VIGO COUNTY SECURITY CENTER

September 5, 2019

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COUNTY COMMISSIONERS

COUNTY COMMISSIONER	BRAD ANDERSON, PRESIDENT
COUNTY COMMISSIONER	JUDY ANDERSON
COUNTY COMMISSIONER	BRENDAN KEARNS
ATTORNEY	MICHAEL WRIGHT

COUNTY COUNCIL

COUNCIL AT LARGE	AARON LOUDERMILK, PRESIDENT
COUNCIL AT LARGE	LISA SPENCE-BUNNETT
COUNCIL AT LARGE	JIM MANN
COUNCIL DISTRICT 1	DAVID THOMPSON
COUNCIL DISTRICT 2	CHRIS SWITZER
COUNCIL DISTRICT 3	VICKI WEGER
COUNCIL DISTRICT 4	MIKE MORRIS

SHERIFF'S OFFICE

SHERIFF	JOHN PLASSE
CHIEF DEPUTY	STEVE MENG
CHIEF OF OPERATIONS	DEREK FELL
JAIL COMMANDER	CHARLES FUNK
JAIL MATRON	CASEY LEE

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DLZ PROJECT NO. 1663-1190-90

DLZ
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SURVEYING • CONSTRUCTION SERVICES

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ARCHITECTURE	SITE DEVELOPMENT	CIVIL	CIVIL (WATER/SANITARY SEWER)	STRUCTURAL	MECHANICAL, PLUMBING, FIRE PROTECTION	ELECTRICAL
ERIC B. RATTS, AIA	JEFF HIRSCH, P.A., LEED AP	MATHEU D. DOYLE	JAMIE L. POCZEKAY	VANESSA REDNOUR	JOSHUA R. APLING, P.E., LEED AP	MARVIN L. HITCHCOCK, P.E.

ELECTRICAL SYMBOLS:

Symbol	Description
* VV USB WP GFCI TV COPIER C-I C-G SUR	DUPLEX RECEPTACLE, 125V, 20A. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F. ASTERISK '*' = VANDALPROOF STYLE RECEPTACLE FACEPLATE. VV = VIDEO VISITATION / IPAD CHARGING STATION, INSTALL DEVICE WITH BOTTOM AT +16" A.F.F. USB = 125V, 20A, USB CHARGING DUPLEX RECEPTACLE. WP = WEATHERPROOF "WHILE-IN-USE" ENCLOSURE. TV = TELEVISION OUTLET, INSTALL DEVICE WITH BOTTOM AT +84" A.F.F. GFCI = GROUND FAULT CIRCUIT INTERRUPTING TYPE DEVICE. COPIER = COPER OUTLET, FIELD VERIFY NEMA CONFIGURATION WITH OWNER PRIOR TO CONSTRUCTION, INSTALL DEVICE WITH BOTTOM AT +16" A.F.F. U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN. C-I = RECEPTACLE INDIVIDUALLY CONTROLLED BY SECURITY ELECTRONIC RELAY CABINET. C-G = RECEPTACLE GROUP CONTROLLED BY SECURITY ELECTRONIC RELAY CABINET. SUR = DEVICE TO BE SURFACE MOUNTED.
	DUPLEX RECEPTACLE, 125V, 20A. INSTALL DEVICE WITH TOP AT +40" A.F.F. U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
	DUPLEX RECEPTACLE ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT, 125V, 20A. INSTALL DEVICE WITH BOTTOM AT +16", A.F.F. RECEPTACLE TO BE COLOR "ORANGE". U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
	DUPLEX RECEPTACLE ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT, 125V, 20A. INSTALL DEVICE WITH TOP AT +40" A.F.F., RECEPTACLE TO BE COLOR "ORANGE". U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
	DUPLEX RECEPTACLE CEILING MOUNTED 125V, 20A. REFER TO SPECIFICATIONS AND DRAWINGS FOR FURTHER DETAILS.
	DUPLEX RECEPTACLE CEILING MOUNTED ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT 125V, 20A. REFER TO SPECIFICATIONS AND DRAWINGS FOR FURTHER DETAILS. RECEPTACLE TO BE COLOR "ORANGE".
	DUPLEX RECEPTACLE FLOOR BOX 125V, 20A. REFER TO SPECIFICATIONS AND DRAWINGS FOR DETAILED ELECTRICAL REQUIREMENTS.
	QUAD RECEPTACLE, 125V, 20A. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F. U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
	QUAD RECEPTACLE, 125V, 20A. INSTALL DEVICE WITH TOP AT +40" A.F.F. U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
	QUAD RECEPTACLE ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT, 125V, 20A. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F. RECEPTACLE TO BE COLOR "ORANGE". U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
	QUAD RECEPTACLE ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT, 125V, 20A. INSTALL DEVICE WITH TOP AT +40" A.F.F. RECEPTACLE TO BE COLOR "ORANGE". U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
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	SPECIAL RECEPTACLE ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT, REFER TO MANUFACTURER REQUIREMENTS. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F., RECEPTACLE TO BE COLOR "ORANGE". U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
J J J	JUNCTION BOX
R	RELAY
a $* WP	TOGGLE SWITCH, 120/277V, 1-POLE, 20A. ASTERISK '*' = VANDALPROOF STYLE DEVICE FACEPLATE. WP=WEATHERPROOF ENCLOSURE, "a" INDICATES SWITCH LEG.
$3a	TOGGLE SWITCH, THREE WAY TYPE, 120/277V, 20A, "a" INDICATES SWITCH LEG.
$4a	TOGGLE SWITCH, FOUR WAY TYPE, 120/277V, 20A, "a" INDICATES SWITCH LEG.
$ Da	DIMMABLE SWITCH, 120/277V, 20A, "a" INDICATES SWITCH LEG.
a OC WG OR a OC WG	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING OR WALL MOUNT COVERAGE OF SENSOR DEPENDENT ON ROOM SIZE, "a" INDICATES SWITCH LEG, "WG" INDICATES WIRE GUARD INCLUDED. POWER PACKS NOT SHOWN - FIELD LOCATE AND RECORD ON RECORD DRAWINGS.
a OC	PIR HIGH BAY OCCUPANCY SENSOR. PROVIDE POWER PACK(S) AS REQUIRED PER MANUFACTURER'S RECOMMENDATION, "a" INDICATES SWITCH LEG.
J C W	4" SQUARE BOX WITH SINGLE GANG ADAPTER FOR MOUNTING EMERGENCY POWER CONTROL MODULE. MOUNT WHERE INDICATED ON PLANS. PROVIDE PERMANENT LABEL ON MODULE FACEPLATE INDICATING ROOM/AREA(S) WHERE CONTROLLED LIGHTS ARE LOCATED. "C" INDICATES DEVICE FLUSH MOUNTED IN CEILING, "W" INDICATES DEVICE FLUSH MOUNTED IN WALL. COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.
* F 135°	ADDRESSABLE FIRE ALARM HEAT DETECTOR. CEILING MOUNT COMBINATION RATE-OF-RISE (15 DEGREES PER MINUTE) AND FIXED TEMPERATURE (135 DEGREES F) AS NOTED IN SPECIFICATION 284621.11. ASTERISK '*' = VANDALPROOF STYLE DEVICE GUARD.
S * P	ADDRESSABLE FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNT. ASTERISK '*' = VANDALPROOF STYLE DEVICE COVER, REFER TO DETAIL #9, DRAWING E-801.
S * P	ADDRESSABLE FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR. WALL MOUNT ON RECESSED DEVICE BOX. ASTERISK '*' = VANDALPROOF STYLE DEVICE COVER, REFER TO DETAIL #9, DRAWING E-801.
S D	ADDRESSABLE FIRE ALARM DUCT MOUNTED SMOKE DETECTOR, HOUSING , AND SAMPLING TUBE ON RETURN SIDE. INTERLOCK WITH DAMPER/FAN MOTOR CONTROL TO SHUTDOWN UNIT UPON DETECTION. PROVIDE AND WIRE AN ILLUMINATED REMOTE TEST STATION INTERLOCKED TO THE EQUIPMENT; CENTRALLY LOCATE IN THE MASTER CONTROL #B1016, LOCATION SHALL BE READILY ACCESSIBILE TO FIREMAN FOR SMOKE MANAGEMENT CONTROL/TESTING.
RTS	ILLUMINATED REMOTE TEST STATION INTERLOCKED TO SHUTDOWN AIR HANDLING EQUIPMENT.
F WP *	NON-ADDRESSABLE FIRE ALARM HORN. WP = WEATHERPROOF STYLE DEVICE. ASTERISK '*' = VANDALPROOF STYLE DEVICE GUARD.
F WP *	NON-ADDRESSABLE FIRE ALARM HORN WITH VISUAL STROBE. WP = WEATHERPROOF STYLE DEVICE. ASTERISK '*' = VANDALPROOF STYLE DEVICE GUARD.
F S *	NON-ADDRESSABLE FIRE ALARM VISUAL STROBE ANNUNCIATOR. ASTERISK '*' = VANDALPROOF STYLE DEVICE GUARD.
F *	ADDRESSABLE FIRE ALARM MANUAL PULL STATION. ASTERISK '*' = VANDALPROOF STYLE DEVICE COVER.
FAAP	REMOTE FIRE ALARM ANNUNCIATOR PANEL.
FACP	FIRE ALARM/DETECTION MAIN CONTROL PANEL.
FA-GAP	FIRE ALARM/DETECTION GRAPHIC ANNUNCIATOR WORKSTATION AND PRINTER.
FA-NAC	FIRE ALARM/DETECTION REMOTE NOTIFICATION APPLIANCE CABINET.
PIV	POST INDICATOR VALVE.
BF	FIRE ALARM MONITOR POINT, BACKFLOW PREVENTOR/PRESSURE INDICATING SWITCH.
TS WP	FIRE ALARM MONITOR POINT, TAMPER SWITCH. WP = WEATHERPROOF STYLE DEVICE.
FS	FIRE ALARM MONITOR POINT, FLOW SWITCH.
ANSUL	KITCHEN HOOD FIRE SUPPRESSION.
IAM WP	FIRE ALARM INTERMEDIATE ADDRESSABLE MODULE. IAM LOOP POWERED BY FACP (SEPARATE POWER SUPPLY NOT REQUIRED UNLESS OTHERWISE INDICATED BY MFR). WP = WEATHERPROOF STYLE DEVICE.
ZAM	ZONE ADDRESSABLE MODULE.
VESDA	VERY EARLY SMOKE DETECTION APPARATUS CONTROL PANEL (SUITABLE UP TO 40 PORTS).
—SD——SD—	"VESDA" SMOKE DETECTION, REFER TO SPECIFICATION 284621.11 FOR DETAILED REQUIREMENTS. DEDICATED TUBE FOR EACH SAMPLING PORT/DETECTOR.
S * V	VESDA ASPIRATING SMOKE DETECTOR SAMPLING PORT. FLUSH MOUNT, TAMPER-RESISTANT SAMPLING PORT. ASTERISK '*' = VANDALPROOF STYLE DEVICE COVER, REFER TO DETAIL #9, DRAWING E-801.
F/SD	FIRE AND SMOKE DAMPER. REFER TO DETAIL #7 ON DRAWING E-801.
CO	CARBON MONOXIDE GAS DETECTION SENSOR BY OTHERS.
NO2	NITROGEN DIOXIDE GAS DETECTION SENSOR BY OTHERS.
HLI	HIGH-LEVEL-INTERFACE BOX FOR VESDA COMMUNICATION NETWORK. LOCATED ADJACENT TO EACH AIR SAMPLING SMOKE DETECTOR ALARM/MONITORING PANEL. (OR ALTERNATIVELY WHERE FACP-1 IS NOT SUPPORTED BY THE VESDA COMMUNICATIONS NETWORK, PROVIDE ZAM(S) AT EACH VESDA AIR SAMPLING SMOKE DETECTOR ALARM/MONITORING CABINET FOR ALARMING/MONITORING AS NOTED IN SPECIFICATION SECTION 284621.11 AND/OR AS OTHERWISE NOTED.
PWR	POWER SUPPLY CABINET WITH BATTERY CHARGER/BATTERIES (120VAC INPUT POWER, 24VDC OUTPUT POWER). LOCATED ADJACENT TO EACH AIR SAMPLING SMOKE DETECTOR ALARM/MONITORING PANEL.
*	COMBINATION CAT 6 TELEPHONE (VOIP)/DATA 2-PORT OUTLET SINGLE GANG. FOR EACH DEVICE 1-DATA/1-TELEPHONE (VOIP) JACK WITHIN THAT MUTOA. INSTALL WITHIN A 4" x 4" EXTRA DEEP BOX. PROVIDE (2) CAT 6 CABLES U.O.N. INSTALL DEVICE WITH BOTTOM AT +16" AFF., U.O.N. ASTERISK '*' = VANDALPROOF STYLE DEVICE FACEPLATE.
* +48"	CAT 6 TELEPHONE (VOIP) 1-PORT OUTLET SINGLE GANG. PROVIDE A WALL TELEPHONE FACEPLATE WITH MOUNTING STUDS FOR MOUNTING PHONE HANDSET ON FACEPLACE. INSTALL DEVICE AT +48" AFF., U.O.N. PROVIDE (1) CAT 6 CABLE U.O.N. ASTERISK '*' = VANDALPROOF STYLE DEVICE FACEPLATE.
* TCS	TABLE CHARGING STATION SINGLE GANG 2-PORT DATA OUTLET. FOR EACH DEVICE 2-DATA JACKS WITHIN THAT MUTOA. INSTALL WITHIN A 4" x 4" EXTRA DEEP BOX. PROVIDE (2) CAT 6 CABLES U.O.N. ASTERISK '*' = VANDALPROOF STYLE DEVICE FACEPLATE COORDINATE EXACT LOCATION WITH OWNER PROVIDED EQUIPMENT.
PROJ	PROJECT INPUT 3-PORT OUTLET SINGLE GANG. FOR EACH DEVICE 1-DATA/TELEPHONE (VOIP) JACK, 1-USB JACK AND 1-HDMI INTERFACE WITHIN THAT MUTOA. INSTALL WITHIN A 4" x 4" EXTRA DEEP BOX. PROVIDE (1) CAT 6 CABLE, (1) PRE-TERMINATED USB CABLE AND (1) PRE-TERMINATED HDMI CABLE BETWEEN CEILING INTERFACE LOCATION AND ASSOCIATED WALL INTERFACE LOCATION IN 1-1/4"C. INSTALL WALL DEVICE AT +16" AFF, U.O.N.
* USB	COMBINATION TELEPHONE (VOIP)/DATA 2-PORT OUTLET SINGLE GANG. FOR EACH DEVICE 1-DATA/TELEPHONE (VOIP) JACK AND (1) USB JACK WITHIN THAT MUTOA. INSTALL WITHIN A 4" x 4" EXTRA DEEP BOX. PROVIDE (1) CAT 6 CABLE AND (1) USB CABLE U.O.N. ASTERISK '*' = VANDALPROOF STYLE DEVICE FACEPLATE INSTALL DEVICE WITH BOTTOM AT +16" AFF., U.O.N
+84" * TV	COMBINATION TELEVISION/DATA 2-PORT OUTLET SINGLE GANG. FOR EACH DEVICE 1-DATA/1-TELEVISION JACK WITHIN THAT MUTOA. INSTALL WITHIN A 4" x 4" EXTRA DEEP BOX. PROVIDE (1) CAT 6 CABLE AND (1) COAX CABLE INSTALL DEVICE AT +84" AFF., U.O.N ASTERISK '*' = VANDALPROOF STYLE DEVICE FACEPLATE.
* HD	(1) HDMI INTERFACE OUTLET. PROVIDE 2-GANG BOX WITH ADAPTER RING FOR SINGLE GANG PLATE AND 1-1/4" EMT UP ABOVE CEILING AND STUBBED OUT WITH BUSHING. INSTALL DEVICE AT HEIGHT INDICATED ON PLANS. FURNISH AND INSTALL PRE-TERMINATED HDMI CABLE BETWEEN LAPTOP/COMPUTER INTERFACE MUTOA AND TV INTERFACE MUTOA WITH 1"C. AS INDICATED ON PLANS. INSTALL DEVICE WITH BOTTOM AT +16" AFF., U.O.N ASTERISK '*' = VANDALPROOF STYLE DEVICE FACEPLATE.
* VV	VIDEO VISITATION 2-PORT DATA OUTLET, SINGLE GANG. FOR EACH DEVICE 1-DATA JACK WITHIN THAT RECEPTACLE. INSTALL WITHIN A 4" x 4" EXTRA DEEP BOX. PROVIDE (1) CAT 6 CABLES U.O.N. ASTERISK '*' = VANDALPROOF STYLE DEVICE FACEPLATE DEVICE TO BE LOCATED BEHIND VIDEO VISITATION MONITOR, VERIFY EXACT LOCATION BEFORE ROUGH-IN.
* POTS	PLAIN OLD TELEPHONE SYSTEM OUTLET. PROVIDE (1) CAT 6 CABLE WITH (1) RJ11 JACK. INSTALL DEVICE WITH BOTTOM AT +16" AFF., U.O.N. ASTERISK '*' = VANDALPROOF STYLE DEVICE FACEPLATE.
	CONDUIT CONCEALED IN GROUND OR FLOOR.
	CONDUIT TURN UP AND TURN DOWN RESPECTIVELY.
A L1# a	LIGHT FIXTURE. "A" INDICATES FIXTURE TYPE. "a" INDICATES SWITCH LEG. "L1#" INDICATES CIRCUIT NUMBER FIXTURE IS CONNECTED TO. REFER TO LIGHT FIXTURES SCHEDULE ON DRAWING E-604.
A L1# a	LIGHT FIXTURES WITH HALF SOLID SHADING INDICATES FIXTURE IS USED FOR EMERGENCY EGRESS LIGHTING. "A" INDICATES FIXTURE TYPE N.L. = NIGHT LIGHT, CONTINUOUS OPERATION, NON-CONTROLLED. EM = FIXTURE SUPPLIED WITH EMERGENCY POWER CONTROL MODULE, CONTROLLED. REFER TO LIGHT FIXTURE SCHEDULE ON DRAWING E-604.
PC	PHOTOCELL
	POE WIRELESS ACCESS POINT (WAP). PROVIDE TWO (2) CAT 6A CABLES PER IEEE 802.11ac. CEILING MOUNT AND/OR SURFACE/FLUSH MOUNT AS INDICATED ON DRAWINGS.
	DISTRIBUTION PANELBOARD, SEE SCHEDULE FOR DETAILED REQUIREMENTS.
	PANELBOARD, SEE SCHEDULE FOR DETAILED REQUIREMENTS.
	NON-FUSED DISCONNECT SWITCH, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
	FUSED DISCONNECT SWITCH, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
	NON-COMBINATION STARTER, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
	COMBINATION STARTER/DISCONNECT, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
	VARIABLE FREQUENCY DRIVE, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
	VARIABLE FREQUENCY DRIVE AND DISCONNECT COMBINATION, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
3	NON-COMBINATION MAGNETIC MOTOR STARTER NUMBER INDICATES NEMA RATING, SIZE 1 U.O.N.
	MOTOR.
FD	SMOKE DAMPER. CONNECT TO LEGALLY REQUIRED 120VAC BRANCH CIRCUIT. DAMPER SHALL OPEN UPON ENERGIZATION (OR FAIL CLOSED UPON DE-ENERGIZATION). POWER TO SMOKE DAMPER(S) ASSOCIATED WITH AHU SHALL BE CONTROLLED BY THE FIRE ALARM CONTROL PANEL - I.E. THE 120VAC CIRCUIT SHALL BE WIRED VIA DRY, FORM C ISOLATION CONTACT (IN THE IAM). UPON DUCT DETECTOR SMOKE DETECTION AT AHU, ASSOCIATED DAMPER(S) SHALL CLOSE (BE DE-ENERGIZED). REFER TO DETAIL 7 ON DRAWING E-801 FOR SMOKE DAMPER WIRING DETAIL. REFER TO DRAWINGS E-203 AND E-204 FOR LOCATIONS OF AHU(S) REQUIRING DUCT SMOKE DETECTOR(S).
P	PULLBOX.
	BRANCH CIRCUIT HOME-RUN SYMBOLOGY: SOLID CIRCLE INDICATES GROUND CONDUCTOR LONG LINE INDICATES NEUTRAL CONDUCTOR(S) SHORT LINE INDICATES PHASE CONDUCTOR(S)
	OVERHEAD DOOR SAFETY INTERLOCKS. REFER TO SPECIFICATION 083613 FOR MORE INFORMATION.
	LOCAL KEYED OPEN-STOP-CLOSE OVERHEAD SECTIONAL DOOR PUSHBUTTON CONTROL STATION. REFER TO SPECIFICATION 083613 "SECTIONAL DOORS" FOR DETAILED REQUIREMENTS. INSTALL DEVICE AT +48" AFF U.O.N.
GAA	GENERATOR REMOTE ALARM ANNUNCIATOR PANEL.
	BUILDING OR TELECOMM GROUND BUS BAR. REFER TO DETAILS #2 AND #3 ON DRAWING E-803.
*	ASTERISK '*' = VANDALPROOF STYLE DEVICE.

ELECTRICAL SITE LEGEND:

Symbol	Description
— —BC— —	DIRECT BURIED CONDUIT FOR COMMUNICATIONS CABLES.
— —BE— —	DIRECT BURIED CONDUIT FOR ELECTRICAL POWER CABLES.
— —BFO— —	DIRECT BURIED CONDUIT FOR SECURITY FIBER OPTIC CABLES.
— —G— —	DIRECT BURIED GROUND CONDUCTOR.
HH-E1	ELECTRICAL HANDHOLE 'HH-E1' INDICATES ELECTRICAL HANDHOLE #1 'HH-C1' INDICATES COMMUNICATION HANDHOLE #1
SA	SITE LIGHTING FIXTURE/POLE. 'SA' INDICATES FIXTURE TYPE. REFER TO LIGHT FIXTURE SCHEDULE ON DRAWING E-604.

ONE-LINE DIAGRAM SYMBOLS:

Symbol	Description
PANEL 200 AMP 120/208V 3∅, 4W MLO	MAIN LUG ONLY PANELBOARD. "PANEL" INDICATES PANEL DESIGNATION. "120/208" INDICATES PANEL OPERATING VOLTAGE. "3∅, 4W" INDICATES PHASE AND WIRE. "200A 3P" INDICATES 3 POLE MAIN LUGS AND BUS RATED FOR 200A.
PANEL 200 AMP 120/208V 3∅, 4W MCB	MAIN CIRCUIT BREAKER PANELBOARD. "PANEL" INDICATES PANEL DESIGNATION. "120/208" INDICATES PANEL OPERATING VOLTAGE. "3∅, 4W" INDICATES PHASE AND WIRE. "200A 3P" INDICATES 3 POLE MAIN LUGS AND BUS RATED FOR 200A.
200/200	FUSED SWITCH. TOP NUMBER INDICATES SWITCH RATING IN AMPERES. BOTTOM NUMBER INDICATES FUSE RATING IN AMPERES.
200AT/200AF 80% RATED LSIG SS	THERMAL MAGNETIC CIRCUIT BREAKER. TOP NUMBER INDICATES TRIP RATING IN AMPERES. BOTTOM NUMBER INDICATES FRAME RATING IN AMPERES. "80% RATED" INDICATES BREAKER RATING. "LSIG" INDICATES BREAKER WITH ADJUSTABLE LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT TRIP SETTINGS. "SS" INDICATES SOLID STATE, 3-POLE, U.O.N.
	BUS BAR.
	FEEDER CIRCUIT.
20	MOTOR WITH HORSEPOWER INDICATED.
208V 30KVA 208/120 K13	TRANSFORMER. PRIMARY VOLTAGE, SECONDARY VOLTAGE, RATING IN KVA AS INDICATED. K FACTOR AS INDICATED.
	GROUND.
100A	NON-FUSED DISCONNECT SWITCH. NUMBER INDICATES RATING IN AMPERES.
	ENCLOSURE OUTLINE.
100	CABLE/CONDUIT NUMBER.
N E L	AUTOMATIC TRANSFER SWITCH
SB	SWITCHBOARD

ABBREVIATIONS:

A	AMPERES	MC	MECHANICAL CONTRACTOR
AF	AMPERE FRAME	MCA	MINIMUM CIRCUIT AMPACITY
AFC	ABOVE FINISHED COUNTER	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MDF	MAIN DISTRIBUTION FRAME
AIC	AMPERES INTERRUPTING CAPACITY	MFR	MANUFACTURER
AT	AMPERE TRIP	MLO	MAIN LUG ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MOCP	MAXIMUM OVERCURRENT PROTECTION
AWG	AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH
BACnet	BUILDING AUTOMATION AND CONTROL NETWORKING PROTOCOL	MUTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
BE	BURIED ELECTRIC	NEC	NATIONAL ELECTRICAL CODE
BFG	BELOW FINISH GRADE	NL	NON-SWITCHED NIGHT LIGHT
BFO	BURIED FIBER OPTIC	NO2	NITROGEN DIOXIDE
BMS	BUILDING MANAGEMENT SYSTEM	NO/NC	NORMALLY OPEN/NORMALLY CLOSED
BSMT	BASEMENT	NTRL	NEUTRAL
BT	BURIED TELEPHONE	NTS	NOT TO SCALE
C	CONDUIT	OCP	OVERCURRENT PROTECTIVE DEVICE
CAT	CATEGORY	OCPD	OVERCURRENT PROTECTIVE DEVICE
CATV	CABLE TELEVISION/COMMUNITY ANTENNA TELEVISION	OL	OVERLOADS
		P	POLE
CB	CIRCUIT BREAKER	PC	PERSONAL COMPUTER
CO	CARBON MONOXIDE	PH	PHASE
DED	DEDICATED	POE	POWER OVER ETHERNET
DFA	DROP FROM ABOVE	POTS	PLAIN OLD TELEPHONE SYSTEM
DIV	DIVISION	∅	PHASE
D.S	DISCONNECT SWITCH	RCPT	RECEPTACLE
ETR	EXISTING TO REMAIN	RECEPT	RECEPTACLE
EX	EXISTING TO REMAIN	RLA	RUNNING LOAD AMPERES
EC	ELECTRICAL CONTRACTOR	RM.	ROOM
(F)	FUTURE	SE	SERVICE ENTRANCE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SP.	SPARE
FACP	FIRE ALARM CONTROL PANEL	SPEC	SPECIFICATIONS
FLA	FULL LOAD AMPERES	SS	SOLID STATE (ELECTRONIC) BREAKER
F/SD	FIRE/SMOKE DAMPER	SSOL	SOLID STATE OVERLOADS
G	GROUND	ST	SAFETY TYPE
GFI	GROUND FAULT INTERRUPT	SW	SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPT	TBI	TO BE INSTALLED
GRND	GROUND	TBR	TO BE REMOVED
HDMI	HIGH DEFINITION MULTIMEDIA	TCC	TEMPERATURE CONTROLS CONTRACTOR
HMI	HUMAN MACHINE INTERFACE	TTB	TELEPHONE TERMINAL BOARD
HOA	HAND OFF AUTOMATIC	TV	TELEVISION
HLOA	HIGH LOW OFF AUTOMATIC	TWSHPR	TWISTED SHIELDED PAIR
HNDLR	HANDLER	TWPR	TWISTED PAIR
IAM	INTERMEDIATE ADDRESSABLE MODULE	TYP.	TYPICAL
IDF	INTERMEDIATE DISTRIBUTION FRAME	UON	UNLESS OTHERWISE NOTED
IP	INTERNET PROTOCOL	UPS	UNINTERRUPTABLE POWER SOURCE
KAIC	KILO-AMPERES INTERRUPTING CAPACITY	USB	UNIVERSAL SERIAL BUS
KVA	KILO-VOLT-AMPS	V	VOLTS
KW	KILOWATTS	VESDA	VERY EARLY SMOKE DETECTION APPARATUS
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND	VFD	VARIABLE FREQUENCY DRIVE
LTG	LIGHTING	VOIP	VOICE OVER INTERNET PROTOCOL
MATV	MASTER ANTENNA TELEVISION	W	WIRE
		WAP	WIRELESS ACCESS POINT
		WP	WEATHERPROOF
		ZAM	ZONE ADDRESSABLE MODULE

GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC. ALL DIMENSIONS SHOWN ARE APPROXIMATE. ALL LOCATIONS SHALL BE FIELD VERIFIED.

B. ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION ADOPTED BY INDIANA, THE INDIANA ELECTRICAL CODE AMENDMENTS, LOCAL/MUNICIPAL CODES, AND THE AUTHORITY HAVING JURISDICTION.

C. ALL CONNECTIONS TO EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, NOT LESS THAN 12" IN LENGTH, NOR GREATER THAN 36" IN LENGTH.

D. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED WITH THE APPROPRIATE FIRE STOPPING MATERIAL TO MAINTAIN WALL FIRE RATING. SEE ARCHITECTURAL DRAWING #A-051 FOR FIRE RATED WALL LOCATIONS.

E. SEE MECHANICAL AND PLUMBING SCHEDULES FOR MECHANICAL EQUIPMENT RATINGS AND SIZES.

F. ALL 120V POWER AND LIGHTING CIRCUITS SHALL BE MINIMUM (2)#12, AND (1) #12 G, IN 3/4" CONDUIT UNLESS OTHERWISE NOTED. ALL BRANCH CIRCUIT WITH 20A AND BELOW BREAKER(S) SHALL USE THE FOLLOWING MINIMUM CABLE SIZE TO ACCOMMODATE VOLTAGE DROP UNLESS OTHER WISE NOTED: LESS THAN 100'-0": #12 AWG; 100'-0" TO 170'-0": #10 AWG; 170'-0" TO 250'-0": #8 AWG.

G. ALL CONTROL WIRING SHALL BE NOT LESS THAN (2) #14, (1) #14G, 3/4"C, UON.

H. ALL CABLES INSTALLED IN AIR HANDLING PLENUMS SHALL BE PLENUM RATED CABLE.

I. HOME RUNS SHALL NOT BE COMBINED IN A RACEWAY UNLESS SHOWN ON THE CONTRACT DRAWINGS. SINGLE PHASE BRANCH CIRCUIT HOME RUNS MAY BE COMBINED AT THE CONTRACTOR'S DISCRETION NOT GREATER THAN (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, AND REQUIRED GROUNDING CONDUCTOR(S). CONTRACTOR MUST INCREASE WIRE SIZE AND DERATE CONDUCTOR CAPACITY ACCORDING TO NEC.

J. EACH SINGLE PHASE BRANCH CIRCUIT CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL BACK TO THE PANELBOARD.

K. SUPPORTING WIRE FOR THE SUSPENDED CEILING GRID SHALL NOT BE USED AS RACEWAY SUPPORT.

L. DISCONNECT SWITCH RATINGS SHALL BE AS INDICATED ON THE DRAWINGS.

M. MAJOR FEEDERS FROM THE SWITCHBOARD TO PANELBOARDS, TRANSFORMERS, MOTORS AND OTHER LARGE EQUIPMENT ARE NOT SHOWN ON THE FLOOR PLAN DRAWINGS. THESE FEEDERS ARE INCLUDED WITHIN THE SCOPE OF THE ELECTRICAL WORK AND ARE SHOWN ON THE ONE-LINE DIAGRAMS.

N. ALL FIRE ALARM CABLING SHALL BE RED, PLENUM RATED, AND INSTALLED IN RED CONDUIT. ALL ASSOCIATED JUNCTION/PULL BOXES SHALL BE "RED".

O. HVAC CONTROL WIRING FURNISHED AND INSTALLED BY OTHERS. PROVIDE POWER TO EACH TEMPERATURE CONTROL PANELS AND EQUIPMENT AS INDICATED ON PLANS.

P. INDOOR CONTROL EQUIPMENT ENCLOSURES SHALL BE NEMA 1 RATED U.O.N. ALL EXTERIOR ENCLOSURES SHALL BE NEMA 3R UNLESS OTHERWISE NOTED. ALL ENCLOSURES LOCATED IN KITCHEN SHALL BE NEMA 4X STAINLESS STEEL UNLESS OTHERWISE NOTED.

Q. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH EXPANSION FITTINGS, UNLESS THE CONDUIT IS BELOW SLAB IN THE COMPACTED GRANULAR FILL. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. REFER TO STRUCTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.

R. THE CONTRACTOR SHALL COORDINATE RECEPTACLE HEIGHTS AND LOCATIONS WITH THE CASEWORK SHOP DRAWINGS TO DETERMINE EXACT LOCATIONS AND HEIGHTS FOR OUTLET INSTALLATION. REFER TO SHEET A-003 FOR ADA MOUNTING HEIGHTS FOR WIRING DEVICES. FIELD VERIFY EXACT HEIGHTS FOR WIRING DEVICES PRIOR TO CONSTRUCTION AND INSTALL IN ACCORDANCE WITH ADA REQUIREMENTS.

S. CONTROL WIRING FOR HVAC EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. PROVIDE POWER TO EQUIPMENT AS INDICATED ON PLANS.

T. TO REDUCE NOISE BETWEEN WALLS, CONTRACTOR SHALL:
1. AVOID INSTALLING POWER RECEPTACLES OR DATA OUTLETS LOCATED BACK TO BACK.
2. WHERE OUTLETS ARE REQUIRED TO BE LOCATED BACK TO BACK CONTRACTOR SHALL PROVIDE SOUNDPROOFING MATERIAL BETWEEN JUNCTION BOXES (AND FIRE RATED PUTTY AROUND JUNCTION BOXES FOR FIRE RATED WALLS).

U. THE WORD "PROVIDE" IS TO BE DEFINED AS "FURNISH AND INSTALL".

V. ALL ELECTRICAL DEVICES IN RECREATION ROOMS TO BE PROVIDED WITH WIREGUARD UNLESS INSTALLED IN CUSTOM BOX.

W. COORDINATE VIDEO VISITATION REQUIREMENTS WITH OWNER'S VIDEO VISITATION VENDOR BEFORE CONSTRUCTION. FURNISH AND INSTALL POWER AND SYSTEMS CABLING AS REQUIRED. PROVIDE WIRIGN DEVICES, BOXES, RACEWAYS, CABLING, SUPPORTS, ETC. AS REQUIRED.

X. THE TRADE CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PENETRATIONS WITH STRUCTURAL DRAWING REQUIREMENTS. ADDITIONALLY, THE TRADE CONTRACTOR SHALL COORDINATE ALL PENETRATIONS REQUIRED THROUGH PRECAST CONCRETE UNITS WITH THE HOLLOW CORE PRECAST CONCRETE MANUFACTURER TO PRODUCE A SHOP DRAWING SUBMITTAL NOTING ALL PENETRATIONS AND THEIR SIZES. TRADE CONTRACTOR AND PRECAST MANUFACTURER SHALL PROVIDE DOCUMENTATION WITH SHOP DRAWING SUBMITTAL INDICATING THAT ALL TRADES HAVE SIGNED OFF ON ALL AFOREMENTIONED COORDINATION. IN ADDITION, ANCHORING TO HOLLOW CORE PRECAST SHALL BE APPROVED AND SIGNED OFF BY ALL TRADES.

Y. ALL DEVICES SURFACE MOUNTED ON BOTTOM OF PRECAST HOLLOW-CORE CEILING SHALL BE SUPPLIED FROM ABOVE. EXPOSED CONDUITS OR WIREMOLD SHALL NOT BE INSTALLED ON, OR ANCHORED TO, THE BOTTOM OF PRECAST HOLLOW-CORE CEILING. BOXES SHALL BE ACCESSIBLE FROM BELOW PRECAST HOLLOW CORE.

Z. CONDUITS SHALL NOT BE ROUTED IN OR THROUGH, OR ANCHORED TO, THE PRECAST HOLLOWCORE CEILING. FIELD COORDINATE PRIOR TO CONSTRUCTION WITH PRECAST VENDOR TO DETERMINE DROP-IN ANCHOR LOCATIONS FOR MOUNTING OF RACEWAYS OR OTHER ELECTRICAL ITEMS UNDERNEATH THE PRECAST HOLLOWCORE CEILING. REFER TO DRAWING S-500, DETAIL #7.

AA. ADJUST DEVICE BOX MOUNTING HEIGHT TO TOP OR BOTTOM OF BLOCK COURSING AS NEEDED SO BOXES DO NOT CROSS A MORTAR JOINT.

BB. SECURITY CAULKING/SEALANT SHALL BE INSTALLED IN CREVICES IN ALL DETENTION SPACES (I.E. AROUND DEVICE PLATES, LIGHTING FIXTURES, ETC.). REFER TO SPECIFICATION 079200 FOR DETAILED REQUIREMENTS. A CREVICE SHALL BE CONSIDERED SPACE WHERE A RAZOR BLAD COULD BE CONCEALED/STORED OR AS OTHERWISE DETERMINED BY ENGINEER/ARCHITECT PRIOR TO CONSTRUCTION COMPLETION.

CC. TORX HEAD SCREWS WITH A CENTER PIN SHALL BE INSTALLED IN ALL DETENTION SPACES (I.E. DEVICE FACEPLATES, LIGHTING FIXTURE ACCESS PLATES, ETC.). REFER TO SPECIFICATION 050553 FOR DETAILED REQUIREMENTS.

DD. PER NEC ARTICLE 700, "LEGALLY REQUIRED", "EMERGENCY", "OPTIONAL" AND "UPS" POWERED CIRCUITS SHALL BE ROUTED IN SEPARATE CONDUITS FROM ONE ANOTHER. PAINT COVER OF JUNCTION BOXES FOR "OPTIONAL" CIRCUITS SILVER. PAINT COVER OF JUNCTION BOXES FOR "EMERGENCY" CIRCUITS PURPLE. PAINT COVER OF "LEGALLY" REQUIRED CIRCUITS ORANGE. PAINT COVER OF JUNCTION BOXES FOR "UPS" CIRCUITS YELLOW.

EE. ALL DEVICES IN FINISHED AREAS SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.

FF. SMOKE CONTROL SYSTEM SHALL BE CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM (BMS). FIRE ALARM CONTROL PANEL SHALL COMMUNICATE SMOKE DETECTION AND ALARMING WITH BMS USING BACnet COMMUNICATION PROTOCOL VIA UL 864 COMPLIANT COMMUNICATION DEVICES AND ACCESSORIES.

GG. PROVIDE A "VESDA" SMOKE DETECTOR HEAD INSIDE EACH OF THE RETURN DUCTS LEADING FROM EACH SLEEPING CELL (I.E. CELL WITH A BED). THESE CELLS SHALL BE INDIVIDUALLY MONITORED (ADDRESSABLE) AT THE "VESDA" SMOKE DETECTION PANEL. ROUTE "VESDA" AIR SAMPLING TUBING FROM EACH DETECTOR HEAD BACK TO THE "VESDA" SMOKE DETECTION PANEL. PER FIRE ALARM SPECIFICATION, PROVIDE ADDRESSABLE RELAY(S) FOR EACH OF THE 40 +/- TUBING PORTS LOCATED IN THE "VESDA" SMOKE DETECTION PANEL (ALTERNATIVELY, PROVIDE COMMUNICATION PROTOCOL WITH WIRING BACK TO THE FIRE ALARM CONTROL PANEL; PROTOCOL SELECTED SHALL BE COMPATIBLE WITH FIRE ALARM CONTROL PANEL).

HH. FURNISH AND INSTALL ELECTRICAL CONNECTIONS AS REQUIRED FOR ALL EQUIPMENT IN KITCHEN, LAUNDRY AND MEDICAL/DENTAL AREA THAT REQUIRE POWER. CONFIRM POWER REQUIREMENTS WITH EQUIPMENT PROVIDER. FURNISH AND INSTALL BOXES, RACEWAYS, CABLING, SUPPORTS, DISCONNECTS, STARTERS, ETC. AS REQUIRED.

II. FURNISH AND INSTALL ELECTRICAL CONNECTION AS REQUIRED FOR ALL SECURITY ELECTRONICS, MECHANICAL AND COMMUNICATIONS EQUIPMENT THAT REQUIRE POWER. CONFIRM POWER REQUIREMENTS WITH EQUIPMENT PROVIDER. PROVIDE CONNECTION TO POWER PANEL IN ROOM/AREA AS NEEDED. FURNISH AND INSTALL BOXES, RACEWAYS, CABLING, SUPPORTS, DISCONNECTS, STARTERS, ETC. AS REQUIRED.

JJ. SEISMIC REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS: SITE CLASS: D; BUILDING RISK CATEGORY: III; SEISMIC DESIGN CATEGORY: C; COMPONENT IMPORTANCE FACTOR: 1.5; AMPLIFICATION FACTORS AND COMPONENT RESPONSE MODIFICATION FACTORS: AS REQUIRED IN ASCE 7-10 TABLE 13.6.-1 (MECHANICAL AND ELECTRICAL) FOR COMPONENTS AND RACEWAYS AND SUPPORTS. REFER TO ELECTRICAL SPECIFICATION 260548.16 SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS. REFER TO ELECTRICAL SPECIFICATIONS FOR SEISMIC REQUIREMENTS FOR ELECTRICAL EQUIPMENT, SUPPORTS, ETC.

KK. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE APPROVED BY ENGINEER ON A CASE-BY-CASE BASIS.

LL. RACK MOUNTED HEAD-END EQUIPMENT (I.E. SWITCHES, PATCH CABLES, UPSs, SURGE PROTECTORS FOR MAIN DISTRIBUTION FRAME (MDF) AND INTERMEDIATE DISTRIBUTION FRAMES SAHLL BE FURNISHED AND INSTALLED BY CONTRACTOR. PATCH PANELS, RACKS, AND RACK MOUNTING/RACK POWER DISTRIBUTION ACCESSORIES SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.

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DLZ INDIANA, LLC

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PROFESSIONAL ENGINEER
Marvin L. Hitchcock

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

GENERAL NOTES, SYMBOLS & ABBREVIATIONS

DRAWING NUMBER
E-001
ELECTRICAL

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GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE DRAWING E-606.

B. (TYPICAL) CONDUIT DEPTH SHALL BE A MINIMUM 3'-0" BFG (I.E. BELOW FROSTLINE) U.O.N., COORDINATE DEPTH WITH PAVING DETAILS.

C. ELECTRIC UTILITY COMPANY IS DUKE ENERGRY, CONTACT: TYLER ANGLE - PHONE: 812-231-8721 - EMAIL: Tyler.Angle@duke-energy.com.

D. REFER TO SITE-CIVIL DRAWINGS FOR TELEPHONE AND COMMUNICATIONS COMPANY CONTACT INFORMATION

E. USE RIGID GALVANIZED SLEEVES UNDER VEHICLE TRAFFIC AREAS. EXTEND SLEEVES 5'-0" BEYOND THE PAVED VEHICLE TRAFFIC AREAS.

F. CONTRACTOR SHALL FIELD COORDINATE (ON-SITE) PRIOR TO CONSTRUCTION WITH ELECTRIC UTILITY, TELEPHONE UTILITY AND CABLE TV UTILITY TO FIELD COORDINATE EXACT UTILITY REQUIREMENTS.

G. REFERENCE DRAWING SD-401 FOR LOCATIONS OF INCOMING UTILITIES.

H. ROUTINGS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT ROUTINGS WITH SITE CIVIL CONTRACTOR, PRIOR TO CONSTRUCTION, TO AVOID UNDERGROUND UTILITIES, OBSTACLES, ETC. AS REQUIRED.

I. REFER TO SITE CIVIL PLANS FOR UNDERGROUND UTILITIES, PIPING, STRUCTURES, RIGHT OF WAYS, PROPERTY LINES, ETC.

J. CONTRACTOR SHALL PATCH AND REPAIR ALL SURFACES DISTURBED TO MATCH NEW, ADJACENT SURFACES UNLESS OTHERWISE NOTED. FIELD COORDINATE UNDERGROUND ROUTINGS WITH STIE CIVIL CONTRACTOR, PRIOR TO CONSTRUCTION, TO MINIMIZE PATCH AND REPAIR WORK.

K. BURY GROUNDING ELECTRODE CABLE A MINIMUM OF 30" B.F.G. PER NEC.

L. BURY COMMUNICATIONS CONDUITS A MINIMUM OF 3'-0" BFG (I.E. BELOW FROSTLINE) U.O.N.

M. PRIOR TO CONSTRUCTION, COORDINATE WITH CIVIL CONTRACTOR WHERE NECESSARY TO PROVIDE FINAL GRADING COVER AT POLE BASE FOUNDATIONS, BURIED CONDUITS, ETC. FOR SUFFICIENT GROUND COVER WHERE TOPOGRAPHY DROPS OFF STEEPLY AT EDGES OF ROADWAYS FOR DETENTION BASINS, ETC.

N. FOR DIRECT BURIED CONDUIT DETAIL, REFER TO SHEET E-XXX, DETAIL X.

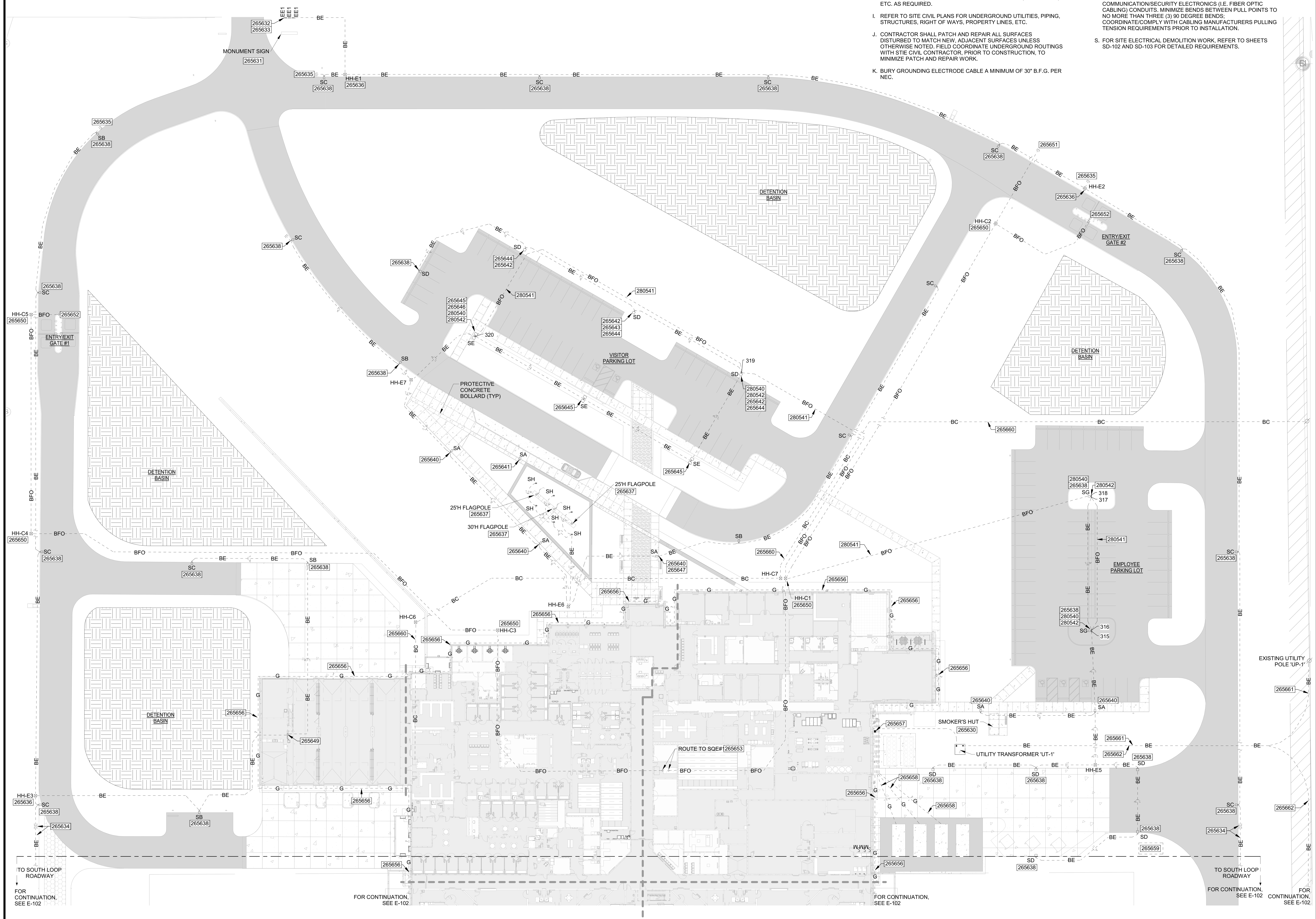
O. ORIENT LIGHTING POLES HANDHOLES ON THE OPPOSITE SIDE (NON-TRAFFIC SIDE) OF PAVED ROADWAYS/PARKING AREAS U.O.N.

P. FOR BUILDING EXTERIOR, PERIMETER/COURTYARD/CANOPY LIGHTING, REFER TO SHEET E-301-A THROUGH E-301-E. ALSO REFER TO ARCHITECTURAL FACADE ELEVATION PLANS.

Q. REFER TO SECURITY ELECTRONICS DRAWINGS FOR DETAILED SECURITY ELECTRONICS (SE) CABLING REQUIREMENTS FOR SE CONDUIT ROUTINGS INDICATED THIS SHEET (I.E. FIBER OPTIC CABLING FOR CAMERAS, CARD READERS, INTERCOMS, ETC). REFER TO SHEET ES-300 AND ES-301 FOR SE RISER DIAGRAMS AND SHEET ES-400 FOR SE CABLE SCHEDULE.

R. CONTRACTOR SHALL USE LONG RADIUS BENDS FOR ALL COMMUNICATION/SECURITY ELECTRONICS (I.E. FIBER OPTIC CABLING) CONDUITS. MINIMIZE BENDS BETWEEN PULL POINTS TO NO MORE THAN THREE (3) 90 DEGREE BENDS; COORDINATE/COMPLY WITH CABLING MANUFACTURERS PULLING TENSION REQUIREMENTS PRIOR TO INSTALLATION.

S. FOR SITE ELECTRICAL DEMOLITION WORK, REFER TO SHEETS SD-102 AND SD-103 FOR DETAILED REQUIREMENTS.



1 E-101 ELECTRICAL SITE PLAN (NORTH)
SCALE: 1" = 30'-0"
NORTH

SITE KEYNOTES

2656##

265630 SMOKERS HUT SHALL BE NON-ILLUMINATED (LIGHTING/POWER FOR HUT SHALL NOT BE REQUIRED).

265631 ILLUMINATE NORTH FACE OF MONUMENT SIGN. REFER TO DETAIL 3 ON SHEET SD-803 FOR SIGN DETAILS.

265632 SURFACE MOUNT TYPE 'EE1' LIGHTING FIXTURES ON TOP OF CONCRETE FOUNDATION. FOR LIGHTING INSTALLATION AND CONCRETE FOUNDATION DETAILS, SEE SHEET E-806 DETAILS 9 & 10. EMBEDDED JUNCTION BOX SHALL BE LOCATED FOR A CONCEALED WIRING CONNECTION. FOLLOW MANUFACTURER INSTRUCTIONS FOR EXACT PLACEMENT OF BOX PRIOR TO CONSTRUCTION OF THE FOUNDATION.

265633 LOCATE THE CENTERLINE OF TYPE 'EE1' FIXTURES 12'-0" FROM THE FRONT (NORTH) FACE OF THE MONUMENT SIGH. FIELD AIM TYPE 'EE1' LIGHTING FIXTURES TO PROVIDE EVEN ILLUMINATION OF THE ENTIRE FACE OF THE MOMUMENT SIGN. FIELD AIM EACH FIXTURE AT THE CENTER HEIGHT OF THE LOWER PORTION OF THE SIGN FOR INITIAL AIMING; FIELD ADJUST AS NECESSARY TO OBTAIN EVEN ILLUMINATION ON THE ENTIRE SIGN FACE (APPROXIMATELY 25-30 FC AVERAGE VERTICAL). ADJUST AIM TO MAXIMIZE DARK SKIES, USE LIGHT METER AND MEASURE/RECORD POINT BY POINT MEASUREMENTS ON SIGN FACE. SUBMIT TO ENGINEER FOR FINAL APPROVAL OF AIMING PRIOR TO CONSTRUCTION COMPLETION.

265634 (BASE BID) (IF SOUTH LOOP IS AN UNPAVED ROADWAY) - PROVIDE CONDUIT SLEEVE (WITH PULLSTRING) FROM LIGHTING POLE TO 5'-0" FROM LIGHTING POLE AND CAP CONDUIT; FLAG AND RECOED ON ELECTRICAL DRAWINGS. (ALTERNATE BID) LIGHTING POLE/FIXTURE. ALTERNATE BID (IF SOUTH LOOP IS PAVED ROADWAY) - FURNISH AND INSTALL CABLE CONDUIT TO ALTERNATE LIGHTING POLES/FIXTURES LOCATED ALONG THE SOUTH LOOP (SEE SHEET E-102). REFER TO DIVISION 0 FRONT END SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR ALTERNATES.

265635 FURNISH AND INSTALL CONDUIT SLEEVE 5'-0" BEYOND THE LIGHTING POLE FOUNDATION FOR FUTURE USE (I.E. FUTURE LIGHTING/POLES). CAP CONDUIT END AND FLAG; RECORD LOCATION ON ELECTRICAL RECORD DRAWINGS. FURNISH WITH PULLSTRING IN CONDUIT SLEEVE.

265636 FURNISH AND INSTALL ELECTRICAL HANDHOLE. HANDHOLE COVER SHALL BE LABELED "ELECTRICAL". FOR ELECTRICAL HANDHOLE DETAIL, REFER TO SHEET E-802, DETAIL 6. MINIMIZE SPLICES WITHIN HANDHOLE UNLESS OTHERWISE APPROVED BY ENGINEER.

265637 LOCATE THE CENTERLINE OF TYPE 'SH' FIXTURES 1/3 OF THE HEIGHT OF THE FLAG POLE AWAY FROM FLAG POLE. FIELD AIM FIXTURE TO PROVIDE EVEN ILLUMINATION ON THE FLAG AT HALF-STAFF AND FULL-STAFF HEIGHT. MOUNT FIXTURE ON CONCRETE FOOTER; INSTALL FOOTER PER MANUFACTURER RECOMMENDATIONS. LIGHT FIXTURE MANUFACTURER SHALL PROVIDE LIGHTING CALCULATION INDICATING EXACT FIXTURE LOCATION AND AIMING REQUIREMENTS PRIOR TO FIXTURE PROCUREMENT. REFER TO SHEET SD-802, DETAIL 7 FOR FLAG POLE DETAIL.

265638 TOP OF CONCRETE BASE FOR LIGHT POLE SHALL BE 2'-6" AFG. LIGHT POLE SHALL BE 28'-0"H. FOR LIGHTING POLE FOUNDATION DETAIL, REFER TO SHEET E-807, DETAIL 3. PROVIDE 3'-0" SPACING BETWEEN EDGE OF PAVED ROADWAY/PARKING LOT AND EDGE OF CONCRETE POLE FOUNDATION.

265640 TOP OF CONCRETE BASE FOR LIGHT POLE SHALL BE 0'-6" AFG. LIGHT POLE SHALL BE 15'-0"H. FOR LIGHTING POLE FOUNDATION DETAIL, REFER TO SHEET E-807, DETAIL 3. PROVIDE 2'-0" SPACING BETWEEN EDGE OF SIDEWALK AND EDGE OF CONCRETE POLE FOUNDATION.

265641 TOP OF CONCRETE BASE FOR LIGHT POLE SHALL BE 0'-0" AFG (I.E. FLUSH WITH CONCRETE WALKWAY). LIGHT POLE SHALL BE 15'-6"H. FOR LIGHTING POLE FOUNDATION DETAIL, REFER TO SHEET E-807, DETAIL 3. ALIGN CENTER OF POLE WITH CENTER OF ADJACENT LINE OF PROTECTIVE CONCRETE BOLLARDS (I.E. IN LOCATION AS INDICATED AND SPACED AS INDICATED).

265642 TOP OF CONCRETE BASE FOR LIGHT POLE SHALL BE 0'-6" AFG. LIGHT POLE SHALL BE 30'-0"H. FOR LIGHTING POLE FOUNDATION DETAIL, REFER TO SHEET E-807, DETAIL 3. LOCATE CENTERLINE OF LIGHTING POLE FOUNDATION 5'-0" FROM THE EDGE OF THE PAVED PARKING LOT.

265643 PROVIDE 2'-0" SPACING BETWEEN EDGE OF SIDEWALK (I.E. SIDEWALK ADJACENT TO THE EAST SIDE OF THE CONCRETE POLE FOUNDATION) AND EDGE OF CONCRETE POLE FOUNDATION.

265644 LIGHTING POLE SHALL BE CONFIGURED FOR TWO (2) LIGHTING FIXTURES [I.E. ONE (1) ARM/LIGHTING FIXTURE AS INDICATED AND ONE (1) FUTURE ARM/FUTURE LIGHTING FIXTURE ORIENTED 180 DEGREES APART FOR ILLUMINATION OF FUTURE VISITOR PARKING LOT]. PROVIDE POLE WITH ALL NECESSARY PROVISIONS TO ACCOMODATE THE FUTURE ARM/FUTURE LIGHTING FIXTURE.

265645 TOP OF CONCRETE BASE FOR LIGHT POLE SHALL BE 0'-6" AFG. LIGHT POLE SHALL BE 30'-0"H. FOR LIGHTING POLE FOUNDATION DETAIL, REFER TO SHEET E-807, DETAIL 3. LOCATE CENTERLINE OF LIGHTING POLE FOUNDATION IN THE CENTER OF THE SHRUB BED IN LOCATION AS INDICATED.

265646 PROVIDE 2'-0" SPACING BETWEEN EDGE OF SIDEWALK (I.E. SIDEWALK ADJACENT TO THE WEST SIDE OF THE CONCRETE POLE FOUNDATION) AND EDGE OF CONCRETE POLE FOUNDATION.

265647 PROVIDE 2'-0" SPACING BETWEEN EDGE OF BENCH (I.E. BENCH ADJACENT TO THE SOUTH SIDE OF THE CONCRETE POLE FOUNDATION) AND EDGE OF CONCRETE POLE FOUNDATION.

265649 ROUTE EXTERIOR LIGHTING BRANCH CIRCUIT TO E3H-X (VIA LIGHTING CONTACTOR LC3). SEE SHEET E-301-A FOR PANELBOARD EP3 AND LIGHTING CONTACTOR LC3 LOCATION.

265650 FURNISH AND INSTALL COMMUNICATION HANDHOLE. HANDHOLE COVER SHALL BE LABELED "FIBER OPTIC". FOR COMMUNICATION HANDHOLE DETAIL, REFER TO SHEET E-802, DETAIL 6. SPLICES SHALL NOT BE ACCEPTABLE WITHIN HANDHOLE.

265651 CAP CONDUIT END AND PROVIDE PULLSTRING IN CONDUIT. FLAG LOCATION AND RECORD ON RECORD DRAWINGS. CONDUIT RESERVED FOR FUTURE NORTHEAST PARKING LOT (I.E. FUTURE FIBER OPTIC CABLE FOR FUTURE SECURITY CAMERAS).

265652 ROUTE CONDUIT UP TO NEMA 4X SECURITY ELECTRONICS ENCLOSURE. REFER TO SE RISER DIAGRAM REFER TO SECURITY ELECTRONICS (SE) RISER ON SHEET ES-300 FOR DETAILED REQUIREMENTS. FURNISH AND INSTALL ALL NECESSARY RACEWAYS, SLEEVES, J-BOXES, AND ELECTRICAL APPURTENANCES AS REQUIRED FOR SE EQUIPMENT (I.E. CAMERAS, CARD READERS, INTERCOMS) LOCATED AT ENTRY/EXIT GATE. REFER TO SE SERIES SHEETS FOR DETAILED REQUIREMENTS. FIELD COORDINATE EXACT LOCATIONS FOR ALL SE/GATE EQUIPMENT WITHIN THIS AREA WITH SE/GATE VENDORS PRIOR TO CONSTRUCTION.

265653 ROUTE CONDUITS FOR SECURITY ELECTRONICS (SE) CABLES (I.E. FIBER OPTIC CABLES) UP TO SQE#1 (IN SECURITY ROOM C1079). CAP SPARE CONDUITS (WITH PULLSTRINGS) AND LABEL. REFER TO SE RISER DIAGRAM ON SHEET ES-300 FOR DETAILED SE CABLING REQUIREMENTS.

265656 #1/0 CU GROUND LOOP IN FOOTING TRENCH FOR BUILDING GROUND. LOCATE 2'-6" BELOW FINISHED GRADE. BOND TO BUILDING REBAR.

265657 GROUND TEST WELL, REFER TO DETAIL #5, DRAWING E-803.

265658 #1/0 CU GROUNDING ELECTRODE CABLE FROM GENERATOR TO MAIN BUILDING GROUND BUS BAR #1 IN MECHANICAL #C1056. LOCATE 2'-6" BELOW FINISH GRADE.

265659 POST INDICATOR VALVE (P.I.V.) REFER TO DRAWING SD-401-D FOR EXACT LOCATION. FURNISH AND INSTALL 3/4"C. BETWEEN P.I.V. AND ELECTRICAL #C1054 FOR FIRE ALARM CONNECTION BETWEEN P.I.V. AND FIRE ALARM CONTROL PANEL (FACP-1), PROVIDE CABLES AS REQUIRED.

265660 (2)-4"C. FROM EXISTING UTILITY POLE TO MAIN DATA FRAME ROOM #B1060 FOR UTILITY COMMUNICATIONS FEEDS, ONE FOR TELEPHONE/DATA AND ONE FOR CABLE. COORDINATE EXACT LOCATION WITH OTHER TRADES BEFORE ROUGH-IN. FURNISH WITH PULLSTRINGS AND MARKER TAPES.

265661 RACEWAY #10A, REFER TO ONE-LINE DIAGRAM, DRAWING E-601. FURNISH WITH PULLSTRING AND MARKER TAPE. COORDINATE EXACT ROUTING WITH UTILITY.

265662 RACEWAY #10B, REFER TO ONE-LINE DIAGRAM, DRAWING E-601. FURNISH WITH PULLSTRING AND MARKER TAPE. COORDINATE EXACT ROUTING WITH UTILITY.

280540 CCTV EQUIPMENT ENCLOSURE AT BASE OF POLE. FURNISH AND INSTALL 120VAC POWER TO ENCLOSURE. CONNECT TO CIRCUIT SHOWN USING 2#12+G. IN 3/4"C. REFER TO SECURITY DRAWINGS FOR ENCLOSURE INFORMATION.

280541 FURNISH AND INSTALL (1) 6-FIBER, 50 MICRON, MULTI-MODE, OUTDOOR DIRECT BURIAL FIBER CABLE LIKE WEST PENN #WP9C240T DAISY CHAINED TO EACH CAMERA FROM SECURITY ELECTRONICS ROOM #C1079. REFER TO SECURITY DRAWINGS FOR MORE INFORMATION.

280542 SECURITY CAMERA(S) TO BE MOUNTED ON POLE WITH BOTTOM AT +15' AFG. REFER TO SECURITY DRAWINGS FOR MORE INFORMATION.

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DRAWN: RDW CHK'D: MLH
DESIGNED: TKF
APPR'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

ELECTRICAL SITE PLAN (NORTH)

DRAWING NUMBER E-101
ELECTRICAL

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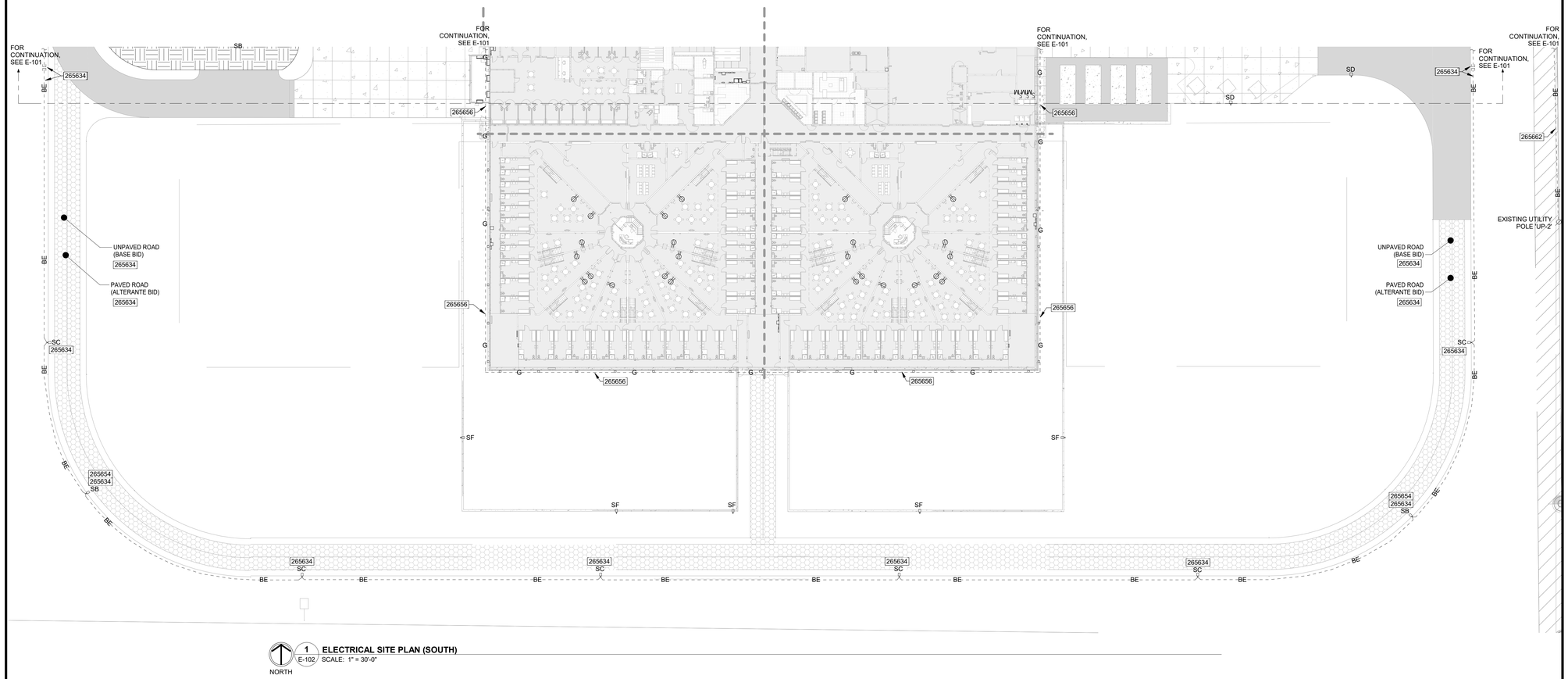

1 E-102 **ELECTRICAL SITE PLAN (SOUTH)**
SCALE: 1" = 30'-0"
NORTH

GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE DRAWING E-606.

B. (TYPICAL) CONDUIT DEPTH SHALL BE A MINIMUM 3'-0" BFG (I.E. BELOW FROSTLINE) U.O.N., COORDINATE DEPTH WITH PAVING DETAILS.

C. ELECTRIC UTILITY COMPANY IS DUKE ENERGRY, CONTACT: TYLER ANGLE - PHONE: 812-231-8721 - EMAIL: Tyler.Angle@duke-energy.com.

D. REFER TO SITE-CIVIL DRAWINGS FOR TELEPHONE AND COMMUNICATIONS COMPANY CONTACT INFORMATION

E. USE RIGID GALVANIZED SLEEVES UNDER VEHICLE TRAFFIC AREAS. EXTEND SLEEVES 5'-0" BEYOND THE PAVED VEHICLE TRAFFIC AREAS.

F. CONTRACTOR SHALL FIELD COORDINATE (ON-SITE) PRIOR TO CONSTRUCTION WITH ELECTRIC UTILITY, TELEPHONE UTILITY AND CABLE TV UTILITY TO FIELD COORDINATE EXACT UTILITY REQUIREMENTS.

G. REFERENCE DRAWING SD-401 FOR LOCATIONS OF INCOMING UTILITIES.

H. ROUTINGS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT ROUTINGS WITH SITE CIVIL CONTRACTOR, PRIOR TO CONSTRUCTION, TO AVOID UNDERGROUND UTILITIES, OBSTACLES, ETC. AS REQUIRED.

I. REFER TO SITE CIVIL PLANS FOR UNDERGROUND UTILITIES, PIPING, STRUCTURES, RIGHT OF WAYS, PROPERTY LINES, ETC.

J. CONTRACTOR SHALL PATCH AND REPAIR ALL SURFACES DISTURBED TO MATCH NEW, ADJACENT SURFACES UNLESS OTHERWISE NOTED. FIELD COORDINATE UNDERGROUND ROUTINGS WITH STIE CIVIL CONTRACTOR, PRIOR TO CONSTRUCTION, TO MINIMIZE PATCH AND REPAIR WORK.

K. BURY GROUNDING ELECTRODE CABLE A MINIMUM OF 30" B.F.G. PER NEC.

L. BURY COMMUNICATIONS CONDUITS A MINIMUM OF 3'-0" BFG (I.E. BELOW FROSTLINE) U.O.N.

M. PRIOR TO CONSTRUCTION, COORDINATE WITH CIVIL CONTRACTOR WHERE NECESSARY TO PROVIDE FINAL GRADING COVER AT POLE BASE FOUNDATIONS, BURIED CONDUITS, ETC. FOR SUFFICIENT GROUND COVER WHERE TOPOGRAPHY DROPS OFF STEEPLY AT EDGES OF ROADWAYS FOR DETENTION BASINS, ETC.

N. FOR DIRECT BURIED CONDUIT DETAIL, REFER TO SHEET E-806, DETAIL 5.

O. ORIENT LIGHTING POLES HANDHOLES ON THE OPPOSITE SIDE (NON-TRAFFIC SIDE) OF PAVED ROADWAYS/PARKING AREAS U.O.N.

P. FOR BUILDING EXTERIOR, PERIMETER/COURTYARD/CANOPY LIGHTING, REFER TO SHEET E-301-A THROUGH E-301-E. ALSO REFER TO ARCHITECTURAL FACADE ELEVATION PLANS.

Q. REFER TO SECURITY ELECTRONICS DRAWINGS FOR DETAILED SECURITY ELECTRONICS (SE) CABLING REQUIREMENTS FOR SE CONDUIT ROUTINGS INDICATED THIS SHEET (I.E. FIBER OPTIC CABLING FOR CAMERAS, CARD READERS, INTERCOMS, ETC). REFER TO SHEET ES-300 AND ES-301 FOR SE RISER DIAGRAMS AND SHEET ES-400 FOR SE CABLE SCHEDULE.

R. CONTRACTOR SHALL USE LONG RADIUS BENDS FOR ALL COMMUNICATION/SECURITY ELECTRONICS (I.E. FIBER OPTIC CABLING) CONDUITS. MINIMIZE BENDS BETWEEN PULL POINTS TO NO MORE THAN THREE (3) 90 DEGREE BENDS. COORDINATE/COMPLY WITH CABLING MANUFACTURERS PULLING TENSION REQUIREMENTS PRIOR TO INSTALLATION.

S. FOR SITE ELECTRICAL DEMOLITION WORK, REFER TO SHEETS SD-102 AND SD-103 FOR DETAILED REQUIREMENTS.

SITE KEYNOTES

2656##

265634 (BASE BID) (IF SOUTH LOOP IS AN UNPAVED ROADWAY) - PROVIDE CONDUIT SLEEVE (WITH PULLSTRING) FROM LIGHTING POLE TO 5'-0" FROM LIGHTING POLE AND CAP CONDUIT; FLAG AND RECORD ON ELECTRICAL DRAWINGS. (ALTERNATE BID) LIGHTING POLE/FIXTURE. ALTERNATE BID (IF SOUTH LOOP IS PAVED ROADWAY) - FURNISH AND INSTALL CABLE CONDUIT TO ALTERNATE LIGHTING POLES/FIXTURES LOCATED ALONG THE SOUTH LOOP (SEE SHEET E-102). REFER TO DIVISION 0 FRONT END SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR ALTERNATES.

265654 LOCATE EDGE OF TYPE 'SB' POLE BASE A MINIMUM OF 3'-0" FROM THE EDGE OF THE ROADWAY. MOUNT ON 3'-0"H CONCRETE POLE BASE. FOR CONCRETE POLE BASE DETAIL, SEE SHEET E-807 DETAIL 7.

265656 #1/0 CU GROUND LOOP IN FOOTING TRENCH FOR BUILDING GROUND. LOCATE 2'-6" BELOW FINISHED GRADE. BOND TO BUILDING REBAR.

265662 RACEWAY #10B, REFER TO ONE-LINE DIAGRAM, DRAWING E-601. FURNISH WITH PULLSTRING AND MARKER TAPE. COORDINATE EXACT ROUTING WITH UTILITY.

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PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW | CHK'D: MLH
DESIGNED: TKF
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
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TERRE HAUTE, INDIANA

ELECTRICAL SITE PLAN (SOUTH)

DRAWING NUMBER E-102
ELECTRICAL

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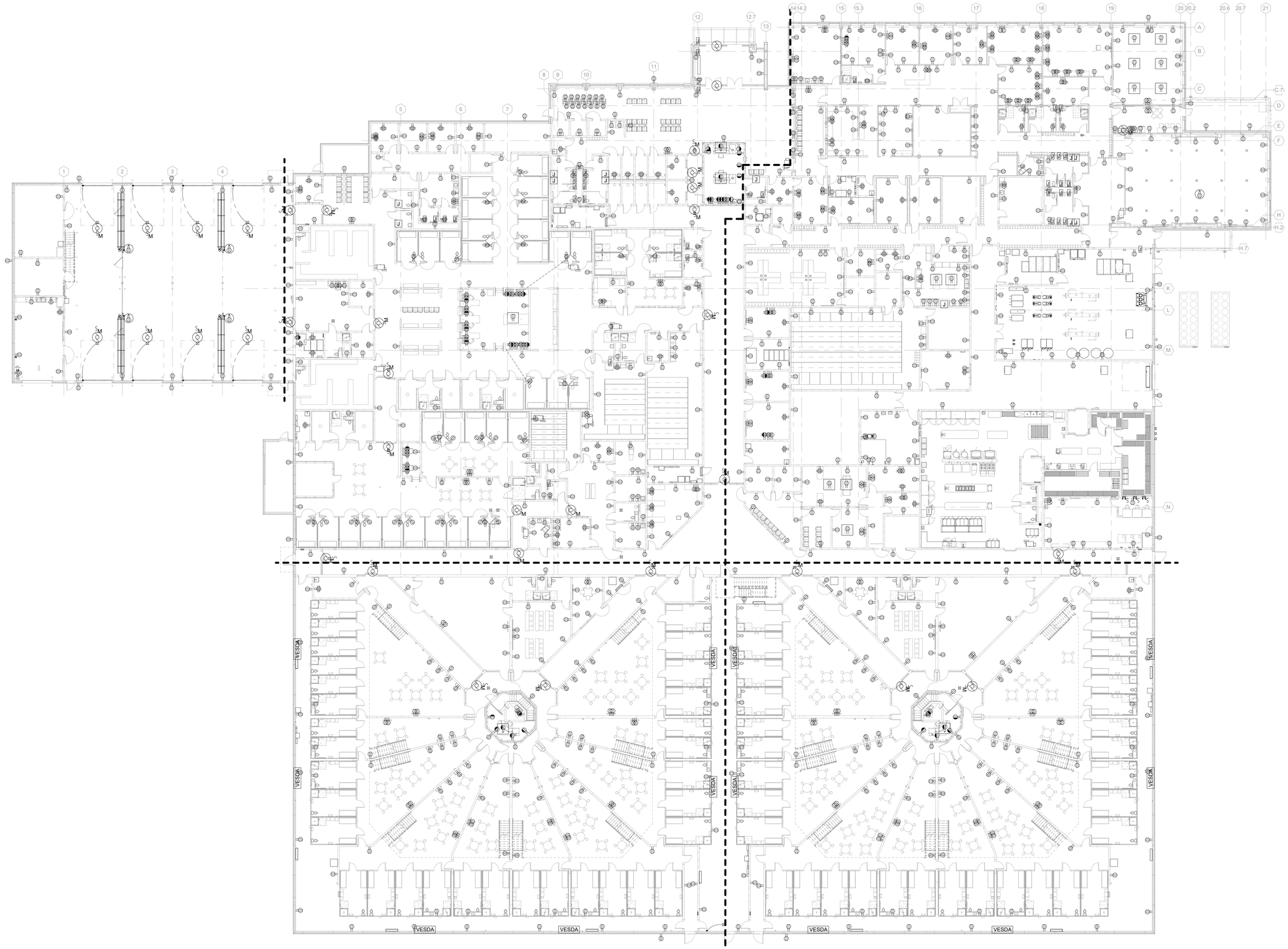

1 E-201 **FIRST FLOOR POWER - OVERALL**
SCALE: 1/16" = 1'-0"
NORTH

THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY - SEE SHEETS E-201-A, E-201-B, E-201-C, E-201-D AND E-201-E FOR DETAILED REQUIREMENTS AND KEYED NOTES FOR POWER.

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DLZ INDIANA, LLC

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REGISTERED
PE60019675
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PROFESSIONAL ENGINEER

NO.	REVISION	DATE

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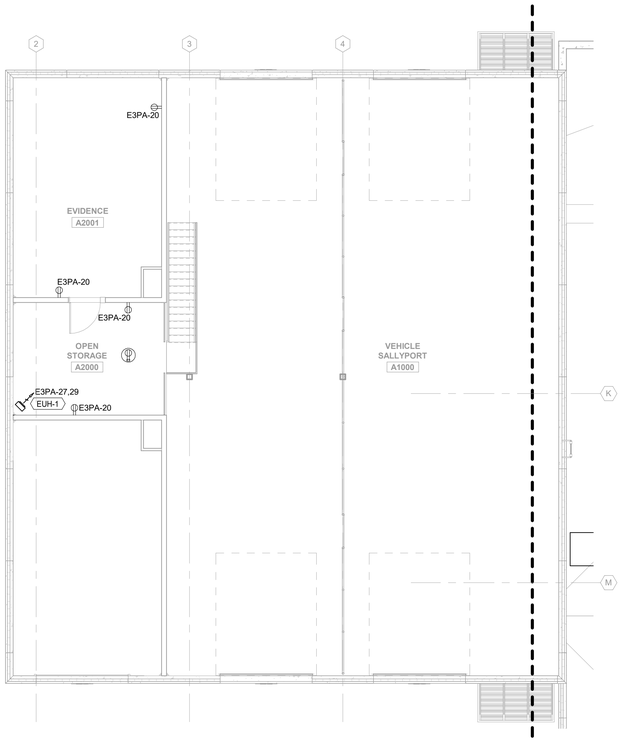
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR POWER PLAN - OVERALL

DRAWING NUMBER
E-201

ELECTRICAL



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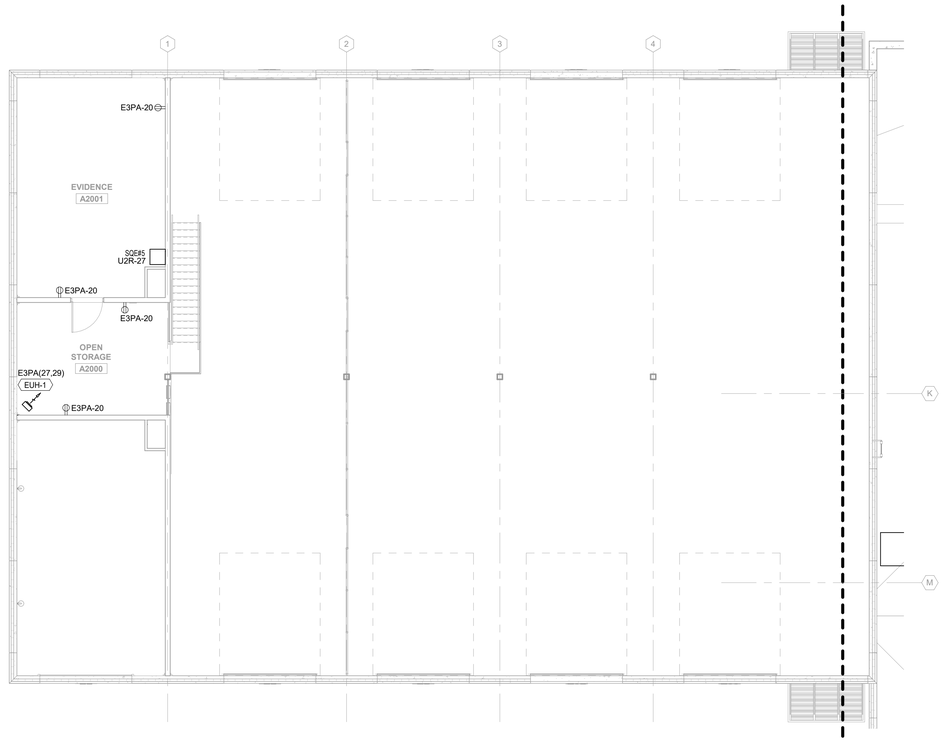
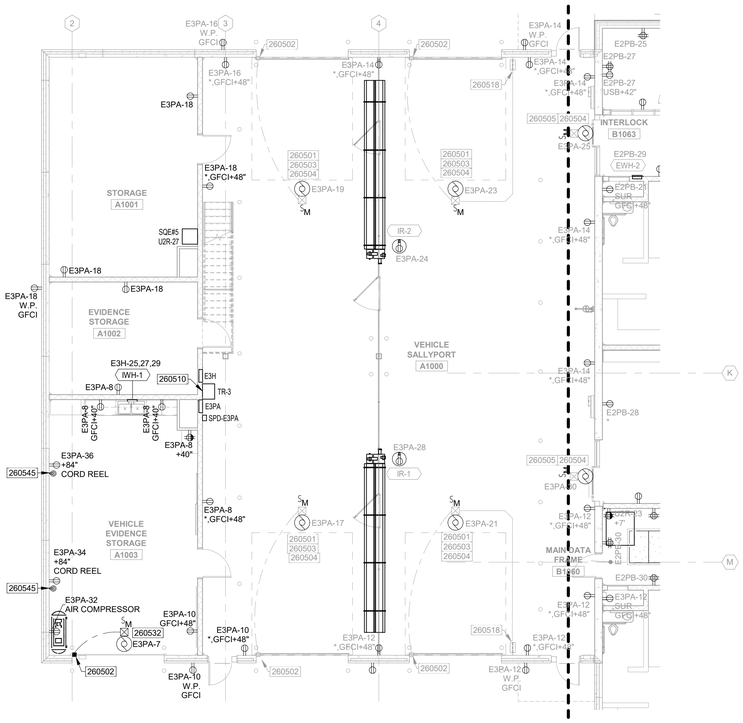
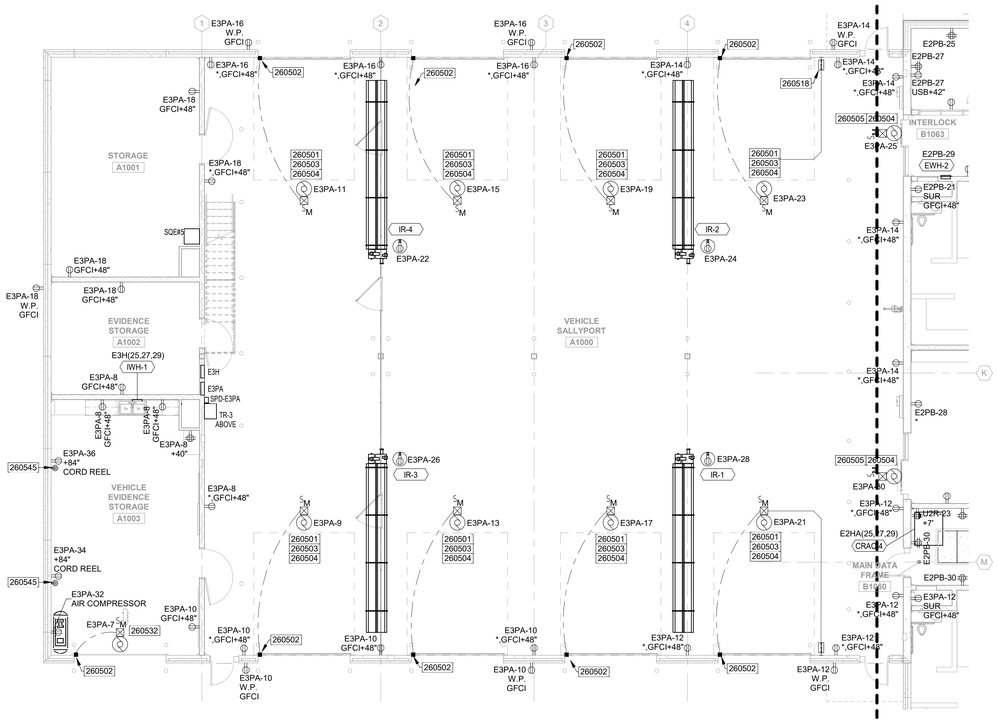
SCALE: 1/8" = 1'-0"
NORTH



2 E-201-A MEZZANINE POWER PLAN - AREA 'A'
SCALE: 1/8" = 1'-0"
NORTH



3 E-201-A FIRST FLOOR POWER - AREA 'A' ALTERNATE
SCALE: 1/8" = 1'-0"
NORTH



1 E-201-A FIRST FLOOR POWER - AREA 'A'
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. FOR PANELBOARD SCHEDULES, SEE DRAWINGS E-701, E-702, E-703, E-704, E-705, E-706 AND E-707.

B. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTIONS SCHEDULE ON DRAWINGS E-604 & E-605 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL EQUIPMENT REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND EQUIPMENT NAMEPLATE ELECTRICAL LOAD INFORMATION (I.E. VOLTS, PHASE, FLA, MOCP, ETC.).

C. CONTRACTOR SHALL FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

D. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

E. REFER TO SECURITY DRAWINGS, #SE SERIES, FOR ADDITIONAL EQUIPMENT AND WIRING REQUIREMENTS. PROVIDE BOXES, RACEWAYS, CABLING, SUPPORTS, ETC. AS REQUIRED FOR SECURITY EQUIPMENT. REFER TO SPECIFICATION SECTIONS 078123 "NTUMESCENT FIREPROOFING" AND 078443 "JOINT FIRESTOPPING" FOR DETAIL FIRESTOP REQUIREMENTS.

F. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 "JOINT SEALANTS" FOR DETAILED REQUIREMENTS FOR SEALANT(S).

G. WATER MANAGEMENT SYSTEM TO BE PROVIDED BY OTHERS. CONNECT ALL VALVE CONTROLLERS AS FOLLOWS:
IN AREA B TO CIRCUIT E2PA-36, E2PB-31, E2PC-31 OR E2PE-21.
IN AREA C TO CIRCUIT K1L-7.
IN AREA D TO CIRCUIT E4PA-37, E5PA-45 OR E5PB-41.
IN AREA E TO CIRCUIT E4PA-39, E4PB-41 OR E5PA-47.
EACH CIRCUIT TO BE 2#12+G, IN 3/4"C. REFER TO CELL VALVE CONTROLLER (CVC) CONNECTION DETAIL #5 ON SHEET E-804. COORDINATE CONTROLLER LOCATIONS BEFORE ROUGH-IN.

POWER KEYNOTES 2605##

260501 FURNISH AND INSTALL POWER (20A, 120V) AND CONTROL WIRING FOR OVERHEAD DOOR CONTROLLERS. DOOR SAFETIES/LIMIT SWITCHES AND KEYED OPEN-STOP-CLOSE PUSHBUTTON CONTROLLER STATIONS (WHERE INDICATED) FURNISHED BY OVERHEAD DOOR EQUIPMENT VENDOR. REFER TO SPECIFICATION 083613 "SECTIONAL DOORS" FOR DETAILED REQUIREMENTS. INSTALL DOOR SAFETIES/LIMIT SWITCHES, DOOR STARTER/CONTROLLER, AND PUSHBOTTON CONTROL STATION PER MANUFACTURERS RECOMMENDATION. FURNISH AND INSTALL ALL CABLING/CONDUIT REQUIRED FOR COMPLETE SYSTEM. FIELD-COORDINATE THE EQUIPMENT INSTALLATION AND CABLING/CONDUIT REQUIREMENTS WITH THE DOOR EQUIPMENT VENDOR PRIOR TO CONSTRUCTION.

260502 OVERHEAD DOOR SAFETY INTERLOCK DEVICES FURNISHED BY OVERHEAD DOOR VENDOR, INSTALLED BY CONTRACTOR.

260503 OVERHEAD DOORS TO BE CONTROLLED FROM REMOTE CONTROL PANEL IN MASTER CONTROL #B1016. FURNISH AND INSTALL CONTROL WIRING AS NEEDED BETWEEN DOOR AND CONTROL PANEL IN 3/4"C. PER MANUFACTURER'S RECOMMENDATION. VERIFY EXACT LOCATION OF CONTROL PANEL BEFORE ROUGH-IN.

260504 FURNISH AND INSTALL CONDUIT (3/4"C.) FROM EACH DOOR STARTER/CONTROLLER TO SECURITY CONTROL PANEL FOR ACCESS CONTROL WIRING. WIRING AND TERMINATIONS BY OTHERS. REFER TO SECURITY SERIES SHEETS FOR DETAILED WIRING REQUIREMENTS.

260505 FURNISH AND INSTALL POWER (1/8HP, 120V) FOR SLIDING DOOR CONTROLLERS, DOOR SAFETIES/LIMIT SWITCHES AND KEYED OPEN-CLOSE PUSHBUTTON CONTROL STATIONS FURNISHED BY DOOR EQUIPMENT VENDOR. CONTROL WIRING BY OTHERS. REFER TO SPECIFICATION 087100 "DOOR HARDWARE" FOR DETAILED REQUIREMENTS. INSTALL DOOR SAFETIES/LIMIT SWITCHES AND CONTROL SWITCH(S) PER MANUFACTURERS RECOMMENDATION. FURNISH AND INSTALL CONDUIT/POWER WIRING REQUIRED FOR A COMPLETE SYSTEM.
FIELD-COORDINATE THE EQUIPMENT INSTALLATION AND CONDUIT REQUIREMENTS WITH THE DOOR EQUIPMENT VENDOR PRIOR TO CONSTRUCTION.

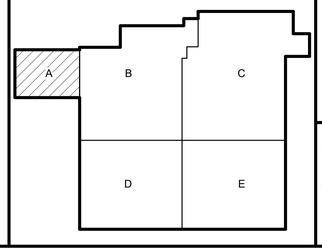
260510 EQUIPMENT TO BE MOUNTED ON CONCRETE PAD, REFER TO STRUCTURAL DRAWING S-530, DETAILS #8 AND/OR #9 FOR CONCRETE PAD INSTALLATION DETAIL.

260518 KEYED OVERHEAD DOOR OPEN-CLOSE-STOP PUSHBUTTON CONTROL STATIONS FURNISHED BY OVERHEAD DOOR VENDOR. MOUNT TOP OF CONTROL STATION AT +48" AFF. COORDINATE EXACT LOCATIONS WITH OWNER PRIOR TO CONSTRUCTION. WIRE PER MANUFACTURER'S RECOMMENDATION.

260532 FURNISH AND INSTALL POWER (20A, 120V) AND CONTROL WIRING FOR OVERHEAD COILING DOOR CONTROLLERS. DOOR SAFETIES/LIMIT SWITCHES FURNISHED BY OVERHEAD DOOR EQUIPMENT VENDOR. REFER TO SPECIFICATION 083323 "OVERHEAD COILING DOORS" FOR DETAILED REQUIREMENTS. INSTALL DOOR SAFETIES/LIMIT SWITCHES AND DOOR STARTER/CONTROLLER PER MANUFACTURERS RECOMMENDATION. FURNISH AND INSTALL ALL CABLING/CONDUIT REQUIRED FOR COMPLETE SYSTEM. FIELD-COORDINATE THE EQUIPMENT INSTALLATION AND CABLING/CONDUIT REQUIREMENTS WITH THE DOOR EQUIPMENT VENDOR PRIOR TO CONSTRUCTION.

260545 CORD REEL WITH LED HEAD, 120V, 13A, LIKE REEL CRAFT #L-4035-163-10 OR APPROVED EQUAL. FURNISH WITH 35' TYPE SJTOW CORD AND #600626 UNIVERSAL SWING WALL MOUNTING BRACKET. MOUNT ON WALL WITH BOTTOM AT +70" AFF. COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.

KEY PLAN



DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PROFESSIONAL ENGINEER PE60018675 STATE OF INDIANA

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR AND MEZZANINE POWER PLANS - AREA A

DRAWING NUMBER E-201-A
ELECTRICAL

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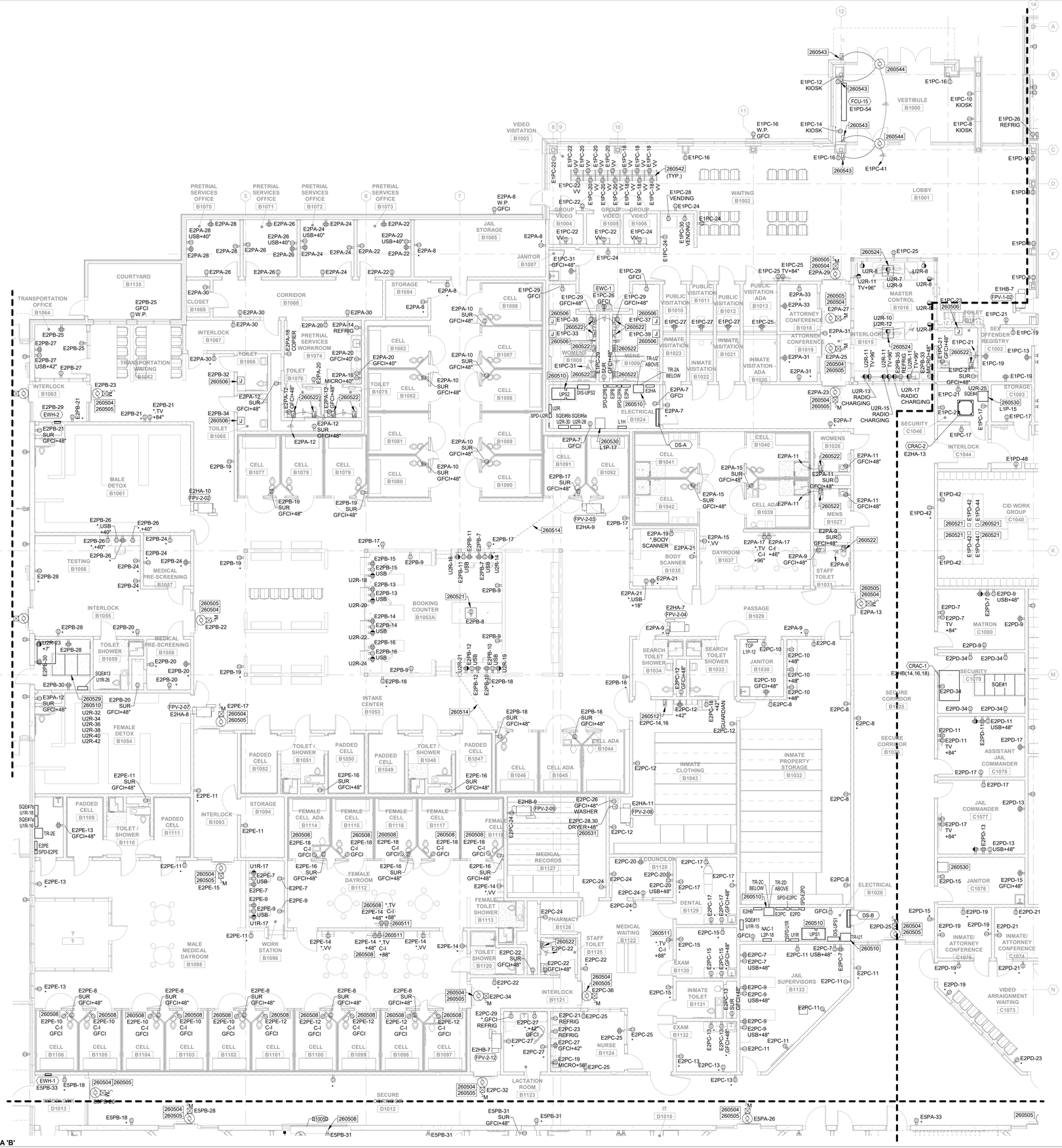

1 FIRST FLOOR POWER - AREA 'B'
E-201-B SCALE: 1/8" = 1'-0"

NORTH

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GENERAL NOTES

A. FOR PANELBOARD SCHEDULES, SEE DRAWINGS E-701, E-702, E-703, E-704, E-705, E-706 AND E-707.

B. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTIONS SCHEDULE ON DRAWINGS E-604 & E-605 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL EQUIPMENT REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND EQUIPMENT NAMEPLATE ELECTRICAL LOAD INFORMATION (I.E. VOLTS, PHASE, FLA, MOCP, ETC.).

C. CONTRACTOR SHALL FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

D. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

E. REFER TO SECURITY DRAWINGS, #SE SERIES, FOR ADDITIONAL EQUIPMENT AND WIRING REQUIREMENTS. PROVIDE BOXES, RACEWAYS, CABLING, SUPPORTS, ETC. AS REQUIRED FOR SECURITY EQUIPMENT. REFER TO SPECIFICATION SECTIONS 078123 "INTUMESCENT FIREPROOFING" AND 078443 "JOINT FIRESTOPPING" FOR DETAIL FIRESTOP REQUIREMENTS.

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IN AREA C TO CIRCUIT K1L-7.
IN AREA D TO CIRCUIT E4PA-37, E5PA-45 OR E5PB-41.
IN AREA E TO CIRCUIT E4PA-39, E4PB-41 OR E5PA-47.
EACH CIRCUIT TO BE 2#12+G. IN 3/4"C. REFER TO CELL VALVE CONTROLLER (CVC) CONNECTION DETAIL #5 ON SHEET E-804. COORDINATE CONTROLLER LOCATIONS BEFORE ROUGH-IN.

POWER KEYNOTES 2605##

260504 FURNISH AND INSTALL CONDUIT (3/4"C.) FROM EACH DOOR STARTER/CONTROLLER TO SECURITY CONTROL PANEL FOR ACCESS CONTROL WIRING. WIRING AND TERMINATIONS BY OTHERS. REFER TO SECURITY SERIES SHEETS FOR DETAILED WIRING REQUIREMENTS.

260505 FURNISH AND INSTALL POWER (1/8HP, 120V) FOR SLIDING DOOR CONTROLLERS. DOOR SAFETIES/LIMIT SWITCHES AND KEYED OPEN-CLOSE PUSHBUTTON CONTROL STATIONS FURNISHED BY DOOR EQUIPMENT VENDOR. CONTROL WIRING BY OTHERS. REFER TO SPECIFICATION 087100 "DOOR HARDWARE" FOR DETAILED REQUIREMENTS. INSTALL DOOR SAFETIES/LIMIT SWITCHES AND CONTROL SWITCH(S) PER MANUFACTURERS RECOMMENDATION. FURNISH AND INSTALL CONDUIT/POWER WIRING REQUIRED FOR A COMPLETE SYSTEM. FIELD-COORDINATE THE EQUIPMENT INSTALLATION AND CONDUIT REQUIREMENTS WITH THE DOOR EQUIPMENT VENDOR PRIOR TO CONSTRUCTION.

260506 NEW ELECTRIC HAND DRYER, REFER TO SPECIFICATIONS. COORDINATE EXACT HEIGHT AND LOCATION BEFORE ROUGH-IN.

260508 FURNISH AND INSTALL RECEPTACLE IN CUSTOM FLUSH MOUNTED, LOCKABLE WALL CABINET. FOR CABINET DETAIL, SEE SHEET E-801, DETAIL #4.

260510 EQUIPMENT TO BE MOUNTED ON CONCRETE PAD. REFER TO STRUCTURAL DRAWING S-530, DETAILS #8 AND/OR #9 FOR CONCRETE PAD INSTALLATION DETAIL.

260511 RECEPTACLE INDIVIDUALLY CONTROLLED BY SECURITY ELECTRONIC CABINET RELAY. REFER TO SECURITY EQUIPMENT PLANS AND DIVISION 28 SPECIFICATIONS FOR DETAILED WIRING REQUIREMENTS.

260512 PROVIDE POWER CONNECTION FOR "GUARDIAN SYSTEM" EQUIPMENT. CONNECT TO CIRCUIT SHOWN USING 2#10+G. IN 3/4"C. COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.

260514 FURNISH AND INSTALL (1)-1"C. FROM BELOW COUNTER RAISED FLOOR OVER TO CHASE AND STUBBED OUT AT +12" A.F.F. FOR FUTURE POWER WIRING. FURNISH WITH PULLSTRING.

260521 FURNISH AND INSTALL 4-GANG FLOOR BOX, LIKE LEGRAND/WIREMOLD #RFB4 OR APPROVED EQUAL. MOUNT FLUSH IN FLOOR. FURNISH WITH TWO (2)-20A DUPLEX RECEPTACLES, ONE (1) #RFB-B BLANK DEVICE PLATE AND ONE (1) COMMUNICATIONS OUTLET. REFERENCE KEYNOTE #270502 ON E-401 SERIES SHEETS. VERIFY EXACT LOCATION WITH ARCHITECT BEFORE ROUGH-IN. ROUTE (1)-3/4"C. ROUTE ONE (1)-3/4"C. FROM BOX OVER AND UP NEAREST CHASE/WALL FOR POWER.

260522 AUTOMATIC FLUSH VALVE. REFER TO AUTOMATIC ELECTRIC FLUSH VALVE DETAIL #2 ON SHEET E-801.

260524 FURNISH AND INSTALL 8-GANG FLOOR BOX, LIKE LEGRAND/WIREMOLD #EFB8S OR APPROVED EQUAL WITH TWO (2) #EFB-8M 4-GANG MOUNTING BRACKETS, ONE (1) #EFB610BTXX FLUSH STYLE COVER LID WITH FINISH PER ARCHITECT. BOX TO HAVE SIX (6) DEVICE PLATES WITH SIX (6) 20A DUPLEX RECEPTACLES, ONE (1) #EFB-B BLANK DEVICE PLATE AND ONE (1) COMMUNICATIONS OUTLETS. REFERENCE KEYNOTE #270511 ON E-401 SERIES SHEETS. VERIFY EXACT LOCATION WITH ARCHITECT BEFORE ROUGH-IN. ROUTE (2)-3/4"C. FROM BOX OVER AND UP NEAREST WALL FOR POWER. PROVIDE A MAXIMUM OF (3) RECEPTACLES PER CIRCUIT.

260529 COMMUNICATIONS/DATA RACKS, REFER TO SPECIFICATIONS. EACH RACK TO RECEIVE TWO 20A, 120V CIRCUITS, AS INDICATED, IN 3/4"C. FROM PANEL 'U2R'. PROVIDE 2#12+G PER CIRCUIT.

260530 PREACTION DRY-POWER SYSTEM, 120V. CONNECT TO CIRCUIT SHOWN USING 2#12+G. IN 3/4"C. COORDINATE EXACT LOCATION.

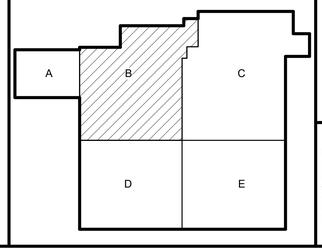
260531 CONNECT TO CIRCUIT SHOWN WITH 2#10+G. IN 3/4"C.

260542 ROUTE POWER CONDUCTORS UP TO VIDEO VISITATION STATION THROUGH CABINET SUPPORT LEGS. COORDINATE WITH EQUIPMENT SUPPLIER.

260543 AUTOMATIC DOOR OPENER. PUSHBUTTONS BY MANUFACTURER, WIRE PER MANUFACTURER'S RECOMMENDATION, 120V. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

260544 ELECTRIC DOOR. VERIFY WITH MANUFACTURER ALL FINAL CONNECTIONS.

KEY PLAN



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DLZ INDIANA, LLC

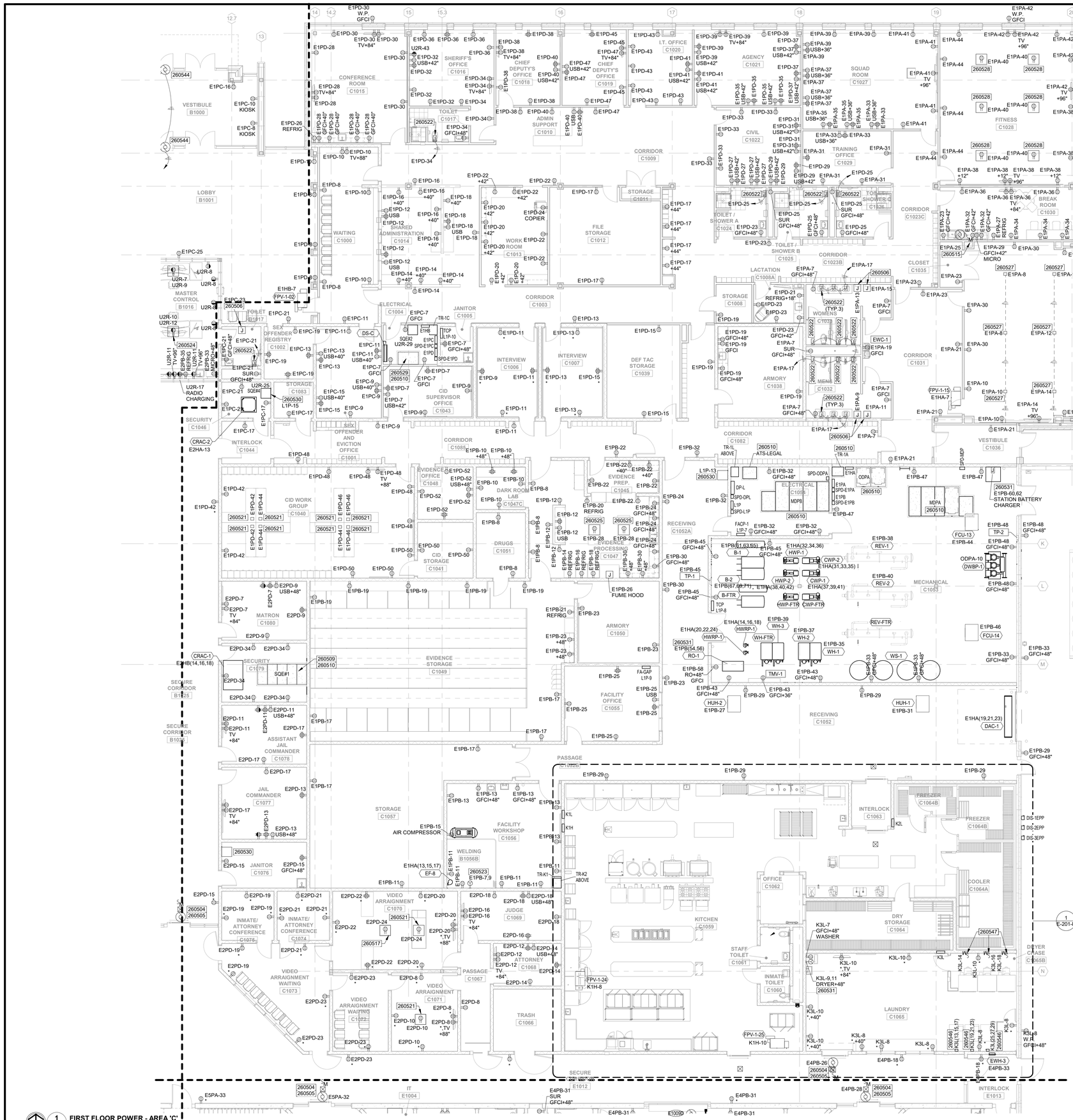
MARVIN L. HITCHCOCK II
STATE OF INDIANA
PE60018675
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHKD: MLH
DESIGNED: RDW
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR POWER PLAN - AREA B

DRAWING NUMBER E-201-B
ELECTRICAL



1 FIRST FLOOR POWER - AREA 'C'
E-201-C SCALE: 1/8" = 1'-0"

NORTH

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POWER KEYNOTES

26054##

260504 FURNISH AND INSTALL CONDUIT (3/4"C.) FROM EACH DOOR STARTER/CONTROLLER TO SECURITY CONTROL PANEL FOR ACCESS CONTROL WIRING. WIRING AND TERMINATIONS BY OTHERS. REFER TO SECURITY SERIES SHEETS FOR DETAILED WIRING REQUIREMENTS.

260505 FURNISH AND INSTALL POWER (1/8HP, 120V) FOR SLIDING DOOR CONTROLLERS, DOOR SAFETIES/LIMIT SWITCHES AND KEYED OPEN-CLOSE PUSHBUTTON CONTROL STATIONS FURNISHED BY DOOR EQUIPMENT VENDOR. CONTROL WIRING BY OTHERS. REFER TO SPECIFICATION 087100 "DOOR HARDWARE" FOR DETAILED REQUIREMENTS. INSTALL DOOR SAFETIES/LIMIT SWITCHES AND CONTROL SWITCH(S) PER MANUFACTURERS RECOMMENDATION. FURNISH AND INSTALL CONDUIT/POWER WIRING REQUIRED FOR A COMPLETE SYSTEM. FIELD-COORDINATE THE EQUIPMENT INSTALLATION AND CONDUIT REQUIREMENTS WITH THE DOOR EQUIPMENT VENDOR PRIOR TO CONSTRUCTION.

260506 NEW ELECTRIC HAND DRYER. REFER TO SPECIFICATIONS. COORDINATE EXACT HEIGHT AND LOCATION BEFORE ROUGH-IN.

260509 SECURITY EQUIPMENT RACKS (5 TOTAL). REFER TO SECURITY DRAWINGS. PROVIDE TEN (10) 20A, 120V CIRCUITS FROM PANEL 'U1R' TO RACKS, CIRCUITS #19-#27,29 AND FOUR (4) 20A, 120V CIRCUITS FROM PANEL 'E2PD' TO RACKS, CIRCUITS #26, 28, 30, 32. COORDINATE WITH SECURITY CONTRACTOR ON EXACT LOCATION OF CIRCUITS. PROVIDE 2#12+G IN 3/4"C. FOR EACH CIRCUIT.

260510 EQUIPMENT TO BE MOUNTED ON CONCRETE PAD, REFER TO STRUCTURAL DRAWING S-530, DETAILS #8 AND/OR #9 FOR CONCRETE PAD INSTALLATION DETAIL.

260515 PROVIDE AND INSTALL AS REQUIRED TOGGLE SWITCH FOR GARBAGE DISPOSAL CONTROL WITH RACEWAY AND CONDUCTORS FROM SWITCH TO GARBAGE DISPOSAL UNIT, 3/4HP, 120V. MOUNT SWITCH ABOVE COUNTERTOP. CIRCUIT AS SHOWN.

260517 FURNISH AND INSTALL 2-GANG FLOOR BOX, LIKE LEGRAND/WIREMOLD #RFB2 OR APPROVED EQUAL. MOUNT FLUSH IN FLOOR. FURNISH WITH ONE (1)-20A DUPLEX RECEPTACLE AND ONE (1) COMMUNICATIONS OUTLET, REFERENCE KEYNOTE #S-- ON E-401 SERIES SHEETS. VERIFY EXACT LOCATION WITH ARCHITECT BEFORE ROUGH-IN. ROUTE ONE (1)-3/4"C. FROM BOX OVER AND UP NEAREST CHASE/WALL FOR POWER.

260521 FURNISH AND INSTALL 4-GANG FLOOR BOX, LIKE LEGRAND/WIREMOLD #RFB4 OR APPROVED EQUAL. MOUNT FLUSH IN FLOOR. FURNISH WITH TWO (2)-20A DUPLEX RECEPTACLES, ONE (1) #RFB-B BLANK DEVICE PLATE AND ONE (1) COMMUNICATIONS OUTLET, REFERENCE KEYNOTE #270502 ON E-401 SERIES SHEETS. VERIFY EXACT LOCATION WITH ARCHITECT BEFORE ROUGH-IN. ROUTE (1)-3/4"C. FROM BOX OVER AND UP NEAREST CHASE/WALL FOR POWER.

260522 AUTOMATIC FLUSH VALVE. REFER TO AUTOMATIC ELECTRIC FLUSH VALVE DETAIL #2 ON SHEET E-801.

260523 FURNISH AND INSTALL 240V, 30A NEMA L6-30 RECEPTACLE FOR OWNER PROVIDED PORTABLE PLUGIN WELDER. VERIFY EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.

260524 FURNISH AND INSTALL 8-GANG FLOOR BOX, LIKE LEGRAND/WIREMOLD #EFB8S OR APPROVED EQUAL WITH TWO (2) #EFB-8M 4-GANG MOUNTING BRACKETS. ONE (1) #EFB610BTXX FLUSH STYLE COVER LID WITH FINISH PER ARCHITECT. BOX TO HAVE SIX (6) DEVICE PLATES WITH SIX (6) 20A DUPLEX RECEPTACLES, ONE (1) #EFB-B BLANK DEVICE PLATE AND ONE (1) COMMUNICATIONS OUTLETS. REFERENCE KEYNOTE #270511 ON E-401 SERIES SHEETS. VERIFY EXACT LOCATION WITH ARCHITECT BEFORE ROUGH-IN. ROUTE (2)-3/4"C. FROM BOX OVER AND UP NEAREST WALL FOR POWER. PROVIDE A MAXIMUM OF (3) RECEPTACLES PER CIRCUIT.

260525 FURNISH AND INSTALL 2-GANG FLOOR BOX, LIKE LEGRAND/WIREMOLD #RFB2 OR APPROVED EQUAL. MOUNT FLUSH IN FLOOR. FURNISH WITH TWO (2)-20A DUPLEX RECEPTACLE. COORDINATE EXACT LOCATION WITH OWNER PROVIDED CASEWORK BEFORE ROUGH-IN. ROUTE (1)-3/4"C.FROM BOX OVER AND UP NEAREST CHASE/WALL FOR POWER.

260527 FLUSH, 4-GANG COMBO FLOOR BOX LIKE LEGRAND/WIREMOLD #RFB4 OR APPROVED EQUAL. MOUNT FLUSH IN FLOOR. FURNISH WITH THREE (3)-20A DUPLEX RECEPTACLES AND ONE (1)-CAT6 COMMUNICATIONS OUTLET, REFERENCE KEYNOTE #270502 ON DRAWING #E-401-A. PROVIDE FLANGED CUTOUT COVER LIKE #FPCTC##. VERIFY EXACT LOCATION WITH ARCHITECT BEFORE ROUGH-IN AND COORDINATE WITH G.C. DURING CONSTRUCTION. COVER ASSEMBLY FINISH BY ARCHITECT. PROVIDE ALL COMPONENTS FOR A COMPLETE INSTALLATION. ROUTE (1)-3/4"C. FROM BOX AS SHOWN FOR POWER. CONNECT TO CIRCUIT SHOWN USING 2#12+G.

260528 FURNISH AND INSTALL 1-GANG FULLY ADJUSTABLE SHALLOW CAST IRON FLOOR BOX, LIKE WALKER #880CM1-1 WITH ONE (1) #817B ONE-GANG BRASS FLANGE AND ONE (1) #828R BRASS DUPLEX COVER PLATE. BOX TO HAVE ONE (1) 20A DUPLEX RECEPTACLE. VERIFY EXACT LOCATION WITH OWNER AND ARCHITECT BEFORE ROUGH-IN. ROUTE (1)-3/4"C. FROM BOX OVER AND UP/ON NEAREST WALL FOR POWER.

260529 COMMUNICATIONS/DATA RACKS, REFER TO SPECIFICATIONS. EACH RACK TO RECEIVE TWO 20A, 120V CIRCUITS, AS INDICATED, IN 3/4"C. FROM PANEL 'U2R'. PROVIDE 2#12+G PER CIRCUIT.

260530 PREACTION DRY-POWER SYSTEM, 120V. CONNECT TO CIRCUIT SHOWN USING 2#12+G. IN 3/4"C. COORDINATE EXACT LOCATION.

260531 CONNECT TO CIRCUIT SHOWN WITH 2#10+G. IN 3/4"C.

260541 DEVICE TO BE FLUSH MOUNTED IN CEILING FOR CEILING PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT BEFORE ROUGH-IN.

260544 ELECTRIC DOOR. VERIFY WITH MANUFACTURER ALL FINAL CONNECTIONS.

260546 FURNISH AND INSTALL 240VAC, 3-POLE, 30A HEAVY DUTY NON-FUSED SAFETY DISCONNECT SWITCH IN NEMA 4X STAINLESS STELL ENCLOSURE WITH KEY INTERLOCK SYSTEM. CONNECT TO CIRCUIT SHOWN USING 3#10+G. IN 3/4"C. PROVIDE CONNECTION AS NEEDED BETWEEN DISCONNECT AND WASHER.

260547 FURNISH AND INSTALL 600VAC, 20A, 2-POLE MANUAL MOTOR STARTING SWITCH WITH THERMAL OVERLOAD, RED (RUN) LED PILOT LIGHT, MOTOR RATED. CONNECT TO CIRCUIT SHOWN USING 2#12+G. IN 3/4"C. PROVIDE CONNECTION AS NEEDED BETWEEN SWITCH AND DRYER.

GENERAL NOTES

A. FOR PANELBOARD SCHEDULES, SEE DRAWINGS E-701, E-702, E-703, E-704, E-705, E-706 AND E-707.

B. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTIONS SCHEDULE ON DRAWINGS E-604 & E-605 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL EQUIPMENT REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND EQUIPMENT NAMEPLATE ELECTRICAL LOAD INFORMATION (I.E. VOLTS, PHASE, FLA, MOCP, ETC.).

C. CONTRACTOR SHALL FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

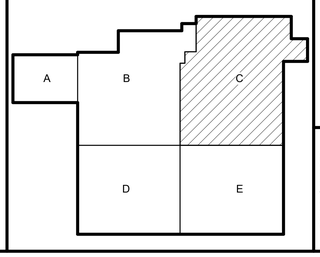
D. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

E. REFER TO SECURITY DRAWINGS, #SE SERIES, FOR ADDITIONAL EQUIPMENT AND WIRING REQUIREMENTS. PROVIDE BOXES, RACEWAYS, CABLING, SUPPORTS, ETC. AS REQUIRED FOR SECURITY EQUIPMENT. REFER TO SPECIFICATION SECTIONS 078123 "INTUMESCENT FIREPROOFING" AND 078443 "JOINT FIRESTOPPING" FOR DETAIL FIRESTOP REQUIREMENTS.

F. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 "JOINT SEALANTS" FOR DETAILED REQUIREMENTS FOR SEALANT(S).

G. WATER MANAGEMENT SYSTEM TO BE PROVIDED BY OTHERS. CONNECT ALL VALVE CONTROLLERS AS FOLLOWS:
IN AREA B TO CIRCUIT E2PA-36, E2PB-31, E2PC-31 OR E2PE-21.
IN AREA C TO CIRCUIT K1L-7.
IN AREA D TO CIRCUIT E4PA-37, E5PA-45 OR E5PB-41.
IN AREA E TO CIRCUIT E4PA-39, E4PB-41 OR E5PA-47.
EACH CIRCUIT TO BE 2#12+G. IN 3/4"C. REFER TO CELL VALVE CONTROLLER (CVC) CONNECTION DETAIL #5 ON SHEET E-804. COORDINATE CONTROLLER LOCATIONS BEFORE ROUGH-IN.

KEY PLAN



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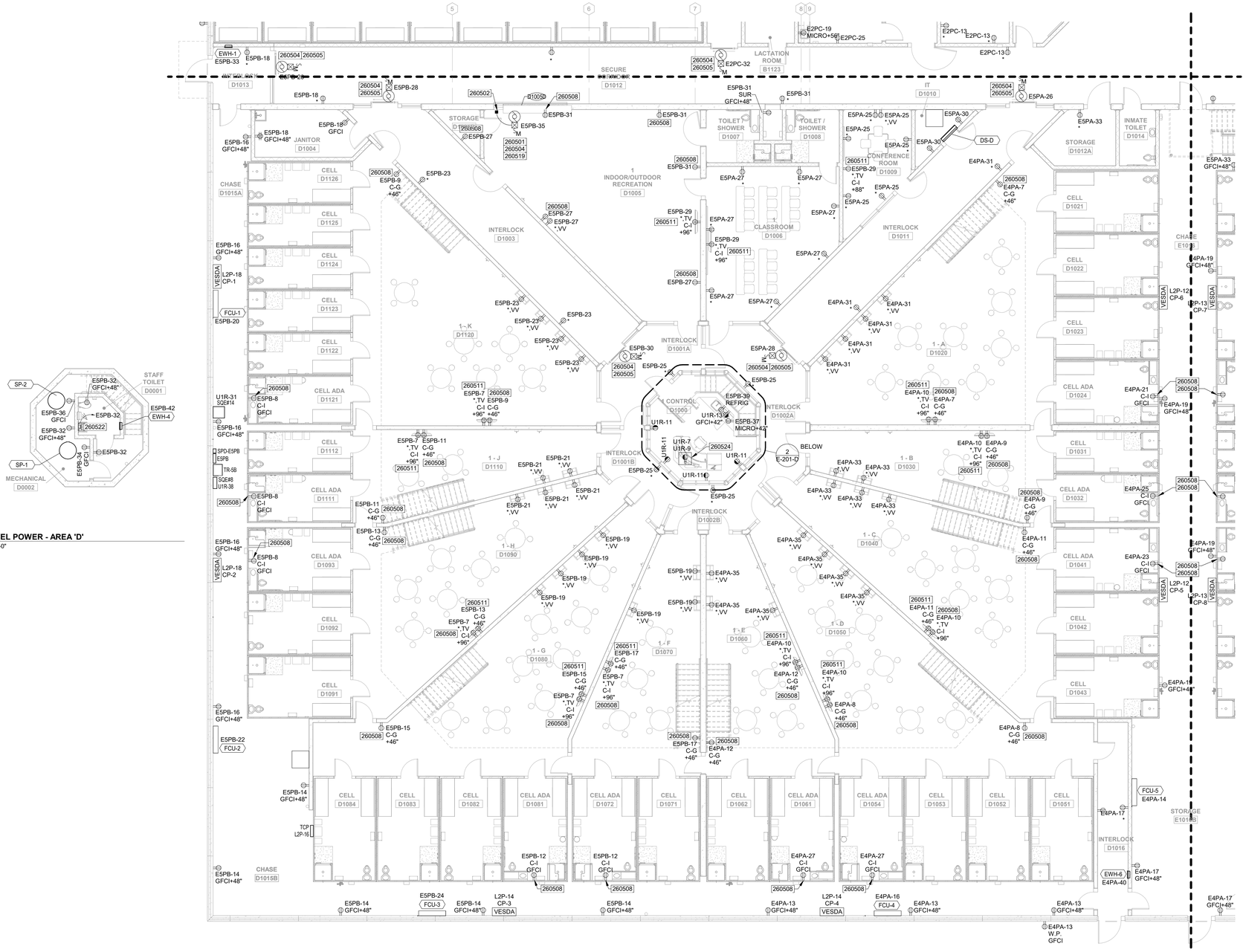
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RDW CHKD: MLH
DESIGNED: RDW
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR POWER PLAN - AREA C

DRAWING NUMBER E-201-C
ELECTRICAL



2 LOWER LEVEL POWER - AREA 'D'
E-201-D SCALE: 1/8" = 1'-0"
NORTH

1 FIRST FLOOR POWER - AREA 'D'
E-201-D SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. FOR PANELBOARD SCHEDULES, SEE DRAWINGS E-701, E-702, E-703, E-704, E-705, E-706 AND E-707.

B. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTIONS SCHEDULE ON DRAWINGS E-604 & E-605 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL EQUIPMENT REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND EQUIPMENT NAMEPLATE ELECTRICAL LOAD INFORMATION (I.E. VOLTS, PHASE, FLA, MOCP, ETC.).

C. CONTRACTOR SHALL FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

D. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

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EACH CIRCUIT TO BE 2#12+G. IN 3/4"C. REFER TO CELL VALVE CONTROLLER (CVC) CONNECTION DETAIL #5 ON SHEET E-804. COORDINATE CONTROLLER LOCATIONS BEFORE ROUGH-IN.

POWER KEYNOTES 260S##

260501 FURNISH AND INSTALL POWER (20A, 120V) AND CONTROL WIRING FOR OVERHEAD DOOR CONTROLLERS. DOOR SAFETIES/LIMIT SWITCHES AND KEYED OPEN-STOP-CLOSE PUSHBUTTON CONTROLLER STATIONS (WHERE INDICATED) FURNISHED BY OVERHEAD DOOR EQUIPMENT VENDOR. REFER TO SPECIFICATION 083613 "SECTIONAL DOORS" FOR DETAILED REQUIREMENTS. INSTALL DOOR SAFETIES/LIMIT SWITCHES, DOOR STARTER/CONTROLLER, AND PUSHBOTTON CONTROL STATION PER MANUFACTURERS RECOMMENDATION. FURNISH AND INSTALL ALL CABLING/CONDUIT REQUIRED FOR COMPLETE SYSTEM. FIELD-COORDINATE THE EQUIPMENT INSTALLATION AND CABLING/CONDUIT REQUIREMENTS WITH THE DOOR EQUIPMENT VENDOR PRIOR TO CONSTRUCTION.

260502 OVERHEAD DOOR SAFETY INTERLOCK DEVICES FURNISHED BY OVERHEAD DOOR VENDOR, INSTALLED BY CONTRACTOR.

260504 FURNISH AND INSTALL CONDUIT (3/4"C.) FROM EACH DOOR STARTER/CONTROLLER TO SECURITY CONTROL PANEL FOR ACCESS CONTROL WIRING. WIRING AND TERMINATIONS BY OTHERS. REFER TO SECURITY SERIES SHEETS FOR DETAILED WIRING REQUIREMENTS.

260505 FURNISH AND INSTALL POWER (1/8HP, 120V) FOR SLIDING DOOR CONTROLLERS, DOOR SAFETIES/LIMIT SWITCHES AND KEYED OPEN-CLOSE PUSHBUTTON CONTROL STATIONS FURNISHED BY DOOR EQUIPMENT VENDOR. CONTROL WIRING BY OTHERS. REFER TO SPECIFICATION 087100 "DOOR HARDWARE" FOR DETAILED REQUIREMENTS. INSTALL DOOR SAFETIES/LIMIT SWITCHES AND CONTROL SWITCH(S) PER MANUFACTURERS RECOMMENDATION. FURNISH AND INSTALL CONDUIT/POWER WIRING REQUIRED FOR A COMPLETE SYSTEM. FIELD-COORDINATE THE EQUIPMENT INSTALLATION AND CONDUIT REQUIREMENTS WITH THE DOOR EQUIPMENT VENDOR PRIOR TO CONSTRUCTION.

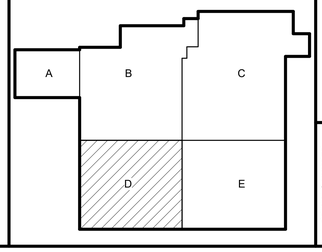
260508 FURNISH AND INSTALL RECEPTACLE IN CUSTOM FLUSH MOUNTED, LOCKABLE WALL CABINET. FOR CABINET DETAIL, SEE SHEET E-801, DETAIL #4.

260511 RECEPTACLE INDIVIDUALLY CONTROLLED BY SECURITY ELECTRONIC CABINET RELAY. REFER TO SECURITY EQUIPMENT PLANS AND DIVISION 28 SPECIFICATIONS FOR DETAILED WIRING REQUIREMENTS.

260519 CONTROL SWITCH(S) TO BE LOCATED IN CONTROL #D1000, COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

260524 FURNISH AND INSTALL 8-GANG FLOOR BOX, LIKE LEGRAND/WIREMOLD #EFB8S OR APPROVED EQUAL WITH TWO (2) #EFB-8M 4-GANG MOUNTING BRACKETS, ONE (1) #EFB610BTXX FLUSH STYLE COVER LID WITH FINISH PER ARCHITECT. BOX TO HAVE SIX (6) DEVICE PLATES WITH SIX (6) 20A DUPLEX RECEPTACLES, ONE (1) #EFB-B BLANK DEVICE PLATE AND ONE (1) COMMUNICATIONS OUTLETS. REFERENCE KEYNOTE #270511 ON E-401 SERIES SHEETS. VERIFY EXACT LOCATION WITH ARCHITECT BEFORE ROUGH-IN. ROUTE (2)-3/4"C. FROM BOX OVER AND UP NEAREST WALL FOR POWER. PROVIDE A MAXIMUM OF (3) RECEPTACLES PER CIRCUIT.

KEY PLAN



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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK
REGISTERED
PE60018675
STATE OF
INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR AND LOWER LEVEL POWER PLANS - AREA D

DRAWING NUMBER E-201-D
ELECTRICAL

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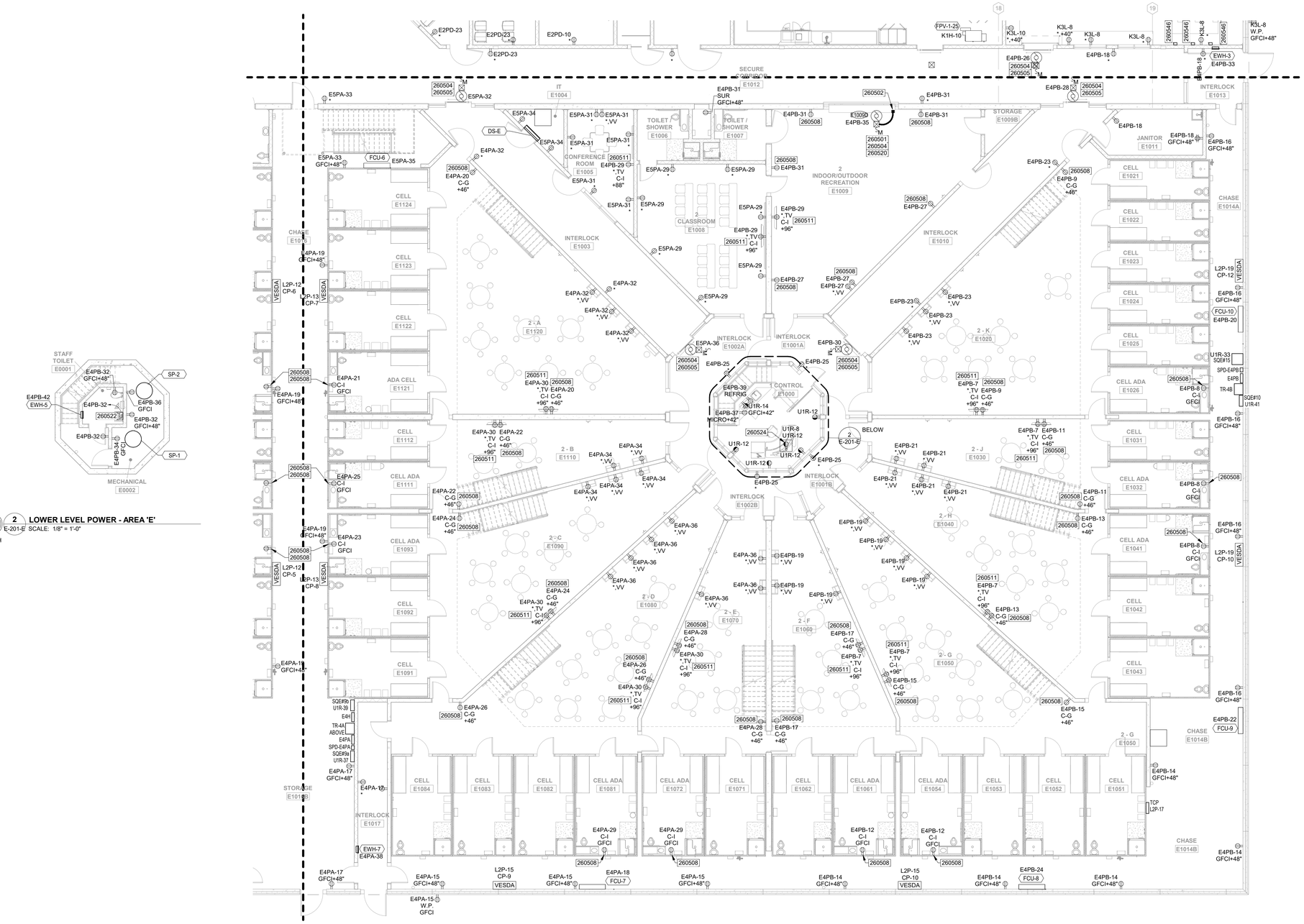

2 E-201-E LOWER LEVEL POWER - AREA 'E'
SCALE: 1/8" = 1'-0"

1 E-201-E FIRST FLOOR POWER - AREA 'E'
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. FOR PANELBOARD SCHEDULES, SEE DRAWINGS E-701, E-702, E-703, E-704, E-705, E-706 AND E-707.

B. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTIONS SCHEDULE ON DRAWINGS E-604 & E-605 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL EQUIPMENT REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND EQUIPMENT NAMEPLATE ELECTRICAL LOAD INFORMATION (I.E. VOLTS, PHASE, FLA, MOCP, ETC.).

C. CONTRACTOR SHALL FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

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F. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 "JOINT SEALANTS" FOR DETAILED REQUIREMENTS FOR SEALANT(S).

G. WATER MANAGEMENT SYSTEM TO BE PROVIDED BY OTHERS. CONNECT ALL VALVE CONTROLLERS AS FOLLOWS:
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EACH CIRCUIT TO BE 2#12+G. IN 3/4"C. REFER TO CELL VALVE CONTROLLER (CVC) CONNECTION DETAIL #5 ON SHEET E-804. COORDINATE CONTROLLER LOCATIONS BEFORE ROUGH-IN.

POWER KEYNOTES

2605##

260501 FURNISH AND INSTALL POWER (20A, 120V) AND CONTROL WIRING FOR OVERHEAD DOOR CONTROLLERS. DOOR SAFETIES/LIMIT SWITCHES AND KEYED OPEN-STOP-CLOSE PUSHBUTTON CONTROLLER STATIONS (WHERE INDICATED) FURNISHED BY OVERHEAD DOOR EQUIPMENT VENDOR. REFER TO SPECIFICATION 083613 "SECTIONAL DOORS" FOR DETAILED REQUIREMENTS. INSTALL DOOR SAFETIES/LIMIT SWITCHES, DOOR STARTER/CONTROLLER, AND PUSHBOTTON CONTROL STATION PER MANUFACTURERS RECOMMENDATION. FURNISH AND INSTALL ALL CABLING/CONDUIT REQUIRED FOR COMPLETE SYSTEM. FIELD-COORDINATE THE EQUIPMENT INSTALLATION AND CABLING/CONDUIT REQUIREMENTS WITH THE DOOR EQUIPMENT VENDOR PRIOR TO CONSTRUCTION.

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260508 FURNISH AND INSTALL RECEPTACLE IN CUSTOM FLUSH MOUNTED, LOCKABLE WALL CABINET. FOR CABINET DETAIL, SEE SHEET E-801, DETAIL #4.

260511 RECEPTACLE INDIVIDUALLY CONTROLLED BY SECURITY ELECTRONIC CABINET RELAY. REFER TO SECURITY EQUIPMENT PLANS AND DIVISION 28 SPECIFICATIONS FOR DETAILED WIRING REQUIREMENTS.

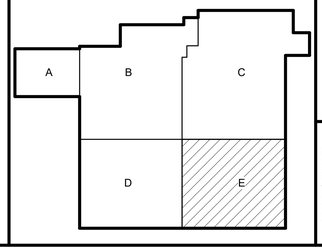
260520 CONTROL SWITCH(S) TO BE LOCATED IN CONTROL #E1000, COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

260522 AUTOMATIC FLUSH VALVE. REFER TO AUTOMATIC ELECTRIC FLUSH VALVE DETAIL #2 ON SHEET E-801.

260524 FURNISH AND INSTALL 8-GANG FLOOR BOX, LIKE LEGRAND/WIREMOLD #EFB8S OR APPROVED EQUAL WITH TWO (2) #EFB-8M 4-GANG MOUNTING BRACKETS, ONE (1) #EFB610BTXX FLUSH STYLE COVER LID WITH FINISH PER ARCHITECT. BOX TO HAVE SIX (6) DEVICE PLATES WITH SIX (6) 20A DUPLEX RECEPTACLES, ONE (1) #EFB-B BLANK DEVICE PLATE AND ONE (1) COMMUNICATIONS OUTLETS. REFERENCE KEYNOTE #270511 ON E-401 SERIES SHEETS. VERIFY EXACT LOCATION WITH ARCHITECT BEFORE ROUGH-IN. ROUTE (2)-3/4"C. FROM BOX OVER AND UP NEAREST WALL FOR POWER. PROVIDE A MAXIMUM OF (3) RECEPTACLES PER CIRCUIT.

260546 FURNISH AND INSTALL 240VAC, 3-POLE, 30A HEAVY DUTY NON-FUSED SAFETY DISCONNECT SWITCH IN NEMA 4X STAINLESS STELL ENCLOSURE WITH KEY INTERLOCK SYSTEM. CONNECT TO CIRCUIT SHOWN USING 3#10+G. IN 3/4"C. PROVIDE CONNECTION AS NEEDED BETWEEN DISCONNECT AND WASHER.

KEY PLAN



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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PROFESSIONAL ENGINEER PE00018675 STATE OF INDIANA

NO.	REVISION	DATE

DRAWN: RGW CHK'D: MLH
DESIGNED: RGW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR AND LOWER LEVEL POWER PLANS - AREA E

DRAWING NUMBER E-201-E
ELECTRICAL

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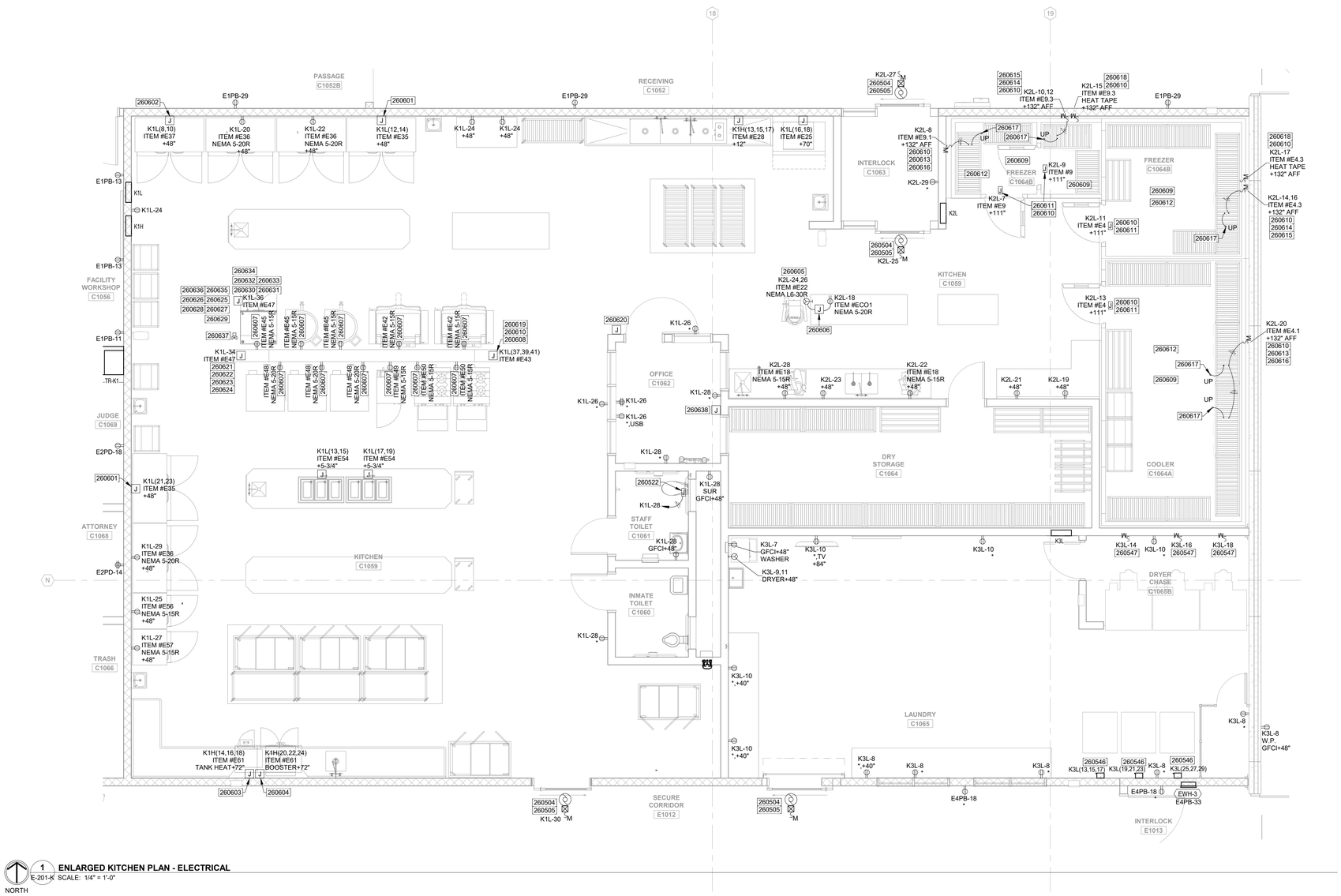

1 ENLARGED KITCHEN PLAN - ELECTRICAL
E-201-K SCALE: 1/4" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL KITCHEN ELECTRICAL DETAILS AND INTERCONNECTION WIRING REQUIREMENTS.

B. FIELD COORDINATE EXACT RECEPTACLE NEMA CONFIGURATIONS REQUIRED FOR KITCHEN EQUIPMENT PLUGS PRIOR TO CONSTRUCTION. PROVIDE CORD AND PLUG SETS WHERE REQUIRED FOR FINAL CONNECTION OF EQUIPMENT.

C. FIELD COORDINATE EXACT RECEPTACLE AND/OR EQUIPMENT CONNECTION LOCATIONS WITH FOOD SERVICE EQUIPMENT CONTRACTOR PRIOR TO CONSTRUCTION.

D. MINIMIZE CONDUIT PENETRATIONS. REFER TO ARCHITECTURAL SPECIFICATIONS AND PLANS FOR SEALANT REQUIREMENTS.

E. ALL CIRCUITS THIS DRAWING FED FROM PANELBOARD 'K1H', 'K1L' OR 'K2L' U.O.N.

F. ALL 20A, 120V DUPLEX RECEPTACLES IN KITCHEN ROOM #C1059 SHALL BE NON-FEED-THRU GFCI TYPE, U.O.N. WITH VANDALPROOF STYLE RECEPTACLE FACEPLATE

G. PROVIDE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT. ALL FINAL DIRECT CONNECTIONS OF EQUIPMENT SHALL BE RUN IN FLEXIBLE "LIQUID-TIGHT" CONDUIT WITH NEOPRENE JACKET.

H. PROVIDE SHUNT-TRIP CIRCUIT BREAKERS TO SHUT OFF FUEL VALVE(S), ELECTRICAL POWER AND CONTROL SOURCE TO ALL COOKING APPLIANCES LOCATED UNDER THE EXHUAST HOOD(S). SHUNT-TRIP BREAKERS SHALL BE INTERLOCKED WITH THE MICRO SWITCH OF THE FIRE PROTECTIONS SYSTEM. THE SHUNT-TRIP BREAKERS SHALL OPEN ON ACTUATION OF THE FIRE PROTECTION SYSTEM AND CAUSE ALL POWER TO THE COOKING EQUIPMENT TO BE SHUT OFF. REFER TO DETAILS #3 AND #4 ON DRAWING E-801.

I. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE.

J. ALL DEVICES IN KITCHEN SHALL BE VANDAL RESISTANT STYLE.

K. REFER TO DRAWING E-203 OR KITCHEN ROOFTOP EQUIPMENT.

KITCHEN KEYNOTES 2606##

260601 CONNECT TO CIRCUIT SHOWN WITH 2#12+G. IN 3/4"C.
260602 CONNECT TO CIRCUIT SHOWN WITH 3#12+G. IN 3/4"C.
260603 CONNECT TO CIRCUIT SHOWN WITH 3#6+#6G. IN 1"C.
260604 CONNECT TO CIRCUIT SHOWN WITH 3#8+#8G. IN 3/4"C.
260605 CONNECT TO CIRCUIT SHOWN WITH 2#10+#10G. IN 3/4"C.
260606 FLOOR MOUNTED JUNCTION BOX. REFER TO DETAIL #1 ON FS101. PROVIDE FLEX CONNECTION PER SPECIFICAITON FROM FLOOR MOUNTED JUNCTION BOX TO ITEM #E22 AND #ECO1 DEVICES.
260607 DEVICE POWERED FROM UTILITY DISTRIBUTION SYSTEM (UDS) (ITEM #E43). CONNECT TO UDS USING 2#12+G. IN 3/4"C.
260608 ITEM #E43 - UTILITY DISTRIBUTION SYSTEM (UDS) BY FOOD SERVICE EQUIPMENT SUPPLIER.
260609 PROVIDE CONDENSATE SEAL-OFF FITTING AT ALL TRANSITIONS BETWEEN DIFFERENT AMBIENT TEMPERATURES.
260610 FEED POWER TO EQUIPMENT FROM ABOVE.
260611 PROVIDE INTER CONNECTION AS REQUIRED TO DOOR LIGHT, HEATER AND ADDITIONAL LIGHT FITURES.
260612 COMPRESSOR LOCATED ON ROOF ABOVE FREEZER/COOLER UNITS. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT LOCATION. REFER TO DRAWING E-203 FOR ADDITIONAL REQUIREMENTS.
260613 MANUAL MOTOR STARTER WITH 20A, 240VAC, 1P TOGGLE SWITCH DISCONNECT, RED (ON) LED PILOT LIGHT, IN NEMA 4X STAINLESS STEEL ENCLOSURE. CONNECT TO CIRCUIT AS SHOWN USING 2#12+G, IN 3/4"C.
260614 MANUAL MOTOR STARTER WITH 20A, 240VAC, 2P TOGGLE SWITCH DISCONNECT, RED (ON) LED PILOT LIGHT, IN NEMA 4X STAINLESS STEEL ENCLOSURE. CONNECT TO CIRCUIT AS SHOWN USING 2#12+G. IN 3/4"C.
260615 LOCATE MANUAL MOTOR STARTER ADJACENT TO FREEZER COIL (INSIDE WALK-IN COOLER). MOUNT INDEPENDENT OF COIL TO COOLER ENCLOSURE PER MANUFACTURER DIRECTIONS. PROVIDE WEATHERPROOF ENCLOSURE.
260616 LOCATE MANUAL MOTOR STARTER ADJACENT TO COOLER COIL (INSIDE WALK-IN COOLER). MOUNT INDEPENDENT OF COIL TO COOLER ENCLOSURE PER MANUFACTURER DIRECTIONS. PROVIDE WEATHERPROOF ENCLOSURE.
260617 3/4"C. BETWEEN COMPRESSOR AND COIL FOR CONTROL CABLING. CONTROL CABLING AS REQUIRED BY EQUIPMENT MANUFACTURER.
260618 PROVIDE CONNECTION TO DRAIN LINE HEAT TAPE AS NEEDED BETWEEN SWITCH AND TAPE.
260619 CONNECT TO CIRCUIT SHOWN WITH 3#3+#6G. IN 1-1/4"C.
260620 FURNISH AND INSTALL OCTAGONAL BOX FOR FIRE PULL STATION AT +48" AFF WITH 1/2"C. FROM TOP OF BOX TO HOOD FIRE SUPPRESSION CABINET. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN. PULL STATION SHALL BE LOCATED NO LESS THAN 10'-0" AND NO GREATER THAN 20'-0" FROM ANSUL/HOOD AND LOCATED ALONG PATH OF EGRESS.
260621 HOOD FIRE SUPPRESSION SYSTEM, CIRCUIT AS SHOWN USING 2#12+G. IN 3/4"C. VERIFY EXACT LOCATION BEFORE ROUGH-IN.
260622 PROVIDE 3/4"C. FROM FIRE SYSTEM MICROSWITCH ABOVE HOOD TO UTILITY DISTRIBUTION SYSTEM (UDS) FOR SHUNT TRIP BREAKER CONTROL WIRING. WIRING AS REQUIRED BY EQUIPMENT MANUFACTURER.
260623 PROVIDE 3/4"C. FROM FIRE SYSTEM MICROSWITCH ABOVE HOOD TO FACP, IN ELECTRICAL #C1054, FOR FIRE SUPPRESSION MONITORING WIRING. WIRING AS REQUIRED BY EQUIPMENT MANUFACTURER.
260624 PROVIDE 3/4"C. FROM FIRE SYSTEM MICROSWITCH ABOVE HOOD TO HOOD MAKE-UP AIR FAN TO SHUT DOWN RETURN AIR FAN AS NEEDED. WIRING AS REQUIRED BY EQUIPMENT MANUFACTURER.
260625 PROVIDE 4 SQ. JUNCTION BOX ABOVE HOOD FOR CONNECTION OF HOOD LIGHTS.
260626 ITEM #40A - PROVIDE 3/4"C. BETWEEN HOOD CONTROL PANEL AND JUNCTION BOX ABOVE HOOD FOR HOOD LIGHT WIRING, REFERENCE NOTE #K13. PROVIDE FINAL CONNECTION AS NEEDED TO HOOD LIGHTS.
260627 ITEM #40D - PROVIDE 3/4"C. BETWEEN HOOD CONTROL PANEL AND HOOD FIRE SUPPRESSION SYSTEM PANEL FOR CONTROL WIRING, CONTROL CABLING AS REQUIRED BY EQUIPMENT MANUFACTURER.
260628 ITEM #40E - PROVIDE 3/4"C. BETWEEN HOOD CONTROL PANEL AND DUCT SENSORS AT TOP OF EACH HOOD SECTION FOR CONTROL WIRING, CONTROL CABLING AS REQUIRED BY EQUIOPMENT MANUFACTURER. VERIFY EXACT SENSOR LOCATION.
260629 ITEM #40F - PROVIDE 3/4"C. BETWEEN HOOD CONTROL PANEL AND KITCHEN TEMPERATURE SENSOR FOR CONTROL WIRING, CONTROL CABLING AS REQUIRED BY EQUIPMENT MANUFACTURER. VERIFY EXACT SENSOR LOCATION.
260630 HOOD MAKE-UP AIR UNIT AND EXHAUST FAN LOCATED ON ROOF ABOVE, REFER TO SHEET E2.3 FOR MORE INFORMATION.
260631 PROVIDE WIRING AS NEEDED BETWEEN HOOD CONTROL PANEL AND HOOD MAKE-UP AIR UNIT VFD DRIVE. VFD QUICK CONNECTOR TO BE INCLUDED IN CONTROL PANEL, COORDINATE WITH EQUIPMENT MANUFACTURER. WIRE PER MANUFACTURER'S RECOMMENDATION.
260632 PROVIDE WIRING AS NEEDED BETWEEN HOOD CONTROL PANEL AND HOOD EXHAUST FAN VFD DRIVE. VFD QUICK CONNECTOR TO BE INCLUDED IN CONTROL PANEL, COORDINATE WITH EQUIPMENT MANUFACTURER. WIRE PER MANUFACTURER'S RECOMMENDATION.
260633 FURNISH AND INSTALL SEPARATE 120VAC INPUT TO HOOD SUPPLY FAN. CONNECT TO CIRCUIT K1L-31 USING 2#12+G. IN 3/4"C.
260634 PROVIDE 3/4"C. BETWEEN EXHAUST FAN AND HOOD FOR CONTROL WIRING, CONTROL CABLING AS REQUIRED BY EQUIPMENT MANUFACTURER.
260635 FURNISH AND INSTALL (1) CAT.6 CABLE TO CASELINK MONITOR AND CONTROL SYSTEM UNDER HOOD.
260636 FURNISH AND INSTALL POWER (120VAC) TO MOTORZIED DAMPERS. CONNECT TO CIRCUIT K1L-32 USING 2#12+G. IN 3/4"C. VERIFY EXACT LOCATION OF DAMPERS BEFORE ROUGH-IN.
260637 GAS SHUTOFF SOLENOID VALVE SHALL BE DE-ENERGIZED (VIA SHUNT TRIP BRANCH CIRCUIT BREAKER) UPON HOOD ANSUL ACTIVATION. FIELD COORDINATE/VERIFY SOLENOID VOLTAGE PRIOR TO CONSTRUCTION. REFER TO DETAIL #3 ON SHEET E-801.
260638 INSTALL REMOTE GAS VALVE SHUT-OFF CONTROL STATION FURNISHED BY KITCHEN EQUIPMENT VENDOR. WALL MOUNT 48" AFF AND PROVIDE EMERGENCY INSTRUCTION SIGNAGE ADJACENT TO CONTROL STATION. INTERLOCK SO THAT GAS VALVE OPENS UPON CONTROL STATION ACTIVATION AND/OR HOOD ANSUL ACTIVATION. REFER TO DETAIL #3 ON SHEET E-801.

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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK
REGISTERED
PE60018675
STATE OF
INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ENLARGED KITCHEN PLAN - ELECTRICAL

DRAWING NUMBER
E-201-K
ELECTRICAL

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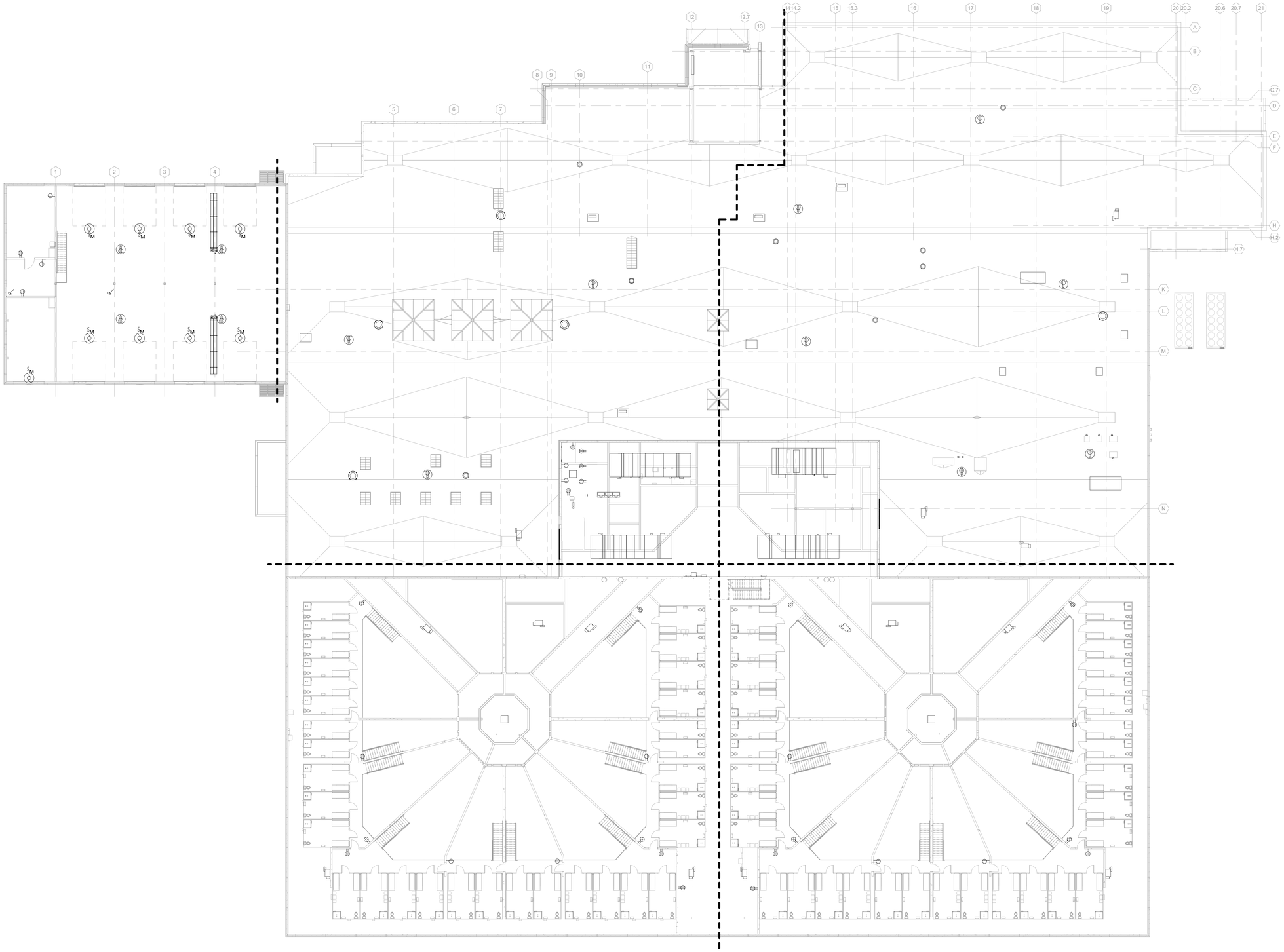

1 E-202 **MEZZANINE POWER PLAN - OVERALL**
SCALE: 1/16" = 1'-0"
NORTH

THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY - SEE SHEETS E-202-D AND E-202-E FOR DETAILED REQUIREMENTS AND KEYED NOTES FOR POWER.

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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PROFESSIONAL ENGINEER PE60016675 STATE OF INDIANA

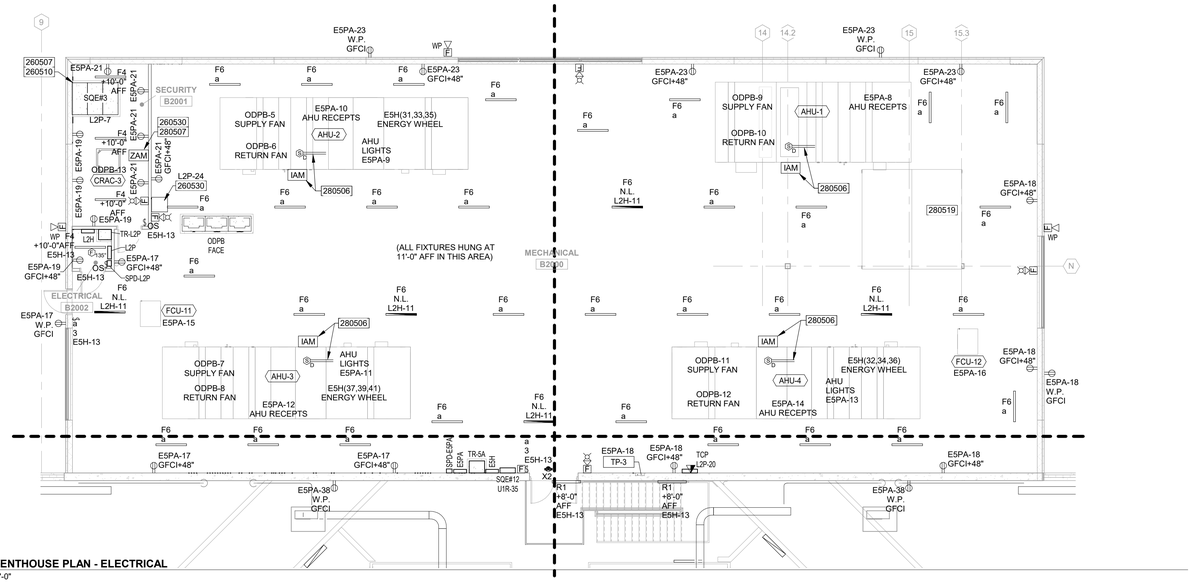
NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE POWER PLAN - OVERALL

DRAWING NUMBER
E-202
ELECTRICAL



1 OVERALL PENTHOUSE PLAN - ELECTRICAL
E-202-BC SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. FOR PANELBOARD SCHEDULES, SEE DRAWINGS E-701, E-702, E-703, E-704, E-705, E-706 AND E-707.

B. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE ON DRAWINGS E-604 & E-605 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND LOAD INFORMATION.

C. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-606. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.

D. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

E. REFER TO SECURITY DRAWINGS, #SE SERIES, FOR ADDITIONAL REQUIREMENTS. PROVIDE BOXES AND RACEWAYS AS NEEDED FOR SECURITY EQUIPMENT.

F. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE.

G. REFER TO DRAWING E-803, DETAIL #10 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.

H. ALL FIRE ALARM CONDUITS SHALL BE FACTORY PAINTED "RED", ALL PULL/JUNCTION BOX COVERS SHALL BE FACTORY PAINTED RED.

I. ALL FIXTURES TO BE HUNG AT 11'-0" AFF IN MECHANICAL B2000.

PENTHOUSE KEYNOTES

2605##
2705##
2805##

260507 SECURITY EQUIPMENT RACKS (3 TOTAL), REFER TO SECURITY DRAWINGS. PROVIDE FOUR (5) 20A, 120V CIRCUITS FROM PANEL 'U1R' TO RACKS, CIRCUITS #28, 30, 32, 34, 36 AND THREE (3) 20A, 120V CIRCUITS FROM PANEL 'E5PA' TO RACKS, CIRCUITS #49, 51, 53. COORDINATE WITH SECURITY CONTRACTOR ON EXACT LOCATION OF CIRCUITS. PROVIDE 2#12+G IN 3/4"C. FOR EACH CIRCUIT.

260510 EQUIPMENT TO BE MOUNTED ON CONCRETE PAD, REFER TO STRUCTURAL DRAWING S-530, DETAILS #8 AND/OR #9 FOR CONCRETE PAD INSTALLATION DETAIL.

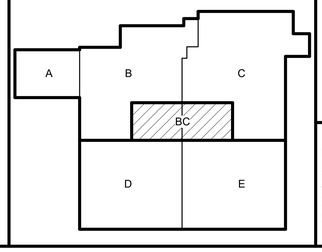
260530 PREACTION DRY-POWER SYSTEM, 120V. CONNECT TO CIRCUIT SHOWN USING 2#12+G. IN 3/4"C. COORDINATE EXACT LOCATION.

280506 ADDRESSABLE DUCT DETECTOR FURNISHED AND INSTALLED BY HVAC EQUIPMENT SUPPLIER. FURNISH AND INSTALL ONE (1) IAM MODULE AS NEEDED FOR INTERLOCKING/SHUTDOWN CONTROL OF AIR HANDLING UNIT UPON DUCT SMOKE DETECTION. LOCATE REMOTE TEST STATION FOR EACH AIR HANDLING UNIT IN MASTER CONTROL ROOM #B1026. REFER TO DRAWING E-401-B. FIELD COORDINATE PRIOR TO CONSTRUCTION EXACT QUANTITY OF DUCT DETECTORS; ONE (1) DUCT DETECTOR SHALL BE REQUIRED AT EACH RETURN DUCT TO THE AIR HANDLING UNIT. REFER TO HVAC PLANS FOR DUCTWORK LAYOUT/RETURN LOCATIONS. ALSO REFER TO DETAIL 7 ON DRAWING E-801 WIRING/INTERLOCKING/CONTROL REQUIREMENTS FOR ASSOCIATED SMOKE DAMPER(S) UPON DUCT DETECTOR SMOKE DETECTION AT AHU.

280507 ROOM CONTAINS SELF-CONTAINED DRY-POWDER FIRE SUPPRESSION SYSTEM. PROVIDE ZAM FOR ALARM MONITORING OF FIRE SUPPRESSION SYSTEM CONTROL PANEL BY FIRE ALARM CONTROL PANEL (FACP-1) LOCATED IN ELECTRICAL ROOM #C1054 AS RECOMMENDED BY SYSTEM MANUFACTURER. FURNISH CABLING AS REQUIRED IN 3/4"C. COORDINATE WITH MECHANICAL CONTRACTOR AND INSTALL/WIRE ALL ASSOCIATED ELECTRICAL APPURTENANCES AND DEVICES (I.E. SMOKE DETECTOR, PULL STATION, TELEPHONE OUTLET) TO FIRE SUPPRESSION PANEL AS NECESSARY AND AS REQUIRED BY FIRE SUPPRESSION SYSTEM MANUFACTURER.

280519 ROOF ACCESS HATCH. AVOID ROUTING PIPING, CONDUITS, ETC. IN CLEAR OPENING SPACE.

KEY PLAN



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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK 15th ERED. PE60016675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHKD: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PENTHOUSE PLAN - ELECTRICAL

DRAWING NUMBER
E-202-BC
ELECTRICAL

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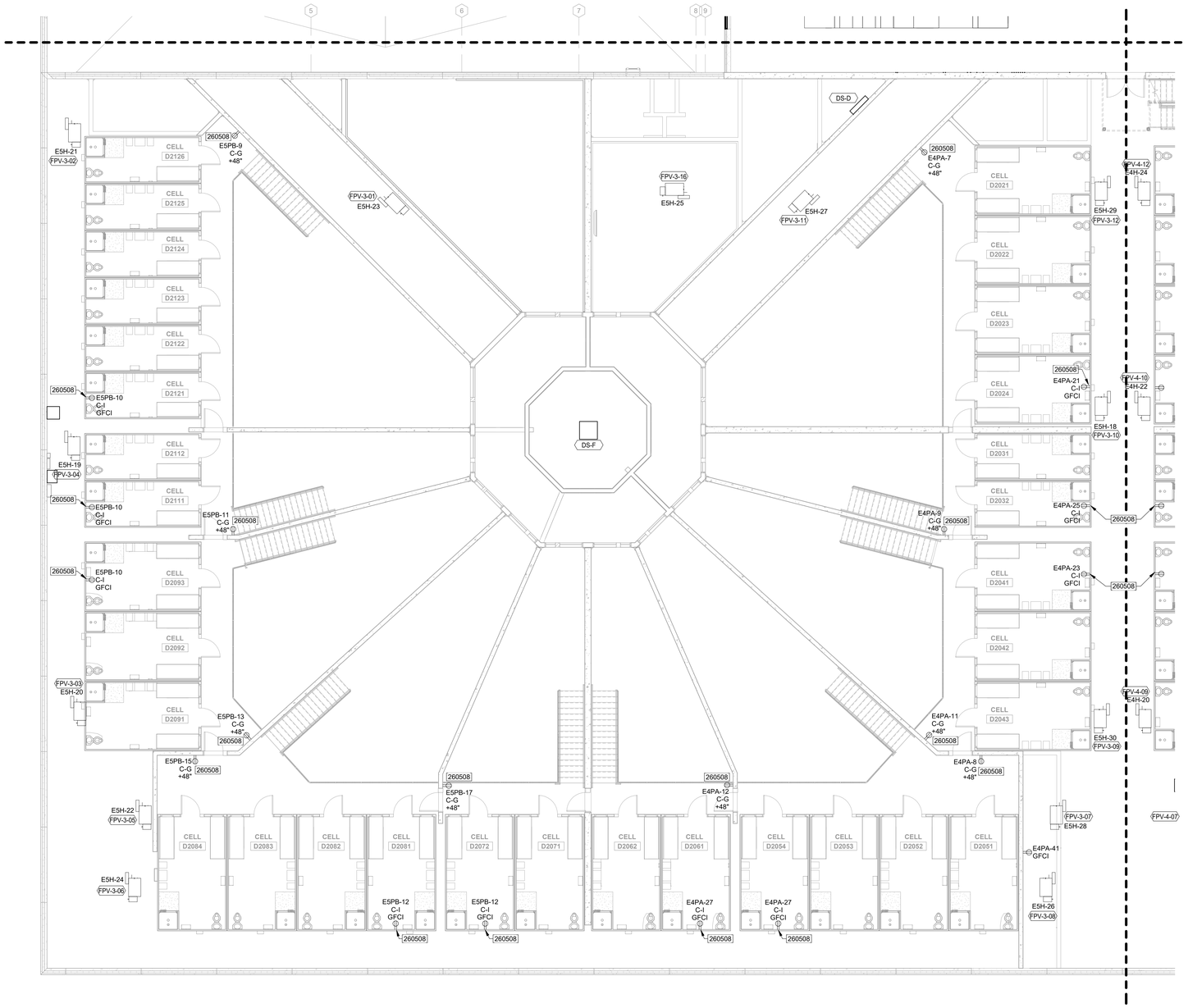


1 MEZZANINE POWER PLAN - AREA 'D'
E-202-D SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. FOR PANELBOARD SCHEDULES, SEE DRAWINGS E-701, E-702, E-703, E-704, E-705, E-706 AND E-707.

B. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTIONS SCHEDULE ON DRAWINGS E-604 & E-605 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL EQUIPMENT REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND EQUIPMENT NAMEPLATE ELECTRICAL LOAD INFORMATION (I.E. VOLTS, PHASE, FLA, MOCP, ETC.).

C. CONTRACTOR SHALL FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

D. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

E. REFER TO SECURITY DRAWINGS, #SE SERIES, FOR ADDITIONAL EQUIPMENT AND WIRING REQUIREMENTS. PROVIDE BOXES, RACEWAYS, CABLING, SUPPORTS, ETC. AS REQUIRED FOR SECURITY EQUIPMENT. REFER TO SPECIFICATION SECTIONS 078123 "INTUMESCENT FIREPROOFING" AND 078443 "JOINT FIRESTOPPING" FOR DETAIL FIRESTOP REQUIREMENTS.

F. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 "JOINT SEALANTS" FOR DETAILED REQUIREMENTS FOR SEALANT(S).

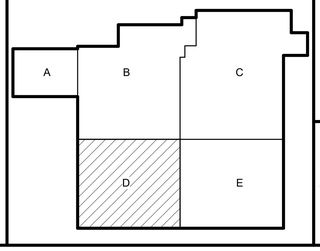
G. WATER MANAGEMENT SYSTEM TO BE PROVIDED BY OTHERS. CONNECT ALL VALVE CONTROLLERS AS FOLLOWS:
IN AREA B TO CIRCUIT E2PA-36, E2PB-31, E2PC-31 OR E2PE-21.
IN AREA C TO CIRCUIT K1L-7.
IN AREA D TO CIRCUIT E4PA-37, E5PA-45 OR E5PB-41.
IN AREA E TO CIRCUIT E4PA-39, E4PB-41 OR E5PA-47.
EACH CIRCUIT TO BE 2#12+G. IN 3/4"C. REFER TO CELL VALVE CONTROLLER (CVC) CONNECTION DETAIL #5 ON SHEET E-804. COORDINATE CONTROLLER LOCATIONS BEFORE ROUGH-IN.

POWER KEYNOTES

2605##

260508 FURNISH AND INSTALL RECEPTACLE IN CUSTOM FLUSH MOUNTED, LOCKABLE WALL CABINET. FOR CABINET DETAIL, SEE SHEET E-801, DETAIL #4.

KEY PLAN



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MARVIN L. HITCHCOCK
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PE60018675
STATE OF
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PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW | CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE POWER PLAN - AREA D

DRAWING NUMBER E-202-D
ELECTRICAL

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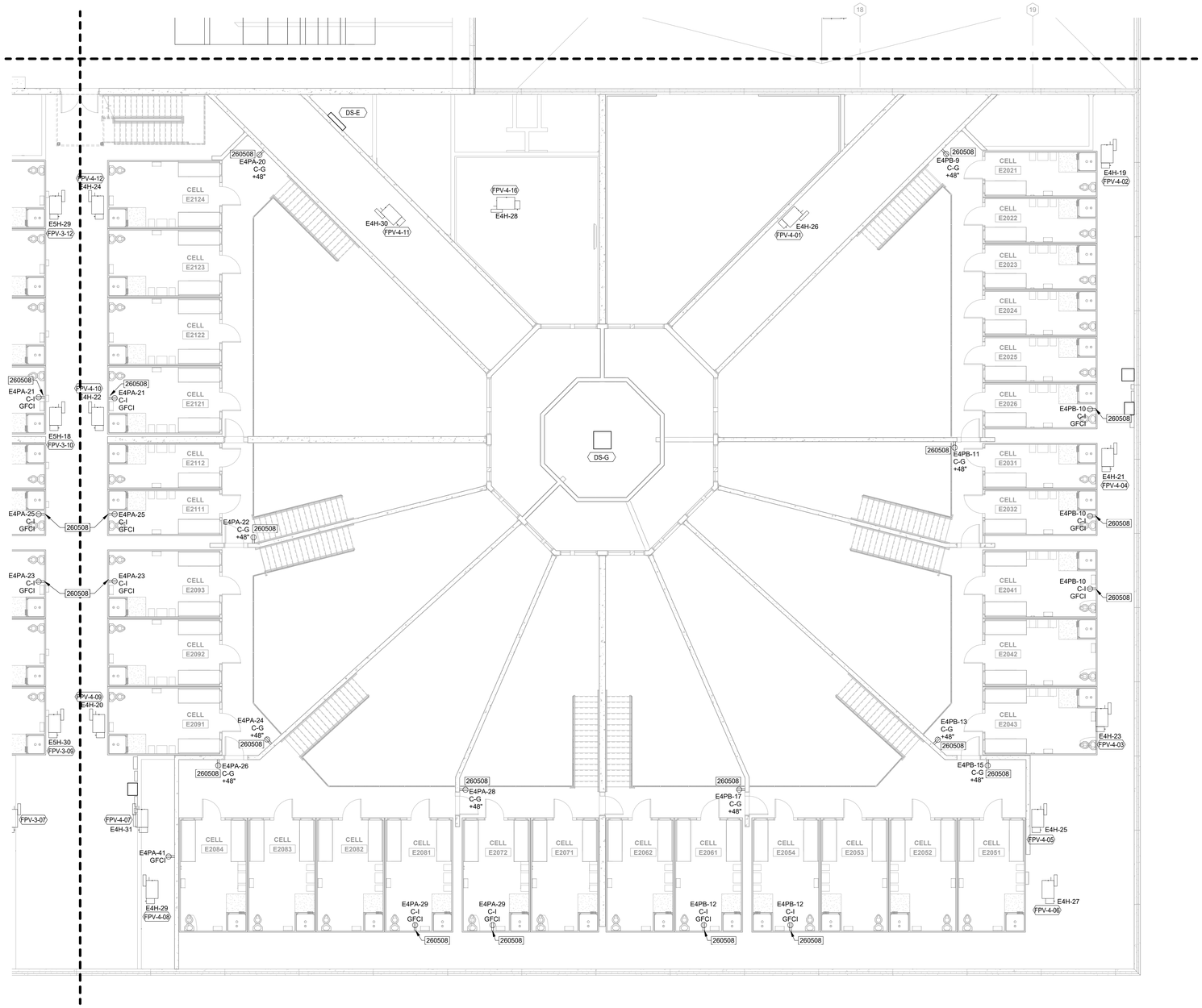


1 **MEZZANINE POWER PLAN - AREA 'E'**
E-202-E SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. FOR PANELBOARD SCHEDULES, SEE DRAWINGS E-701, E-702, E-703, E-704, E-705, E-706 AND E-707.

B. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTIONS SCHEDULE ON DRAWINGS E-604 & E-605 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL EQUIPMENT REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND EQUIPMENT NAMEPLATE ELECTRICAL LOAD INFORMATION (I.E. VOLTS, PHASE, FLA, MOCP, ETC.).

C. CONTRACTOR SHALL FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

D. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

E. REFER TO SECURITY DRAWINGS, #SE SERIES, FOR ADDITIONAL EQUIPMENT AND WIRING REQUIREMENTS. PROVIDE BOXES, RACEWAYS, CABLING, SUPPORTS, ETC. AS REQUIRED FOR SECURITY EQUIPMENT. REFER TO SPECIFICATION SECTIONS 078123 "INTUMESCENT FIREPROOFING" AND 078443 "JOINT FIRESTOPPING" FOR DETAIL FIRESTOP REQUIREMENTS.

F. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 "JOINT SEALANTS" FOR DETAILED REQUIREMENTS FOR SEALANT(S).

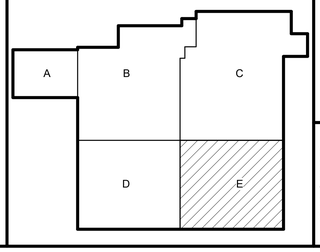
G. WATER MANAGEMENT SYSTEM TO BE PROVIDED BY OTHERS. CONNECT ALL VALVE CONTROLLERS AS FOLLOWS:
IN AREA B TO CIRCUIT E2PA-36, E2PB-31, E2PC-31 OR E2PE-21.
IN AREA C TO CIRCUIT K1L-7.
IN AREA D TO CIRCUIT E4PA-37, E5PA-45 OR E5PB-41.
IN AREA E TO CIRCUIT E4PA-39, E4PB-41 OR E5PA-47.
EACH CIRCUIT TO BE 2#12+G. IN 3/4"C. REFER TO CELL VALVE CONTROLLER (CVC) CONNECTION DETAIL #5 ON SHEET E-804. COORDINATE CONTROLLER LOCATIONS BEFORE ROUGH-IN.

POWER KEYNOTES

2605##

260508 FURNISH AND INSTALL RECEPTACLE IN CUSTOM FLUSH MOUNTED, LOCKABLE WALL CABINET. FOR CABINET DETAIL, SEE SHEET E-801, DETAIL #4.

KEY PLAN



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DRAWN: RDW CHKD: MLH
DESIGNED: RDW
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE POWER PLAN - AREA E

DRAWING NUMBER E-202-E
ELECTRICAL

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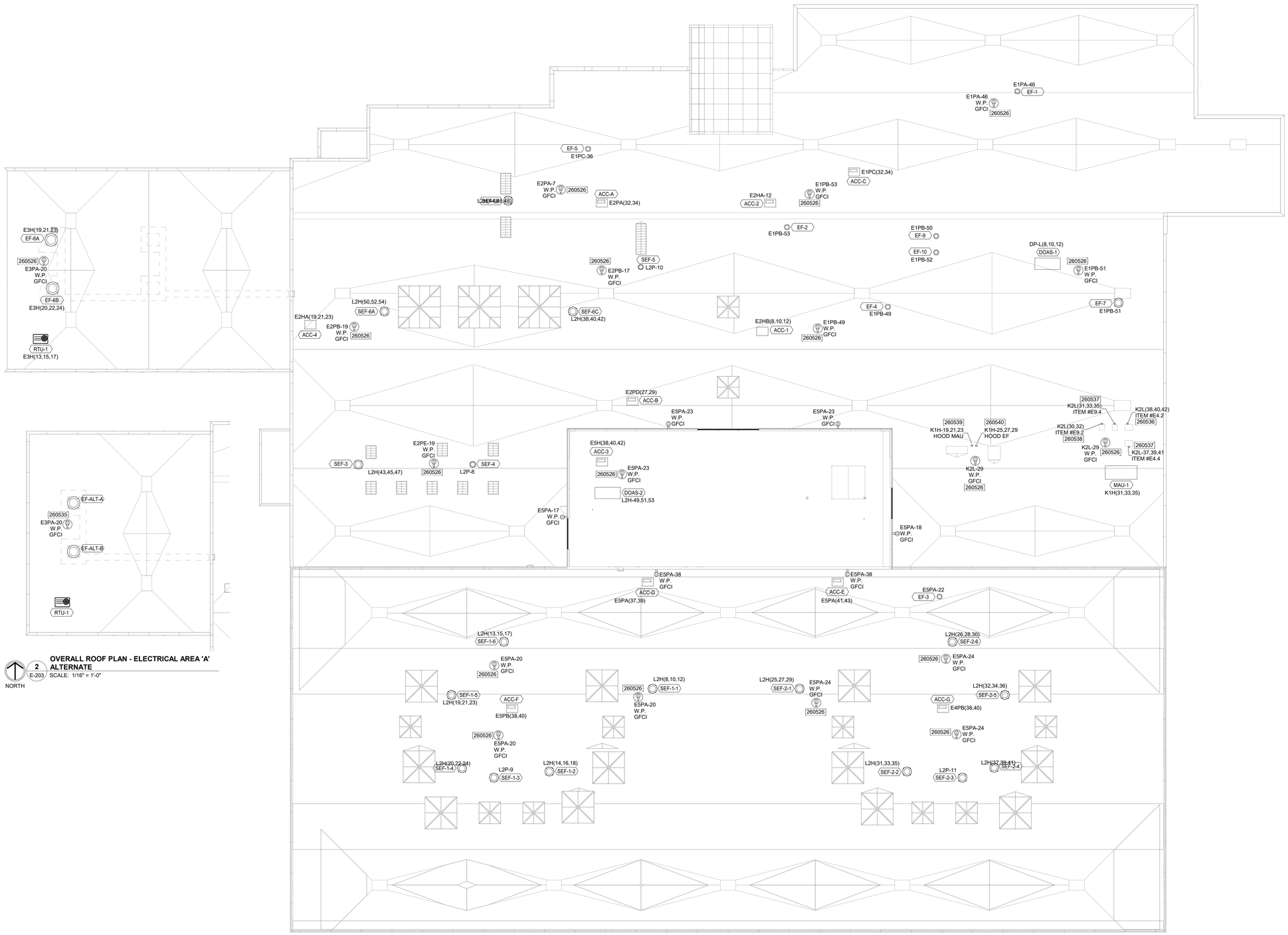


2 E-203 **OVERALL ROOF PLAN - ELECTRICAL AREA 'A' ALTERNATE**
SCALE: 1/16" = 1'-0"
NORTH

1 E-203 **OVERALL ROOF PLAN - ELECTRICAL**
SCALE: 1/16" = 1'-0"
NORTH

GENERAL NOTES

A. FOR PANELBOARD SCHEDULES, SEE SHEETS E-701, E-702, E-703, E-704, E-705, E-706 AND E-707.

B. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTIONS SCHEDULE ON DRAWINGS E-604 & E-605 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL EQUIPMENT REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND EQUIPMENT NAMEPLATE ELECTRICAL LOAD INFORMATION (I.E. VOLTS, PHASE, FLA, MOCP, ETC.).

C. REFER TO SECURITY DRAWINGS, #SE SERIES, FOR ADDITIONAL REQUIREMENTS. PROVIDE BOXES AND RACEWAYS AS NEEDED FOR SECURITY EQUIPMENT.

D. SUPPORT ALL EXPOSED CONDUITS ON ROOF. REFER TO ROOF CONDUIT SUPPORT DETAIL #6 ON DRAWING E-806.

ROOF KEYNOTES

2605##

260526 RECEPTACLE TO BE STANCHION MOUNTED WITH BOTTOM AT +12" ABOVE ROOF. PROVIDE GALVANIZED UNISTRUT SUPPORTS AS NEEDED.

260535 (ALTERNATE BID) RECEPTACLE TO BE STANCHION MOUNTED WITH BOTTOM AT +12" ABOVE ROOF. PROVIDE GALVZANIZED UNISTRUT SUPPORTS AS NEEDED.

260536 WALK-IN COOLER COMPRESSOR DISCONNECT, HEAVY DUTY 600VAC, 30A, 3-POLE NON-FUSED DISCONENCT SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE. DISCONNECT TO BE LOCATED ADJACENT TO COMPRESSOR, PROVIDE UNI-STRUT SUPPORTS AS NEEDED. MOUNT INDEPENENT OF COMPRESSOR. VERIFY EXACT LOCATION OF COMPRESSOR BEFORE ROUGH-IN. CONNECT TO CIRCUIT AS SHOWN USING 3#12+G. IN 3/4"C.

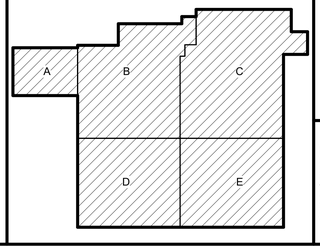
260537 WALK-IN FREEZER COMPRESSOR DISCONNECT, HEAVY DUTY 600VAC, 30A, 3-POLE NON-FUSED DISCONENCT SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE. DISCONNECT TO BE LOCATED ADJACENT TO COMPRESSOR, PROVIDE UNI-STRUT SUPPORTS AS NEEDED. MOUNT INDEPENENT OF COMPRESSOR. VERIFY EXACT LOCATION OF COMPRESSOR BEFORE ROUGH-IN. CONNECT TO CIRCUIT AS SHOWN USING 3#12+G. IN 3/4"C.

260538 WALK-IN COOLER COMPRESSOR DISCONNECT, HEAVY DUTY 600VAC, 30A, 2-POLE NON-FUSED DISCONENCT SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE. DISCONNECT TO BE LOCATED ADJACENT TO COMPRESSOR, PROVIDE UNI-STRUT SUPPORTS AS NEEDED. MOUNT INDEPENENT OF COMPRESSOR. VERIFY EXACT LOCATION OF COMPRESSOR BEFORE ROUGH-IN. CONNECT TO CIRCUIT AS SHOWN USING 2#12+G. IN 3/4"C.

260539 KITCHEN HOOD MAKE-UP AIR UNIT DISCONNECT, HEAVY DUTY 600VAC, 30A, 3-POLE NON-FUSED DISCONENCT SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE. DISCONNECT TO BE LOCATED ADJACENT TO UNIT, PROVIDE UNI-STRUT SUPPORTS AS NEEDED. MOUNT INDEPENENT OF UNIT. VERIFY EXACT LOCATION OF UNIT BEFORE ROUGH-IN. CONNECT TO CIRCUIT AS SHOWN USING 3#10+#10G. IN 3/4"C.

260540 KITCHEN HOOD EXHUAST FAN DISCONNECT, HEAVY DUTY 600VAC, 30A, 3-POLE NON-FUSED DISCONENCT SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE. DISCONNECT TO BE LOCATED ADJACENT TO FAN, PROVIDE UNI-STRUT SUPPORTS AS NEEDED. MOUNT INDEPENENT OF FAN. VERIFY EXACT LOCATION OF FAN BEFORE ROUGH-IN. CONNECT TO CIRCUIT AS SHOWN USING 3#12+G. IN 3/4"C.

KEY PLAN



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MARK W. HITCHCOCK
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PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

ROOF PLAN - ELECTRICAL

DRAWING NUMBER E-203

ELECTRICAL

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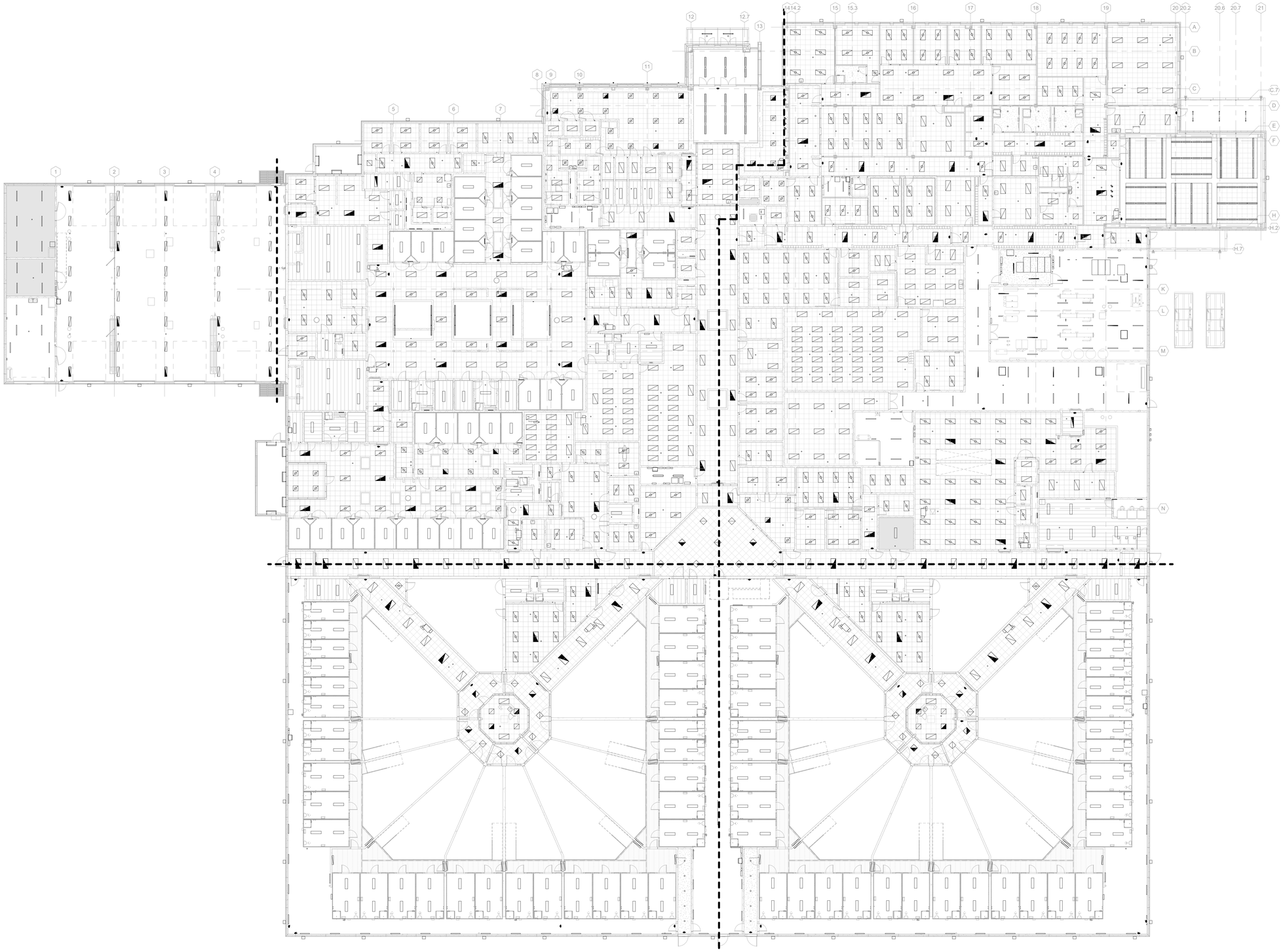


1 E-301 **FIRST FLOOR LIGHTING - OVERALL**
SCALE: 1/16" = 1'-0"

NORTH

THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY - SEE SHEETS E-301-A, E-301-B, E-301-C, E-301-D AND E-301-E FOR DETAILED REQUIREMENTS AND KEYED NOTES FOR POWER.

GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-606. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.

B. FOR OCCUPANCY SENSOR WIRING DETAIL, SEE DETAIL #6 ON DRAWING E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR FOR EXTERIOR LIGHTING. CONCEAL BY ROUTING ON INTERIOR AND PENETRATE THROUGH WALL AT EACH EXTERIOR FIXTURE LOCATION.

D. FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHT OF ALL FIXTURES TO AVOID MECHANICAL DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DETAIL #1 ON DRAWING E-802.

F. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

G. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED IN CENTER OF CEILING TILE U.O.N. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN.

H. OCCUPANCY SENSORS ARE SHOWN FOR PURPOSES OF IDENTIFYING ROOMS/AREAS WHERE REQUIRED. COORDINATE WITH MANUFACTURER ON QUANTITY AND LOCATIONS REQUIRED FOR COMPLETE COVERAGE.

I. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS. POWER PACKS ARE NOT SHOWN. FIELD COORDINATE LOCATIONS AND RECORD ON ELECTRICAL RECORD DRAWINGS.

J. CROSS HATCHED/SHADED FIXTURES = FIXTURES POWERED VIA EMERGENCY BACKUP GENERATOR FOR EMERGENCY EGRESS.

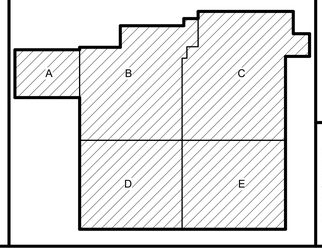
K. EM = EMERGENCY EGRESS FIXTURE. N.L. = NIGHT LIGHT

L. WHERE SWITCH CIRCUIT IS NOT INDICATED, ALL FIXTURES IN ROOM OR AREA SHALL BE ON SAME SWITCH CIRCUIT CONTROLLED BY LIGHTING CONTROL DEVICE INDICATED FOR THAT SPACE.

M. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE

N. AREAS/ROOMS WITH COLORED CEILING GRIDS SHOWN ARE FOR PURPOSES OF IDENTIFING "SECURITY" TYPE CEILINGS; NO JUNCTION BOXES SHALL BE INSTALLED ABOVE "SECURITY" TYPE CEILINGS UNLESS ATTACHED TO DEVICES MOUNTED IN/ON GRID.

KEY PLAN



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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK, III
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PE60018675
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PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: MHK-RD/ZHKD: MLH
DESIGNED: MHK-RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR LIGHTING PLAN - OVERALL

DRAWING NUMBER
E-301
ELECTRICAL

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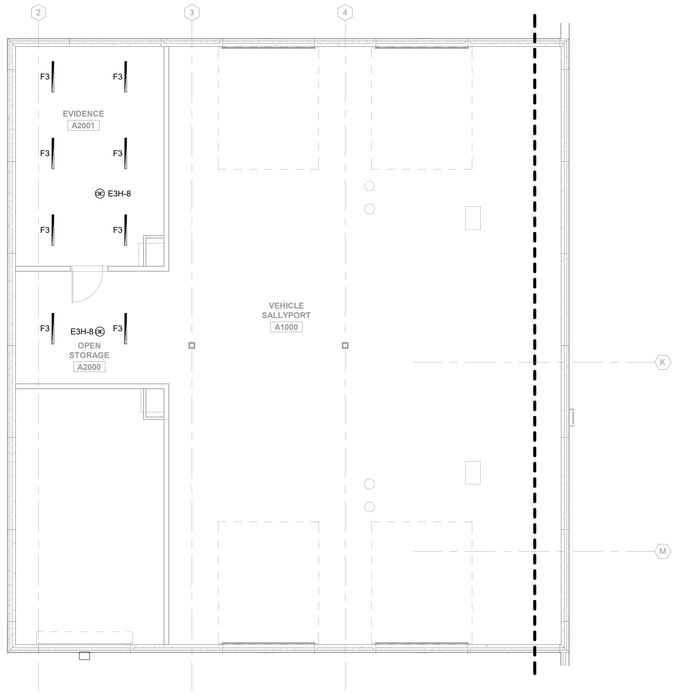
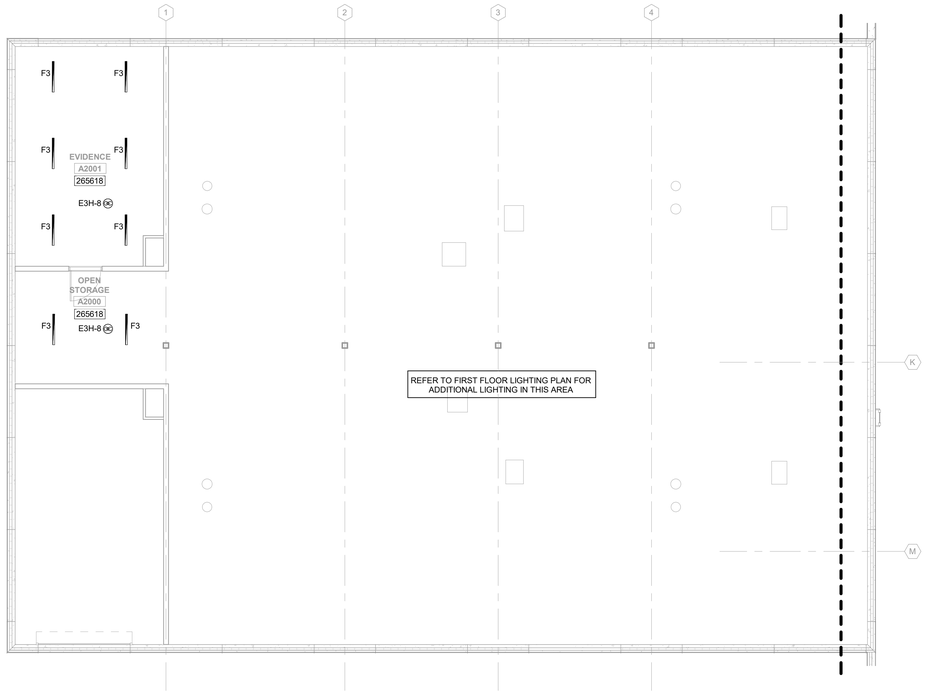
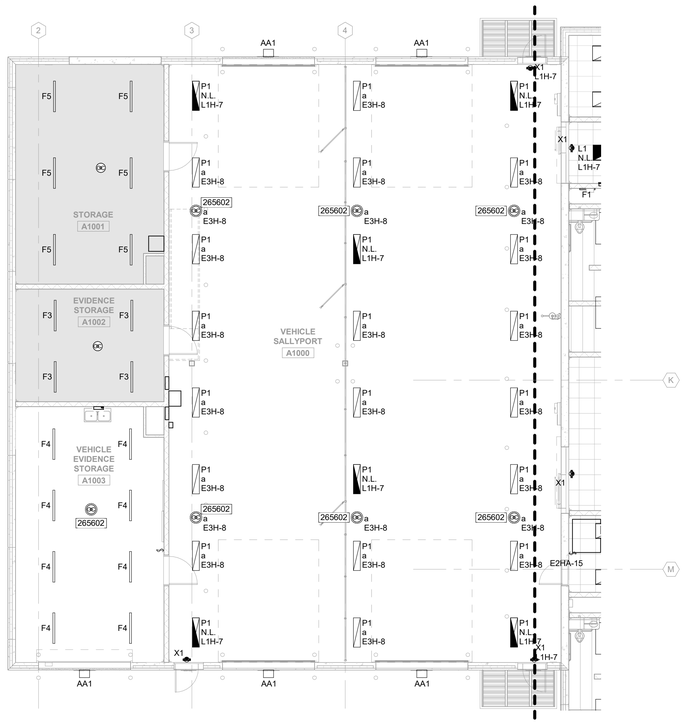


4 SECOND FLOOR LIGHTING - AREA 'A' ALTERNATE
E-301-A SCALE: 1/8" = 1'-0"
NORTH



2 MEZZANINE LIGHTING PLAN - AREA 'A'
E-301-A SCALE: 1/8" = 1'-0"
NORTH



3 FIRST FLOOR LIGHTING - AREA 'A' ALTERNATE
E-301-A SCALE: 1/8" = 1'-0"
NORTH

1 FIRST FLOOR LIGHTING - AREA 'A'
E-301-A SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-606. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.

B. FOR OCCUPANCY SENSOR WIRING DETAIL, SEE DETAIL #6 ON DRAWING E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR FOR EXTERIOR LIGHTING. CONCEAL BY ROUTING ON INTERIOR AND PENETRATE THROUGH WALL AT EACH EXTERIOR FIXTURE LOCATION.

D. FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHT OF ALL FIXTURES TO AVOID MECHANICAL DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DETAIL #1 ON DRAWING E-802.

F. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

G. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED IN CENTER OF CEILING TILE U.O.N. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN.

H. OCCUPANCY SENSORS ARE SHOWN FOR PURPOSES OF IDENTIFYING ROOMS/AREAS WHERE REQUIRED. COORDINATE WITH MANUFACTURER ON QUANTITY AND LOCATIONS REQUIRED FOR COMPLETE COVERAGE.

I. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS. POWER PACKS ARE NOT SHOWN. FIELD COORDINATE LOCATIONS AND RECORD ON ELECTRICAL RECORD DRAWINGS.

J. CROSS HATCHED/SHADED FIXTURES = FIXTURES POWERED VIA EMERGENCY BACKUP GENERATOR FOR EMERGENCY EGRESS.

K. EM = EMERGENCY EGRESS FIXTURE. N.L. = NIGHT LIGHT

L. WHERE SWITCH CIRCUIT IS NOT INDICATED, ALL FIXTURES IN ROOM OR AREA SHALL BE ON SAME SWITCH CIRCUIT CONTROLLED BY LIGHTING CONTROL DEVICE INDICATED FOR THAT SPACE.

M. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE

N. FOR ALL EXIT SIGNS, PROVIDE POWER FROM EMERGENCY LIGHTING CIRCUIT (I.E. CIRCUIT FROM PANEL 'L1H', 'L2H' OR 'DP-L') SERVING AREA.

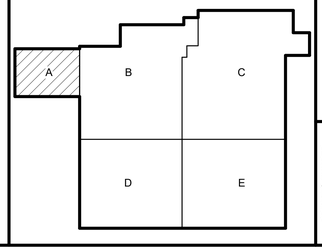
LIGHTING KEYNOTES 2656##

265602 PIR HIGH BAY OCCUPANCY SENSOR. PROVIDE POWER PACK(S) AS RECOMMENDED. DEVICE TO BE FIXTURE MOUNTED OR PENDANT MOUNTED AT SAME HEIGHT AS TYPE 'J1' FIXTURES.

265618 ALIGN FIXTURES IN ROOM WITH BOTTOM OF CIELING JOIST.

265624 INSTALL CORD REEL AT +12' -0" AFF. SUPPLY WITH ROOM LIGHTING CIRCUIT.

KEY PLAN



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MARVIN K. HITCHCOCK
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STATE OF
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PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: MHK/RDW CHK'D: MLH
DESIGNED: MHK/RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR AND MEZZANINE LIGHTING PLANS - AREA A

DRAWING NUMBER E-301-A

ELECTRICAL

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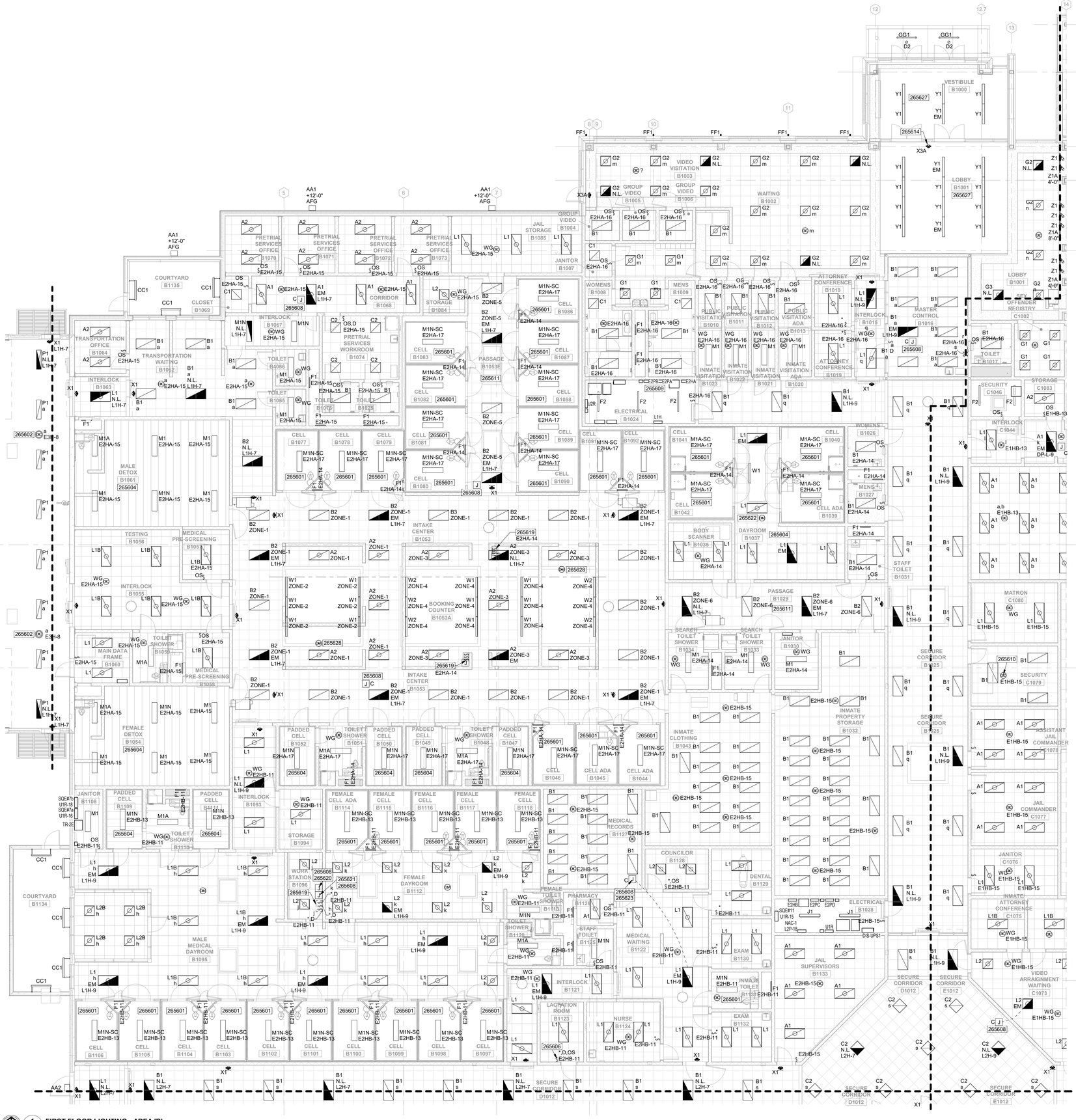

1 FIRST FLOOR LIGHTING - AREA 'B'
E-301-B SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-606. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.

B. FOR OCCUPANCY SENSOR WIRING DETAIL, SEE DETAIL #6 ON DRAWING E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR FOR EXTERIOR LIGHTING. CONCEAL BY ROUTING ON INTERIOR AND PENETRATE THROUGH WALL AT EACH EXTERIOR FIXTURE LOCATION.

D. FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHT OF ALL FIXTURES TO AVOID MECHANICAL DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DETAIL #1 ON DRAWING E-802.

F. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

G. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED IN CENTER OF CEILING TILE U.O.N. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN.

H. OCCUPANCY SENSORS ARE SHOWN FOR PURPOSES OF IDENTIFYING ROOMS/AREAS WHERE REQUIRED. COORDINATE WITH MANUFACTURER ON QUANTITY AND LOCATIONS REQUIRED FOR COMPLETE COVERAGE.

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K. EM = EMERGENCY EGRESS FIXTURE. N.L. = NIGHT LIGHT

L. WHERE SWITCH CIRCUIT IS NOT INDICATED, ALL FIXTURES IN ROOM OR AREA SHALL BE ON SAME SWITCH CIRCUIT CONTROLLED BY LIGHTING CONTROL DEVICE INDICATED FOR THAT SPACE.

M. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE

N. FOR ALL EXIT SIGNS, PROVIDE POWER FROM EMERGENCY LIGHTING CIRCUIT (I.E. CIRCUIT FROM PANEL 'L1H', 'L2H' OR 'DP-L') SERVING AREA.

LIGHTING KEYNOTES 2656##

265601 (TYPICAL) ALL CELLS, TOILETS & SHOWERS WILL HAVE LIGHTING FIXTURE(S) SUPPLIED BY MANUFACTURER AND BE CONNECTED BY DIV. 26. FIXTURE SHALL BE 277V AND BE CONTROLLED THROUGH THE UTILITY CONTROL PANELS.

265602 PIR HIGH BAY OCCUPANCY SENSOR. PROVIDE POWER PACK(S) AS RECOMMENDED. DEVICE TO BE FIXTURE MOUNTED OR PENDANT MOUNTED AT SAME HEIGHT AS TYPE 'J1' FIXTURES.

265604 LIGHTING IN ROOM/AREA TO BE CONTROLLED BY UTILITY CONTROL PANEL. REFER TO LIGHTING CONTROLS NOTE AND SPECIFICATIONS FOR MORE INFORMATION.

265606 (TYPICAL) PROVIDE WALLBOX DIMMER(S) FOR 277V LED DRIVERS, SLIDER WITH POSITIVE OFF. DIMMER SHALL BE PROVIDED PER LIGHT FIXTURE MANUFACTURERS RECOMMENDATION FOR PROPER DIMMING OF LED FIXTURE(S).

265608 FURNISH AND INSTALL (1) EMERGENCY POWER CONTROL (ECP) MODULE LIKE LVS, INC #EPC-1 OR APPROVED EQUAL IN ROOM/AREA FOR CONTROL OF EMERGENCY LIGHT(S). NON-EMERGENCY CIRCUIT SHALL BE SAME CIRCUIT AS REST OF ROOM LIGHTING. REFERENCE DETAIL #2 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS.

265609 MOUNT FIXTURES IN ROOM/AREA WITH BOTTOM AT +10'-0" AFF. CONTROL AND CIRCUIT AS SHOWN.

265610 (TYPICAL) OCCUPANCY SENSOR. PROVIDE POWER PACK(S) AS RECOMMENDED. DEVICE TO BE FIXTURE MOUNTED OR PENDANT MOUNTED AT SAME HEIGHT AS ROOM/AREA FIXTURES.

265611 FIXTURES IN ROOM/AREA TO BE CONTROLLED BY LIGHTING CONTROL SWITCH (DIMMER) IN BOOKING COUNTER #B1053A.

265614 FIXTURE TO BE STEM/PENDANT MOUNTED WITH BOTTOM AT +8'-0" AFF.

265619 ROOM LIGHTING CONTROLLER AND INDICATOR LIGHTS (ONE PER ZONE). REFER TO ASSOCIATED ROOM DETAIL ON SHEET E-805 FOR LIGHTING CONTROL SCHEMATIC.

265620 FLUSH MOUNT EPC IN WALL FOR CONTROL OF MALE MEDICAL DAYROOM B1095 EMERGENCY FIXTURES.

265621 FLUSH MOUNT EPC IN WALL FOR CONTROL OF FEMALE DAYROOM B1112 EMERGENCY FIXTURES.

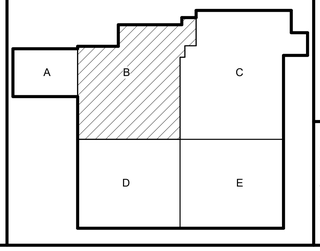
265622 PROVIDE DAYLIGHT SENSOR (QTY AND LOCATION PER MANUFACTURER) FOR AUTOMATIC CONTROL OF ROOM LIGHTING LEVELS. REFER TO ASSOCIATED ROOM DETAIL ON E-805 FOR LIGHTING CONTROL SCHEMATIC.

265623 INSTALL EPC ABOVE CEILING FOR CONTROL OF MEDICAL WAITING B1122 AND INTERLOCK B1121 EMERGENCY FIXTURES.

265627 PROVIDE DAYLIGHT SENSOR (QTY AND LOCATION PER MANUFACTURER) FOR AUTOMATIC CONTROL OF ROOM LIGHTING LEVELS. REFER TO ASSOCIATED ROOM DETAIL ON E-806 FOR LIGHTING CONTROL SCHEMATIC.

265628 PROVIDE DAYLIGHT SENSOR (QTY AND LOCATION PER MANUFACTURER) FOR AUTOMATIC CONTROL OF ROOM LIGHTING LEVELS. REFER TO ASSOCIATED ROOM DETAIL ON E-805 FOR LIGHTING CONTROL SCHEMATIC. MOUNT ON WALL OF SKYLIGHT AT +11'-0" AFF.

KEY PLAN



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DLZ INDIANA, LLC

MARK J. HITCHCOCK
REGISTERED
PE60019675
STATE OF INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: MHK/RDW
DESIGNED: MHK/RDW
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR LIGHTING PLAN - AREA B

DRAWING NUMBER E-301-B

ELECTRICAL

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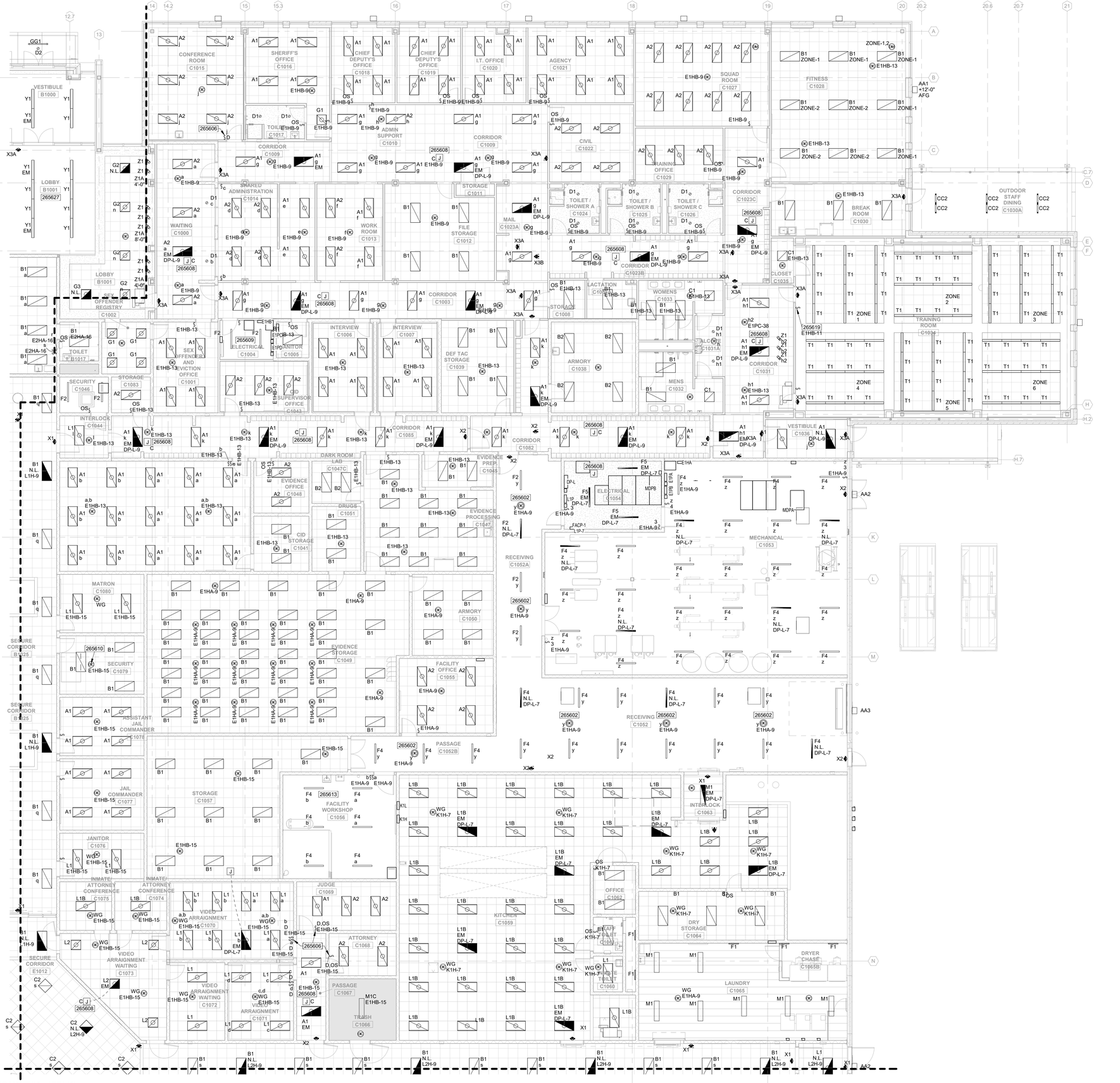

1 FIRST FLOOR LIGHTING - AREA 'C'
E-301-C SCALE: 1/8" = 1'-0"

NORTH

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GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-606. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.

B. FOR OCCUPANCY SENSOR WIRING DETAIL, SEE DETAIL #6 ON DRAWING E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR FOR EXTERIOR LIGHTING. CONCEAL BY ROUTING ON INTERIOR AND PENETRATE THROUGH WALL AT EACH EXTERIOR FIXTURE LOCATION.

D. FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHT OF ALL FIXTURES TO AVOID MECHANICAL DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DETAIL #1 ON DRAWING E-802.

F. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

G. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED IN CENTER OF CEILING TILE U.O.N. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN.

H. OCCUPANCY SENSORS ARE SHOWN FOR PURPOSES OF IDENTIFYING ROOMS/AREAS WHERE REQUIRED. COORDINATE WITH MANUFACTURER ON QUANTITY AND LOCATIONS REQUIRED FOR COMPLETE COVERAGE.

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K. EM = EMERGENCY EGRESS FIXTURE. N.L. = NIGHT LIGHT

L. WHERE SWITCH CIRCUIT IS NOT INDICATED, ALL FIXTURES IN ROOM OR AREA SHALL BE ON SAME SWITCH CIRCUIT CONTROLLED BY LIGHTING CONTROL DEVICE INDICATED FOR THAT SPACE.

M. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE

N. FOR ALL EXIT SIGNS, PROVIDE POWER FROM EMERGENCY LIGHTING CIRCUIT (I.E. CIRCUIT FROM PANEL 'L1H', 'L2H' OR 'DP-L') SERVING AREA.

LIGHTING KEYNOTES 2656##

265602 PIR HIGH BAY OCCUPANCY SENSOR. PROVIDE POWER PACK(S) AS RECOMMENDED. DEVICE TO BE FIXTURE MOUNTED OR PENDANT MOUNTED AT SAME HEIGHT AS TYPE 'J1' FIXTURES.

265606 (TYPICAL) PROVIDE WALLBOX DIMMER(S) FOR 277V LED DRIVERS, SLIDER WITH POSITIVE OFF. DIMMER SHALL BE PROVIDED PER LIGHT FIXTURE MANUFACTURERS RECOMMENDATION FOR PROPER DIMMING OF LED FIXTURE(S).

265608 FURNISH AND INSTALL (1) EMERGENCY POWER CONTROL (ECP) MODULE LIKE LVS, INC #ECP-1 OR APPROVED EQUAL IN ROOM/AREA FOR CONTROL OF EMERGENCY LIGHT(S). NON-EMERGENCY CIRCUIT SHALL BE SAME CIRCUIT AS REST OF ROOM LIGHTING. REFERENCE DETAIL #2 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS.

265609 MOUNT FIXTURES IN ROOM/AREA WITH BOTTOM AT +10'-0" AFF. CONTROL AND CIRCUIT AS SHOWN.

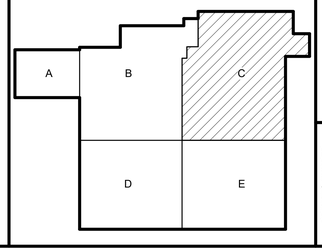
265610 (TYPICAL) OCCUPANCY SENSOR. PROVIDE POWER PACK(S) AS RECOMMENDED. DEVICE TO BE FIXTURE MOUNTED OR PENDANT MOUNTED AT SAME HEIGHT AS ROOM/AREA FIXTURES.

265613 MOUNT FIXTURES IN ROOM/AREA WITH BOTTOM AT +9'-0" AFF. CONTROL AND CIRCUIT AS SHOWN.

265619 ROOM LIGHTING CONTROLLER AND INDICATOR LIGHTS (ONE PER ZONE). REFER TO ASSOCIATED ROOM DETAIL ON SHEET E-805 FOR LIGHTING CONTROL SCHEMATIC.

265627 PROVIDE DAYLIGHT SENSOR (QTY AND LOCATION PER MANUFACTURER) FOR AUTOMATIC CONTROL OF ROOM LIGHTING LEVELS, REFER TO ASSOCIATED ROOM DETAIL ON E-806 FOR LIGHTING CONTROL SCHEMATIC.

KEY PLAN



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DLZ INDIANA, LLC

MARK R. HITCHCOCK
STATE OF INDIANA
PE60018675
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

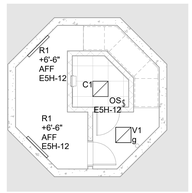
DRAWN: MHK/KEW/KKR
DESIGNED: MHK/KGW
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

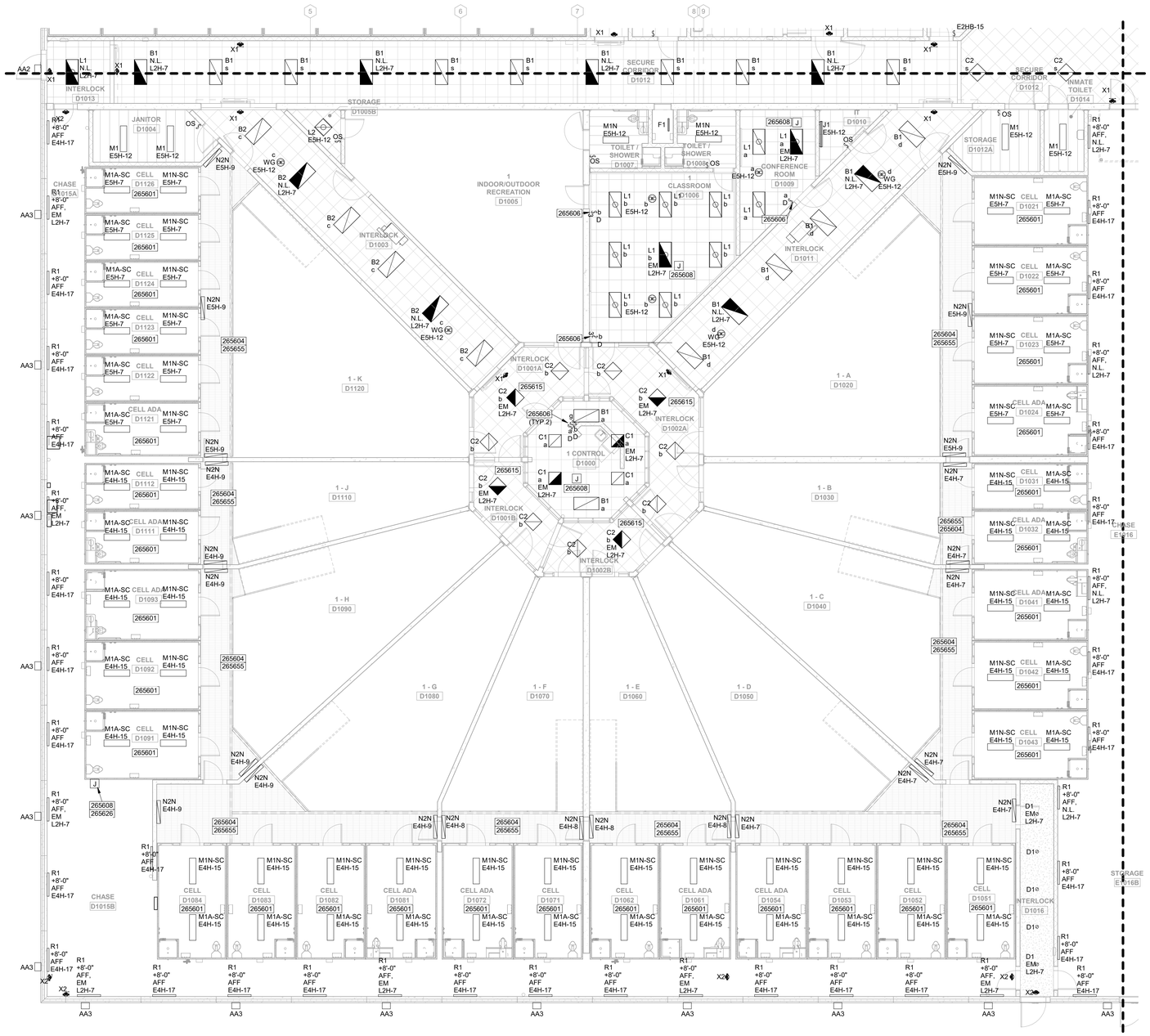
FIRST FLOOR LIGHTING PLAN - AREA C

DRAWING NUMBER E-301-C

ELECTRICAL



2 LOWER LEVEL LIGHTING - AREA 'D'
E-301-D SCALE: 1/8" = 1'-0"
NORTH



1 FIRST FLOOR LIGHTING - AREA 'D'
E-301-D SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-606. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.

B. FOR OCCUPANCY SENSOR WIRING DETAIL, SEE DETAIL #6 ON DRAWING E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR FOR EXTERIOR LIGHTING. CONCEAL BY ROUTING ON INTERIOR AND PENETRATE THROUGH WALL AT EACH EXTERIOR FIXTURE LOCATION.

D. FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHT OF ALL FIXTURES TO AVOID MECHANICAL DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DETAIL #1 ON DRAWING E-802.

F. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

G. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED IN CENTER OF CEILING TILE U.O.N. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN.

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L. WHERE SWITCH CIRCUIT IS NOT INDICATED, ALL FIXTURES IN ROOM OR AREA SHALL BE ON SAME SWITCH CIRCUIT CONTROLLED BY LIGHTING CONTROL DEVICE INDICATED FOR THAT SPACE.

M. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE

N. FOR ALL EXIT SIGNS, PROVIDE POWER FROM EMERGENCY LIGHTING CIRCUIT (I.E. CIRCUIT FROM PANEL 'L1H', 'L2H' OR 'DP-L') SERVING AREA.

LIGHTING KEYNOTES 2656##

265601 (TYPICAL) ALL CELLS, TOILETS & SHOWERS WILL HAVE LIGHTING FIXTURE(S) SUPPLIED BY MANUFACTURER AND BE CONNECTED BY DIV. 26. FIXTURE SHALL BE 277V AND BE CONTROLLED THROUGH THE UTILITY CONTROL PANELS.

265604 LIGHTING IN ROOM/AREA TO BE CONTROLLED BY UTILITY CONTROL PANEL. REFER TO LIGHTING CONTROLS NOTE AND SPECIFICATIONS FOR MORE INFORMATION.

265606 (TYPICAL) PROVIDE WALLBOX DIMMER(S) FOR 277V LED DRIVERS, SLIDER WITH POSITIVE OFF. DIMMER SHALL BE PROVIDED PER LIGHT FIXTURE MANUFACTURERS RECOMMENDATION FOR PROPER DIMMING OF LED FIXTURE(S).

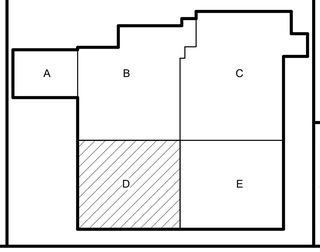
265608 FURNISH AND INSTALL (1) EMERGENCY POWER CONTROL (ECP) MODULE LIKE LVS, INC #EPC-1 OR APPROVED EQUAL IN ROOM/AREA FOR CONTROL OF EMERGENCY LIGHT(S). NON-EMERGENCY CIRCUIT SHALL BE SAME CIRCUIT AS REST OF ROOM LIGHTING. REFERENCE DETAIL #2 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS.

265615 FIXTURE TO BE CONTROLLED BY EMERGENCY POWER CONTROL MODULE LOCATED IN CONTROL #D1000.

265626 FIELD VERIFY QUANTITY AND LOCATIONS OF EPC MODULES AS REQUIRED FOR AREA.

265655 FOR WALL MOUNT FIXTURES UNDER GRATED CATWALK, REFER TO DETAIL 4 ON E-807 FOR MOUNTING DETAILS.

KEY PLAN



DLZ
ARCHITECTURE • ENGINEERING • PLANNING
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DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: MHK/RDW CHKD: MLH
DESIGNED: MHK/RDW
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR AND LOWER LEVEL LIGHTING PLANS - AREA D

DRAWING NUMBER E-301-D
ELECTRICAL

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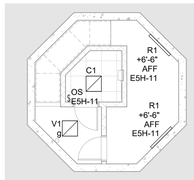
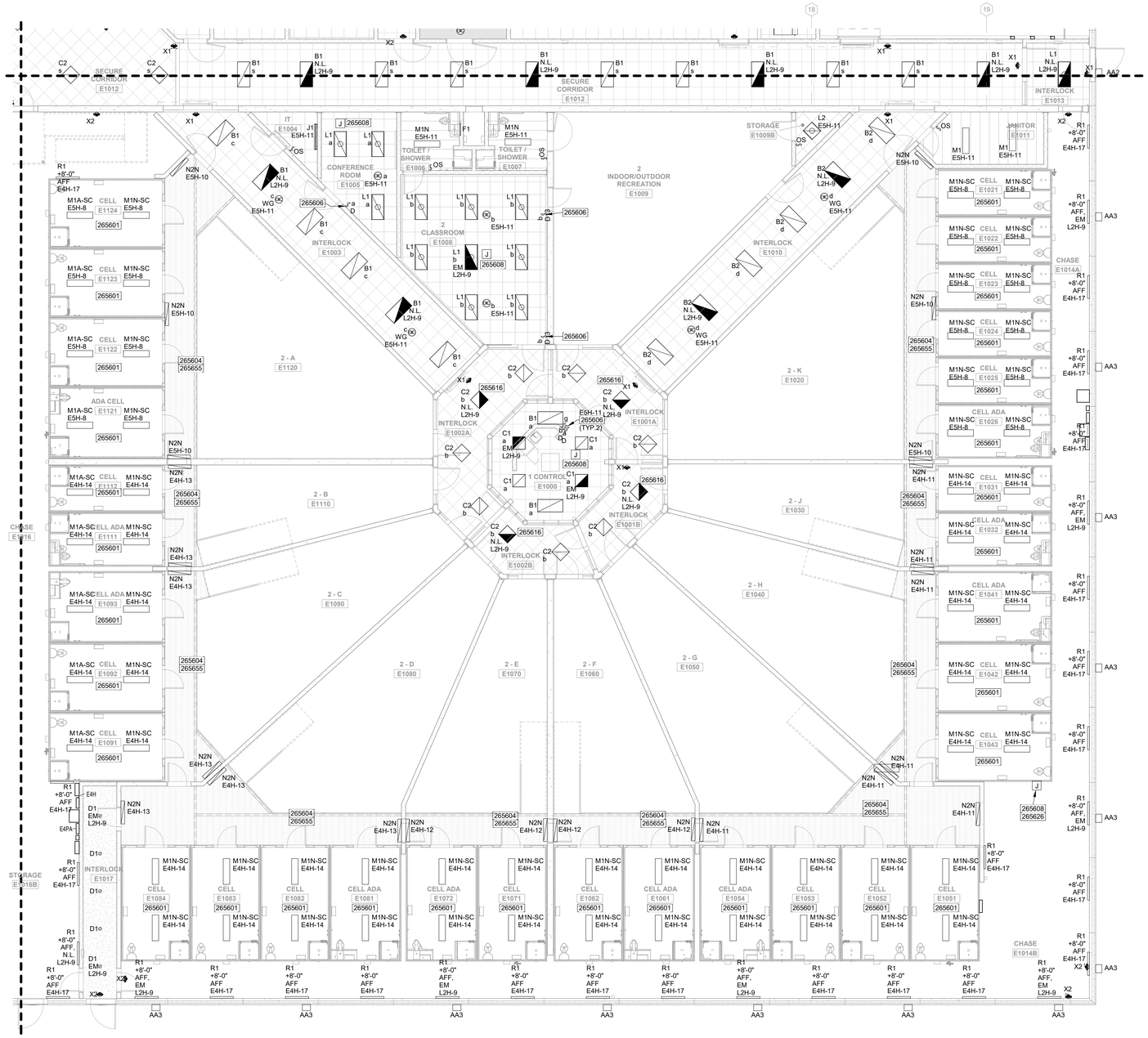
9/4/2019 3:52:25 PM



2 LOWER LEVEL LIGHTING - AREA 'E'
E-301-E SCALE: 1/8" = 1'-0"
NORTH



1 FIRST FLOOR LIGHTING - AREA 'E'
E-301-E SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-606. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.

B. FOR OCCUPANCY SENSOR WIRING DETAIL, SEE DETAIL #6 ON DRAWING E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR FOR EXTERIOR LIGHTING. CONCEAL BY ROUTING ON INTERIOR AND PENETRATE THROUGH WALL AT EACH EXTERIOR FIXTURE LOCATION.

D. FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHT OF ALL FIXTURES TO AVOID MECHANICAL DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DETAIL #1 ON DRAWING E-802.

F. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

G. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED IN CENTER OF CEILING TILE U.O.N. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN.

H. OCCUPANCY SENSORS ARE SHOWN FOR PURPOSES OF IDENTIFYING ROOMS/AREAS WHERE REQUIRED. COORDINATE WITH MANUFACTURER ON QUANTITY AND LOCATIONS REQUIRED FOR COMPLETE COVERAGE.

I. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS. POWER PACKS ARE NOT SHOWN. FIELD COORDINATE LOCATIONS AND RECORD ON ELECTRICAL RECORD DRAWINGS.

J. CROSS HATCHED/SHADED FIXTURES = FIXTURES POWERED VIA EMERGENCY BACKUP GENERATOR FOR EMERGENCY EGRESS.

K. EM = EMERGENCY EGRESS FIXTURE. N.L. = NIGHT LIGHT

L. WHERE SWITCH CIRCUIT IS NOT INDICATED, ALL FIXTURES IN ROOM OR AREA SHALL BE ON SAME SWITCH CIRCUIT CONTROLLED BY LIGHTING CONTROL DEVICE INDICATED FOR THAT SPACE.

M. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE

N. FOR ALL EXIT SIGNS, PROVIDE POWER FROM EMERGENCY LIGHTING CIRCUIT (I.E. CIRCUIT FROM PANEL 'L1H', 'L2H' OR 'DP-L') SERVING AREA.

LIGHTING KEYNOTES

26566##

26560 1 (TYPICAL) ALL CELLS, TOILETS & SHOWERS WILL HAVE LIGHTING FIXTURE(S) SUPPLIED BY MANUFACTURER AND BE CONNECTED BY DIV. 26. FIXTURE SHALL BE 277V AND BE CONTROLLED THROUGH THE UTILITY CONTROL PANELS.

26560 4 LIGHTING IN ROOM/AREA TO BE CONTROLLED BY UTILITY CONTROL PANEL. REFER TO LIGHTING CONTROLS NOTE AND SPECIFICATIONS FOR MORE INFORMATION.

26560 6 (TYPICAL) PROVIDE WALLBOX DIMMER(S) FOR 277V LED DRIVERS, SLIDER WITH POSITIVE OFF. DIMMER SHALL BE PROVIDED PER LIGHT FIXTURE MANUFACTURERS RECOMMENDATION FOR PROPER DIMMING OF LED FIXTURE(S).

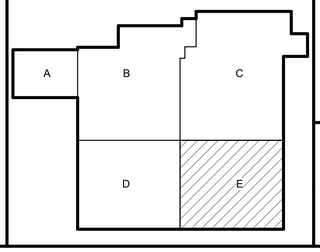
26560 8 FURNISH AND INSTALL (1) EMERGENCY POWER CONTROL (ECP) MODULE LIKE LVS, INC #EPC-1 OR APPROVED EQUAL IN ROOM/AREA FOR CONTROL OF EMERGENCY LIGHT(S). NON-EMERGENCY CIRCUIT SHALL BE SAME CIRCUIT AS REST OF ROOM LIGHTING. REFERENCE DETAIL #2 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS.

26561 6 FIXTURE TO BE CONTROLLED BY EMERGENCY POWER CONTROL MODULE LOCATED IN CONTROL #E1000.

26562 6 FIELD VERIFY QUANTITY AND LOCATIONS OF EPC MODULES AS REQUIRED FOR AREA.

26565 5 FOR WALL MOUNT FIXTURES UNDER GRATED CATWALK, REFER TO DETAIL 4 ON E-807 FOR MOUNTING DETAILS.

KEY PLAN



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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARK R. HITCHCOCK
REGISTERED
PE60019675
STATE OF INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: MHK-RD/ZHKD; MLH
DESIGNED: MHK-RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR AND LOWER LEVEL LIGHTING PLANS - AREA E

DRAWING NUMBER E-301-E
ELECTRICAL

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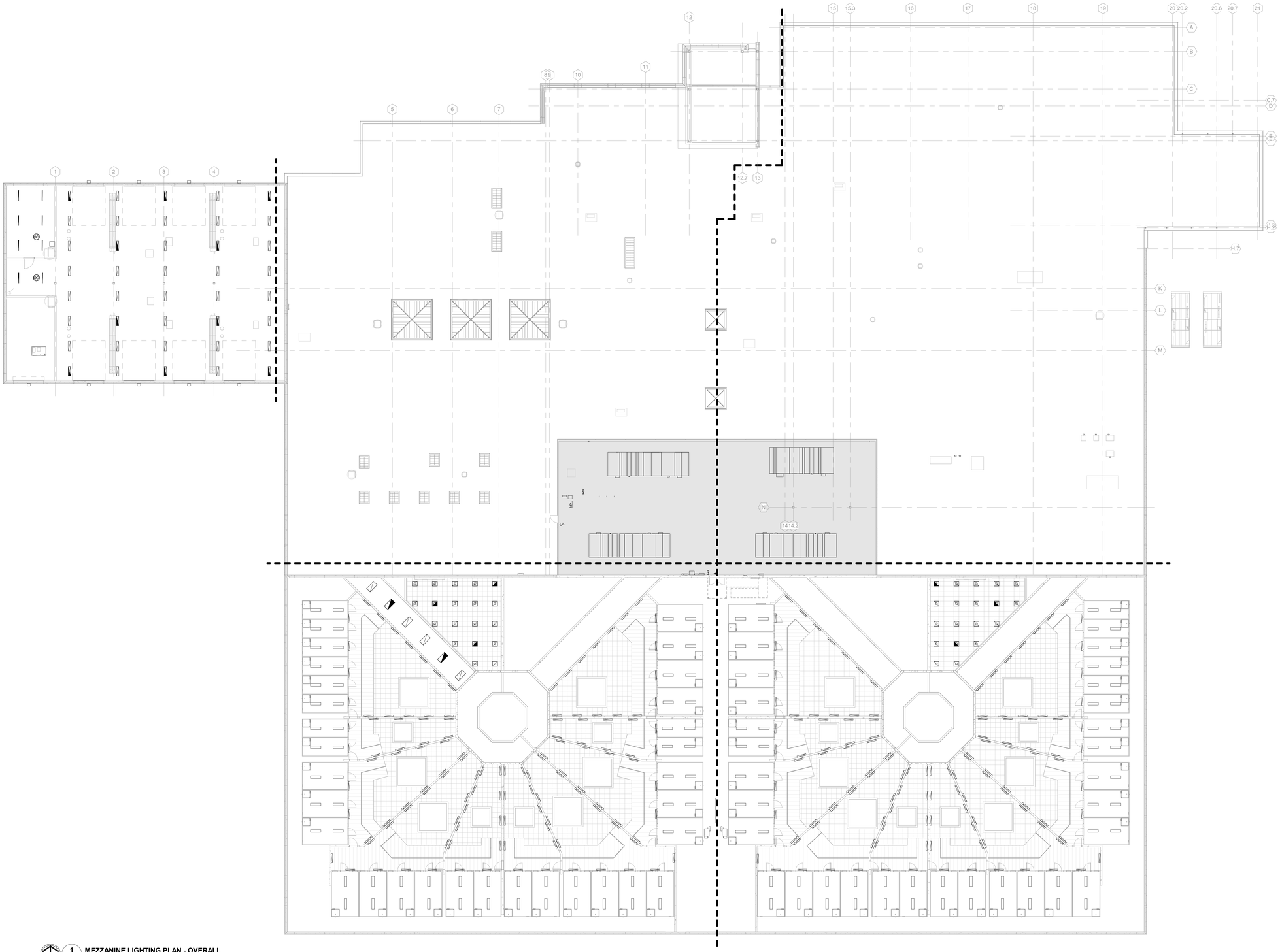


1 MEZZANINE LIGHTING PLAN - OVERALL
E-302 SCALE: 1/16" = 1'-0"

NORTH

THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY - SEE SHEETS E-302-D AND E-302-E FOR DETAILED REQUIREMENTS AND KEYED NOTES FOR POWER.

GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-606. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.

B. FOR OCCUPANCY SENSOR WIRING DETAIL, SEE DETAIL #6 ON DRAWING E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR FOR EXTERIOR LIGHTING. CONCEAL BY ROUTING ON INTERIOR AND PENETRATE THROUGH WALL AT EACH EXTERIOR FIXTURE LOCATION.

D. FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHT OF ALL FIXTURES TO AVOID MECHANICAL DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DETAIL #1 ON DRAWING E-802.

F. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

G. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED IN CENTER OF CEILING TILE U.O.N. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN.

H. OCCUPANCY SENSORS ARE SHOWN FOR PURPOSES OF IDENTIFYING ROOMS/AREAS WHERE REQUIRED. COORDINATE WITH MANUFACTURER ON QUANTITY AND LOCATIONS REQUIRED FOR COMPLETE COVERAGE.

I. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS. POWER PACKS ARE NOT SHOWN. FIELD COORDINATE LOCATIONS AND RECORD ON ELECTRICAL RECORD DRAWINGS.

J. CROSS HATCHED/SHADED FIXTURES = FIXTURES POWERED VIA EMERGENCY BACKUP GENERATOR FOR EMERGENCY EGRESS.

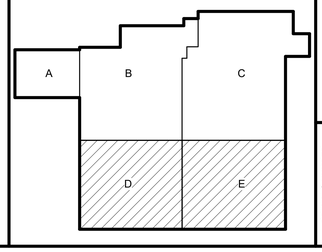
K. EM = EMERGENCY EGRESS FIXTURE. N.L. = NIGHT LIGHT

L. WHERE SWITCH CIRCUIT IS NOT INDICATED, ALL FIXTURES IN ROOM OR AREA SHALL BE ON SAME SWITCH CIRCUIT CONTROLLED BY LIGHTING CONTROL DEVICE INDICATED FOR THAT SPACE.

M. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE

N. AREAS/ROOMS WITH COLORED CEILING GRIDS SHOWN ARE FOR PURPOSES OF IDENTIFING "SECURITY" TYPE CEILINGS; NO JUNCTION BOXES SHALL BE INSTALLED ABOVE "SECURITY" TYPE CEILINGS UNLESS ATTACHED TO DEVICES MOUNTED IN/ON GRID.

KEY PLAN



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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PE60016675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: MHK,RD/CHKD: MLH
DESIGNED: MHK,RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MEZZANINE LIGHTING PLAN - OVERALL

DRAWING NUMBER E-302
ELECTRICAL

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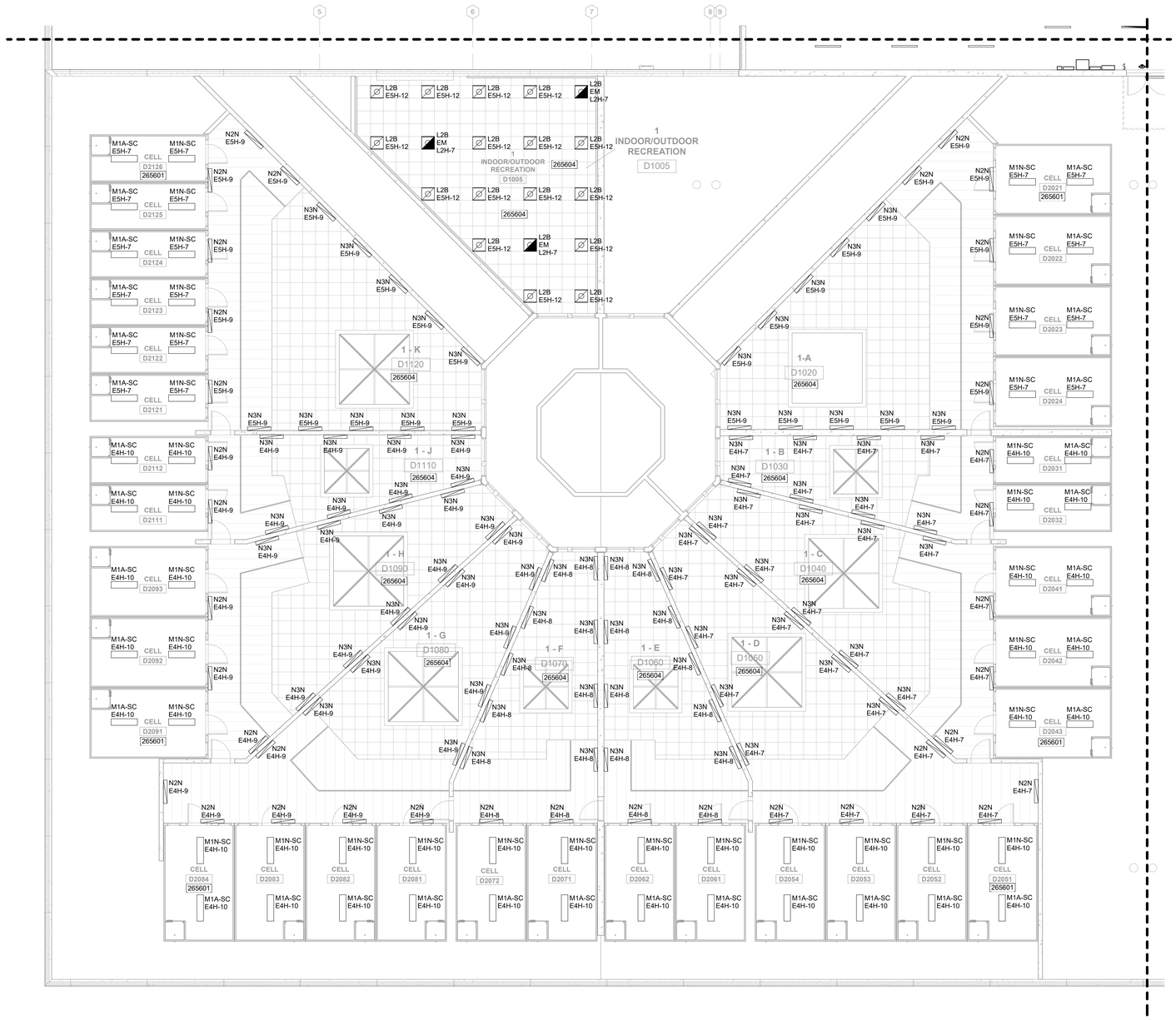

1 MEZZANINE LIGHTING PLAN - AREA 'D'
E-302-D SCALE: 1/8" = 1'-0"

NORTH

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GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-606. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.

B. FOR OCCUPANCY SENSOR WIRING DETAIL, SEE DETAIL #6 ON DRAWING E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR FOR EXTERIOR LIGHTING. CONCEAL BY ROUTING ON INTERIOR AND PENETRATE THROUGH WALL AT EACH EXTERIOR FIXTURE LOCATION.

D. FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHT OF ALL FIXTURES TO AVOID MECHANICAL DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DETAIL #1 ON DRAWING E-802.

F. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

G. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED IN CENTER OF CEILING TILE U.O.N. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN.

H. OCCUPANCY SENSORS ARE SHOWN FOR PURPOSES OF IDENTIFYING ROOMS/AREAS WHERE REQUIRED. COORDINATE WITH MANUFACTURER ON QUANTITY AND LOCATIONS REQUIRED FOR COMPLETE COVERAGE.

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L. WHERE SWITCH CIRCUIT IS NOT INDICATED, ALL FIXTURES IN ROOM OR AREA SHALL BE ON SAME SWITCH CIRCUIT CONTROLLED BY LIGHTING CONTROL DEVICE INDICATED FOR THAT SPACE.

M. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE

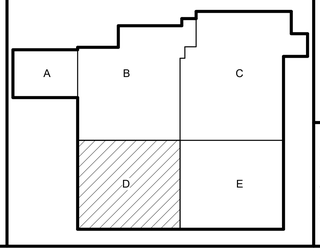
N. FOR ALL EXIT SIGNS, PROVIDE POWER FROM EMERGENCY LIGHTING CIRCUIT (I.E. CIRCUIT FROM PANEL 'L1H', 'L2H' OR 'DP-L') SERVING AREA.

LIGHTING KEYNOTES 2656##

265601 (TYPICAL) ALL CELLS, TOILETS & SHOWERS WILL HAVE LIGHTING FIXTURE(S) SUPPLIED BY MANUFACTURER AND BE CONNECTED BY DIV. 26. FIXTURE SHALL BE 277V AND BE CONTROLLED THROUGH THE UTILITY CONTROL PANELS.

265604 LIGHTING IN ROOM/AREA TO BE CONTROLLED BY UTILITY CONTROL PANEL. REFER TO LIGHTING CONTROLS NOTE AND SPECIFICATIONS FOR MORE INFORMATION.

KEY PLAN



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DLZ INDIANA, LLC

MARK L. HITCHCOCK
REGISTERED
PE60018675
STATE OF
INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

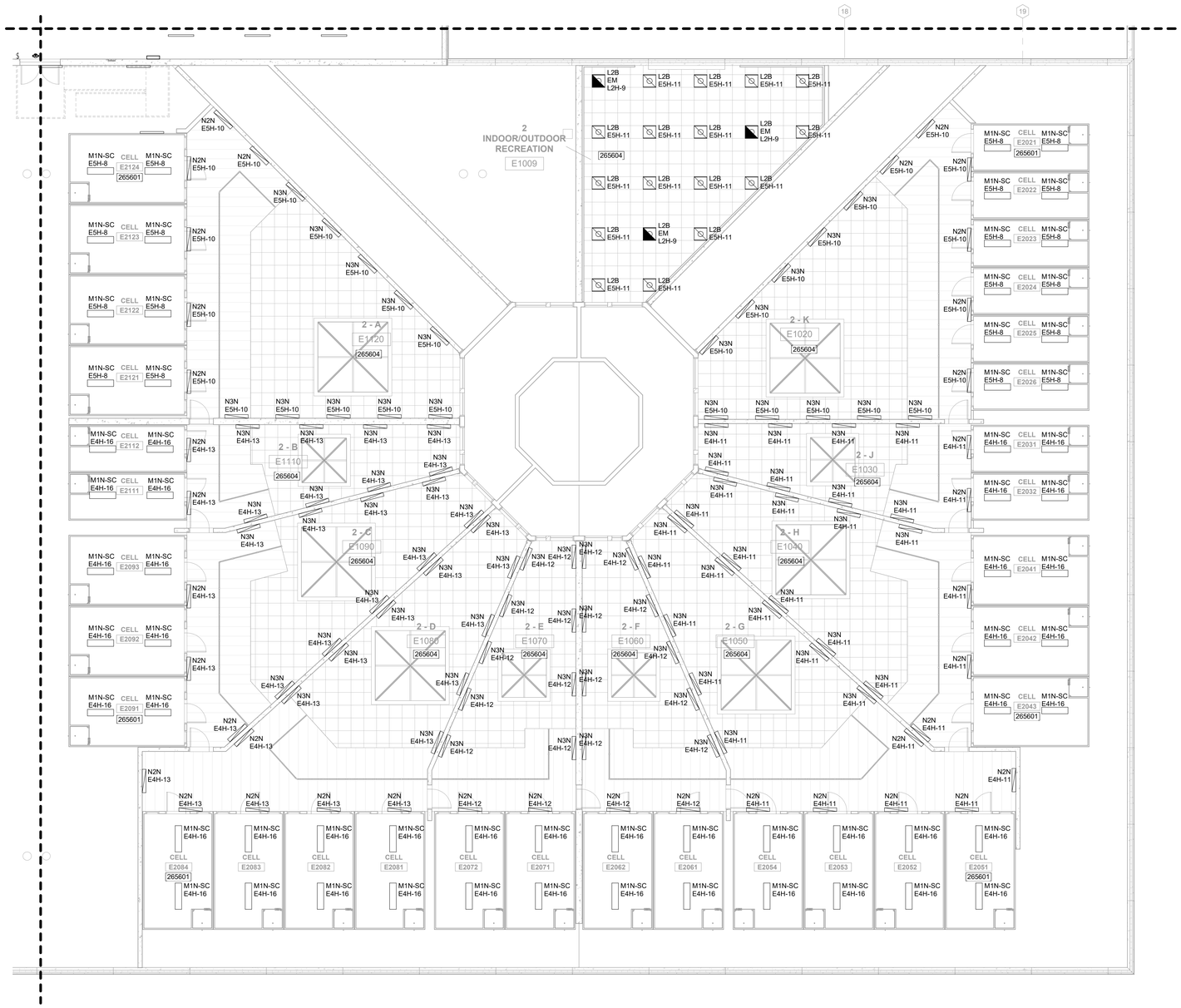
DRAWN: MHK/RD/**GHK/D**: MLH
DESIGNED: MHK/RGW
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE LIGHTING PLAN - AREA D

DRAWING NUMBER E-302-D

ELECTRICAL



1 E-302-E **MEZZANINE LIGHTING PLAN - AREA 'E'**
SCALE: 1/8" = 1'-0"
NORTH

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GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E-606. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.

B. FOR OCCUPANCY SENSOR WIRING DETAIL, SEE DETAIL #6 ON DRAWING E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR FOR EXTERIOR LIGHTING. CONCEAL BY ROUTING ON INTERIOR AND PENETRATE THROUGH WALL AT EACH EXTERIOR FIXTURE LOCATION.

D. FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHT OF ALL FIXTURES TO AVOID MECHANICAL DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DETAIL #1 ON DRAWING E-802.

F. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

G. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED IN CENTER OF CEILING TILE U.O.N. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN.

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L. WHERE SWITCH CIRCUIT IS NOT INDICATED, ALL FIXTURES IN ROOM OR AREA SHALL BE ON SAME SWITCH CIRCUIT CONTROLLED BY LIGHTING CONTROL DEVICE INDICATED FOR THAT SPACE.

M. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE

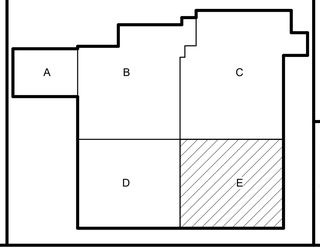
N. FOR ALL EXIT SIGNS, PROVIDE POWER FROM EMERGENCY LIGHTING CIRCUIT (I.E. CIRCUIT FROM PANEL 'L1H', 'L2H' OR 'DP-L') SERVING AREA.

LIGHTING KEYNOTES 2656##

265601 (TYPICAL) ALL CELLS, TOILETS & SHOWERS WILL HAVE LIGHTING FIXTURE(S) SUPPLIED BY MANUFACTURER AND BE CONNECTED BY DIV. 26. FIXTURE SHALL BE 277V AND BE CONTROLLED THROUGH THE UTILITY CONTROL PANELS.

265604 LIGHTING IN ROOM/AREA TO BE CONTROLLED BY UTILITY CONTROL PANEL. REFER TO LIGHTING CONTROLS NOTE AND SPECIFICATIONS FOR MORE INFORMATION.

KEY PLAN



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DLZ INDIANA, LLC

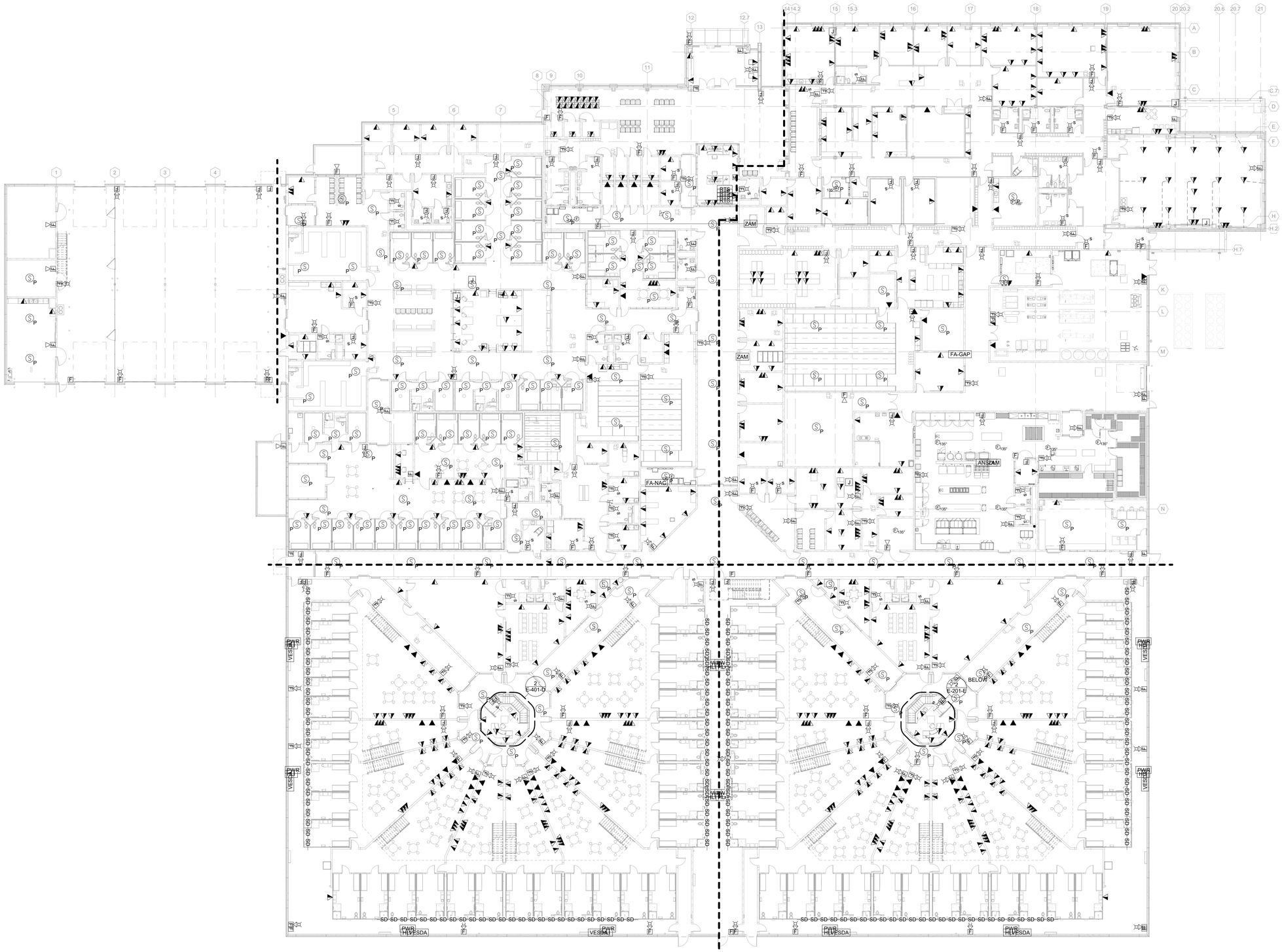
MARVIN K. HITCHCOCK REGISTERED PROFESSIONAL ENGINEER PE60018675 STATE OF INDIANA

NO.	REVISION	DATE

DRAWN: MHK/RD/KD/HKD: MLH
DESIGNED: MHK RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MEZZANINE LIGHTING PLAN - AREA E

DRAWING NUMBER E-302-E
ELECTRICAL



1 E-401 **FIRST FLOOR SYSTEMS - OVERALL**
SCALE: 1/16" = 1'-0"

NORTH

THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY - SEE SHEETS E-401-A, E-401-B, E-401-C, E-401-D AND E-401-E FOR DETAILED REQUIREMENTS AND KEYED NOTES FOR POWER.

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ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN L. HITCHCOCK (STATE REGISTERED PROFESSIONAL ENGINEER) PE60019675 STATE OF INDIANA

NO.	REVISION	DATE

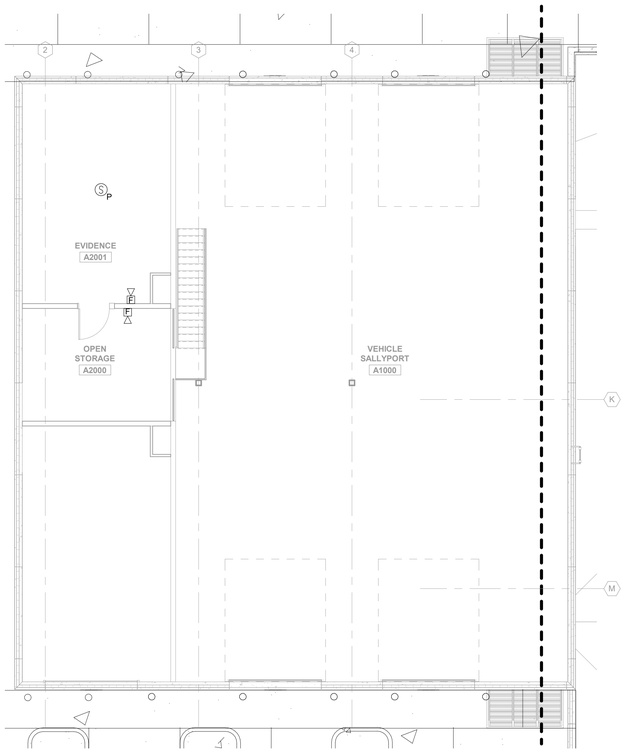
DRAWN: RDW CHK'D: MLH
DESIGNED: RDW, TKF
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

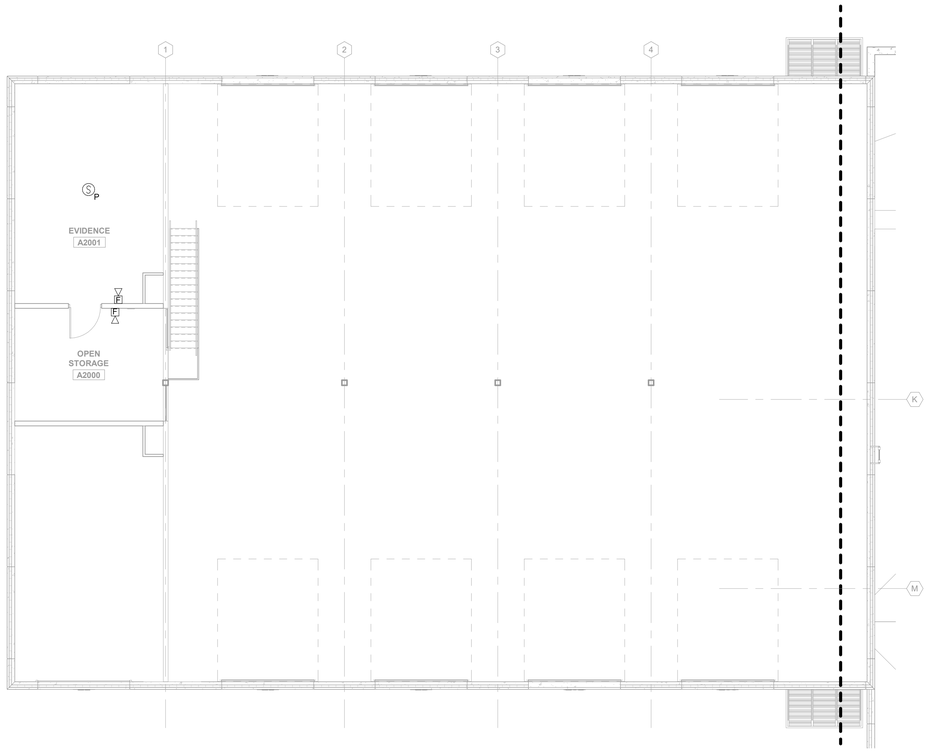
FIRST FLOOR SYSTEMS PLAN - OVERALL

DRAWING NUMBER
E-401

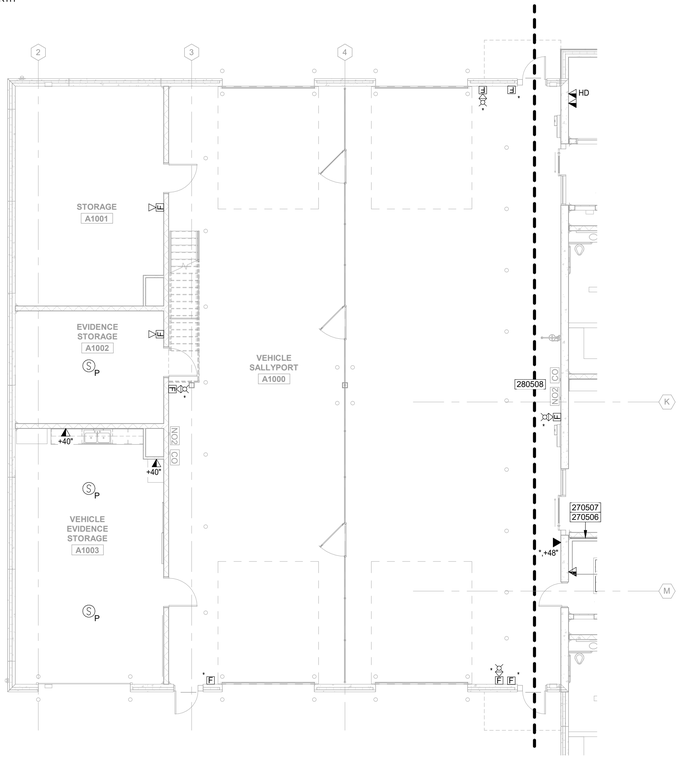
ELECTRICAL



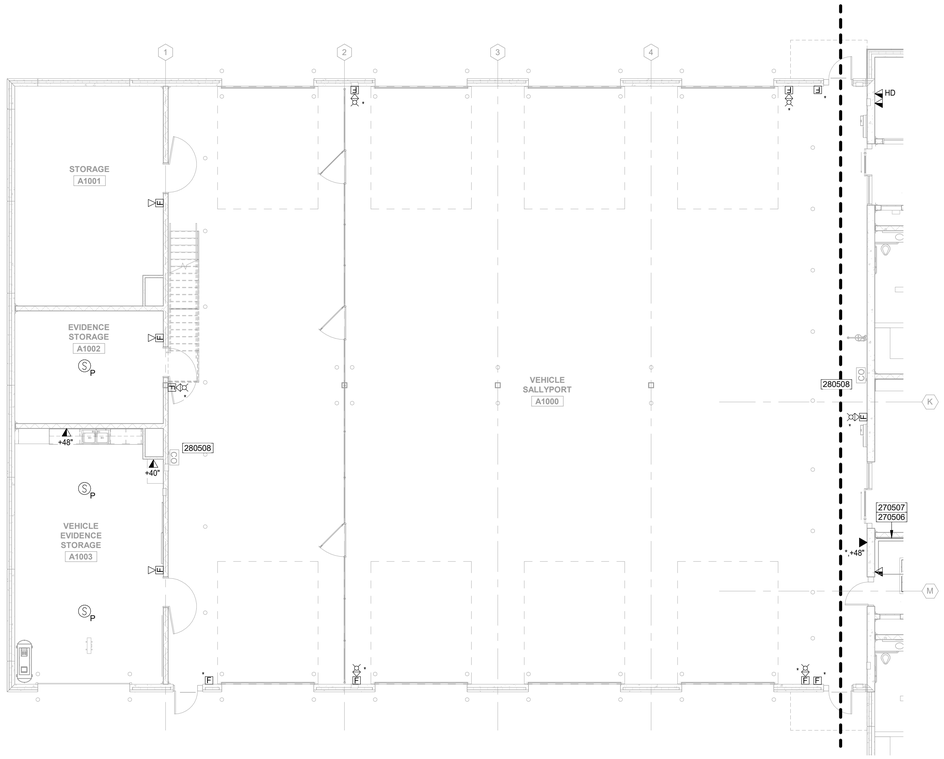
4 E-401-A SECOND FLOOR SYSTEMS - AREA 'A' ALTERNATE
SCALE: 1/8" = 1'-0"
NORTH



2 E-401-A MEZZANINE SYSTEMS PLAN - AREA 'A'
SCALE: 1/8" = 1'-0"
NORTH



3 E-401-A FIRST FLOOR SYSTEMS - AREA 'A' ALTERNATE
SCALE: 1/8" = 1'-0"
NORTH



1 E-401-A FIRST FLOOR SYSTEMS - AREA 'A'
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO DRAWING E-803, DETAIL #10 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.

B. CONTRACTOR SHALL COORDINATE ALL DEVICE HEIGHTS AND EXACT LOCATIONS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATION DRAWINGS.

C. ALL FIRE ALARM CONDUITS SHALL BE FACTORY PAINTED "RED". ALL PULL/JUNCTION BOX COVERS SHALL BE FACTORY PAINTED RED.

D. FOR MUTOA BACKBOX AND IN-WALL SLEEVE DETAIL, SEE DETAIL #10 ON DRAWING E-801.

E. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

F. REFER TO SECURITY DRAWINGS, #SE SERIES, AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL SECURITY SYSTEM REQUIREMENTS. PROVIDE BOXES AND RACEWAYS CABLING, AND ASSOCIATED ITEMS AS NECESSARY FOR A COMPLETE AND FUNCTIONAL SECURITY SYSTEM.

G. PROPOSED WAP LOCATIONS AND QUANTITY SHOWN ARE SCHEMATIC ONLY. WAP VENDOR SHALL PROVIDE EXACT LOCATIONS AND QUANTITY OF WIRELESS ACCESS POINTS.

1. FURNISH AND INSTALL SPECIFICATION GRADE, POWER OVER ETHERNET, WIRELESS ACCESS POINT (WAP) ROUTERS FOR COMPLETE COVERAGE OF BUILDING; QUANTITY AND LOCATION TO BE DETERMINED BY WAP VENDOR USING PREDICTIVE ANALYSIS SOFTWARE.
2. ROUTER MANUFACTURERS SHALL BE BY NETGEAR, RUCKUS OR CISCO. PROVIDE WITH NETWORK MANAGEMENT SOFTWARE. WAP VENDOR SHALL PROVIDE A PREDICTIVE ANALYSIS OF WIRELESS PERFORMANCE AND WIRELESS ROUTERS.
3. PROVIDE INDICATING PREDICTIVE TRAFFIC/USAGE AND COVERAGE PATTERNS AS PART OF SHOP DRAWING SUBMITTAL.
4. FURNISH AND INSTALL (2) CAT 6 DATA CABLE WITH 10' OF SLACK FOR FINAL PLACEMENT OF ROUTER HARDWARE.
5. UNITS TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST, ACOUSTICAL CEILING OR STRUCTURE. PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
6. FURNISH AND INSTALL CUSTOM COVER OVER WIRELESS ACCESS POINT (WAP) ROUTERS LOCATED IN INMATE AREAS LIKE TERRAWAVE SOLUTIONS #V10102-C-1131 OR APPROVED EQUAL. COVER SHALL BE SIZED TO MATCH ROUTER AND UTILIZE TORX-HEAD CENTER PIN SCREWS.

H. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE.

I. SEE DRAWING E-607, DETAIL #1 FOR CATV DISTRIBUTION RISER.

J. DRY FIRE SUPPRESSION TO BE INSTALLED IN ELECTRICAL AND IT ROOMS (REFER TO FIRE SUPPRESSION SERIES DRAWINGS). DRY FIRE SUPPRESSION ALARM/DETECTION CABINET(S) SHALL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL. CABINET(S) ARE NOT INDICATED ON THIS DRAWING (FIELD COORDINATE CABINET LOCATIONS PRIOR TO CONSTRUCTION) AND INCLUDE WITH SHOP DRAWING SUBMITTAL. PROVIDE 2 #12, #12G. FROM EACH DRY SUPPRESSION ALARM/DETECTION CABINET BACK TO NEAREST AVAILABLE 20A/1P BREAKER (IN A LEGALLY REQUIRED PANELBOARD).

K. ROUTE VESDA SAMPLING TUBING IN CONDUIT (SIZE AS REQUIRED BY FIRE ALARM VENDOR) ABOVE INACCESSIBLE DETENTION CEILINGS. ALSO REFER TO SPECIFICATION 284621.11 FOR DETAILED REQUIREMENTS FOR VESDA EQUIPMENT/TUBING/DETECTORS, CONTRACTOR QUALIFICATION REQUIREMENTS, AND REQUIREMENTS FOR A WORKMANLIKE INSTALLATION OF ALL ASSOCIATED APPURTENANCES.

L. SMOKE DETECTORS IN MECHANICAL CHASES (LOCATED BEHIND CELLS) ARE NOT REQUIRED FOR SMOKE EVAC SYSTEM FOR CELLS/DAYROOMS. REFER TO MECHANICAL PLANS FOR SMOKE EVAC SYSTEM SEQUENCE OF CONTROL.

SYSTEMS KEYNOTES

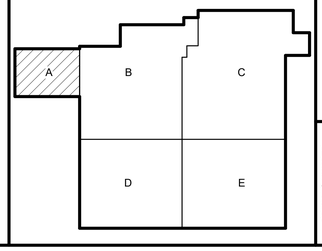
2705##
2805##

270506 TELEPHONE TERMINAL BOARD "TTB-1". FURNISH AND INSTALL 4' X 8' X 3/4" FIRE RETARDENT PLYWOOD FOR TELEPHONE/CATV DEMARK. PAINT (2) COATS MARINE GRADE FIRE RETARDENT PAINT TO MATCH WALL FINISH.

270507 FURNISH AND INSTALL A 10-POINT GROUND TERMINAL STRIP ON TELEPHONE TERMINAL BOARD. BOND ALL COMMUNICATIONS EQUIPMENT ON TELEPHONE TERMINAL BOARD TO TERMINAL STRIP WITH #10 AWG GREEN INSULATED GROUND CABLE. REFER TO DETAIL 2 ON SHEET E-803.

280508 CO AND NO2 SENSORS (FURNISHED AND INSTALLED BY OTHERS) SHALL BE MONITORED BY THE BMS (BUILDING MANAGEMENT SYSTEM). ALARMING TO FIRE ALARM CONTROL PANEL FOR HIGH CO OR NO2 LEVELS SHALL BE ACTIVATED BY THE BMS PANEL (VIA BACnet COMMUNICATION/MONITORING PATHWAY BETWEEN BMS AND FACP-1).

KEY PLAN



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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PE60018675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW, TKF
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR AND MEZZANINE SYSTEMS PLANS - AREA A

DRAWING NUMBER E-401-A
ELECTRICAL

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GENERAL NOTES

A. REFER TO DRAWING E-803, DETAIL #10 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.

B. CONTRACTOR SHALL COORDINATE ALL DEVICE HEIGHTS AND EXACT LOCATIONS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATION DRAWINGS.

C. ALL FIRE ALARM CONDUITS SHALL BE FACTORY PAINTED "RED". ALL PULL/JUNCTION BOX COVERS SHALL BE FACTORY PAINTED RED.

D. FOR MUTOA BACKBOX AND IN-WALL SLEEVE DETAIL, SEE DETAIL #10 ON DRAWING E-801.

E. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

F. REFER TO SECURITY DRAWINGS, #SE SERIES, AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL SECURITY SYSTEM REQUIREMENTS. PROVIDE BOXES AND RACEWAYS CABLING, AND ASSOCIATED ITEMS AS NECESSARY FOR A COMPLETE AND FUNCTIONAL SECURITY SYSTEM.

G. PROPOSED WAP LOCATIONS AND QUANTITY SHOWN ARE SCHEMATIC ONLY. WAP VENDOR SHALL PROVIDE EXACT LOCATIONS AND QUANTITY OF WIRELESS ACCESS POINTS.

1. FURNISH AND INSTALL SPECIFICATION GRADE, POWER OVER ETHERNET, WIRELESS ACCESS POINT (WAP) ROUTERS FOR COMPLETE COVERAGE OF BUILDING; QUANTITY AND LOCATION TO BE DETERMINED BY WAP VENDOR USING PREDICTIVE ANALYSIS SOFTWARE.
2. ROUTER MANUFACTURERS SHALL BE BY NETGEAR, RUCKUS OR CISCO. PROVIDE WITH NETWORK MANAGEMENT SOFTWARE. WAP VENDOR SHALL PROVIDE A PREDICTIVE ANALYSIS OF WIRELESS PERFORMANCE AND WIRELESS ROUTERS.
3. PROVIDE INDICATING PREDICTIVE TRAFFIC/USAGE AND COVERAGE PATTERNS AS PART OF SHOP DRAWING SUBMITTAL.
4. FURNISH AND INSTALL (2) CAT 6 DATA CABLE WITH 10' OF SLACK FOR FINAL PLACEMENT OF ROUTER HARDWARE.
5. UNITS TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST, ACOUSTICAL CEILING OR STRUCTURE. PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
6. FURNISH AND INSTALL CUSTOM COVER OVER WIRELESS ACCESS POINT (WAP) ROUTERS LOCATED IN INMATE AREAS LIKE TERRAWAVE SOLUTIONS #V10102-C-1131 OR APPROVED EQUAL. COVER SHALL BE SIZED TO MATCH ROUTER AND UTILIZE TORX-HEAD CENTER PIN SCREWS.

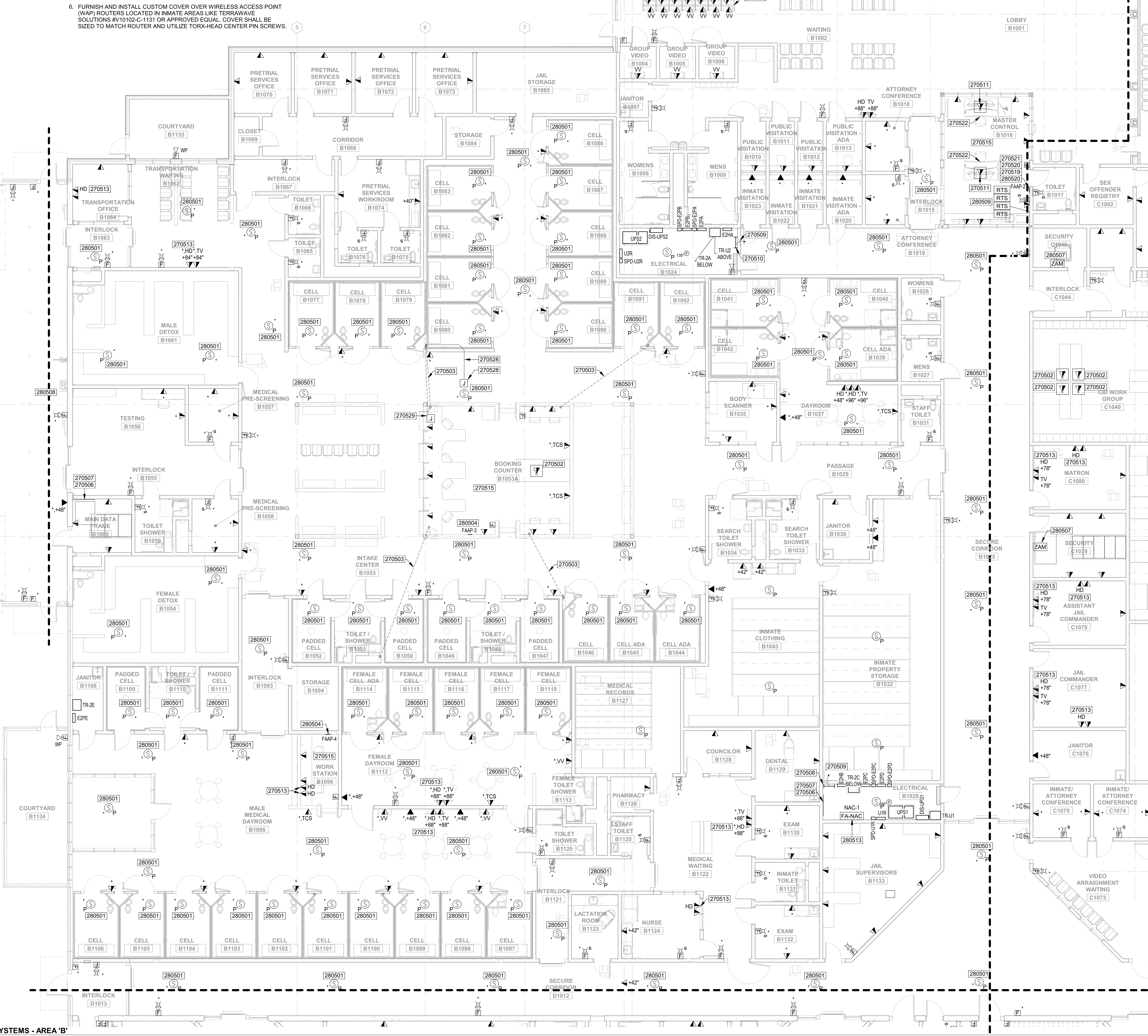
H. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE.

I. SEE DRAWING E-607, DETAIL #1 FOR CATV DISTRIBUTION RISER.

J. DRY FIRE SUPPRESSION TO BE INSTALLED IN ELECTRICAL AND IT ROOMS (REFER TO FIRE SUPPRESSION SERIES DRAWINGS). DRY FIRE SUPPRESSION ALARM/DETECTION CABINET(S) SHALL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL. CABINET(S) ARE NOT INDICATED ON THIS DRAWING (FIELD COORDINATE CABINET LOCATIONS PRIOR TO CONSTRUCTION) AND INCLUDE WITH SHOP DRAWING SUBMITTAL. PROVIDE 2 #12, #12G. FROM EACH DRY SUPPRESSION ALARM/DETECTION CABINET BACK TO NEAREST AVAILABLE 20A/1P BREAKER (IN A LEGALLY REQUIRED PANELBOARD).

K. ROUTE VESDA SAMPLING TUBING IN CONDUIT (SIZE AS REQUIRED BY FIRE ALARM VENDOR) ABOVE INACCESSIBLE DETENTION CEILINGS.

L. SMOKE DETECTORS IN MECHANICAL CHASES (LOCATED BEHIND CELLS) ARE NOT REQUIRED FOR SMOKE EVAC SYSTEM FOR CELLS/DAYROOMS. REFER TO MECHANICAL PLANS FOR SMOKE EVAC SYSTEM SEQUENCE OF CONTROL.



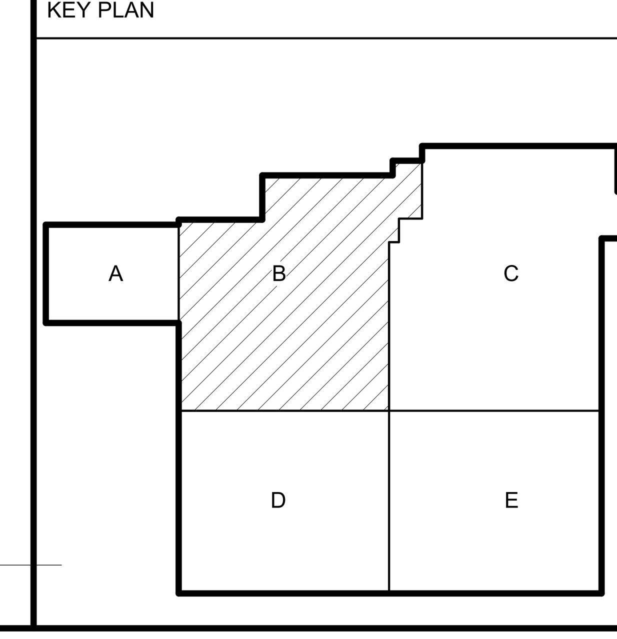
1 FIRST FLOOR SYSTEMS - AREA 'B'
E-401-B SCALE: 1/8" = 1'-0"
NORTH

SYSTEMS KEYNOTES

2705## 2805##

270502	NEW 4-GANG FLOOR BOX, REFER TO KEYNOTE #260521 OR #260527 ON DRAWING #E-201-C. FURNISH AND INSTALL (1) DATA/COMMUNICATIONS OUTLET WITH SIX (6) CAT.6 JACKS/CABLES. ROUTE (1)-1-1/4"C. AS SHOWN FROM BOX OVER AND UP WALL TO NEAREST CABLE TRAY FOR CABLING.
270503	FURNISH AND INSTALL (1)-2"C. FROM BELOW COUNTER AREA OVER TO CHASE AND STUBBED OUT AT +12" A.F.F. FOR FUTURE COMMUNICATIONS CABLING. FURNISH WITH PULLSTRING.
270506	TELEPHONE TERMINAL BOARD 'TTB-1'. FURNISH AND INSTALL 4' X 8' X 3/4" FIRE RETARDENT PLYWOOD FOR TELEPHONE/CATV DEMARK. PAINT (2) COATS MARINE GRADE FIRE RETARDENT PAINT TO MATCH WALL FINISH.
270507	FURNISH AND INSTALL A 10-POINT GROUND TERMINAL STRIP ON TELEPHONE TERMINAL BOARD. BOND ALL COMMUNICATIONS EQUIPMENT ON TELEPHONE TERMINAL BOARD TO TERMINAL STRIP WITH #10 AWG GREEN INSULATED GROUND CABLE. REFER TO DETAIL 2 ON SHEET E-803.
270508	GROUND BUS BAR NO.2. MOUNT AT +8'-0" AFF. REFER TO TELE-DATA EQUIPMENT GROUND BUS DETAIL #3, SHEET E-803. BOND TO MAIN GROUND BUS BAR NO.1 (IN location) USE #1/0AWG COPPER GREEN INSULATED CABLE.
270509	#1/0 AWG GREEN INSULATED GROUND CABLE. BOND TO MAIN GROUND BUS #1 (IN MECHANICAL #A150). REFER TO DETAIL #4, DRAWING E-803.
270510	GROUND BUS BAR NO.3. MOUNT AT +8'-0" AFF. REFER TO TELE-DATA EQUIPMENT GROUND BUS DETAIL #3, SHEET E-803. BOND TO MAIN GROUND BUS BAR NO.1 (IN location) USE #1/0AWG COPPER GREEN INSULATED CABLE.
270511	NEW 8-GANG FLOOR BOX, REFER TO KEYNOTE #260524 ON E-201 SERIES DRAWINGS. FURNISH AND INSTALL (1) DATA/COMMUNICATIONS OUTLET WITH SIX (6) CAT.6 JACKS/CABLES. ROUTE (2)-1"C. FROM BOX OVER AND UP WALL TO NEAREST CABLE TRAY FOR CABLING.
270513	FURNISH AND INSTALL SPECIALTY OUTLET WITH (1) HDMI PORT FOR INTERFACING LAPTOP/COMPUTER WITH TV IN ROOM. FURNISH AND INSTALL PRE-TERMINATED HDMI BETWEEN LAPTOP/COMPUTER INTERFACE MUTOA AND TV INTERFACE MUTOA WITH 1"C. FURNISH MATCHING HDMI PORT AT TV LOCATION.
270515	PROVIDE SIGNAL REFERENCE GROUNDING FOR RAISED FLOOR, REFER TO RAISED FLOOR GROUNDING DETAIL #8 ON SHEET E-802.
270519	ATS ANNUNCIATOR PANEL 'ATS-ANN1', RECESS MOUNTED. VERIFY EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.
270520	ATS ANNUNCIATOR PANEL 'ATS-ANN2', RECESS MOUNTED. VERIFY EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.
270521	GENERATOR ANNUNCIATOR PANEL 'GEN-ANN', RECESS MOUNTED. VERIFY EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.
270522	FURNISH AND INSTALL (1)-2"C. FROM BELOW WORKSTATION ROUTED TO NEAREST WALL AND STUBBED OUT ABOVE CEILING WITH BUSHING FOR DVI CABLE BETWEEN MONITOR(S) AND NETWORK VIDEO CLIENTS PCS. FURNISH WITH PULLSTRING. COORDINATE EXACT LOCATION OF WORKSTATION.
270527	ROUTE COMMUNICATIONS CABLING UP TO VIDEO VISITATION STATION THROUGH CABINET SUPPORT LEGS. COORDINATE WITH EQUIPMENT SUPPLIER.
270528	MUGSHOT CAMERA BY OWNER. FURNISH AND INSTALL ONE FLUSH MOUNTED 2-GANG BOX WITH (1) 1-1/4C. OVER TO NEW 2-GANG BOX AT BOOKING COUNTER #B1053A FOR CAMERA CAPTURING, REFERENCE NOTE #270529. VERIFY EXACT LOCATION OF BOX WITH OWNER/ARCHITECT BEFORE ROUGH-IN.
270529	MUGSHOT CAMER CAPTURING LOCATION. FURNISH AND INSTALL ONE FLUSH MOUNTED 2-GANG BOX AT LOCATION DETERMINED BY OWNER/ARCHITECT. CONNECT TO NEW 2-GANG BOX AT MUGSHOT CAMERA, REFERENCE NOTE #270528. VERIFY EXACT LOCATION OF BOX WITH OWNER/ARCHITECT BEFORE ROUGH-IN.
280501	REFER TO SMOKE DETECTOR DETENTION COVER DETAIL #9, DRAWING E-801.
280504	FIRE ALARM ANNUNCIATOR PANEL (F.A.A.P.). PANEL TO BE RECESS MOUNTED WITH TOP AT +60" A.F.F. PROVIDE CONNECTION PER MANUFACTURER'S RECOMMENDATION TO MAIL FIRE ALARM CONTROL PANEL (FACP-1) IN ELECTRICAL ROOM #C1054.
280505	FIRE ALARM HORN/STROBE TO ACTIVATE WHEN WATER IS FLOWING IN SPRINKLER SYSTEM. FIELD LOCATE EXTERIOR HORN/STROBE SO THAT IT IS READILY VISIBLE TO THE APPROACHING FIRE DEPARTMENT FROM THE PUBLIC STREET, ROAD, OR HIGHWAY AND PUBLIC ENTRY WAY. REFER TO IBC 903.4.2 FIELD VERIFY LOCATION IS ACCEPTABLE TO AHJ PRIOR TO CONSTRUCTION.
280507	ROOM CONTAINS SELF-CONTAINED DRY-POWDER FIRE SUPPRESSION SYSTEM. PROVIDE ZAM FOR ALARM MONITORING OF FIRE SUPPRESSION SYSTEM CONTROL PANEL BY FIRE ALARM CONTROL PANEL (FACP-1) LOCATED IN ELECTRICAL ROOM #C1054 AS RECOMMENDED BY SYSTEM MANUFACTURER. FURNISH CABLING AS REQUIRED IN 3/4"C. COORDINATE WITH MECHANICAL CONTRACTOR AND INSTALL/WIRE ALL ASSOCIATED ELECTRICAL APPURTENANCES AND DEVICES (I.E. SMOKE DETECTOR, PULL STATION, TELEPHONE OUTLET) TO FIRE SUPPRESSION PANEL AS NECESSARY AND AS REQUIRED BY FIRE SUPPRESSION SYSTEM MANUFACTURER.
280508	CO AND NO2 SENSORS (FURNISHED AND INSTALLED BY OTHERS) SHALL BE MONITORED BY THE BMS (BUILDING MANAGEMENT SYSTEM). ALARMING TO FIRE ALARM CONTROL PANEL FOR HIGH CO OR NO2 LEVELS SHALL BE ACTIVATED BY THE BMS PANEL (VIA BACnet COMMUNICATION/MONITORING PATHWAY BETWEEN BMS AND FACP-1).
280509	REMOTE TEST STATIONS FOR AIR HANDLING UNITS IN PENTHOUSE (FOR INTERLOCKING SHUT-DOWN INDICATION AND TESTING OF AIR HANDLING UNIT UPON DUCT SMOKE DETECTION). REFER TO PENTHOUSE ELECTRICAL PLAN ON DRAWING E-202-BC. MOUNT ON WALL NEAR FIRE ALARM ANNUNCIATOR PANEL 'FAAP-2'.
280513	REFER TO FIRE ALARM/DETECTION RISER DIAGRAM ON DRAWING E-804.
280520	INTERACTIVE FIREFIGHTERS' TOUCHSCREEN DISPLAY PANEL TO BE RECESS MOUNTED WITH TOP AT +60" AFF. PROVIDE CONNECTION PER MANUFACTURER'S RECOMMENDATION TO FIRE ALARM CONTROL PANEL (FACP-1) IN ELECTRICAL ROOM #C1054.

KEY PLAN



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DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RDW | CHK'D: MLH
DESIGNED: RDW,TKF
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR SYSTEMS PLAN - AREA B

DRAWING NUMBER
E-401-B
ELECTRICAL

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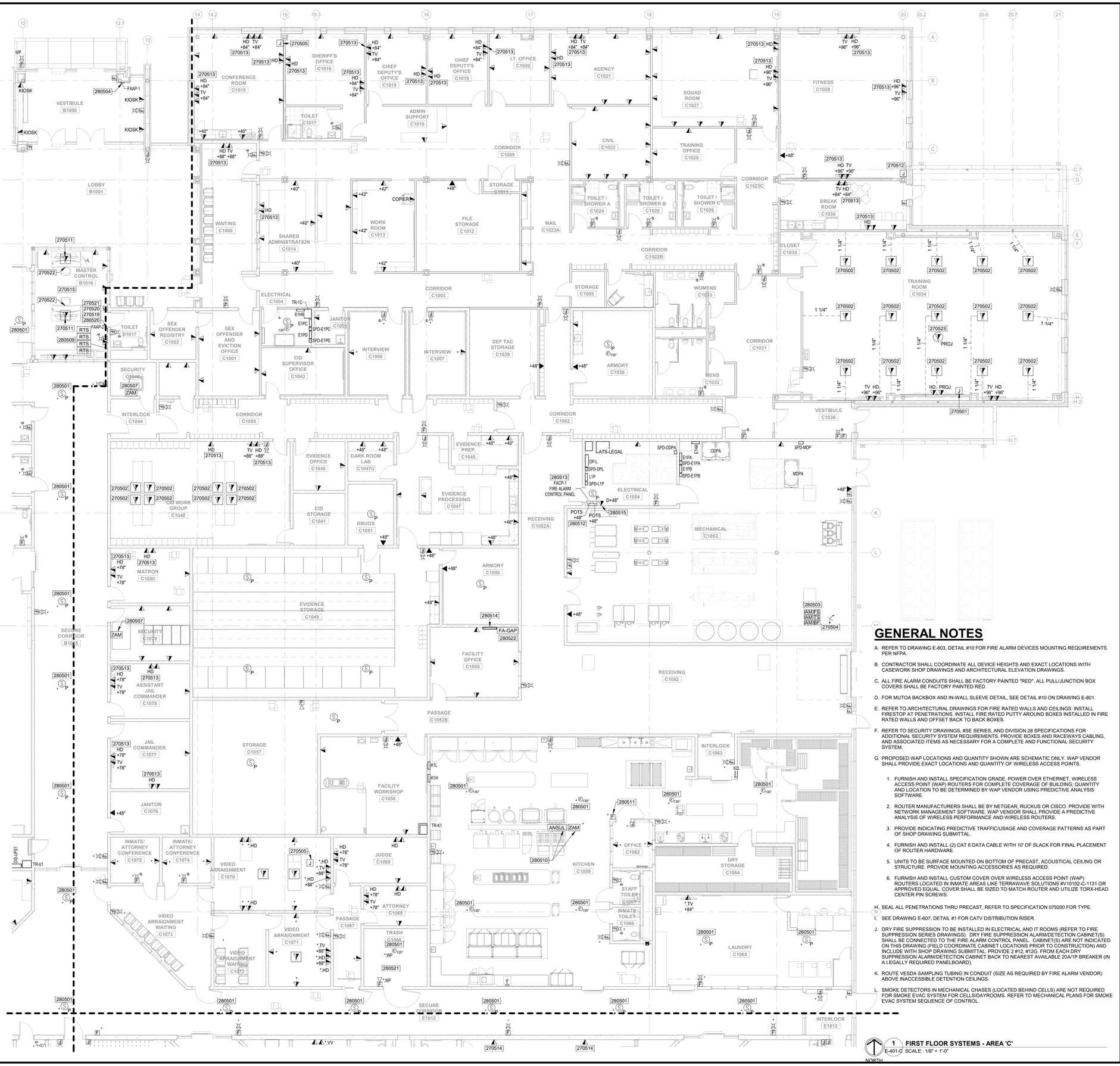


1 FIRST FLOOR SYSTEMS - AREA 'C'
E-401-C SCALE: 1/8" = 1'-0"

SYSTEMS KEYNOTES 2705## 2805##

270501 FURNISH AND INSTALL ONE 2-PORT HDMI SPLITTER LIKE KVMSWITCH #HDMI-VS-2P OR APPROVED EQUAL TO SPLIT ONE HDMI SIGNAL INPUT ONTO TWO IDENTICAL TV'S SIMULTANEOUSLY. SPLITTER TO BE LOCATED ABOVE ACCESSIBLE CEILING.

270502 NEW 4-GANG FLOOR BOX, REFER TO KEYNOTE #260521 OR #260527 ON DRAWING #E-201-C. FURNISH AND INSTALL (1) DATA/COMMUNICATIONS OUTLET WITH SIX (6) CAT.6 JACKS/CABLES. ROUTE (1)-1-1/4"C. AS SHOWN FROM BOX OVER AND UP WALL TO NEAREST CABLE TRAY FOR CABLING.

270504 BOND WATER SERVICE TO MAIN GROUND BUS BAR. USE #4 AWG GREEN INSULATED GROUNDING ELECTRODE CABLE. REFER TO SERVICE GROUNDING ELECTRODE SYSTEM SCHEMATIC DETAIL #1, SHEET E-803.

270505 FURNISH AND INSTALL ONE 3-PORT HDMI VIDEO SWITCH LIKE KVMSWITCH #SE-HD-L-C OR APPROVED EQUAL TO DISPLAY VIDEO/AUDIO SIGNALS FROM MULTIPLE SOURCES ONTO ONE HDMI DISPLAY. SWITCH TO BE LOCATED ABOVE ACCESSIBLE CEILING.

270511 NEW 8-GANG FLOOR BOX, REFER TO KEYNOTE #260524 ON E-201 SERIES DRAWINGS. FURNISH AND INSTALL (1) DATA/COMMUNICATIONS OUTLET WITH SIX (6) CAT.6 JACKS/CABLES. ROUTE (2)-1"C. FROM BOX OVER AND UP WALL TO NEAREST CABLE TRAY FOR CABLING.

270512 FURNISH AND INSTALL ONE 4-PORT HDMI SPLITTER LIKE SEWELL #SW-32893 OR APPROVED EQUAL TO SPLIT ONE HDMI SIGNAL INPUT ONTO FOUR TV'S SIMULTANEOUSLY. SPLITTER TO BE LOCATED ABOVE ACCESSIBLE CEILING.

270513 FURNISH AND INSTALL SPECIALITY OUTLET WITH (1) HDMI PORT FOR INTERFACING LAPTOP/COMPUTER WITH TV IN ROOM. FURNISH AND INSTALL PRE-TERMINATED HDMI BETWEEN LAPTOP/COMPUTER INTERFACE MUTOA AND TV INTERFACE MUTOA WITH 1"C. FURNISH MATCHING HDMI PORT AT TV LOCATION.

270514 FURNISH AND INSTALL DEVICE IN CUSTOM FLUSH MOUNTED, LOCKABLE WALL CABINET. FOR CABINET DETAIL, SEE SHEET E-803, DETAIL #7.

270515 PROVIDE SIGNAL REFERENCE GROUNDING FOR RAISED FLOOR, REFER TO RAISED FLOOR GROUNDING DETAIL #8 ON SHEET E-802.

270519 ATS ANNUNCIATOR PANEL 'ATS-ANN1', RECESS MOUNTED. VERIFY EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.

270520 ATS ANNUNCIATOR PANEL 'ATS-ANN2', RECESS MOUNTED. VERIFY EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.

270521 GENERATOR ANNUNCIATOR PANEL 'GEN-ANN', RECESS MOUNTED. VERIFY EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.

270522 FURNISH AND INSTALL (1)-2"C. FROM BELOW WORKSTATION ROUTED TO NEAREST WALL AND STUBBED OUT ABOVE CEILING WITH BUSHING FOR DVI CABLE BETWEEN MONITOR(S) AND NETWORK VIDEO CLIENTS PCS. FURNISH WITH PULLSTRING. COORDINATE EXACT LOCATION OF WORKSTATION.

270523 DEVICE TO BE FLUSH MOUNTED IN CEILING FOR CEILING PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT BEFORE ROUGH-IN.

280501 REFER TO SMOKE DETECTOR DETENTION COVER DETAIL #9, DRAWING E-801.

280503 PROVIDE FLOW MONITOR SWITCH, TAMPER MONITOR SWITCH AND BACKFLOW PREVENTOR MONITOR SWITCH FOR EACH SPRINKLER ZONE. REFER TO FIRE SUPPRESSION SHEETS FOR ZONE REQUIREMENTS.

280504 FIRE ALARM ANNUNCIATOR PANEL (F.A.A.P.). PANEL TO BE RECESS MOUNTED WITH TOP AT +60" A.F.F. PROVIDE CONNECTION PER MANUFACTURER'S RECOMMENDATION TO MAIL FIRE ALARM CONTROL PANEL (FACP-1) IN ELECTRICAL ROOM #C1054.

280507 ROOM CONTAINS SELF-CONTAINED DRY-POWDER FIRE SUPPRESSION SYSTEM. PROVIDE ZAM FOR ALARM MONITORING OF FIRE SUPPRESSION SYSTEM CONTROL PANEL BY FIRE ALARM CONTROL PANEL (FACP-1) LOCATED IN ELECTRICAL ROOM #C1054 AS RECOMMENDED BY SYSTEM MANUFACTURER. FURNISH CABLING AS REQUIRED IN 3/4"C. COORDINATE WITH MECHANICAL CONTRACTOR AND INSTALL/WIRE ALL ASSOCIATED ELECTRICAL APPURTENANCES AND DEVICES (I.E. SMOKE DETECTOR, PULL STATION, TELEPHONE OUTLET) TO FIRE SUPPRESSION PANEL AS NECESSARY AND AS REQUIRED BY FIRE SUPPRESSION SYSTEM MANUFACTURER.

280509 REMOTE TEST STATIONS FOR AIR HANDLING UNITS IN PENTHOUSE (FOR INTERLOCKING SHUT-DOWN INDICATION AND TESTING OF AIR HANDLING UNIT UPON DUCT SMOKE DETECTION). REFER TO PENTHOUSE ELECTRICAL PLAN ON DRAWING E-202-BC. MOUNT ON WALL NEAR FIRE ALARM ANNUNCIATOR PANEL 'FAAP-2'.

280510 KITCHEN HOOD IS EQUIPPED WITH ANSUL (DRY-TYPE FIRE SUPPRESSION SYSTEM). PROVIDE ZAM FOR ALARM MONITORING OF FIRE SUPPRESSION ACTIVATION WITH ANSUL SYSTEM. CONNECT TO ANSUL PANEL WITH 3/4"C. (CABLING TYPE AS REQUIRED BY ANSUL MFR).

280511 PROVIDE A (KEYED) MANUAL ACTIVATION DEVICE ALONG THE MEANS OF EGRESS AND LOCATED A MINIMUM OF 10'-0" AND A MAXIMUM OF 20'-0", FROM KITCHEN HOOD EXHAUST SYSTEM. INTERCONNECT TO ANSUL SYSTEM TO AUTOMATICALLY SHUT-DOWN POWER TO (AND SHUT-OFF GAS TO) EQUIPMENT LOCATED UNDER THE KITCHEN HOOD AND TO AUTOMATICALLY ACTIVATE KITCHEN HOOD FIRE SUPPRESSION SYSTEM. CONNECT TO ANSUL PANEL WITH 3/4"C. (CABLING TYPE AS REQUIRED BY ANSUL MFR). REFER TO MECHANICAL AND KITCHEN EQUIPMENT VENDOR DRAWINGS FOR REQUIREMENTS FOR SHUT-DOWN OF THE KITCHEN MAKE-UP-AIR UNIT UPON ANSUL ACTIVATION.

280512 PROVIDE TWO (2) POTS OUTLETS FOR EACH OF TWO (UDACTS) IN FIRE ALARM CONTROL PANEL. CONNECT TO UDACTS. POTS LINES SHALL BE WIRED DIRECTLY BACK 110 BLOCK ON TELEPHONE TERMINAL BOARD TTB-1 (LOCATED IN ROOM MAIN DATA FRAME #B1060 AHEAD OF OTHER TELEPHONE HEAD-END EQUIPMENT. COORDINATE WITH OWNER AND TELEPHONE UTILITY AND PROVIDE TWO (2) DEDICATED OUTSIDE TELEPHONE LINES.

280513 REFER TO FIRE ALARM/DETECTION RISER DIAGRAM ON DRAWING E-604.

280514 GRAPHIC ANNUNCIATOR WORKSTATION AND PRINTER FOR FIRE ALARM/DETECTION SYSTEM. MOUNT WORKSTATION/PRINTER ADJACENT TO FACILITY MANAGER'S DESK AT A SEPARATE, DEDICATED WORKSTATION WITHIN THIS ROOM. PC, MONITORS, PRINTER, FURNISHED BY FIRE ALARM VENDOR. WORKSTATION FURNITURE, UPS PROVIDED BY OWNER AS PART OF LOOSE FURNISHINGS. REFER TO SPECIFICATION 284621.11 FOR DETAILED REQUIREMENTS.

280515 PROVIDE ONE (1) DATA OUTLET AT FIRE ALARM CONTROL PANEL FOR INTRANET/INTERNET CONNECTION FOR VPN REMOTE WEB (CLOUD) BASED ACCESS FOR PUSH NOTIFICATIONS OF ALARMS TO REMOTE USERS (I.E. MAINTENANCE PERSONNEL LAPTIONS, TABLETS, MOBILE PHONES, ETC.). ALSO COULD BASED SOFTWARE IS AVAILABLE BY MANUFACTUERE TO REAL-TIME REMOTE MONITORING/PINGING/TROUBLESHOOTING OF FIRE ALARM CONTROL PANEL FROM REMOTE USERS (I.E. SERIVCE TECHNICIAN LAPTION, MAINTENANCE PERSONNEL LAPTOP, ETC.).

280520 INTERACTIVE FIREFIGHTERS' TOUCHSCREEN DISPLAY PANEL TO BE RECESS MOUNTED WITH TOP AT +60" AFF. PROVIDE CONNECTION PER MANUFACTURER'S RECOMMENDATION TO FIRE ALARM CONTROL PANEL (FACP-1) IN ELECTRICAL ROOM #C1054.

280521 DEVICES IN TRASH ROOM #c1066 SHALL BE EQUIPPED WITH WATERTIGHT COVER SUITABLE FOR PROTECTION FROM WATER HOSE SPRAY.

280522 PROVIDE A NON-POWERED/NON0ILLUMINATED GRAPHIC ANNUNCIATOR PANEL FOR FIRE ALARM/DETECTION SYSTEM. REFER TO SPECIFICATION 284621.11 "ADDRESSABLE FIRE-ALARM SYSTEM" FOR DETAILED REQUIREMENTS. MOUNT ABOVE OR ADJACENT TO FIRE ALARM GRAPHIC WORKSTATION.

GENERAL NOTES

A. REFER TO DRAWING E-803, DETAIL #10 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.

B. CONTRACTOR SHALL COORDINATE ALL DEVICE HEIGHTS AND EXACT LOCATIONS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATION DRAWINGS.

C. ALL FIRE ALARM CONDUITS SHALL BE FACTORY PAINTED "RED". ALL PULL/JUNCTION BOX COVERS SHALL BE FACTORY PAINTED RED.

D. FOR MUTOA BACKBOX AND IN-WALL SLEEVE DETAIL, SEE DETAIL #10 ON DRAWING E-801.

E. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

F. REFER TO SECURITY DRAWINGS, #SE SERIES, AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL SECURITY SYSTEM REQUIREMENTS. PROVIDE BOXES AND RACEWAYS CABLING, AND ASSOCIATED ITEMS AS NECESSARY FOR A COMPLETE AND FUNCTIONAL SECURITY SYSTEM.

G. PROPOSED WAP LOCATIONS AND QUANTITY SHOWN ARE SCHEMATIC ONLY. WAP VENDOR SHALL PROVIDE EXACT LOCATIONS AND QUANTITY OF WIRELESS ACCESS POINTS.

1. FURNISH AND INSTALL SPECIFICATION GRADE, POWER OVER ETHERNET, WIRELESS ACCESS POINT (WAP) ROUTERS FOR COMPLETE COVERAGE OF BUILDING; QUANTITY AND LOCATION TO BE DETERMINED BY WAP VENDOR USING PREDICTIVE ANALYSIS SOFTWARE.
2. ROUTER MANUFACTURERS SHALL BE BY NETGEAR, RUCKUS OR CISCO. PROVIDE WITH NETWORK MANAGEMENT SOFTWARE. WAP VENDOR SHALL PROVIDE A PREDICTIVE ANALYSIS OF WIRELESS PERFORMANCE AND WIRELESS ROUTERS.
3. PROVIDE INDICATING PREDICTIVE TRAFFIC/USAGE AND COVERAGE PATTERNS AS PART OF SHOP DRAWING SUBMITTAL.
4. FURNISH AND INSTALL (2) CAT 6 DATA CABLE WITH 10' OF SLACK FOR FINAL PLACEMENT OF ROUTER HARDWARE.
5. UNITS TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST, ACOUSTICAL CEILING OR STRUCTURE. PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
6. FURNISH AND INSTALL CUSTOM COVER OVER WIRELESS ACCESS POINT (WAP) ROUTERS LOCATED IN INMATE AREAS LIKE TERRAWAVE SOLUTIONS #V10102-C-1131 OR APPROVED EQUAL. COVER SHALL BE SIZED TO MATCH ROUTER AND UTILIZE TORX-HEAD CENTER PIN SCREWS.

H. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE.

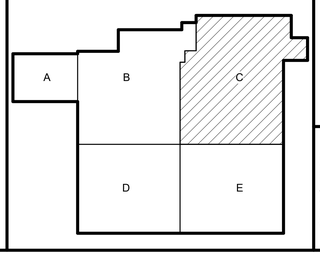
I. SEE DRAWING E-607, DETAIL #1 FOR CATV DISTRIBUTION RISER.

J. DRY FIRE SUPPRESSION TO BE INSTALLED IN ELECTRICAL AND IT ROOMS (REFER TO FIRE SUPPRESSION SERIES DRAWINGS). DRY FIRE SUPPRESSION ALARM/DETECTION CABINET(S) SHALL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL. CABINET(S) ARE NOT INDICATED ON THIS DRAWING (FIELD COORDINATE CABINET LOCATIONS PRIOR TO CONSTRUCTION) AND INCLUDE WITH SHOP DRAWING SUBMITTAL. PROVIDE 2 #12, #12G. FROM EACH DRY SUPPRESSION ALARM/DETECTION CABINET BACK TO NEAREST AVAILABLE 20A/1P BREAKER (IN A LEGALLY REQUIRED PANELBOARD).

K. ROUTE VESDA SAMPLING TUBING IN CONDUIT (SIZE AS REQUIRED BY FIRE ALARM VENDOR) ABOVE INACCESSIBLE DETENTION CEILINGS.

L. SMOKE DETECTORS IN MECHANICAL CHASES (LOCATED BEHIND CELLS) ARE NOT REQUIRED FOR SMOKE EVAC SYSTEM FOR CELLS/DAYROOMS. REFER TO MECHANICAL PLANS FOR SMOKE EVAC SYSTEM SEQUENCE OF CONTROL.

KEY PLAN



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DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW, TKF
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR SYSTEMS PLAN - AREA C

DRAWING NUMBER E-401-C
ELECTRICAL

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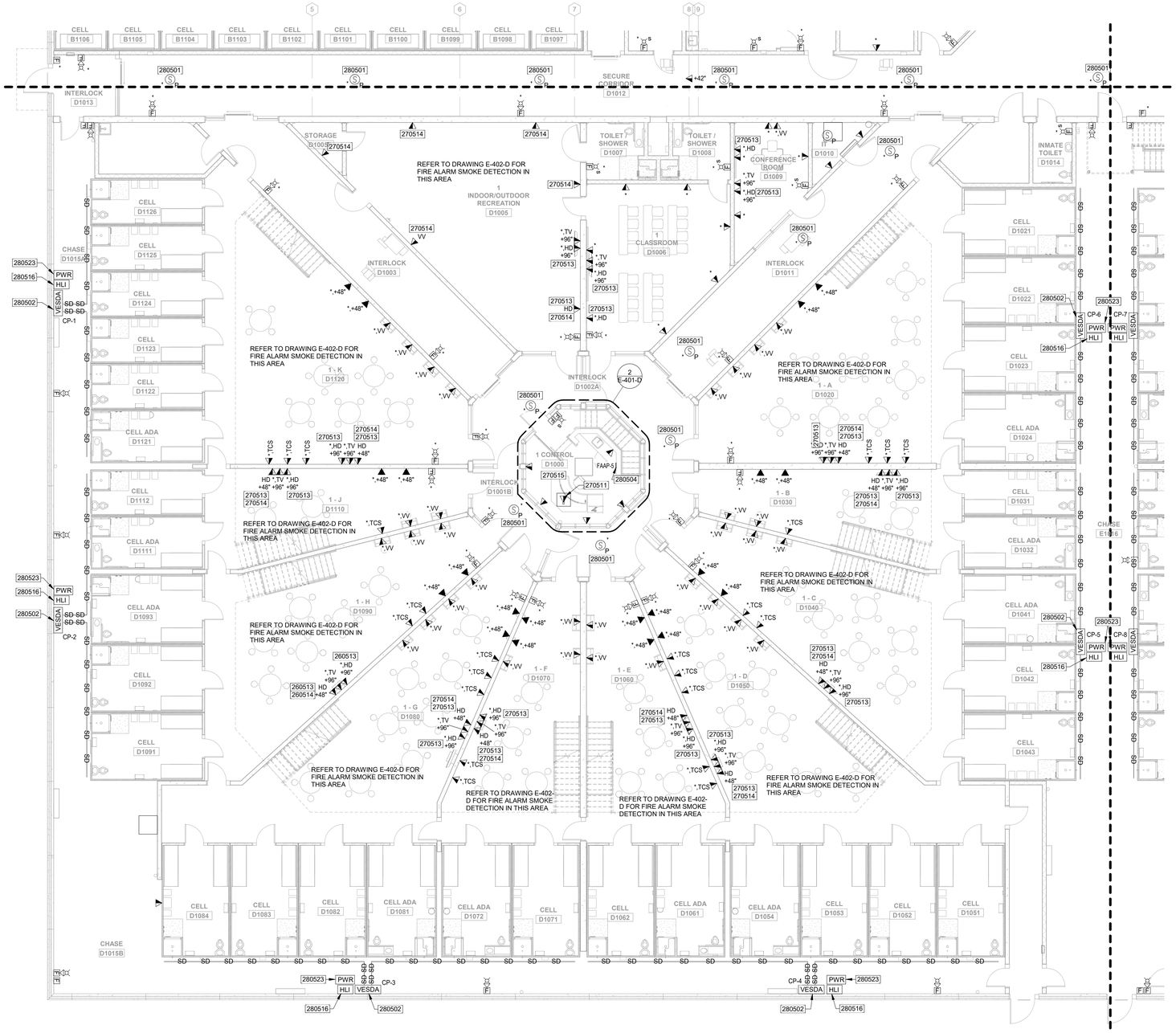
2 LOWER LEVEL SYSTEMS - AREA 'D'
E-401-D SCALE: 1/8" = 1'-0"
NORTH



1 FIRST FLOOR SYSTEMS - AREA 'D'
E-401-D SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO DRAWING E-803, DETAIL #10 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.

B. CONTRACTOR SHALL COORDINATE ALL DEVICE HEIGHTS AND EXACT LOCATIONS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATION DRAWINGS.

C. ALL FIRE ALARM CONDUITS SHALL BE FACTORY PAINTED "RED". ALL PULL/JUNCTION BOX COVERS SHALL BE FACTORY PAINTED RED.

D. FOR MUTOA BACKBOX AND IN-WALL SLEEVE DETAIL, SEE DETAIL #10 ON DRAWING E-801.

E. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

F. REFER TO SECURITY DRAWINGS, #SE SERIES, AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL SECURITY SYSTEM REQUIREMENTS. PROVIDE BOXES AND RACEWAYS CABLING, AND ASSOCIATED ITEMS AS NECESSARY FOR A COMPLETE AND FUNCTIONAL SECURITY SYSTEM.

G. PROPOSED WAP LOCATIONS AND QUANTITY SHOWN ARE SCHEMATIC ONLY. WAP VENDOR SHALL PROVIDE EXACT LOCATIONS AND QUANTITY OF WIRELESS ACCESS POINTS.

1. FURNISH AND INSTALL SPECIFICATION GRADE, POWER OVER ETHERNET, WIRELESS ACCESS POINT (WAP) ROUTERS FOR COMPLETE COVERAGE OF BUILDING; QUANTITY AND LOCATION TO BE DETERMINED BY WAP VENDOR USING PREDICTIVE ANALYSIS SOFTWARE.

2. ROUTER MANUFACTURERS SHALL BE BY NETGEAR, RUCKUS OR CISCO. PROVIDE WITH NETWORK MANAGEMENT SOFTWARE. WAP VENDOR SHALL PROVIDE A PREDICTIVE ANALYSIS OF WIRELESS PERFORMANCE AND WIRELESS ROUTERS.

3. PROVIDE INDICATING PREDICTIVE TRAFFIC/USAGE AND COVERAGE PATTERNS AS PART OF SHOP DRAWING SUBMITTAL.

4. FURNISH AND INSTALL (2) CAT 6 DATA CABLE WITH 10' OF SLACK FOR FINAL PLACEMENT OF ROUTER HARDWARE.

5. UNITS TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST, ACOUSTICAL CEILING OR STRUCTURE. PROVIDE MOUNTING ACCESSORIES AS REQUIRED.

6. FURNISH AND INSTALL CUSTOM COVER OVER WIRELESS ACCESS POINT (WAP) ROUTERS LOCATED IN INMATE AREAS LIKE TERRAWAVE SOLUTIONS #V10102-C-1131 OR APPROVED EQUAL. COVER SHALL BE SIZED TO MATCH ROUTER AND UTILIZE TORX-HEAD CENTER PIN SCREWS.

H. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE.

I. SEE DRAWING E-607, DETAIL #1 FOR CATV DISTRIBUTION RISER.

J. DRY FIRE SUPPRESSION TO BE INSTALLED IN ELECTRICAL AND IT ROOMS (REFER TO FIRE SUPPRESSION SERIES DRAWINGS). DRY FIRE SUPPRESSION ALARM/DETECTION CABINET(S) SHALL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL. CABINET(S) ARE NOT INDICATED ON THIS DRAWING (FIELD COORDINATE CABINET LOCATIONS PRIOR TO CONSTRUCTION) AND INCLUDE WITH SHOP DRAWING SUBMITTAL. PROVIDE 2 #12, #12G. FROM EACH DRY SUPPRESSION ALARM/DETECTION CABINET BACK TO NEAREST AVAILABLE 20A/1P BREAKER (IN A LEGALLY REQUIRED PANELBOARD).

K. ROUTE VESDA SAMPLING TUBING IN CONDUIT (SIZE AS REQUIRED BY FIRE ALARM VENDOR) ABOVE INACCESSIBLE DETENTION CEILINGS. ALSO REFER TO SPECIFICATION 284621.11 FOR DETAILED REQUIREMENTS FOR VESDA EQUIPMENT/TUBING/DETECTORS, CONTRACTOR QUALIFICATION REQUIREMENTS, AND REQUIREMENTS FOR A WORKMANLIKE INSTALLATION OF ALL ASSOCIATED APPURTENANCES.

L. SMOKE DETECTORS IN MECHANICAL CHASES (LOCATED BEHIND CELLS) ARE NOT REQUIRED FOR SMOKE EVAC SYSTEM FOR CELLS/DAYROOMS. REFER TO MECHANICAL PLANS FOR SMOKE EVAC SYSTEM SEQUENCE OF CONTROL.

SYSTEMS KEYNOTES

2705##
2805##

270511 NEW 8-GANG FLOOR BOX, REFER TO KEYNOTE #260524 ON E-201 SERIES DRAWINGS. FURNISH AND INSTALL (1) DATA/COMMUNICATIONS OUTLET WITH SIX (6) CAT.6 JACKS/CABLES. ROUTE (2)-1"C. FROM BOX OVER AND UP WALL TO NEAREST CABLE TRAY FOR CABLING.

270513 FURNISH AND INSTALL SPECIALTY OUTLET WITH (1) HDMI PORT FOR INTERFACING LAPTOP/COMPUTER WITH TV IN ROOM. FURNISH AND INSTALL PRE-TERMINATED HDMI BETWEEN LAPTOP/COMPUTER INTERFACE MUTOA AND TV INTERFACE MUTOA WITH 1"C. FURNISH MATCHING HDMI PORT AT TV LOCATION.

270514 FURNISH AND INSTALL DEVICE IN CUSTOM FLUSH MOUNTED, LOCKABLE WALL CABINET. FOR CABINET DETAIL, SEE SHEET E-803, DETAIL #7.

270515 PROVIDE SIGNAL REFERENCE GROUNDING FOR RAISED FLOOR, REFER TO RAISED FLOOR GROUNDING DETAIL #8 ON SHEET E-802.

280501 REFER TO SMOKE DETECTOR DETENTION COVER DETAIL #9, DRAWING E-801.

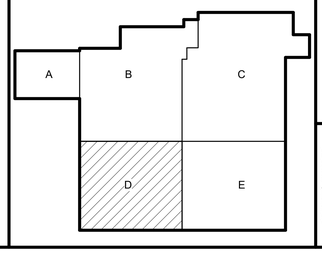
280502 ONE (1) VESDA SMOKE DETECTION SAMPLING POINT/HEAD SHALL BE INSTALLED ON THE RETURN DUCTWORK FOR EACH CELL. ROUTE VESDA TUBING BACK TO VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET. FIELD COORDINATE EXACT CABINET QUANTITIES AND LOCATIONS WITH FIRE ALARM VENDOR PRIOR TO PROCUREMENT/CONSTRUCTION. PROVIDE SHOP DRAWING SUBMITTAL INDICATING EXACT LOCATIONS. VESDA CABINET(S) SHALL BE INSTALLED IN THE CHASE ADJACENT TO THE CELLS(S), WALL MOUNT TOP OF CABINET +6'-0" AFF. REFER TO M-SERIES DRAWINGS FOR HVAC DUCTWORK FOR EACH CELL AND SPECIFICATION SECTION 284621.11 FOR DETAILED REQUIREMENTS. REFER TO FIRE ALARM/DETECTION RISER DIAGRAM ON DRAWING E-804.

280504 FIRE ALARM ANNUNCIATOR PANEL (F.A.A.P.). PANEL TO BE RECESS MOUNTED WITH TOP AT +60" A.F.F. PROVIDE CONNECTION PER MANUFACTURER'S RECOMMENDATION TO MAIL FIRE ALARM CONTROL PANEL (FACP-1) IN ELECTRICAL ROOM #C1054.

280516 PROVIDE HIGH-LEVEL-INTERFACE (HLI) AT EACH VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET FOR VESDA COMMUNICATION NETWORK. CONNECT TO ADJACENT VESDA CABINETS WITHIN A SMOKE CONTROL ZONE AND HOMERUN BACK TO MAIN FIRE ALARM CONTROL PANEL (FACP-1) IN ELECTRICAL ROOM #C1054. [ALTERNATIVELY, WHERE FACP-1 IS NOT SUPPORTED BY THE VESDA COMMUNICATIONS NETWORK, PROVIDE ONE(1) ZAM (FOR MONITORING SMOKE DETECTION ALARM) FOR EACH SMOKE DETECTION SAMPLING POINT ALARM. PROVIDE ONE (1) ZAM (FOR MONITORING GENERAL ALARMS SUCH AS TROUBLE, CLEAN FILTER, ETC.) EACH VESDA AIR SAMPLING SMOKE DETECTION/ALARM CABINET; REFER TO SPECIFICATION 284621.11 FOR DETAILED REQUIREMENTS. ROUTE ZAM(S) BACK TO MAIN FIRE ALARM PANEL (FACP-1) IN ELECTRICAL ROOM #C1054].

280523 PROVIDE VESDA POWER SUPPLY CABINET WITH BATTERY CHARGER/BATTERIES (120VAC INPUT POWER, 24VDC OUTPUT POWER). LOCATE ADJACENT TO EACH AIR SAMPLING SMOKE DETECTOR ALARM/MONITORING PANEL. REFER TO DRAWINGS E-201-D AND E-201-E FOR CIRCUITING INFORMATION.

KEY PLAN



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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK
STATE OF INDIANA
PE60010675
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW | CHKD: MLH
DESIGNED: RDW, TKF
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR AND LOWER LEVEL SYSTEMS PLANS - AREA D

DRAWING NUMBER E-401-D

ELECTRICAL

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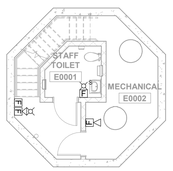
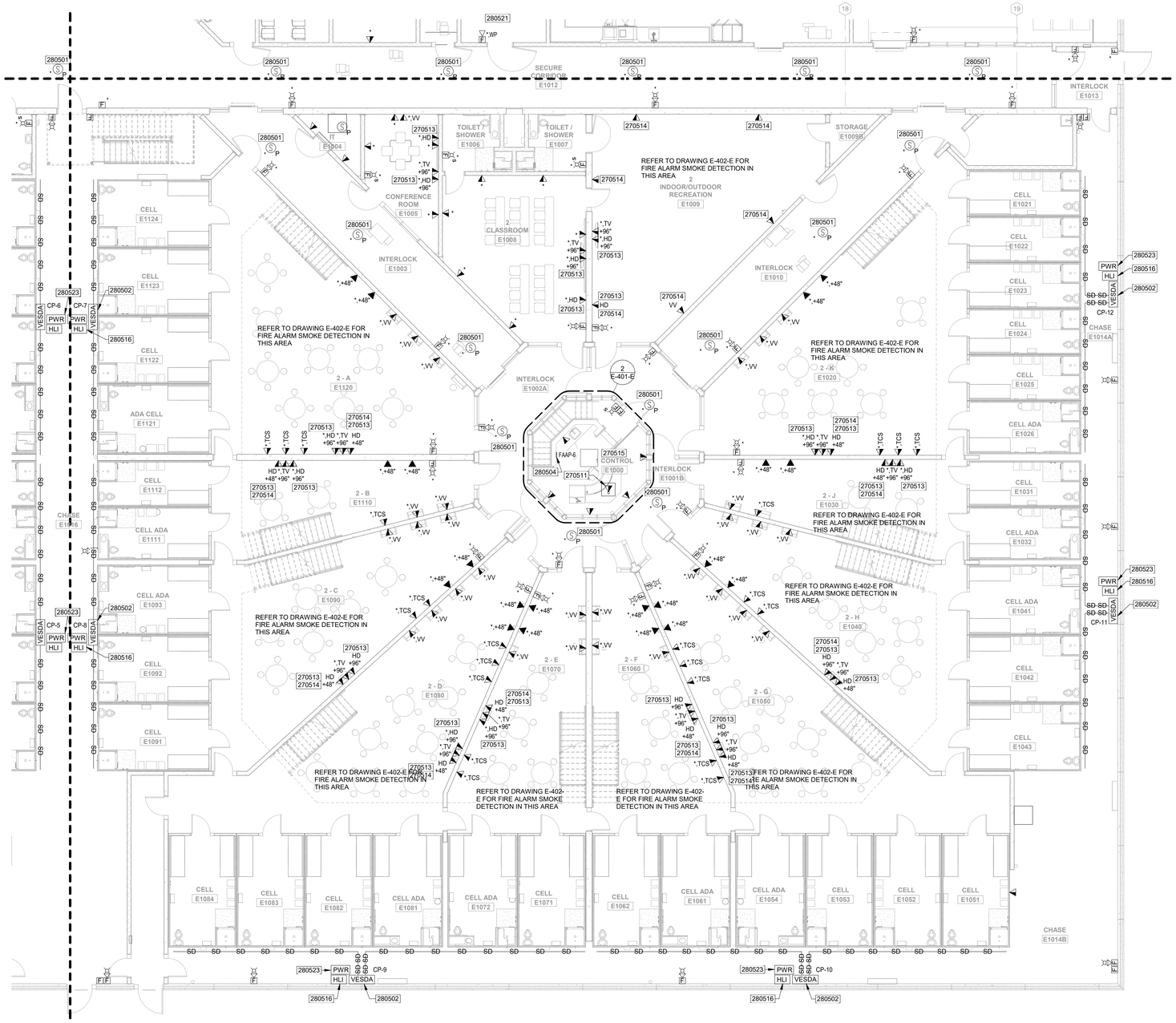


2 LOWER LEVEL SYSTEMS - AREA 'E'
E-401-E SCALE: 1/8" = 1'-0"
NORTH



1 FIRST FLOOR SYSTEMS - AREA 'E'
E-401-E SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO DRAWING E-803, DETAIL #10 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.

B. CONTRACTOR SHALL COORDINATE ALL DEVICE HEIGHTS AND EXACT LOCATIONS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATION DRAWINGS.

C. ALL FIRE ALARM CONDUITS SHALL BE FACTORY PAINTED "RED". ALL PULL/JUNCTION BOX COVERS SHALL BE FACTORY PAINTED RED.

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SYSTEMS KEYNOTES 2705## 2805##

270511 NEW 8-GANG FLOOR BOX, REFER TO KEYNOTE #260524 ON E-201 SERIES DRAWINGS. FURNISH AND INSTALL (1) DATA/COMMUNICATIONS OUTLET WITH SIX (6) CAT.6 JACKS/CABLES. ROUTE (2)-1"C. FROM BOX OVER AND UP WALL TO NEAREST CABLE TRAY FOR CABLING.

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270514 FURNISH AND INSTALL DEVICE IN CUSTOM FLUSH MOUNTED, LOCKABLE WALL CABINET. FOR CABINET DETAIL, SEE SHEET E-803, DETAIL #7.

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280501 REFER TO SMOKE DETECTOR DETENTION COVER DETAIL #9, DRAWING E-801.

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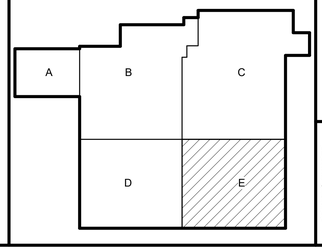
280516 PROVIDE HIGH-LEVEL-INTERFACE (HLI) AT EACH VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET FOR VESDA COMMUNICATION NETWORK. CONNECT TO ADJACENT VESDA CABINETS WITHIN A SMOKE CONTROL ZONE AND HOMERUN BACK TO MAIN FIRE ALARM CONTROL PANEL (FACP-1) IN ELECTRICAL ROOM #C1054. [ALTERNATIVELY, WHERE FACP-1 IS NOT SUPPORTED BY THE VESDA COMMUNICATIONS NETWORK, PROVIDE ONE(1) ZAM (FOR MONITORING SMOKE DETECTION ALARM) FOR EACH SMOKE DETECTION SAMPLING POINT ALARM. PROVIDE ONE (1) ZAM (FOR MONITORING GENERAL ALARMS SUCH AS TROUBLE, CLEAN FILTER, ETC.) EACH VESDA AIR SAMPLING SMOKE DETECTION/ALARM CABINET; REFER TO SPECIFICATION 284621.11 FOR DETAILED REQUIREMENTS. ROUTE ZAM(S) BACK TO MAIN FIRE ALARM PANEL (FACP-1) IN ELECTRICAL ROOM #C1054].

280521 DEVICES IN TRASH ROOM #c1066 SHALL BE EQUIPPED WITH WATERTIGHT COVER SUITABLE FOR PROTECTION FROM WATER HOSE SPRAY.

280523 PROVIDE VESDA POWER SUPPLY CABINET WITH BATTERY CHARGER/BATTERIES (120VAC INPUT POWER, 24VDC OUTPUT POWER). LOCATE ADJACENT TO EACH AIR SAMPLING SMOKE DETECTOR ALARM/MONITORING PANEL. REFER TO DRAWINGS E-201-D AND E-201-E FOR CIRCUITING INFORMATION.

KEY PLAN



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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN L. HITCHCOCK II (ST EREET) PE60019675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW, TKF
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR AND LOWER LEVEL SYSTEMS PLANS - AREA E

DRAWING NUMBER E-401-E
ELECTRICAL

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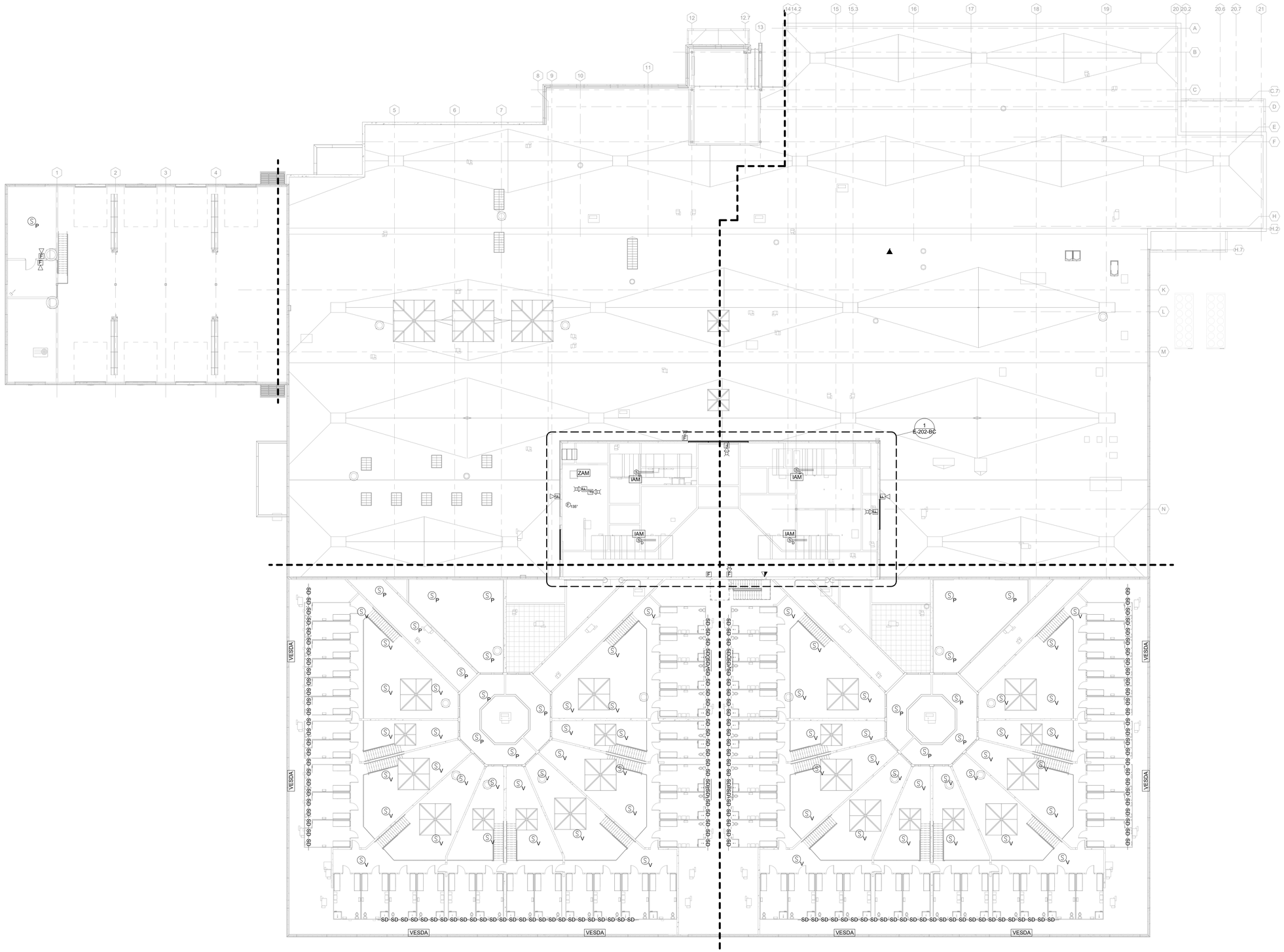

1 E-402 **MEZZANINE SYSTEMS PLAN - OVERALL**
SCALE: 1/16" = 1'-0"
NORTH

THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY - SEE SHEETS E-402-D AND E-402-E FOR DETAILED REQUIREMENTS AND KEYED NOTES FOR POWER.

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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PROFESSIONAL ENGINEER PE60019675 STATE OF INDIANA

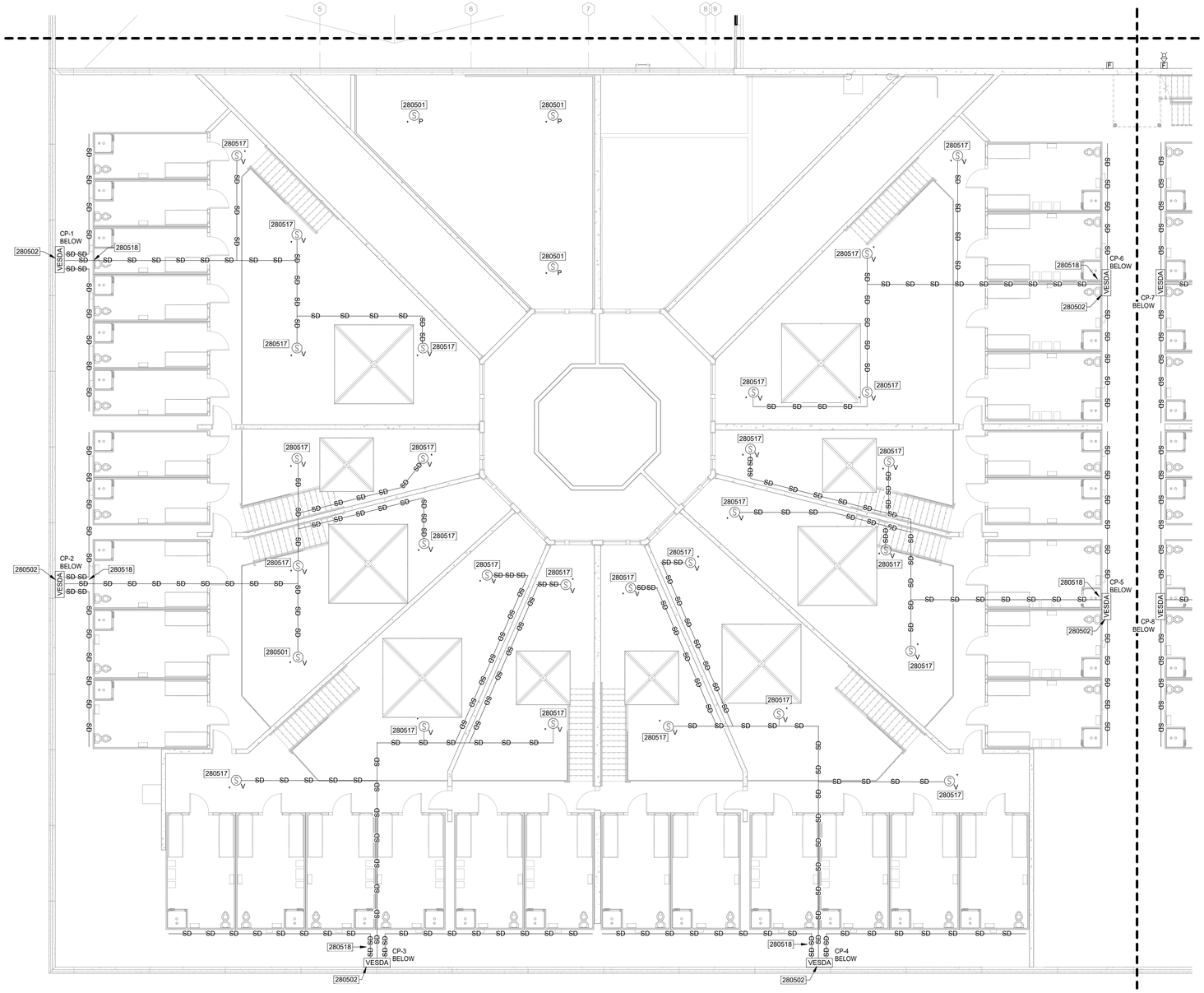
NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW, TKF
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE SYSTEMS PLAN - OVERALL

DRAWING NUMBER E-402
ELECTRICAL



1 MEZZANINE SYSTEMS PLAN - AREA 'D'
E-402-D SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO DRAWING E-803, DETAIL #10 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.

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D. FOR MUTOA BACKBOX AND IN-WALL SLEEVE DETAIL, SEE DETAIL #10 ON DRAWING E-801.

E. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

F. REFER TO SECURITY DRAWINGS, #SE SERIES, AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL SECURITY SYSTEM REQUIREMENTS. PROVIDE BOXES AND RACEWAYS CABLING, AND ASSOCIATED ITEMS AS NECESSARY FOR A COMPLETE AND FUNCTIONAL SECURITY SYSTEM.

G. PROPOSED WAP LOCATIONS AND QUANTITY SHOWN ARE SCHEMATIC ONLY. WAP VENDOR SHALL PROVIDE EXACT LOCATIONS AND QUANTITY OF WIRELESS ACCESS POINTS.

1. FURNISH AND INSTALL SPECIFICATION GRADE, POWER OVER ETHERNET, WIRELESS ACCESS POINT (WAP) ROUTERS FOR COMPLETE COVERAGE OF BUILDING; QUANTITY AND LOCATION TO BE DETERMINED BY WAP VENDOR USING PREDICTIVE ANALYSIS SOFTWARE.

2. ROUTER MANUFACTURERS SHALL BE BY NETGEAR, RUCKUS OR CISCO. PROVIDE WITH NETWORK MANAGEMENT SOFTWARE. WAP VENDOR SHALL PROVIDE A PREDICTIVE ANALYSIS OF WIRELESS PERFORMANCE AND WIRELESS ROUTERS.

3. PROVIDE INDICATING PREDICTIVE TRAFFIC/USAGE AND COVERAGE PATTERNS AS PART OF SHOP DRAWING SUBMITTAL.

4. FURNISH AND INSTALL (2) CAT 6 DATA CABLE WITH 10' OF SLACK FOR FINAL PLACEMENT OF ROUTER HARDWARE.

5. UNITS TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST, ACOUSTICAL CEILING OR STRUCTURE. PROVIDE MOUNTING ACCESSORIES AS REQUIRED.

6. FURNISH AND INSTALL CUSTOM COVER OVER WIRELESS ACCESS POINT (WAP) ROUTERS LOCATED IN INMATE AREAS LIKE TERRAWAVE SOLUTIONS #V10102-C-1131 OR APPROVED EQUAL. COVER SHALL BE SIZED TO MATCH ROUTER AND UTILIZE TORX-HEAD CENTER PIN SCREWS.

H. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE.

I. SEE DRAWING E-607, DETAIL #1 FOR CATV DISTRIBUTION RISER.

J. DRY FIRE SUPPRESSION TO BE INSTALLED IN ELECTRICAL AND IT ROOMS (REFER TO FIRE SUPPRESSION SERIES DRAWINGS). DRY FIRE SUPPRESSION ALARM/DETECTION CABINET(S) SHALL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL. CABINET(S) ARE NOT INDICATED ON THIS DRAWING (FIELD COORDINATE CABINET LOCATIONS PRIOR TO CONSTRUCTION) AND INCLUDE WITH SHOP DRAWING SUBMITTAL. PROVIDE 2 #12, #12G. FROM EACH DRY SUPPRESSION ALARM/DETECTION CABINET BACK TO NEAREST AVAILABLE 20A/1P BREAKER (IN A LEGALLY REQUIRED PANELBOARD).

K. ROUTE VESDA SAMPLING TUBING IN CONDUIT (SIZE AS REQUIRED BY FIRE ALARM VENDOR) ABOVE INACCESSIBLE DETENTION CEILINGS. ALSO REFER TO SPECIFICATION 284621.11 FOR DETAILED REQUIREMENTS FOR VESDA EQUIPMENT/TUBING/DETECTORS, CONTRACTOR QUALIFICATION REQUIREMENTS, AND REQUIREMENTS FOR A WORKMANLIKE INSTALLATION OF ALL ASSOCIATED APPURTENANCES.

L. SMOKE DETECTORS IN MECHANICAL CHASES (LOCATED BEHIND CELLS) ARE NOT REQUIRED FOR SMOKE EVAC SYSTEM FOR CELLS/DAYROOMS. REFER TO MECHANICAL PLANS FOR SMOKE EVAC SYSTEM SEQUENCE OF CONTROL.

SYSTEMS KEYNOTES

2705##
2805##

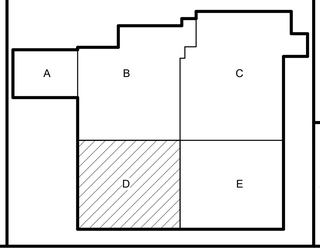
280501 REFER TO SMOKE DETECTOR DETENTION COVER DETAIL #9, DRAWING E-801.

280502 ONE (1) VESDA SMOKE DETECTION SAMPLING POINT/HEAD SHALL BE INSTALLED ON THE RETURN DUCTWORK FOR EACH CELL. ROUTE VESDA TUBING BACK TO VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET. FIELD COORDINATE EXACT CABINET QUANTITIES AND LOCATIONS WITH FIRE ALARM VENDOR PRIOR TO PROCUREMENT/CONSTRUCTION, PROVIDE SHOP DRAWING SUBMITTAL INDICATING EXACT LOCATIONS. VESDA CABINET(S) SHALL BE INSTALLED IN THE CHASE ADJACENT TO THE CELLS(S), WALL MOUNT TOP OF CABINET +6'-0" AFF. REFER TO M-SERIES DRAWINGS FOR HVAC DUCTWORK FOR EACH CELL AND SPECIFICATION SECTION 284621.11 FOR DETAILED REQUIREMENTS. REFER TO FIRE ALARM/DETECTION RISER DIAGRAM ON DRAWING E-804.

280517 REFER TO FLUSH MOUNT, TAMPER-PROOF ASPIRATING SMOKE DETECTOR SAMPLING PORT DETAIL #2, DRAWING E-804.

280518 ROUTE SAMPLING TUBES DOWN TO VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET LOCATED ON LEVEL 1. REFER TO LEVEL 1 SYSTEMS PLANS.

KEY PLAN



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DLZ INDIANA, LLC

MARTIN L. HITCHCOCK
STATE OF INDIANA
PE60018675
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW, TKF
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE SYSTEMS PLAN - AREA D

DRAWING NUMBER E-402-D ELECTRICAL

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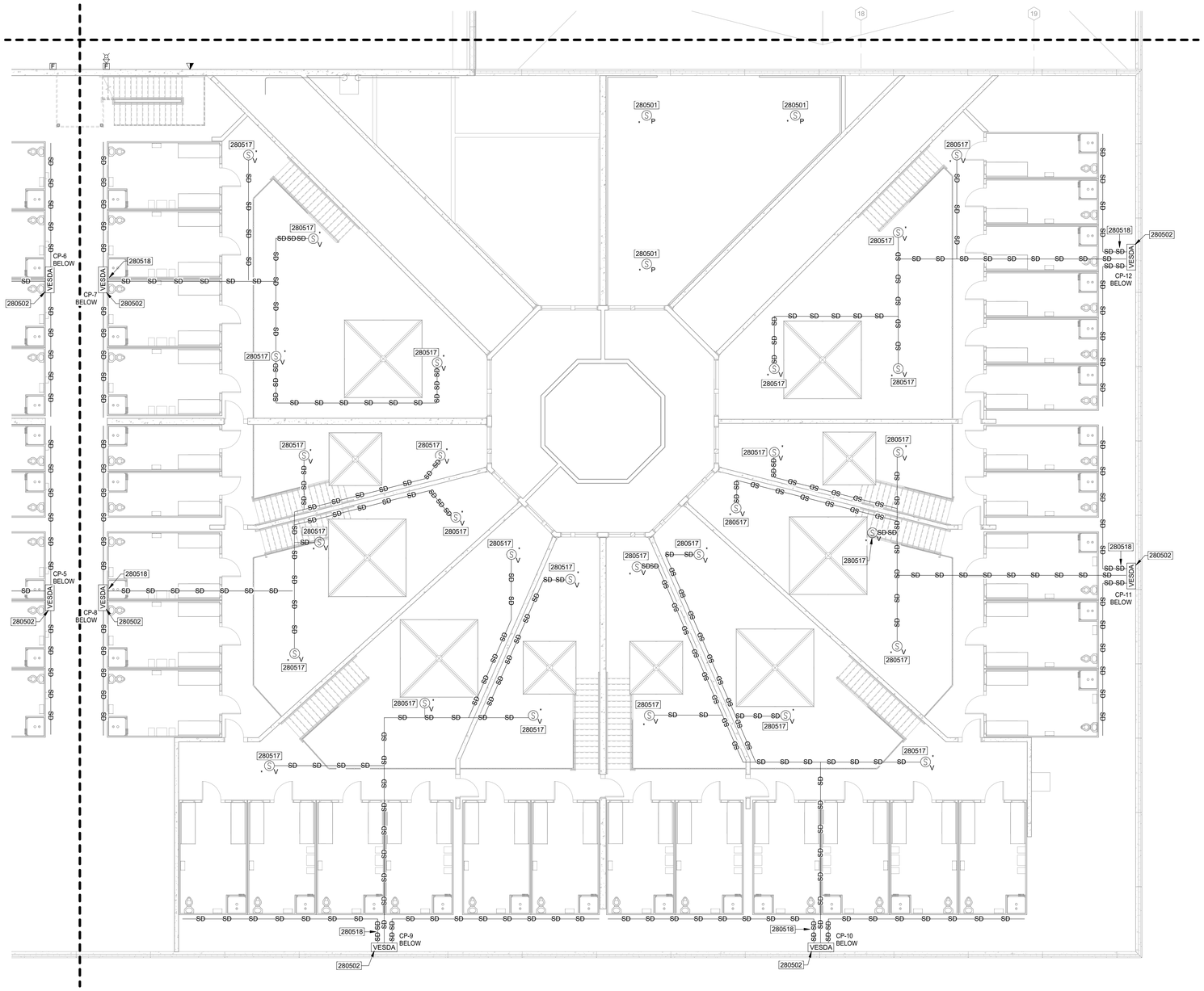

1 **MEZZANINE SYSTEMS PLAN - AREA 'E'**
E-402-E SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO DRAWING E-803, DETAIL #10 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.

B. CONTRACTOR SHALL COORDINATE ALL DEVICE HEIGHTS AND EXACT LOCATIONS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATION DRAWINGS.

C. ALL FIRE ALARM CONDUITS SHALL BE FACTORY PAINTED "RED". ALL PULL/JUNCTION BOX COVERS SHALL BE FACTORY PAINTED RED.

D. FOR MUTOA BACKBOX AND IN-WALL SLEEVE DETAIL, SEE DETAIL #10 ON DRAWING E-801.

E. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.

F. REFER TO SECURITY DRAWINGS, #SE SERIES, AND DIVISION 28 SPECIFICATIONS FOR ADDITIONAL SECURITY SYSTEM REQUIREMENTS. PROVIDE BOXES AND RACEWAYS CABLING, AND ASSOCIATED ITEMS AS NECESSARY FOR A COMPLETE AND FUNCTIONAL SECURITY SYSTEM.

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6. FURNISH AND INSTALL CUSTOM COVER OVER WIRELESS ACCESS POINT (WAP) ROUTERS LOCATED IN INMATE AREAS LIKE TERRAWAVE SOLUTIONS #V10102-C-1131 OR APPROVED EQUAL. COVER SHALL BE SIZED TO MATCH ROUTER AND UTILIZE TORX-HEAD CENTER PIN SCREWS.

H. SEAL ALL PENETRATIONS THRU PRECAST, REFER TO SPECIFICATION 079200 FOR TYPE.

I. SEE DRAWING E-607, DETAIL #1 FOR CATV DISTRIBUTION RISER.

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K. ROUTE VESDA SAMPLING TUBING IN CONDUIT (SIZE AS REQUIRED BY FIRE ALARM VENDOR) ABOVE INACCESSIBLE DETENTION CEILINGS. ALSO REFER TO SPECIFICATION 284621.11 FOR DETAILED REQUIREMENTS FOR VESDA EQUIPMENT/TUBING/DETECTORS, CONTRACTOR QUALIFICATION REQUIREMENTS, AND REQUIREMENTS FOR A WORKMANLIKE INSTALLATION OF ALL ASSOCIATED APPURTENANCES.

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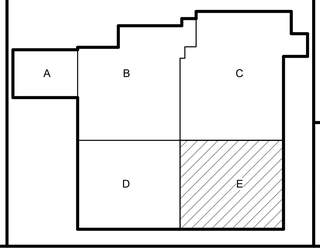
SYSTEMS KEYNOTES

2705##
2805##

280501	REFER TO SMOKE DETECTOR DETENTION COVER DETAIL #9, DRAWING E-801.
280502	ONE (1) VESDA SMOKE DETECTION SAMPLING POINT/HEAD SHALL BE INSTALLED ON THE RETURN DUCTWORK FOR EACH CELL. ROUTE VESDA TUBING BACK TO VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET. FIELD COORDINATE EXACT CABINET QUANTITIES AND LOCATIONS WITH FIRE ALARM VENDOR PRIOR TO PROCUREMENT/CONSTRUCTION. PROVIDE SHOP DRAWING SUBMITTAL INDICATING EXACT LOCATIONS. VESDA CABINET(S) SHALL BE INSTALLED IN THE CHASE ADJACENT TO THE CELLS(S), WALL MOUNT TOP OF CABINET +6'-0" AFF. REFER TO M-SERIES DRAWINGS FOR HVAC DUCTWORK FOR EACH CELL AND SPECIFICATION SECTION 284621.11 FOR DETAILED REQUIREMENTS. REFER TO FIRE ALARM/DETECTION RISER DIAGRAM ON DRAWING E-804.
280517	REFER TO FLUSH MOUNT, TAMPER-PROOF ASPIRATING SMOKE DETECTOR SAMPLING PORT DETAIL #2, DRAWING E-804.
280518	ROUTE SAMPLING TUBES DOWN TO VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET LOCATED ON LEVEL 1. REFER TO LEVEL 1 SYSTEMS PLANS.

KEY PLAN



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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK II
REGISTERED
PE60018675
STATE OF INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW | CHKD: MLH
DESIGNED: RDW, TKF
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE SYSTEMS PLAN - AREA E

DRAWING NUMBER E-402-E
ELECTRICAL

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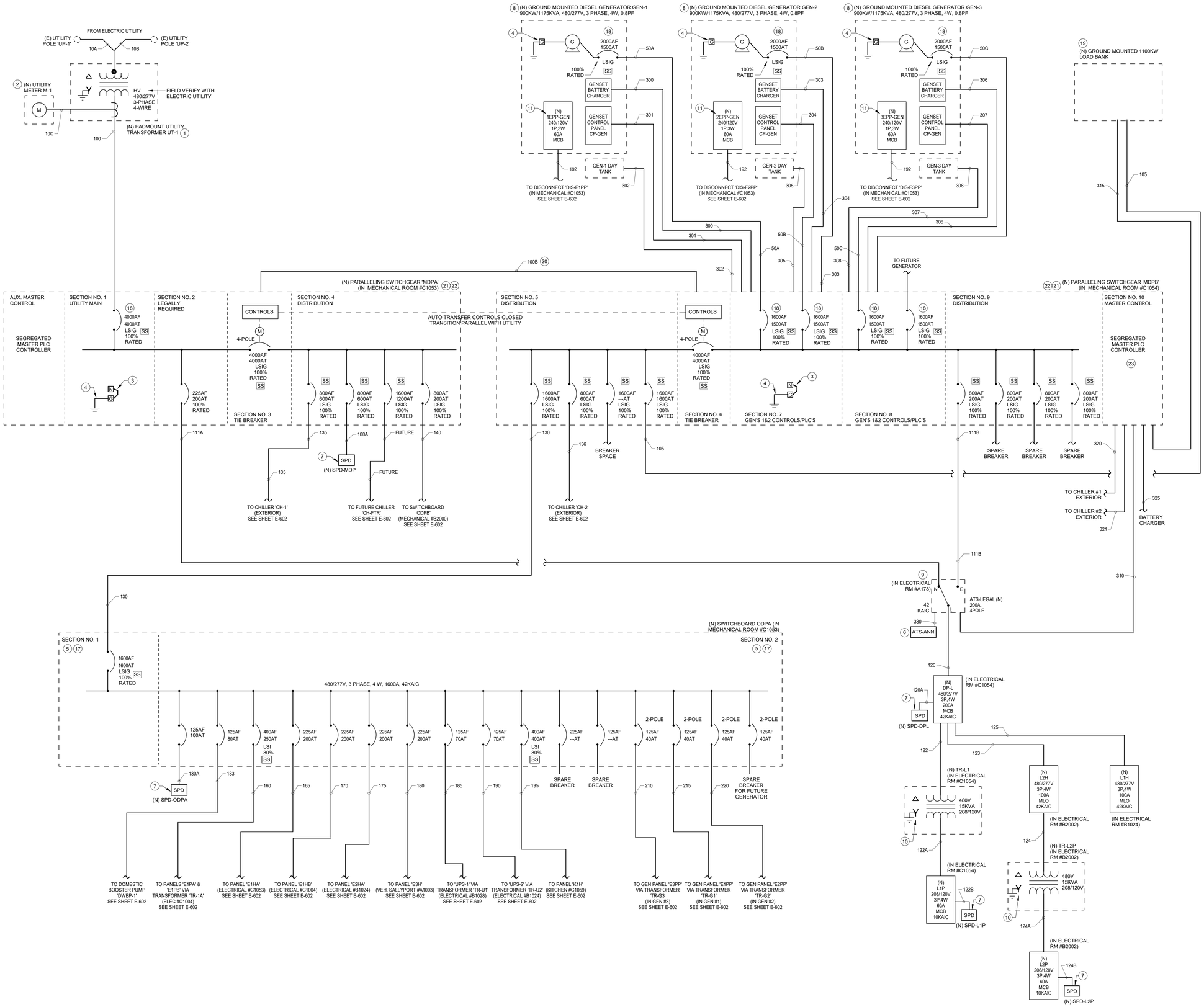

GENERAL NOTES

A. FOR PANELBOARD SCHEDULES, SEE DRAWINGS E-701, E-702, E-703, E-704, E-705, E-706 AND E-707.

B. FOR CONDUIT AND CABLE SCHEDULE, SEE DRAWING E-603.

C. FOR SERVICE GROUNDING ELECTRODE SCHEMATIC, SEE DETAIL # 1 ON DRAWING E-803.

D. REFERENCE MECHANICAL EQUIPMENT CONNECTION SCHEDULE, DRAWING E-604 AND E-605.

E. FOR TRANSFORMER SCHEDULE, SEE SHEET E-607.

F. BREAKERS INDICATED ARE 80% RATED, THERMAL MAGNETIC, MOLDED CASE U.O.N.

CODED NOTES (#)

1. UTILITY TRANSFORMER FURNISHED AND INSTALLED BY DUKE ENERGEY. CONCRETE PAD FURNISHED AND INSTALLED BY CONTRACTOR IN ACCORDANCE WITH THE ELECTRIC UTILITY'S STANDARDS.
2. METER CABINET FURNISHED AND INSTALLED BY CONTRACTOR. FIELD COORDINATE CABINET REQUIREMENTS WITH DUKE ENERGY. METER BASE FURNISHED AND INSTALL BY DUKE ENERGY.
3. EQUIP SWITCGEAR 'MDPA' WITH REMOVABLE NEUTRAL LINK.
4. FOR SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM DETAIL, SEE DRAWING E-803, DETAIL #1. ALSO, REFER TO DETAIL # 8 ON DRAWING E-803 FOR SERVICE ENTRANCE GROUNDING SCHEME.
5. SECTION SHALL BE SWITCHBOARD CONSTRUCTION. REFER TO SPECIFICATION 262413 FOR DETAILED EQUIPMENT REQUIREMENTS.
6. ANNUNCIATOR LOCATED IN MASTER CONTROL ROOM #B1016.
7. REMOTE SURGE PROTECTIVE DEVICE (SPD). REFER TO SPECIFICATION 264313 FOR DETAILED EQUIPMENT REQUIREMENTS. PROVIDE A MAXIMUM LENGTH OF 6' OF CONDUCTORS TO SPD.
8. DIESEL ENGINE GENERATOR WITH NON-WALK-IN LEVEL 1 SOUND ENCLOSURE AND 48 HOUR DOUBLE WALL FUEL TANK. REFER TO SPECIFICATION 263213.14 FOR DETAILED EQUIPMENT REQUIREMENTS.
9. AUTOMATIC TRANSFER SWITCH WITH SWITCHED NEUTRAL AND MAINTENANCE BYPASS. REFER TO SPECIFICATION 263600 FOR DETAILED EQUIPMENT REQUIREMENTS.
10. FOR TRANSFORMER GROUNDING DETAIL, SEE DETAIL #6 ON SHEET E-803. (TYPICAL FOR ALL TRANFORMERS). REFER TO SPECIFICATIONS FOR DETAILED EQUIPMENT REQUIREMENTS.
11. PANEL, 120/240V, 1-PHASE, 3-WIRE FOR GENSET CHARGERS, HEATERS, LIGHTS AND RECEPTACLES. PANEL PROVIDED AND PRE-WIRED BY GENERATOR MANUFACTURER.
12. FURNISH AND INSTALL 240VAC, 2-POLE, 100A HEAVY DUTY FUSED SAFETY DISCONNECT SWITCHES 'DIS-1EPP', 'DIS-2EPP' AND 'DIS-3EPP' IN NEMA 3R ENCLOSURES, FUSE AT 60A. REFER TO DRAWING E-201-C FOR LOCATION.
13. FURNISH AND INSTALL (3) EMPTY 1" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING FOR FUTURE USE. CAP THE END OF THE CONDUIT LOCATED IN CEILING.
14. NEW UPS. REFER TO KEYNOTE #260533, ON DRAWING E-201-B AND SPECIFICATION 263353 FOR DETAILED EQUIPMENT REQUIREMENTS.
15. NEW UPS BATTERY CABINET WITH DISCONNECT. REFER TO KEYNOTE #260534, ON DRAWING E-201-B AND SPECIFICATION 263353 FOR DETAILED EQUIPMENT REQUIREMENTS.
16. FURNISH AND INSTALL 240VAC, 3-POLE, 200A HEAVY DUTY FUSED SAFETY DISCONNECT SWITCH 'DIS-UPS1' IN NEMA 1 ENCLOSURE, FUSE AT 250A. REFER TO DRAWING E-201-B FOR LOCATION. PROVIDE NEUTRAL LUGS SUITABLE FOR TWO (2) NEUTRALS.
17. SWITCHBOARD SECTION TO BE PROVIDED WITH A MINIMUM OF 60" MOUNTING SPACE.
18. BREAKER SHALL BE SERVICE ENTRANCE RATED.
19. LOAD BANK, REFER TO SPECIFICATIONS FOR DETAILED EQUIPMENT REQUIREMENTS.
20. 4000A, 480V, 3-PHASE BUS DUCT, REFER TO SPECIFICATIONS FOR DETAILED EQUIPMENT REQUIREMENTS.
21. PARALLELING SWITCHGEAR. REFER TO SPECIFICATIONS FOR DETAILED EQUIPMENT REQUIREMENTS.
22. SUBMIT DIMENSIONED PLAN SHOWING ELECTRICAL GEAR WITH REQUIRED CLEARANCES AND SERVICE SPACE AROUND EQUIPMENT IN MECHANICAL #C1053 AND ELECTRICAL #C1054 TO ENGINEER FOR APPROVAL PRIOR TO SUBMITTING GEAR SUBMITTALS.
23. FURNISH AND INSTALL (1)-CAT6 CABLE FROM SECTION 10 - MASTER CONTROL CABINET AND NEAREST COMMUNICATIONS OUTLET.

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DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RDW
DESIGNED: RDW
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
CHK'D: MLH
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ONE-LINE DIAGRAM

DRAWING NUMBER E-601
ELECTRICAL

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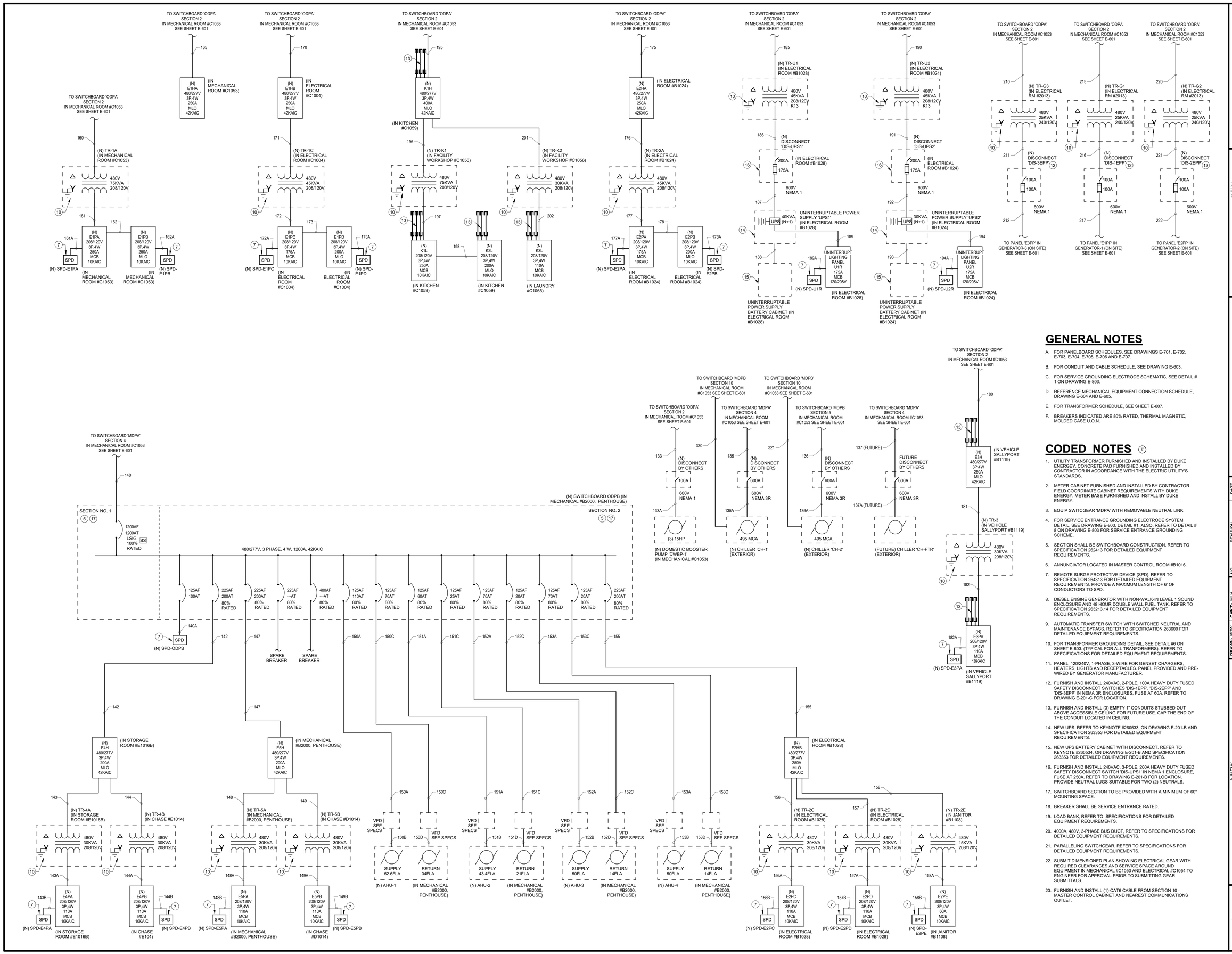

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4. FOR SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM DETAIL, SEE DRAWING E-803, DETAIL #1. ALSO, REFER TO DETAIL # 8 ON DRAWING E-803 FOR SERVICE ENTRANCE GROUNDING SCHEME.
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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN L. HITCHCOCK III REGISTERED PE60019675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHKD: MLH
DESIGNED: RDW
APPRVD: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ONE-LINE DIAGRAM

DRAWING NUMBER E-602
ELECTRICAL

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CONDUIT AND CABLE SCHEDULE (POWER)

RACEWAY	SOURCE	DESTINATION	VOLTAGE	Ø	Wire	OCPD AMPS	POWER CONDUCTORS	CONDUIT QUANTITY AND SIZE	COMMENTS
10A	ELECTRIC UTILITY FROM EXISTING POLE 'UP-1'	NEW ELECTRIC UTILITY PAD MOUNT TRANSFORMER 'UT-1'	HV	3	3		BY UTILITY	4"C.	HIGH VOLTAGE CABLING BY UTILITY. RACEWAY, TRENCHING AND/OR DIRECTIONAL BORING FURNISHED BY ELECTRICAL CONTRACTOR.
10B	ELECTRIC UTILITY FROM EXISTING POLE 'UP-2'	NEW ELECTRIC UTILITY PAD MOUNT TRANSFORMER 'UT-1'	HV	3	3		BY UTILITY	4"C.	HIGH VOLTAGE CABLING BY UTILITY. RACEWAY, TRENCHING AND/OR DIRECTIONAL BORING FURNISHED BY ELECTRICAL CONTRACTOR.
10C	NEW ELECTRIC UTILITY PAD MOUNT TRANSFORMER 'UT-1'	NEW UTILITY METER 'M-1'	480	3	3		BY UTILITY	2"C.	CABLING AND METER BY UTILITY, METER BASE AND RACEWAY BY E.C. COORDINATE REQUIREMENTS WITH UTILITY.
50A	GENSET 'GEN-1'	SWITCHGEAR 'MDPB' SECTION 7	480/277	3	4	1500A	5 SETS; EACH W/ 4#350 KCMIL, 1#1/0 G.	(5) 3"C	
50B	GENSET 'GEN-2'	SWITCHGEAR 'MDPB' SECTION 7	480/277	3	4	1500A	5 SETS; EACH W/ 4#350 KCMIL, 1#1/0 G.	(5) 3"C	
50C	GENSET 'GEN-3'	SWITCHGEAR 'MDPB' SECTION 8	480/277	3	4	1500A	5 SETS; EACH W/ 4#350 KCMIL, 1#1/0 G.	(5) 3"C	
100	NEW ELECTRIC UTILITY PAD MOUNT TRANSFORMER 'UT-2'	SWITCHGEAR 'MDPA'	480/277	3	4	4000A (100% RATED)	10 SETS; EACH W/ 4#500 KCMIL, 1#250 KCMIL G.	(10) 4"C	
100A	SWITCHGEAR 'MDPA' / SECTION 4	SURGE PROTECTIVE DEVICE 'SPD-MDP'	480/277	3	4	100A	4#2, #2G.	1-1/4"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
100B	SWITCHGEAR 'MDPA' / SECTION 3	SWITCHGEAR 'MDPB' SECTION 6	480/277	3	4	4000A	4000A, BUS DUCT	BUS DUCT	
105	SWITCHGEAR 'MDPB' / SECTION 5	LOAD BANK	480/277	3	4	1600A	5 SETS; EACH W/ 4#400 KCMIL, 1#1/0 KCMIL G.	(5) 3-1/2"C	
111A	SWITCHGEAR 'MDPA' / SECTION 2	AUTOMATIC TRANSFER SWITCH 'ATS-LEGAL'	480/277	3	4	200A	4#3/0, #6G.	2"C.	
111B	SWITCHGEAR 'MDPB' / SECTION 9	AUTOMATIC TRANSFER SWITCH 'ATS-LEGAL'	480/277	3	4	200A	4#3/0, #6G.	2"C.	
120	AUTOMATIC TRANSFER SWITCH 'ATS-LEGAL'	DISTRIBUTION PANEL 'DP-L'	480/277	3	4	200A	4#3/0, #6G.	2"C.	
120A	DISTRIBUTION PANEL 'DP-L'	SURGE PROTECTIVE DEVICE 'SPD-DPL'	480/277	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
122	DISTRIBUTION PANEL 'DP-L'	TRANSFORMER 'TR-L1'	480	3	3	30A	3#10, #12G.	3/4"C.	
122A	TRANSFORMER 'TR-L1'	LIGHTING PANEL 'L1P'	120/208	3	4	60A	4#6, #8G.	1"C.	
122B	LIGHTING PANEL 'L1P'	SURGE PROTECTIVE DEVICE 'SPD-L1P'	120/208	3	4	60A	4#6, #8G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
123	DISTRIBUTION PANEL 'DP-L'	LIGHTING PANEL 'L2H'	480	3	4	100A	3#3, #6G.	1-1/4"C.	
124	LIGHTING PANEL 'L2H'	TRANSFORMER 'TR-L2'	480	3	3	30A	3#10, #12G.	3/4"C.	
124A	TRANSFORMER 'TR-L1'	LIGHTING PANEL 'L1P'	120/208	3	4	60A	4#6, #8G.	1"C.	
124B	LIGHTING PANEL 'L1P'	SURGE PROTECTIVE DEVICE 'SPD-L1P'	120/208	3	4	60A	4#6, #8G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
125	DISTRIBUTION PANEL 'DP-L'	LIGHTING PANEL 'L1H'	480	3	4	100A	3#3, #6G.	1-1/4"C.	
130	SWITCHGEAR 'MDPB' / SECTION 5	SWITCHBOARD 'ODPA'	480/277	3	4	1600A	5 SETS; EACH W/ 4#400 KCMIL, 1#1/0 KCMIL G.	(5) 3-1/2"C	
130A	SWITCHBOARD 'ODPA'	SURGE PROTECTIVE DEVICE 'SPD-ODPA'	480/277	3	4	100A	4#2, #2G.	1-1/4"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
133	SWITCHBOARD 'ODPA'	DOMESTIC BOOSTER PUMP 'DWBP-1'	480/277	3	3	80A	3#3, #6G.	1-1/4"C.	
135	SWITCHGEAR 'MDPA' / SECTION 4	CHILLER 'CH-1' (EXTERIOR)	480/277	3	3	600A	2 SETS; EACH W/ 3#250 KCMIL, 1#1 G.	(2) 2-1/2"C.	
136	SWITCHGEAR 'MDPB' / SECTION 5	CHILLER 'CH-2' (EXTERIOR)	480/277	3	3	600A	2 SETS; EACH W/ 3#250 KCMIL, 1#1 G.	(2) 2-1/2"C.	
137	SWITCHGEAR 'MDPA' / SECTION 4	FUTURE CHILLER 'CH-3' (EXTERIOR)	480/277	3	3	600A	"FUTURE"	"FUTURE"	
140	SWITCHGEAR 'MDPA' / SECTION 4	SWITCHBOARD 'ODPB'	480/277	3	4	1200A	4 SETS; EACH W/ 4#350 KCMIL, 1#1/0 G.	(4) 3"C	
140A	SWITCHBOARD 'ODPB'	SURGE PROTECTIVE DEVICE 'SPD-ODPB'	480/277	3	4	100A	4#2, #2G.	1-1/4"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
142	SWITCHBOARD 'ODPB'	LIGHTING PANEL 'E4H'	480/277	3	4	200A	4#3/0, #6G.	2"C.	
143	LIGHTING PANEL 'E4H'	TRANSFORMER 'TR-4A'	480	3	3	50A	3#6, #8G.	1"C.	
143A	TRANSFORMER 'TR-4A'	LIGHTING PANEL 'E4PA'	120/208	3	4	110A	4#2, #6G.	1-1/4"C.	
143B	LIGHTING PANEL 'E4PA'	SURGE PROTECTIVE DEVICE 'SPD-E4PA'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
144	LIGHTING PANEL 'E4H'	TRANSFORMER 'TR-4B'	480	3	3	50A	3#6, #8G.	1"C.	
144A	TRANSFORMER 'TR-4B'	LIGHTING PANEL 'E4PB'	120/208	3	4	110A	4#2, #6G.	1-1/4"C.	
144B	LIGHTING PANEL 'E4PB'	SURGE PROTECTIVE DEVICE 'SPD-E4PB'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
147	SWITCHBOARD 'ODPB'	LIGHTING PANEL 'E5H'	480/277	3	4	200A	4#3/0, #6G.	2"C.	
148	LIGHTING PANEL 'E5H'	TRANSFORMER 'TR-5A'	480	3	3	50A	3#6, #8G.	1"C.	
148A	TRANSFORMER 'TR-5A'	LIGHTING PANEL 'E5PA'	120/208	3	4	110A	4#2, #6G.	1-1/4"C.	
148B	LIGHTING PANEL 'E5PA'	SURGE PROTECTIVE DEVICE 'SPD-E5PA'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
149	LIGHTING PANEL 'E5H'	TRANSFORMER 'TR-5B'	480	3	3	50A	3#6, #8G.	1"C.	
149A	TRANSFORMER 'TR-5B'	LIGHTING PANEL 'E5PB'	120/208	3	4	110A	4#2, #6G.	1-1/4"C.	
149B	LIGHTING PANEL 'E5PB'	SURGE PROTECTIVE DEVICE 'SPD-E5PB'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
150A	SWITCHBOARD 'ODPB'	VFD - AIR HANDLER 'AHU-1' (SUPPLY FAN)	480	3	3	110A	3#2, #6G.	1-1/4"C.	
150B	VFD - AIR HANDLER 'AHU-1' (SUPPLY FAN)	AHU-1 SUPPLY FAN	480	3	3	110A	3#2, #6G.	1-1/4"C.	SPECIAL VFD CABLE, REFER TO SPECIFICATIONS
150C	SWITCHBOARD 'ODPB'	VFD - AIR HANDLER 'AHU-1' (RETURN FAN)	480	3	3	70A	3#4, #8G.	1-1/4"C.	
150D	VFD - AIR HANDLER 'AHU-1' (RETURN FAN)	AHU-1 RETURN FAN	480	3	3	70A	3#4, #8G.	1-1/4"C.	SPECIAL VFD CABLE, REFER TO SPECIFICATIONS
151A	SWITCHBOARD 'ODPB'	VFD - AIR HANDLER 'AHU-2' (SUPPLY FAN)	480	3	3	60A	3#6, #8G.	1"C.	
151B	VFD - AIR HANDLER 'AHU-2' (SUPPLY FAN)	AHU-2 SUPPLY FAN	480	3	3	60A	3#6, #8G.	1"C.	SPECIAL VFD CABLE, REFER TO SPECIFICATIONS
151C	SWITCHBOARD 'ODPB'	VFD - AIR HANDLER 'AHU-2' (RETURN FAN)	480	3	3	25A	3#10, #12G.	3/4"C.	
151D	VFD - AIR HANDLER 'AHU-2' (RETURN FAN)	AHU-2 RETURN FAN	480	3	3	25A	3#10, #12G.	3/4"C.	SPECIAL VFD CABLE, REFER TO SPECIFICATIONS
152A	SWITCHBOARD 'ODPB'	VFD - AIR HANDLER 'AHU-3' (SUPPLY FAN)	480	3	3	70A	3#4, #8G.	1"C.	
152B	VFD - AIR HANDLER 'AHU-3' (SUPPLY FAN)	AHU-3 SUPPLY FAN	480	3	3	70A	3#4, #8G.	1"C.	SPECIAL VFD CABLE, REFER TO SPECIFICATIONS
152C	SWITCHBOARD 'ODPB'	VFD - AIR HANDLER 'AHU-3' (RETURN FAN)	480	3	3	20A	3#12, #12G.	3/4"C.	
152D	VFD - AIR HANDLER 'AHU-3' (RETURN FAN)	AHU-3 RETURN FAN	480	3	3	20A	3#12, #12G.	3/4"C.	SPECIAL VFD CABLE, REFER TO SPECIFICATIONS
153A	SWITCHBOARD 'ODPB'	VFD - AIR HANDLER 'AHU-4' (SUPPLY FAN)	480	3	3	70A	3#4, #8G.	1"C.	
153B	VFD - AIR HANDLER 'AHU-4' (SUPPLY FAN)	AHU-4 SUPPLY FAN	480	3	3	70A	3#4, #8G.	1"C.	SPECIAL VFD CABLE, REFER TO SPECIFICATIONS
153C	SWITCHBOARD 'ODPB'	VFD - AIR HANDLER 'AHU-4' (RETURN FAN)	480	3	3	20A	3#12, #12G.	3/4"C.	
153D	VFD - AIR HANDLER 'AHU-4' (RETURN FAN)	AHU-4 RETURN FAN	480	3	3	20A	3#12, #12G.	3/4"C.	SPECIAL VFD CABLE, REFER TO SPECIFICATIONS

CONDUIT AND CABLE SCHEDULE (POWER)

RACEWAY	SOURCE	DESTINATION	VOLTAGE	Ø	Wire	OCPD AMPS	POWER CONDUCTORS	CONDUIT QUANTITY AND SIZE	COMMENTS
155	SWITCHBOARD 'ODPB'	LIGHTING PANEL 'E2HB'	480/277	3	4	200A	4#3/0, #6G.	2"C.	
156	LIGHTING PANEL 'E2HB'	TRANSFORMER 'TR-2C'	480	3	3	50A	3#6, #8G.	1"C.	
156A	TRANSFORMER 'TR-2C'	LIGHTING PANEL 'E2PC'	120/208	3	4	110A	4#2, #6G.	1-1/4"C.	
156B	LIGHTING PANEL 'E2PC'	SURGE PROTECTIVE DEVICE 'SPD-E2PC'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
157	LIGHTING PANEL 'E2HB'	TRANSFORMER 'TR-2D'	480	3	3	50A	3#6, #8G.	1"C.	
157A	TRANSFORMER 'TR-2D'	LIGHTING PANEL 'E2PD'	120/208	3	4	110A	4#2, #6G.	1-1/4"C.	
157B	LIGHTING PANEL 'E2PD'	SURGE PROTECTIVE DEVICE 'SPD-E2PD'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
158	LIGHTING PANEL 'E2HB'	TRANSFORMER 'TR-2E'	480	3	3	30A	3#10, #12G.	3/4"C.	
158A	TRANSFORMER 'TR-2E'	LIGHTING PANEL 'E2PE'	120/208	3	4	60A	4#6, #6G.	1"C.	
158B	LIGHTING PANEL 'E2PE'	SURGE PROTECTIVE DEVICE 'SPD-E2PE'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
160	SWITCHBOARD 'ODPA'	TRANSFORMER 'TR-1A'	480/277	3	3	110A	4#2, #6G.	1-1/4"C	
161	TRANSFORMER 'TR-2C'	LIGHTING PANEL 'E1PA'	120/208	3	4	250A	4#250 KCMIL, #4G.	2-1/2"C	
161A	LIGHTING PANEL 'E1PA'	SURGE PROTECTIVE DEVICE 'SPD-E1PA'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
162	LIGHTING PANEL 'E1PA'	LIGHTING PANEL 'E1PB'	120/208	3	4	250A	4#250 KCMIL, #4G.	2-1/2"C	
162A	LIGHTING PANEL 'E1PB'	SURGE PROTECTIVE DEVICE 'SPD-E1PB'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
165	SWITCHBOARD 'ODPB'	LIGHTING PANEL 'E1HA'	480/277	3	4	200A	4#3/0, #6G.	2"C.	
170	SWITCHBOARD 'ODPB'	LIGHTING PANEL 'E1HB'	480/277	3	4	200A	4#3/0, #6G.	2"C.	
171	LIGHTING PANEL 'E1HB'	TRANSFORMER 'TR-1C'	480/277	3	3	70A	3#4, #8G.	1"C	
172	TRANSFORMER 'TR-1C'	LIGHTING PANEL 'E1PC'	120/208	3	4	175A	4#2/0, #6G.	2"C	
172A	LIGHTING PANEL 'E1PC'	SURGE PROTECTIVE DEVICE 'SPD-E1PC'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
173	LIGHTING PANEL 'E1PC'	LIGHTING PANEL 'E1PD'	120/208	3	4	175A	4#2/0, #6G.	2"C	
173A	LIGHTING PANEL 'E1PD'	SURGE PROTECTIVE DEVICE 'SPD-E1PD'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
175	SWITCHBOARD 'ODPB'	LIGHTING PANEL 'E2HA'	480/277	3	4	200A	4#3/0, #6G.	2"C.	
176	LIGHTING PANEL 'E2HA'	TRANSFORMER 'TR-2A'	480/277	3	3	70A	3#4, #8G.	1"C	
177	TRANSFORMER 'TR-2A'	LIGHTING PANEL 'E2PA'	120/208	3	4	175A	4#2/0, #6G.	2"C	
177A	LIGHTING PANEL 'E2PA'	SURGE PROTECTIVE DEVICE 'SPD-E2PA'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
178	LIGHTING PANEL 'E2PA'	LIGHTING PANEL 'E2PB'	120/208	3	4	175A	4#2/0, #6G.	2"C	
178A	LIGHTING PANEL 'E2PB'	SURGE PROTECTIVE DEVICE 'SPD-E2PB'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
180	SWITCHBOARD 'ODPB'	LIGHTING PANEL 'E3H'	480/277	3	4	200A	4#3/0, #6G.	2"C.	
181	LIGHTING PANEL 'E3H'	TRANSFORMER 'TR-3'	480	3	3	50A	3#6, #8G.	1"C.	
182	TRANSFORMER 'TR-3'	LIGHTING PANEL 'E3PA'	120/208	3	4	110A	4#2, #6G.	1-1/4"C.	
182A	LIGHTING PANEL 'E3PA'	SURGE PROTECTIVE DEVICE 'SPD-E3PA'	120/208	3	4	60A	4#6, #6G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
185	SWITCHBOARD 'ODPA'	TRANSFORMER 'TR-U1'	480	3	3	70A	3#4, #8G.	1"C.	
186	TRANSFORMER 'TR-U1'	DISCONNECT 'DIS-UPS1'	120/208	3	4	175A	3#2/0, 1#500 KCMIL N, #6G.	3"C.	
187	DISCONNECT 'DIS-UPS1'	UNINTERRUPTIBLE POWER SUPPLY 'UPS-1'	120/208	3	4	175A	3#2/0, 1#500 KCMIL N, #6G.	3"C.	
188	UNINTERRUPTIBLE POWER SUPPLY 'UPS-1'	UNINTERRUPTIBLE POWER SUPPLY BATTERY CABINET	DC	-	-	-	-	-	WIRING PER MANUFACTURERS RECOMMENDATION
189	UNINTERRUPTIBLE POWER SUPPLY 'UPS-1'	LIGHTING PANEL 'U1R'	120/208	3	4	175A	3#2/0, 1#500 KCMIL N, #6G.	3"C.	
189A	LIGHTING PANEL 'U1R'	SURGE PROTECTIVE DEVICE 'SPD-U1R'	120/208	3	4	60A	4#6, #8G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
190	SWITCHBOARD 'ODPA'	TRANSFORMER 'TR-U2'	480	3	3	70A	3#4, #8G.	1"C.	
191	TRANSFORMER 'TR-U2'	DISCONNECT 'DIS-UPS2'	120/208	3	4	175A	3#2/0, 1#500 KCMIL N, #6G.	3"C.	
192	DISCONNECT 'DIS-UPS2'	UNINTERRUPTIBLE POWER SUPPLY 'UPS-2'	120/208	3	4	175A	3#2/0, 1#500 KCMIL N, #6G.	3"C.	
193	UNINTERRUPTIBLE POWER SUPPLY 'UPS-2'	UNINTERRUPTIBLE POWER SUPPLY BATTERY CABINET	DC	-	-	-	-	-	WIRING PER MANUFACTURERS RECOMMENDATION
194	UNINTERRUPTIBLE POWER SUPPLY 'UPS-2'	LIGHTING PANEL 'U2R'	120/208	3	4	175A	3#2/0, 1#500 KCMIL N, #6G.	3"C.	
194A	LIGHTING PANEL 'U2R'	SURGE PROTECTIVE DEVICE 'SPD-U2R'	120/208	3	4	60A	4#6, #8G.	1"C.	USE SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS, CABLING LENGTH SHALL NOT EXCEED 6'-0".
195	SWITCHBOARD 'ODPA'	LIGHTING PANEL 'K1H'	480/277	3	4	400A	4#500 KCMIL, #1/0G.	3-1/2"C.	
196	LIGHTING PANEL 'K1H'	TRANSFORMER 'TR-K1'	480	3	3	110A	3#2, #6G.	1-1/4"C.	
197	TRANSFORMER 'TR-K1'	LIGHTING PANEL 'K1L'	120/208	3	4	250A	4#250 KCMIL, #4G.	2-1/2"C.	
198	LIGHTING PANEL 'K1L'	LIGHTING PANEL 'K2L'	120/208	3	4	200A	4#3/0, #6G.	2"C.	
201	LIGHTING PANEL 'K1H'	TRANSFORMER 'TR-K2'	480	3	3	50A	3#6, #8G.	1"C.	
202	TRANSFORMER 'TR-K2'	LIGHTING PANEL 'K3L'	120/208	3	4	110A	4#2, #6G.	1-1/4"C.	
210	SWITCHBOARD 'ODPA'	TRANSFORMER 'TR-G3'	480	1	3	70A	2#4, #6G.	1"C.	
211	TRANSFORMER 'TR-G3'	DISCONNECT 'DIS-3EPP'	120/240	1	3	100A	3#3, #6G.	1-1/4"C.	
212	DISCONNECT 'DIS-3EPP'	LIGHTING PANEL 'E3PP' SUPPLIED WITH GENSET #3	120/240	1	3	100A	3#3, #6G.	1-1/4"C.	
215	SWITCHBOARD 'ODPA'	TRANSFORMER 'TR-G1'	480	1	3	70A	2#4, #6G.	1"C.	
216	TRANSFORMER 'TR-G1'	DISCONNECT 'DIS-1EPP'	120/240	1	3	100A	3#3, #6G.	1-1/4"C.	
217	DISCONNECT 'DIS-1EPP'	LIGHTING PANEL 'E1PP' SUPPLIED WITH GENSET #1	120/240	1	3	100A	3#3, #6G.	1-1/4"C.	
220	SWITCHBOARD 'ODPA'	TRANSFORMER 'TR-G2'	480	1	3	70A	2#4, #6G.	1"C.	
221	TRANSFORMER 'TR-G2'	DISCONNECT 'DIS-2EPP'	120/240	1	3	100A	3#3, #6G.	1-1/4"C.	
222	DISCONNECT 'DIS-2EPP'	LIGHTING PANEL 'E2PP' SUPPLIED WITH GENSET #2	120/240	1	3	100A	3#3, #6G.	1-1/4"C.	

SCHEDULE NOTES:

1. ELECTRIC UTILITY = DUKE ENERGY

CONDUIT AND CABLE SCHEDULE (CONTROLS)

RACEWAY	SOURCE	DESTINATION	CONDUIT QUANTITY AND SIZE	COMMENTS
300	GENSET 'GEN-1' CONTROL PANEL	SWITCHGEAR 'MDPB' / SECTION 7 GEN 1 - CONTROLS/PLC	(1)-3/4"C. & (1)-1"C.	(2) #8 AWG - SWGR. CONTROL POWER (2) BELDEN #8760 - SPEED BIAS & VOLTAGE BIAS (16) #14 AWG - PRE-ALARM & SHUT-DOWN SIGNAL CONTROLS (2) #14 AWG - ENGINE START CONTACTS (2) #14 AWG - E-STOP CONTROL CONTACTS (4) #14 AWG - SPARE CONDUCTORS
301	GENSET 'GEN-1' BATTERY CHARG.	SWITCHGEAR 'MDPB' / SECTION 7 GEN 1 - CONTROLS/PLC	3/4"C.	(4) #14 AWG - BATTERY CHARGER FAILURE & SPARE
302	GENSET 'GEN-1' DAY TANK	SWITCHGEAR 'MDPB' / SECTION 7 GEN 1 - CONTROLS/PLC	3/4"C.	(8) #14 AWG - HIGH FUEL, LOW FUEL, RUPTURE & SPARE
303	GENSET 'GEN-2' CONTROL PANEL	SWITCHGEAR 'MDPB' / SECTION 7 GEN 2 - CONTROLS/PLC	(1)-3/4"C. & (1)-1"C.	(2) #8 AWG - SWGR. CONTROL POWER (2) BELDEN #8760 - SPEED BIAS & VOLTAGE BIAS (16) #14 AWG - PRE-ALARM & SHUT-DOWN SIGNAL CONTROLS (2) #14 AWG - ENGINE START CONTACTS (2) #14 AWG - E-STOP CONTROL CONTACTS (4) #14 AWG - SPARE CONDUCTORS
304	GENSET 'GEN-2' BATTERY CHARG.	SWITCHGEAR 'MDPB' / SECTION 7 GEN 2 - CONTROLS/PLC	3/4"C.	(4) #14 AWG - BATTERY CHARGER FAILURE & SPARE
305	GENSET 'GEN-2' DAY TANK	SWITCHGEAR 'MDPB' / SECTION 7 GEN 2 - CONTROLS/PLC	3/4"C.	(8) #14 AWG - HIGH FUEL, LOW FUEL, RUPTURE & SPARE
306	GENSET 'GEN-3' CONTROL PANEL	SWITCHGEAR 'MDPB' / SECTION 8 GEN 3 - CONTROLS/PLC	(1)-3/4"C. & (1)-1"C.	(2) #8 AWG - SWGR. CONTROL POWER (2) BELDEN #8760 - SPEED BIAS & VOLTAGE BIAS (16) #14 AWG - PRE-ALARM & SHUT-DOWN SIGNAL CONTROLS (2) #14 AWG - ENGINE START CONTACTS (2) #14 AWG - E-STOP CONTROL CONTACTS (4) #14 AWG - SPARE CONDUCTORS
307	GENSET 'GEN-3' BATTERY CHARG.	SWITCHGEAR 'MDPB' / SECTION 8 GEN 3 - CONTROLS/PLC	3/4"C.	(4) #14 AWG - BATTERY CHARGER FAILURE & SPARE
308	GENSET 'GEN-3' DAY TANK	SWITCHGEAR 'MDPB' / SECTION 8 GEN 3 - CONTROLS/PLC	3/4"C.	(8) #14 AWG - HIGH FUEL, LOW FUEL, RUPTURE & SPARE
310	SWITCHGEAR 'MDPB' / SECTION 10	AUTOMATIC TRANSFER SWITCH 'ATS-LEGAL'	(1)-1"C.	(4) #14 AWG - EMERGENCY START & LOAD SHED (2) #14 AWG - SPARE (2) #14 AWG - SPARE (1) CAT6 MULTI-STRAND COMM CABLE WITH RJ-45 CONNECTORS
315	SWITCHGEAR 'MDPB' / SECTION 10	GROUND MOUNTED LOAD BANK	1"C.	(6) #12 AWG - LOAD DUMP CIRCUIT & STRIP HEATER
320	SWITCHGEAR 'MDPB' / SECTION 10	CHILLER #1 (EXTERIOR)	3/4"C.	(4) #12 AWG - CHILLER SHUTDOWN / RESTART PERMISSIVE
321	SWITCHGEAR 'MDPB' / SECTION 10	CHILLER #2 (EXTERIOR)	3/4"C.	(4) #12 AWG - CHILLER SHUTDOWN / RESTART PERMISSIVE
325	SWITCHGEAR 'MDPB' / SECTION 10	24VDC BATTERY CHARGER	1"C.	(2) #8 AWG - 24VDC CONTROL POWER (2) #14 AWG - BATTERY CHARGER ALARM
330	AUTOMATIC TRANSFER SWITCH 'ATS-LEGAL'	REMOTE ANNUNCIATOR 'ATS-ANN'	1"C.	CONTROL WIRING, FIELD COORDINATE WITH GENERATOR SUPPLIER TO DETERMINE CABLE TYPE/SIZE/QUANTITY REQUIRED

SCHEDULE CONTROLS NOTES:

1. COORDINATE CONTROL WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIERS

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RDW | CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

CONDUIT AND CABLE SCHEDULE

DRAWING NUMBER
E-603
ELECTRICAL

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GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHERS DIVISIONS/TRADES AS NECESSARY TO FIELD VERIFY ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT (OR OTHER DIVISIONS/TRADES EQUIPMENT) SUBMITTED FOR ENGINEER REVIEW/APPROVAL.

B. EQUIPMENT SUBMITTALS OR SUBSTITUES WITH DIFFERENT ELECTRICAL CONNECTION REQUIREMENTS SHALL BE THE RESPONSIBILITY OF ALL CONTRACTORS (ELECTRICAL AND/OR MECHANICAL AND/OR OTHER DIVISIONS/TRADES) TO FIELD COORDINATE PRIOR TO SUBMITTING FOR ENGINEER REVIEW/APPROVAL; PROVIDE ALL NECESSARY MODIFICATIONS NECESSARY FOR ELECTRICAL CONNECTIONS (I.E. BREAKERS, CABLE, CONDUIT, ETC.) AS NECESSARY FOR A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

C. ENGINEER SHALL NOT BE REPSONISBLE FOR RE-ENGINEERING FOR THESE AFOREMENTIONED ELECTRICAL MODIFICATIONS; WHERE REQUIRED, CONTRACTOR SHALL REIMBURSE ENGINEER FOR ANY AND ALL ENGINEERING MODIFICATIONS NECESSARY PRIOR TO REVIEW/APPROVAL OF SUBMITTALS BY ENGINEER.

D. ELECTRICAL CONTRACTOR SHALL SUBMIT PANELBOARD/SWITCHBOARD SHOP DRAWINGS FOR ENGINEER REVIEW/APPROVAL ONLY AFTER EQUIPMENT FOR ALL DIVISIONS/TRADES HAVE BEEN REVIEWED/APPROVED. SHOP DRAWING SUBMITTALS SHALL REFLECT ALL NECESSARY MODIFICATIONS (I.E. BREAKERS) AS AFOREMENTIONED.

MECHANICAL EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE

DESCRIPTION	ELECTRICAL DATA					CIRCUIT (*) DESIGNATION	O.C.P.		CONDUCTORS	CONDUIT	DISCONNECT BY	STARTER BY	DRAWING LOCATION	REMARK / DISC OR STARTER TYPE
	VOLTS	ø	KW	FLA	HP		AMPS	POLE						
AIR HANDLER 'AHU-1' (CKT1 - SUPPLY)	480	3	---	66.3	---	ODPB-9	125	3	3#1, 1#6 GND.	1-1/4"C.	E.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .7
AIR HANDLER 'AHU-1' (CKT2 - RETURN)	480	3	---	34	---	ODPB-10	70	3	3#4, 1#8 GND.	1-1/4"C.	E.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .6
AIR HANDLER 'AHU-1' (CKT3 - RECEPT)	120	1	---	8.0	---	E5PA-8	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #B2000, DRAWING E-204	.1
AIR HANDLER 'AHU-2' (CKT1 - LIGHTS)	120	1	---	5.22	---	E5PA-9	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #B2000, DRAWING E-204	.1
AIR HANDLER 'AHU-2' (CKT2 - SUPPLY)	480	3	---	74	---	ODPB-5	100	3	3#3, 1#6 GND.	1"C.	E.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .5
AIR HANDLER 'AHU-2' (CKT3 - RETURN)	480	3	---	23.2	---	ODPB-6	30	3	3#10, 1#12 GND.	3/4"C.	E.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .4
AIR HANDLER 'AHU-2' (CKT 4 - EN. WH.)	480	3	---	1.52	---	E5H(31,33,35)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .4
AIR HANDLER 'AHU-2' (CKT5 - RECEPT)	120	1	---	8.0	---	E5PA-10	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #B2000, DRAWING E-204	.1
AIR HANDLER 'AHU-3' (CKT1 - LIGHTS)	120	1	---	5.22	---	E5PA-11	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #B2000, DRAWING E-204	.1
AIR HANDLER 'AHU-3' (CKT2 - SUPPLY)	480	3	---	54.5	---	ODPB-7	70	3	3#4, 1#8 GND.	1"C.	E.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .5
AIR HANDLER 'AHU-3' (CKT3 - RETURN)	480	3	---	26.8	---	ODPB-8	35	3	3#8, 1#10 GND.	3/4"C.	E.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .4
AIR HANDLER 'AHU-3' (CK4 - EN. WH.)	480	3	---	1.71	---	E5H(37,39,41)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .4
AIR HANDLER 'AHU-3' (CK5 - RECEPT)	120	1	---	8.0	---	E5PA-12	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #B2000, DRAWING E-204	.1
AIR HANDLER 'AHU-4' (CKT1 - LIGHTS)	120	1	---	5.22	---	E5PA-14	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #B2000, DRAWING E-204	.1
AIR HANDLER 'AHU-4' (CKT2 - SUPPLY)	480	3	---	54.5	---	ODPB-11	70	3	3#4, 1#8 GND.	1"C.	E.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .5
AIR HANDLER 'AHU-4' (CKT3 - RETURN)	480	3	---	26.8	---	ODPB-12	35	3	3#8, 1#10 GND.	3/4"C.	E.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .4
AIR HANDLER 'AHU-4' (CKT4 - EN. WH.)	480	3	---	1.71	---	E5H(32,34,36)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	MECHANICAL #B2000, DRAWING E-204	.2 .3 .4
AIR HANDLER 'AHU-4' (CKT5 - RECEPT)	120	1	---	8.0	---	E5PA-15	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #B2000, DRAWING E-204	.1
CHILLER 'CH-1'	480	3	---	495MCA	---	ODPA-1	600	3	2 SETS 3#250MCM, 1#1 GND.	(2)-2-1/2"C.	M.C.	M.C.	EXTERIOR, DRAWING E-201-C	.2 .19
CHILLER 'CH-1' (RECEPT)	120	1	---	8.0	---	E1PB-34	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	EXTERIOR, DRAWING E-201-C	.1
CHILLER 'CH-2'	480	3	---	495MCA	---	ODPA-2	600	3	2 SETS 3#250MCM, 1#1 GND.	(2)-2-1/2"C.	M.C.	M.C.	EXTERIOR, DRAWING E-201-C	.2 .19
CHILLER 'CH-2' (RECEPT)	120	1	---	8.0	---	E1PB-36	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	EXTERIOR, DRAWING E-201-C	.1
REMOTE EVAPORATOR 'REV-1'	120	1	---	---	---	E1PB-38	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	MECHANICAL #C1053, DRAWING E-201-C	.19
REMOTE EVAPORATOR 'REV-2'	120	1	---	---	---	E1PB-40	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	MECHANICAL #C1053, DRAWING E-201-C	.19
ELEC. WALL HEATER 'EWH-1'	120	1	1.5	12.5	---	E5PB-33	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	INTERLOCK #D1013, DRAWING E-201-D	
ELEC. WALL HEATER 'EWH-2'	120	1	1.5	12.5	---	E2PB-29	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	INTERLOCK #B1063, DRAWING E-201-B	
ELEC. WALL HEATER 'EWH-3'	120	1	1.5	12.5	---	E4PB-33	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	INTERLOCK #E1013, DRAWING E-201-E	
ELEC. WALL HEATER 'EWH-4'	120	1	1.5	12.5	---	E5PB-42	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	STAFF TOILET #D0001, DRAWING E-201-E	
ELEC. WALL HEATER 'EWH-5'	120	1	1.5	12.5	---	E4PB-42	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	STAFF TOILET #E0001, DRAWING E-201-E	
ELEC. WALL HEATER 'EWH-6'	120	1	1.5	12.5	---	E4PA-40	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	INTERLOCK #D1016, DRAWING E-201-D	
ELEC. WALL HEATER 'EWH-7'	120	1	1.5	12.5	---	E4PA-38	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	INTERLOCK #E1017, DRAWING E-201-E	
CHILLED WATER PUMP 'CWP-1'	480	3	---	---	15	E1HA(31,33,35)	30	3	3#10, 1#12 GND.	3/4"C.	E.C.	M.C.	MECHANICAL #C1053, DRAWING E-201-C	.2 .3 .4
CHILLED WATER PUMP 'CWP-2'	480	3	---	---	15	E1HA(37,39,41)	30	3	3#10, 1#12 GND.	3/4"C.	E.C.	M.C.	MECHANICAL #C1053, DRAWING E-201-C	.2 .3 .4
HOT WATER PUMP 'HWP-1'	480	3	---	---	5	E1HA(32,34,36)	20	3	3#10, 1#12 GND.	3/4"C.	E.C.	M.C.	MECHANICAL #C1053, DRAWING E-201-C	.2 .3 .4
HOT WATER PUMP 'HWP-2'	480	3	---	---	5	E1HA(38,40,42)	20	3	3#10, 1#12 GND.	3/4"C.	E.C.	M.C.	MECHANICAL #C1053, DRAWING E-201-C	.2 .3 .4
HOT WATER RECIRC PUMP 'HWRP-1'	480	3	---	---	1.0	VARIES .20	30	3	3#10, 1#12 GND.	3/4"C.	E.C.	MFGR	MECHANICAL #C1053, DRAWING E-201-C	
DOMESTIC BOOSTER PUMP 'DWBP-1'	480	3	---	64	(3)-15	ODPA-13	80	3	3#3, 1#6 GND.	1-1/4"C.	MFGR	MFGR	MECHANICAL #C1053, DRAWING E-201-C	.16
SEWAGE PUMP 'SP-1'	120	1	---	---	4/10	E5PB-34, E4PB-34	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECH. #D0002& #E0002, DRAWING E-201-D&E	.15
SEWAGE PUMP 'SP-2'	120	1	---	---	1/2	E5PB-36, E4PB-36	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECH. #D0002& #E0002, DRAWING E-201-D&E	.15
INFRARED HEATER 'IR-1'	120	1	---	1.8	---	E3PA-28	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	VEH. SALLYPORT #A1000, DRAWING E-201-A	.8
INFRARED HEATER 'IR-2'	120	1	---	1.8	---	E3PA-24	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	VEH. SALLYPORT #A1000, DRAWING E-201-A	.8
INFRARED HEATER 'IR-3' .21	120	1	---	1.8	---	E3PA-26	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	VEH. SALLYPORT #A1000, DRAWING E-201-A	.8
INFRARED HEATER 'IR-4' .21	120	1	---	1.8	---	E3PA-15	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	VEH. SALLYPORT #A1000, DRAWING E-201-A	.8
ELEC. UNIT HEATER 'EUH-1'	208	1	3	14.5	---	E3PA(27,29)	20	2	2#12, 1#12 GND.	3/4"C.	MFGR	---	OPEN STORAGE #A2000, DRAWING E-201-A	
DOOR AIR CURTAIN 'DAC-1'	480	3	---	9.6	---	E1HA(19,21,23)	20	3	3#12, 1#12 GND.	3/4"C.	MFGR	---	EVIDENCE STOR. #A1002, DRAWING E-201-A	
SMOKE EXHAUST FAN 'SEF 1-1'	480	3	---	2.1	1	L2H(8,10,12)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 1-2'	480	3	---	1.6	3/4	L2H(14,16,18)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 1-3'	120	1	---	9.8	1/2	L2P-9	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 1-4'	480	3	---	1.6	3/4	L2H(20,22,24)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 1-5'	480	3	---	2.1	1	L2H(19,21,23)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 1-6'	480	3	---	1.6	3/4	L2H(13,15,17)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 2-1'	480	3	---	2.1	1	L2H(25,27,29)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 2-2'	480	3	---	1.6	3/4	L2H(31,33,35)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 2-3'	120	1	---	9.8	1/2	L2P-11	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 2-4'	480	3	---	1.6	3/4	L2H(37,39,41)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 2-5'	480	3	---	2.1	1	L2H(32,34,36)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 2-6'	480	3	---	1.6	3/4	L2H(26,28,30)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 3'	480	3	---	1.6	3/4	L2H(43,45,47)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 4'	120	1	---	5.8	1/4	L2P-8	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 5'	120	1	---	5.8	1/4	L2P-10	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 6A'	480	3	---	1.6	3/4	L2H(50,52,54)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 6B'	480	3	---	1.6	3/4	L2H(44,46,48)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
SMOKE EXHAUST FAN 'SEF 6C'	480	3	---	1.6	3/4	L2H(38,40,42)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2 .18
EXHAUST FAN 'EF-1'	120	1	---	5.8	1/4	E1PA-46	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-2'	120	1	---	2.6	1/10	E1PB-53	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-3'	120	1	---	2.6	1/10	E5PA-22	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-4'	120	1	---	2.6	1/10	E1PB-49	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-5'	120	1	---	2.6	1/10	E1PC-36	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-6A'	480	3	---	3.4	2	E3H(19,21,23)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-6B'	480	3	---	3.4	2	E3H(20,22,24)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-7'	120	1	---	9.8	1/2	E1PB-51	20	3	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-8'	480	3	---	2.35	--	E1HA(13,15,17)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	WELDING #C1056B, DRAWING E-201-C	.2
EXHAUST FAN 'EF-9'	120	1	---	2.85	1/4	E1PB-50	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-10'	120	1	---	2.85	1/4	E1PB-52	20	1	2#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-ALT-A'	480	3	---	1.6	3/4	E3H(19,21,23)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
EXHAUST FAN 'EF-ALT-B'	480	3	---	9.8	3/4	E3H(20,22,24)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	.2
WATER SOFTNER 'WS-1'	120	1	---	---	---	E1PB-33	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #C1053, DRAWING E-201-C	.15
REVERSE OSMOSIS 'RO-1' - TANK/HEAD	120	1	---	3	---	E1PB-58	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #C1053, DRAWING E-201-C	.15
REVERSE OSMOSIS 'RO-1' - GUARD	208	1	---	---	---	E1PB(54,56)	30	2	2#10, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #C1053, DRAWING E-201-C	.*
DIGITAL THERMO. MIXING VALVE 'TMV-1'	120	1	---	---	---	E1PB-43	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #C1053, DRAWING E-201-C	.15
TRAP PRIMER 'TP-1'	120	1	.006	---	---	E1PB-45	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	MECHANICAL #C1053, DRAWING E-201-C	.17
TRAP PRIMER 'TP-2'	120	1	.006	---	---	E1PB-48	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	MECHANICAL #C1053, DRAWING E-201-C	.17
TRAP PRIMER 'TP-3'	120	1	.006	---	---	E5PA-18	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	MECHANICAL #B2000, DRAWING E-203	.17

E.C. - CONTRACTOR SHALL FURNISH AND INSTALL, SIZE AS SHOWN. SEE REMARKS FOR SIZE
M.C. - STARTER/DISCONNECT TO BE PROVIDED BY EQUIPMENT SUPPLIER, REFER TO MECHANICAL/PLUMBING SCHEDULES.
MFGR - INDICATES DISCONNECT INTEGRAL TO UNIT BY MANUFACTURER

(.1) - FURNISH AND INSTALL 125VAC, 20A, 1-POLE MANUAL MOTOR STARTER WITH TOGGLE DISCONNECT IN NEMA 1 ENCLOSURE. FURNISH WITH RED (RUN) PILOT LIGHT.

(.2) - UNIT PROVIDED WITH STARTER/DISCONNECT. STARTER/DISCONNECT TO BE MOUNTED/WIRED BY CONTRACTOR.

(.3) - UNIT PROVIDED WITH STARTER/DISCONNECT (VFD). STARTER/DISCONNECT TO BE MOUNTED/WIRED BY CONTRACTOR. FURNISH AND INSTALL SPECIAL VFD CABLE BETWEEN VFD AND UNIT PER SPECIFICATIONS. FURNISH AND INSTALL 3/4"C. BETWEEN VFD DRIVE AND DISCONNECT FOR INTERLOCK WIRING. PROVIDE WIRING PER MANUFACTURER'S RECOMMENDATION.

(.4) - 600V NON-FUSED, 30A, 3-POLE, HEAVY DUTY DISCONNECT IN NEMA 1 ENCLOSURE.

(.5) - 600V NON-FUSED, 60A, 3-POLE, HEAVY DUTY DISCONNECT IN NEMA 1 ENCLOSURE.

(.6) - 600V NON-FUSED, 100A, 3-POLE, HEAVY DUTY DISCONNECT IN NEMA 1 ENCLOSURE.

(.7) - 600V NON-FUSED, 200A, 3-POLE, HEAVY DUTY DISCONNECT IN NEMA 1 ENCLOSURE.

(.8) - UNIT IS CORD AND PLUG. FURNISH AND INSTALL 20A, 120V DUPLEX RECEPTACLE NEAR UNIT (I.E. 12" AWAY AND 12" ABOVE FROM THE UNITS HEATER SHEILD).

(.9) - 600V, 20A, 2-POLE MANUAL STARTING SWITCH WITH THERMAL OVERLOAD, RED (RUN) LED PILOT LIGHT AND (1) NO/NC CONTACT, MOTOR RATED.

(.10) - REFER TO TYPICAL VAV BOX WIRING SCHEMATIC, DETAIL #9 ON DRAWING E-803.

(.11) - PROVIDE 3/4"C. BETWEEN UNIT AND ASSOCIATED AC UNIT FOR INTERLOCK WIRING. PROVIDE WITH PULLSTRING. WIRING BY TEMPERATURE CONTROLS CONTRACTOR. VERIFY EXACT LOCATIONS OF EQUIPMENT BEFORE ROUGH-IN.

(.12) - 600V NON-FUSED, 30A, 3-POLE, HEAVY DUTY DISCONNECT IN NEMA 3R ENCLOSURE.

(.13) - 600V NON-FUSED, 30A, 2-POLE, HEAVY DUTY DISCONNECT IN NEMA 3R ENCLOSURE.

(.14) - INDOOR UNIT (DS) IS POWERED BY OUTDOOR UNIT (ACC). TOTAL SYSTEM POWER RATING AS SHOWN. PROVIDE CONNECTION TO INDOOR UNIT PER MANUFACTURER REQUIREMENTS.

(.15) - UNIT IS CORD AND PLUG, REFER TO PLAN FOR LOCATION.

(.16) - PUMPS ARE PRE-WIRED TO CONTROL PANEL.

(.17) - MAKE FINAL CONNECTION TO TRAP PRIMER FROM CIRCUIT SHOWN ON PLANS.

(.18) - SAFETY DISCONNECT SWITCH FOR SMOKE CONTROL EXHAUST FAN SHALL BE EQUIPPED WITH ONE (1) NO/NC AUXILIARY CONTACT KIT. WIRE NC (FAIL SAFE) CONTACT BACK TO SMOKE CONTROL (VIA FAN STARTER); CONTACT SHALL BE MONITORED BY SMOKE CONTROL TO VERIFY SAFETY DISCONNECT IS IN THE CLOSED POSITION AS PART OF SMOKE CONTROL ANNUNICIATION AT MASTER CONTROL ROOM #B1016 FOR FIREFIGHTERS. REFER TO IBC SECTION 900 AND NFPA 92 FOR DETAILED SMOKE CONTROL REQUIREMENTS.

(.19) - PROVIDE 3/4"C. BETWEEN CHILLER AND REMOTE EVAPORATOR FOR COMMUNICATIONS CABLING. FURNISH AND INSTALL CABLING AS RECOMMENDED BY MANUFACTURER.

(.20) - CIRCUITS E1HA(14,16,18) AND E1HA(20,22,24).

(.21) - UNIT TO BE DELETED IN ALTERNATE BID. REFER TO DRAWING E-201-A FOR MORE INFORMATION.

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PE60019675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MECHANICAL EQUIPMENTELECTRICAL CONNECTION SCHEDULE

DRAWING NUMBER
E-604
ELECTRICAL

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GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHERS DIVISIONS/TRADES AS NECESSARY TO FIELD VERIFY ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT (OR OTHER DIVISIONS/TRADES EQUIPMENT) SUBMITTED FOR ENGINEER REVIEW/APPROVAL.

B. EQUIPMENT SUBMITTALS OR SUBSTITUES WITH DIFFERENT ELECTRICAL CONNECTION REQUIREMENTS SHALL BE THE RESPONSIBILITY OF ALL CONTRACTORS (ELECTRICAL AND/OR MECHANICAL AND/OR OTHER DIVISIONS/TRADES) TO FIELD COORDINATE PRIOR TO SUBMITTING FOR ENGINEER REVIEW/APPROVAL; PROVIDE ALL NECESSARY MODIFICATIONS NECESSARY FOR ELECTRICAL CONNECTIONS (I.E. BREAKERS, CABLE, CONDUIT, ETC.) AS NECESSARY FOR A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

C. ENGINEER SHALL NOT BE REPSONISBLE FOR RE-ENGINEERING FOR THESE AFOREMENTIONED ELECTRICAL MODIFICATIONS; WHERE REQUIRED, CONTRACTOR SHALL REIMBURSE ENGINEER FOR ANY AND ALL ENGINEERING MODIFICATIONS NECESSARY PRIOR TO REVIEW/APPROVAL OF SUBMITTALS BY ENGINEER.

D. ELECTRICAL CONTRACTOR SHALL SUBMIT PANELBOARD/SWITCHBOARD SHOP DRAWINGS FOR ENGINEER REVIEW/APPROVAL ONLY AFTER EQUIPMENT FOR ALL DIVISIONS/TRADES HAVE BEEN REVIEWED/APPROVED. SHOP DRAWING SUBMITTALS SHALL REFLECT ALL NECESSARY MODIFICATIONS (I.E. BREAKERS) AS AFOREMENTIONED.

MECHANICAL EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE

DESCRIPTION	ELECTRICAL DATA					CIRCUIT (*) DESIGNATION	O.C.P.		CONDUCTORS	CONDUIT	DISCONNECT BY	STARTER BY	DRAWING LOCATION	REMARK / DISC OR STARTER TYPE
	VOLTS	ø	KW	FLA	HP		AMPS	POLE						
BOILER 'B-1'	208	3	---	10	3	E1PB(61,63,65)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	MECHANICAL #C1053, DRAWING E-201-C	*2
BOILER 'B-2'	208	3	---	10	3	E1PB(67,69,71)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	MECHANICAL #C1053, DRAWING E-201-C	*2
FAN POWERED VAV BOX 'FPV 1-02'	277	1	---	9.8	(2)-3/4	E1HB-7	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	LOBBY #B1001, DRAWING E-201-B	*9 *10
FAN POWERED VAV BOX 'FPV 1-15'	277	1	---	9.8	(2)-3/4	E1HA-7	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CORRIDOR #C1031, DRAWING E-201-C	*9 *10
FAN POWERED VAV BOX 'FPV 1-24'	277	1	---	9.8	(2)-3/4	K1H-8	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	KITCHEN #C1059, DRAWING E-201-C	*9 *10
FAN POWERED VAV BOX 'FPV 1-25'	277	1	---	2.2	1/3	K1H-10	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	KITCHEN #C1059, DRAWING E-201-C	*9 *10
FAN POWERED VAV BOX 'FPV 2-02'	277	1	---	2.3	1/4	E2HA-10	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MALE DETOX #B1061, DRAWING E-201-B	*9 *10
FAN POWERED VAV BOX 'FPV 2-03'	277	1	---	5.8	3/4	E2HA-9	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTAKE CENTER #B1053, DRAWING E-201-B	*9 *10
FAN POWERED VAV BOX 'FPV 2-04'	277	1	---	3.2	1/2	E2HA-7	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CORRIDOR #B1029, DRAWING E-201-B	*9 *10
FAN POWERED VAV BOX 'FPV 2-07'	277	1	---	2.3	1/4	E2HA-8	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTAKE CENTER #B1053, DRAWING E-201-B	*9 *10
FAN POWERED VAV BOX 'FPV 2-08'	277	1	---	2.3	1/4	E2HA-11	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CELL ADA #B1044, DRAWING E-201-B	*9 *10
FAN POWERED VAV BOX 'FPV 2-09'	277	1	---	2.2	1/3	E2HB-9	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	FEMALE CELL #B1118, DRAWING E-201-B	*9 *10
FAN POWERED VAV BOX 'FPV 2-12'	277	1	---	2.2	1/3	E2HB-7	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTERLOCK #B1121, DRAWING E-201-B	*9 *10
FAN POWERED VAV BOX 'FPV 3-01'	277	1	---	5.8	3/4	E5H-23	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTERLOCK #D1003, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-02'	277	1	---	5.8	3/4	E5H-21	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #D1014, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-03'	277	1	---	5.8	3/4	E5H-20	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #D1014, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-04'	277	1	---	5.8	3/4	E5H-19	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #D1014, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-05'	277	1	---	9.8	(2)-3/4	E5H-22	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #D1014, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-06'	277	1	---	9.8	(2)-3/4	E5H-24	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #D1014, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-07'	277	1	---	9.8	(2)-3/4	E5H-28	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTERLOCK #D1016D, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-08'	277	1	---	9.8	(2)-3/4	E5H-26	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTERLOCK #D1016D, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-09'	277	1	---	5.8	3/4	E5H-30	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1016, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-10'	277	1	---	5.8	3/4	E5H-18	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1016, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-11'	277	1	---	5.8	3/4	E5H-27	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTERLOCK #D1011, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-12'	277	1	---	5.8	3/4	E5H-29	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1016, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 3-16'	277	1	---	5.8	3/4	E5H-25	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CLASSROOM #D1006, DRAWING E-202-D	*9 *10
FAN POWERED VAV BOX 'FPV 4-01'	277	1	---	5.8	3/4	E4H-26	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTERLOCK #E1010, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-02'	277	1	---	5.8	3/4	E4H-19	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1014, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-03'	277	1	---	5.8	3/4	E4H-23	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1015, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-04'	277	1	---	5.8	3/4	E4H-21	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1015, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-05'	277	1	---	9.8	(2)-3/4	E4H-25	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1015, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-06'	277	1	---	9.8	(2)-3/4	E4H-27	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1015, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-07'	277	1	---	9.8	(2)-3/4	E4H-31	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTERLOCK #E1016C, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-08'	277	1	---	9.8	(2)-3/4	E4H-29	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTERLOCK #E1016C, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-09'	277	1	---	5.8	3/4	E4H-20	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1016, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-10'	277	1	---	5.8	3/4	E4H-22	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1016, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-11'	277	1	---	5.8	3/4	E4H-30	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	INTERLOCK #E1003, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-12'	277	1	---	5.8	3/4	E4H-24	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CHASE #E1016, DRAWING E-202-E	*9 *10
FAN POWERED VAV BOX 'FPV 4-16'	277	1	---	5.8	3/4	E4H-28	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	CLASSROOM #E1008, DRAWING E-202-E	*9 *10
4-PIPE FAN COIL UNIT 'FCU-1'	115	1	---	3.88MCA	0.22	E5PB-20	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	CHASE #D1014, DRAWING E-201-D	
4-PIPE FAN COIL UNIT 'FCU-2'	115	1	---	3.88MCA	0.22	E5PB-22	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	CHASE #D1014, DRAWING E-201-D	
4-PIPE FAN COIL UNIT 'FCU-3'	115	1	---	3.88MCA	0.22	E5PB-24	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	CHASE #D1015, DRAWING E-201-D	
4-PIPE FAN COIL UNIT 'FCU-4'	115	1	---	3.88MCA	0.22	E4PA-16	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	CHASE #D1015, DRAWING E-201-D	
4-PIPE FAN COIL UNIT 'FCU-5'	115	1	---	3.88MCA	0.22	E4PA-14	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	STORAGE #E1016B, DRAWING E-201-D	
4-PIPE FAN COIL UNIT 'FCU-6'	115	1	---	3.88MCA	0.22	E5PA-35	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	CHASE #E1016 DRAWING E-201-E	
4-PIPE FAN COIL UNIT 'FCU-7'	115	1	---	3.88MCA	0.22	E4PA-18	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	CHASE #E1015, DRAWING E-201-E	
4-PIPE FAN COIL UNIT 'FCU-8'	115	1	---	3.88MCA	0.22	E4PB-24	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	CHASE #E1015, DRAWING E-201-E	
4-PIPE FAN COIL UNIT 'FCU-9'	115	1	---	3.88MCA	0.22	E4PB-22	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	CHASE #E1015, DRAWING E-201-E	
4-PIPE FAN COIL UNIT 'FCU-10'	115	1	---	3.88MCA	0.22	E4PB-20	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	CHASE #E1014, DRAWING E-201-E	
4-PIPE FAN COIL UNIT 'FCU-11'	115	1	---	9.32MCA	0.5	E5PA-15	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	MECHANICAL #B2000, DRAWING E-204	
4-PIPE FAN COIL UNIT 'FCU-12'	115	1	---	9.32MCA	0.5	E5PA-16	20	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	MECHANICAL #B2000, DRAWING E-204	
4-PIPE FAN COIL UNIT 'FCU-13'	115	1	---	3.88MCA	0.22	E1PB-44	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	MECHANICAL #C1053, DRAWING E-201-C	
4-PIPE FAN COIL UNIT 'FCU-14'	115	1	---	3.88MCA	0.22	E1PB-46	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	MECHANICAL #C1053, DRAWING E-201-C	
4-PIPE FAN COIL UNIT 'FCU-15'	115	1	---	6.07MCA	0.13	E1PD-54	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	--- #---, DRAWING E-201-X	
HOT WATER UNIT HEATER 'HUH-1'	115	1	---	2.75MCA	---	E1PB-31	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	RECEIVING #C1052, DRAWING E-201-C	
HOT WATER UNIT HEATER 'HUH-2'	115	1	---	2.75MCA	---	E1PB-27	15	1	2#12, 1#12 GND.	3/4"C.	MFGR	---	RECEIVING #C1052, DRAWING E-201-C	
COMPUTER ROOM UNIT 'CRAC-1'	480	3	---	21.0	---	E2HB(14,16,18)	30	3	3#10, 1#12 GND.	3/4"C.	M.C.	---	SECURITY #C1079, DRAWING E-201-C	*2 *11
COMPUTER ROOM UNIT 'CRAC-2'	277	1	---	16.4	---	E2HA-13	25	1	2#10, 1#12 GND.	3/4"C.	M.C.	---	SECURITY #C1046, DRAWING E-201-C	*2 *11
COMPUTER ROOM UNIT 'CRAC-3'	480	3	---	20.3	---	ODPB-13	30	3	3#10, 1#12 GND.	3/4"C.	M.C.	---	SECURITY #B2001, DRAWING E-204	*2 *11
COMPUTER ROOM UNIT 'CRAC-4'	480	3	---	21.0	---	E2HA(25,27,29)	30	3	3#10, 1#12 GND.	3/4"C.	M.C.	---	MAIN DATA FRAME #B1060, DRAWING E-201-B	*2 *11
AIR COOLED COND. UNIT 'ACC-1'	480	3	---	18.1	---	E2HB(8,10,12)	30	3	3#10, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*12 *11
AIR COOLED COND. UNIT 'ACC-2'	277	1	---	10.5	---	E2HA-12	25	1	2#10, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*13 *11
AIR COOLED COND. UNIT 'ACC-3'	480	3	---	10.3	---	E5H(38,40,42)	20	3	3#12, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*12 *11
AIR COOLED COND. UNIT 'ACC-4'	480	3	---	10.3	---	E2HA(19,21,23)	20	3	3#12, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*12 *11
AIR COOLED COND. UNIT 'ACC-A'	208	1	---	11MCA	---	E2PA(32,34)	30	2	2#10, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*2 *11 *14
DUCTLESS SPLIT 'DS-A'													ELECTRICAL #B1024, DRAWING E-201-B	*2 *11 *14
AIR COOLED COND. UNIT 'ACC-B'	208	1	---	11MCA	---	E2PD(27,29)	30	2	2#10, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*2 *11 *14
DUCTLESS SPLIT 'DS-B'													ELECTRICAL #B1028, DRAWING E-201-B	*2 *11 *14
AIR COOLED COND. UNIT 'ACC-C'	208	1	---	11MCA	---	EP1C(32,34)	30	2	2#10, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*2 *11 *14
DUCTLESS SPLIT 'DS-C'													ELECTRICAL #C1004, DRAWING E-201-C	*2 *11 *14
AIR COOLED COND. UNIT 'ACC-D'	208	1	---	11MCA	---	E5PA(37,39)	30	2	2#10, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*2 *11 *14
DUCTLESS SPLIT 'DS-D'													IT #D1010, DRAWING E-201-D	*2 *11 *14
AIR COOLED COND. UNIT 'ACC-E'	208	1	---	11MCA	---	E5PA(41,43)	30	2	2#10, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*2 *11 *14
DUCTLESS SPLIT 'DS-E'													IT #E1004, DRAWING E-201-E	*2 *11 *14
AIR COOLED COND. UNIT 'ACC-F'	208	1	---	19MCA	---	E5PB(38,40)	30	2	2#10, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*2 *11 *14
DUCTLESS SPLIT 'DS-F'													---	*2 *11 *14
AIR COOLED COND. UNIT 'ACC-G'	208	1	---	19MCA	---	E4PB(38,40)	30	2	2#10, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*2 *11 *14
DUCTLESS SPLIT 'DS-G'													---	*2 *11 *14
MAKE-UP AIR UNIT 'MAU-1'	480	3	---	7.1	2	K1H(31,33,35)	20	3	3#12, 1#12 GND.	3/4"C.	E.C.	---	ROOF, DRAWING E-203	*3 *22
GAS WATER HEATER 'WH-1'	120	1	---	9	---	E1PB-35	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #C1053, DRAWING E-201-C	*1
GAS WATER HEATER 'WH-2'	120	1	---	9	---	E1PB-37	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #C1053, DRAWING E-201-C	*1
GAS WATER HEATER 'WH-3'	120	1	---	9	---	E1PB-39	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #C1053, DRAWING E-201-C	*1
INSTANTANEOUS HEATER 'IWH-1'	480	3	---	---	36.0	E3H(25,27,29)	60	3	3#6, 1#8 GND.	1"C.	MFGR	---	VEHICLE EVIDENCE #A1003, DRAWING E-201-A	*1
DED. OUTDOOR AIR SYSTEM 'DOAS-1'	480	3	---	12.8	2.5	DP-L(8,10,12)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	*2
DED. OUTDOOR AIR SYSTEM 'DOAS-2'	480	3	---	12.8	2.5	L2H(49,51,53)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	*2
ROOF TOP UNIT 'RTU-1'	480	3	---	12MCA	---	E3H(13,15,17)	20	3	3#12, 1#12 GND.	3/4"C.	M.C.	M.C.	ROOF, DRAWING E-203	*2

E.C. - CONTRACTOR SHALL FURNISH AND INSTALL, SIZE AS SHOWN. SEE REMARKS FOR SIZE
M.C. - STARTER/DISCONNECT TO BE PROVIDED BY EQUIPMENT SUPPLIER, REFER TO MECHANICAL/PLUMBING SCHEDULES.
MFGR - INDICATES DISCONNECT INTEGRAL TO UNIT BY MANUFACTURER

(*1) - FURNISH AND INSTALL 125VAC, 20A, 1-POLE MANUAL MOTOR STARTER WITH TOGGLE DISCONNECT IN NEMA 1 ENCLOSURE. FURNISH WITH RED (RUN) PILOT LIGHT.

(*2) - UNIT PROVIDED WITH STARTER/DISCONNECT. STARTER/DISCONNECT TO BE MOUNTED/WIRED BY CONTRACTOR.

(*3) - UNIT PROVIDED WITH STARTER/DISCONNECT (VFD). STARTER/DISCONNECT TO BE MOUNTED/WIRED BY CONTRACTOR. FURNISH AND INSTALL SPECIAL VFD CABLE BETWEEN VFD AND UNIT PER SPECIFICATIONS. FURNISH AND INSTALL 3/4"C. BETWEEN VFD DRIVE AND DISCONNECT FOR INTERLOCK WIRING, PROVIDE WIRING PER MANUFACTURER'S RECOMMENDATION.

(*4) - 600V NON-FUSED, 30A, 3-POLE, HEAVY DUTY DISCONNECT IN NEMA 1 ENCLOSURE.

(*5) - 600V NON-FUSED, 60A, 3-POLE, HEAVY DUTY DISCONNECT IN NEMA 1 ENCLOSURE.

(*6) - 600V NON-FUSED, 100A, 3-POLE, HEAVY DUTY DISCONNECT IN NEMA 1 ENCLOSURE.

(*7) - 600V NON-FUSED, 200A, 3-POLE, HEAVY DUTY DISCONNECT IN NEMA 1 ENCLOSURE.

(*8) - UNIT IS CORD AND PLUG. FURNISH AND INSTALL 20A, 120V DUPLEX RECEPTACLE NEAR UNIT (I.E. 12" AWAY AND 12" ABOVE FROM THE UNITS HEATER SHEILD).

(*9) - 600V, 20A, 2-POLE MANUAL STARTING SWITCH WITH THERMAL OVERLOAD, RED (RUN) LED PILOT LIGHT AND (1) NO/NC CONTACT, MOTOR RATED.

(*10) - REFER TO TYPICAL VAV BOX WIRING SCHEMATIC, DETAIL #9 ON DRAWING E-803.

(*11) - PROVIDE 3/4"C. BETWEEN UNIT AND ASSOCIATED AC UNIT FOR INTERLOCK WIRING. PROVIDE WITH PULLSTRING. WIRING BY TEMPERATURE CONTROLS CONTRACTOR. VERIFY EXACT LOCATIONS OF EQUIPMENT BEFORE ROUGH-IN.

(*12) - 600V NON-FUSED, 30A, 3-POLE, HEAVY DUTY DISCONNECT IN NEMA 3R ENCLOSURE.

(*13) - 600V NON-FUSED, 30A, 2-POLE, HEAVY DUTY DISCONNECT IN NEMA 3R ENCLOSURE.

(*14) - INDOOR UNIT (DS) IS POWERED BY OUTDOOR UNIT (ACC). TOTAL SYSTEM POWER RATING AS SHOWN. PROVIDE CONNECTION TO INDOOR UNIT PER MANUFACTURER REQUIREMENTS.

(*15) - UNIT IS CORD AND PLUG, REFER TO PLAN FOR LOCATION.

(*16) - PUMPS ARE PRE-WIRED TO CONTROL PANEL.

(*17) - MAKE FINAL CONNECTION TO TRAP PRIMER FROM CIRCUIT SHOWN ON PLANS.

(*18) - SAFETY DISCONNECT SWITCH FOR SMOKE CONTROL EXHAUST FAN SHALL BE EQUIPPED WITH ONE (1) NO/NC AUXILIARY CONTACT KIT. WIRE NC (FAIL SAFE) CONTACT BACK TO SMOKE CONTROL (VIA FAN STARTER); CONTACT SHALL BE MONITORED BY SMOKE CONTROL TO VERIFY SAFETY DISCONNECT IS IN THE CLOSED POSITION AS PART OF SMOKE CONTROL ANNUNICIATION AT MASTER CONTROL ROOM #B1016 FOR FIREFIGHTERS. REFER TO IBC SECTION 900 AND NFPA 92 FOR DETAILED SMOKE CONTROL REQUIREMENTS.

(*19) - PROVIDE 3/4"C. BETWEEN CHILLER AND REMOTE EVAPORATOR FOR COMMUNICATIONS CABLING. FURNISH AND INSTALL CABLING AS RECOMMENDED BY MANUFACTURER.

(*20) - CIRCUITS E1HA(14,16,18) AND E1HA(20,22,24).

(*21) - UNIT TO BE DELETED IN ALTERNATE BID. REFER TO DRAWING E-201-A FOR MORE INFORMATION.

(*22) - FURNISH AND INSTALL (1)-3/4"C. FROM UNIT DOWN TO DRYER CHASE #C1065B FOR DRYER INTERLOCK WIRING.

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MECHANICAL EQUIPMENTELECTRICAL CONNECTION SCHEDULE

DRAWING NUMBER
E-605
ELECTRICAL

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Lighting Fixture Schedule

TYPE	LAMP	WATTAGE	VOLTAGE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURER AS APPROVED BY ENGINEER	EQUAL MANUFACTURER AS APPROVED BY ENGINEER	TYPE COMMENTS
A1	LED	30 W	277 V	2' X 4' LED GRID LAY IN BASKET STYLE TROFFER, 3000 LUMENS, 4000K COLOR, 1 DRIVER, UNIVERSAL VOLTAGE, METAL DIFFUSER WITH .075' DIA. ROUND HOLES, ACRYLIC DIFFUSER BACKING	LITHONIA 2AVL4G-30L-MDR-MVOLT-EZ1-LP840	EATON METALUX 24RDI-30-UNV-L840-CD1-U	HUBBELL COLUMBIA LSTE-24-40-VW-G-MPO-ED1-U	
A2	LED	41 W	277 V	2' X 4' LED GRID LAY IN BASKET STYLE TROFFER, 4000 LUMENS, 4000K COLOR, 1 DRIVER, UNIVERSAL VOLTAGE, METAL DIFFUSER WITH .075' DIA. ROUND HOLES, ACRYLIC DIFFUSER BACKING	LITHONIA 2AVL4G-40L-MDR-MVOLT-EZ1-LP840	EATON METALUX 24RDI-40-UNV-L840-CD1-U	HUBBELL COLUMBIA LSTE-24-40-LW-G-MPO-ED1-U	
AA1	LED	34 W	277 V	WALL MOUNTED ARCHITECTURAL AREA LIGHT, 34W, 3730 LUMENS, 600mA DRIVER, 1 LIGHT SQUARES, TYPE IV FORWARD THROW DISTRIBUTION, FINISH PER ARCHITECT, 80CRI, 3000K COLOR, 277V, 1P66 RATED.	EATON McGRAW EDISON GWC-AF(600Ma)-01-LED-E1-T4FT-XX-8030-F277-600	LITHONIA DSXW SERIES AS AN APPROVED EQUAL.	HUBBELL LIGHTING WDS SERIES AS AN APPROVED EQUAL.	MOUNT ON WALL WITH BOTTOM AT +17'-4" AFG UNLESS OTHERWISE NOTES.
AA2	LED	34 W	277 V	WALL MOUNTED ARCHITECTURAL AREA LIGHT, 34W, 3638 LUMENS, 600mA DRIVER, 1 LIGHT SQUARES, TYPE II DISTRIBUTION, FINISH PER ARCHITECT, 80CRI, 3000K COLOR, 277V, 1P66 RATED.	EATON McGRAW EDISON GWC-AF(600Ma)-01-LED-E1-T2-XX-8030-F277-600	LITHONIA DSXW SERIES AS AN APPROVED EQUAL.	HUBBELL LIGHTING WDS SERIES AS AN APPROVED EQUAL.	MOUNT ON WALL WITH BOTTOM AT +12'-0" AFG UNLESS OTHERWISE NOTES.
AA3	LED	85 W	277 V	WALL MOUNTED ARCHITECTURAL AREA LIGHT, 34W, 3730 LUMENS, 600mA DRIVER, 1 LIGHT SQUARES, TYPE IV FORWARD THROW DISTRIBUTION, FINISH PER ARCHITECT, 80CRI, 3000K COLOR, 277V, 1P66 RATED.	EATON McGRAW EDISON GWC-AF(600Ma)-01-LED-E1-T4FT-XX-8030-F277-600	LITHONIA DSXW SERIES AS AN APPROVED EQUAL.	HUBBELL LIGHTING WDS SERIES AS AN APPROVED EQUAL.	MOUNT ON WALL WITH BOTTOM AT +12'-0" AFG UNLESS OTHERWISE NOTES.
B1	LED	23 W	277 V	2' X 4', LAY-IN GRID TROFFER WITH FLAT 0.156 ACRYLIC LENS, 3000 LUMENS, 4000K, COLD ROLLED STEEL HOUSING, FRAME AND HOUSING WITH WHITE POWDER COAT FINISH. PAINTED AFTER FABRICATION	LITHONIA 2GTL-4-30L-FW-A19-MVOLT-EZ1-LP840-PAF	EATON METALUX 24GR-FA-LD5-30-A19/156-UNV-L840-CD1-PAF-U	HUBBELL COLUMBIA LJT-24-40-VW-G-FA-A19-ED1-U-PAF	
B2	LED	30 W	277 V	2' X 4', LAY-IN GRID TROFFER WITH FLAT 0.156 ACRYLIC LENS, 4000 LUMENS, 4000K, COLD ROLLED STEEL HOUSING, FRAME AND HOUSING WITH WHITE POWDER COAT FINISH. PAINTED AFTER FABRICATION	LITHONIA 2GTL-4-40L-FW-A19-MVOLT-EZ1-LP840-PAF	EATON METALUX 24GR-FA-LD5-42-A19/156-UNV-L840-CD1-PAF-U	HUBBELL COLUMBIA LJT-24-40-MW-G-FA-A19-ED1-U-PAF	
B3	LED	36 W	277 V	2' X 4', LAY-IN GRID TROFFER WITH FLAT 0.156 ACRYLIC LENS, 4800 LUMENS, 4000K, COLD ROLLED STEEL HOUSING, FRAME AND HOUSING WITH WHITE POWDER COAT FINISH. PAINTED AFTER FABRICATION	LITHONIA 2GTL-4-48L-FW-A19-MVOLT-EZ1-LP840-PAF	EATON METALUX 24GR-FA-LD5-48-A19/156-UNV-L840-CD1-PAF-U	HUBBELL COLUMBIA LJT-24-40-ML-G-FA-A19-ED1-U-PAF	
C1	LED	18 W	277 V	2' X 2', LAY-IN GRID TROFFER WITH FLAT 0.156 ACRYLIC LENS, 2000 LUMENS, 4000K, COLD ROLLED STEEL HOUSING, FRAME AND HOUSING WITH WHITE POWDER COAT FINISH. PAINTED AFTER FABRICATION	LITHONIA 2GTL-2-20L-FW-A19-MVOLT-EZ1-LP840-PAF	EATON METALUX 22GR-FA-LD5-20-A19/156-UNV-L840-CD1-PAF-U	HUBBELL COLUMBIA LJT-22-40-MW-G-FA-A19-ED1-U-PAF	
C2	LED	29 W	277 V	2' X 2', LAY-IN GRID TROFFER WITH FLAT 0.156 ACRYLIC LENS, 3300 LUMENS, 4000K, COLD ROLLED STEEL HOUSING, FRAME AND HOUSING WITH WHITE POWDER COAT FINISH. PAINTED AFTER FABRICATION	LITHONIA 2GTL-2-33L-FW-A19-MVOLT-EZ1-LP840-PAF	EATON METALUX 22GR-FA-LD5-32-A19/156-UNV.L840-CD1-PAF-U	HUBBELL COLUMBIA LJT-22-40-ML-G-FA-A19-ED1-U-PAF	
CC1	LED	19 W	277 V	2' LONG LINEAR WALL MOUNT WITH DIRECT (DOWN) WALL GRAZE LIGHTING, 19W, 1732 LUMENS, 3000K COLOR, 80CRI, UNIVERSAL VOLTAGE, DIFFUSE LENS, 3" FIXED MOUNTING BRACKET AND FINISH AS SELECTED BY ARCHITECT.	ARCHITECTURAL AREA LIGHTING RN-D-X-2-7-3K8-WG-DL-UNV-F3-EMF1-XX			MOUNT ON WALL WITH BOTTOM AT +12'-0" AFG UNLESS OTHERWISE NOTED.
CC2	LED	19 W	277 V	2' LONG LINEAR WALL MOUNT WITH DIRECT (DOWN) PENDANT MOUNTED SYMMETRICAL DISTRIBUTION LIGHT, 19W, 1732 LUMENS, 3000K COLOR, 80CRI, UNIVERSAL VOLTAGE, DIFFUSE LENS, 12" PENDANT MOUNTING BRACKET AND FINISH AS SELECTED BY ARCHITECT.	ARCHITECTURAL AREA LIGHTING RN-D-X-2-7-3K8-SM-DL-UNV-PSW12-EMF1-XX			SURFACE MOUNTED
D1	LED	19 W	277 V	6" DIAMETER LED FIXTURE, RECESSED DOWNLIGHT, 16GA STEEL, 1500 LUMENS, 4000K, SEMI-SPECULAR REFLECTOR, WHITE DIE CAST TRIM RING, MEDIUM DISTRIBUTION.	GOTHAM LIGHTING EVO-6AR-40/15-MD-LSS-MVOLT-EZ1-TRW	EATON PORTFOLIO LD6B-15-D010-EU6B-1020-80-40-6LB-M-1-H-HB26	HUBBELL PRESCOLITE LTR-6RD-H-SL-15L-DM1 / LTR-6RD-T-SL-40K-8-MD-SS-WT-B24	
D2	LED	23 W	277 V	6" DIAMETER LED FIXTURE, RECESSED DOWNLIGHT, 2000 LUMENS, 3000K COLOR, IC RATED HOUSING, SPECULAR REFLECTOR, WHITE DIE CAST TRIM RING, RECESSED LENS, SUITABLE FOR WET LOCATION	GOTHAM LIGHTING EVO-30/20-6DFR-MVOLT	EATON HALO PD610ED010 / PDM6A840 / 61VW	HUBBELL PRESCOLITE LB6LEDA10L-40K-WH-DBXQL	
EE1	LED		277 V	LUMENFACADE EXTERIOR WALL MOUNT FIXTURE	Lumenpulse			
F1	LED	10 W	277 V	2' LED SURFACE STRIPLIGHT WITH FLAT DIFFUSE LENS, 1500 LUMENS, 80CRI, 4000K COLOR, GENERAL DISTRIBUTION, DIMMING DRIVER, PIR INTEGRAL OCCUPANCY SENSOR AND FINISH BY ARCHITECT.	LITHONIA CLX-L24-1500LM-HEF-FDL-MVOLT-EZ1-40K-80CRI-MSD7-XX	EATON METALUX 2SNLED-LD5-16SL-SLW-UNV-LB-ERMS360-L840-CD1-U	HUBBELL COLUMBIA MPS-2-40-VW-F-W-ED1-U-NXS	
F2	LED	19 W	277 V	4' LED SURFACE STRIPLIGHT WITH FLAT DIFFUSE LENS, 3000 LUMENS, 80CRI, 4000K COLOR, GENERAL DISTRIBUTION, PREMIUM EFFICIENCY WITH WHITE FINISH AND WIDE DECORATIVE 48" REFLECTOR WITH UPLIGHT.	LITHONIA CLX-L48-3000LM-HEF-FDL-MVOLT-EZ1-40K-80CRI-WH-CLXRWU48WH-ZACVH	EATON METALUX 4ILED-LD5-5-W-FL/UPL-UNV-L840-CD1-U AYC-CHAIN/SET-U	HUBBELL COLUMBIA EQUAL	MOUNT WITH BOTTOM AT +12'-0" AFF UNLESS OTHERWISE NOTED.
F3	LED	19 W	277 V	4' LED SURFACE STRIPLIGHT WITH FLAT DIFFUSE LENS, 3000 LUMENS, 80CRI, 4000K COLOR, GENERAL DISTRIBUTION, PREMIUM EFFICIENCY WITH WHITE FINISH AND WIDE DECORATIVE 48" REFLECTOR.	LITHONIA CLX-L48-3000LM-HEF-FDL-MVOLT-EZ1-40K-80CRI-WH-CLXRW48WH-ZACVH	EATON METALUX 4ILED-LD5-5-W-FL-UNV-L840-CD1-U AYC-CHAIN/SET-U	HUBBELL COLUMBIA EQUAL	FIXTURE TO BE SURFACE MOUNTED ON BOTTOM OF FLOOR, PRECAST, STRUCTURE, ETC.
F4	LED	32 W	277 V	4' LED SURFACE STRIPLIGHT WITH FLAT DIFFUSE LENS, 5000 LUMENS, 80CRI, 4000K COLOR, GENERAL DISTRIBUTION, PREMIUM EFFICEINCY WITH WHITE FINISH AND WIDE DECORATIVE 48" REFLECTOR WITH UPLIGHT.	LITHONIA CLX-L48-5000LM-HEF-FDL-MVOLT-EZ1-40K-80CRI-WH-CLXRWU48WH-ZACVH	EATON METALUX 4ILED-LD5-5-W-FL/UPL-UNV-L840-CD1-U AYC-CHAIN/SET-U	HUBBELL COLUMBIA EQUAL	MOUNT WITH BOTTOM AT +12'-0" AFF UNLESS OTHERWISE NOTED.
F5	LED	32 W	277 V	4' LED SURFACE STRIPLIGHT WITH FLAT DIFFUSE LENS, 5000 LUMENS, 80CRI, 4000K COLOR, GENERAL DISTRIBUTION, PREMIUM EFFICEINCY WITH WHITE FINISH AND WIDE DECORATIVE 48" REFLECTOR.	LITHONIA CLX-L48-5000LM-HEF-FDL-MVOLT-EZ1-40K-80CRI-WH-CLXRW48WH-ZACVH	EATON METALUX 4ILED-LD5-5-W-FL-UNV-L840-CD1-U AYC-CHAIN/SET-U	HUBBELL COLUMBIA EQUAL	FIXTURE TO BE SURFACE MOUNTED ON BOTTOM OF FLOOR, PRECAST, STRUCTURE, ETC.
F6	LED	32 W	277 V	4' LED SURFACE STRIPLIGHT WITH FLAT DIFFUSE LENS, 7000 LUMENS, 80CRI, 4000K COLOR, GENERAL DISTRIBUTION, PREMIUM EFFICEINCY WITH WHITE FINISH AND WIDE DECORATIVE 48" REFLECTOR WITH UPLIGHT.	LITHONIA CLX-L48-7000LM-HEF-FDL-MVOLT-EZ1-40K-80CRI-WH-CLXRWU48WH-ZACVH	EATON METALUX 4ILED-LD5-7-W-FL/UPL-UNV-L840-CD1-U AYC-CHAIN/SET-U	HUBBELL COLUMBIA EQUAL	MOUNT WITH BOTTOM AT +11'-0" AFF UNLESS OTHERWISE NOTED.
FF1	LED		277 V	DECORATIVE ADA COMPLIANT UP/DOWN LIGHT, 21W, 1078 LUMENS, 80CRI, 3000K COLOR, VERY NARROW 9 DEGREE OPTICS, 277V WITH FUSE AND FINISH AS SELECTED BY ARCHITECT.	LUMINIS LIGHTING SY302-L2L15NR-R9-277V-XX-FS-2K3			MOUNT ON WALL WALL WITH BOTTOM AT +6'-9" AFG UNLESS OTHERWISE NOTED.
G1	LED	20 W	277 V	2' X 2' LED LAY IN GRID BASKET STYLE TROFFER, 2000 LUMENS, 4000K COLOR, 1 DRIVER, UNIVERSAL VOLTAGE, METAL DIFFUSER WITH .075' DIA. ROUND HOLES, ACRYLIC DIFFUSER BACKING	LITHONIA 2AVL2G-20L-MDR-MVOLT-EZ1-LP840	EATON METALUX 22RDI-20-UNV-L840-CD1-U	HUBBELL COLUMBIA LSTE-22-40-MW-G-MPO-ED1-U	LAY IN
G2	LED	31 W	277 V	2' X 2' LED LAY IN GRID BASKET STYLE TROFFER, 3000 LUMENS, 4000K COLOR, 1 DRIVER, UNIVERSAL VOLTAGE, METAL DIFFUSER WITH .075' DIA. ROUND HOLES, ACRYLIC DIFFUSER BACKING	LITHONIA 2AVL2G-30L-MDR-MVOLT-EZ1-LP840	EATON METALUX 22RDI-30-UNV-L840-CD1-U	HUBBELL COLUMBIA LSTE-22-40-ML-G-MPO-ED1-U	LAY IN
G3	LED	41 W	277 V	2' X 2' LED LAY IN GRID BASKET STYLE TROFFER, 4000 LUMENS, 4000K COLOR, 1 DRIVER, UNIVERSAL VOLTAGE, METAL DIFFUSER WITH .075' DIA. ROUND HOLES, ACRYLIC DIFFUSER BACKING	LITHONIA 2AVL2G-40L-MDR-MVOLT-EZ1-LP840	EATON METALUX 22RDI-40-UNV-L840-CD1-U	HUBBELL COLUMBIA LSTE-22-40-VL-G-MPO-ED1-U	LAY IN
GG1	LED		277 V	4' LONG EXTERIOR LINEAR SURFACE MOUNTED LIGHT, 7W / FT, 2950 LUMENS, 82 CRI, 3000K COLOR, 100 DEGREE X 100 DEGREE DISTRIBUTION, 277V, NO DIMINNG WITH FINISH AS SELECTED BY ARCHITECT.	INSIGHT LIGHTING MVWII-7-30K-100 DEGREE-SMS-48-277-NO-XX	LUMENPULSE LOG SERIES AS AN APPROVED EQUAL.	INSIGHT LIGHTING AS AN APPROVED EQUAL.	FIXTURE TO BE SURFACE MOUNTED ON TOP OF VESTIBULE AND AIMED AT CENTER OF LOGO.
J1	LED	33 W	277 V	8" x 54", ROUGH SERVICE FIXTURE, SURFACE MOUNT, 4000 LUMENS, 3500K COLOR, CLEAR POLYCARBONATE LENS, MEDIUM DISTRIBUTION, UL LISTED FOR WET LOCATION, STAINLESS STEEL TAMPER RESISTANT LATCHES, IP65/66 RATED.	LITHONIA VAP-4000LM-PCL-MD-MVOLT-GZ10-35K-80CRI-STSL	EATON METALUX 4VT3-LD5-4-WPC-UNV-L840-CD1-SSL-U	HUBBELL COLUMBIA LXEM-4-40-LW-RP-ED-U-SSL	FIXTURE TO BE SURFACE MOUNTED U.O.N.
L1	LED	50 W	277 V	2' X 4', GRID LAYIN IMPACT AND VANDAL RESISTANT FIXTURE, 45 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS CONCEALED PIANO HINGE, 14 GUAGE COLD ROLLED STEEL HOUSING WITH WHITE POWDER COAT FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY.	KENALL RMCD4-TG-0/0-45L40K-DCC-1-DV-2/J-1	EATON FAIL-SAFE FSR-TG-X-24-4-LD4-3LO-40-UNV-81/88-EDD1 / VRSD	NEWSTAR LIGHTING 57-R-24-B/B-L2(MOD 4300LMS)-40-1C-4/B-UN	
L1B	LED	74 W	277 V	2' X 4', GRID LAYIN IMPACT AND VANDAL RESISTANT FIXTURE, 67 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS CONCEALED PIANO HINGE, 14 GUAGE COLD ROLLED STEEL HOUSING WITH WHITE POWDER COAT FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY.	KENALL RMCD4-TG-0/0-67L40K-DCC-1-DV-2/J-1	EATON FAIL-SAFE FSR-TG-X-24-4-LD4-3STD-40-UNV-81/88-EDD1 / VRSD	NEWSTAR LIGHTING 57-R-24-B/B-L-40-1C-4/B-UN	
L2	LED	51 W	277 V	2' X 2', GRID LAYIN IMPACT AND VANDAL RESISTANT FIXTURE, 45 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS CONCEALED PIANO HINGE, 14 GUAGE COLD ROLLED STEEL HOUSING WITH WHITE POWDER COAT FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY.	KENALL RMCD2-TG-0/0-45L40K-DCC-1-DV-2/J-1	EATON FAIL-SAFE FSR-TG-X-24-2-LD4-3STD-40-UNV-81/88-EDD1 / VRSD	NEWSTAR LIGHTING 57-R-22-B/B-L2(MOD 3700LMS)-40-1C-4/B-UN	
L2B	LED	74 W	277 V	2' X 2', GRID LAYIN IMPACT AND VANDAL RESISTANT FIXTURE, 67 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS CONCEALED PIANO HINGE, 14 GUAGE COLD ROLLED STEEL HOUSING WITH WHITE POWDER COAT FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY.	KENALL RMCD2-TG-0/0-67L40K-DCC-1-DV-2/J-1	EATON FAIL-SAFE FSR-TG-X-24-2-LD4-4STD-40-UNV-81/88-EDD1 / VRSD	NEWSTAR LIGHTING 57-R-22-B/B-L2(MOD 5300LMS)-40-1C-4/B-UN	
M1	LED	50 W	277 V	12" X 48", SURFACE CEILING MOUNT, IMPACT AND VANDAL RESISTANT FIXTURE, 45 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS HINGED LENS FRAME WITH WHITE POWDER COAT FINISH, 14 GUAGE COLD ROLLED STEEL HOUSING WITH WHITE POWDER COATE FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY. REMOVABLE GEAR TRAY. UL LISTED FOR DAMP LOCATION.	KENALL SDSA-4-0/0-45L40K-DDC-DV-2/J-1	EATON FAIL-SAFE FUSL-X-12-4-LD4-2STD-40-UNV-81/88-EDD1	NEWSTAR LIGHTING WARN4-H-L2(MOD 4000LMS)-40-1-4/B-UN-TH	ALL JOINTS IN FIXTURE AND BETWEEN FIXTURE AND MOUNTING SURFACE SHALL BE FILLED COMPLETELY. FIXTURE TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST WHERE INDICATED ON PLANS.
M1A	LED	50 W	277 V	12" X 48", SURFACE CEILING MOUNT, IMPACT AND VANDAL RESISTANT FIXTURE, 45 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS HINGED LENS FRAME WITH WHITE POWDER COAT FINISH, 14 GUAGE STAINLESS STEEL HOUSING WITH WHITE POWDER COATE FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY. REMOVABLE GEAR TRAY. UL LISTED FOR WET LOCATION	KENALL SDSA-4-3/3-45L40K-DDC-DV-2/J-1-WL	EATON FAIL-SAFE FUSL-X-12-4-LD4-2STD-40-UNV-81/88-EDD1-WL-SSP	NEWSTAR LIGHTING WARN4-H-L2(MOD 4000LMS)-40-1-4/B-UN-TH-WL	ALL JOINTS IN FIXTURE AND BETWEEN FIXTURE AND MOUNTING SURFACE SHALL BE FILLED COMPLETELY. FIXTURE TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST WHERE INDICATED ON PLANS.
M1C	LED	50 W	277 V	12" X 48", SURFACE CEILING MOUNT, IMPACT AND VANDAL RESISTANT FIXTURE, 45 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS HINGED LENS FRAME WITH WHITE POWDER COAT FINISH, 14 GUAGE STAINLESS STEEL HOUSING WITH WHITE POWDER COATE FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY. REMOVABLE GEAR TRAY. UL LISTED FOR WET LOCATION.	KENALL SDSA-4-3/3-45L40K-DDC-DV-2/J-1-WL	EATON FAIL-SAFE FUSL-X-12-4-LD4-2STD-40-UNV-81/88-EDD1-WL-SSP	NEWSTAR LIGHTING WARN4-H-L2(MOD 4000LMS)-40-1-4/B-UN-TH-WL	ALL JOINTS IN FIXTURE AND BETWEEN FIXTURE AND MOUNTING SURFACE SHALL BE FILLED COMPLETELY. FIXTURE TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST WHERE INDICATED ON PLANS.
M1N	LED	50 W	277 V	12" X 48", SURFACE CEILING MOUNT, IMPACT AND VANDAL RESISTANT FIXTURE, 45 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS HINGED LENS FRAME WITH WHITE POWDER COAT FINISH, 14 GUAGE COLD ROLLED STEEL HOUSING WITH WHITE POWDER COATE FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY. REMOVABLE GEAR TRAY. UL LISTED FOR DAMP LOCATION, LED NIGHT LIGHT.	KENALL SDSA-4-0/0-45L40K-DDC-DV-2/J-1-DLN	EATON FAIL-SAFE FUSL-X-12-4-LD4-2STD-40-UNV-81/88-EDD1-LLNDL	NEWSTAR LIGHTING WARN4-B-L2(MOD 4000LMS)-40-1-4/B-UN-TH-DLN	ALL JOINTS IN FIXTURE AND BETWEEN FIXTURE AND MOUNTING SURFACE SHALL BE FILLED COMPLETELY. FIXTURE TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST WHERE INDICATED ON PLANS.
N1N	LED	50 W	277 V	8" X 48", SURFACE CORNER WALL MOUNT, IMPACT AND VANDAL RESISTANT FIXTURE, 45 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS HINGED LENS FRAME WITH WHITE POWDER COATE FINISH, 14 GUAGE COLD ROLLED STEEL HOUSING WITH WHITE POWDER COAT FINISH. LED NIGHT LIGHT, TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY. REMOVABLE GEAR TRAY. UL LISTED FOR DAMP LOCATION.	KENALL CD4-0/0-45L40K-DCC-DV-2/J-1-RGT-DLN	EATON FAIL-SAFE FCC-X-4-LD4-2LO-40-UNV-81/88-EDD1-LLNL	NEWSTAR LIGHTING 554-B-L2(MOD 3700LMS)-40-1-4/B-UN-TH-DLN-RGT	ALL JOINTS IN FIXTURE AND BETWEEN FIXTURE AND MOUNTING SURFACE SHALL BE FILLED COMPLETELY. FIXTURE TO BE SURFACE MOUNTED BELOW PRECAST IN CORNER WHERE INDICATED ON PLANS.
N2N	LED	74 W	277 V	8" X 48", SURFACE CORNER WALL MOUNT, IMPACT AND VANDAL RESISTANT FIXTURE, 67 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS HINGED LENS FRAME WITH WHITE POWDER COATE FINISH, 14 GUAGE COLD ROLLED STEEL HOUSING WITH WHITE POWDER COAT FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY. LED NIGHT LIGHT. REMOVABLE GEAR TRAY. UL LISTED FOR DAMP LOCATION.	KENALL CD4-0/0-67L40K-DCC-DV-2/J-1-RGT-DLN	EATON FAIL-SAFE FCC-X-4-LD4-2STD-40-UNV-81/88-EDD1-LLNL	NEWSTAR LIGHTING 554-B-L2-40-1-4/B-UN-TH-DLN-RGT	ALL JOINTS IN FIXTURE AND BETWEEN FIXTURE AND MOUNTING SURFACE SHALL BE FILLED COMPLETELY. FIXTURE TO BE SURFACE MOUNTED BELOW PRECAST IN CORNER WHERE INDICATED ON PLANS.
N3N	LED	99 W	277 V	8" X 48", SURFACE CORNER WALL MOUNT, IMPACT AND VANDAL RESISTANT FIXTURE, 90 WATT, 4000K, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS HINGED LENS FRAME WITH WHITE POWDER COATE FINISH, 14 GUAGE COLD ROLLED STEEL HOUSING WITH WHITE POWDER COAT FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY. LED NIGHT LIGHT. REMOVABLE GEAR TRAY. UL LISTED FOR DAMP LOCATION.	KENALL CD4-0/0-90L40K-DCC-DV-2/J-1-RGT-DLN	EATON FAIL-SAFE FCC-X-4-LD4-2HI-40-UNV-81/88-EDD1-LLNL	NEWSTAR LIGHTING 554-B-L3(MOD 6800 LMS)-40-1-4/B-UN-TH-DLN-RGT	ALL JOINTS IN FIXTURE AND BETWEEN FIXTURE AND MOUNTING SURFACE SHALL BE FILLED COMPLETELY. FIXTURE TO BE SURFACE MOUNTED BELOW PRECAST IN CORNER WHERE INDICATED ON PLANS.
P1	LED	31 W	277 V	4' INDUSTRIAL LED LINEAR BAY, 31 WATT, 4000K COLOR, 4000 LUMENS, WIDE DISTRIBUTION, HEAVY DUTY WIREGUARD, UNIVSERSAL VOLTAGE, ONE 0-10V DIMMING DRIVER, COLD ROLLED STEEL FULL BODY HOUSING.	EATON METALUX 4-ILED-LD5-5-W-WG-UNV-L840-CD1	LITHONIA LIGHTING UFIT-L48-4000LM-SEF-MVOLT-GZ10-40K-80CRI-WH-WGMS8Z	HUBBELL COLUMBIA RLW-4-40-ML-FA-W-ED-U-RLWWG4	FIXTURE TO BE CHAIN MOUNTED WITH BOTTOM AT +14'-0" AFF.
R1	LED	44 W	277 V	8" X 48", SURFACE MOUNT, VANDAL RESISTANT FIXTURE, 4489 LUMENS, 4000K COLOR, OPAL POLYCARBONATE LENS, ELECTRONIC NON-DIMMABLE DRIVER, TAMPER RESISTANT TORX SCREWS AND INTEGRATED MOTION/OCCUPANCY SENSOR. FINISH TO BY ARCHITECT.	EATON FAIL-SAFE HVSL8-4-LD4-1-HI-40-UNV-O-EDC-1-XX-VRSD-OS1(277V)	KENALL MLHA8-48-F-MW-PP-45L40K-DCC-DV-MS	NEWSTAR LIGHTING VIC-4-N-L2-40-1C-RW-UN-XX-OC-TH	FIXTURE TO BE SURFACE MOUNTED ON WALL AT +8'-0" AFF.
SA	LED	59 W	277 V	SINGLE ARCHITECTURAL AREA LIGHT ON 15' POLE, 59W, 6033 LUMENS, 80CRI, 3000K COLOR, 277V, 01 LIGHT SQUARES, TYPE II DISTRIBUTION, FINISH PER ARCHITECT, ARM MOUNT AND IP66 RATED. POLE: 15' SQUARE STRAIGHT ALUMINUM POLE, 4" SHAFT SIZE, 0.125" THICK WITH FINISH PER ARCHITECT TO MATCH FIXTURE.	EATON McGRAW EDISON GPC-AF(1A)-01-LED-E1-T2-XX-8030-F277 POLE: EATON McGRAW EDISON SSA4T15W-XX			REFER TO LIGHT POLE FOUNDATION DETAIL #3 ON SHEET E-802 FOR POLE BASE DETAIL.
SB	LED	59 W	277 V	SINGLE ARCHITECTURAL AREA LIGHT ON 30' POLE, 59W, 5414 LUMENS, 80CRI, 3000K COLOR, 277V, 01 LIGHT SQUARES, TYPE II DISTRIBUTION, FINISH PER ARCHITECT, ARM MOUNT AND IP66 RATED. POLE: 30' SQUARE STRAIGHT ALUMINUM POLE, 6" SHAFT SIZE, 0.250" THICK WITH FINISH PER ARCHITECT TO MATCH FIXTURE.	EATON McGRAW EDISON GLEON-AF(1A)-01-LED-E1-T2-XX-8030-F277 POLE: EATON McGRAW EDISON SSA6X30W-XX	LITHONIA DSX SERIES AS AN APPROVED EQUAL.	HUBBELL BEACON VPS SERIES AS AN APPROVED EQUAL.	REFER TO LIGHT POLE FOUNDATION DETAIL #3 ON SHEET E-802 FOR POLE BASE DETAIL.
SC	LED	113 W	277 V	SINGLE ARCHITECTURAL AREA LIGHT ON 30' POLE, 113W, 10579 LUMENS, 80CRI, 3000K COLOR, 277V, 02 LIGHT SQUARES, TYPE II DISTRIBUTION, FINISH PER ARCHITECT, ARM MOUNT AND IP66 RATED. POLE: 20' SQUARE STRAIGHT ALUMINUM POLE, 6" SHAFT SIZE, 0.250" THICK WITH FINISH PER ARCHITECT TO MATCH FIXTURE.	EATON McGRAW EDISON GLEON-AF(1A)-02-LED-E1-T2-XX-8030-F277 POLE: EATON McGRAW EDISON SSA6X30W-XX	LITHONIA DSX SERIES AS AN APPROVED EQUAL.	HUBBELL BEACON VPS SERIES AS AN APPROVED EQUAL.	REFER TO LIGHT POLE FOUNDATION DETAIL #3 ON SHEET E-802 FOR POLE BASE DETAIL.
SD	LED	59 W	277 V	SINGLE ARCHITECTURAL AREA LIGHT ON 30' POLE, 59W, 5550 LUMENS, 80CRI, 3000K COLOR, 277V, 01 LIGHT SQUARES, TYPE IV FORWARD THROW DISTRIBUTION, FINISH PER ARCHITECT, ARM MOUNT AND IP66 RATED. POLE: 30' SQUARE STRAIGHT ALUMINUM POLE, 6" SHAFT SIZE, 0.250" THICK WITH FINISH PER ARCHITECT TO MATCH FIXTURE.	EATON McGRAW EDISON GLEON-AF(1A)-01-LED-E1-T4FT-XX-8030-F277 POLE: EATON McGRAW EDISON SSA6X30W-XX	LITHONIA DSX SERIES AS AN APPROVED EQUAL.	HUBBELL BEACON VPS SERIES AS AN APPROVED EQUAL.	REFER TO LIGHT POLE FOUNDATION DETAIL #3 ON SHEET E-802 FOR POLE BASE DETAIL.
SE	LED	118 W	277 V	TWIN ARCHITECTURAL AREA LIGHT ON 30' POLE, 59W, 5550 LUMENS, 80CRI, 3000K COLOR PER HEAD, 277V, 01 LIGHT SQUARES, TYPE IV FORWARD THROW DISTRIBUTION, FINISH PER ARCHITECT, ARM MOUNT AND IP66 RATED. POLE: 30' SQUARE STRAIGHT ALUMINUM POLE, 6-3/4" SHAFT SIZE, 0.250" THICK WITH FINISH PER ARCHITECT TO MATCH FIXTURE.	EATON McGRAW EDISON GLEON-AF(1A)-01-LED-E1-T4FT-XX-8030-F277 POLE: EATON McGRAW EDISON SSA9X30W-XX	LITHONIA DSX SERIES AS AN APPROVED EQUAL.	HUBBELL BEACON VPS SERIES AS AN APPROVED EQUAL.	REFER TO LIGHT POLE FOUNDATION DETAIL #3 ON SHEET E-802 FOR POLE BASE DETAIL.
SF	LED	113 W	277 V	SINGLE ARCHITECTURAL AREA LIGHT ON 35' POLE, 113W, 10845 LUMENS, 80CRI, 3000K COLOR, 277V, 02 LIGHT SQUARES, TYPE IV FORWARD THROW DISTRIBUTION, FINISH PER ARCHITECT, ARM MOUNT AND IP66 RATED. POLE: 35' SQUARE STRAIGHT ALUMINUM POLE, 6-3/4" SHAFT SIZE, 0.250" THICK WITH FINISH PER ARCHITECT TO MATCH FIXTURE.	EATON McGRAW EDISON GLEON-AF(1A)-02-LED-E1-T4FT-XX-8030-F277 POLE: EATON McGRAW EDISON SSA9X35W-XX	LITHONIA DSX SERIES AS AN APPROVED EQUAL.	HUBBELL BEACON VPS SERIES AS AN APPROVED EQUAL.	REFER TO LIGHT POLE FOUNDATION DETAIL #3 ON SHEET E-802 FOR POLE BASE DETAIL.
SG	LED	225 W	277 V	SINGLE ARCHITECTURAL AREA LIGHT ON 30' POLE, 225W, 21383 LUMENS, 80CRI, 3000K COLOR, 277V, 04 LIGHT SQUARES, TYPE V WIDE SQUARE DISTRIBUTION, FINISH PER ARCHITECT, ARM MOUNT AND IP66 RATED. POLE: 30' SQUARE STRAIGHT ALUMINUM POLE, 6" SHAFT SIZE, 0.250" THICK WITH FINISH PER ARCHITECT TO MATCH FIXTURE.	EATON McGRAW EDISON GLEON-AF(1A)-04-LED-E1-5WQ-XX-8030-F277 POLE: EATON McGRAW EDISON SSA4M20W-XX	LITHONIA DSX SERIES AS AN APPROVED EQUAL.	HUBBELL BEACON VPS SERIES AS AN APPROVED EQUAL.	REFER TO LIGHT POLE FOUNDATION DETAIL #3 ON SHEET E-802 FOR POLE BASE DETAIL.
SH	LED	46 W	277 V	ARCHITECTURAL FLOOD LIGHT, DIE-CAST ALUMINUM HOUSING, 3000K COLOR, 70CRI, 3877 LUMENS, 46 WATTS, ELECTRONIC BALLAST, TIGHT SPOT DISTRIBUTION, VANDAL RESISTANT VISOR, 18" STANCHION MOUNT, 5 YEAR WARRANTY WITH FINISH BY ARCHITECT.	EATON INVUE LIGHTING VFS-K-B40-7-LED-E1-TS-XX-SM-18-VFS-4S	LITHONIA DSXF SERIES AS AN APPROVED EQUAL.	HUBBELL OUTDOOR LIGHTING FML SERIES AS AN APPROVED EQUAL.	FIXTURE TO MOUNTED ON CONCRETE BASE, REFER TO DETAIL #5 ON SHEET E-802.
T1	LED	12 W	277 V	4" X 48" DIRECT RECESSED LINEAR FIXTURE, 350 LUMENS / FT, 4000K COLOR, 80 CRI, UNIVERSAL VOLTAGE, 0-10V DIMMING DRIVER, EXTRUDED ALUMINUM HOUSING IN MATTE WHITE FINISH WITH SATIN FLUSH DIFFUSER.	FOCAL POINT FSM4L-FL-375LF-40K-1C-UNC-LD1-G1-WH-12	LITHONIA SL4L-LOP-4FT-FLP-XX-80CRI-40-400LMF-MIN1-277V-ZT	HUBBELL LITECONTROL 4L-LG-D-4-4-SOF-C1-40K-040-D01-1C-UNV-W1	
V1	LED	18 W	277 V	2' X 2', SURFACE MOUNT TROFFER WITH FLAT 0.156 ACRYLIC LENS, 2000 LUMENS, 4000K, COLD ROLLED STEEL HOUSING, FRAME AND HOUSING WITH WHITE POWDER COAT FINISH. PAINTED AFTER FABRICATION	LITHONIA 2TLX2-20L-FW-A12-MVOLT-EZ1-LP840	EATON METALUX 22GR SERIES AS AN APPROVED EQUAL.	HUBBELL COLUMBIA LJT SERIES AS AN APPROVED EQUAL.	
W1	LED		277 V	4.5" X 48" STRAIGHT AND NARROW DIRECT/INDIRECT LED WALL MOUNT FIXTURE, EXTRUDED ALUMINUM HOUSING, 566.5 LUMENS / 7 WATTS PER FOOT UP AND DOWN, 85+ CRI, 4000K COLOR, SINGLE CIRCUIT, UNIVERSAL VOLTAGE, 0-10V DIMMING DRIVER AND SATIN LAY-IN LENS. FINISH TO BE SELECTED BY ARCHITECT.	EATON NEORAY S23-DI-W-1L40-SR-4-DD-U-SI-S93-XX	PRUDENTIAL P46-LED4-LO-LO-4'-XX-SAL-D1-SYM-SC-UNV-WM-XX-DM10	HUBBELL LITECONTROL 4L-W-ID-LPA-4-04-SOF-XX-40K-1055-D055-D01-1C-UNV-W1	WALL MOUNT WITH BOTTOM AT +12'-0" AFF.
W2	LED		277 V	4.5" X 48" STRAIGHT AND NARROW DIRECT/INDIRECT LED WALL MOUNT FIXTURE, EXTRUDED ALUMINUM HOUSING, 616 LUMENS / 9 WATTS PER FOOT UP AND DOWN, 85+ CRI, 4000K COLOR, SINGLE CIRCUIT, UNIVERSAL VOLTAGE, 0-10V DIMMING DRIVER AND SATIN LAY-IN LENS. FINISH TO BE SELECTED BY	EATON NEORAY S23-DI-W-2L40-SR-4-DD-U-SI-S93-XX	PRUDENTIAL P46-LED4-MO-MO-4'-XX-SAL-D1-SYM-SC-UNV-WM-XX-DM10	HUBBELL LITECONTROL 4L-W-1D-LP1-4-04-SOF-XX-40K-1065-D065-D01-1C-UNV-W1	WALL MOUNT WITH BOTTOM AT +12'-0" AFF.
X1	LED	1 W	277 V	VANDAL RESISTANT SINGLE FACE LED EXIT FIXTURE, RED LETTERS, POLYCARBONATE HOUSING, MATTE WHITE FINISH, UNIVERSAL MOUNTING ACCESSORIES. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY, UL LISTED FOR WET LOCATION. WHITE WIREGUARD.	KENALL #METSU-MW-R-DT-XAC-9500-WIREGUARD (WHITE)	EATON SURE-LITES UX61WH	NEWSTAR LIGHTING 620-SF-LED-UN-RW-WIREGUARD	CEILING, END OR WALL MOUNT AS REQUIRED. PROVIDE ARROWS AS SHOWN ON PLANS. FOR WALL MOUNTED EXITS, MOUNT 8'-0" AFF U.O.N.
X2	LED	1 W	277 V	ARCHITECTURAL LED EXIT FIXTURE, RED LETTERS, DIE-CAST ALUMINUM HOUSING, WHITE FINISH, UNIVERSAL MOUNTING ACCESSORIES. UL LISTED FOR DAMP LOCATION. CEILING, END OR WALL MOUNT AS REQUIRED. PROVIDE ARROWS AS SHOWN ON PLANS.	LITHONIA #LES-W-X-R-120/277	EATON SURE-LITES CX-6-X-WH	HUBBELL DUAL-LITE SE-X-R-W	CEILING, END OR WALL MOUNT AS REQUIRED. PROVIDE ARROWS AS SHOWN ON PLANS. FOR WALL MOUNTED EXITS, MOUNT 8'-0" AFF U.O.N.
X3A	LED	1 W	277 V	RECESSED ARCHITECTURAL EDGE LIT LED EXIT FIXTURE, RED LETTERS, CLEAR BACKGROUND, EXTRUDED ALUMINUM HOUSING WITH WHITE FINISH, SINGLE FACE. PROVIDE ARROWS AS SHOWN ON PLAN.	LITHONIA #EDGR-W-1-R	EATON SURE-LITES EU-R-6-0-R	HUBBELL DUAL-LITE LE-C-S-R-X-W-A	
X3B	LED	1 W	277 V	RECESSED ARCHITECTURAL EDGE LIT LED EXIT FIXTURE, RED LETTERS, CLEAR BACKGROUND, EXTRUDED ALUMINUM HOUSING WITH WHITE FINISH, SINGLE FACE. PROVIDE ARROWS AS SHOWN ON PLAN.	LITHONIA #EDGR-W-1-R	EATON SURE-LITES EU-R-6-O-R	HUBBELL DUAL-LITE LE-C-D-R-X-W-A	
Y1	LED	19 W	277 V	4" X 48" DIRECT/INDIRECT LINEAR PENDANT FIXTURE, 275 LUMENS / FT UP, 275 LUMENS / FT DOWN, 4000K COLOR, 80 CRI, UNIVERSAL VOLTAGE, 0-10V DIMMING DRIVER, EXTRUDED ALUMINUM HOUSING IN MATTE WHITE FINISH WITH FLUSH DIFFUSER UP AND DOWN.	FOCAL POINT FSM4BS-FLFL-275DN-275UP-4000K-1C-UNV-LD1-CXXWH-WH-XX	MARK ARCHITECTURAL LIGHTING SLOT 4 LED S4LID SERIES AS APPROVED EQUAL	HUBBELL LITECONTROL 4L-P-ID-STD-4-4-SOF-C1-40K-1030-D030-1C-UNV-FAX-W1	PENDANT MOUNT WITH BOTTOM AT +12'-0" AFF.
Z1	LED	15 W	120 V	ADJUSTABLE BEAM LED TRACK FIXTURE, 15W ADJUSTABLE BEAM, 3500K COLOR, DIMMING DRIVER WITH WHITE FINISH.	CONTECT LIGHTING CTL-844-35-D-P	LF ILLUMINATION TRA19B-J-13C-8035-M-D11-WW	BRUCK 250430-21LM-35K-90-120-ELV-WH-ECOWH	
Z1A	---		120 V	SINGLE CIRCUIT LINE VOLTAGE TRACK, 120V, WHITE FINISH, LEGTH AS SHOWN ON PLANS.	CONTECT LT-X-S	JUNO LIGHTING R SERIES TRACK	BRUCK ECO TRACK, WHITE	

Steel Cell Lighting Fixture Schedule

TYPE	LAMP	WATTAGE	VOLTAGE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURER AS APPROVED BY ENGINEER	EQUAL MANUFACTURER AS APPROVED BY ENGINEER	TYPE COMMENTS
M1A-SC	LED	50 W		12" X 48", IMPACT AND VANDAL RESISTANT FIXTURE, 45 WATT, 5000K, SURFACE CEILING MOUNT, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS HINGED LENS FRAME WITH WHITE POWDER COAT FINISH, 14 GUAGE STAINLESS STEEL HOUSING WITH WHITE POWDER COATE FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY. REMOVABLE GEAR TRAY. UL LISTED FOR WET LOCATION WITH LED NIGHT LIGHT.	KENALL SDSA-4-3/3-1-45L50K-DDC-1-DV-2/J-1-WL-DLN	EATON FAIL-SAFE AS AN APPROVED EQUAL.	NEWSTAR LIGHTING AS AN APPROVED EQUAL.	ALL JOINTS IN FIXTURE AND BETWEEN FIXTURE AND MOUNTING SURFACE SHALL BE FILLED COMPLETELY. FIXTURE TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST WHERE INDICATED ON PLANS.
M1N-SC	LED	50 W		12" X 48", IMPACT AND VANDAL RESISTANT FIXTURE, 45 WATT, 4000K, SURFACE CEILING MOUNT, 0.125" PRISMATIC POLYCARBONATE INNER LENS, 0.500" CLEAR POLYCARBONATE OUTER LENS, CONTINUOUS HINGED LENS FRAME WITH WHITE POWDER COAT FINISH, 14 GUAGE COLD ROLLED STEEL HOUSING WITH WHITE POWDER COATE FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY. REMOVABLE GEAR TRAY. UL LISTED FOR DAMP LOCATION, LED NIGHT LIGHT.	KENALL SDSA-4-0/0-1-45L40K-DDC-1-DV-2/J-1-DLN	EATON FAIL-SAFE AS AN APPROVED EQUAL.	NEWSTAR LIGHTING AS AN APPROVED EQUAL.	ALL JOINTS IN FIXTURE AND BETWEEN FIXTURE AND MOUNTING SURFACE SHALL BE FILLED COMPLETELY. FIXTURE TO BE SURFACE MOUNTED ON BOTTOM OF PRECAST WHERE INDICATED ON PLANS.

LIGHT FIXTURE SCHEDULE NOTES:

A. ALL LAY-IN FIXTURES TO HAVE EARTHQUAKE CLIPS AND BE SUPPORTED WITH SAFETY CHAIN, SEE SPECIFICATIONS.

B. ALL FIXTURES SHALL BE U.L. LISTED.

C. VERIFY WITH UTILITY AND APPLY FOR ANY REBATES AVAILABLE FOR THE USE OF LED LIGHTING ON PROJECT. REBATES TO BE GIVEN TO OWNER.

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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN L. HITCHCOCK
REGISTERED No. PE60018676
STATE OF INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: MHK,RDW
CHK'D: MLH
DESIGNED: MHK,RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

LIGHT FIXTURE SCHEDULES

DRAWING NUMBER
E-606
ELECTRICAL

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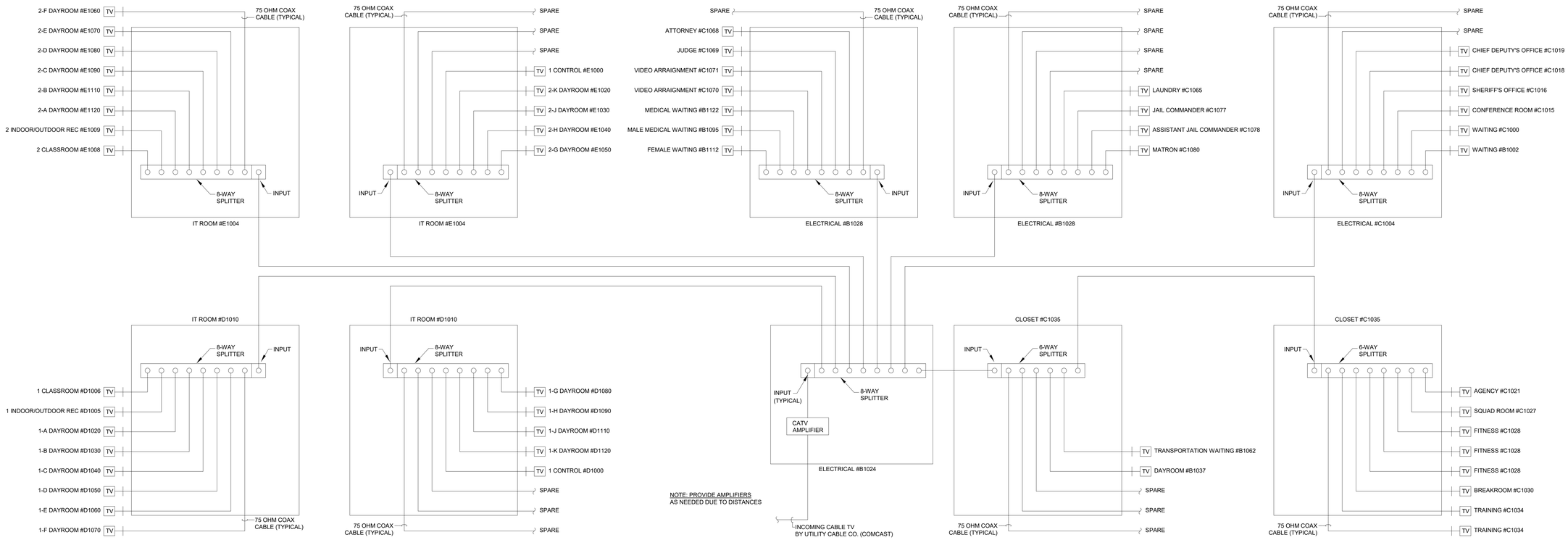

1 / E-607 **CATV RISER DIAGRAM**
SCALE: 1/4" = 1'-0"
NORTH

TRANSFORMER SCHEDULE

NO.	SIZE	RATING	LOCATION	MOUNTING	COMMENTS
TR-1A	75KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	MECHANICAL #C0153, UNIT C	ON CONCRETE EQUIPMENT / HOUSEKEEPING PAD	115 DEGREE RISE
TR-1C	45KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	ELECTRICAL #C1004, UNIT C	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +6'-10"	115 DEGREE RISE
TR-2A	45KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	ELECTRICAL #B1024, UNIT B	ON CONCRETE EQUIPMENT / HOUSEKEEPING PAD	115 DEGREE RISE
TR-2C	30KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	ELECTRICAL #B1028, UNIT B	ON CONCRETE EQUIPMENT / HOUSEKEEPING PAD	115 DEGREE RISE
TR-2D	30KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	ELECTRICAL #B1028, UNIT B	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE
TR-2E	15KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	JANITOR #B1108, UNIT B	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE
TR-3	30KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	VEHICLE SALLYPORT #A1000, UNIT A	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +9'-6"	115 DEGREE RISE
TR-4A	30KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	STORAGE #E1016B, UNITS D & E	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE
TR-4B	30KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	CHASE #E1014, UNIT E	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE
TR-5A	30KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	PENTHOUSE	ON CONCRETE EQUIPMENT / HOUSEKEEPING PAD	115 DEGREE RISE
TR-5B	30KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	CHASE #D1014, UNIT D	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE
TR-G1	25KVA	480V, 1-PHASE, 3-WIRE PRIMARY 240V/120V, 1-PHASE, 3-WIRE SECONDARY	MECHANICAL #C1053, UNIT C	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE
TR-G2	25KVA	480V, 1-PHASE, 3-WIRE PRIMARY 240V/120V, 1-PHASE, 3-WIRE SECONDARY	MECHANICAL #C1053, UNIT C	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE
TR-G3	25KVA	480V, 1-PHASE, 3-WIRE PRIMARY 240V/120V, 1-PHASE, 3-WIRE SECONDARY	MECHANICAL #C1053, UNIT C	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE
TR-K1	75KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	FACILITY WORKSHOP #C1056, UNIT C	ON CONCRETE EQUIPMENT / HOUSEKEEPING PAD	115 DEGREE RISE
TR-K2	30KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	FACILITY WORKSHOP #C1056, UNIT C	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE
TR-L1P	15KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	ELECTRICAL #C1054, UNIT C	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE
TR-L2P	15KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	ELECTRICAL #B2002, PENTHOUSE	ON CONCRETE EQUIPMENT / HOUSEKEEPING PAD	115 DEGREE RISE
TR-U1	45KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	ELECTRICAL #B1028, UNIT B	ON CONCRETE EQUIPMENT / HOUSEKEEPING PAD	115 DEGREE RISE, K13 FACTOR
TR-U2	45KVA	480V, 3-PHASE, 3-WIRE PRIMARY 208V/120V, 3-PHASE, 4-WIRE SECONDARY	ELECTRICAL #B1024, UNIT B	STRUCTURE/WALL, MOUNT WITH BOTTOM AT +8'-0"	115 DEGREE RISE, K13 FACTOR

NOTE: GROUND ALL TRANSFORMER TO BUILDING STEEL PER NEC ARTICLE 250, REFER TO DETAIL 6, SHEET E-803.
NOTE: PROVIDE UNISTRUT SUPPORT OR MANUFACTURER PROVIDED MOUNTING BRACKET FOR STRUCTURE/WALL MOUNTED TRANSFORMERS
NOTE: TRANSFORMERS 'TR-U1' AND 'TR-U2' TO HAVE DOUBLE LUGS ON NEUTRAL.
NOTE: ALL TRANSFORMERS TO BE DRY TYPE, NON-VENTILATED. MAINTAIN 4' OF CLEARANCE BEHIND TRANSFORMER FOR VENTILATION PER MANUFACTURER'S REQUIREMENTS.
NOTE: REFER TO SPECIFICATION 262213 FOR DETAILED EQUIPMENT REQUIREMENTS.

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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PE60019675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

CATV RISER DIAGRAM AND TRANSFORMER SCHEDULE

DRAWING NUMBER E-607
ELECTRICAL

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Switchboard: ODPA

Location: MECHANICAL C1053 **Volts:** 480/277 Wye **A.I.C. Rating:** 42k AIC
Supply From: MDPA **Phases:** 3 **Mains Type:** MCB
Mounting: Floor **Wires:** 4 **Mains Rating:** 1600 A
Enclosure: 1 **MCB Rating:** 1600 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	Panel 'E1PA' & 'E1PB' via Transformer 'TR-1A'	3	400 A	250 A	90992 VA	
2	Panel 'K1H' - Rm C1059	3	400 A	400 A	201772 VA	
3	Panel 'E2HA' - Rm B1024	3	225 A	200 A	89018 VA	
4	Panel 'E3H' - Rm A1003	3	225 A	200 A	81150 VA	
5						
6	Panel 'E1HA' - Rm C1053	3	225 A	200 A	63329 VA	
7	Panel 'E1HB' - Rm C1004	3	225 A	200 A	91590 VA	
8	Uniterruptible Power Supply 'UPS-1' via Tranformer 'TR-U1' - Rm B1024	3	125 A	70 A	32540 VA	
9	Uniterruptible Power Supply 'UPS-2' via Tranformer 'TR-U2' - Rm B1024	3	125 A	70 A	25710 VA	
10	Domestic Booster Pump 'DWBP-1' - Rm C1053	3	125 A	80 A	53184 VA	
11	Surge Protective Device 'SPD-DPOA' - Rm C1053	3	125 A	100 A	0 VA	
12						
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	710290 VA	
				Total Amps:	854 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	79425 VA	100.00%	79425 VA		
Lighting	25080 VA	100.00%	25080 VA	**Total Conn. Load:**	710290 VA
Motor	176988 VA	107.51%	190284 VA	**Total Est. Demand:**	581327 VA
Other	4160 VA	100.00%	4160 VA	**Total Conn. Current:**	854 A
Receptacle	167640 VA	52.98%	88820 VA	**Total Est. Demand Current:**	699 A
Cooling	37122 VA	100.00%	37122 VA		
Electric Clothes Dryer	9840 VA	100.00%	9840 VA		
Heating	5892 VA	100.00%	5892 VA		
Equipment	42000 VA	100.00%	42000 VA		
Kitchen Equipment - Non-Dwelling Unit	117844 VA	65.00%	76599 VA		
Misc.	22620 VA	100.00%	22620 VA		
Misc. Non-Continuous	22200 VA	0.01%	2 VA		

Notes:

Switchboard: ODPB

Location: MECHANICAL B2000 **Volts:** 480/277 Wye **A.I.C. Rating:** 42k AIC
Supply From: MDPA **Phases:** 3 **Mains Type:** MCB
Mounting: Floor **Wires:** 4 **Mains Rating:** 1200 A
Enclosure: 1 **MCB Rating:** 1200 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	Panel 'E5H' - Mechanical B2000 (Penthouse)	3	200 A	200 A	104973 VA	
2	Panel 'E2HB' - Electrical B1028 (First Floor)	3	200 A	200 A	102069 VA	
3	Panel 'E4H' - Storage E1016B (First Floor)	3	200 A	200 A	101212 VA	
4	Spare	3	200 A	0 A	0 VA	
5	AHU-2 Supply Fan - Mechanical B2000 (Penthouse)	3	125 A	100 A	61494 VA	
6	AHU-2 Return Fan - Mechanical B2000 (Penthouse)	3	125 A	30 A	19279 VA	
7	AHU-3 Supply Fan - Mechanical B2000 (Penthouse)	3	125 A	70 A	45290 VA	
8	AHU-3 Return Fan - Mechanical B2000 (Penthouse)	3	125 A	35 A	22271 VA	
9	AHU-1 Supply Fan - Mechanical B2000 (Penthouse)	3	125 A	125 A	55095 VA	
10	AHU-1 Return Fan - Mechanical B2000 (Penthouse)	3	125 A	70 A	28254 VA	
11	AHU-4 Supply Fan - Mechanical B2000 (Penthouse)	3	125 A	70 A	45290 VA	
12	AHU-4 Return Fan - Mechanical B2000 (Penthouse)	3	125 A	35 A	22271 VA	
13	Computer Room Unit 'CRAC-3' - Security B2001 (Penthouse)	3	125 A	30 A	16869 VA	
14	Spare	3	125 A	0 A	0 VA	
15	Future Housing Pod Panel 'E6H'	3	200 A	0 A	0 VA	
16	Future Housing Pod Panel 'E7H'	3	200 A	0 A	0 VA	
17						
18						
19						
20						
				Total Conn. Load:	624356 VA	
				Total Amps:	751 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	48671 VA	100.00%	48671 VA		
Lighting	53474 VA	100.00%	53474 VA	**Total Conn. Load:**	624356 VA
Motor	309372 VA	104.97%	324746 VA	**Total Est. Demand:**	587790 VA
Receptacle	106280 VA	54.70%	58140 VA	**Total Conn. Current:**	751 A
Cooling	67070 VA	100.00%	67070 VA	**Total Est. Demand Current:**	707 A
Electric Clothes Dryer	4800 VA	100.00%	4800 VA		
Heating	9000 VA	100.00%	9000 VA		
Equipment	10500 VA	100.00%	10500 VA		
Misc.	11444 VA	100.00%	11444 VA		
Misc. Non-Continuous	3800 VA	0.01%	0 VA		

Notes:

Branch Panel: DP-L

Location: ELECTRICAL C1054 **Volts:** 480/277 Wye **A.I.C. Rating:** 42k AIC
Supply From: MDPA **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 200 A
Enclosure: 1 **MCB Rating:** 200 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	EM Lighting - Mech C1053, Receiving, Kitchen	20 A	1	1004	3546					3	20 A	Dedicated Outdoor Air System 'DOAS-1' - on Roof	8
9	Lighting	20 A	1			608	3546			--	--	--	10
11	SPARE	20 A	1					0	3546	--	--	--	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	Panel 'L1P' via Transformer 'TR-L1P'	30 A	3	1000	853					3	100 A	Panel 'L1H' - Electrical B1024	20
21	--	--	--			1000	737			--	--	--	22
23	--	--	--					750	0	--	--	--	24
25	Panel 'L2H' - Electrical B2002 (Penthouse)	100 A	3	14958	0					3	60 A	Surge Protective Device 'SPD-DPL'	26
27	--	--	--			14365	0			--	--	--	28
29	--	--	--					13736	0	--	--	--	30
			Total Load:	21337 VA		20197 VA		18031 VA					
			Total Amps:	78 A		74 A		65 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	21274 VA	100.00%	21274 VA		
Lighting	5602 VA	100.00%	5602 VA	**Total Conn. Load:**	57311 VA
Motor	24024 VA	101.82%	24460 VA	**Total Est. Demand:**	57747 VA
Power	4032 VA	100.00%	4032 VA	**Total Conn. Current:**	69 A
Equipment	2000 VA	100.00%	2000 VA	**Total Est. Demand Current:**	69 A
Misc	500 VA	100.00%	500 VA		

Notes:

Branch Panel: L1H

Location: ELECTRICAL B1024 **Volts:** 480/277 Wye **A.I.C. Rating:** 10kA
Supply From: DP-L **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 125 A
Enclosure: 1

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	EM Lighting - Intake Center, Vehicle Sallyport	20 A	1	853	0					1	20 A	SPARE	8
9	EM Lighting - Medical Unit, Corridor B1025	20 A	1			737	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	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
			Total Load:	853 VA		737 VA		0 VA					
			Total Amps:	3 A		3 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1586 VA	100.00%	1586 VA		
				Total Conn. Load:	1586 VA
				Total Est. Demand:	1586 VA
				Total Conn. Current:	2 A
				Total Est. Demand Current:	2 A

Notes:

Branch Panel: L2H

Location: ELECTRICAL B2002 **Volts:** 480/277 Wye **A.I.C. Rating:** 10kA
Supply From: DP-L **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 125 A
Enclosure: 1

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	EM Lighting - Area D	20 A	1	1213	582					3	20 A	Smoke Exhaust Fan 'SEF-1-1' - Roof	8
9	EM Lighting - Area E	20 A	1			1039	582			--	--	--	10
11	Lighting MECHANICAL B2000	20 A	1					160	582	--	--	--	12
13	Smoke Exhaust Fan 'SEF-1-6' - Roof	20 A	3	443	443					3	20 A	Smoke Exhaust Fan 'SEF-1-2' - Roof	14
15	--	--	--			443	443			--	--	--	16
17	--	--	--					443	443	--	--	--	18
19	Smoke Exhaust Fan 'SEF-1-5' - Roof	20 A	3	582	443					3	20 A	Smoke Exhaust Fan 'SEF-1-4' - Roof	20
21	--	--	--			582	443			--	--	--	22
23	--	--	--					582	443	--	--	--	24
25	Smoke Exhaust Fan 'SEF-2-1' - Roof	20 A	3	582	443					3	20 A	Smoke Exhaust Fan 'SEF-2-6' - Roof	26
27	--	--	--			582	443			--	--	--	28
29	--	--	--					582	443	--	--	--	30
31	Smoke Exhaust Fan 'SEF-2-2' - Roof	20 A	3	443	582					3	20 A	Smoke Exhaust Fan 'SEF-2-5' - Roof	32
33	--	--	--			443	582			--	--	--	34
35	--	--	--					443	582	--	--	--	36
37	Smoke Exhaust Fan 'SEF-2-4' - Roof	20 A	3	443	443					3	20 A	Smoke Exhaust Fan 'SEF-6C' - Roof	38
39	--	--	--			443	443			--	--	--	40
41	--	--	--					443	443	--	--	--	42
43	Smoke Exhaust Fan 'SEF-3' - Roof	20 A	3	443	443					3	20 A	Smoke Exhaust Fan 'SEF-6B' - Roof	44
45	--	--	--			443	443			--	--	--	46
47	--	--	--					443	443	--	--	--	48
49	Dedicated Outdoor Air System 'DOAS-2' - on Roof	20 A	3	3546	443					3	20 A	Smoke Exhaust Fan 'SEF-6A' - Roof	50
51	--	--	--			3546	443			--	--	--	52
53	--	--	--					3546	443	--	--	--	54
55	SPARE	20 A	1	0	0					1	20 A	SPARE	56
57	SPARE	20 A	1			0	0			1	20 A	SPARE	58
59	SPARE	20 A	1					0	0	1	20 A	SPARE	60
61	SPACE	--	--	0	0					--	--	SPACE	62
63	SPACE	--	--			0	0			--	--	SPACE	64
65	SPACE	--	--					0	0	--	--	SPACE	66
67	Panel 'L2P' via Transformer 'TR-L2P'	30 A	3	3462	0					--	--	SPACE	68
69	--	--	--			3044	0			--	--	SPACE	70
71	--	--	--					3270	0	--	--	SPACE	72
			Total Load:	14958 VA		14365 VA		13736 VA					
			Total Amps:	54 A		52 A		50 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10637 VA	100.00%	10637 VA		
Lighting	2408 VA	100.00%	2408 VA	**Total Conn. Load:**	42058 VA
Motor	24024 VA	101.82%	24460 VA	**Total Est. Demand:**	42494 VA
Power	4032 VA	100.00%	4032 VA	**Total Conn. Current:**	51 A
Equipment	500 VA	100.00%	500 VA	**Total Est. Demand Current:**	51 A
Misc	500 VA	100.00%	500 VA		

Notes:

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PROFESSIONAL ENGINEER

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DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PANELBOARD SCHEDULES

DRAWING NUMBER
E-701
ELECTRICAL

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9/4/2019 3:55:47 PM

Branch Panel: E1HA

Location:	MECHANICAL C1053	Volts:	480/277 Wye	A.I.C. Rating:	42k AIC
Supply From:	ODPA	Phases:	3	Mains Type:	MLO
Mounting:	Surface	Wires:	4	Mains Rating:	250 A
Enclosure:	1				

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Fan Powered VAV Box 'FPV-1-15' - Rm C1031	20 A	1	2715	0					--	--	SPACE	8
9	Lighting - Mech C1053, Receiving	20 A	1			2842	0			--	--	SPACE	10
11	SPARE	20 A	1					0	0	--	--	SPACE	12
13	Exhaust Fan 'EF-8' - Rm C1056B	20 A	3	651	498					3	20 A	Hot Water Recirc Pump 'HWRP-1' - Rm C1053	14
15	--	--	--			651	498			--	--	--	16
17	--	--	--					651	498	--	--	--	18
19	Door Air Curtain 'DAC-1' - Rm C1052	20 A	3	1773	498					3	20 A	Hot Water Recirc Pump 'HWRP-2' - Rm C1053	20
21	--	--	--			1773	498			--	--	--	22
23	--	--	--					1773	498	--	--	--	24
25	Future Cold Water Pump 'CWP-FTR' - Rm C1053	30 A	3	0	0					3	20 A	Future Hot Water Pump 'HWP-FTR' - Rm C1053	26
27	--	--	--			0	0			--	--	--	28
29	--	--	--					0	0	--	--	--	30
31	Cold Water Pump 'CWP-1' - Rm C1053	30 A	3	5817	2105					3	20 A	Hot Water Pump 'HWP-1' - Rm C1053	32
33	--	--	--			5817	2105			--	--	--	34
35	--	--	--					5817	2105	--	--	--	36
37	Cold Water Pump 'CWP-2' - Rm C1053	30 A	3	5817	2105					3	20 A	Hot Water Pump 'HWP-2' - Rm C1053	38
39	--	--	--			5817	2105			--	--	--	40
41	--	--	--					5817	2105	--	--	--	42
			Total Load:	21979 VA		22087 VA		19264 VA					
			Total Amps:	81 A		81 A		70 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	8033 VA	100.00%	8033 VA		
Lighting	2842 VA	100.00%	2842 VA	Total Conn. Load:	63329 VA
Motor	52475 VA	108.31%	56838 VA	Total Est. Demand:	67692 VA
Other	0 VA	0.00%	0 VA	Total Conn. Current:	76 A
				Total Est. Demand Current:	81 A

Notes:

Branch Panel: E1PA

Location:	MECHANICAL C1053	Volts:	120/208 Wye	A.I.C. Rating:	10k AIC
Supply From:	TR-1A	Phases:	3	Mains Type:	MCB
Mounting:	Surface	Wires:	4	Mains Rating:	400 A
Enclosure:	1			MCB Rating:	250 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Recepts - Rms C1032 & C1033	20 A	1	1080	1080					1	20 A	Floor Box Recepts- Rm C1034	8
9	Hand Dryer - Rm C1032	20 A	1			1500	900			1	20 A	Floor Box & Recepts- Rm C1034	10
11	Hand Dryer - Rm C1032	20 A	1					1500	1080	1	20 A	Floor Box Recepts- Rm C1034	12
13	Hand Dryer - Rm C1033	20 A	1	1500	900					1	20 A	Floor Box & Recepts- Rm C1034	14
15	Hand Dryer - Rm C1033	20 A	1			1500	1080			1	20 A	Floor Box Recepts- Rm C1034	16
17	Auto. Flush Valves - Rms C1032 & C1033	20 A	1					1200	1080	1	20 A	Floor Box & Recepts- Rm C1034	18
19	Elec. Water Cooler 'EWC-1' - Rm C1031	20 A	1	700	1080					1	20 A	Floor Box Recepts- Rm C1034	20
21	Recepts - Rms C1031, C1036 & Exterior	20 A	1			900	900			1	20 A	Floor Box & Recepts- Rm C1034	22
23	Recepts - Rms C1023C, C1030, C1031 & C1035	20 A	1					720	1080	1	20 A	Floor Box Recepts- Rm C1034	24
25	Garbage Disposal 'WD-1' - Rm C1030	20 A	1	1656	900					1	20 A	Floor Box & Recepts- Rm C1034	26
27	Refrig - Rm C1030	20 A	1			1000	720			1	20 A	Receptacle TRAINING ROOM C1034	28
29	Micro - Rm C1030	20 A	1					1200	900	1	20 A	Receptacle TRAINING ROOM C1034	30
31	Recepts - Rm C1029	20 A	1	900	360					1	20 A	Recepts - Rm C1030	32
33	Recepts - Rms C1027 & C1029	20 A	1			1080	900			1	20 A	Recepts - Rm C1030 & Exterior	34
35	Recepts - Rms C1027	20 A	1					1080	900	1	20 A	Recepts - Rm C1030 & Exterior	36
37	Recepts - Rms C1027	20 A	1	1080	1080					1	20 A	Recepts - Rm C1028	38
39	Recepts - Rms C1027	20 A	1			900	1080			1	20 A	Recepts - Rm C1028	40
41	Recepts - Rms C1027	20 A	1					900	1080	1	20 A	Recepts - Rm C1028 & Exterior	42
43	SPARE	20 A	1	0	900					1	20 A	Recepts - Rm C1023C & C1028	44
45	SPARE	20 A	1			0	876			1	20 A	Exhaust Fan 'EF-1' - on Roof	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	Panel 'E1PB'	200 A	3	18064	0					3	60 A	Surge Protective Deivce 'SPD-E1PA'	50
51	--	--	--			15996	0			--	--	--	52
53	--	--	--					17660	0	--	--	--	54
			Total Load:	31280 VA		29332 VA		30380 VA					
			Total Amps:	262 A		244 A		255 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	11200 VA	100.00%	11200 VA		
Motor	9704 VA	110.72%	10744 VA	Total Conn. Load:	90992 VA
Other	4160 VA	100.00%	4160 VA	Total Est. Demand:	65643 VA
Receptacle	48380 VA	60.33%	29190 VA	Total Conn. Current:	253 A
Heating	528 VA	100.00%	528 VA	Total Est. Demand Current:	182 A
Misc.	9820 VA	100.00%	9820 VA		
Misc. Non-Continuous	7200 VA	0.01%	1 VA		

Notes:

Branch Panel: E1PB

Location:	MECHANICAL C1053	Volts:	120/208 Wye	A.I.C. Rating:	10k AIC
Supply From:	E1PA	Phases:	3	Mains Type:	MLO
Mounting:	Surface	Wires:	4	Mains Rating:	250 A
Enclosure:	1				

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Portable Welder - Rm C1056B	30 A	2	0	900					1	20 A	Recepts - Rms C1047, C1051	8
9	--	--	--			0	1260			1	20 A	Recepts - Rm C1047C	10
11	Recepts - Rms C1056, C1056B & C1057	20 A	1					1080	1080	1	20 A	Recepts - Rm C1047	12
13	Recepts - Rm C1056	20 A	1	900	1000					1	20 A	Refrig - Rm C1047	14
15	Air Compressor Recept - Rm C1056	20 A	1			1000	1000			1	20 A	Refrig - Rm C1047	16
17	Recepts - Rms C1049 & C1057	20 A	1					900	1000	1	20 A	Refrig - Rm C1047	18
19	Recepts - Rm C1049	20 A	1	900	1000					1	20 A	Refrig - Rm C1047	20
21	Refrig - Rm C1049	20 A	1			1000	1080			1	20 A	Recepts - Rms C1045, C1047 & C1085	22
23	Recepts - Rms C1049, C1050 & C1052A	20 A	1					900	720	1	20 A	Recepts - Rms C1047 & C1052A	24
25	Recepts - Rm C1055	20 A	1	1260	840					1	20 A	Fume Hood - Rm C1047	26
27	Hot Water Unit Heater 'HUH-2' - Rm C1052	20 A	1			264	1080			1	20 A	Floor Boxes - Rm C1047	28
29	Recepts - Rm C1052 & Exterior	20 A	1					1080	720	1	20 A	Recepts - Rms C1047 & C1052A	30
31	Hot Water Unit Heater 'HUH-1' - Rm C1052	20 A	1	264	900					1	20 A	Recepts - Rms C1052A, C1054 & C1082	32
33	Water Softener 'WS-1' and Recepts - Rm C1053	20 A	1			900	960			1	20 A	Chiller 'CH-1 Receptacles - Exterior	34
35	Gas Water Heater 'WH-1' - Rm C1053	20 A	1					1080	960	1	20 A	Chiller 'CH-2' Receptacles - Exterior	36
37	Gas Water Heater 'WH-2' - Rm C1053	20 A	1	1080	0					1	20 A	Remote Evaporator 'REV-1' - Rm C1053	38
39	Gas Water Heater 'WH-3' - Rm C1053	20 A	1			1080	0			1	20 A	Remote Evaporator 'REV-2' - Rm C1053	40
41	Future Gas Water Hater 'WH-FTR' - Rm C1053	20 A	1					0	0	1	20 A	Future Remote Evaporator 'REV-FTR' - Rm C1053	42
43	Mixing Valve and Recepts - Rm C1053	20 A	1	900	372					1	20 A	Fan Coil Unit 'FCU-14' - Rm C1053	44
45	Recept & Trap Primer 'TP-1' - Rm C1053	20 A	1			548	372			1	20 A	Fan Coil Unit 'FCU-13' - Rm C1053	46
47	Recepts - Rm C1053	20 A	1					540	548	1	20 A	Recepts & Trap Primer 'TP-2' - Rm C1053	48
49	Exhaust Fan 'EF-4' - on Roof	20 A	1	492	696					1	20 A	Exhaust Fan 'EF-9' - on Roof	50
51	Exhaust Fan 'EF-7' - on Roof	20 A	1			1356	696			1	20 A	Exhaust Fan 'EF-10' - on Roof	52
53	Exhaust Fan 'EF-2' - on Roof	20 A	1					492	2080	2	30 A	Reverse Osmosis Smart Guard 'RO-1' - Rm C1053	54
55	Future Boiler 'B-FTR' - Rm C1053	20 A	3	0	2080					--	--	--	56
57	--	--	--			0	1000			1	20 A	RO Backwashing Tank/Head - Rm C1053	58
59	--	--	--					0	2080	2	30 A	Station Battery Charger - Rm C1053	60
61	Boiler 'B-1' - Rm C1053	20 A	3	1200	2080					--	--	--	62
63	--	--	--			1200	0			1	20 A	SPARE	64
65	--	--	--					1200	0	1	20 A	SPARE	66
67	Boiler 'B-2' - Rm C1053	20 A	3	1200	0					3	60 A	Surge Protective Device 'SPD-E1PB'	68
69	--	--	--			1200	0			--	--	--	70
71	--	--	--					1200	0	--	--	--	72
			Total Load:	18064 VA		15996 VA		17660 VA					
			Total Amps:	153 A		133 A		149 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	11200 VA	100.00%	11200 VA		
Motor	7352 VA	114.15%	8392 VA	Total Conn. Load:	51720 VA
Other	4160 VA	100.00%	4160 VA	Total Est. Demand:	46980 VA
Receptacle	21560 VA	73.19%	15780 VA	Total Conn. Current:	144 A
Heating	528 VA	100.00%	528 VA	Total Est. Demand Current:	130 A
Misc.	6920 VA	100.00%	6920 VA		

Notes:

Branch Panel: E1HB

Location:		Volts:	480/277 Wye	A.I.C. Rating:	42k AIC
Supply From:	ODPA	Phases:	3	Mains Type:	MLO
Mounting:	Surface	Wires:	4	Mains Rating:	250 A
Enclosure:	1				

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Fan Powered VAV Box 'FPV-1-02' - Rm B1001	20 A	1	2715	0					--	--	SPACE	8
9	Lighting - Area C North Offices	20 A	1			3106	0			--	--	SPACE	10
11	Lighting - Training Room C1034	20 A	1					4032	0	--	--	SPACE	12
13	Lighting - Fitness C1028, Area C Central	20 A	1	2824	0					--	--	SPACE	14
15	Lighting - Area C West	20 A	1			1979	0			--	--	SPACE	16
17	SPARE	20 A	1					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	25756					3	70 A	Panels 'E1PC' & 'E1PD' via Transformer 'TR-1B'	26
27	SPACE	--	--			0	26015			--	--	--	28
29	SPACE	--	--					0	25507	--	--	--	30
			Total Load:	31172 VA		30898 VA		29539 VA					
			Total Amps:	113 A		112 A		107 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3298 VA	100.00%	3298 VA		
Lighting	11762 VA	100.00%	11762 VA	Total Conn. Load:	91590 VA
Motor	1104 VA	117.93%	1302 VA	Total Est. Demand:	60579 VA
Other	0 VA	0.00%	0 VA	Total Conn. Current:	110 A
Receptacle	55260 VA	59.05%	32630 VA	Total Est. Demand Current:	73 A
Cooling	1830 VA	100.00%	1830 VA		
Misc.	10000 VA	100.00%	10000 VA		
Misc. Non-Continuous	8600 VA	0.01%	1 VA		

Notes:

Branch Panel: E1PC

Location:		Volts:	120/208 Wye	A.I.C. Rating:	10k AIC
Supply From:	TR-1C	Phases:	3	Mains Type:	MCB
Mounting:	Surface	Wires:	4	Mains Rating:	250 A
Enclosure:	1			MCB Rating:	175 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Recepts - Rms C1004 & C1005	20 A	1	900	1000					1	20 A	Kiosk - Rm B1000	8
9	Recepts - Rm C1001	20 A	1			900	1000			1	20 A	Kiosk - Rm B1000	10
11	Recepts - Rms C1000 & C1001	20 A	1					900	1000	1	20 A	Kiosk - Rm B1000	12
13	Recepts - Rms C1001 & C1002	20 A	1	900	1000					1	20 A	Kiosk - Rm B1000	14
15	Receptacle SEX OFFENDER AND EVICTION...	20 A	1			540	720			1	20 A	Recepts - Rms B1000, B1001 & Exterior	16
17	Recepts - Rms C1044 & C1045	20 A	1					540	1080	1	20 A	Recepts - Rms B1003	18
19	Recepts - Rm C1002	20 A	1	900	1080					1	20 A	Recepts - Rms B1003	20
21	Recepts - Rm B1001 & B1017	20 A	1			1000	1080			1	20 A	Recepts - Rms B1003, B1004 & B1005	22
23	Hand Dryer - Rm B1017	20 A	1					1500	900	1	20 A	Recepts - Rm B1002 & B1006	24
25	Recepts - Rms B1001 & B1013	20 A	1	900	700					1	20 A	Elec. Water Cooler 'EWC-1' - Rm B1002	26
27	Recepts - Rms B1010, B1011 & B1012	20 A	1			1080	1000			1	20 A	*,Vending Machine - Rm B1002	28
29	Recepts - Rms B1008 & B1009	20 A	1					900	1000	1	20 A	*,Vending Machine - Rm B1002	30
31	Recept - Rm B1007 and Flush Valves	20 A	1	1160	915					2	30 A	Air Cooled Cond. Unit 'ACC-C' - on Roof	32
33	Hand Dryer - Rm B1008	20 A	1			1500	915			--	--	--	34
35	Hand Dryer - Rm B1008	20 A	1					1500	312	1	20 A	Exhaust Fan 'EF-5' - on Roof	36
37	Hand Dryer - Rm B1009	20 A	1	1500	225					1	20 A	Track Lighting Corridor C1031	38
39	Hand Dryer - Rm B1009	20 A	1			1500	0			1	20 A	SPARE	40
41	Auto Doors - Doors 'B100B' & 'B1000D'	20 A	1					792	0	1	20 A	SPARE	42
43	SPARE	20 A	1	0	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	Panel 'E1PD'	200 A	3	14800	0					3	60 A	Surge Protective Deivce 'SPD-E1PC'	50
51	--	--	--			14780	0			--	--	--	52
53	--	--	--					15083	0	--	--	--	54
			Total Load:	25756 VA		26015 VA		25507 VA					
			Total Amps:	215 A		217 A		213 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	583 VA	100.00%	583 VA		
Lighting	225 VA	100.00%	225 VA	Total Conn. Load:	77277 VA
Motor	1104 VA	117.93%	1302 VA	Total Est. Demand:	46346 VA
Other	0 VA	0.00%	0 VA	Total Conn. Current:	215 A
Receptacle	55260 VA	59.05%	32630 VA	Total Est. Demand Current:	129 A
Cooling	1830 VA	100.00%	1830 VA		
Misc.	10000 VA	100.00%	10000 VA		
Misc. Non-Continuous	8500 VA	0.01%	1 VA		

Notes:
* - PROVIDE GROUND FAULT CURRENT INTERRUPTING (GFCI) BREAKER

Branch Panel: E1PD

Location:		Volts:	120/208 Wye	A.I.C. Rating:	10k AIC
Supply From:	E1PC	Phases:	3	Mains Type:	MLO
Mounting:	Surface	Wires:	4	Mains Rating:	250 A
Enclosure:	1				

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Recepts - Rm C1043	20 A	1	900	900					1	20 A	Recepts - Rm B1001 & C1000	8
9	Recepts - Rm C1006, C1037 & C1043	20 A	1			720	900			1	20 A	Recepts - Rm B1001 & C1000	10
11	Recepts - C1006 & C1037	20 A	1					900	1080	1	20 A	Recepts - Rm C1014	12
13	Recepts - C1003 & C1007	20 A	1	900	720					1	20 A	Recepts - Rms C1003 & C1014	14
15	Recepts - Rms C1003, C1007 & C1039	20 A	1			720	900			1	20 A	Recepts - Rms C1009 & C1014	16
17	Recepts - Rms C1009 & C1012	20 A	1					1080	900	1	20 A	Recepts - Rm C1014	18
19	Recepts - C1008 & C1038	20 A	1	1080	900					1	20 A	Receptacle WORK ROOM C1013	20
21	Refrig - Rm C1008A	20 A	1			1000	900			1	20 A	Receptacle WORK ROOM C1013	22
23	Recepts - Rms C1008A, C1023B, C1024 & C1033	20 A	1					900	1000	1	20 A	Copier - Rm C1013	24
25	Recepts - Rms C1025 & C1026	20 A	1	1020	1000					1	20 A	Refrig - Rm C1015	26
27	Recepts - Rm C1022	20 A	1			1080	1260			1	20 A	Recepts - Rm C1015	28
29	Recepts - Rm C1022	20 A	1					1080	1080	1	20 A	Recepts - Rm C1015	30
31	Recepts - Rm C1022	20 A	1	1080	900					1	20 A	Recepts - Rms C1016	32
33	Recepts - C1009 & C1022	20 A	1			900	1000			1	20 A	Recepts - Rms C1016 & C1017	34
35	Recepts - Rm C1021	20 A	1					1080	900	1	20 A	Recepts - Rms C1016	36
37	Recepts - Rm C1021	20 A	1	1080	1260					1	20 A	Recepts - Rms C1010 & C1018	38
39	Recepts - Rm C1021	20 A	1			1080	1260			1	20 A	Recepts - Rms C1018 & C1010	40
41	Recepts - Rms C1020 & C1021	20 A	1					1080	1260	1	20 A	Floor Box & Recepts - Rm C1040	42
43	Recepts - Rm C1020	20 A	1	1080	1080					1	20 A	Floor Box Recepts - Rm C1040	44
45	Recepts - Rm C1019	20 A	1			720	1080			1	20 A	Floor Box Recepts - Rm C1040	46
47	Recepts - Rms C1009 & C1019	20 A	1					1080	1080	1	20 A	Recepts - Rms C1040 & C1054	48
49	Surge Protective Device 'SPD-E1PD'	60 A	3	0	900					1	20 A	Recepts - Rms C1040 & C1041	50
51	--	--	--			0	1260			1	20 A	Recepts - Rm C1048	52
53	--	--	--					0	583	1	20 A	Fan Coil Unit 'FCU-15' - Rm B1000	54
			Total Load:	14800 VA		14780 VA		15083 VA					
			Total Amps:	123 A		123 A		126 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	583 VA	100.00%	583 VA		
Receptacle	40680 VA	62.29%	25340 VA	Total Conn. Load:	44663 VA
Misc.	2400 VA	100.00%	2400 VA	Total Est. Demand:	28323 VA
Misc. Non-Continuous	1000 VA	0.01%	0 VA	Total Conn. Current:	124 A
				Total Est. Demand Current:	79 A

Notes:

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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PANELBOARD SCHEDULES

DRAWING NUMBER
E-702
ELECTRICAL

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9/4/2019 3:55:50 PM

Branch Panel: E2HA

Location: ELECTRICAL B1024 **Volts:** 480/277 Wye **A.I.C. Rating:** 42k AIC
Supply From: ODPA **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 250 A
Enclosure: 1

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Fan Powered Box 'FPV-2-04' - Rm B1029	20 A	1	886	637					1	20 A	Fan Powered Box 'FPV-2-07' - Rm B1053	8
9	Fan Powered Box 'FPV-2-03' - Rm B1053	20 A	1			895	637			1	20 A	Fan Powered Box 'FPV-2-02'- Rm B1061	10
11	Fan Powered Box 'FPV-2-08' - Cell B1044	20 A	1					637	2909	1	20 A	Air Cooled Condensing Unit 'ACC-2' - on Roof	12
13	Computer Room Unit 'CRAC-2' - Rm C1046	20 A	1	4543	1447					1	20 A	Lighting - Intake Center, Dayroom B1037	14
15	Lighting - Pretrial Offices, Transp, Detox, Testing	20 A	1			2353	1280			1	20 A	Lighting - Lobby, Visit., Mast. Cntrl., Main Corridor	16
17	Lighting - Intake Center Cells	20 A	1					1350	0	1	20 A	SPARE	18
19	Air Cooled Condensing Unit 'ACC-4' - on Roof	20 A	3	2853	0					--	--	SPACE	20
21	--	--	--			2853	0			--	--	SPACE	22
23	--	--	--					2853	0	--	--	SPACE	24
25	Computer Room Unit 'CRAC-1' - Rm B1060	30 A	3	5817	0					--	--	SPACE	26
27	--	--	--			5817	0			--	--	SPACE	28
29	--	--	--					5817	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	15747					3	70 A	Panels 'E2PA' & 'E2PB' via Transformer 'TR-2A'	38
39	SPACE	--	--			0	16147			--	--	--	40
41	SPACE	--	--					0	13748	--	--	--	42
		Total Load:		31820 VA		29890 VA		27314 VA					
		Total Amps:		116 A		109 A		99 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3692 VA	100.00%	3692 VA		
Lighting	6373 VA	100.00%	6373 VA	**Total Conn. Load:**	89018 VA
Motor	2772 VA	103.57%	2871 VA	**Total Est. Demand:**	72500 VA
Other	0 VA	0.00%	0 VA	**Total Conn. Current:**	107 A
Receptacle	30440 VA	66.43%	20220 VA	**Total Est. Demand Current:**	87 A
Cooling	35292 VA	100.00%	35292 VA		
Heating	1500 VA	100.00%	1500 VA		
Misc.	2700 VA	100.00%	2700 VA		
Misc. Non-Continuous	6400 VA	0.01%	1 VA		

Notes:

Branch Panel: E2PA

Location: ELECTRICAL B1024 **Volts:** 120/208 Wye **A.I.C. Rating:** 10k AIC
Supply From: TR-2A... **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 250 A
Enclosure: 1 **MCB Rating:** 175 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Recepts - Rms B1024 & B1025	20 A	1	900	900					1	20 A	Recepts - Rms B1084, B1085 & Exterior	8
9	Recepts - Rms B1029 & B1031	20 A	1			820	900			1	20 A	Recepts - Rm B1053 (Chases)	10
11	Recepts - Rms B1026 & B1027	20 A	1					740	1120	1	20 A	Recepts - Rms B1075 & B1076	12
13	Sliding Door 'B1029'	20 A	1	396	1000					1	20 A	Refrig- Rm B1074	14
15	Recepts - Rms B1037 & B1038	20 A	1			540	1200			1	20 A	Micro- Rm B1074	16
17	Recepts - Rm B1038	20 A	1					360	1000	1	20 A	Copier - Rm B1074	18
19	Body Scanner - Rm B1035	20 A	1	1100	720					1	20 A	Recepts - Rm B1074	20
21	Recepts - Rm B1035	20 A	1			720	1260			1	20 A	Recepts - Rm B1073	22
23	Sliding Door 'B1015B'	20 A	1					396	1260	1	20 A	Recepts - Rm B1072	24
25	Sliding Door 'B1019'	20 A	1	396	1260					1	20 A	Recepts - Rm B1071	26
27	Sliding Door 'B1018'	20 A	1			396	1260			1	20 A	Recepts - Rm B1070	28
29	Sliding Door 'B1015A'	20 A	1					396	900	1	20 A	Recepts - Rm B1062, B1067, B1068 & B1069	30
31	Recepts - Rm B1015 & B1019	20 A	1	720	915					2	30 A	Air Cooled Cond. Unit 'ACC-A' - on Roof	32
33	Recepts - Rm B1018	20 A	1			540	915			--	--	--	34
35	SPARE	20 A	1					0	0	1	20 A	Area B - Cell Valve Controllers	36
37	Panel 'E2PB'	200 A	3	7440	0					3	60 A	Surge Protective Device 'SPD-E2PA'	38
39	--	--	--			7596	0			--	--	--	40
41	--	--	--					7576	0	--	--	--	42
		Total Load:		15747 VA		16147 VA		13748 VA					
		Total Amps:		134 A		137 A		115 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	2772 VA	103.57%	2871 VA		
Receptacle	30440 VA	66.43%	20220 VA	**Total Conn. Load:**	45642 VA
Cooling	1830 VA	100.00%	1830 VA	**Total Est. Demand:**	29122 VA
Heating	1500 VA	100.00%	1500 VA	**Total Conn. Current:**	127 A
Misc.	2700 VA	100.00%	2700 VA	**Total Est. Demand Current:**	81 A
Misc. Non-Continuous	6400 VA	0.01%	1 VA		

Notes:

Branch Panel: E2PB

Location: ELECTRICAL B1024 **Volts:** 120/208 Wye **A.I.C. Rating:** 10k AIC
Supply From: E2PA **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 250 A
Enclosure: 1

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Recepts - Rm B1053A	20 A	1	540	540					1	20 A	Recepts - Rm B1053A	8
9	Recepts - Rm B1053A	20 A	1			720	540			1	20 A	Recepts - Rm B1053A	10
11	Recepts - Rm B1053A	20 A	1					540	540	1	20 A	Recepts - Rm B1053A	12
13	Recepts - Rm B1053A	20 A	1	540	540					1	20 A	Recepts - Rm B1053A	14
15	Recepts - Rm B1053A	20 A	1			540	540			1	20 A	Recepts - Rm B1053A	16
17	Recepts - Rm B1053	20 A	1					900	900	1	20 A	Recepts - Rm B1053	18
19	Recepts - Rm B1053	20 A	1	1080	1080					1	20 A	Recepts - Rms B1055 & B1058	20
21	Recepts - Rms B1062 & B1063	20 A	1			720	396			1	20 A	Sliding Door 'B1055B'	22
23	Sliding Door 'B1063B'	20 A	1					396	1080	1	20 A	Recepts - Rms B1055 & B1057	24
25	Recepts - Rms B1135 & B1064	20 A	1	720	900					1	20 A	Recepts - Rm B1056	26
27	Recepts - Rm B1064	20 A	1			720	720			1	20 A	Recepts - Rms B1055 & B1060	28
29	Elec. Wall Heater 'EWH-2' - Rm B1063	20 A	1					1500	720	1	20 A	Recepts - Rm B1060	30
31	Area B - Cell Valve Controllers	20 A	1	0	1500					1	20 A	Hand Dryer - Rm B1066	32
33	Micro - Rm B1016	20 A	1			1200	1500			1	20 A	Hand Dryer - Rm B1065	34
35	Refrig - Rm B1016	20 A	1					1000	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					3	60 A	Surge Protective Device 'SPD-E2PB'	38
39	SPARE	20 A	1			0	0			--	--	--	40
41	SPARE	20 A	1					0	0	--	--	--	42
		Total Load:		7440 VA		7596 VA		7576 VA					
		Total Amps:		62 A		63 A		63 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	792 VA	112.50%	891 VA		
Receptacle	15120 VA	83.07%	12560 VA	**Total Conn. Load:**	22612 VA
Heating	1500 VA	100.00%	1500 VA	**Total Est. Demand:**	15951 VA
Misc.	1000 VA	100.00%	1000 VA	**Total Conn. Current:**	63 A
Misc. Non-Continuous	4200 VA	0.01%	0 VA	**Total Est. Demand Current:**	44 A

Notes:

Branch Panel: E2HB

Location: ELECTRICAL B1028 **Volts:** 480/277 Wye **A.I.C. Rating:** 42k AIC
Supply From: ODPB **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 250 A
Enclosure: 1

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Fan Powered VAV Box 'FPV-2-12' - Rm B1121	20 A	1	609	5014					3	30 A	Air Cooled Condensing Unit 'ACC-3' - on Roof	8
9	Fan Powered VAV Box 'FPV-2-09' - Cell B1118	20 A	1			609	5014			--	--	--	10
11	Lighting - Medical Services, Medical Dayrooms	20 A	1					2394	5014	--	--	--	12
13	Lighting - Medical Center Cells	20 A	1	850	5817					3	30 A	Computer Room Unit 'CRAC-1' - Rm C1079	14
15	Lighting - Medical Records, Inmate Storage,...	20 A	1			1366	5817			--	--	--	16
17	SPARE	20 A	1					0	5817	--	--	--	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
31	SPACE	--	--	0	3960					3	30 A	Panel 'E2PE' via Transformer 'TR-2E'	32
33	SPACE	--	--			0	2916			--	--	--	34
35	SPACE	--	--					0	3096	--	--	--	36
37	Panels 'E2PC' via Transformer 'TR-2C'	50 A	3	9508	8076					3	50 A	Panels 'E2PD' via Transformer 'TR-2D'	38
39	--	--	--			10448	7995			--	--	--	40
41	--	--	--					9936	7995	--	--	--	42
		Total Load:		33834 VA		34106 VA		34133 VA					
		Total Amps:		122 A		123 A		123 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1218 VA	100.00%	1218 VA		
Lighting	4575 VA	100.00%	4575 VA	**Total Conn. Load:**	102069 VA
Motor	2376 VA	104.17%	2475 VA	**Total Est. Demand:**	85529 VA
Receptacle	40880 VA	62.23%	25440 VA	**Total Conn. Current:**	123 A
Cooling	34322 VA	100.00%	34322 VA	**Total Est. Demand Current:**	103 A
Electric Clothes Dryer	4800 VA	100.00%	4800 VA		
Equipment	6000 VA	100.00%	6000 VA		
Misc.	6844 VA	100.00%	6844 VA		
Misc. Non-Continuous	1200 VA	0.01%	0 VA		

Notes:

Branch Panel: E2PC

Location: ELECTRICAL B1028 **Volts:** 120/208 Wye **A.I.C. Rating:** 10k AIC
Supply From: TR-2C **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 125 A
Enclosure: 1 **MCB Rating:** 110 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Recepts - Rm B1133	20 A	1	1080	1080					1	20 A	Recepts - Rm B1032	8
9	Recepts - Rm B1133	20 A	1			1080	1080			1	20 A	Recepts - Rms B1025, B1030 & B1032	10
11	Recepts - Rm B1133	20 A	1					1080	1080	1	20 A	Recepts - Rm B1043	12
13	Recepts - Rms B1131 & B1132	20 A	1	1080	1872					2	30 A	Guardian - Rm B1043	14
15	Recepts - Rms B1122 & B1130	20 A	1			900	1872			--	--	--	16
17	Recepts - Rms B1129	20 A	1					900	1000	1	20 A	Guardian - Rm B1043	18
19	Micro - Rm B1124	20 A	1	1200	900					1	20 A	Receepts - Rm B1128	20
21	Refrig - Rm B1124	20 A	1			1000	820			1	20 A	Recepts - Rms B1121, B1122 & B1125	22
23	Refrig - Rm B1124	20 A	1					1000	1080	1	20 A	Recepts - Rms B1126, B1127 & B1128	24
25	Recepts - Rms B1122 & B1124	20 A	1	900	1000					1	20 A	Washer - Rm B1043	26
27	Recepts - Rms B1123 & B1124	20 A	1			900	2400			2	30 A	Electric Clothes Dryer - Rm B1043	28
29	Refrig - Rm B1123	20 A	1					1000	2400	--	--	--	30
31	Area B - Cell Valve Controllers	20 A	1	0	396					1	20 A	Sliding Door 'B1121A'	32
33	SPARE	20 A	1			0	396			1	20 A	Sliding Door 'B1121C'	34
35	SPARE	20 A	1					0	396	1	20 A	Sliding Door 'B1121B'	36
37	SPACE	--	--	0	0					3	60 A	Surge Protective Device 'SPD-E2PC'	38
39	SPACE	--	--			0	0			--	--	--	40
41	SPACE	--	--					0	0	--	--	--	42
		Total Load:		9508 VA		10448 VA		9936 VA					
		Total Amps:		79 A		88 A		83 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1188 VA	108.33%	1287 VA		
Receptacle	15860 VA	81.53%	12930 VA	**Total Conn. Load:**	29892 VA
Electric Clothes Dryer	4800 VA	100.00%	4800 VA	**Total Est. Demand:**	25861 VA
Misc.	6844 VA	100.00%	6844 VA	**Total Conn. Current:**	83 A
Misc. Non-Continuous	1200 VA	0.01%	0 VA	**Total Est. Demand Current:**	72 A

Notes:

Branch Panel: E2PD

Location: ELECTRICAL B1028 **Volts:** 120/208 Wye **A.I.C. Rating:** 10k AIC
Supply From: TR-2D **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 125 A
Enclosure: 1 **MCB Rating:** 110 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Recepts - Rm C1080	20 A	1	720	720					1	20 A	Recepts - Rms C1067 & C1071	8
9	Recepts - Rm C1080	20 A	1			720	900			1	20 A	Recepts - Rm C1071	10
11	Recepts - Rm C1078	20 A	1					900	720	1	20 A	Receptacle ATTORNEY C1068	12
13	Recepts - Rm C1077	20 A	1	900	720					1	20 A	Receptacle ATTORNEY C1068	14
15	Recepts - Rms C1025 & C1076	20 A	1			720	720			1	20 A	Recepts - Rm C1069	16
17	Recepts - Rms C1077 & C1078	20 A	1					1080	900	1	20 A	Recepts - Rm C1069	18
19	Recepts - Rms C1073 & C1075	20 A	1	900	720					1	20 A	Recept - Rm C1070	20
21	Recepts - Rms C1073 & C1074	20 A	1			720	900			1	20 A	Recept - Rm C1070	22
23	Recepts - Rms C1072 & C1073	20 A	1					900	1080	1	20 A	Floor Boxes - Rm C1070	24
25	Sliding Door 'B1025'	20 A	1	396	1500					1	20 A	Security Data Rack 'SQE#1' - Rm C1079	26
27	Air Cooled Cond. Unit 'ACC-B' - on Roof	30 A	2			915	1500			1	20 A	Security Data Rack 'SQE#1' - Rm C1079	28
29	--	--	--					915	1500	1	20 A	Security Data Rack 'SQE#1' - Rm C1079	30
31	SPARE	20 A	1	0	1500					1	20 A	Security Data Rack 'SQE#1' - Rm C1079	32
33	SPARE	20 A	1			0	900			1	20 A	Recepts - Rm C1079	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPACE	--	--	0	0					3	60 A	Surge Protective Deivce 'SPD-E2PD'	38
39	SPACE	--	--			0	0			--	--	--	40
41	SPACE	--	--					0	0	--	--	--	42
		Total Load:		8076 VA		7995 VA		7995 VA					
		Total Amps:		67 A		67 A		67 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	396 VA	125.00%	495 VA		
Receptacle	15840 VA	81.57%	12920 VA	**Total Conn. Load:**	24066 VA
Cooling	1830 VA	100.00%	1830 VA	**Total Est. Demand:**	21245 VA
Equipment	6000 VA	100.00%	6000 VA	**Total Conn. Current:**	67 A
				Total Est. Demand Current:	59 A

Notes:

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ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PROFESSIONAL ENGINEER PE00019675 STATE OF INDIANA

NO.	REVISION	DATE

DRAWN: RGW CHK'D: MLH
DESIGNED: RGW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PANELBOARD SCHEDULES

DRAWING NUMBER E-703
ELECTRICAL

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Branch Panel: E2PE

Location: JANITOR B1108 **Supply From:** TR-2E **Mounting:** Surface **Enclosure:** 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10k AIC **Mains Type:** MCB **Mains Rating:** 125 A **MCB Rating:** 60 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Recepts - Rm B1096	20 A	1	720	900					1	20 A	Recepts - Male Dayroom Chases	8
9	Recepts - Rm B1096	20 A	1			720	900			1	20 A	Recepts - Cells B1102-B1106	10
11	Recepts - Rms B1094, B1095 & B1096	20 A	1					900	900	1	20 A	Recepts - Cells B1096-B1101	12
13	Recepts - Rms B105, B1108, B1134 & Exterior	20 A	1	1080	1080					1	20 A	Recepts - Rms B1095 & B1112	14
15	Sliding Door 'B1093B'	20 A	1			396	900			1	20 A	Recepts - Female Dayroom Chases	16
17	Sliding Door 'B1093A'	20 A	1					396	900	1	20 A	Recepts - Cells B1114-B1118	18
19	Recept on Roof	20 A	1	180	0					1	20 A	SPARE	20
21	Area B - Cell Valve Controllers	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPACE	--	--	0	0					3	60 A	Surge Protective Device 'SPD-E2PE'	26
27	SPACE	--	--			0	0			--	--	--	28
29	SPACE	--	--					0	0	--	--	--	30
			Total Load:	3960 VA		2916 VA		3096 VA					
			Total Amps:	33 A		24 A		26 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	792 VA	112.50%	891 VA		
Receptacle	9180 VA	100.00%	9180 VA	Total Conn. Load:	9972 VA
				Total Est. Demand:	10071 VA
				Total Conn. Current:	28 A
				Total Est. Demand Current:	28 A

Notes:

Branch Panel: L1P

Location: ELECTRICAL C1054 **Supply From:** TR-1L **Mounting:** Surface **Enclosure:** 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10k AIC **Mains Type:** MCB **Mains Rating:** 125 A **MCB Rating:** 60 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	*, Fire Alarm Control Panel 'FACP-1' - Rm C1054	20 A	1	250	250					1	20 A	Temperature Control Panel - Rm C1053	8
9	*, Fire Alarm Graphic Panel 'FA-GAP' - Rm C1055	20 A	1			250	250			1	20 A	Temperature Control Panel - Rm C1005	10
11	SPARE	20 A	1					0	250	1	20 A	Temperature Control Panel - Rm B1030	12
13	Self Contained Dry Powder System - Rm C1052A	20 A	1	500	0					1	20 A	SPARE	14
15	Self Contained Dry Powder System - Rm C1046	20 A	1			500	0			1	20 A	SPARE	16
17	Self Contained Dry Powder System - Rm B1024	20 A	1					500	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPACE	--	--	0	0					3	60 A	Surge Protective Device 'SPD-L1P'	26
27	SPACE	--	--			0	0			--	--	--	28
29	SPACE	--	--					0	0	--	--	--	30
			Total Load:	1000 VA		1000 VA		750 VA					
			Total Amps:	9 A		9 A		6 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	1500 VA	100.00%	1500 VA		
				Total Conn. Load:	1500 VA
				Total Est. Demand:	1500 VA
				Total Conn. Current:	4 A
				Total Est. Demand Current:	4 A

Notes:
* = PROVIDE RED BREAKER LOCK KIT FOR MAINTAINING BREAKER IN THE CLOSED POSITION.

Branch Panel: U1R

Location: ELECTRICAL B1028 **Supply From:** TR-U1 **Mounting:** Surface **Enclosure:** 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10k AIC **Mains Type:** MCB **Mains Rating:** 250 A **MCB Rating:** 175 A

Notes:
NEW SURFACE MOUNTED PANEL WITH 200% NEUTRAL.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Floor Box - Rm D1000	20 A	1	540	540					1	20 A	Floor Box - Rm E1000	8
9	Floor Box - Rm D1000	20 A	1			540	540			1	20 A	Floor Box - Rm E1000	10
11	Recepts - Rm D1000	20 A	1					720	720	1	20 A	Recepts - Rm E1000	12
13	Recepts - Rm D1000	20 A	1	360	360					1	20 A	Recepts - Rm E1000	14
15	Security Relay Panel 'SQE#11' - Rm B1028	20 A	1			250	250			1	20 A	Security Relay Panel 'SQE#7a' - Rm B1108	16
17	Recepts - Rm B1096	20 A	1					720	250	1	20 A	Security Relay Panel 'SQE#7b' - Rm B1108	18
19	Security Data Rack 'SQE#1' - Rm C1079	20 A	1	1500	1500					1	20 A	Security Data Rack 'SQE#1' - Rm C1079	20
21	Security Data Rack 'SQE#1' - Rm C1079	20 A	1			1500	1500			1	20 A	Security Data Rack 'SQE#1' - Rm C1079	22
23	Security Data Rack 'SQE#1' - Rm C1079	20 A	1					1500	1500	1	20 A	Security Data Rack 'SQE#1' - Rm C1079	24
25	Security Data Rack 'SQE#1' - Rm C1079	20 A	1	1500	1500					1	20 A	Security Data Rack 'SQE#1' - Rm C1079	26
27	Security Data Rack 'SQE#1' - Rm C1079	20 A	1			1500	1500			1	20 A	Security Data Rack 'SQE#3' - Rm B2001	28
29	Security Data Rack 'SQE#1' - Rm C1079	20 A	1					1500	1500	1	20 A	Security Data Rack 'SQE#3' - Rm B2001	30
31	Security Wall Rack 'SQE#14' - Rm D1014	20 A	1	1500	1500					1	20 A	Security Data Rack 'SQE#3' - Rm B2001	32
33	Security Wall Rack 'SQE#15' - Rm E1014	20 A	1			1500	1500			1	20 A	Security Data Rack 'SQE#3' - Rm B2001	34
35	Security Relay Panel 'SQE#12' - Rm B2000	20 A	1					250	1500	1	20 A	Security Data Rack 'SQE#3' - Rm B2001	36
37	Security Relay Panel 'SQE#9a' - Rm E1016B	20 A	1	250	250					1	20 A	Security Relay Panel 'SQE#8' - Rm D1014	38
39	Security Relay Panel 'SQE#9b' - Rm E1016B	20 A	1			250	0			1	20 A	SPARE	40
41	Security Relay Panel 'SQE#10' - Rm E1014	20 A	1					250	0	1	20 A	SPARE	42
43	SPACE	--	--	0	0					--	--	SPACE	44
45	SPACE	--	--			0	0			--	--	SPACE	46
47	SPACE	--	--					0	0	--	--	SPACE	48
49	SPACE	--	--	0	0					3	60 A	Surge Protective Device 'SPD-U1R'	50
51	SPACE	--	--			0	0			--	--	--	52
53	SPACE	--	--					0	0	--	--	--	54
			Total Load:	11300 VA		10830 VA		10410 VA					
			Total Amps:	95 A		91 A		87 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	5040 VA	100.00%	5040 VA		
Equipment	25500 VA	100.00%	25500 VA	Total Conn. Load:	30540 VA
				Total Est. Demand:	30540 VA
				Total Conn. Current:	85 A
				Total Est. Demand Current:	85 A

Notes:

Branch Panel: U2R

Location: ELECTRICAL B1024 **Supply From:** TR-U2... **Mounting:** Surface **Enclosure:** 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10k AIC **Mains Type:** MCB **Mains Rating:** 250 A **MCB Rating:** 175 A

Notes:
NEW SURFACE MOUNTED PANEL WITH 200% NEUTRAL.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Floor Box - Rm B1016	20 A	1	540	900					1	20 A	Recepts - Rm B1016	8
9	Floor Box - Rm B1016	20 A	1			540	540			1	20 A	Floor Box - Rm B1016	10
11	TV Recepts - Rm B1016	20 A	1					720	540	1	20 A	Floor Box - Rm B1016	12
13	Radio Charging Recept - Rm B1016	20 A	1	360	360					1	20 A	Recepts - Rm B1053A	14
15	Radio Charging Recept - Rm B1016	20 A	1			360	360			1	20 A	Recepts - Rm B1053A	16
17	Radio Charging Recept - Rm B1016	20 A	1					360	360	1	20 A	Recepts - Rm B1053A	18
19	Recepts - Rm B1053A	20 A	1	360	360					1	20 A	Recepts - Rm B1053A	20
21	Recepts - Rm B1053A	20 A	1			360	360			1	20 A	Recepts - Rm B1053A	22
23	Recept - Telephone Terminal Board - Rm B1060	20 A	1					360	360	1	20 A	Recepts - Rm B1053A	24
25	Security Wall Rack 'SQE#4' - Rm C1046	20 A	1	1500	250					1	20 A	Security Relay Panel 'SQE#13' - Rm B1060	26
27	Security Wall Rack 'SQE#5' - Rm B1137	20 A	1			1500	250			1	20 A	Security Relay Panel 'SQE#6a' - Rm B1024	28
29	Security Wall Rack 'SQE#2' - Rm C1104	20 A	1					1500	250	1	20 A	Security Relay Panel 'SQE#6b' - Rm B1024	30
31	Emplyee Parking Lot Camera - Exterior	20 A	1	500	1500					1	20 A	Communication/Data Rack - Rm B1060	32
33	Emplyee Parking Lot Camera - Exterior	20 A	1			500	1500			1	20 A	Communication/Data Rack - Rm B1060	34
35	Emplyee Parking Lot Camera - Exterior	20 A	1					500	1500	1	20 A	Communication/Data Rack - Rm B1060	36
37	Visitor Parking Lot Camera - Exterior	20 A	1	500	1500					1	20 A	Communication/Data Rack - Rm B1060	38
39	Visitor Parking Lot Camera - Exterior	20 A	1			500	1500			1	20 A	Communication/Data Rack - Rm B1060	40
41	Visitor Parking Lot Camera - Exterior	20 A	1					500	1500	1	20 A	Communication/Data Rack - Rm B1060	42
43	Recepts - Rm C1016	20 A	1	360	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	SPACE	--	--	0	0					3	60 A	Surge Protective Device 'SPD-U2R'	50
51	SPACE	--	--			0	0			--	--	--	52
53	SPACE	--	--					0	0	--	--	--	54
			Total Load:	8990 VA		8270 VA		8450 VA					
			Total Amps:	75 A		69 A		71 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	8460 VA	100.00%	8460 VA		
Equipment	16500 VA	100.00%	16500 VA	Total Conn. Load:	24960 VA
				Total Est. Demand:	24960 VA
				Total Conn. Current:	69 A
				Total Est. Demand Current:	69 A

Notes:

Branch Panel: L2P

Location: ELECTRICAL B2002 **Supply From:** TR-L2P **Mounting:** Surface **Enclosure:** 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10kA **Mains Type:** MCB **Mains Rating:** 125 A **MCB Rating:** 60 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Self-Contained Dry Powder System - Rm B2002	20 A	1	500	696					1	20 A	Smoke Exhaust Fan 'SEF-2-4' - Roof	8
9	Smoke Exhaust Fan 'SEF-1-3' - Roof	20 A	1			1176	696			1	20 A	Smoke Exhaust Fan 'SEF-2-5' - Roof	10
11	Smoke Exhaust Fan 'SEF-2-3' - Roof	20 A	1					1176	672	1	20 A	*, Vesda Control Panel - Rm E1016	12
13	*, Vesda Control Panel - Rm E1016	20 A	1	672	672					1	20 A	*, Vesda Control Panel - Rm D1015	14
15	*, Vesda Control Panel - Rm E1015	20 A	1			672	250			1	20 A	Temperature Control Panel - Rm D1015B	16
17	Temperature Control Panel - Rm E1015	20 A	1					250	672	1	20 A	*, Vesda Control Panel - Rm D1014	18
19	*, Vesda Control Panel - Rm E1014	20 A	1	672	250					1	20 A	*, Fire Alarm Control Panel 'FACP-2' - Rm B1028	20
21	Area 'D' Fire Smoke Dampers	20 A	1			0	250			1	20 A	Temperature Control Panel - Rm B2000	22
23	Area 'E' Fire Smoke Dampers	20 A	1					0	500	1	20 A	Self Contained Dry Powder System - Rm B2000	24
25	Area 'B' Fire Smoke Dampers	20 A	1	0	0					3	60 A	Surge Protective Device 'SPD-L2P'	26
27	SPARE	20 A	1			0	0			--	--	--	28
29	SPARE	20 A	1					0	0	--	--	--	30
			Total Load:	3462 VA		3044 VA		3270 VA					
			Total Amps:	29 A		25 A		28 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	3744 VA	107.85%	4038 VA		
Power	4032 VA	100.00%	4032 VA	Total Conn. Load:	8776 VA
Equipment	500 VA	100.00%	500 VA	Total Est. Demand:	9070 VA
Misc	500 VA	100.00%	500 VA	Total Conn. Current:	24 A
				Total Est. Demand Current:	25 A

Notes:
* = PROVIDE RED BREAKER LOCK KIT FOR MAINTAINING BREAKER IN THE CLOSED POSITION.

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
PANELBOARD SCHEDULES

DRAWING NUMBER
E-704
ELECTRICAL

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Branch Panel: E4H

Location: STORAGE E1016B **Supply From:** ODPB **Mounting:** Surface **Enclosure:** 1
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 42k AIC **Mains Type:** MLO **Mains Rating:** 250 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Lighting - Dayrooms 1-B, 1-C, 1-D	20 A	1	3776	2335					1	20 A	Lighting - Dayrooms 1-E, 1-F, Corridor	8
9	Lighting - Dayrooms 1-G, 1-H, 1-J	20 A	1			3776	2200			1	20 A	Lighting - 2nd Floor Area D South Cells	10
11	Lighting - Dayrooms 2-B, 2-C, 2-D	20 A	1					3776	2335	1	20 A	Lighting 2 - Dayrooms 2-E, 2-4, Corridor	12
13	Lighting - Dayrooms 2-G, 2-H, 2-J	20 A	1	3776	2200					1	20 A	Lighting - First Floor Area E South Cells	14
15	Lighting - 1st Floor Area D South Cells	20 A	1			2200	2200			1	20 A	Lighting - 2nd Floor Area E South Cells	16
17	Lighting - Plumbing Chase	20 A	1					2132	0	1	20 A	SPARE	18
19	Fan Powered Box 'FPV-4-02'	20 A	1	895	895					1	20 A	Fan Powered Box 'FPV-4-09'	20
21	Fan Powered Box 'FPV-4-04'	20 A	1			895	895			1	20 A	Fan Powered Box 'FPV-4-10'	22
23	Fan Powered Box 'FPV-4-03'	20 A	1					895	895	1	20 A	Fan Powered Box 'FPV-4-12'	24
25	Fan Powered Box 'FPV-4-05'	20 A	1	2715	895					1	20 A	Fan Powered Box 'FPV-4-01'	26
27	Fan Powered Box 'FPV-4-06'	20 A	1			2715	895			1	20 A	Fan Powered Box 'FPV-4-16'	28
29	Fan Powered Box 'FPV-4-08'	20 A	1					2715	895	1	20 A	Fan Powered Box 'FPV-4-11'	30
31	Fan Powered Box 'FPV-4-07'	20 A	1	2715	0					--	--	SPACE	32
33	SPARE	20 A	1			0	0			--	--	SPACE	34
35	SPARE	20 A	1					0	0	--	--	SPACE	36
37	Panels 'E4PA' via Transformer 'TR-4A'	50 A	3	8172	9283					3	50 A	Panels 'E4PB' via Transformer 'TR-4B'	38
39	--	--	--			8352	8887			--	--	--	40
41	--	--	--					8112	8784	--	--	--	42
			Total Load:	37657 VA		33015 VA		30539 VA					
			Total Amps:	137 A		121 A		110 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	21147 VA	100.00%	21147 VA		
Lighting	30707 VA	100.00%	30707 VA	Total Conn. Load:	101212 VA
Motor	2928 VA	110.04%	3222 VA	Total Est. Demand:	87756 VA
Receptacle	35100 VA	64.25%	22550 VA	Total Conn. Current:	122 A
Cooling	1830 VA	100.00%	1830 VA	Total Est. Demand Current:	106 A
Heating	6000 VA	100.00%	6000 VA		
Misc.	2300 VA	100.00%	2300 VA		
Misc. Non-Continuous	1200 VA	0.01%	0 VA		

Notes:

Branch Panel: E4PA

Location: STORAGE E1016B **Supply From:** TR-4A... **Mounting:** Surface **Enclosure:** 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10k AIC **Mains Type:** MCB **Mains Rating:** 125 A **MCB Rating:** 110 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Recepts - Rm D1020	20 A	1	540	540					1	20 A	Recepts - Rm D1050	8
9	Recepts - Rm D1030	20 A	1			540	900			1	20 A	TV Recepts Rms D1020, 1030, 1040, 1050, 1060	10
11	Recepts - Rm D1040	20 A	1					540	540	1	20 A	Recepts - Rm D1060	12
13	Recepts - Rms D1015 & Exterior	20 A	1	720	372					1	20 A	Fan Coil Unit 'FC-5' - Rm #E1016B	14
15	Recepts - Rms E1015 & Exterior	20 A	1			720	372			1	20 A	Fan Coil Unit 'FC-4' - Rm #D1015	16
17	Recepts - Rms E1016B, E1016C, E1016D	20 A	1					900	372	1	20 A	Fan Coil Unit 'FC-7' - Rm #E1015	18
19	Recepts - Rm E1016	20 A	1	720	540					1	20 A	Recepts - Rm E1120	20
21	Recepts D Cells 1024, 2024 E Cells 1121, 2121	20 A	1			720	540			1	20 A	Recepts - Rm E1110	22
23	Recepts D Cells 1041, 2041, E Cells 1093, 2093	20 A	1					720	540	1	20 A	Recepts - Rm E1090	24
25	Recepts D Cells 1032, 2032, E Cells 1111, 2111	20 A	1	720	540					1	20 A	Recepts - Rm E1080	26
27	Recepts - D Cells 1054, 1061, 2054, 2061	20 A	1			720	540			1	20 A	Recepts - Rm E1070	28
29	Recepts - E Cells 1072, 1081, E Cells 2072, 2081	20 A	1					720	900	1	20 A	TV Recepts Rms E1070, 1090, 1090, 1110, 1120	30
31	Recepts Rms D1020 & D1011	20 A	1	1080	900					1	20 A	Recepts - Rm E1003 & E1120	32
33	Recepts - Rms D1030 & D1040	20 A	1			900	900			1	20 A	Recepts - Rms E1090 & E1110	34
35	Recepts - Rms D1050 & D1060	20 A	1					1260	1260	1	20 A	Recepts - Rms E1070 & E1080	36
37	Area D - Cell Valve Controllers	20 A	1	0	1500					1	20 A	Elec. Wall Heater - Rm E1017	38
39	Area E - Cell Valve Controllers	20 A	1			0	1500			1	20 A	Elec. Wall Heater - Rm D1016	40
41	Recepts - Rm E1016B	20 A	1					360	0	1	20 A	SPARE	42
43	SPARE	20 A	1	0	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	SPACE	--	--	0	0					3	60 A	Surge Protective Device 'SPD-E4PA'	50
51	SPACE	--	--			0	0			--	--	--	52
53	SPACE	--	--					0	0	--	--	--	54
			Total Load:	8172 VA		8352 VA		8112 VA					
			Total Amps:	68 A		70 A		68 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1116 VA	100.00%	1116 VA		
Receptacle	20520 VA	74.37%	15260 VA	Total Conn. Load:	24636 VA
Heating	3000 VA	100.00%	3000 VA	Total Est. Demand:	19376 VA
				Total Conn. Current:	68 A
				Total Est. Demand Current:	54 A

Notes:

Branch Panel: E4PB

Location: CHASE 303 **Supply From:** TR-4B **Mounting:** Surface **Enclosure:** 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10k AIC **Mains Type:** MCB **Mains Rating:** 125 A **MCB Rating:** 110 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	TV Recepts Rms E1020, 1030, 1040, 1050, 1060	20 A	1	900	540					1	20 A	Recepts - E Cells 1026, 1032, 1041	8
9	Recepts - Rm E1020	20 A	1			540	540			1	20 A	Recepts - E Cells 2026, 2032, 2041	10
11	Recepts - Rm E1030	20 A	1					540	720	1	20 A	Recepts - E Cells 1054, 1061, 2054, 2061	12
13	Recepts - Rm E1040	20 A	1	540	900					1	20 A	Recepts - Rm E1015	14
15	Recepts - Rm E1050	20 A	1			540	900			1	20 A	Recepts - Rm E1014	16
17	Recepts - Rm E1060	20 A	1					540	900	1	20 A	Recepts - Rms E1011, E1012 & E1013	18
19	Recepts - Rms E1050 & E1060	20 A	1	1260	372					1	20 A	Fan Coil Unit 'FCU-10' - Rm E1014	20
21	Recepts - Rms E1030 & E1040	20 A	1			900	372			1	20 A	Fan Coil Unit 'FCU-9' - Rm E1014	22
23	Recepts - Rms E1010 & E1020	20 A	1					900	372	1	20 A	Fan Coil Unit 'FCU-8' - Rm E1015	24
25	Recepts - Rms E1001A/B & E1002A/B	20 A	1	720	396					1	20 A	Sliding Door 'E1012'	26
27	Recepts - Rm E1009	20 A	1			720	396			1	20 A	Sliding Door 'E1010A'	28
29	Recepts - Rms E1005, E1008 & E1009	20 A	1					540	396	1	20 A	Sliding Door 'E1010B'	30
31	Recepts - Rm E1009 & E1012	20 A	1	900	640					1	20 A	Receps - Rms E0001 & E0002	32
33	Elec Wall Heater 'EWH-3' - Rm E1013	20 A	1			1500	564			1	20 A	Sump Pump 'SP-1' - Rm E0002	34
35	Overhead Coiling Door 'E1008C' - Rm E1009	20 A	1					1176	1200	1	20 A	Sump Pump 'SP-2' - Rm E0002	36
37	Micro - Rm E1000	20 A	1	1200	915					2	30 A	Air Cooled Cond. Unit 'ACC-G' - on Roof	38
39	Refrig - Rm E1000	20 A	1			1000	915			--	--	--	40
41	Area E - Cell Valve Controllers	20 A	1					0	1500	1	20 A	Elec Wall Heater 'EWH-5' - Rm E0001	42
43	SPARE	20 A	1	0	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	SPACE	--	--	0	0					3	60 A	Surge Protective Device 'SPD-E4PB'	50
51	SPACE	--	--			0	0			--	--	--	52
53	SPACE	--	--					0	0	--	--	--	54
			Total Load:	9283 VA		8887 VA		8784 VA					
			Total Amps:	77 A		74 A		73 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1116 VA	100.00%	1116 VA		
Motor	2928 VA	110.04%	3222 VA	Total Conn. Load:	26954 VA
Receptacle	14580 VA	84.29%	12290 VA	Total Est. Demand:	23758 VA
Cooling	1830 VA	100.00%	1830 VA	Total Conn. Current:	75 A
Heating	3000 VA	100.00%	3000 VA	Total Est. Demand Current:	66 A
Misc.	2300 VA	100.00%	2300 VA		
Misc. Non-Continuous	1200 VA	0.01%	0 VA		

Notes:

Branch Panel: E5H

Location: MECHANICAL B2000 **Supply From:** ODPB **Mounting:** Surface **Enclosure:** 1
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 42k AIC **Mains Type:** MLO **Mains Rating:** 250 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Lighting - Area D 1st & 2nd Floor North Cells	20 A	1	2000	2000					1	20 A	Lighting - Area E 1st & 2nd Floor North Cells	8
9	Lighting - Dayrooms 1-A, 1-K	20 A	1			3212	3212			1	20 A	Lighting - Dayrooms 2-A, 2-K	10
11	Lighting - Area E North	20 A	1					2209	2413	1	20 A	Lighting - Area D North	12
13	Lighting Mechanical B2000	20 A	1	1202	534					1	20 A	Lighting - Corridor B1025, D1012, E1012	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	895	1	20 A	Fan Powered Box 'FPV-3-10'	18
19	Fan Powered Box 'FPV-3-04'	20 A	1	895	895					1	20 A	Fan Powered Box 'FPV-3-03'	20
21	Fan Powered Box 'FPV-3-02'	20 A	1			895	2715			1	20 A	Fan Powered Box 'FPV-3-05'	22
23	Fan Powered Box 'FPV-3-01'	20 A	1					895	2715	1	20 A	Fan Powered Box 'FPV-3-06'	24
25	Fan Powered Box 'FPV-3-16'	20 A	1	895	2715					1	20 A	Fan Powered Box 'FPV-3-08'	26
27	Fan Powered Box 'FPV-3-11'	20 A	1			895	2715			1	20 A	Fan Powered Box 'FPV-3-07'	28
29	Fan Powered Box 'FPV-3-12'	20 A	1					895	895	1	20 A	Fan Powered Box 'FPV-3-09'	30
31	AHU-2 Energy Wheel - Mechanical B2000	20 A	3	421	474					3	20 A	AHU-4 Energy Wheel - Mechanical B2000	32
33	--	--	--			421	474			--	--	--	34
35	--	--	--					421	474	--	--	--	36
37	AHU-3 Energy Wheel - Mechanical B2000	20 A	3	474	2853					3	20 A	Air Cooled Condensing Unit 'ACC-3' - on Roof	38
39	--	--	--			474	2853			--	--	--	40
41	--	--	--					474	2853	--	--	--	42
43	SPACE	--	--	0	0					--	--	SPACE	44
45	SPACE	--	--			0	0			--	--	SPACE	46
47	SPACE	--	--					0	0	--	--	SPACE	48
49	Panels 'E5PA' via transformer 'TR-5A'	50 A	3	10448	9283					3	50 A	Panels 'E5PB' via transformer 'TR-5B'	50
51	--	--	--			9559	8887			--	--	--	52
53	--	--	--					9637	8964	--	--	--	54
			Total Load:	35062 VA		36311 VA		33611 VA					
			Total Amps:	127 A		132 A		121 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	26306 VA	100.00%	26306 VA		
Lighting	18333 VA	100.00%	18333 VA	Total Conn. Load:	104973 VA
Motor	4824 VA	106.09%	5118 VA	Total Est. Demand:	93718 VA
Receptacle	30300 VA	66.50%	20150 VA	Total Conn. Current:	126 A
Cooling	14049 VA	100.00%	14049 VA	Total Est. Demand Current:	113 A
Heating	3000 VA	100.00%	3000 VA		
Equipment	4500 VA	100.00%	4500 VA		
Misc.	2300 VA	100.00%	2300 VA		
Misc. Non-Continuous	1400 VA	0.01%	0 VA		

Notes:

Branch Panel: E5PA

Location: MECHANICAL B2000 **Supply From:** TR-5A **Mounting:** Surface **Enclosure:** 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10k AIC **Mains Type:** MCB **Mains Rating:** 125 A **MCB Rating:** 110 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7					960					1	20 A	AHU-1 - Recepts - Mechanical B2000	8
9	AHU-2 - Lights - Mechanical B2000	20 A	1			626	960			1	20 A	AHU-2 - Recepts - Mechanical B2000	10
11	AHU-3 - Lights - Mechanical B2000	20 A	1					626	960	1	20 A	AHU-3 - Recepts - Mechanical B2000	12
13	AHU-4 - Lights - Mechanical B2000	20 A	1	626	960					1	20 A	AHU-4 - Recepts - Mechanical B2000	14
15	Fan Coil Unit 'FC-11' - Mech B2000	20 A	1			895	895			1	20 A	Fan Coil Unit 'FC-12' - Mech B2000	16
17	Recepts - Rm B2000 & Exterior	20 A	1					720	908	1	20 A	Recepts - Rm B2000 & Exterior	18
19	Recepts - Rms B2001 & B2002	20 A	1	720	540					1	20 A	Recepts - Roof Area 'D'	20
21	Recepts - Rms B2000 & B2001	20 A	1			900	312			1	20 A	Exhaust Fan 'EF-3' - Roof	22
23	Recepts - Rm B2000 & Exterior	20 A	1					1080	540	1	20 A	Recepts - Roof Area 'E'	24
25	Recepts - Rm D1009	20 A	1	1080	396					1	20 A	Sliding Door 'D1011A'	26
27	Recepts - Rm D1006	20 A	1			1260	396			1	20 A	Sliding Door 'D1011'	28
29	Recepts - Rm E1008	20 A	1					1260	360	1	20 A	Recepts - Rm D1010	30
31	Recepts - Rm E1009	20 A	1	1080	396					1	20 A	Sliding Door 'E1003A'	32
33	Recepts - Rms D1012A, E1012 & E1016	20 A	1			540	360			1	20 A	Recepts - Rm E1004	34
35	Fan Coil Unit 'FCU-6' - Rm E1016	20 A	1					372	396	1	20 A	Sliding Door 'E1003B'	36
37	Air Cooled Cond. Unit 'ACC-D' - on Roof	30 A	2	915	360					1	20 A	Recepts - Exterior	38
39	--	--	--			915	0			1	20 A	SPARE	40
41	Air Cooled Cond. Unit 'ACC-E' - on Roof	30 A	2					915	0	1	20 A	SPARE	42
43	--	--	--	915	0					1	20 A	SPARE	44
45	Area D - Cell Valve Controllers	20 A	1			0	0			1	20 A	SPARE	46
47	Area E - Cell Valve Controllers	20 A	1					0	0	1	20 A	SPARE	48
49	Security Data Rack 'SQE#3' - Rm B2001	20 A	1	1500	0					3	60 A	Surge Protective Device 'SPD-E5PA'	50
51	Security Data Rack 'SQE#3' - Rm B2001	20 A	1			1500	0			--	--	--	52
53	Security Data Rack 'SQE#3' - Rm B2001	20 A	1					1500	0	--	--	--	54
			Total Load:	10448 VA		9559 VA		9637 VA					
			Total Amps:	87 A		80 A		80 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2170 VA	100.00%	2170 VA		
Lighting	1878 VA	100.00%	1878 VA	Total Conn. Load:	29644 VA
Motor	1896 VA	105.22%	1995 VA	Total Est. Demand:	26973 VA
Receptacle	15540 VA	82.18%	12770 VA	Total Conn. Current:	82 A
Cooling	3660 VA	100.00%	3660 VA	Total Est. Demand Current:	75 A
Equipment	4500 VA	100.00%	4500 VA		

Notes:

Branch Panel: E5PB

Location: CHASE D1014 **Supply From:** TR-5B **Mounting:** Surface **Enclosure:** 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10k AIC **Mains Type:** MCB **Mains Rating:** 125 A **MCB Rating:** 110 A

Notes:
NEW SURFACE MOUNTED PANEL.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	TV Recepts Rms D1070, 1080, 1090, 1110, 1120	20 A	1	900	540					1	20 A	Recepts - D Cells 1093, 1111, 1121	8
9	Recepts - Rm D1120	20 A	1			540	540			1	20 A	Recepts - D Cells 2093, 2111, 2121	10
11	Recepts - Rm D1110	20 A	1					540	720	1	20 A	Recepts - D Cells 1072 1081, 2072, 2081	12
13	Recepts - Rm D1090	20 A	1	540	900					1	20 A	Recepts - Rm D1015	14
15	Recepts - Rm D1080	20 A	1			540	900			1	20 A	Recepts - Rm D1014	16
17	Recepts - Rm D1070	20 A	1					540	900	1	20 A	Recepts - Rms D1004, D1012 & D1013	18
19	Recepts - Rms D1070 & D1080	20 A	1	1260	372					1	20 A	Fan Coil Unit 'FCU-1' - Rm D1014	20
21	Recepts - Rms D1090 & D1110	20 A	1			900	372			1	20 A	Fan Coil Unit 'FCU-2' - Rm D1014	22
23	Recepts - Rms D1003 & D1120	20 A	1					1080	372	1	20 A	Fan Coil Unit 'FCU-3' - Rm D1015	24
25	Recepts - Rms D1001A/B & D1002A/B	20 A	1	720	396					1	20 A	Sliding Door 'D1012'	26
27	Recepts - Rm D1005	20 A	1			720	396			1	20 A	Sliding Door 'D1003A'	28
29	Recepts - Rms D1005, D1006 & D1009	20 A	1					540	396	1	20 A	Sliding Door 'D1003B'	30
31	Recepts - Rms D1005 & D1012	20 A	1	900	640					1	20 A	Recepts - Rms D0001 & D0002	32
33	Elec Wall Heater 'EWH-1' - Rm D1013	20 A	1			1500	564			1	20 A	Sump Pump 'SP-1' - Rm D0002	34
35	Overhead Coiling Door 'D1008C' - Rm D1005	20 A	1					1176	1200	1	20 A	Sump Pump 'SP-2' - Rm D0002	36
37	Micro - Rm D1000	20 A	1	1200	915					2	30 A	Air Cooled Cond. Unit 'ACC-F' - on Roof	38
39	Refrig - Rm D1000	20 A	1			1000	915			--	--	--	40
41	Area D - Cell Valve Controllers	20 A	1					0	1500	1	20 A	Elec Wall Heater 'EWH-4' - Rm D0001	42
43	SPARE	20 A	1	0	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	SPACE	--	--	0	0					3	60 A	Surge Protective Device 'SPD-E5PB'	50
51	SPACE	--	--			0	0			--	--	--	52
53	SPACE	--	--					0	0	--	--	--	54
			Total Load:	9283 VA		8887 VA		8964 VA					
			Total Amps:	77 A		74 A		75 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1116 VA	100.00%	1116 VA		
Motor	2928 VA	110.04%	3222 VA	Total Conn. Load:	27134 VA
Receptacle	14760 VA	83.88%	12380 VA	Total Est. Demand:	23848 VA
Cooling	1830 VA	100.00%	1830 VA	Total Conn. Current:	75 A
Heating	3000 VA	100.00%	3000 VA	Total Est. Demand Current:	66 A
Misc.	2300 VA	100.00%	2300 VA		
Misc. Non-Continuous	1200 VA	0.01%	0 VA		

Notes:

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN L. HITCHCOCK
REGISTERED No. PE60018676
STATE OF INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PANELBOARD SCHEDULES

DRAWING NUMBER
E-705
ELECTRICAL

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Branch Panel: K1H

Location:	KITCHEN C1059	**Volts:**	480/277 Wye	**A.I.C. Rating:**	10kA
Supply From:	ODPA	**Phases:**	3	**Mains Type:**	MLO
Mounting:	Flush	**Wires:**	4	**Mains Rating:**	400 A
Enclosure:	4X STAINLESS STEEL				

Notes:
NEW FLUSH MOUNTED PANEL. PROVIDE WITH STAINLESS STEEL GASKETED COVER.
PROVIDE THREE (3) EMPTY 1"C. STUBBED OUT ABOVE CEILING FOR FUTURE USE.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Lighting - Kitchen C1059	20 A	1	2408	2715					1	20 A	Fan Powered Box 'FPV-1-24'	8
9	SPARE	20 A	1			0	609			1	20 A	Fan Powered Box 'FPV-1-25'	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	Item #E28 - Sink Heater	50 A	3	4487	10249					3	50 A	Item #E61 - Tank Heater	14
15	--	--	--			4487	10249			--	--	--	16
17	--	--	--					4487	10249	--	--	--	18
19	Item #E40 - Hood Make-Up Air Unit on Roof	20 A	3	5817	6925					3	40 A	Item #E61 - Booster	20
21	--	--	--			5817	6925			--	--	--	22
23	--	--	--					5817	6925	--	--	--	24
25	Item #E40 - Hood Exhaust Fan on Roof	20 A	3	3047	0					--	--	SPACE	26
27	--	--	--			3047	0			--	--	SPACE	28
29	--	--	--					3047	0	--	--	SPACE	30
31	Make-Up Air Unit 'MAU-1' on Roof	20 A	3	1967	0					--	--	SPACE	32
33	--	--	--			1967	0			--	--	SPACE	34
35	--	--	--					1967	0	--	--	SPACE	36
37	Panel 'K3L' via Transformer 'TR-K2'	50 A	3	9164	23179					3	110 A	Panels 'K1L' & 'K2L' via Transformer 'TR-K1'	38
39	--	--	--			10384	23182			--	--	--	40
41	--	--	--					9484	23291	--	--	--	42
			Total Load:	69841 VA		66667 VA		65267 VA					
			Total Amps:	253 A		241 A		236 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	9224 VA	100.00%	9224 VA		
Lighting	2408 VA	100.00%	2408 VA	**Total Conn. Load:**	185560 VA
Motor	36403 VA	111.98%	40766 VA	**Total Est. Demand:**	148678 VA
Receptacle	9860 VA	100.00%	9860 VA	**Total Conn. Current:**	223 A
Electric Clothes Dryer	9840 VA	100.00%	9840 VA	**Total Est. Demand Current:**	179 A
Kitchen Equipment - Non-Dwelling Unit	117844 VA	65.00%	76599 VA		
Misc.	100 VA	100.00%	100 VA		

Notes:
SHUNT-TRIP SPACE = SHUNT TRIPS UPON KITCHEN ANSUL ACTIVATION, SEE DETAIL #3 ON SHEET E8.1.
* = PROVIDE WITH RED BREAKER LOCK KIT TO HOLD THE FEEDER BREAKER HANDLE IN THE CLOSED POSITION.

Branch Panel: K1L

Location:	KITCHEN C1059	**Volts:**	120/208 Wye	**A.I.C. Rating:**	10kA
Supply From:	TR-K1	**Phases:**	3	**Mains Type:**	MCB
Mounting:	Flush	**Wires:**	4	**Mains Rating:**	400 A
Enclosure:	4X STAINLESS STEEL			**MCB Rating:**	250 A

Notes:
NEW FLUSH MOUNTED PANEL. PROVIDE WITH STAINLESS STEEL GASKETED COVER.
PROVIDE THREE (3) EMPTY 1"C. STUBBED OUT ABOVE CEILING FOR FUTURE USE.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Area C - Cell Valve Controllers	20 A	1	0	1404					2	20 A	Item #E37 - Roll-In Freezer	8
9	SPARE	20 A	1			0	1404			--	--	--	10
11	SPARE	20 A	1					0	1435	2	20 A	Item #E35 - Roll-In Heated Cabinet	12
13	Item #E54 - Drop-In Hot Wells	20 A	2	1560	1435					--	--	--	14
15	--	--	--			1560	1300			2	20 A	Item #E25 - Ice Maker	16
17	Item #E54 - Drop-In Hot Wells	20 A	2					1560	1300	--	--	--	18
19	--	--	--	1560	1848					1	20 A	Item #E36 - Roll-In Refrigerator	20
21	Item #E35 - Roll-In Heated Cabinet	20 A	2			1435	1848			1	20 A	Item #E36 - Roll-In Refrigerator	22
23	--	--	--					1435	540	1	20 A	Conv. Outlets - Rm C1059	24
25	Item #E56 - Roll-In Refrigerator	20 A	1	780	900					1	20 A	Recepts - Rms C1059 & C1062	26
27	Item #E57 - Roll-In Freezer	20 A	1			1308	1000			1	20 A	Recepts - Rms C1059, C1061 & C1062	28
29	Item #E36 - Roll-In Refrigerator	20 A	1					1848	396	1	20 A	Sliding Door 'C1059'	30
31	Item #E47 - Hood Supply Fan Input	20 A	1	0	0					1	20 A	Motorized Dampers	32
33	**,Gas Solenoid Valve	20 A	1			0	1000			1	20 A	Item #E47 - Hood Fire Suppression System	34
35	Shunt Trip Space	--	--					0	1000	1	20 A	Item #E47 - Hood Lights	36
37	Item #E43 - Utility Control Panel	100 A	3	3333	10358					3	200 A	Panel 'K2L'	38
39	--	--	--			3333	8993			--	--	--	40
41	--	--	--					3333	10443	--	--	--	42
			Total Load:	23179 VA		23182 VA		23291 VA					
			Total Amps:	193 A		193 A		194 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	9811 VA	110.09%	10801 VA		
Receptacle	6880 VA	100.00%	6880 VA	**Total Conn. Load:**	69651 VA
Kitchen Equipment - Non-Dwelling Unit	52860 VA	65.00%	34359 VA	**Total Est. Demand:**	52140 VA
Misc.	100 VA	100.00%	100 VA	**Total Conn. Current:**	193 A
				Total Est. Demand Current:	145 A

Notes:
SHUNT-TRIP SPACE = SHUNT TRIPS UPON KITCHEN ANSUL ACTIVATION, SEE DETAIL #3 ON SHEET E-801.
* = GROUND FAULT EQUIPMENT PROTECTION TYPE BREAKER WITH 30mA TRIP.
** = PROVIDE WITH RED BREAKER LOCK KIT TO HOLD THE FEEDER BREAKER HANDLE IN THE CLOSED POSITION.

Branch Panel: K2L

Location:	KITCHEN C1059	**Volts:**	120/208 Wye	**A.I.C. Rating:**	10kA
Supply From:	K1L	**Phases:**	3	**Mains Type:**	MLO
Mounting:	Flush	**Wires:**	4	**Mains Rating:**	250 A
Enclosure:	4X STAINLESS STEEL				

Notes:
NEW FLUSH MOUNTED PANEL. PROVIDE WITH STAINLESS STEEL GASKETED COVER.
PROVIDE THREE (3) EMPTY 1"C. STUBBED OUT ABOVE CEILING FOR FUTURE USE.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Item #9 - Cooler Lights & Door Heater	20 A	1	1000	180					1	20 A	Item #9.1 - Cooler Evaporator Coil	8
9	Item #9 - Freezer Lights & Door Heater	20 A	1			1000	468			2	20 A	Item #9.3 - Freezer Evaporator Coil	10
11	Item #4 - Freezer Lights & Door Heater	20 A	1					1000	468	--	--	--	12
13	Item #4 - Cooler Lights & Door Heater	20 A	1	1000	915					2	20 A	Item #4.3 - Freezer Evaporator Coil	14
15	*,Item #9.3 - Freezer Drain Line Heat Tape	20 A	1			1000	915			--	--	--	16
17	*,Item #4.3 - Freezer Drain Line Heat Tape	20 A	1					1000	1000	1	20 A	Dedicated Conv. Outlet - Kitchen	18
19	Dedicated Conv. Outlet - Kitchen	20 A	1	1000	432					1	20 A	Item #4.1 - Cooler Evaporator Coils	20
21	Dedicated Conv. Outlet - Kitchen	20 A	1			1000	840			1	20 A	Item #E18 - Slicer	22
23	Dedicated Conv. Outlet - Kitchen	20 A	1					1000	2391	2	30 A	Item #E22 - Mixer	24
25	Sliding Door 'C1063A'	20 A	1	396	2391					--	--	--	26
27	Sliding Door 'C1063B'	20 A	1			396	840			1	20 A	Item #E18 - Slicer	28
29	Recept - Rm C1063	20 A	1					540	510	2	20 A	Item #E9.2 - Cooler Condensing Unit on Roof	30
31	Item #E9.4 - Freezer Condensing Unit on Roof	20 A	3	497	510					--	--	--	32
33	--	--	--			497	0			1	20 A	SPARE	34
35	--	--	--					497	0	1	20 A	SPARE	36
37	Item #E4.4 - Freezer Condensing Unit on Roof	20 A	3	1320	718					3	20 A	Item #E4.2 - Cooler Condensing Unit on Roof	38
39	--	--	--			1320	718			--	--	--	40
41	--	--	--					1320	718	--	--	--	42
			Total Load:	10358 VA		8993 VA		10443 VA					
			Total Amps:	88 A		75 A		89 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	9415 VA	110.52%	10405 VA		
Receptacle	4540 VA	100.00%	4540 VA	**Total Conn. Load:**	29795 VA
Kitchen Equipment - Non-Dwelling Unit	15840 VA	65.00%	10296 VA	**Total Est. Demand:**	25241 VA
				Total Conn. Current:	83 A
				Total Est. Demand Current:	70 A

Notes:
SHUNT-TRIP SPACE = SHUNT TRIPS UPON KITCHEN ANSUL ACTIVATION, SEE DETAIL #3 ON SHEET E-801.
* = GROUND FAULT EQUIPMENT PROTECTION TYPE BREAKER WITH 30mA TRIP.
** = PROVIDE WITH RED BREAKER LOCK KIT TO HOLD THE FEEDER BREAKER HANDLE IN THE CLOSED POSITION.

Branch Panel: K3L

Location:	LAUNDRY C1065	**Volts:**	120/208 Wye	**A.I.C. Rating:**	10kA
Supply From:	TR-K2	**Phases:**	3	**Mains Type:**	MCB
Mounting:	Flush	**Wires:**	4	**Mains Rating:**	125 A
Enclosure:	1			**MCB Rating:**	110 A

Notes:
NEW FLUSH MOUNTED PANEL. PROVIDE WITH STAINLESS STEEL GASKETED COVER.
PROVIDE THREE (3) EMPTY 1"C. STUBBED OUT ABOVE CEILING FOR FUTURE USE.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Washer - Rm C1065	20 A	1	1000	1080					1	20 A	Recepts - Rm C1065 & Exterior	8
9	Electric Clothes Dryer - Rm C1065	30 A	2			2400	900			1	20 A	Recepts - Rms C1065 & C1065B	10
11	--	--	--					2400	0	1	20 A	SPARE	12
13	Washer - Rm C1065	30 A	3	1801	1680					1	25 A	Dryer - Rm C1065	14
15	--	--	--			1801	1680			1	25 A	Dryer - Rm C1065	16
17	--	--	--					1801	1680	1	25 A	Dryer - Rm C1065	18
19	Washer - Rm C1065	30 A	3	1801	0					--	--	SPACE	20
21	--	--	--			1801	0			--	--	SPACE	22
23	--	--	--					1801	0	--	--	SPACE	24
25	Washer - Rm C1065	30 A	3	1801	0					--	--	SPACE	26
27	--	--	--			1801	0			--	--	SPACE	28
29	--	--	--					1801	0	--	--	SPACE	30
			Total Load:	9164 VA		10384 VA		9484 VA					
			Total Amps:	76 A		87 A		79 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	2980 VA	100.00%	2980 VA		
Electric Clothes Dryer	9840 VA	100.00%	9840 VA	**Total Conn. Load:**	12820 VA
				Total Est. Demand:	12820 VA
				Total Conn. Current:	36 A
				Total Est. Demand Current:	36 A

Notes:

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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PANELBOARD SCHEDULES

DRAWING NUMBER
E-706
ELECTRICAL

Branch Panel: E3H

Location: VEHICLE SALLYPORT C100
Supply From: ODPA
Mounting: Flush
Enclosure: 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42k AIC
Mains Type: MLO
Mains Rating: 250 A

Notes:
NEW FLUSH MOUNTED PANEL - BASE BID LAYOUT.
PROVIDE THREE (3) EMPTY 1"C. STUBBED OUT INTO VEHICLE SALLYPORT AT +17'-0" AFF FOR FUTURE USE.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7					1762					1	20 A	Lighting - Vehicle Sallyport	8
9													10
11													12
13	Roof Top Unit 'RTU-1' - on Roof	20 A	3	2659									14
15	--	--	--			2659							16
17	--	--	--					2659					18
19	Exhaust Fan 'EF-6A' - on Roof	20 A	3	942	942					3	20 A	Exhaust Fan 'EF-6B' - on Roof	20
21	--	--	--			942	942			--	--	--	22
23	--	--	--					942	942	--	--	--	24
25	Instantaneous Water Heater 'IWH-1' - Rm A1003	60 A	3	12000	9820					3	50 A	Panel 'E3PA' via Transformer 'TR-3'	26
27	--	--	--			12000	9880			--	--	--	28
29	--	--	--					12000	10060	--	--	--	30
			Total Load:	28125 VA		26423 VA		26603 VA					
			Total Amps:	102 A		95 A		96 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	43978 VA	100.00%	43978 VA		
Lighting	1762 VA	100.00%	1762 VA	**Total Conn. Load:**	81150 VA
Motor	21346 VA	103.31%	22052 VA	**Total Est. Demand:**	81756 VA
Other	0 VA	0.00%	0 VA	**Total Conn. Current:**	98 A
Receptacle	10200 VA	99.02%	10100 VA	**Total Est. Demand Current:**	98 A
Heating	3864 VA	100.00%	3864 VA		

Notes:

Branch Panel: E3PA

Location: VEHICLE SALLYPORT C100
Supply From: TR-3
Mounting: Flush
Enclosure: 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10k AIC
Mains Type: MCB
Mains Rating: 125 A
MCB Rating: 110 A

Notes:
NEW FLUSH MOUNTED PANEL - BASE BID LAYOUT.
PROVIDE THREE (3) EMPTY 1"C. STUBBED OUT INTO VEHICLE SALLYPORT AT +17'-0" AFF FOR FUTURE USE.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Overhead Door 'A1003B' - Rm A1003	20 A	1	1656	1080					1	20 A	Recepts - Rms A1000, A1002 & A1003	8
9	Overhead Door 'A1000H' - Rm A1000	20 A	1			1656	1080			1	20 A	Recepts - Rms A1000 & Exterior	10
11	Overhead Door 'A1000E' - Rm A1000	20 A	1					1656	1080	1	20 A	Recepts - Rms A1000 & Exterior	12
13	Overhead Door 'A1000I' - Rm A1000	20 A	1	1656	1080					1	20 A	Recepts - Rms A1000 & Exterior	14
15	Overhead Door 'A1000D' - Rm A1000	20 A	1			1656	900			1	20 A	Recepts - Rms A1000 & Exterior	16
17	Overhead Door 'A1000J' - Rm A1000	20 A	1					1656	900	1	20 A	Recepts - Rms A1001, A1002 & Exterior	18
19	Overhead Door 'A1000C' - Rm A1000	20 A	1	1656	1080					1	20 A	Recepts - Rm A2000 & A2001	20
21	Overhead Door 'A1000K' - Rm A1000	20 A	1			1656	216			1	20 A	Infrared Heater 'IR-4' - Rm A1000	22
23	Overhead Door 'A1000B' - Rm A1000	20 A	1					1656	216	1	20 A	Infrared Heater 'IR-2' - Rm A1000	24
25	Sliding Door 'B1063A'	20 A	1	396	216					1	20 A	Infrared Heater 'IR-3' - Rm A1000	26
27	Elec. Unit Heater 'EUH-1' - Rm A2000	20 A	2			1500	216			1	20 A	Infrared Heater 'IR-1' - Rm A1000	28
29	--	--	--					1500	396	1	20 A	Sliding Door 'B1055A'	30
31	SPACE	--	--	0	1000					1	20 A	Air Compressor Recept - Rm A1003	32
33	SPACE	--	--			0	1000			1	20 A	Recept Cord Reel - Rm A1003	34
35	SPACE	--	--					0	1000	1	20 A	Recept Cord Reel - Rm A1003	36
37	SPACE	--	--	0	0					3	60 A	Surge Protective Deivce 'SPD-E3PA'	38
39	SPACE	--	--			0	0			--	--	--	40
41	SPACE	--	--					0	0	--	--	--	42
			Total Load:	9820 VA		9880 VA		10060 VA					
			Total Amps:	82 A		82 A		84 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	15696 VA	102.64%	16110 VA		
Receptacle	10200 VA	99.02%	10100 VA	**Total Conn. Load:**	29760 VA
Heating	3864 VA	100.00%	3864 VA	**Total Est. Demand:**	30074 VA
				Total Conn. Current:	83 A
				Total Est. Demand Current:	83 A

Notes:

Branch Panel: E3H

Location: VEHICLE SALLYPORT C100
Supply From:
Mounting: Flush
Enclosure: 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42k AIC
Mains Type: MLO
Mains Rating: 250 A

Notes:
NEW FLUSH MOUNTED PANEL - ALTERNATE BID LAYOUT.
PROVIDE THREE (3) EMPTY 1"C. STUBBED OUT INTO VEHICLE SALLYPORT AT +17'-0" AFF FOR FUTURE USE.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7					0					1	20 A	*,(BASE BID) Lighting - Vehicle Sallyport	8
9													10
11													12
13	*,(BASE BID) Roof Top Unit 'RTU-1' - on Roof	20 A	3	0									14
15	--	--	--			0							16
17	--	--	--					0					18
19	Exhaust Fan 'EF-ALT-A' - on Roof	20 A	3	0	0					3	20 A	Exhaust Fan 'EF-ALT-B' - on Roof	20
21	--	--	--			0	0			--	--	--	22
23	--	--	--					0	0	--	--	--	24
25	*,(BASE BID) Ins. Water Heater 'IWH-1' - Rm...	60 A	3	12000	4456					3	50 A	*,(BASE BID) Panel 'E3PA' via Trans. 'TR-3'	26
27	--	--	--			12000	3040			--	--	--	28
29	--	--	--					12000	3400	--	--	--	30
			Total Load:	16456 VA		15040 VA		15400 VA					
			Total Amps:	60 A		54 A		56 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	36000 VA	100.00%	36000 VA		
Motor	1656 VA	125.00%	2070 VA	**Total Conn. Load:**	46896 VA
Receptacle	6240 VA	100.00%	6240 VA	**Total Est. Demand:**	47310 VA
Heating	3000 VA	100.00%	3000 VA	**Total Conn. Current:**	56 A
				Total Est. Demand Current:	57 A

Notes:

Branch Panel: E3PA

Location: VEHICLE SALLYPORT C100
Supply From: TR-3
Mounting: Flush
Enclosure: 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10k AIC
Mains Type: MCB
Mains Rating: 125 A
MCB Rating: 110 A

Notes:
NEW FLUSH MOUNTED PANEL - ALTERNATE BID LAYOUT
PROVIDE THREE (3) EMPTY 1"C. STUBBED OUT INTO VEHICLE SALLYPORT AT +17'-0" AFF FOR FUTURE USE.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Overhead Door 'A1003B' - Rm A1003	20 A	1	1656	1080					1	20 A	Recepts - Rms A1000, A1002 & A1003	8
9	SPARE	20 A	1			0	540			1	20 A	Recepts - Rms A1000 & Exterior	10
11	SPARE	20 A	1					0	0	1	20 A	*,(BASE BID) Recepts - Rms A1000 & Exterior	12
13	SPARE	20 A	1	0	0					1	20 A	*,(BASE BID) Recepts - Rms A1000 & Exterior	14
15	SPARE	20 A	1			0	0			1	20 A	*,(BASE BID) Recepts - Rms A1000 & Exterior	16
17	*,(BASE BID) Overhead Door 'A1000J' - Rm A1000	20 A	1					0	900	1	20 A	Recepts - Rms A1000, A1001 & A1002	18
19	*,(BASE BID) Overhead Door 'A1000C' - Rm...	20 A	1	0	720					1	20 A	Recepts - Rm A2000 & A2001	20
21	*,(BASE BID) Overhead Door 'A1000K' - Rm...	20 A	1			0	0			1	20 A	SPARE	22
23	*,(BASE BID) Overhead Door 'A1000B' - Rm...	20 A	1					0	0	1	20 A	*,(BASE BID) Infrared Heater 'IR-1' - Rm A1000	24
25	*,(BASE BID) Sliding Door 'B1063A'	20 A	1	0	0					1	20 A	SPARE	26
27	*,(BASE BID) Elec. Unit Heater 'EUH-1' - Rm...	20 A	2			1500	0			1	20 A	*,(BASE BID) Infrared Heater 'IR-2' - Rm A1000	28
29	--	--	--					1500	0	1	20 A	*,(BASE BID) Sliding Door 'B1055A'	30
31	SPACE	--	--	0	1000					1	20 A	Air Compressor Recept - Rm A1003	32
33	SPACE	--	--			0	1000			1	20 A	Recept Cord Reel - Rm A1003	34
35	SPACE	--	--					0	1000	1	20 A	Recept Cord Reel - Rm A1003	36
37	SPACE	--	--	0	0					3	60 A	*,(BASE BID) Surge Protective Deivce 'SPD-E3PA'	38
39	SPACE	--	--			0	0			--	--	--	40
41	SPACE	--	--					0	0	--	--	--	42
			Total Load:	4456 VA		3040 VA		3400 VA					
			Total Amps:	38 A		25 A		29 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1656 VA	125.00%	2070 VA		
Receptacle	6240 VA	100.00%	6240 VA	**Total Conn. Load:**	10896 VA
Heating	3000 VA	100.00%	3000 VA	**Total Est. Demand:**	11310 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	31 A

Notes:

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PE60019675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PANELBOARD SCHEDULES

DRAWING NUMBER E-707

ELECTRICAL

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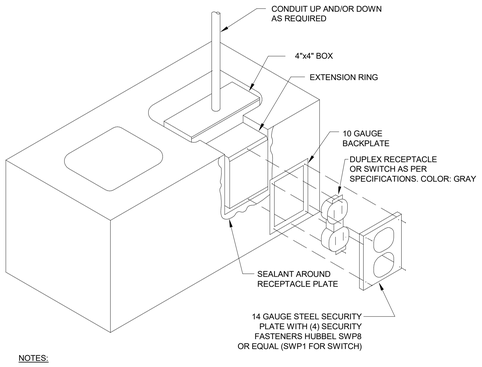
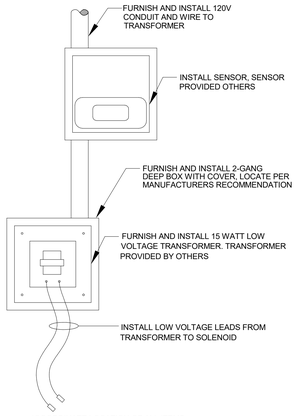


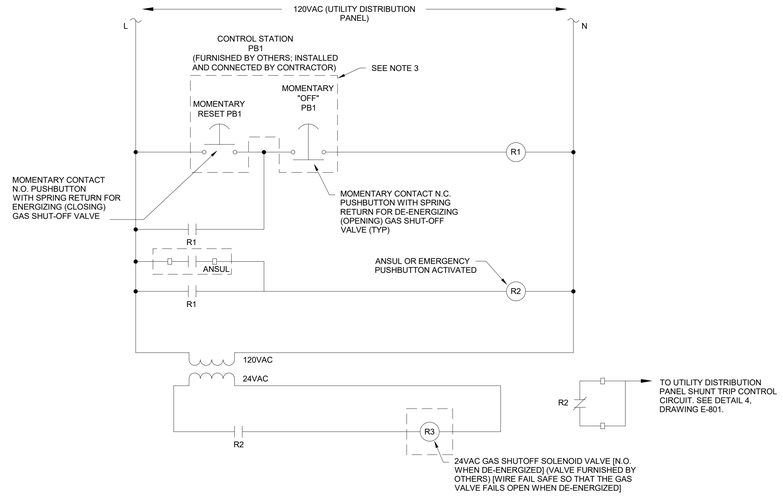
NOTES:
1. SEALANT SHALL BE NONPERMANENT ADHESIVE WHICH WILL ALLOW REMOVAL OF WIRING DEVICE.
2. SECURITY FASTENERS SHALL BE CENTER PIN REJECTION TORX.

1 VANDALPROOF STYLE RECEPTACLE DETAIL
E-801 SCALE: N.T.S.



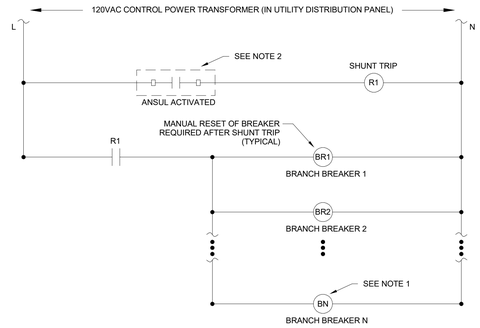
*COORDINATE LOCATION OF ALL ITEMS WITH ALL TRADES AND MANUFACTURERS RECOMMENDATION

2 AUTOMATIC ELECTRONIC FLUSH VALVE DETAIL
E-801 SCALE: N.T.S.



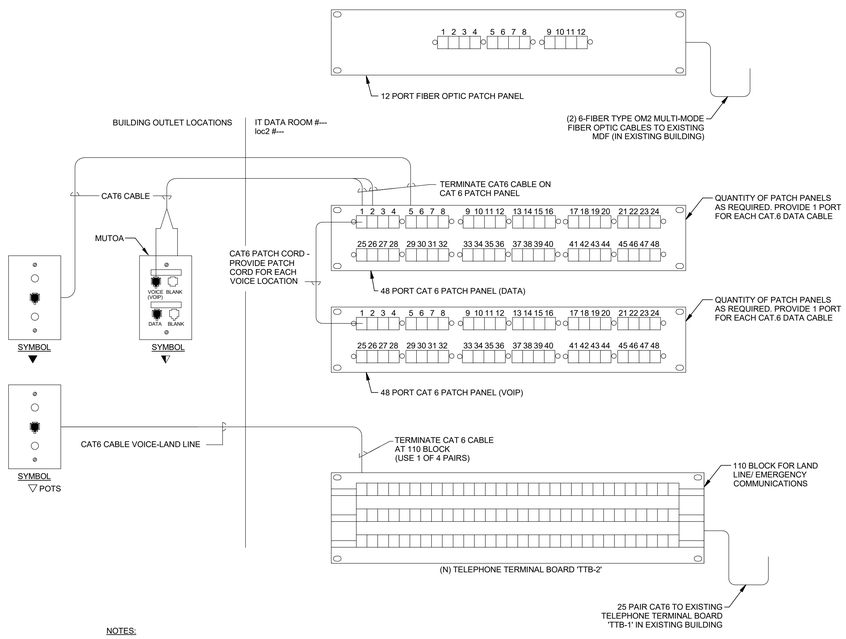
NOTES:
1. REFER TO MECHANICAL/PLUMBING FOR ADDITIONAL REQUIREMENTS.
2. REFER TO DRAWING E-201-K, NOTE 260638 FOR PB1 CONTROL STATION LOCATION.
3. PROVIDE INSTRUCTION SIGN ABOVE PB1 CONTROL STATION FOR OPERATION INSTRUCTIONS FOR A KITCHEN FIRE EVENT.

3 ANSUL OR EMERGENCY PUSHBUTTON CONTROL WIRING DIAGRAM
E-801 SCALE: N.T.S.



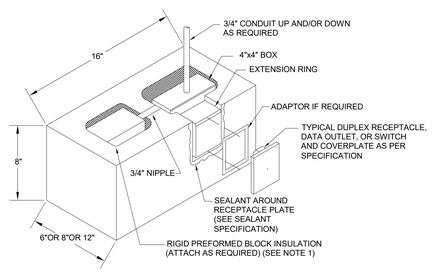
NOTES:
1. QUANTITY 'N' BREAKERS AS INDICATED BY UTILITY DISTRIBUTION PANEL SCHEDULE.
2. REFER TO DETAIL #3 ON DRAWING E-801.

4 SHUNT-TRIP BREAKER WIRING DIAGRAM
E-801 SCALE: N.T.S.



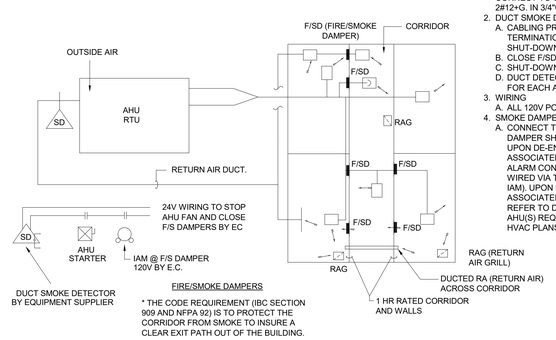
NOTES:
1. CONTRACTOR SHALL FURNISH AND INSTALL MUTOA OUTLETS, CONDUIT,PATCH CORDS, STRUCTURED CABLING, PATCH PANELS ,J-HOOKS, CABLE TRAY, 2-POST OPEN EQUIPMENT RACKS AND RACK ACCESSORIES, ETC...FOR A COMPLETE FUNCTIONING AND CERTIFIED DATA-COMMUNICATION SYSTEM. RACK HEAD-END ELECTRONIC EQUIPMENT (I.E. ROUTERS, POE SWITCHES, POE INJECTORS) SHALL BE FURNISHED AND INSTALLED BY THE OWNER.
2. DOCUMENTS REFLECT BASIS-OF-DESIGN AND SYSTEM PERFORMANCE REQUIREMENTS. PROVIDE SYSTEM COMPONENTS COMPATIBLE WITH EACH OTHER AND OVERALL SYSTEM.
3. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED AND REVIEWED IN ACCORDANCE WITH DIVISION 00 AND DIVISION 01 OF THE SPECIFICATIONS.
4. BICSII INSTALLER LEVEL 2 CERTIFICATION IS REQUIRED FOR INSTALLING CONTRACTOR. TELECOMM DESIGNER SHALL HAVE RCDD CERTIFICATION. PROVIDE DOCUMENTATION OF ALL CERTIFICATIONS FOR ENGINEER REVIEW/APPROVAL PRIOR TO PROCUREMENT/INSTALLATION.
5. SEE ELECTRICAL SYSTEMS PLANS FOR DETAILED LOCATIONS AND MUTOA OUTLETS REQUIRED.

5 TYPICAL HORIZONTAL WIRING DIAGRAM
E-801 SCALE: N.T.S.



NOTES:
1. ADJACENT BOXES FOR TWO ROOMS SHALL BE INSULATED COMPLETELY AROUND BOX AIR SPACE AS INDICATED TO REDUCE SOUND TRANSMISSION THROUGH WALLS.

6 BACK TO BACK OUTLET SOUNDPROOFING DETAIL
E-801 SCALE: N.T.S.

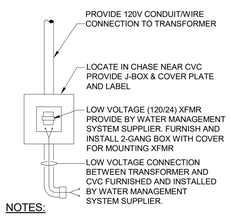


FIRE/SMOKE DAMPERS

* THE CODE REQUIREMENT (IBC SECTION 909 AND NFPA 92) IS TO PROTECT THE CORRIDOR FROM SMOKE TO INSURE A CLEAR EXIT PATH OUT OF THE BUILDING.

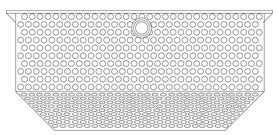
NOTES:
1. F/SD ACTUATORS, 120V, TO BE "POWER OPEN - FAIL CLOSED". POWER SUPPLY BY E.C. CONNECT TO CIRCUIT L2P-19, L2P-21 OR L2P-23 USING 2#12+G. IN 3/4"C.
2. DUCT SMOKE DETECTOR(S) IN AHU(S):
   A. CABLING PROVIDED BY CONTRACTOR. CABLING. TERMINATIONS TO AHU BY T.C.C. INTERLOCK TO SHUT-DOWN AHU UPON SMOKE DETECTION.
   B. CLOSE F/SD UPON SMOKE DETECTION AT AHU.
   C. SHUT-DOWN AHU REFRIGERATION.
   D. DUCT DETECTOR(S) AND REMOTE TEST STATION(S) FOR EACH AHU PROVIDED BY EQUIPMENT SUPPLIER.
3. WIRING
   A. ALL 120V POWER WIRING BY CONTRACTOR.
4. SMOKE DAMPER
   A. CONNECT TO LEGALLY REQUIRED 120VAC BRANCH CIRCUIT. DAMPER SHALL OPEN UPON ENERGIZATION (OR FAIL CLOSED UPON DE-ENERGIZATION). POWER TO SMOKE DAMPER(S) ASSOCIATED WITH AHU SHALL BE CONTROLLED BY THE FIRE ALARM CONTROL PANEL - I.E. THE 120VAC CIRCUIT SHALL BE WIRED VIA THE DRY, FORM C ISOLATION CONTACT (IN THE IAM). UPON DUCT DETECTOR SMOKE DETECTION AS AHU, ASSOCIATED DAMPER(S) SHALL BLOSE (BE DE-ENERGIZED). REFER TO DRAWINGS E-203 AND E-204 FOR LOCATIONS OF AHU(S) REQUIRING DUCT SMOKE DETECTOR(S). REFER TO HVAC PLANS FOR SMOKE DAMPER/DUCTWORK LOCATIONS.

7 TYPICAL FIRE-SMOKE DAMPER WIRING DETAIL
E-801 SCALE: N.T.S.



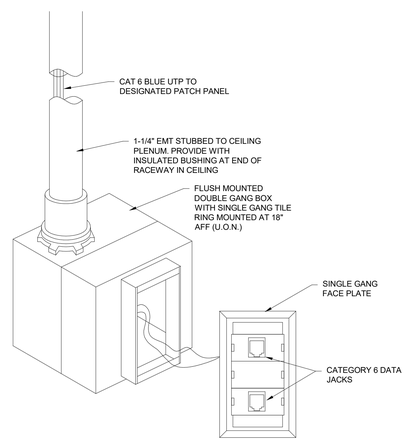
NOTES:
1. SEE GENERAL NOTE G ON DRAWINGS E-201-A, E-201-B, AND E-201-C FOR CIRCUITING REQUIREMENTS.
2. LOW VOLTAGE CONNECTION BETWEEN CVC AND EACH VAVLE SHALL BE FURNISHED AND INSTALLED BY WATER MANAGEMENT SYSTEM SUPPLIER.
3. FURNISH AND INSTALL NETWORK CABLING (CAT.6) AS REQUIRED BY SYSTEM MANUFACTURER BETWEEN EACH CONTROLLER AND CENTRAL PC WORKSTATION.

8 CELL VALVE CONTROLLERS (CVC) CONNECTION DETAIL
E-801 SCALE: N.T.S.



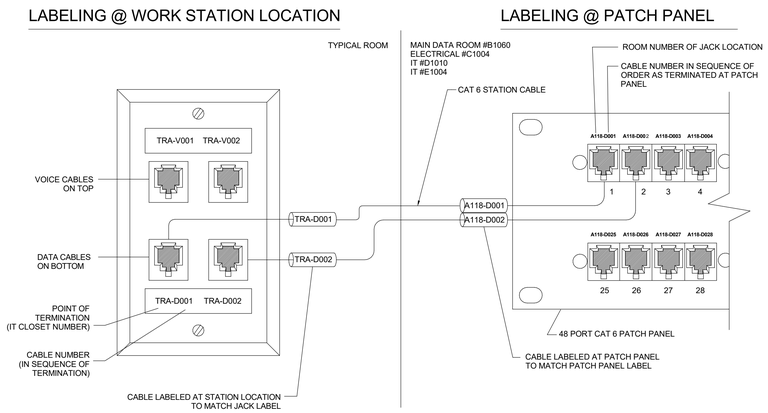
NOTES:
1. DETENTION COVER SHALL BE UL LISTED FOR USE WITH SMOKE DETECTOR. VERIFY WITH SMOKE DETECTOR MFR THAT COVER WILL ALLOW DETECTOR TO FUNCTION PROPERLY.
2. COVER SHALL HAVE CONTINUOUS WELD.
3. COVER SHALL BE 16 GUAGE STEEL WITH PERFORATED HOLES. PROVIDE 3/16" PERFORATED HOLES ON 1/2" CENTERS. SECURE COVER WITH TORX TYPE SCREWS.
4. COVER SHALL BE NATIONALLY RECOGNIZED TESTING LABORATORIES (NRTL) LISTED.

9 SMOKE DETECTOR DETENTION COVER DETAIL
E-801 SCALE: N.T.S.



NOTE:
CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM

10 TYPICAL 2-PORT DATA DETAIL
E-801 SCALE: N.T.S.



11 TYPICAL JACK CABLE AND PATCH PANEL LABELING DIAGRAM
E-801 SCALE: N.T.S.

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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PROFESSIONAL ENGINEER PE60016675 STATE OF INDIANA

NO.	REVISION	DATE

DRAWN: RDW CHKD: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

ELECTRICAL DETAILS

DRAWING NUMBER E-801
ELECTRICAL

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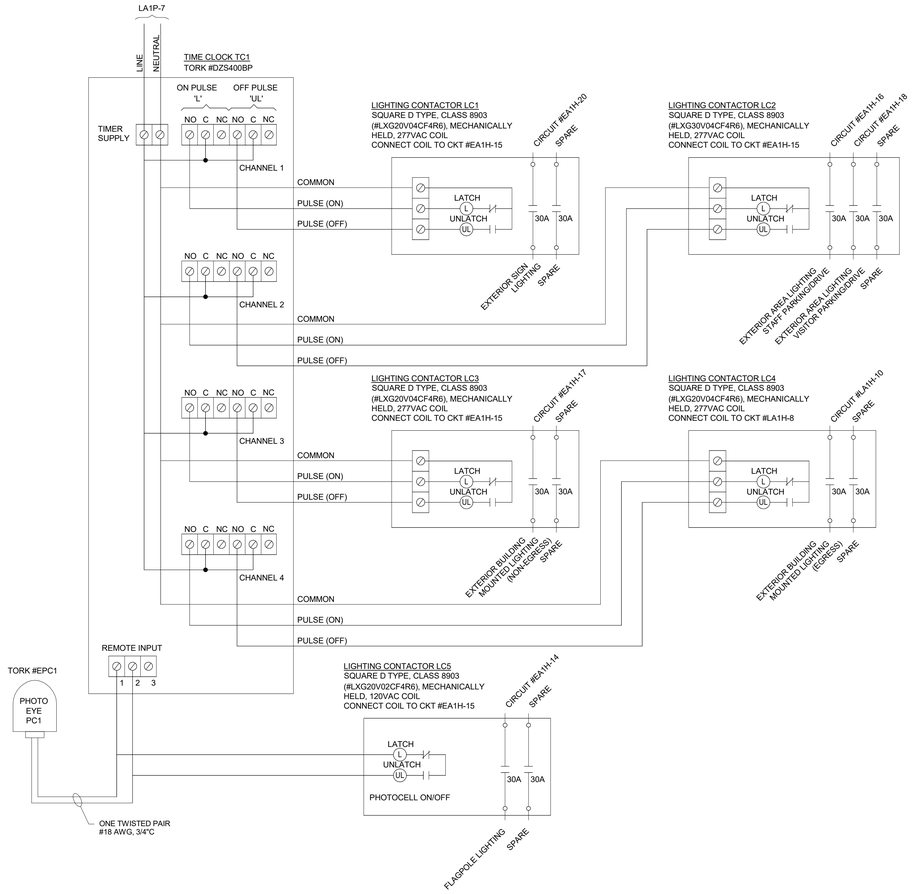
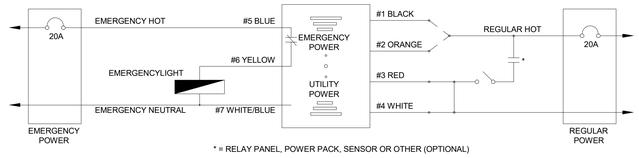
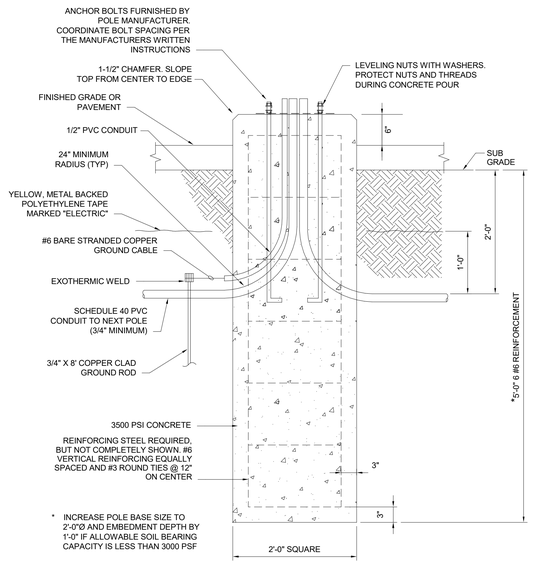


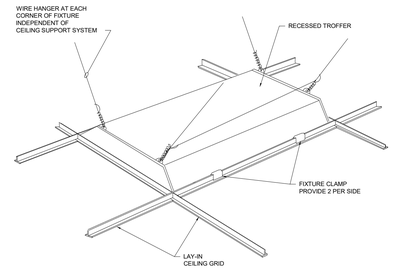
1 E-802 **EXTERIOR LIGHTING WIRING DIAGRAM**
SCALE: N.T.S.



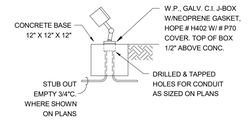
2 E-802 **EMERGENCY POWER CONTROL MODULE WIRING DIAGRAM**
SCALE: N.T.S.



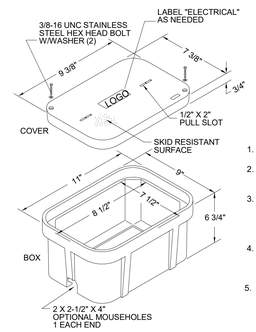
3 E-802 **LIGHTING POLE FOUNDATION DETAIL**
SCALE: N.T.S.



4 E-802 **TYPICAL RECESSED FIXTURE MOUNTING DETAIL**
SCALE: N.T.S.



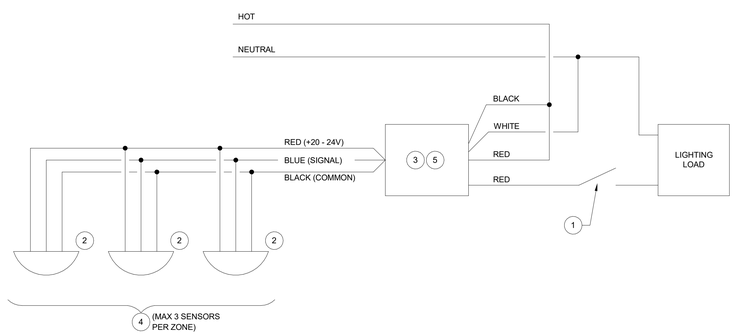
5 E-802 **TYPICAL FLOOD LIGHT CONCRETE BASE DETAIL**
SCALE: N.T.S.



6 E-802 **ELECTRIC HANDHOLE DETAIL**
SCALE: N.T.S.

GENERAL NOTES:

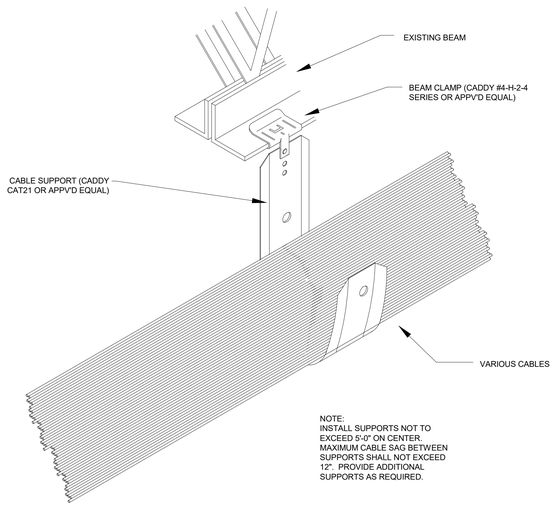
1. COVER LOGO TO STATE "ELECTRICAL" OR "COMMUNICATIONS".
2. TIER 22 BOX AND COVER TO BE MANUFACTURER BY HUBBELL/QUAZITE (OR EXACT EQUAL APPROVED BY ENGINEER).
3. POWER CABLE SPLICES (AS APPROVED BY ENGINEER) SHALL BE WATER RESISTANT. USE GEL FILL WIRE NUTS (I.E. IDEAL OR APPROVED EQUAL) WITH MASTIC TAPE WRAPPED AROUND SPLICES FOR WATERTIGHT SEAL (I.E. 3M OR APPROVED EQUAL).
4. PROVIDE SOLID BOTTOM FOR RODENT RESISTANCE. HANDHOLE SHALL HAVE BITUMINOUS COATING ON THE EXTERIOR TO MINIMIZE WATER PENETRATION.
5. REFER TO DRAWING E-101 FOR PULLBOX LOCATIONS.



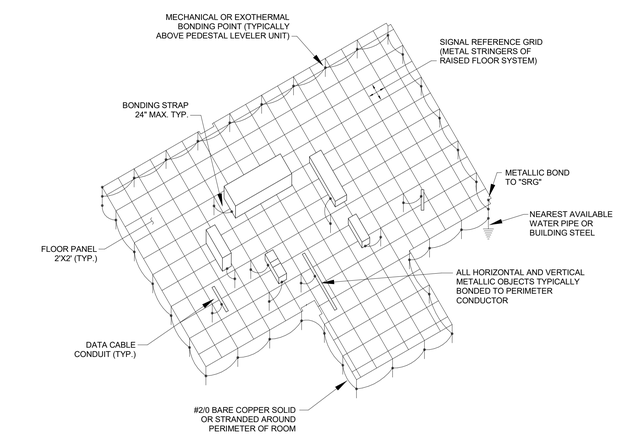
CODED NOTES:

1. FURNISH AND INSTALL MANUAL OFF OVERRIDE SWITCH(S) WHERE INDICATED ON PLANS.
2. FURNISH AND INSTALL CEILING MOUNT DUAL SENSOR (INFRARED, ULTRASOUND) OCCUPANCY SENSOR. SEE LIGHTING PLAN FOR LOCATIONS. FIELD ADJUST 0-30 MINUTE TIME DELAY ON SENSOR PER OWNER'S WRITTEN INSTRUCTION.
3. POWER PACK WITH HEAVY DUTY CONTACT AND RELAY CONTROL.
4. ALL CONTROL WIRING SHALL BE NOT LESS THAN 2#14, #14G., 1/2"C., U.O.N.
5. TRANSFORMER, POWER PACK AND ALL ASSOCIATED COMPONENTS SHALL BE INSTALLED IN A NEMA APPROVED BOX.

7 E-802 **OCCUPANCY SENSOR WIRING DETAIL**
SCALE: N.T.S.



8 E-802 **TYPICAL J-HOOK CABLE SUPPORT DETAIL**
SCALE: N.T.S.



9 E-802 **RAISED FLOOR GROUDING DETAIL**
SCALE: N.T.S.

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MARVIN L. HITCHCOCK REGISTERED PE60016675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ELECTRICAL DETAILS

DRAWING NUMBER E-802
ELECTRICAL

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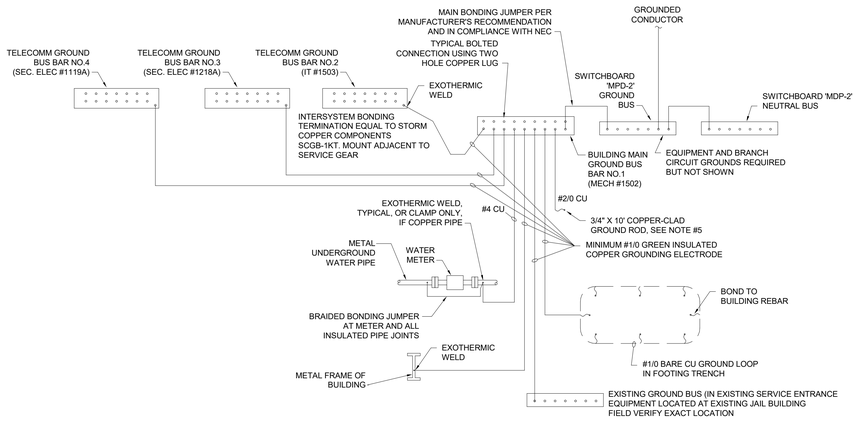
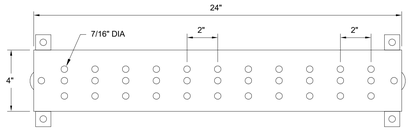


NOTES:

1. ALL WIRE SIZES SHOWN ARE MINIMUM SIZE TO BE INSTALLED. ALL GROUNDING ELECTRODE CONDUCTOR SIZES SHALL CONFORM TO NEC ARTICLE 250-94.
2. FURNISH AND INSTALL BRAIDED BONDING JUMPERS AT ALL JOINTS AND TO BUILDING STEEL.
3. WHERE MORE THAN ONE METAL UNDERGROUND WATER PIPE ENTERS THE BUILDING, BOND TO ALL ENTRIES.
4. ALL UNDERGROUND/BURIED GROUND RODS AND GROUNDING ELECTRODE CONDUCTORS SHALL BE AT LEAST 18" BELOW GRADE.
5. GROUND RODS SHALL BE INSTALLED PER NEC ARTICLE 250.53G. THE FULL LENGTH OF THE ELECTRODE SHALL BE IN CONTACT WITH SOIL. THE ELECTRODE SHALL BE BURIED IN TRENCH A MINIMUM OF 30" DEEP WITH THE UPPER END OF THE ELECTRODE FLUSH WITH OR BELOW GROUND LEVEL UNLESS PROTECTED.

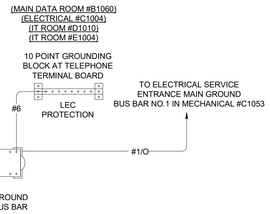
1 SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM SCHEMATIC
E-803 SCALE: N.T.S.



NOTES:

1. PROVIDE 1/4"D x 4"H x 2'-0"L COPPER GROUND BUS BAR WITH INSULATED WALL BRACKET ASSEMBLY. ERICO EGB-A-14-4-24-CC OR APPROVED EQUAL AS SPECIFIED. PREDRILLED NEMA BOLT CONFIGURATION AS INDICATED. PROVIDE BRASS METAL NAME TAGS ON EACH GROUNDING CABLE INDICATING IDENTIFYING TAG OF EQUIPMENT BEING GROUNDED. TERMINATE GROUNDING CABLE WITH NEMA TWO-HOLE BOLTED LUG.
2. REFER TO EQUIPMENT PLANS FOR GROUNDING CABLE SIZES, QUANTITIES AND EQUIPMENT DESCRIPTIONS.

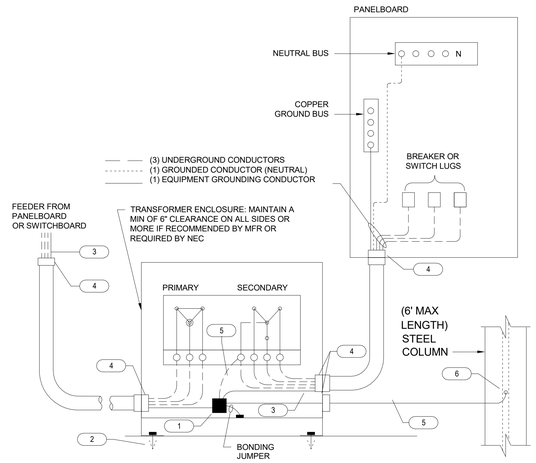
2 BUILDING GROUND BUS BAR DETAIL
E-803 SCALE: N.T.S.



NOTE:

1. CONTRACTOR SHALL FIELD COORDINATE BEST LOCATION WITHIN EACH IT ROOM.

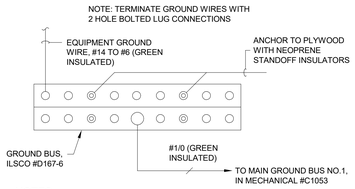
4 TELECOMMUNICATIONS GROUNDING DETAIL
E-803 SCALE: N.T.S.



x TRANSFORMER GROUNDING NOTES:

1. BOND TO TRANSFORMER FRAME WITH BURNDY KC CONNECTOR OR A/E APPROVED EQUAL (IF NONE PROVIDED).
2. BOLT SOLIDLY FOR TRANSFORMER WITH INTEGRAL CORE SOUND ISOLATION OR SOLID FILL. OTHERWISE, SUPPORT ON KORFUND AND ISOLATION BOLTS. PROVIDE SUITABLE METAL FRAMING TO SUPPORT WALL OR CEILING MOUNTED UNIT.
3. EQUIPMENT GROUNDING/ELECTRODE INTERCONNECTION CONDUCTOR - SIZE PER NEC TABLE 250-122 FOR FEEDER OR OVERCURRENT PROTECTION.
4. GROUNDING BUSHING.
5. GROUNDING ELECTRODE CONDUCTOR, COPPER ONLY, SIZE PER NEC ARTICLE 250 AND TABLE 250-66.
6. BOND TO AVAILABLE GROUNDING ELECTRODE IN COMPLIANCE WITH NEC 250-30 (7). IF BONDING TO BUILDING STEEL USE EXOTHERMIC WELD.

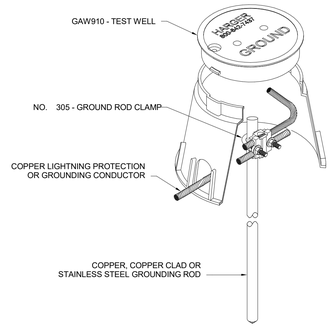
6 GROUNDING AT DISTRIBUTION TRANSFORMER DETAIL
E-803 SCALE: N.T.S.



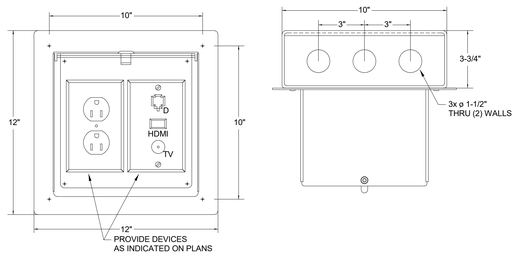
NOTES:

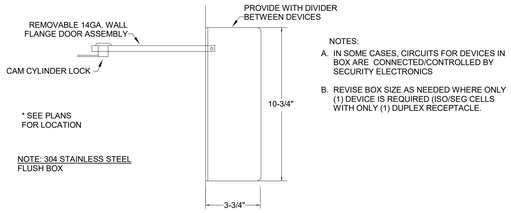
1. PROVIDE BRASS METAL NAME TAGS ON EACH GROUNDING CABLE INDICATING IDENTIFYING TAG OF EQUIPMENT BEING GROUNDED. TERMINATE GROUNDING CABLE WITH NEMA TWO-HOLE BOLTED LUG.

3 TYPICAL TELECOMM GROUND BUS DETAIL
E-803 SCALE: N.T.S.



5 GROUND TEST WELL DETAIL
E-803 SCALE: N.T.S.



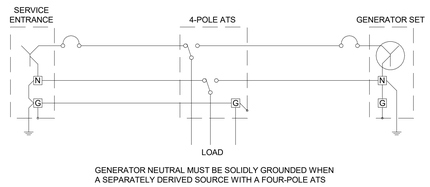


NOTES:

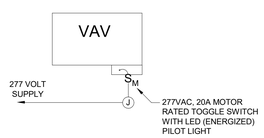
A. IN SOME CASES, CIRCUITS FOR DEVICES IN BOX ARE CONNECTED/CONTROLLED BY SECURITY ELECTRONICS

B. REVISE BOX SIZE AS NEEDED WHERE ONLY (1) DEVICE IS REQUIRED (ISO/SEG CELLS WITH ONLY (1) DUPLEX RECEPTACLE.

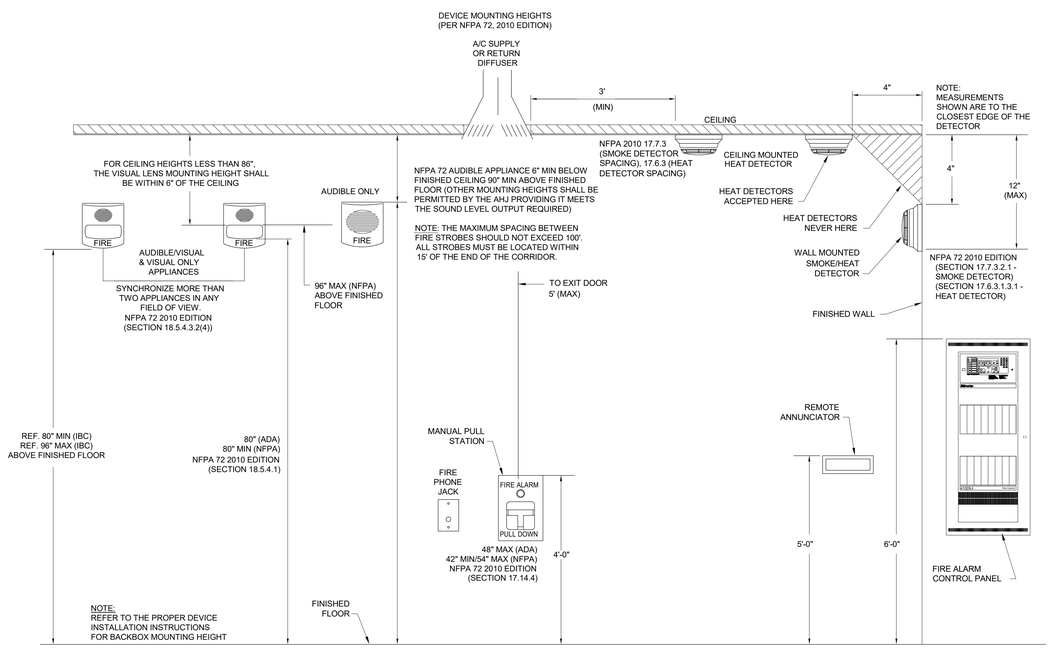
7 CUSTOM MOUNTED FLUSH BOX DETAIL
E-803 SCALE: N.T.S.



8 THREE PAHSE, FOUR WIRE UTILITY, FOUR POLE ATS GROUNDING SCHEME
E-803 SCALE: N.T.S.



9 TYPICAL FP-VAV BOX WIRING SCHEMATIC
E-803 SCALE: N.T.S.



10 FIRE ALARM DEVICES - MOUNTING REQUIREMENTS PER NFPA 72
E-803 SCALE: N.T.S.

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A NEW
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DRAWING NUMBER E-803
ELECTRICAL

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GENERAL NOTES

A. ALL NEW FIRE ALARM DETECTION AND NOTIFICATION DEVICES SHALL BE ADDRESSABLE.

B. AT EACH AREA INDICATED, ALL FIRE DETECTION DEVICES (I.E. MANUAL PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS, DUCT SMOKE DETECTORS, SPRINKLER TAMPER/FLOW/PRESSURE, ETC.) SHALL BE WIRED TO A SEPARATE INDEPENDENT ZONE AS INDICATED.

C. AT EACH AREA INDICATED, ALL FIRE NOTIFICATION DEVICES (I.E. HORNS, STROBES, ETC.) SHALL BE WIRED TO A SEPARATE INDEPENDENT ZONE AS INDICATED.

(#) KEY NOTES

1. 120V FROM LEGALLY REQUIRED PANELBOARD (PROVIDE RED BREAKER LOCK KIT TO HOLD BREAKER IN "ON" POSITION FOR 20A/1P BREAKER.

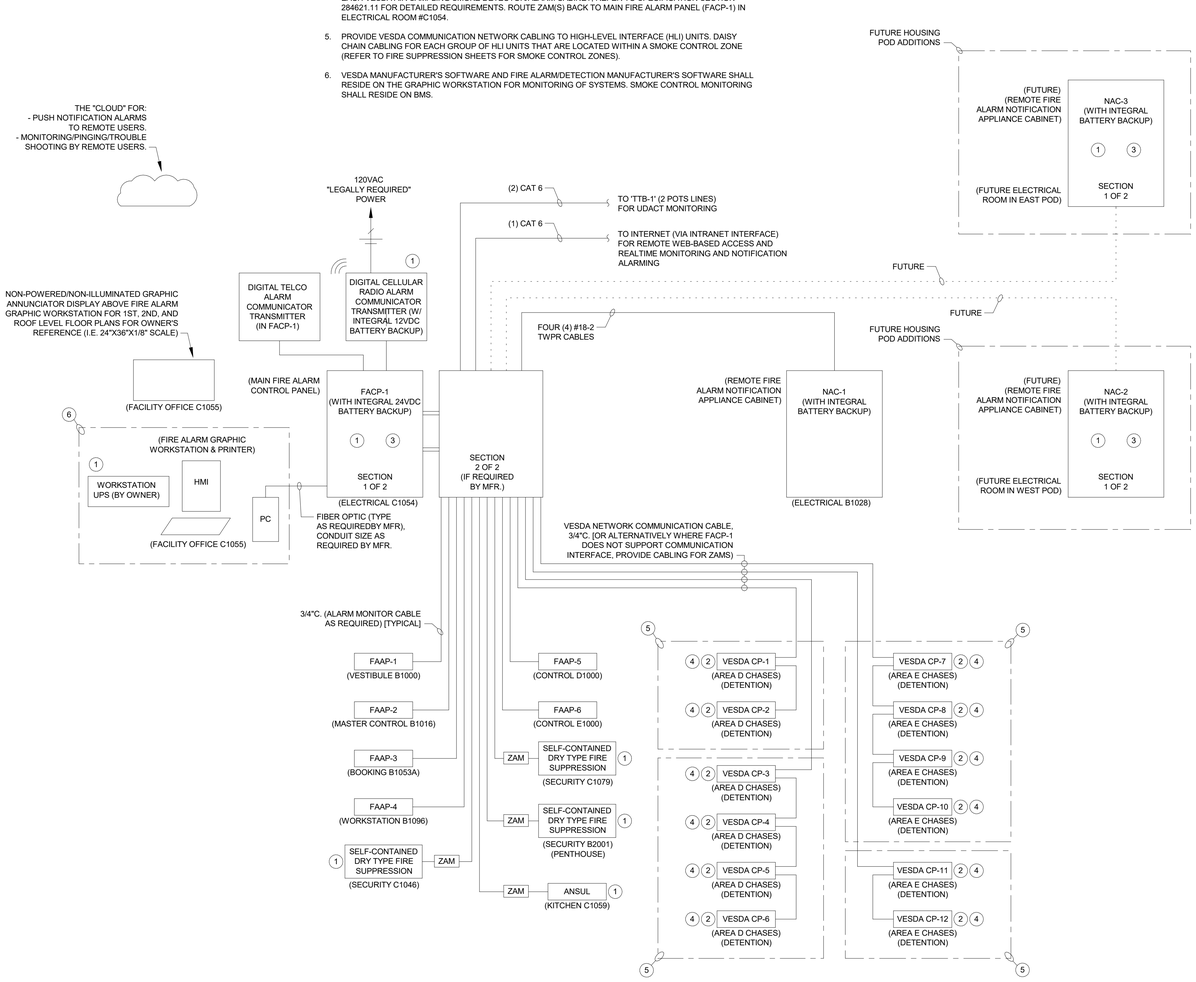
2. PROVIDE BATTERY/BATTERY CHARGER CABINET AT EACH VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET. 24VDS POWER FOR EACH VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET SHALL BE PROVIDED AT THIS ADJACENT BATTERY/BATTERY CHARGER CABINET. PROVIDE 120VAC POWER TO THE BATTERY/BATTERY CHARGER CABINET FROM A LEGALLY REQUIRED PANELBOARD (PROVIDE RED BREAKER LOCK KIT TO HOLD BREAKER IN "ON" POSITION FOR 20A/1P BREAKER.

3. STROBES SYNCHRONIZERS SHALL BE PROVIDED FOR ALL FACP/NAC PANELS FOR BUILDING-WIDE SYNCHRONIZATION.

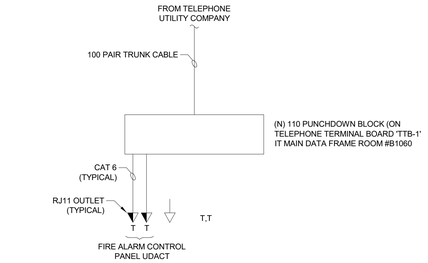
4. PROVIDE HIGH-LEVEL-INTERFACE (HLI) AT EACH VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET FOR VESDA COMMUNICATION NETWORK. CONNECT TO ADJACENT VESDA CABINETS WITHIN A SMOKE CONTROL ZONE AND HOMERUN BACK TO MAIN FIRE ALARM CONTROL PANEL (FACP-1) IN ELECTRICAL ROOM #C1054. [ALTERNATVIVELY, WHERE FACP-1 IS NOT SUPPORTED BY THE VESDA COMMUNICATIONS NETWORK, PROVIDE ONE (1) ZAM (FOR MONITORING SMOKE DETECTION ALARM) FOR EACH SMOKE DETECTION SAMPLING POINT ALARM. PROVIDE ONE (1) ZAM (FOR MONITORING GENERAL ALARMS SUCH AS TROUBLE, CLEAN FILTER, ETC.) EACH VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET; REFER TO SPECIFICATION SECTION 284621.11 FOR DETAILED REQUIREMENTS. ROUTE ZAM(S) BACK TO MAIN FIRE ALARM PANEL (FACP-1) IN ELECTRICAL ROOM #C1054.

5. PROVIDE VESDA COMMUNICATION NETWORK CABLING TO HIGH-LEVEL INTERFACE (HLI) UNITS. DAISY CHAIN CABLING FOR EACH GROUP OF HLI UNITS THAT ARE LOCATED WITHIN A SMOKE CONTROL ZONE (REFER TO FIRE SUPPRESSION SHEETS FOR SMOKE CONTROL ZONES).

6. VESDA MANUFACTURER'S SOFTWARE AND FIRE ALARM/DETECTION MANUFACTURER'S SOFTWARE SHALL RESIDE ON THE GRAPHIC WORKSTATION FOR MONITORING OF SYSTEMS. SMOKE CONTROL MONITORING SHALL RESIDE ON BMS.



4 E-804 **FIRE ALARM NETWORK/COMMUNICATION DIAGRAM**
SCALE: N.T.S.

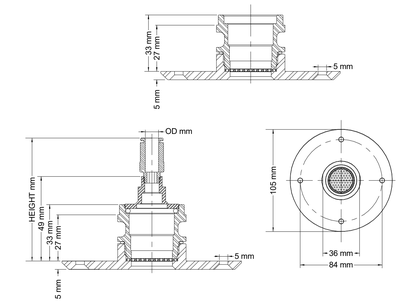


GENERAL NOTES

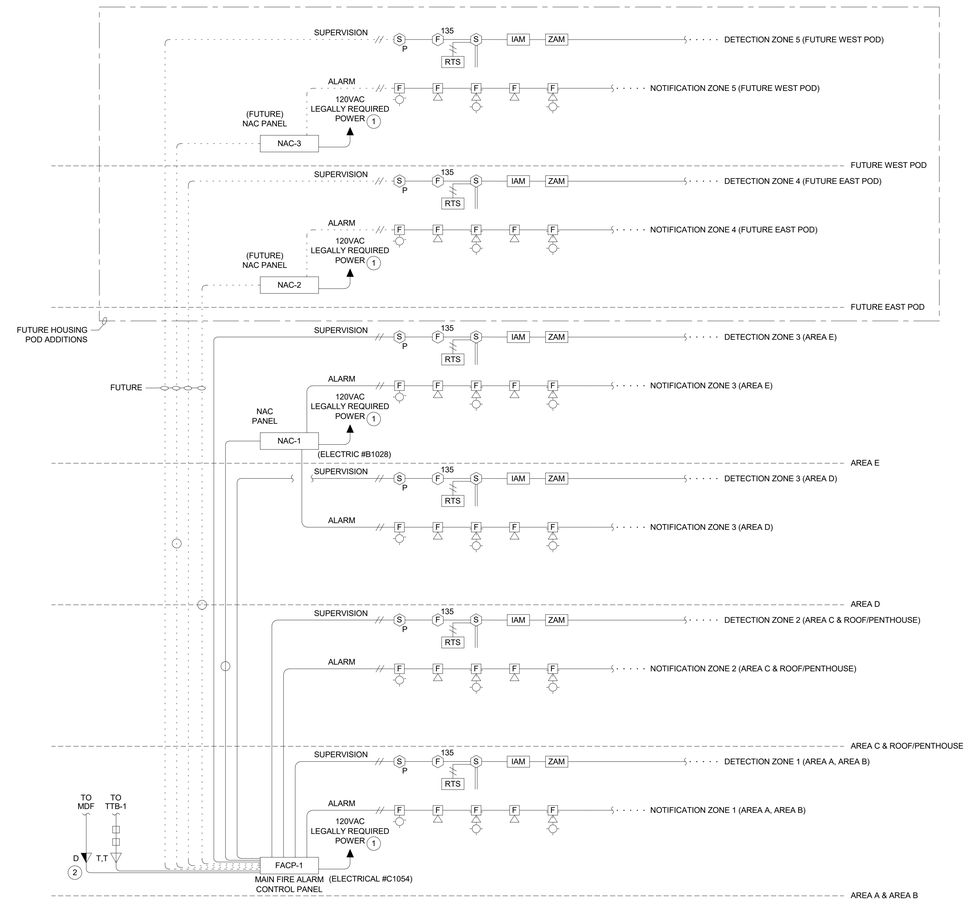
A. FIELD COORDINATE WITH TELEPHONE UTILITY AND ACTIVATE OUTSIDE TELEPHONE UTILITY LINES WHERE REQUIRED. FIELD COORDINATE WITH OWNER TO DETERMINE THE HOUSE POTS LINES THAT SHALL BE DEDICATED AND/OR THAT SHALL BE SHARED. FIELD COORDINATE WITH FACP VENDOR FOR ACTIVATION OF THE VENDOR'S RESPECTIVE POTS LINES.

B. FOR WORKSTATIONS INDICATED, THE POTS SHALL SERVE AS BACK-UP TO VOIP.

3 E-804 **PLAIN OLD TELEPHONE SYSTEM (POTS) RISER DIAGRAM**
SCALE: N.T.S.



2 E-804 **FLUSH MOUNT, TAMPER-PROOF ASPIRATING SMOKE DETECTOR SAMPLING PORT**
SCALE: N.T.S.



WIRING LEGEND

- TWO (2) TWISTED PAIR PLENUM FIRE ALARM CABLE (FPLP), SOLID OR STRANDED, UNSHIELDED WIRE. ONE (1) TWPR #14 FOR 24V POWER AND ONE (1) TWPR #18 FOR COMMUNICATIONS, 3/4"C (PAINTED RED)
- FOUR (4) #18-2 TWPR CABLES
- ONE (1) CATEGORY 6 CABLES
- ONE (1) TWISTED PAIR PLENUM FIRE ALARM CABLE (FPLP), SOLID OR STRANDED, UNSHIELDED WIRE. 3/4"C. (PAINTED RED)

GENERAL NOTES

A. ALL NEW FIRE ALARM DETECTION AND NOTIFICATION DEVICES SHALL BE ADDRESSABLE.

B. AT EACH AREA INDICATED, ALL FIRE DETECTION DEVICES (I.E. MANUAL PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS, DUCT SMOKE DETECTORS, SPRINKLER TAMPER/FLOW/PRESSURE, ETC.) SHALL BE WIRED TO A SEPARATE INDEPENDENT ZONE AS INDICATED.

C. AT EACH AREA INDICATED, ALL FIRE NOTIFICATION DEVICES (I.E. HORNS, STROBES, ETC.) SHALL BE WIRED TO A SEPARATE INDEPENDENT ZONE AS INDICATED.

(#) KEY NOTES

1. 120V FROM LEGALLY REQUIRED PANELBOARD (PROVIDE RED BREAKER LOCK KIT TO HOLD BREAKER IN "ON" POSITION FOR 20A/1P BREAKER.

2. PROVIDE (1) DATA OUTLET AT FIRE ALARM CONTROL PANEL FOR INTRANET/INTERNET CONNECTION FOR VPN REMOTE WEB (CLOUD) BASED ACCESS FOR PUSH NOTIFICATIONS OF ALARMS TO REMOTE USERS (I.E. MAINTENANCE PERSONNEL LAPTOPS, TABLETS, MOBILE PHONES, ETC.). ALSO, CLOUD BASED SOFTWARE IS AVAILABLE BY MANUFACTURER FOR REAL-TIME REMOTE MONITORING/PINGING/TROUBLESHOOTING OF FIRE ALARM CONTROL PANEL FROM REMOTE USERS (I.E. SERVICE TECHNICIAN LAPTOP, MAINTENANCE PERSONNEL LAPTOP, ETC.).

1 E-804 **FIRE ALARM/DETECTION SYSTEM RISER DIAGRAM**
SCALE: N.T.S.

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DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RDW CHKD: MLH
DESIGNED: RDW, TKF
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ELECTRICAL DETAILS

DRAWING NUMBER E-804 ELECTRICAL

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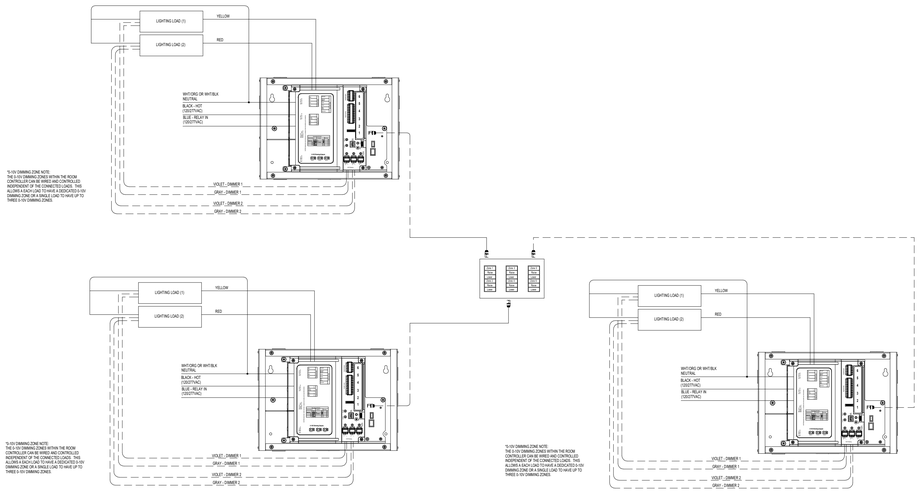
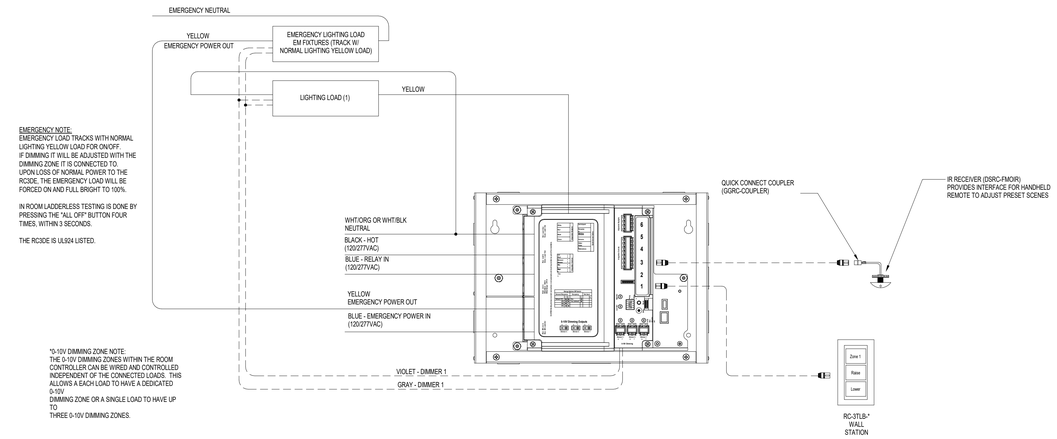
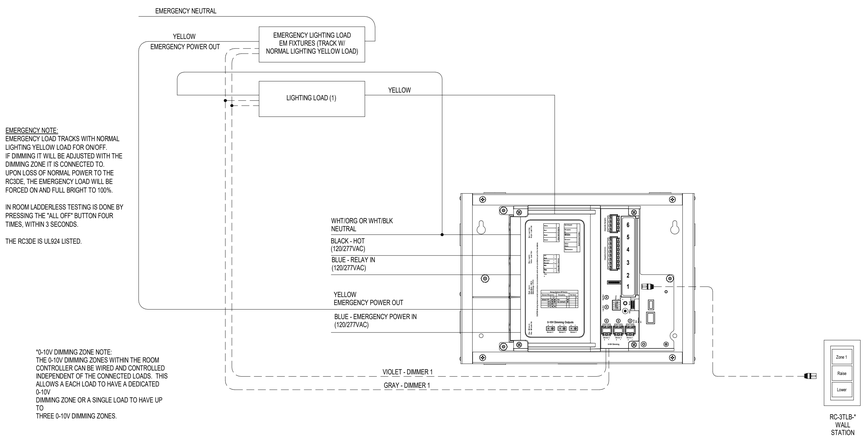


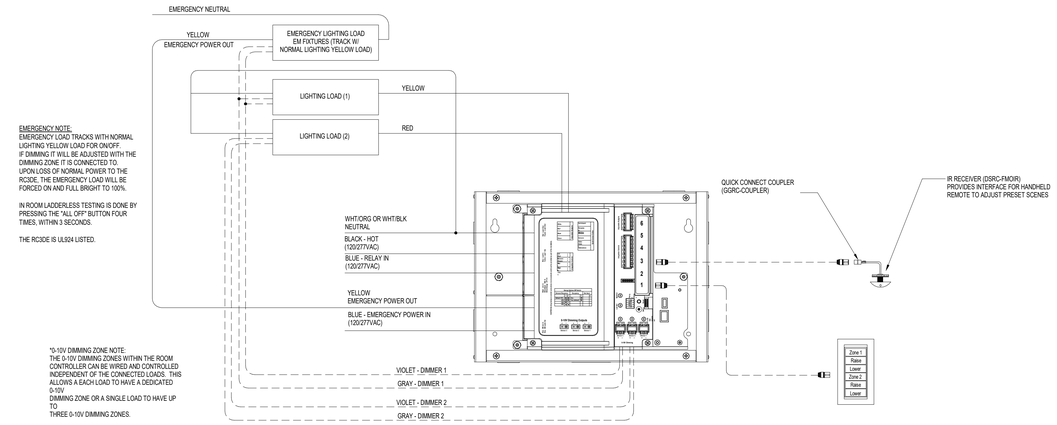
6 **TRAINING ROOM C1034**
E-805 SCALE: N.T.S.



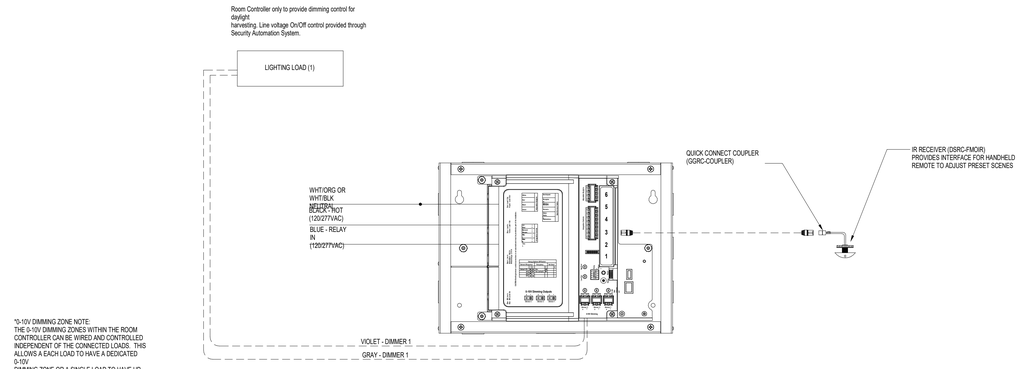
3 **DAYROOM B1037**
E-805 SCALE: N.T.S.



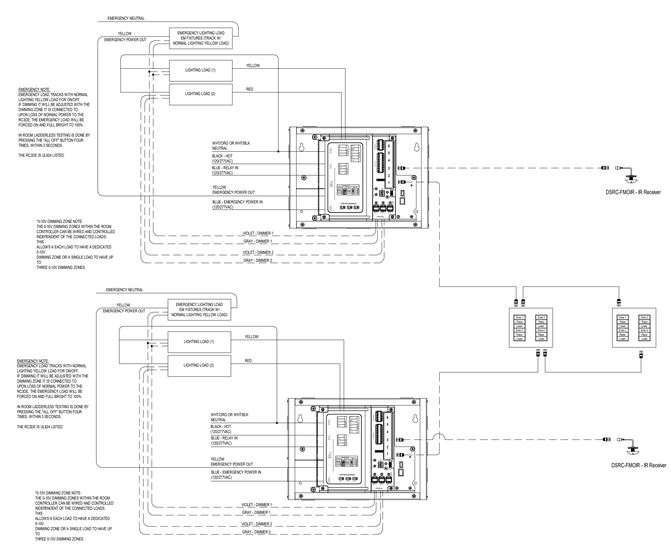
5 **MASTER CONTROL B1016**
E-805 SCALE: N.T.S.



2 **MALE MEDICAL DAYROOM B1095 AND FEMALE DAYROOM C1034**
E-805 SCALE: N.T.S.



4 **HOUSING PODS**
E-805 SCALE: N.T.S.



1 **INTAKE CENTER/BOOKING COUNTER B1053**
E-805 SCALE: N.T.S.

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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PROFESSIONAL ENGINEER PE60019675 STATE OF INDIANA

NO.	REVISION	DATE

DRAWN: RGW CHK'D: MLH
DESIGNED: RGW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ELECTRICAL DETAILS

DRAWING NUMBER E-805
ELECTRICAL

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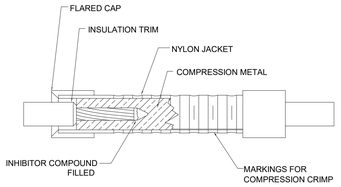
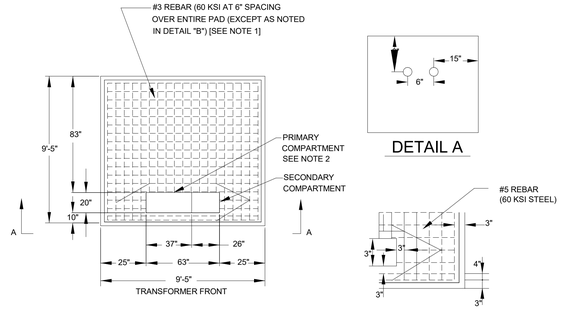
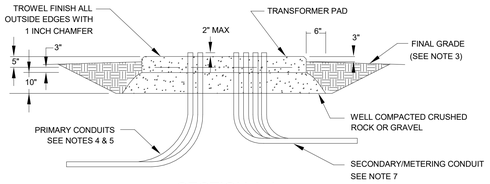


7 INSULATING DUCT DETAIL
E-806 SCALE: N.T.S.



PLAN

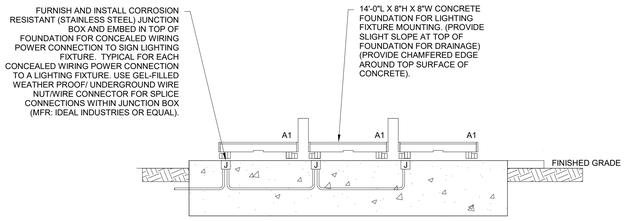


SECTION A-A

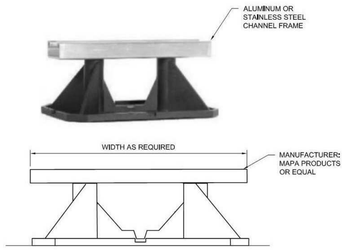
NOTES:

1. PROVIDE 3,500 PSI CONCRETE WITH A MINIMUM 3 INCH COVER OVER ALL REBAR, WIRE MESH WITH A MINIMUM CROSS SECTIONAL AREA OF 0.176 SQUARE INCHES PER FOOT OF PAD WIDTH MAY BE USED IN PLACE OF REBAR.
2. FOR PRIMARY COMPARTMENT CONDUIT PLACEMENT DIMENSIONS FOR RADIAL FEED TRANSFORMERS. REFER TO DETAIL "A".
3. FINAL GRADE SHALL BE ESTABLISHED BEFORE INSTALLATION OF PAD.
4. CONDUIT SHALL BE FLEXIBLE (REF. NO. 2115). TYPE EB (REF. NO. 2100) OR DB (REF. NO.2121) PVC CONDUIT WITH 90° 38 INCH RADIUS BENDS (REF. NO. 2152). TO AVOID DISTURBING THE GROUND UNDER THE REAR OF THE PAD AND TO MINIMIZE SETTLING. BRING CONDUITS TO THE FRONT OR SIDES WHENEVER POSSIBLE AND MARK THE CONDUIT END LOCATIONS.
5. BURIAL DEPTH IS DEFINED AS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE BURIED CABLE OR CONDUIT. PRIMARY CABLES SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 3'-0" AND SECONDARY CABLES SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 2'-6". IT IS RECOMMENDED THAT PRIMARY CABLES AND SECONDARY CABLES MAINTAIN BURIAL DEPTHS OF 2'-6" AND 2'-0" RESPECTIVELY: THE INTIAL 3'-0" AND 2'-6" BURIAL DEPTHS ARE TO ALLOW FOR CHANGES IN SURFACE CONDITIONS.
6. CONTACT TYLER ANGLE, DUKE ENERGY 48 HOURS PRIOR TO POURING CONCRETE TO INSPECT THE PAD. TELEPHONE #(812-231-8721)
7. DUKE ENERGY SUPPLIES: (CONTRACTOR PICKS UP AND INSTALLS)
   1-METER SOCKET
   2-4" PVC ELBOWS 90° 36" RADIUS
   2-10' SECTIONS SCH. 80 PVC

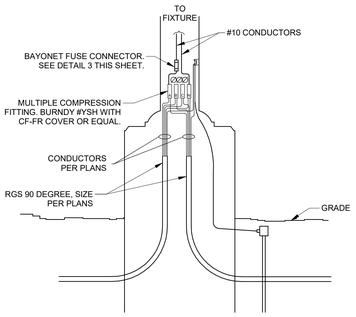
4 SERVICE TRANSFORMER UT1 CONCRETE PAD INSTALLATION DETAIL
E-806 SCALE: N.T.S.



10 CONCRETE FOUNDATION FOR MONUMENT SIGN LIGHTING
E-806 SCALE: N.T.S.



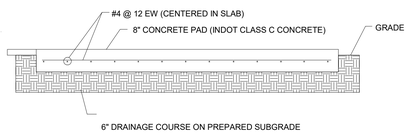
6 ROOF CONDUIT SUPPORT DETAIL
E-806 SCALE: N.T.S.



NOTES:

1. PROVIDE SUFFICIENT CONDUCTOR SLACK TO PERMIT WITHDRAWAL OF THE CONDUCTOR THROUGH THE HANDHOLE.
2. ADD BAYONET FUSE CONNECTOR.

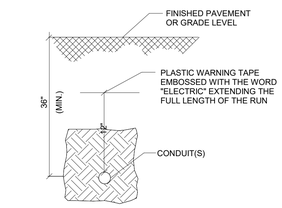
12 POLE WIRING DETAIL - 1
E-806 SCALE: N.T.S.



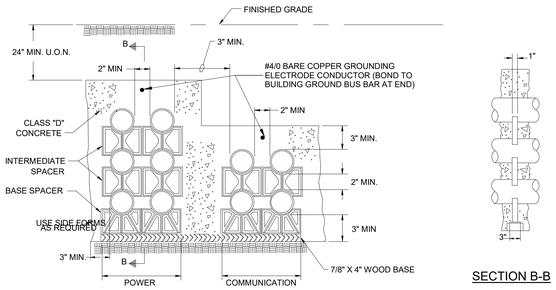
NOTES:

1. COORDINATE LOCATION AND SIZE OF EQUIPMENT PAD WITH SIGN LIGHTING. SEE DETAIL 1 THIS SHEET.

9 SIGN LIGHTING EQUIPMENT PAD DETAIL - MONUMENT SIGN
E-806 SCALE: N.T.S.

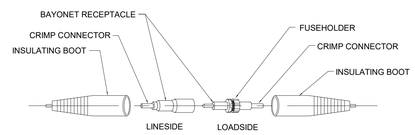


5 DIRECT BURIED CONDUIT DETAIL
E-806 SCALE: N.T.S.

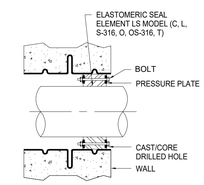


SECTION A-A

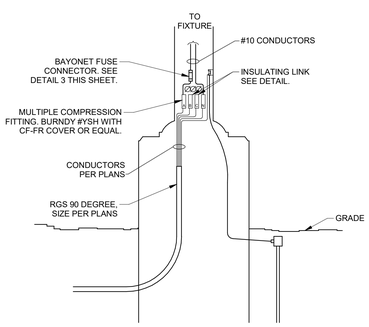
SECTION B-B



3 BAYONET FUSE CONNECTOR DETAIL
E-806 SCALE: N.T.S.



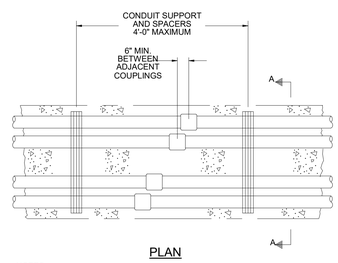
2 LINK SEAL DETAIL - OUTDOOR PENETRATIONS THROUGH BELOW GRADE EXTERIOR WALL
E-806 SCALE: N.T.S.



NOTES:

1. PROVIDE SUFFICIENT CONDUCTOR SLACK TO PERMIT WITHDRAWAL OF THE CONDUCTOR THROUGH THE HANDHOLE.
2. ADD BAYONET FUSE CONNECTOR.

11 POLE WIRING DETAIL - 2
E-806 SCALE: N.T.S.

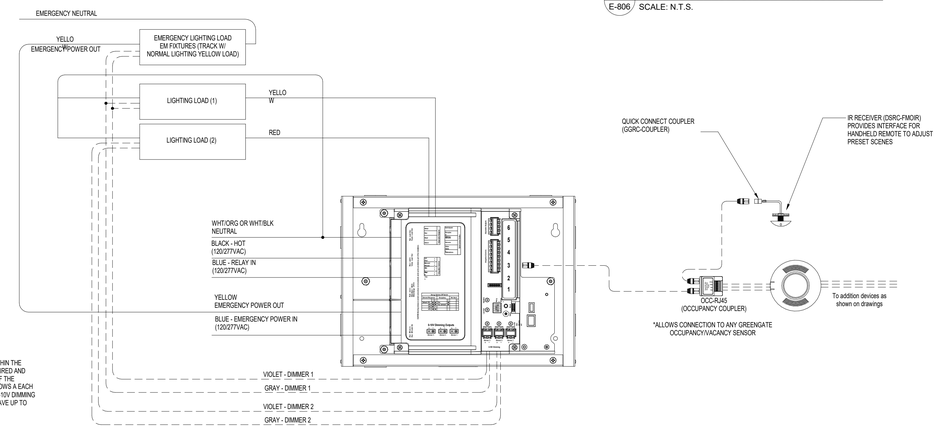


PLAN

NOTES:

1. SEE PLANS FOR SIZE AND NUMBER OF CONDUITS AND DUCT BANK ARRANGEMENT.
2. REINFORCING BARS SHALL BE ASTM A-615, GRADE 60.
3. ALL CONCRETE SHALL BE STONE CONCRETE (45 PCF MIN.) AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

8 CONCRETE ENCASED DUCTBANK DETAIL
E-806 SCALE: N.T.S.



EMERGENCY NOTE:
EMERGENCY LOAD TRACKS WITH NORMAL LIGHTING YELLOW LOAD FOR ON/OFF.
IF DIMMING IT WILL BE ADJUSTED WITH THE DIMMING ZONE IT IS CONNECTED TO.
UPON LOSS OF NORMAL POWER TO THE RC3DE, THE EMERGENCY LOAD WILL BE FORCED ON AND FULL BRIGHT TO 100%.

IN ROOM LADDERLESS TESTING IS DONE BY PRESSING THE "ALL OFF" BUTTON FOUR TIMES, WITHIN 3 SECONDS.

THE RC3DE IS UL924 LISTED.

*0-10V DIMMING ZONE NOTE:
THE 0-10V DIMMING ZONES WITHIN THE ROOM CONTROLLER CAN BE WIRED AND CONTROLLED INDEPENDENT OF THE CONNECTED LOADS. THIS ALLOWS A EACH LOAD TO HAVE A DEDICATED 0-10V DIMMING ZONE OR A SINGLE LOAD TO HAVE UP TO THREE 0-10V DIMMING ZONES.

1 VESTIBULE B1000 AND LOBBY B1001
E-806 SCALE: N.T.S.

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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PE60019675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ELECTRICAL DETAILS

DRAWING NUMBER E-806
ELECTRICAL

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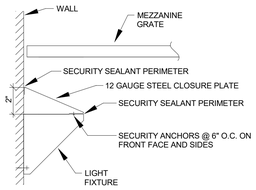
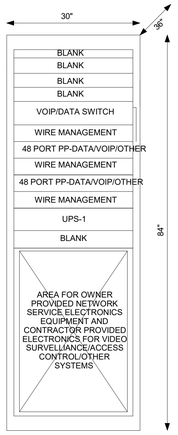


NOTES:
1. PAINT CLOSURE PLATE TO MATCH FIXTURE

4 / E-807 FIXTURE BELOW GRATING MOUNTING DETAIL
SCALE: N.T.S.



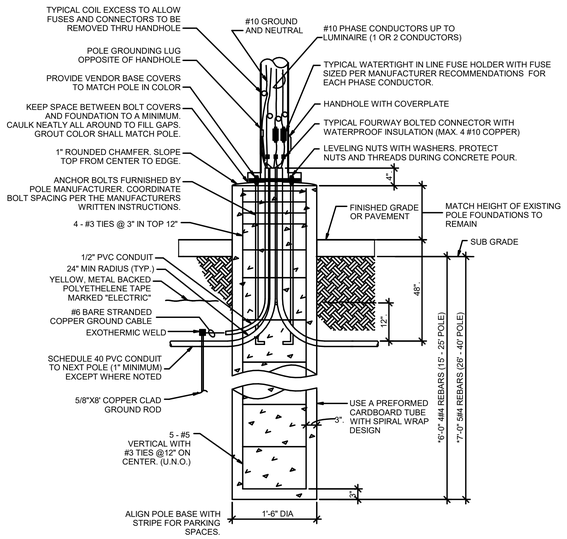
RACK - #1

TELECOM EQUIPMENT SCHEDULE			
Mfr	Qty	Part No.	Device Description
MOHAWK	AS REQ'D	M58281	CAT 6 - BLUE - 1.000 FT BOX
PANDUIT	AS REQ'D	DP48688TG	48 PORT PATCH PANEL (CAT 6)
PANDUIT	AS REQ'D	UTPSP4xxx	CAT 6 PATCH CORD - BLUE - 48"
PANDUIT	AS REQ'D	UTPSP10xxx	CAT 6 PATCH CORD - BLUE - 10 FT
PANDUIT	AS REQ'D	CFPS4EI	FACE PLATE
PANDUIT	AS REQ'D	CHS2IW-X	SLOPED PORT MODULE
PANDUIT	AS REQ'D	CHB2IW-X	BLANK INSERT
PANDUIT	AS REQ'D	KWP6PY	PHONE OUTLET
PANDUIT	AS REQ'D	CJ688TGBU	CAT 6 JACK - BLUE
PANDUIT	AS REQ'D	CJ688TGOR	CAT 6 JACK - ORANGE (PHONE)
PANDUIT	AS REQ'D	CMBIW-X	SNAP IN BLANK. 10 PACK
CADDY	AS REQ'D	CAT3224	J-HOOK
MAP	1	R4CN-4536B	OPEN EQUIPMENT RACK (84"Hx36"D)
MAP	2	PD-2X620J	POWER STRIP
MAP	1	MRK-Z4	SEISMIC COMPLIANCY FLOOR ANCHOR BOLTS
PANDUIT	AS REQ'D	-	WIRING DUCT (COLOR: BLACK)
MAP	AS REQ'D	-	ACCESSORIES (RAILS, SHELVES, HARDWARE, FASTENERS, CABLE MANAGEMENT) AS REQUIRED)
LIEBERT	AS REQ'D	-	UNINTERRUPTIBLE POWER SUPPLY

GENERAL NOTES:

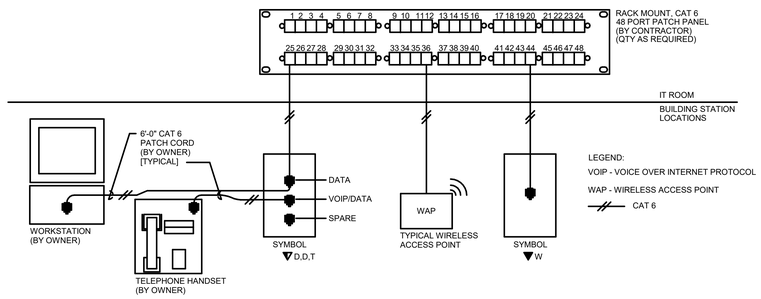
1. TOTAL CABLES FOR THIS RACK ARE BASED ON TOTAL DATA AND PHONE CABLES FOR EACH DEVICE AS NOTED ON THE SYSTEM PLANS.
2. EXACT RACK LAYOUT TO BE REVIEWED AND DISCUSSED WITH OWNER REPRESENTATIVE PRIOR TO MOUNTING DEVICES WITHIN FLOOR MOUNTED RACK.
3. DOCUMENTS REFLECT BASIS-OF-DESIGN AND SYSTEM PERFORMANCE REQUIREMENTS. PROVIDE SYSTEM COMPONENTS COMPATIBLE WITH EACH OTHER AND OVERALL SYSTEM.
4. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED AND REVIEWED IN ACCORDANCE WITH DIVISION 00 AND DIVISION 01 OF THE PROJECT MANUAL.
5. BICSI/RCDD CERTIFICATION IS REQUIRED; CONTRACTOR SHALL PROVIDE DOCUMENTATION.
6. MAP (MIDDLE ATLANTA PRODUCTS). LOCAL REPRESENTATIVE IS TERRY RUSNAK (PH: 973-390-4747; EMAIL: TERRENCE.RUSNAK@MIDDLEATLANTIC.COM).
7. FOR RACK MOUNTED EQUIPMENT. PROVIDE SPACE IN RACK TO ACCOMMODATE EQUIPMENT. CONTRACTOR SHALL FURNISH ALL NECESSARY EQUIPMENT INCLUDING POWER STRIPS (POWER DISTRIBUTION UNITS NO. 1 AND NO. 2 WITH SURGE PROTECTION, CABLE MANAGEMENT, PATCH CORDS, ETC) FOR A COMPLETE AND FUNCTIONAL SYSTEM.

2 / E-807 INTERMEDIATE DISTRIBUTION FRAME (IDF) (DATA RACK) (TYPICAL EACH IT ROOM)
SCALE: N.T.S.



NOTE:
BEDROCK MAY BE SHALLOWER THAN 7'-0" AT PILE LOCATIONS. CONTRACTOR MAY USE EITHER FOUNDATION DETAIL AT THEIR OPINION.

3 / E-807 LIGHTING POLE AND FOUNDATION DETAIL - RELOCATED POLES
SCALE: N.T.S.



NOTES:

1. RECEPTACLES (TELEPHONE AND/OR DATA/TELEPHONE), CONDUIT, PATH CABLES, PATCH PANELS, FLOOR STANDING CABINETS, ETC. A COMPLETE FUNCTIONING AND CERTIFIED DATA-COMMUNICATION SYSTEM SHALL BE PROVIDED AND INSTALLED AS REQUIRED.
2. DOCUMENTS REFLECT BASIS-OF-DESIGN AND SYSTEM PERFORMANCE REQUIREMENTS. PROVIDE SYSTEM COMPONENTS COMPATIBLE WITH EACH OTHER AND OVERALL SYSTEM.
3. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED AND REVIEWED IN ACCORDANCE WITH DIVISION 00 AND DIVISION 01 OF THE PROJECT MANUAL.
4. BICSI/RCDD CERTIFICATION IS REQUIRED FOR CABLING LAYOUT AND INSTALLATION. CONTRACTOR SHALL PROVIDE DOCUMENTATION.
5. OWNER HAS REQUESTED SIX (6) POTS LINES FOR NORMAL OPERATIONS. IN ADDITION, PROVIDE TWO (2) DEDICATED POTS LINES FOR FIRE ALARM CONTROL PANEL. PROVIDE ADDITIONAL POTS LINES AS REQUIRED FOR BMS, SECURITY, ETC. FIELD COORDINATE WITH COMMUNICATION UTILITY ON REQUIREMENTS PRIOR TO CONSTRUCTION.
6. FOR DETAILED REQUIREMENTS FOR COMMUNICATIONS HORIZONTAL CABLING, REFER TO SPECIFICATION 271500.

1 / E-807 STRUCTURED CABLING DETAIL - TYPICAL FOR EACH INTERMEDIATE DISTRIBUTION FRAME
SCALE: N.T.S.

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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK REGISTERED PE60016675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE

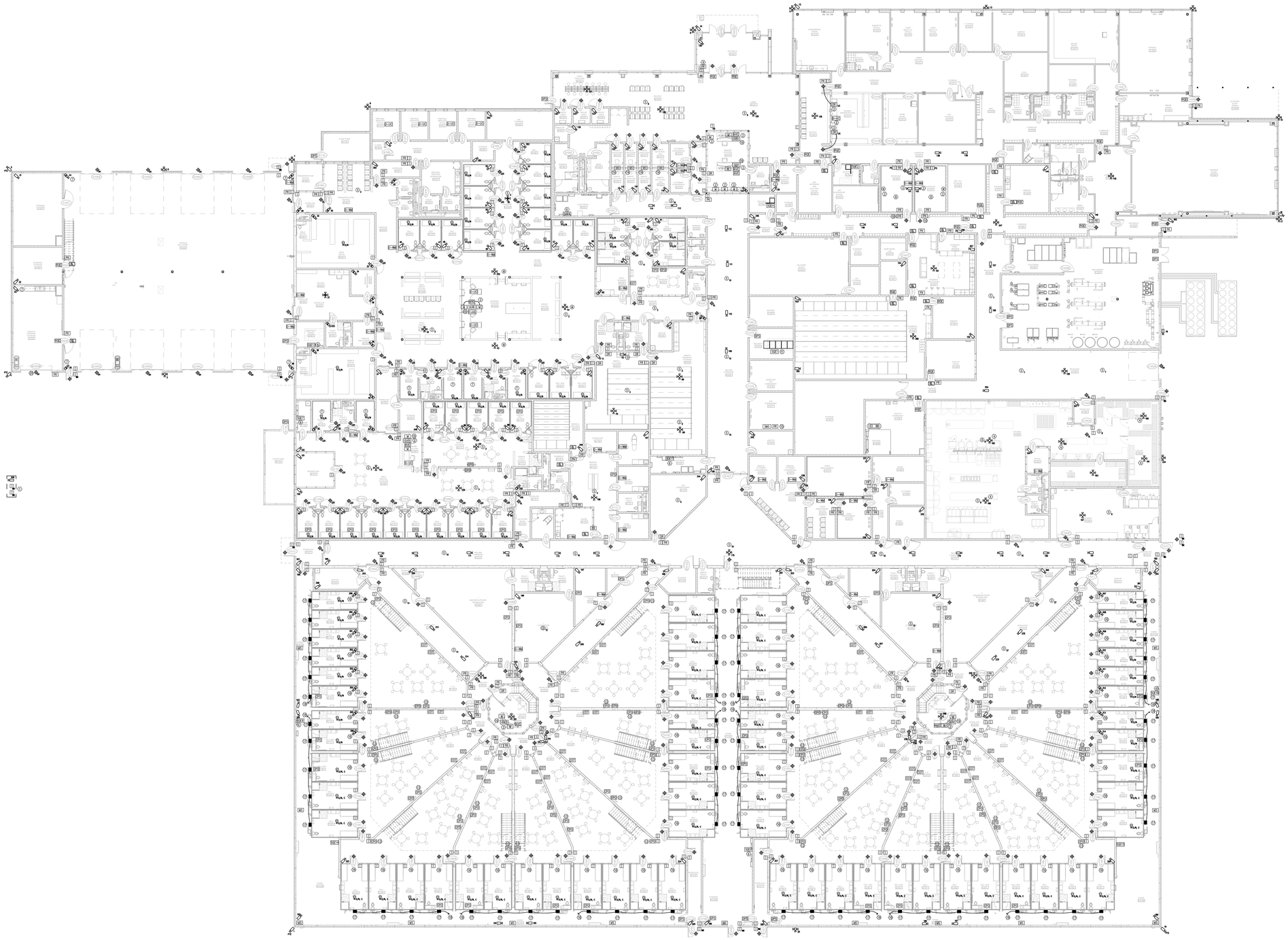
DRAWN: RDW | CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

ELECTRICAL DETAILS

DRAWING NUMBER E-807
ELECTRICAL

C:\users\kkersiens\Documents\1663-VIGO-ELEC_kkersiensWBLRA.rvt
9/4/2019 3:56:18 PM



FIRST FLOOR SECURITY
ELECTRONICS PLAN - OVERALL
1 ES-100 SCALE: 1/16" = 1'-0"
NORTH

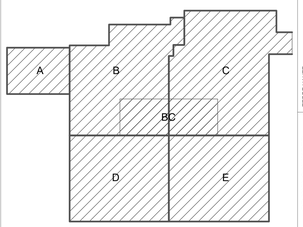
SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CD=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
RQE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
	REMOTE INTERCOM STATION W/CALL SWITCH (WALL-MOUNTED) (WR=WEATHER RESISTANT; HS=WITH INTEGRAL HANDSET, PS=PRIVACY SWITCH)
M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
	SINGLE SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE)
	MULTI-SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
	MULTI-SENSOR 180 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
COT	CONTROLLED OFFENDER TELEPHONE CIRCUIT (REFER TO ELECTRICAL DRAWINGS FOR EXACT PHYSICAL LOCATION OF OUTLET)
	CONTROLLED LIGHTING CIRCUIT (D/N=DAY/NIGHT FUNCTIONALITY, C=CELL GROUP CONTROL)

SECURITY ELECTRONICS NOTES

1. INTERCOM PEDESTAL INSTALLED BY DIV. 26 AND PROVIDED BY DIV. 28 SSI.
2. COORDINATE EXACT LOCATION OF FIELD DEVICE(S) WITH ARCHITECT AND OWNER.
3. "TRANSACTION" CAMERA FOR INMATE PROPERTY STORAGE SYSTEM. CAMERA FIELD OF VIEW SHALL BE FOCUSED ON EQUIPMENT AREA.
4. CAMERA LOCATION SHALL BE COORDINATED WITH ARCHITECT AND OWNER IN RELATION TO KITCHEN EQUIPMENT IN ORDER TO PROVIDE UNOBSTRUCTED VIEWS.
5. COILING DOOR LOCATION. PLC/TOUCHSCREEN SYSTEM SHALL PROVIDE FOR THE CONTROL AND MONITORING OF THE DEVICE.
6. REFERENCE UTILITY CONTROL PANEL SCHEDULES FOR SWITCHING AND RELAY REQUIREMENTS.
7. CAMERA SHALL BE WALL-MOUNTED AND SHALL BE LOCATED AT 12' AFF, OR JUST BELOW GARAGE DOOR (IN OPEN POSITION) AS TO NOT OBSTRUCT CAMERA VIEW.
8. CABLING FOR MICROPHONES AND CAMERAS IN THIS ROOM SHALL TERMINATE TO THE SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004. CAMERA CABLES SHALL BE INTEGRATED WITH CAMERAS.
9. HANDICAP PUSHBUTTON FOR DOOR SHALL INTEGRATE WITH PLC CONTROL SYSTEM. PUSHBUTTON SHALL BE WIRED TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1079.
10. LOCATION OF WALL-MOUNTED KEY-OPERATED ACTIVATION SWITCH AND INDICATING LED FOR INTERVIEW ROOM RECORDING SYSTEM. DEVICE SHALL TERMINATE TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004.
11. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS "A", "B" AND "C" SHALL TERMINATE TO SOE1. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
12. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS D & E SHALL TERMINATE TO SOE3. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
13. CONTROL OF POWER RECEPTACLES IN EACH DAYROOM SHALL BE BY GROUP (EACH DAYROOM WILL BE CONSIDERED A GROUP)
14. VISITATION HANDSET, HEAD-END ELECTRONICS AND CABLING SHALL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR. DIV. 26 SHALL PROVIDE ROUGH-IN FOR HANDSET.
15. READER SHALL BE CONFIGURED AS ENROLLMENT READER FOR ACCESS CONTROL SYSTEM.
16. INTERCOM AND DOOR CONDUIT, WIRE, AND DEVICE PRE-INSTALLED BY STEEL CELL OF NORTH AMERICA AND ROUTED TO SUB PANEL LOCATED AT BACK OF THE CELL.
17. PER N.E.C. CODE, BACK BOX REQUIRES 3' OF CLEARANCE IN FRONT OF BACK BOX AND CLEAR OF OBSTRUCTIONS.
18. ROUTE NETWORK (1 – WEST PENN 4246), AUDIO (1 – WEST PENN 291), AND POWER (2 – WEST PENN 224) TO SECURITY EQUIPMENT ENCLOSURE LOCATION #3 (SOE3).
19. SSI SHALL PROVIDE CONTROL OF WATER VALVES FOR CELLS FROM THE GUI STATIONS. SSI SHALL REFERENCE DIV. 22 SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
20. LOCAL CONTROL ONLY. NO ICONS SHALL BE PLACED ON GUI SYSTEM FOR CONTROL/MONITORING.

KEY PLAN



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DLZ INDIANA, LLC

NO.	REVISION	DATE

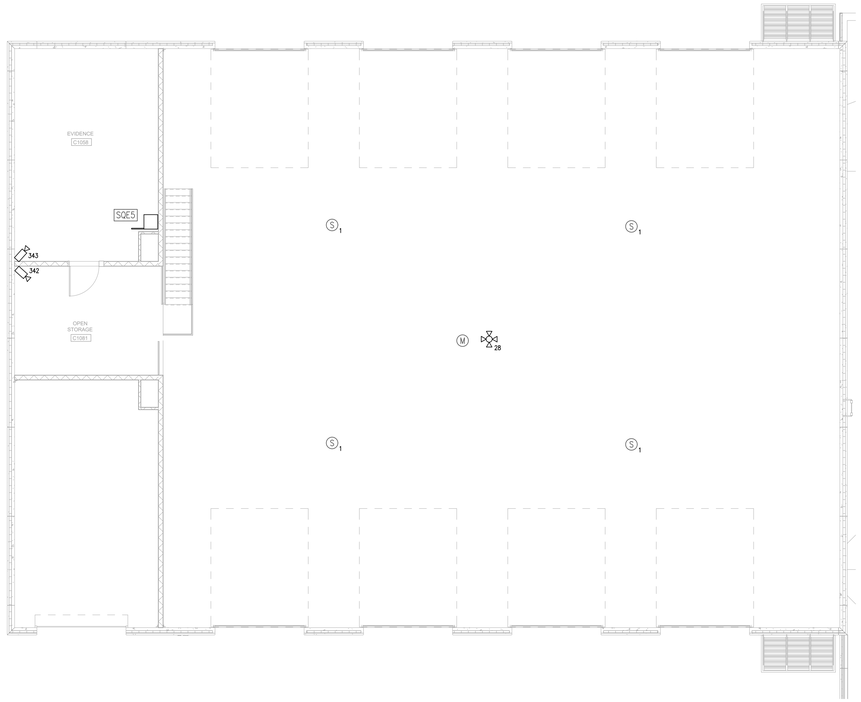
DRAWN: RMT CHK'D: CAG
DESIGNED: RMT
APPRV'D: ERR
DATE: SEPTEMBER 3, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

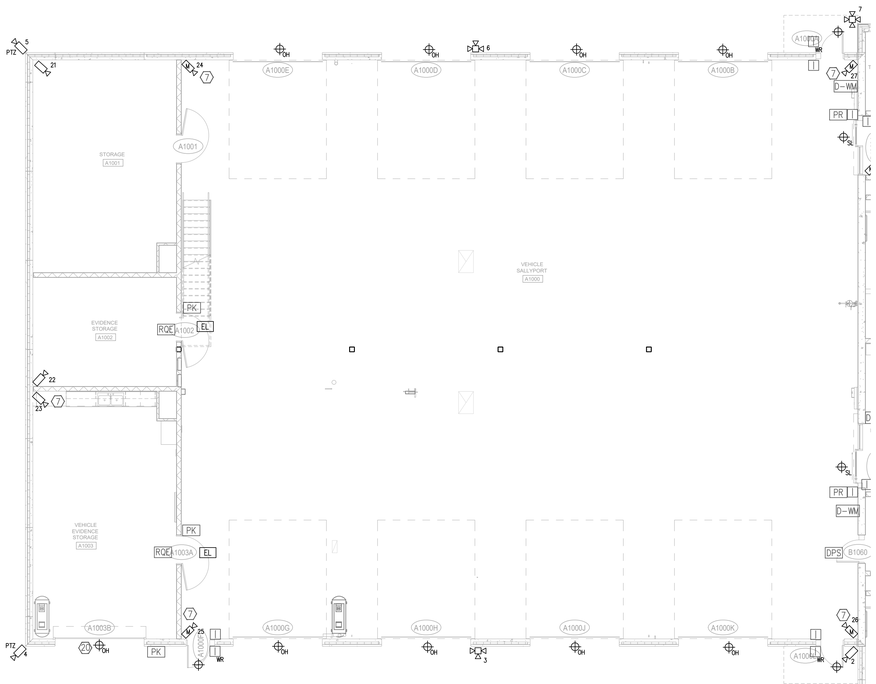
FIRST FLOOR SECURITY ELECTRONICS PLAN - OVERALL

TERRE HAUTE INDIANA

DRAWING NUMBER
ES-100
SECURITY ELECTRONICS



2 ES-101 **MEZZANINE SECURITY ELECTRONICS PLAN - AREA A**
SCALE: 1/8" = 1'-0"
NORTH



1 ES-101 **FIRST FLOOR SECURITY ELECTRONICS PLAN - AREA A**
SCALE: 1/8" = 1'-0"
NORTH

SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CD=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
ROE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
	REMOTE INTERCOM STATION W/CALL SWITCH (WALL-MOUNTED) (WR=WEATHER RESISTANT; HS=WITH INTEGRAL HANDSET, PS=PRIVACY SWITCH)
M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
	SINGLE SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE)
	MULTI-SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
	MULTI-SENSOR 180 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
COT	CONTROLLED OFFENDER TELEPHONE CIRCUIT (REFER TO ELECTRICAL DRAWINGS FOR EXACT PHYSICAL LOCATION OF OUTLET)
	CONTROLLED LIGHTING CIRCUIT (D/N=DAY/NIGHT FUNCTIONALITY, C=CELL GROUP CONTROL)

SECURITY ELECTRONICS NOTES

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2. COORDINATE EXACT LOCATION OF FIELD DEVICE(S) WITH ARCHITECT AND OWNER.
3. "TRANSACTION" CAMERA FOR INMATE PROPERTY STORAGE SYSTEM. CAMERA FIELD OF VIEW SHALL BE FOCUSED ON EQUIPMENT AREA.
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12. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS D & E SHALL TERMINATE TO SQE3. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
13. CONTROL OF POWER RECEPTACLES IN EACH DAYROOM SHALL BE BY GROUP (EACH DAYROOM WILL BE CONSIDERED A GROUP)
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18. ROUTE NETWORK (1 – WEST PENN 4246), AUDIO (1 – WEST PENN 291), AND POWER (2 – WEST PENN 224) TO SECURITY EQUIPMENT ENCLOSURE LOCATION #3 (SQE3).
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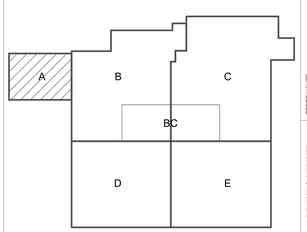
20. LOCAL CONTROL ONLY. NO ICONS SHALL BE PLACED ON GUI SYSTEM FOR CONTROL/MONITORING.

KEY PLAN



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DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RMT CHK'D: CAG
DESIGNED: RMT
APPRV'D: ESR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

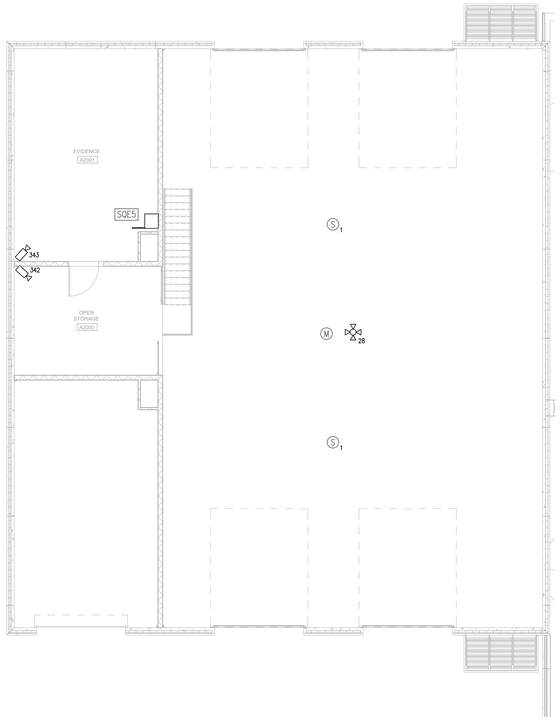
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST AND MEZZANINE FLOOR SECURITY ELECTRONICS PLAN - AREA A

TERRE HAUTE INDIANA

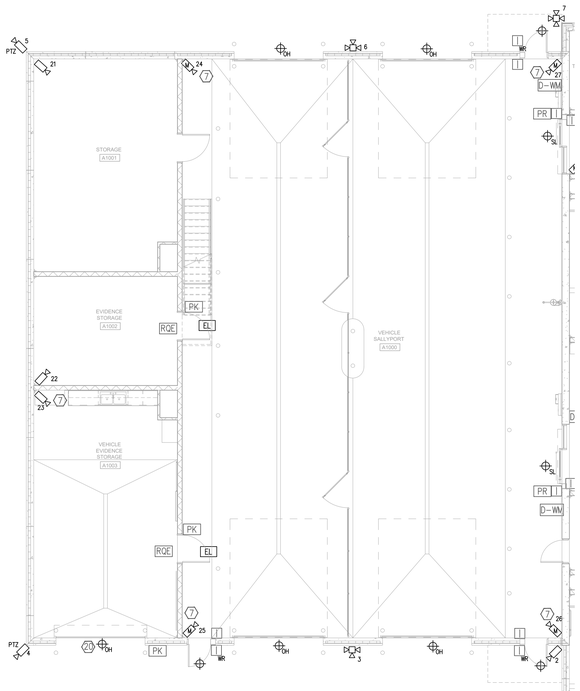
DRAWING NUMBER ES-101

SECURITY ELECTRONICS



NORTH

2 ES-101A **MEZZANINE SECURITY ELECTRONICS PLAN - AREA "A" ALTERNATE BID**
SCALE: 1/8" = 1'-0"



NORTH

1 ES-101A **FIRST FLOOR SECURITY ELECTRONICS PLAN - AREA "A" ALTERNATE BID**
SCALE: 1/8" = 1'-0"

SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CD=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
RQE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
	REMOTE INTERCOM STATION W/CALL SWITCH (WALL-MOUNTED) (WR=WEATHER RESISTANT; HS=WITH INTEGRAL HANDSET, PS=PRIVACY SWITCH)
M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
	SINGLE SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE)
	MULTI-SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
	MULTI-SENSOR 180 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
COT	CONTROLLED OFFENDER TELEPHONE CIRCUIT (REFER TO ELECTRICAL DRAWINGS FOR EXACT PHYSICAL LOCATION OF OUTLET)
	CONTROLLED LIGHTING CIRCUIT (D/N=DAY/NIGHT FUNCTIONALITY, C=CELL GROUP CONTROL)

SECURITY ELECTRONICS NOTES

1. INTERCOM PEDESTAL INSTALLED BY DIV. 26 AND PROVIDED BY DIV. 28 SSI.
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3. "TRANSACTION" CAMERA FOR INMATE PROPERTY STORAGE SYSTEM. CAMERA FIELD OF VIEW SHALL BE FOCUSED ON EQUIPMENT AREA.
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16. INTERCOM AND DOOR CONDUIT, WIRE, AND DEVICE PRE-INSTALLED BY STEEL CELL OF NORTH AMERICA AND ROUTED TO SUB PANEL LOCATED AT BACK OF THE CELL.
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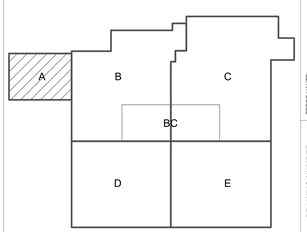
18. ROUTE NETWORK (1 – WEST PENN 4246), AUDIO (1 – WEST PENN 291), AND POWER (2 – WEST PENN 224) TO SECURITY EQUIPMENT ENCLOSURE LOCATION #3 (SQE3).
19. SSI SHALL PROVIDE CONTROL OF WATER VALVES FOR CELLS FROM THE GUI STATIONS. SSI SHALL REFERENCE DIV. 22 SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
20. LOCAL CONTROL ONLY. NO ICONS SHALL BE PLACED ON GUI SYSTEM FOR CONTROL/MONITORING.

KEY PLAN



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DLZ INDIANA, LLC

NO.	REVISION	DATE

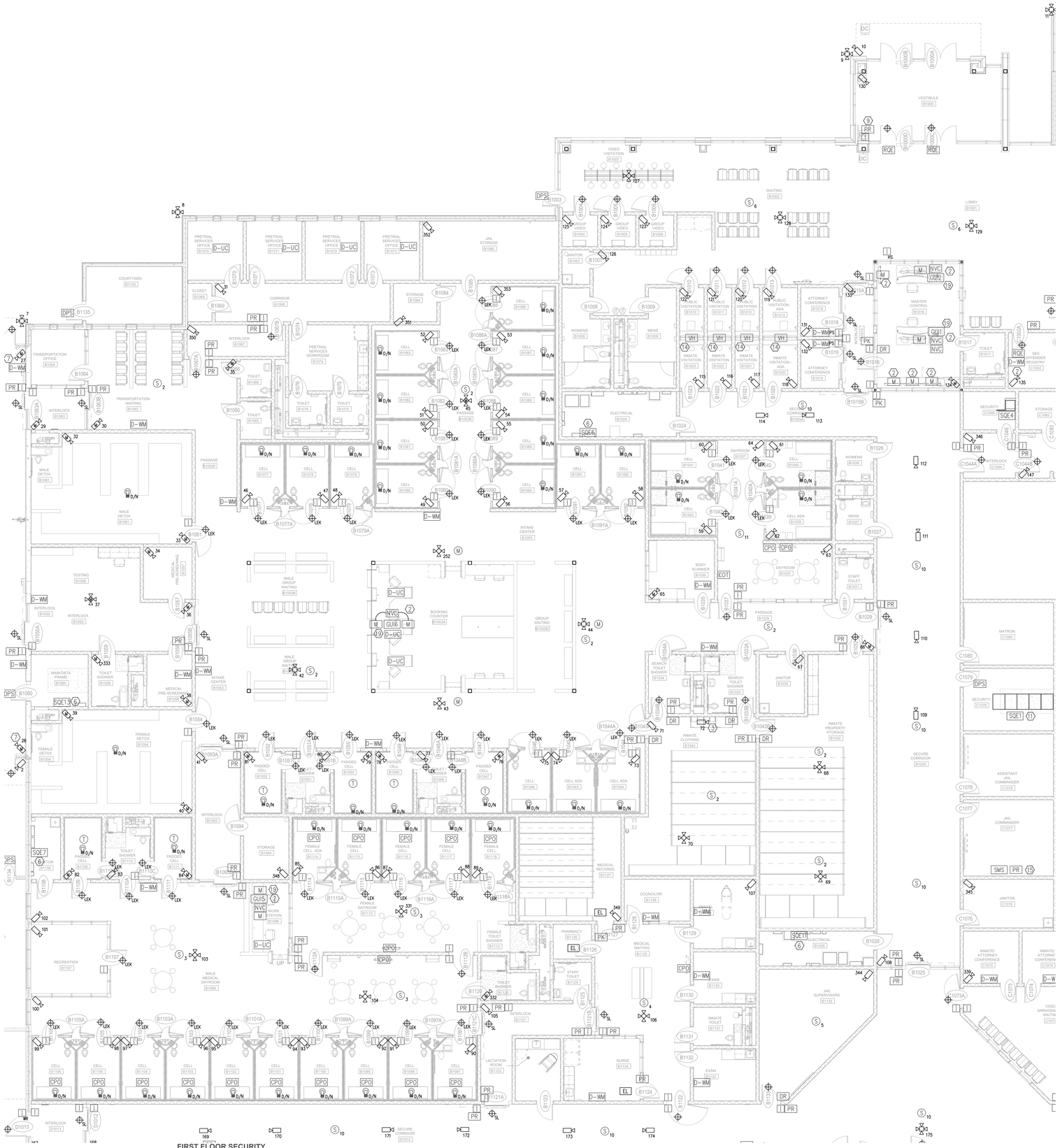
DRAWN: RMT CHK'D: CAG
DESIGNED: RMT
APPRV'D: ESR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

TERRE HAUTE INDIANA

FIRST AND MEZZANINE FLOOR SECURITY ELECTRONICS PLAN - AREA "A" ALTERNATE BID

DRAWING NUMBER
ES-101A
SECURITY ELECTRONICS



1 FIRST FLOOR SECURITY ELECTRONICS PLAN - AREA B
ES-102 SCALE: 1/8" = 1'-0"

NORTH

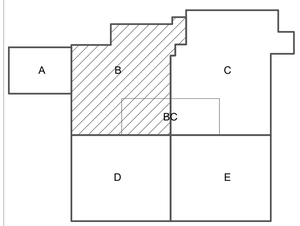
SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CD=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
RQE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
	REMOTE INTERCOM STATION W/CALL SWITCH (WALL-MOUNTED) (WR=WEATHER RESISTANT; HS=WITH INTEGRAL HANDSET, PS=PRIVACY SWITCH)
M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
	SINGLE SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE)
	MULTI-SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
	MULTI-SENSOR 180 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
COT	CONTROLLED OFFENDER TELEPHONE CIRCUIT (REFER TO ELECTRICAL DRAWINGS FOR EXACT PHYSICAL LOCATION OF OUTLET)
	CONTROLLED LIGHTING CIRCUIT (D/N=DAY/NIGHT FUNCTIONALITY, C=CELL GROUP CONTROL)

SECURITY ELECTRONICS NOTES

1. INTERCOM PEDESTAL INSTALLED BY DIV. 26 AND PROVIDED BY DIV. 28 SSI.
2. COORDINATE EXACT LOCATION OF FIELD DEVICE(S) WITH ARCHITECT AND OWNER.
3. "TRANSACTION" CAMERA FOR INMATE PROPERTY STORAGE SYSTEM. CAMERA FIELD OF VIEW SHALL BE FOCUSED ON EQUIPMENT AREA.
4. CAMERA LOCATION SHALL BE COORDINATED WITH ARCHITECT AND OWNER IN RELATION TO KITCHEN EQUIPMENT IN ORDER TO PROVIDE UNOBSTRUCTED VIEWS.
5. COILING DOOR LOCATION. PLC/TOUCHSCREEN SYSTEM SHALL PROVIDE FOR THE CONTROL AND MONITORING OF THE DEVICE.
6. REFERENCE UTILITY CONTROL PANEL SCHEDULES FOR SWITCHING AND RELAY REQUIREMENTS.
7. CAMERA SHALL BE WALL-MOUNTED AND SHALL BE LOCATED AT 12' AFF, OR JUST BELOW GARAGE DOOR (IN OPEN POSITION) AS TO NOT OBSTRUCT CAMERA VIEW.
8. CABLING FOR MICROPHONES AND CAMERAS IN THIS ROOM SHALL TERMINATE TO THE SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004. CAMERA CABLES SHALL BE INTEGRATED WITH CAMERAS.
9. HANDICAP PUSHBUTTON FOR DOOR SHALL INTEGRATE WITH PLC CONTROL SYSTEM. PUSHBUTTON SHALL BE WIRED TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1079.
10. LOCATION OF WALL-MOUNTED KEY-OPERATED ACTIVATION SWITCH AND INDICATING LED FOR INTERVIEW ROOM RECORDING SYSTEM. DEVICE SHALL TERMINATE TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004.
11. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS "A", "B" AND "C" SHALL TERMINATE TO SQE1. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
12. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS D & E SHALL TERMINATE TO SQE3. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
13. CONTROL OF POWER RECEPTACLES IN EACH DAYROOM SHALL BE BY GROUP (EACH DAYROOM WILL BE CONSIDERED A GROUP)
14. VISITATION HANDSET, HEAD-END ELECTRONICS AND CABLING SHALL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR. DIV. 26 SHALL PROVIDE ROUGH-IN FOR HANDSET.
15. READER SHALL BE CONFIGURED AS ENROLLMENT READER FOR ACCESS CONTROL SYSTEM.
16. INTERCOM AND DOOR CONDUIT, WIRE, AND DEVICE PRE-INSTALLED BY STEEL CELL OF NORTH AMERICA AND ROUTED TO SUB PANEL LOCATED AT BACK OF THE CELL.
17. PER N.E.C. CODE, BACK BOX REQUIRES 3' OF CLEARANCE IN FRONT OF BACK BOX AND CLEAR OF OBSTRUCTIONS.
18. ROUTE NETWORK (1 - WEST PENN 4246), AUDIO (1 - WEST PENN 291), AND POWER (2 - WEST PENN 224) TO SECURITY EQUIPMENT ENCLOSURE LOCATION #3 (SQE3).
19. SSI SHALL PROVIDE CONTROL OF WATER VALVES FOR CELLS FROM THE GUI STATIONS. SSI SHALL REFERENCE DIV. 22 SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
20. LOCAL CONTROL ONLY. NO ICONS SHALL BE PLACED ON GUI SYSTEM FOR CONTROL/MONITORING.

KEY PLAN



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DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RMT
DESIGNED: RMT
APPVD: ESR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR SECURITY
ELECTRONICS PLAN - AREA B

TERRE HAUTE INDIANA

DRAWING NUMBER
ES-102
SECURITY ELECTRONICS

FIRST FLOOR SECURITY ELECTRONICS PLAN - AREA C

1 ES-103 SCALE: 1/8" = 1'-0"

NORTH

SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CO=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
RQE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
	REMOTE INTERCOM STATION W/CALL SWITCH (WALL-MOUNTED) (WR=WEATHER RESISTANT; HS=WITH INTEGRAL HANDSET, PS=PRIVACY SWITCH)
M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
	SINGLE SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE)
	MULTI-SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
	MULTI-SENSOR 180 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
COT	CONTROLLED OFFENDER TELEPHONE CIRCUIT (REFER TO ELECTRICAL DRAWINGS FOR EXACT PHYSICAL LOCATION OF OUTLET)
	CONTROLLED LIGHTING CIRCUIT (D/N=DAY/NIGHT FUNCTIONALITY, C=CELL GROUP CONTROL)

SECURITY ELECTRONICS NOTES

1. INTERCOM PEDESTAL INSTALLED BY DIV. 26 AND PROVIDED BY DIV. 28 SSI.
2. COORDINATE EXACT LOCATION OF FIELD DEVICE(S) WITH ARCHITECT AND OWNER.
3. "TRANSACTION" CAMERA FOR INMATE PROPERTY STORAGE SYSTEM. CAMERA FIELD OF VIEW SHALL BE FOCUSED ON EQUIPMENT AREA.
4. CAMERA LOCATION SHALL BE COORDINATED WITH ARCHITECT AND OWNER IN RELATION TO KITCHEN EQUIPMENT IN ORDER TO PROVIDE UNOBSTRUCTED VIEWS.
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9. HANDICAP PUSHBUTTON FOR DOOR SHALL INTEGRATE WITH PLC CONTROL SYSTEM. PUSHBUTTON SHALL BE WIRED TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1079.
10. LOCATION OF WALL-MOUNTED KEY-OPERATED ACTIVATION SWITCH AND INDICATING LED FOR INTERVIEW ROOM RECORDING SYSTEM. DEVICE SHALL TERMINATE TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004.
11. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS "A", "B" AND "C" SHALL TERMINATE TO SQE1. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
12. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS D & E SHALL TERMINATE TO SQE3. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
13. CONTROL OF POWER RECEPTACLES IN EACH DAYROOM SHALL BE BY GROUP (EACH DAYROOM WILL BE CONSIDERED A GROUP)
14. VISITATION HANDSET, HEAD-END ELECTRONICS AND CABLING SHALL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR. DIV. 26 SHALL PROVIDE ROUGH-IN FOR HANDSET.
15. READER SHALL BE CONFIGURED AS ENROLLMENT READER FOR ACCESS CONTROL SYSTEM.
16. INTERCOM AND DOOR CONDUIT, WIRE, AND DEVICE PRE-INSTALLED BY STEEL CELL OF NORTH AMERICA AND ROUTED TO SUB PANEL LOCATED AT BACK OF THE CELL.
17. PER N.E.C. CODE, BACK BOX REQUIRES 3' OF CLEARANCE IN FRONT OF BACK BOX AND CLEAR OF OBSTRUCTIONS.
18. ROUTE NETWORK (1 – WEST PENN 4246), AUDIO (1 – WEST PENN 291), AND POWER (2 – WEST PENN 224) TO SECURITY EQUIPMENT ENCLOSURE LOCATION #3 (SQE3).
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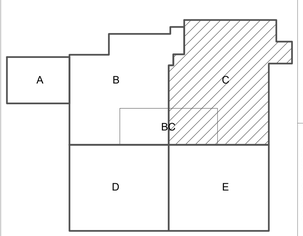
20. LOCAL CONTROL ONLY. NO ICONS SHALL BE PLACED ON GUI SYSTEM FOR CONTROL/MONITORING.

KEY PLAN



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DLZ INDIANA, LLC

NO.	REVISION	DATE

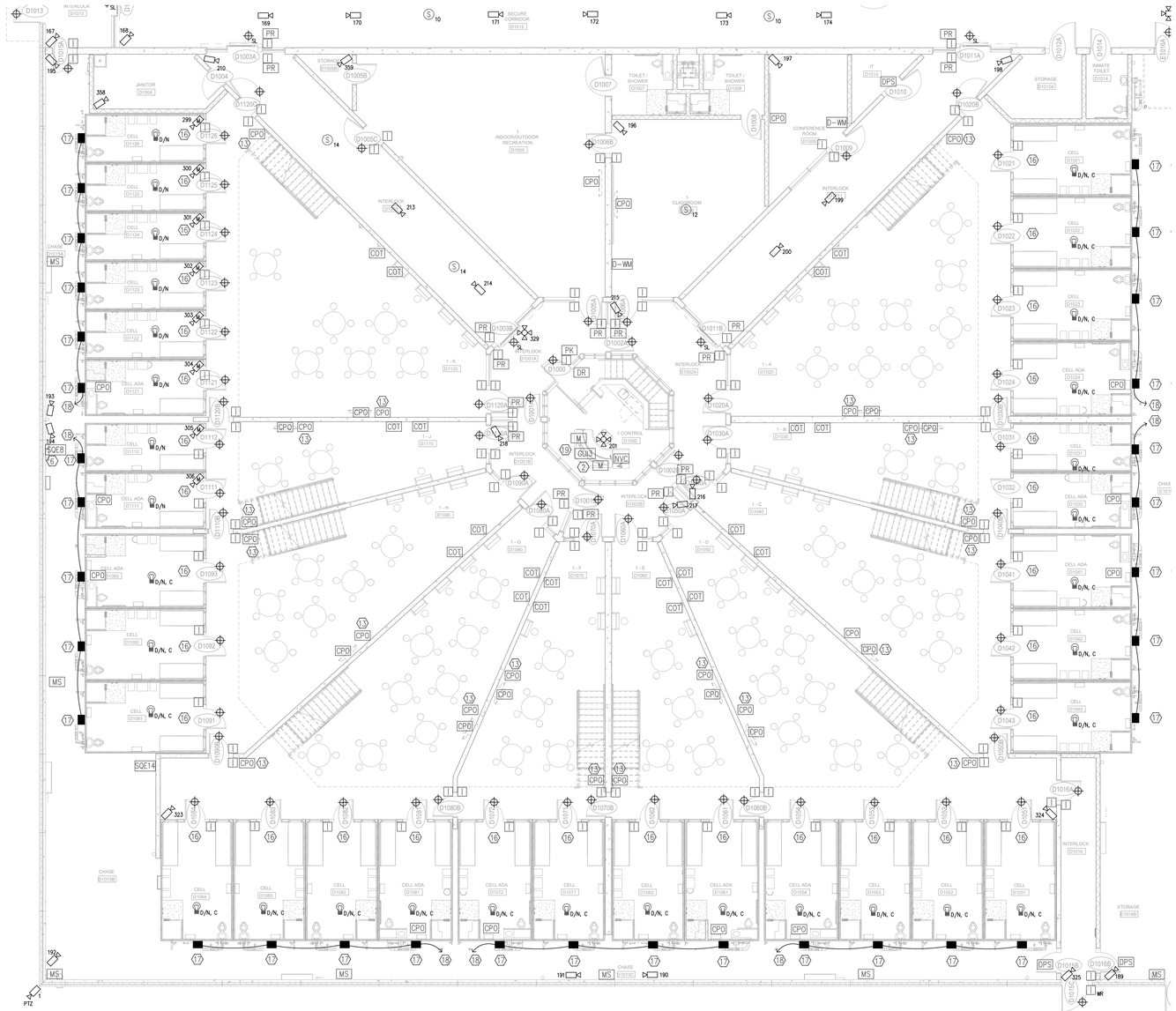
DRAWN: RMT
CHK'D: CAG
DESIGNED: RMT
APPRV'D: EBR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR SECURITY
ELECTRONICS PLAN - AREA C

DRAWING NUMBER ES-103

SECURITY ELECTRONICS



1 ES-104 FIRST FLOOR SECURITY ELECTRONICS PLAN - AREA D
SCALE: 1/8" = 1'-0"
NORTH

SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CD=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
RQE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
	REMOTE INTERCOM STATION W/CALL SWITCH (WALL-MOUNTED) (WR=WEATHER RESISTANT; HS=WITH INTEGRAL HANDSET, PS=PRIVACY SWITCH)
M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
	SINGLE SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE)
	MULTI-SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
	MULTI-SENSOR 180 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
COT	CONTROLLED OFFENDER TELEPHONE CIRCUIT (REFER TO ELECTRICAL DRAWINGS FOR EXACT PHYSICAL LOCATION OF OUTLET)
	CONTROLLED LIGHTING CIRCUIT (D/N=DAY/NIGHT FUNCTIONALITY, C=CELL GROUP CONTROL)

SECURITY ELECTRONICS NOTES

1. INTERCOM PEDESTAL INSTALLED BY DIV. 26 AND PROVIDED BY DIV. 28 SSI.
2. COORDINATE EXACT LOCATION OF FIELD DEVICE(S) WITH ARCHITECT AND OWNER.
3. "TRANSACTION" CAMERA FOR INMATE PROPERTY STORAGE SYSTEM. CAMERA FIELD OF VIEW SHALL BE FOCUSED ON EQUIPMENT AREA.
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6. REFERENCE UTILITY CONTROL PANEL SCHEDULES FOR SWITCHING AND RELAY REQUIREMENTS.
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8. CABLING FOR MICROPHONES AND CAMERAS IN THIS ROOM SHALL TERMINATE TO THE SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004. CAMERA CABLES SHALL BE INTEGRATED WITH CAMERAS.
9. HANDICAP PUSHBUTTON FOR DOOR SHALL INTEGRATE WITH PLC CONTROL SYSTEM. PUSHBUTTON SHALL BE WIRED TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1079.
10. LOCATION OF WALL-MOUNTED KEY-OPERATED ACTIVATION SWITCH AND INDICATING LED FOR INTERVIEW ROOM RECORDING SYSTEM. DEVICE SHALL TERMINATE TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004.
11. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS "A", "B" AND "C" SHALL TERMINATE TO SOE1. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
12. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS D & E SHALL TERMINATE TO SOE3. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
13. CONTROL OF POWER RECEPTACLES IN EACH DAYROOM SHALL BE BY GROUP (EACH DAYROOM WILL BE CONSIDERED A GROUP)
14. VISITATION HANDSET, HEAD-END ELECTRONICS AND CABLING SHALL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR. DIV. 26 SHALL PROVIDE ROUGH-IN FOR HANDSET.
15. READER SHALL BE CONFIGURED AS ENROLLMENT READER FOR ACCESS CONTROL SYSTEM.
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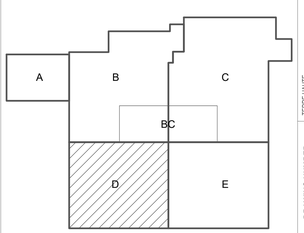
18. ROUTE NETWORK (1 – WEST PENN 4246), AUDIO (1 – WEST PENN 291), AND POWER (2 – WEST PENN 224) TO SECURITY EQUIPMENT ENCLOSURE LOCATION #3 (SOE3).
19. SSI SHALL PROVIDE CONTROL OF WATER VALVES FOR CELLS FROM THE GUI STATIONS. SSI SHALL REFERENCE DIV. 22 SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
20. LOCAL CONTROL ONLY. NO ICONS SHALL BE PLACED ON GUI SYSTEM FOR CONTROL/MONITORING.

KEY PLAN



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DLZ INDIANA, LLC

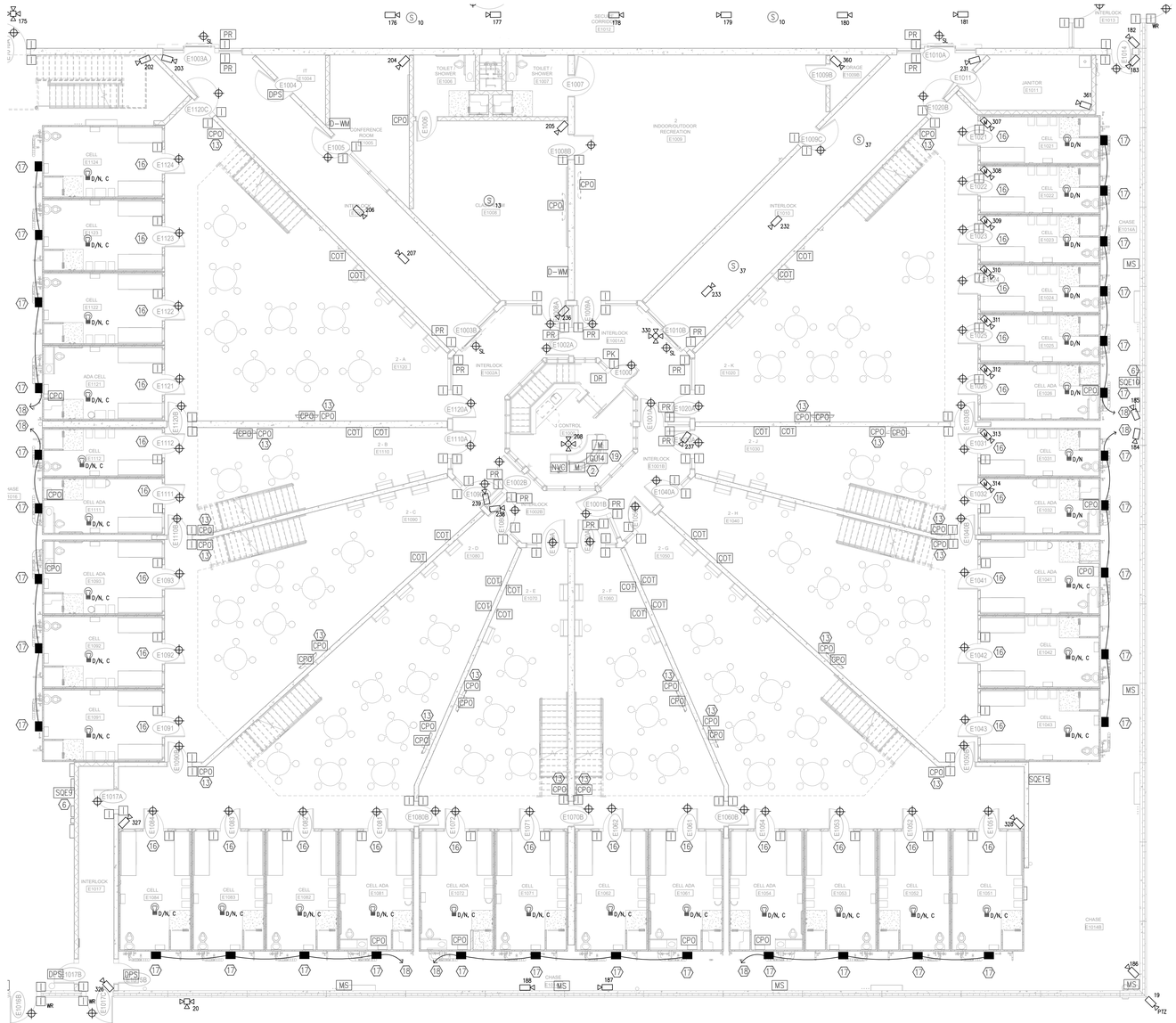
NO.	REVISION	DATE

DRAWN: RMT
CHK'D: CAG
DESIGNED: RMT
APPRV'D: EBR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
TERRE HAUTE INDIANA

FIRST FLOOR SECURITY ELECTRONICS PLAN - AREA D

DRAWING NUMBER ES-104
SECURITY ELECTRONICS



1 ES-105 FIRST FLOOR SECURITY ELECTRONICS PLAN - AREA E
SCALE: 1/8" = 1'-0"
NORTH

SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CD=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
RQE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
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M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
	SINGLE SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE)
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M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
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SECURITY ELECTRONICS NOTES

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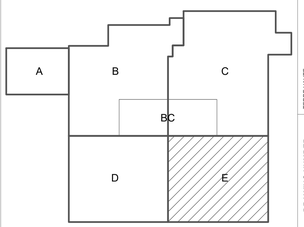

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NO.	REVISION	DATE

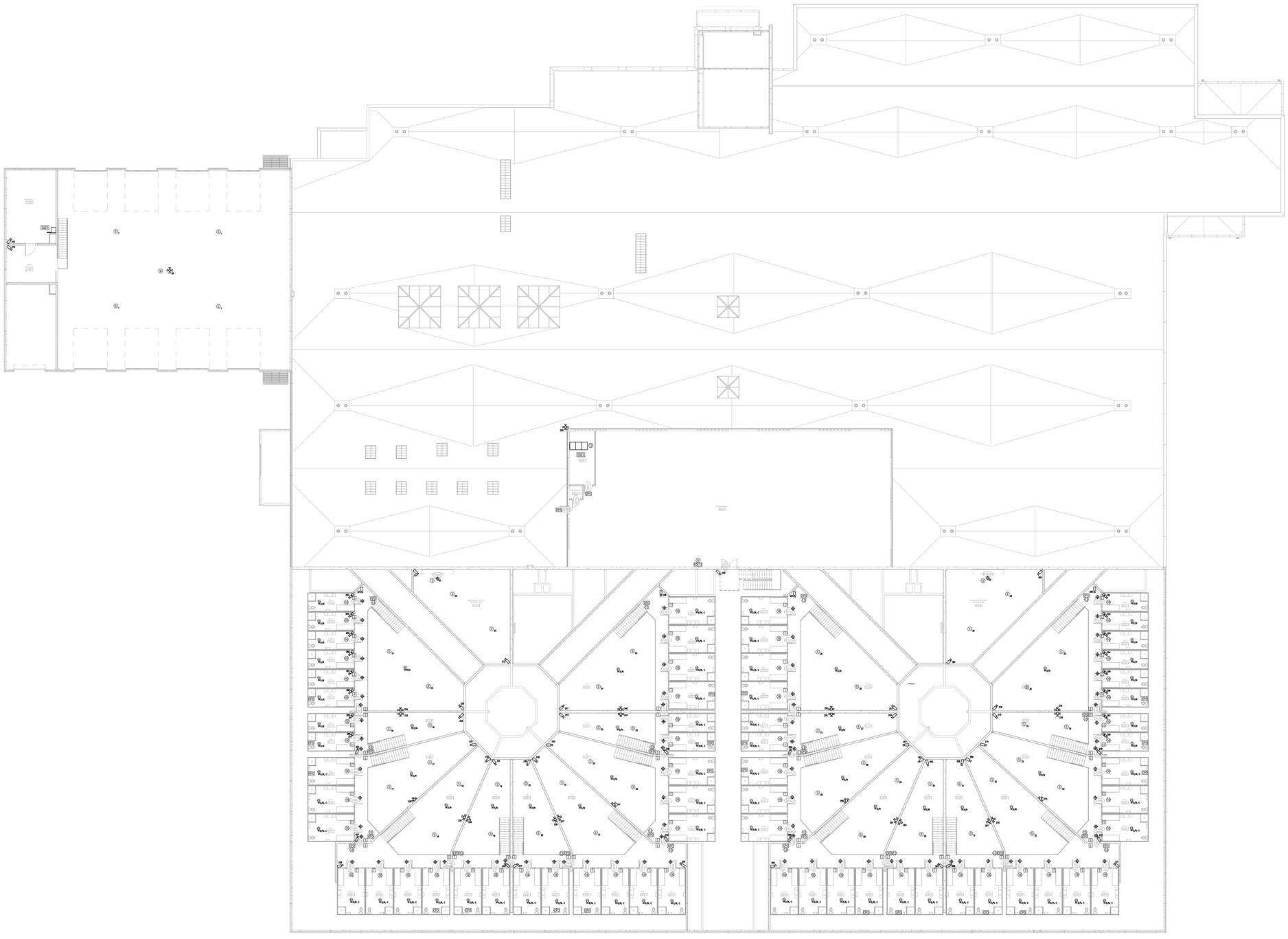
DRAWN: RMT
DESIGNED: RMT
CHK'D: CAG
APPRV'D: ESR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR SECURITY
ELECTRONICS PLAN - AREA E

DRAWING NUMBER ES-105

SECURITY ELECTRONICS



1 ES-200 **MEZZANINE SECURITY ELECTRONICS PLAN - OVERALL**
SCALE: 1/16" = 1'-0"
NORTH

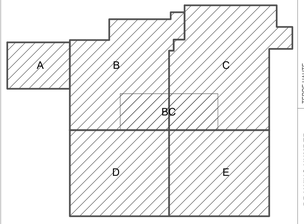
SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CD=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
RQE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
	REMOTE INTERCOM STATION W/CALL SWITCH (WALL-MOUNTED) (WR=WEATHER RESISTANT; HS=WITH INTEGRAL HANDSET, PS=PRIVACY SWITCH)
M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
	SINGLE SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE)
	MULTI-SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
	MULTI-SENSOR 180 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
COT	CONTROLLED OFFENDER TELEPHONE CIRCUIT (REFER TO ELECTRICAL DRAWINGS FOR EXACT PHYSICAL LOCATION OF OUTLET)
	CONTROLLED LIGHTING CIRCUIT (D/N=DAY/NIGHT FUNCTIONALITY, C=CELL GROUP CONTROL)

SECURITY ELECTRONICS NOTES

1. INTERCOM PEDESTAL INSTALLED BY DIV. 26 AND PROVIDED BY DIV. 28 SSI.
2. COORDINATE EXACT LOCATION OF FIELD DEVICE(S) WITH ARCHITECT AND OWNER.
3. "TRANSACTION" CAMERA FOR INMATE PROPERTY STORAGE SYSTEM. CAMERA FIELD OF VIEW SHALL BE FOCUSED ON EQUIPMENT AREA.
4. CAMERA LOCATION SHALL BE COORDINATED WITH ARCHITECT AND OWNER IN RELATION TO KITCHEN EQUIPMENT IN ORDER TO PROVIDE UNOBSTRUCTED VIEWS.
5. COILING DOOR LOCATION. PLC/TOUCHSCREEN SYSTEM SHALL PROVIDE FOR THE CONTROL AND MONITORING OF THE DEVICE.
6. REFERENCE UTILITY CONTROL PANEL SCHEDULES FOR SWITCHING AND RELAY REQUIREMENTS.
7. CAMERA SHALL BE WALL-MOUNTED AND SHALL BE LOCATED AT 12' AFF, OR JUST BELOW GARAGE DOOR (IN OPEN POSITION) AS TO NOT OBSTRUCT CAMERA VIEW.
8. CABLING FOR MICROPHONES AND CAMERAS IN THIS ROOM SHALL TERMINATE TO THE SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004. CAMERA CABLES SHALL BE INTEGRATED WITH CAMERAS.
9. HANDICAP PUSHBUTTON FOR DOOR SHALL INTEGRATE WITH PLC CONTROL SYSTEM. PUSHBUTTON SHALL BE WIRED TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1079.
10. LOCATION OF WALL-MOUNTED KEY-OPERATED ACTIVATION SWITCH AND INDICATING LED FOR INTERVIEW ROOM RECORDING SYSTEM. DEVICE SHALL TERMINATE TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004.
11. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS "A", "B" AND "C" SHALL TERMINATE TO SQE1. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
12. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS D & E SHALL TERMINATE TO SQE3. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
13. CONTROL OF POWER RECEPTACLES IN EACH DAYROOM SHALL BE BY GROUP (EACH DAYROOM WILL BE CONSIDERED A GROUP)
14. VISITATION HANDSET, HEAD-END ELECTRONICS AND CABLING SHALL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR. DIV. 26 SHALL PROVIDE ROUGH-IN FOR HANDSET.
15. READER SHALL BE CONFIGURED AS ENROLLMENT READER FOR ACCESS CONTROL SYSTEM.
16. INTERCOM AND DOOR CONDUIT, WIRE, AND DEVICE PRE-INSTALLED BY STEEL CELL OF NORTH AMERICA AND ROUTED TO SUB PANEL LOCATED AT BACK OF THE CELL.
17. PER N.E.C. CODE, BACK BOX REQUIRES 3' OF CLEARANCE IN FRONT OF BACK BOX AND CLEAR OF OBSTRUCTIONS.
18. ROUTE NETWORK (1 – WEST PENN 4246), AUDIO (1 – WEST PENN 291), AND POWER (2 – WEST PENN 224) TO SECURITY EQUIPMENT ENCLOSURE LOCATION #3 (SQE3).
19. SSI SHALL PROVIDE CONTROL OF WATER VALVES FOR CELLS FROM THE GUI STATIONS. SSI SHALL REFERENCE DIV. 22 SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
20. LOCAL CONTROL ONLY. NO ICONS SHALL BE PLACED ON GUI SYSTEM FOR CONTROL/MONITORING.

KEY PLAN



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DLZ INDIANA, LLC

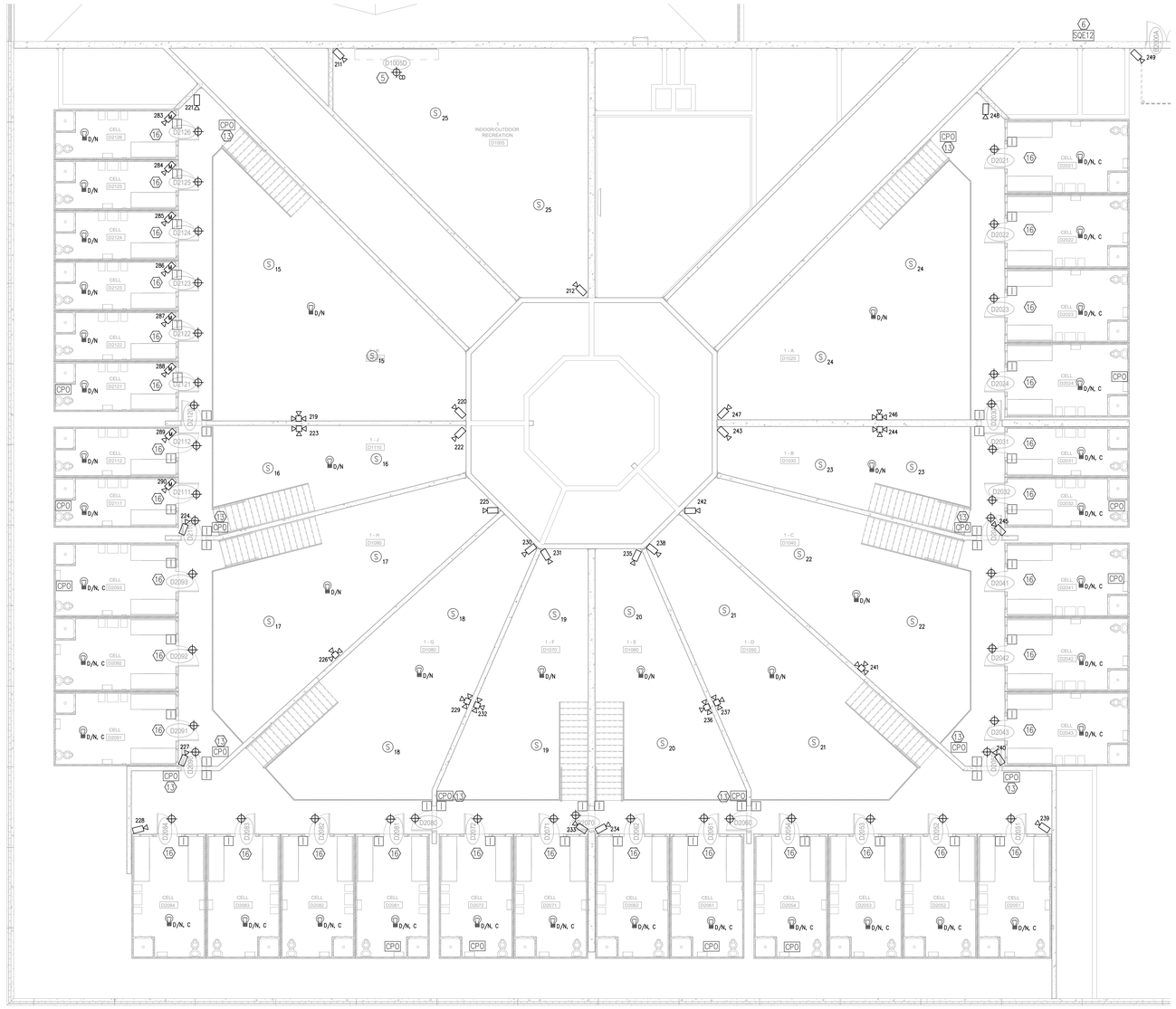
NO.	REVISION	DATE

DRAWN: RMT | CHK'D: CJG
DESIGNED: RMT
APPRV'D: EBR
DATE: SEPTEMBER 6, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE SECURITY ELECTRONICS PLAN - OVERALL

DRAWING NUMBER ES-200
SECURITY ELECTRONICS



1 ES-202 **MEZZANINE SECURITY ELECTRONICS PLAN - AREA D**
SCALE: 1/8" = 1'-0"
NORTH

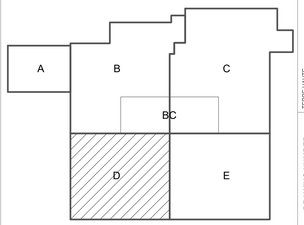
SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CD=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
RQE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
	REMOTE INTERCOM STATION W/CALL SWITCH (WALL-MOUNTED) (WR=WEATHER RESISTANT; HS=WITH INTEGRAL HANDSET, PS=PRIVACY SWITCH)
M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
	SINGLE SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE)
	MULTI-SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
	MULTI-SENSOR 180 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
COT	CONTROLLED OFFENDER TELEPHONE CIRCUIT (REFER TO ELECTRICAL DRAWINGS FOR EXACT PHYSICAL LOCATION OF OUTLET)
	CONTROLLED LIGHTING CIRCUIT (D/N=DAY/NIGHT FUNCTIONALITY, C=CELL GROUP CONTROL)

SECURITY ELECTRONICS NOTES

1. INTERCOM PEDESTAL INSTALLED BY DIV. 26 AND PROVIDED BY DIV. 28 SSI.
2. COORDINATE EXACT LOCATION OF FIELD DEVICE(S) WITH ARCHITECT AND OWNER.
3. "TRANSACTION" CAMERA FOR INMATE PROPERTY STORAGE SYSTEM. CAMERA FIELD OF VIEW SHALL BE FOCUSED ON EQUIPMENT AREA.
4. CAMERA LOCATION SHALL BE COORDINATED WITH ARCHITECT AND OWNER IN RELATION TO KITCHEN EQUIPMENT IN ORDER TO PROVIDE UNOBSTRUCTED VIEWS.
5. COILING DOOR LOCATION. PLC/TOUCHSCREEN SYSTEM SHALL PROVIDE FOR THE CONTROL AND MONITORING OF THE DEVICE.
6. REFERENCE UTILITY CONTROL PANEL SCHEDULES FOR SWITCHING AND RELAY REQUIREMENTS.
7. CAMERA SHALL BE WALL-MOUNTED AND SHALL BE LOCATED AT 12' AFF, OR JUST BELOW GARAGE DOOR (IN OPEN POSITION) AS TO NOT OBSTRUCT CAMERA VIEW.
8. CABLING FOR MICROPHONES AND CAMERAS IN THIS ROOM SHALL TERMINATE TO THE SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004. CAMERA CABLES SHALL BE INTEGRATED WITH CAMERAS.
9. HANDICAP PUSHBUTTON FOR DOOR SHALL INTEGRATE WITH PLC CONTROL SYSTEM. PUSHBUTTON SHALL BE WIRED TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1079.
10. LOCATION OF WALL-MOUNTED KEY-OPERATED ACTIVATION SWITCH AND INDICATING LED FOR INTERVIEW ROOM RECORDING SYSTEM. DEVICE SHALL TERMINATE TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004.
11. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS "A", "B" AND "C" SHALL TERMINATE TO SQE1. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
12. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS D & E SHALL TERMINATE TO SQE3. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
13. CONTROL OF POWER RECEPTACLES IN EACH DAYROOM SHALL BE BY GROUP (EACH DAYROOM WILL BE CONSIDERED A GROUP)
14. VISITATION HANDSET, HEAD-END ELECTRONICS AND CABLING SHALL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR. DIV. 26 SHALL PROVIDE ROUGH-IN FOR HANDSET.
15. READER SHALL BE CONFIGURED AS ENROLLMENT READER FOR ACCESS CONTROL SYSTEM.
16. INTERCOM AND DOOR CONDUIT, WIRE, AND DEVICE PRE-INSTALLED BY STEEL CELL OF NORTH AMERICA AND ROUTED TO SUB PANEL LOCATED AT BACK OF THE CELL.
17. PER N.E.C. CODE, BACK BOX REQUIRES 3' OF CLEARANCE IN FRONT OF BACK BOX AND CLEAR OF OBSTRUCTIONS.
18. ROUTE NETWORK (1 – WEST PENN 4246), AUDIO (1 – WEST PENN 291), AND POWER (2 – WEST PENN 224) TO SECURITY EQUIPMENT ENCLOSURE LOCATION #3 (SQE3).
19. SSI SHALL PROVIDE CONTROL OF WATER VALVES FOR CELLS FROM THE GUI STATIONS. SSI SHALL REFERENCE DIV. 22 SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
20. LOCAL CONTROL ONLY. NO ICONS SHALL BE PLACED ON GUI SYSTEM FOR CONTROL/MONITORING.

KEY PLAN



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DLZ INDIANA, LLC

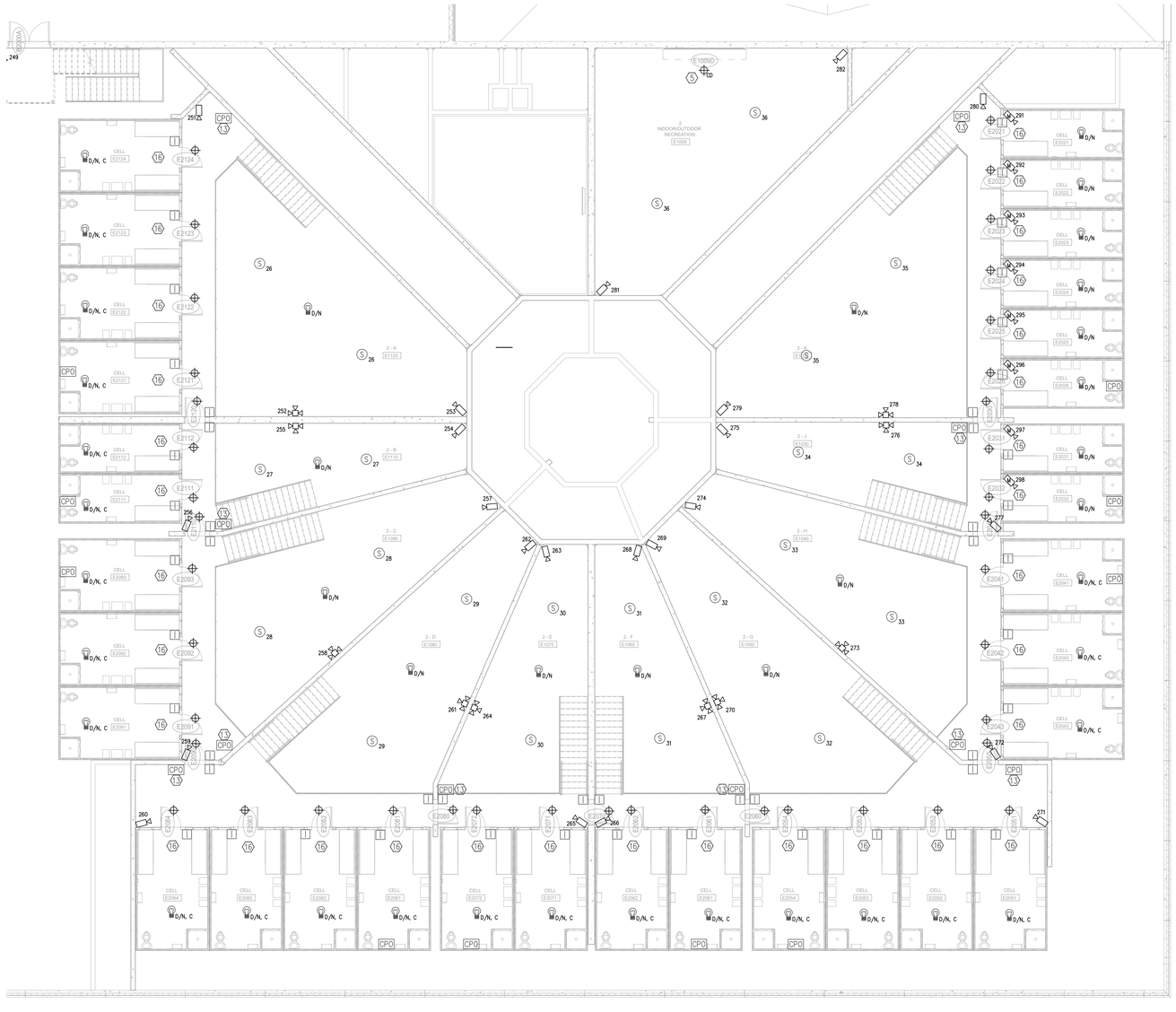
NO.	REVISION	DATE

DRAWN: RMT CHKD: CAG
DESIGNED: RMT
APPRVD: EBR
DATE: SEPTEMBER 2, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE SECURITY ELECTRONICS PLAN - AREA D

DRAWING NUMBER ES-201
SECURITY ELECTRONICS



MEZZANINE SECURITY ELECTRONICS PLAN - AREA E
SCALE: 1/8" = 1'-0"
NORTH

SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CD=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
RQE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
	REMOTE INTERCOM STATION W/CALL SWITCH (WALL-MOUNTED) (WR=WEATHER RESISTANT; HS=WITH INTEGRAL HANDSET, PS=PRIVACY SWITCH)
M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
	SINGLE SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE)
	MULTI-SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
	MULTI-SENSOR 180 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
COT	CONTROLLED OFFENDER TELEPHONE CIRCUIT (REFER TO ELECTRICAL DRAWINGS FOR EXACT PHYSICAL LOCATION OF OUTLET)
	CONTROLLED LIGHTING CIRCUIT (D/N=DAY/NIGHT FUNCTIONALITY, C=CELL GROUP CONTROL)

SECURITY ELECTRONICS NOTES

1. INTERCOM PEDESTAL INSTALLED BY DIV. 26 AND PROVIDED BY DIV. 28 SSI.
2. COORDINATE EXACT LOCATION OF FIELD DEVICE(S) WITH ARCHITECT AND OWNER.
3. "TRANSACTION" CAMERA FOR INMATE PROPERTY STORAGE SYSTEM. CAMERA FIELD OF VIEW SHALL BE FOCUSED ON EQUIPMENT AREA.
4. CAMERA LOCATION SHALL BE COORDINATED WITH ARCHITECT AND OWNER IN RELATION TO KITCHEN EQUIPMENT IN ORDER TO PROVIDE UNOBSTRUCTED VIEWS.
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8. CABLING FOR MICROPHONES AND CAMERAS IN THIS ROOM SHALL TERMINATE TO THE SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004. CAMERA CABLES SHALL BE INTEGRATED WITH CAMERAS.
9. HANDICAP PUSHBUTTON FOR DOOR SHALL INTEGRATE WITH PLC CONTROL SYSTEM. PUSHBUTTON SHALL BE WIRED TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1079.
10. LOCATION OF WALL-MOUNTED KEY-OPERATED ACTIVATION SWITCH AND INDICATING LED FOR INTERVIEW ROOM RECORDING SYSTEM. DEVICE SHALL TERMINATE TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004.
11. IN GENERAL, SECURITY ELECTRONICS DEVICES IN AREAS "A", "B" AND "C" SHALL TERMINATE TO SQE1. DIV. 26 SHALL REFERENCE SSI-SUPPLIED SUBMITTAL DOCUMENTATION FOR EXACT TERMINATION LOCATION(S).
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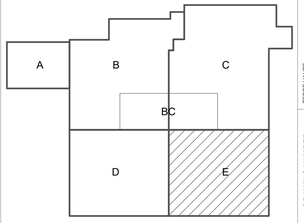
13. CONTROL OF POWER RECEPTACLES IN EACH DAYROOM SHALL BE BY GROUP (EACH DAYROOM WILL BE CONSIDERED A GROUP)
14. VISITATION HANDSET, HEAD-END ELECTRONICS AND CABLING SHALL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR. DIV. 26 SHALL PROVIDE ROUGH-IN FOR HANDSET.
15. READER SHALL BE CONFIGURED AS ENROLLMENT READER FOR ACCESS CONTROL SYSTEM.
16. INTERCOM AND DOOR CONDUIT, WIRE, AND DEVICE PRE-INSTALLED BY STEEL CELL OF NORTH AMERICA AND ROUTED TO SUB PANEL LOCATED AT BACK OF THE CELL.
17. PER N.E.C. CODE, BACK BOX REQUIRES 3' OF CLEARANCE IN FRONT OF BACK BOX AND CLEAR OF OBSTRUCTIONS.
18. ROUTE NETWORK (1 – WEST PENN 4246), AUDIO (1 – WEST PENN 291), AND POWER (2 – WEST PENN 224) TO SECURITY EQUIPMENT ENCLOSURE LOCATION #3 (SQE3).
19. SSI SHALL PROVIDE CONTROL OF WATER VALVES FOR CELLS FROM THE GUI STATIONS. SSI SHALL REFERENCE DIV. 22 SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
20. LOCAL CONTROL ONLY. NO ICONS SHALL BE PLACED ON GUI SYSTEM FOR CONTROL/MONITORING.

KEY PLAN



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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

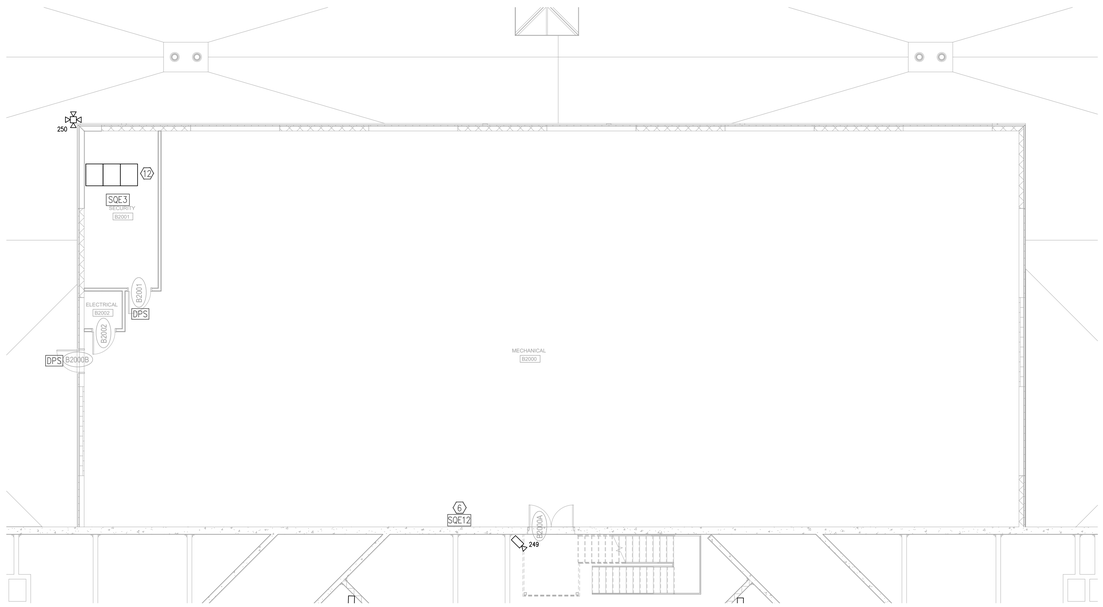
NO.	REVISION	DATE

DRAWN: RMT
DESIGNED: RMT
APPVD: EBR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE SECURITY ELECTRONICS
PLAN - AREA E

DRAWING NUMBER ES-202
SECURITY ELECTRONICS



NORTH

1 ES-203

MECHANICAL MEZZANINE
SECURITY ELECTRONICS PLAN
SCALE: 1/8" = 1'-0"

SECURITY ELECTRONICS LEGEND

GUI#	GRAPHICAL USER INTERFACE STATION (# INDICATES LOCATION)
TM	VoIP TELEPHONE MASTER STATION
SMS	SECURITY MANAGEMENT SERVER
SOE#	SECURITY EQUIPMENT ENCLOSURE (# INDICATES LOCATION)
	MONITORED AND CONTROLLED DOOR (OH=OVERHEAD DOOR, SL=SLIDING DOOR, CD=COILING DOOR, LEK=LOCAL ELECTRIC KEYSWITCH, GA=GATE ARM)
EL	MONITORED AND CONTROLLED DOOR (VIA ACCESS SYSTEM ONLY)
DPS	DOOR POSITION SWITCH
PR	PROXIMITY READER
PK	PROXIMITY READER W/INTEGRAL KEYPAD
RQE	REQUEST TO EXIT MOTION DETECTOR
DR	DOOR RELEASE PUSHBUTTON (UC=MOUNTED UNDER-COUNTER)
D-UC	DURESS PUSHBUTTON, MOUNTED UNDER-COUNTER
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED
MS	MOTION SENSOR
VH	VISITATION HANDSET (BY OWNER)
	REMOTE INTERCOM STATION W/CALL SWITCH (WALL-MOUNTED) (WR=WEATHER RESISTANT; HS=WITH INTEGRAL HANDSET, PS=PRIVACY SWITCH)
M	CEILING-MOUNTED MICROPHONE
S	CEILING-MOUNTED PAGING SPEAKER (# INDICATES ZONE)
T	CEILING SPEAKER W/AUDIO THRESHOLD DETECTION
#	IP CAMERA (# INDICATES CAMERA NUMBER, M=INTEGRATED MICROPHONE, PTZ=PAN-TILT-ZOOM)
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	MULTI-SENSOR 360 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
	MULTI-SENSOR 180 DEGREE CAMERA (# INDICATES CAMERA NUMBER)
M	NETWORK VIDEO CLIENT MONITOR
NVC	NETWORK VIDEO CLIENT COMPUTER
CPO	CONTROLLED POWER OUTLET (REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLES CONTROLLED)
COT	CONTROLLED OFFENDER TELEPHONE CIRCUIT (REFER TO ELECTRICAL DRAWINGS FOR EXACT PHYSICAL LOCATION OF OUTLET)
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SECURITY ELECTRONICS NOTES

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2. COORDINATE EXACT LOCATION OF FIELD DEVICE(S) WITH ARCHITECT AND OWNER.
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4. CAMERA LOCATION SHALL BE COORDINATED WITH ARCHITECT AND OWNER IN RELATION TO KITCHEN EQUIPMENT IN ORDER TO PROVIDE UNOBSTRUCTED VIEWS.
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7. CAMERA SHALL BE WALL-MOUNTED AND SHALL BE LOCATED AT 12' AFF, OR JUST BELOW GARAGE DOOR (IN OPEN POSITION) AS TO NOT OBSTRUCT CAMERA VIEW.
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10. LOCATION OF WALL-MOUNTED KEY-OPERATED ACTIVATION SWITCH AND INDICATING LED FOR INTERVIEW ROOM RECORDING SYSTEM. DEVICE SHALL TERMINATE TO SECURITY EQUIPMENT ENCLOSURE IN ROOM C1004.
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14. VISITATION HANDSET, HEAD-END ELECTRONICS AND CABLING SHALL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR. DIV. 26 SHALL PROVIDE ROUGH-IN FOR HANDSET.
15. READER SHALL BE CONFIGURED AS ENROLLMENT READER FOR ACCESS CONTROL SYSTEM.
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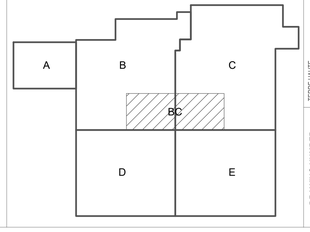
17. PER N.E.C. CODE, BACK BOX REQUIRES 3' OF CLEARANCE IN FRONT OF BACK BOX AND CLEAR OF OBSTRUCTIONS.
18. ROUTE NETWORK (1 – WEST PENN 4246), AUDIO (1 – WEST PENN 291), AND POWER (2 – WEST PENN 224) TO SECURITY EQUIPMENT ENCLOSURE LOCATION #3 (SQE3).
19. SSI SHALL PROVIDE CONTROL OF WATER VALVES FOR CELLS FROM THE GUI STATIONS. SSI SHALL REFERENCE DIV. 22 SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
20. LOCAL CONTROL ONLY. NO ICONS SHALL BE PLACED ON GUI SYSTEM FOR CONTROL/MONITORING.

KEY PLAN



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NO.	REVISION	DATE

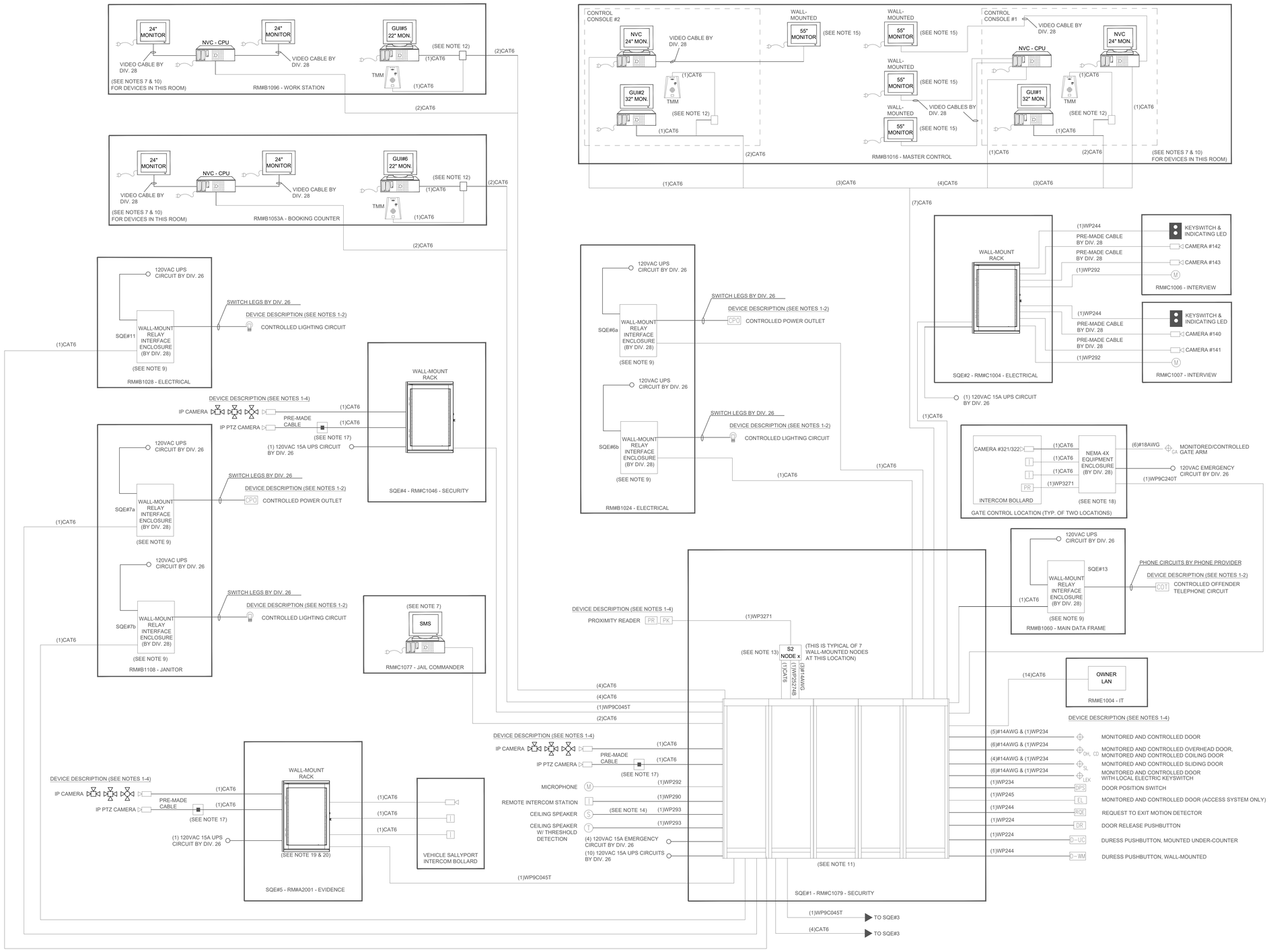
DRAWN: RMT
CHK'D: CAG
DESIGNED: RMT
APPRV'D: EBR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

TERRE HAUTE INDIANA
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MECHANICAL MEZZANINE SECURITY ELECTRONICS PLAN

DRAWING NUMBER ES-203

SECURITY ELECTRONICS



1 ES-300 **SECURITY ELECTRONICS RISER - PART 1**
SCALE: N/A

NOTES:

1. EACH FIELD DEVICE REQUIRES SPECIFIED WIRE QUANTITY.
2. FIELD DEVICE WIRING SHOWN FOR EACH DEVICE TO BE HOME RUN. WIRING FOR LIKE DEVICES MAY BE RUN IN THE SAME CONDUIT AND/OR CABLE TRAY.
3. WP - WEST PENN, MAY SUBSTITUTE
4. WIRE TYPES ARE TYPICAL, DIV. 26 TO MEET ALL ELECTRICAL CODES AND SPECIFICATION MINIMUMS INCLUDING THE USE OF PLENUM AND WET RATED CABLE WHERE APPLICABLE.
5. INDICATES UPS POWER REQUIRED POWER WIRING AND RECEPTACLES BY DIV. 26
6. DIV. 26 CONTRACTOR TO REFERENCE DIV. 26 SPECIFICATIONS FOR ALL CONDUIT/RACEWAY AND CABLE REQUIREMENTS.
7. DIV. 26 AND DIV. 28 TO COORDINATE EXACT LOCATION OF DEVICES WITH OWNER.
8. DIV. 26 SHALL REFER TO APPROVED DIV. 28 SHOP DRAWINGS FOR ACTUAL CABLE REQUIREMENTS, NUMBER OF EQUIPMENT ENCLOSURES, AND SYSTEM LAYOUT. DIV. 26 SHALL COORDINATE WITH DIV. 28 FOR SYSTEM REQUIREMENTS.
9. REFERENCE DIV. 26 DRAWINGS FOR PANELBOARD SCHEDULES. REFERENCE DIV. 28 DRAWINGS AND SPECIFICATIONS FOR RELAY CONTROL SCHEDULES.
10. DIV. 28 AND DIV. 26 SHALL COORDINATE CABLE OPENINGS WITH MILLWORK/CASEWORK PROVIDER.
11. VERIFY ACTUAL NUMBER OF ENCLOSURES WITH APPROVED SUBMITTAL DRAWINGS.
12. DIV. 26 TO RUN CABLING TO A 2 GANG, 3 1/2" DEEP BOX LOCATED WITHIN 4 FEET OF GUI STATION.
13. NETWORK NODE ENCLOSURES SHALL BE WALL MOUNTED IN EQUIPMENT ROOM.
14. SPEAKERS IN THE SAME ZONE CAN BE DAISY-CHAINED. DIV. 26 SHALL REFERENCE APPROVED SUBMITTAL DRAWINGS FOR FINAL ZONE ASSIGNMENTS.
15. WALL MOUNT MONITORS IN CONTROL ROOMS TO BE CONNECTED TO NETWORK VIDEO CLIENT PCS VIA DIV. 28-PROVIDED DVI CABLE AND INSTALLED BY DIV. 26.
16. CAT6 CABLE RUNS CANNOT EXCEED 300 FEET.
17. JUNCTION BOX LOCATED INSIDE ON WALL AT CABLE PENETRATION.
18. SITE-LOCATED EQUIPMENT ENCLOSURE FOR GATE ARM INTERFACE/CONTROL EQUIPMENT. REFERENCE SITE PLANS FOR EQUIPMENT LOCATIONS.
19. DIV. 28 SHALL PROVIDE AND INSTALL LOCAL UPS TO SUPPORT INSTALLED EQUIPMENT AT THIS LOCATION.
20. DIV. 26 SHALL REFERENCE CAMERA SCHEDULE IN DIV. 28 SPECIFICATIONS FOR TERMINATION LOCATIONS.

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NO.	REVISION	DATE

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DESIGNED: RMT
APPRVD: ESR
DATE: SEPTEMBER 5, 2019
CHK'D: CAG
PROJECT NUMBER 1663-1190-90

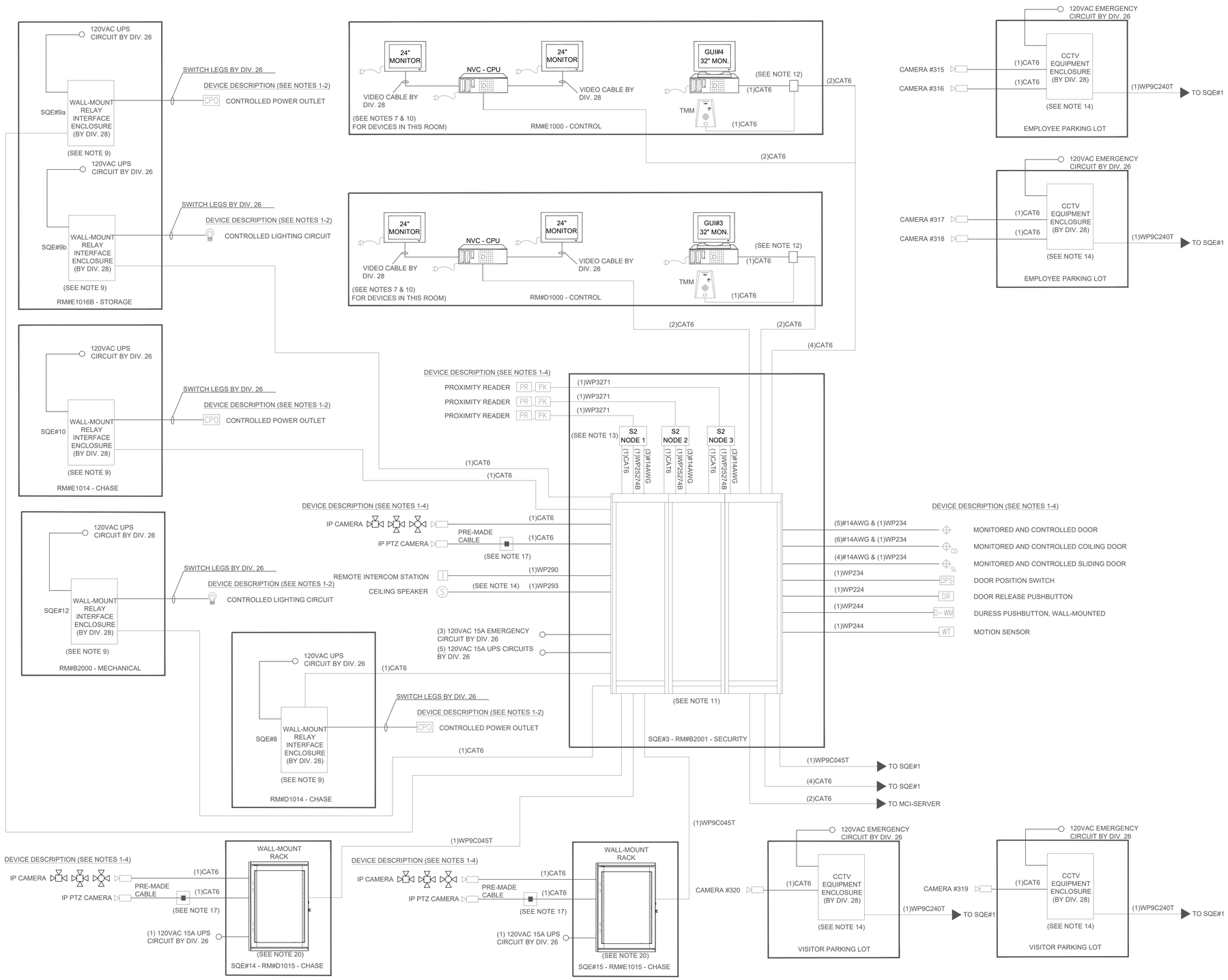
TERRE HAUTE INDIANA

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

SECURITY ELECTRONICS RISER - PART 1 (OF 3)

DRAWING NUMBER ES-300

SECURITY ELECTRONICS



SECURITY ELECTRONICS RISER - PART 2
1 / ES-301
SCALE: N/A

NOTES:

1. EACH FIELD DEVICE REQUIRES SPECIFIED WIRE QUANTITY.
2. FIELD DEVICE WIRING SHOWN FOR EACH DEVICE TO BE HOME RUN. WIRING FOR LIKE DEVICES MAY BE RUN IN THE SAME CONDUIT AND/OR CABLE TRAY.
3. WP - WEST PENN, MAY SUBSTITUTE
4. WIRE TYPES ARE TYPICAL, DIV. 26 TO MEET ALL ELECTRICAL CODES AND SPECIFICATION MINIMUMS INCLUDING THE USE OF PLENUM AND WET RATED CABLE WHERE APPLICABLE.
5. INDICATES UPS POWER REQUIRED POWER WIRING AND RECEPTACLES BY DIV. 26
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7. DIV. 26 AND DIV. 28 TO COORDINATE EXACT LOCATION OF DEVICES WITH OWNER.
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9. REFERENCE DIV. 26 DRAWINGS FOR PANELBOARD SCHEDULES. REFERENCE DIV. 28 DRAWINGS AND SPECIFICATIONS FOR RELAY CONTROL SCHEDULES.
10. DIV. 28 AND DIV. 26 SHALL COORDINATE CABLE OPENINGS WITH MILLWORK/CASEWORK PROVIDER.
11. VERIFY ACTUAL NUMBER OF ENCLOSURES WITH APPROVED SUBMITTAL DRAWINGS.
12. DIV. 26 TO RUN CABLING TO A 2 GANG, 3 1/2" DEEP BOX LOCATED WITHIN 4 FEET OF GUI STATION.
13. NETWORK NODE ENCLOSURES SHALL BE WALL MOUNTED IN EQUIPMENT ROOM.
14. SPEAKERS IN THE SAME ZONE CAN BE DAISY-CHAINED. DIV. 26 SHALL REFERENCE APPROVED SUBMITTAL DRAWINGS FOR FINAL ZONE ASSIGNMENTS.
15. WALL MOUNT MONITORS IN CONTROL ROOMS TO BE CONNECTED TO NETWORK VIDEO CLIENT PCS VIA DIV. 28-PROVIDED DVI CABLE AND INSTALLED BY DIV. 26.
16. CAT6 CABLE RUNS CANNOT EXCEED 300 FEET.
17. JUNCTION BOX LOCATED INSIDE ON WALL AT CABLE PENETRATION.
18. SITE-LOCATED EQUIPMENT ENCLOSURE FOR GATE ARM INTERFACE/CONTROL EQUIPMENT. REFERENCE SITE PLANS FOR EQUIPMENT LOCATIONS.
19. DIV. 28 SHALL PROVIDE AND INSTALL LOCAL UPS TO SUPPORT INSTALLED EQUIPMENT AT THIS LOCATION.
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NO.	REVISION	DATE

DRAWN: RMT
DESIGNED: RMT
APPRV'D: EMR
DATE: SEPTEMBER 3, 2019
PROJECT NUMBER 1663-1190-90
CHK'D: CAG

TERRE HAUTE INDIANA

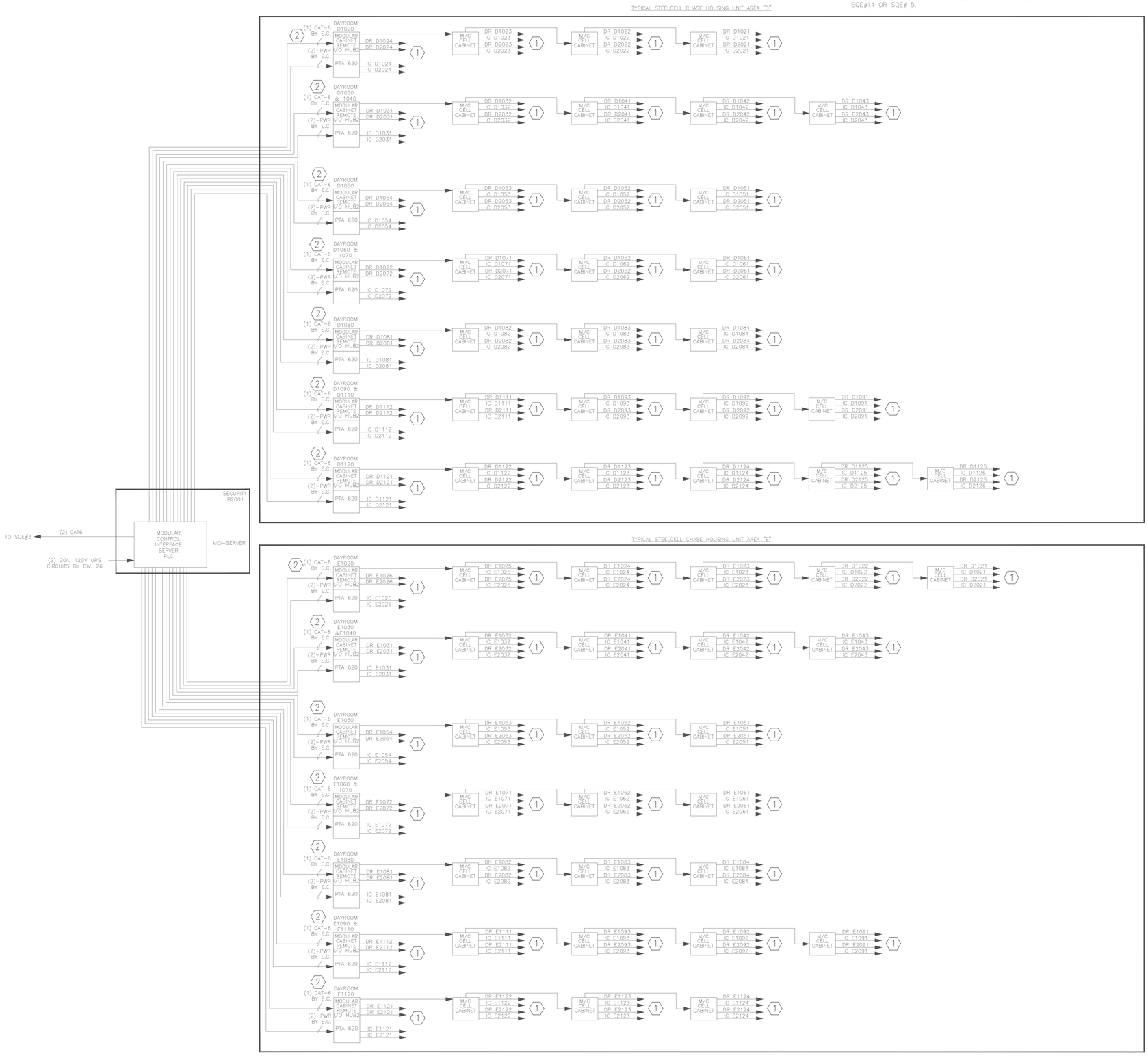
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

SECURITY ELECTRONICS RISER - PART 2 (OF 3)

DRAWING NUMBER ES-301
SECURITY ELECTRONICS

1 INTERCOM AND DOOR CONDUIT, WIRE, AND DEVICE PRE-INSTALLED BY STEEL CELL OF NORTH AMERICA AND ROUTED TO SUB PANEL LOCATED AT THE BACK OF THE CELL.

2 IF CAT6 CABLE DISTANCE BETWEEN HUB CABINET AND SQE3 EXCEEDS 300 FEET, DIV. 26 SHALL ROUTE CAT6 CABLE TO EITHER SQE#14 OR SQE#15.



1 ES-302 SECURITY ELECTRONICS RISER - PART 3
SCALE: N/A

NOTES:

1. EACH FIELD DEVICE REQUIRES SPECIFIED WIRE QUANTITY.
2. FIELD DEVICE WIRING SHOWN FOR EACH DEVICE TO BE HOME RUN. WIRING FOR LIKE DEVICES MAY BE RUN IN THE SAME CONDUIT AND/OR CABLE TRAY.
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4. WIRE TYPES ARE TYPICAL, DIV. 26 TO MEET ALL ELECTRICAL CODES AND SPECIFICATION MINIMUMS INCLUDING THE USE OF PLENUM AND WET RATED CABLE WHERE APPLICABLE.
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DRAWN: RMT CHK'D: CAG
DESIGNED: RMT
APPR'D: EMR
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PROJECT NUMBER 1663-1190-90

TERRE HAUTE INDIANA
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

SECURITY ELECTRONICS RISER - PART 3 (OF 3)

DRAWING NUMBER ES-302
SECURITY ELECTRONICS

UTILITY RELAY CONTROL PANEL - SQE#6A						
RELAY #	TYPE	DEVICE	HEAD-END LOCATION	CONTROLLED DEVICE LOCATION	VOLTAGE	Notes:
1	SPDT	TV RECEPTACLE	ELECTRICAL B1024	B1038	120VAC	
2	SPDT	RECEPTACLE	ELECTRICAL B1024	B1038	120VAC	

1 ES-303 **SQE#6A SCHEDULE**
SCALE: N/A

UTILITY RELAY CONTROL PANEL - SQE#6B						
RELAY #	TYPE	DEVICE	HEAD-END LOCATION	CONTROLLED DEVICE LOCATION	VOLTAGE	Notes:
1	SPDT	LIGHT	ELECTRICAL B1024	MALE DETOX B1061	277VAC	
2	SPDT	LIGHT	ELECTRICAL B1024	FEMALE DETOX B1054	277VAC	
3	SPDT	LIGHT	ELECTRICAL B1024	PADDED CELL B1052	277VAC	
4	SPDT	LIGHT	ELECTRICAL B1024	PADDED CELL B1050	277VAC	
5	SPDT	LIGHT	ELECTRICAL B1024	PADDED CELL B1049	277VAC	
6	SPDT	LIGHT	ELECTRICAL B1024	PADDED CELL B1047	277VAC	
7	SPDT	LIGHT	ELECTRICAL B1024	CELL B1046	277VAC	
8	SPDT	LIGHT	ELECTRICAL B1024	CELL ADA B1045	277VAC	
9	SPDT	LIGHT	ELECTRICAL B1024	CELL ADA B1044	277VAC	
10	SPDT	LIGHT	ELECTRICAL B1024	CELL ADA B1039	277VAC	
11	SPDT	LIGHT	ELECTRICAL B1024	CELL B1040	277VAC	
12	SPDT	LIGHT	ELECTRICAL B1024	CELL B1041	277VAC	
13	SPDT	LIGHT	ELECTRICAL B1024	CELL B1042	277VAC	
14	SPDT	LIGHT	ELECTRICAL B1024	CELL B1092	277VAC	
15	SPDT	LIGHT	ELECTRICAL B1024	CELL B1091	277VAC	
16	SPDT	LIGHT	ELECTRICAL B1024	CELL B1090	277VAC	
17	SPDT	LIGHT	ELECTRICAL B1024	CELL B1089	277VAC	
18	SPDT	LIGHT	ELECTRICAL B1024	CELL B1088	277VAC	
19	SPDT	LIGHT	ELECTRICAL B1024	CELL B1087	277VAC	
20	SPDT	LIGHT	ELECTRICAL B1024	CELL B1086	277VAC	
21	SPDT	LIGHT	ELECTRICAL B1024	CELL B1083	277VAC	
22	SPDT	LIGHT	ELECTRICAL B1024	CELL B1082	277VAC	
23	SPDT	LIGHT	ELECTRICAL B1024	CELL B1081	277VAC	
24	SPDT	LIGHT	ELECTRICAL B1024	CELL B1080	277VAC	
25	SPDT	LIGHT	ELECTRICAL B1024	CELL B1079	277VAC	
26	SPDT	LIGHT	ELECTRICAL B1024	CELL B1078	277VAC	
27	SPDT	LIGHT	ELECTRICAL B1024	CELL B1077	277VAC	
28	SPDT	LIGHT	ELECTRICAL B1024	SPARE	277VAC	
29	SPDT	LIGHT	ELECTRICAL B1024	SPARE	277VAC	
30	SPDT	LIGHT	ELECTRICAL B1024	SPARE	277VAC	
31	SPDT	LIGHT	ELECTRICAL B1024	SPARE	277VAC	
32	SPDT	LIGHT	ELECTRICAL B1024	SPARE	277VAC	

2 ES-303 **SQE#6B SCHEDULE**
SCALE: N/A

UTILITY RELAY CONTROL PANEL - SQE#7						
RELAY #	TYPE	DEVICE	HEAD-END LOCATION	CONTROLLED DEVICE LOCATION	VOLTAGE	Notes:
1	SPDT	RECEPTACLE	JANITOR B1108	MEDICAL DAYROOM B1095	120VAC	
2	SPDT	RECEPTACLE	JANITOR B1108	CELL B1097	120VAC	
3	SPDT	RECEPTACLE	JANITOR B1108	CELL B1098	120VAC	
4	SPDT	RECEPTACLE	JANITOR B1108	CELL B1099	120VAC	
5	SPDT	RECEPTACLE	JANITOR B1108	CELL B1100	120VAC	
6	SPDT	RECEPTACLE	JANITOR B1108	CELL B1101	120VAC	
7	SPDT	RECEPTACLE	JANITOR B1108	CELL B1102	120VAC	
8	SPDT	RECEPTACLE	JANITOR B1108	CELL B1103	120VAC	
9	SPDT	RECEPTACLE	JANITOR B1108	CELL B1104	120VAC	
10	SPDT	RECEPTACLE	JANITOR B1108	CELL B1105	120VAC	
11	SPDT	RECEPTACLE	JANITOR B1108	CELL B1106	120VAC	
12	SPDT	RECEPTACLE	JANITOR B1108	FEMALE DAYROOM B1112	120VAC	
13	SPDT	RECEPTACLE	JANITOR B1108	FEMALE ADA CELL B1114	120VAC	
14	SPDT	RECEPTACLE	JANITOR B1108	FEMALE CELL B1115	120VAC	
15	SPDT	RECEPTACLE	JANITOR B1108	FEMALE CELL B1116	120VAC	
16	SPDT	RECEPTACLE	JANITOR B1108	FEMALE CELL B1117	120VAC	
17	SPDT	RECEPTACLE	JANITOR B1108	FEMALE CELL B1118	120VAC	
18	SPDT	RECEPTACLE	JANITOR B1108	MEDICAL WAITING B1122	120VAC	
19	SPDT	RECEPTACLE	JANITOR B1108	SPARE	120VAC	
20	SPDT	RECEPTACLE	JANITOR B1108	SPARE	120VAC	

3 ES-303 **SQE#7 SCHEDULE**
SCALE: N/A

UTILITY RELAY CONTROL PANEL - SQE#8						
RELAY #	TYPE	DEVICE	HEAD-END LOCATION	CONTROLLED DEVICE LOCATION	VOLTAGE	Notes:
1	SPDT	RECEPTACLE	CHASE D1014	INDOOR/OUTDOOR REC. D1005	120VAC	
2	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1120 TV	120VAC	
3	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1120	120VAC	GROUP
4	SPDT	RECEPTACLE	CHASE D1014	CELL ADA D1121	120VAC	
5	SPDT	RECEPTACLE	CHASE D1014	CELL D2121	120VAC	
6	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1110 TV	120VAC	
7	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1110	120VAC	GROUP
8	SPDT	RECEPTACLE	CHASE D1014	CELL ADA D1111	120VAC	
9	SPDT	RECEPTACLE	CHASE D1014	CELL D2111	120VAC	
10	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1090 TV	120VAC	
11	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1090	120VAC	GROUP
12	SPDT	RECEPTACLE	CHASE D1014	CELL ADA D1093	120VAC	
13	SPDT	RECEPTACLE	CHASE D1014	CELL D2093	120VAC	
14	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1080 TV	120VAC	
15	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1080	120VAC	GROUP
16	SPDT	RECEPTACLE	CHASE D1014	CELL ADA D1081	120VAC	
17	SPDT	RECEPTACLE	CHASE D1014	CELL D2081	120VAC	
18	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1070 TV	120VAC	
19	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1070	120VAC	GROUP
20	SPDT	RECEPTACLE	CHASE D1014	CELL ADA D1072	120VAC	
21	SPDT	RECEPTACLE	CHASE D1014	CELL D2072	120VAC	
22	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1060 TV	120VAC	
23	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1060	120VAC	GROUP
24	SPDT	RECEPTACLE	CHASE D1014	CELL ADA D1061	120VAC	
25	SPDT	RECEPTACLE	CHASE D1014	CELL D2061	120VAC	
26	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1050 TV	120VAC	
27	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1050	120VAC	GROUP
28	SPDT	RECEPTACLE	CHASE D1014	CELL ADA D1054	120VAC	
29	SPDT	RECEPTACLE	CHASE D1014	CELL D2054	120VAC	
30	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1040 TV	120VAC	
31	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1040	120VAC	GROUP
32	SPDT	RECEPTACLE	CHASE D1014	CELL ADA D1041	120VAC	
33	SPDT	RECEPTACLE	CHASE D1014	CELL D2041	120VAC	
34	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1030 TV	120VAC	
35	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1030	120VAC	GROUP
36	SPDT	RECEPTACLE	CHASE D1014	CELL ADA D1032	120VAC	
37	SPDT	RECEPTACLE	CHASE D1014	CELL D2032	120VAC	
38	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1020 TV	120VAC	
39	SPDT	RECEPTACLE	CHASE D1014	DAYROOM D1020	120VAC	GROUP
40	SPDT	RECEPTACLE	CHASE D1014	CELL ADA D1024	120VAC	
41	SPDT	RECEPTACLE	CHASE D1014	CELL D2024	120VAC	
42	SPDT	RECEPTACLE	CHASE D1014	SPARE	120VAC	

4 ES-303 **SQE#8 SCHEDULE**
SCALE: N/A

UTILITY RELAY CONTROL PANEL - SQE#9A						
RELAY #	TYPE	DEVICE	HEAD-END LOCATION	CONTROLLED DEVICE LOCATION	VOLTAGE	Notes:
1	SPDT	LIGHT	STORAGE E1016B	E1124, E1123, E1122, E1121, E2124, E2123, E2122, E2121	277VAC	GROUP
2	SPDT	LIGHT	STORAGE E1016B	DAYROOM E1120	277VAC	
3	SPDT	LIGHT	STORAGE E1016B	E1112, E1111, E2112, E2111	277VAC	GROUP
4	SPDT	LIGHT	STORAGE E1016B	DAYROOM E1110	277VAC	
5	SPDT	LIGHT	STORAGE E1016B	E1093, E1092, E1091, E2093, E2092, E2091	277VAC	GROUP
6	SPDT	LIGHT	STORAGE E1016B	DAYROOM E1090	277VAC	
7	SPDT	LIGHT	STORAGE E1016B	E1084, E1083, E1082, E1081, E2084, E2083, E2082, E2081	277VAC	GROUP
8	SPDT	LIGHT	STORAGE E1016B	DAYROOM E1080	277VAC	
9	SPDT	LIGHT	STORAGE E1016B	E1072, E1071, E2072, E2071	277VAC	GROUP
10	SPDT	LIGHT	STORAGE E1016B	DAYROOM D1070	277VAC	
11	SPDT	LIGHT	STORAGE E1016B	E1062, E1061, E2062, E2061	277VAC	GROUP
12	SPDT	LIGHT	STORAGE E1016B	DAYROOM D1060	277VAC	
13	SPDT	LIGHT	STORAGE E1016B	E1054, E1053, E1052, E1051, E2054, E2053, E2052, E2051	277VAC	GROUP
14	SPDT	LIGHT	STORAGE E1016B	DAYROOM D1050	277VAC	
15	SPDT	LIGHT	STORAGE E1016B	E1043, E1042, E1041, E2043, E2042, E2041	277VAC	GROUP
16	SPDT	LIGHT	STORAGE E1016B	DAYROOM D1040	277VAC	
17	SPDT	LIGHT	STORAGE E1016B	CELL E1032	277VAC	
18	SPDT	LIGHT	STORAGE E1016B	CELL E1031	277VAC	
19	SPDT	LIGHT	STORAGE E1016B	CELL E2032	277VAC	
20	SPDT	LIGHT	STORAGE E1016B	CELL E2031	277VAC	
21	SPDT	LIGHT	STORAGE E1016B	DAYROOM D1030	277VAC	
22	SPDT	LIGHT	STORAGE E1016B	CELL E1026	277VAC	
23	SPDT	LIGHT	STORAGE E1016B	CELL E1025	277VAC	
24	SPDT	LIGHT	STORAGE E1016B	CELL E1024	277VAC	
25	SPDT	LIGHT	STORAGE E1016B	CELL E1023	277VAC	
26	SPDT	LIGHT	STORAGE E1016B	CELL E1022	277VAC	
27	SPDT	LIGHT	STORAGE E1016B	CELL E1021	277VAC	
28	SPDT	LIGHT	STORAGE E1016B	CELL E2026	277VAC	
29	SPDT	LIGHT	STORAGE E1016B	CELL E2025	277VAC	
30	SPDT	LIGHT	STORAGE E1016B	CELL E2024	277VAC	
31	SPDT	LIGHT	STORAGE E1016B	CELL E2023	277VAC	
32	SPDT	LIGHT	STORAGE E1016B	CELL E2022	277VAC	
33	SPDT	LIGHT	STORAGE E1016B	CELL E2021	277VAC	
34	SPDT	LIGHT	STORAGE E1016B	DAYROOM D1020	277VAC	
35	SPDT	LIGHT	STORAGE E1016B	SPARE	277VAC	
36	SPDT	LIGHT	STORAGE E1016B	SPARE	277VAC	

5 ES-303 **SQE#9A SCHEDULE**
SCALE: N/A

NOTES:

1. EACH FIELD DEVICE REQUIRES SPECIFIED WIRE QUANTITY.
2. FIELD DEVICE WIRING SHOWN FOR EACH DEVICE TO BE HOME RUN. WIRING FOR LIKE DEVICES MAY BE RUN IN THE SAME CONDUIT AND/OR CABLE TRAY.
3. WP - WEST PENN, MAY SUBSTITUTE
4. WIRE TYPES ARE TYPICAL, DIV. 26 TO MEET ALL ELECTRICAL CODES AND SPECIFICATION MINIMUMS INCLUDING THE USE OF PLENUM AND WET RATED CABLE WHERE APPLICABLE.
5. INDICATES UPS POWER REQUIRED POWER WIRING AND RECEPTACLES BY DIV. 26
6. DIV. 26 CONTRACTOR TO REFERENCE DIV. 26 SPECIFICATIONS FOR ALL CONDUIT/RACEWAY AND CABLE REQUIREMENTS.
7. DIV. 26 AND DIV. 28 TO COORDINATE EXACT LOCATION OF DEVICES WITH OWNER.
8. DIV. 26 SHALL REFER TO APPROVED DIV. 28 SHOP DRAWINGS FOR ACTUAL CABLE REQUIREMENTS, NUMBER OF EQUIPMENT ENCLOSURES, AND SYSTEM LAYOUT. DIV. 26 SHALL COORDINATE WITH DIV. 28 FOR SYSTEM REQUIREMENTS.
9. REFERENCE DIV. 26 DRAWINGS FOR PANELBOARD SCHEDULES. REFERENCE DIV. 28 DRAWINGS AND SPECIFICATIONS FOR RELAY CONTROL SCHEDULES.
10. DIV. 28 AND DIV. 26 SHALL COORDINATE CABLE OPENINGS WITH MILLWORK/CASEWORK PROVIDER.
11. VERIFY ACTUAL NUMBER OF ENCLOSURES WITH APPROVED SUBMITTAL DRAWINGS.
12. DIV. 26 TO RUN CABLING TO A 2 GANG, 3 1/2" DEEP BOX LOCATED WITHIN 4 FEET OF GUI STATION.
13. NETWORK NODE ENCLOSURES SHALL BE WALL MOUNTED IN EQUIPMENT ROOM.
14. SPEAKERS IN THE SAME ZONE CAN BE DAISY-CHAINED. DIV. 26 SHALL REFERENCE APPROVED SUBMITTAL DRAWINGS FOR FINAL ZONE ASSIGNMENTS.
15. WALL MOUNT MONITORS IN CONTROL ROOMS TO BE CONNECTED TO NETWORK VIDEO CLIENT PCS VIA DIV. 28-PROVIDED DVI CABLE AND INSTALLED BY DIV. 26.
16. CAT6 CABLE RUNS CANNOT EXCEED 300 FEET.
17. JUNCTION BOX LOCATED INSIDE ON WALL AT CABLE PENETRATION.
18. SITE-LOCATED EQUIPMENT ENCLOSURE FOR GATE ARM INTERFACE/CONTROL EQUIPMENT. REFERENCE SITE PLANS FOR EQUIPMENT LOCATIONS.
19. DIV. 28 SHALL PROVIDE AND INSTALL LOCAL UPS TO SUPPORT INSTALLED EQUIPMENT AT THIS LOCATION.
20. DIV. 26 SHALL REFERENCE CAMERA SCHEDULE IN DIV. 28 SPECIFICATIONS FOR TERMINATION LOCATIONS.

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RMT CHKD: CAG
DESIGNED: RMT
APPRVD: ERR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

TERRE HAUTE INDIANA
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

SECURITY ELECTRONICS SCHEDULES
- PART 1 (OF 3)

DRAWING NUMBER
ES-303
SECURITY ELECTRONICS

UTILITY RELAY CONTROL PANEL - SQE#9B						
RELAY #	TYPE	DEVICE	HEAD-END LOCATION	CONTROLLED DEVICE LOCATION	VOLTAGE	Notes:
1	SPDT	RECEPTACLE	STORAGE E1016B	DAYROOM E1120 TV	120VAC	
2	SPDT	RECEPTACLE	STORAGE E1016B	DAYROOM E1120	120VAC	GROUP
3	SPDT	RECEPTACLE	STORAGE E1016B	CELL ADA E1121	120VAC	
4	SPDT	RECEPTACLE	STORAGE E1016B	CELL E2121	120VAC	
5	SPDT	RECEPTACLE	STORAGE E1016B	DAYROOM E1110 TV	120VAC	
6	SPDT	RECEPTACLE	STORAGE E1016B	DAYROOM E1110	120VAC	GROUP
7	SPDT	RECEPTACLE	STORAGE E1016B	CELL ADA E1111	120VAC	
8	SPDT	RECEPTACLE	STORAGE E1016B	CELL E2111	120VAC	
9	SPDT	RECEPTACLE	STORAGE E1016B	DAYROOM E1090 TV	120VAC	
10	SPDT	RECEPTACLE	STORAGE E1016B	DAYROOM E1090	120VAC	GROUP
11	SPDT	RECEPTACLE	STORAGE E1016B	CELL ADA E1093	120VAC	
12	SPDT	RECEPTACLE	STORAGE E1016B	CELL E2093	120VAC	
13	SPDT	RECEPTACLE	STORAGE E1016B	DAYROOM E1080 TV	120VAC	
14	SPDT	RECEPTACLE	STORAGE E1016B	DAYROOM E1080	120VAC	GROUP
15	SPDT	RECEPTACLE	STORAGE E1016B	CELL ADA E1081	120VAC	
16	SPDT	RECEPTACLE	STORAGE E1016B	CELL E2081	120VAC	
17	SPDT	RECEPTACLE	STORAGE E1016B	DAYROOM E1070 TV	120VAC	
18	SPDT	RECEPTACLE	STORAGE E1016B	DAYROOM E1070	120VAC	GROUP
19	SPDT	RECEPTACLE	STORAGE E1016B	CELL ADA E1072	120VAC	
20	SPDT	RECEPTACLE	STORAGE E1016B	CELL E2072	120VAC	
21	SPDT	RECEPTACLE	STORAGE E1016B	SPARE	120VAC	
22	SPDT	RECEPTACLE	STORAGE E1016B	SPARE	120VAC	

1 ES-304 **SQE#9B SCHEDULE**
SCALE: N/A

UTILITY RELAY CONTROL PANEL - SQE#10						
RELAY #	TYPE	DEVICE	HEAD-END LOCATION	CONTROLLED DEVICE LOCATION	VOLTAGE	Notes:
1	SPDT	RECEPTACLE	CHASE E1014	CONFERENCE ROOM E1005	120VAC	
2	SPDT	RECEPTACLE	CHASE E1014	CLASSROOM E1008	120VAC	
3	SPDT	RECEPTACLE	CHASE E1014	DAYROOM E1060 TV	120VAC	
4	SPDT	RECEPTACLE	CHASE E1014	DAYROOM E1060	120VAC	GROUP
5	SPDT	RECEPTACLE	CHASE E1014	CELL ADA E1061	120VAC	
6	SPDT	RECEPTACLE	CHASE E1014	CELL E2061	120VAC	
7	SPDT	RECEPTACLE	CHASE E1014	DAYROOM E1050 TV	120VAC	
8	SPDT	RECEPTACLE	CHASE E1014	DAYROOM E1050	120VAC	GROUP
9	SPDT	RECEPTACLE	CHASE E1014	CELL ADA E1054	120VAC	
10	SPDT	RECEPTACLE	CHASE E1014	CELL E2054	120VAC	
11	SPDT	RECEPTACLE	CHASE E1014	DAYROOM E1040 TV	120VAC	
12	SPDT	RECEPTACLE	CHASE E1014	DAYROOM E1040	120VAC	GROUP
13	SPDT	RECEPTACLE	CHASE E1014	CELL ADA E1041	120VAC	
14	SPDT	RECEPTACLE	CHASE E1014	CELL E2041	120VAC	
15	SPDT	RECEPTACLE	CHASE E1014	DAYROOM E1030 TV	120VAC	
16	SPDT	RECEPTACLE	CHASE E1014	DAYROOM E1030	120VAC	GROUP
17	SPDT	RECEPTACLE	CHASE E1014	CELL ADA E1032	120VAC	
18	SPDT	RECEPTACLE	CHASE E1014	CELL E2032	120VAC	
19	SPDT	RECEPTACLE	CHASE E1014	DAYROOM E1020 TV	120VAC	
20	SPDT	RECEPTACLE	CHASE E1014	DAYROOM E1020	120VAC	GROUP
21	SPDT	RECEPTACLE	CHASE E1014	CELL ADA E1026	120VAC	
22	SPDT	RECEPTACLE	CHASE E1014	CELL E2026	120VAC	
23	SPDT	RECEPTACLE	CHASE E1014	SPARE	120VAC	
24	SPDT	RECEPTACLE	CHASE E1014	SPARE	120VAC	

2 ES-304 **SQE#10 SCHEDULE**
SCALE: N/A

UTILITY RELAY CONTROL PANEL - SQE#11						
RELAY #	TYPE	DEVICE	HEAD-END LOCATION	CONTROLLED DEVICE LOCATION	VOLTAGE	Notes:
1	SPDT	LIGHT	ELECTRICAL B1028	CELL B1097	277VAC	
2	SPDT	LIGHT	ELECTRICAL B1028	CELL B1098	277VAC	
3	SPDT	LIGHT	ELECTRICAL B1028	CELL B1099	277VAC	
4	SPDT	LIGHT	ELECTRICAL B1028	CELL B1100	277VAC	
5	SPDT	LIGHT	ELECTRICAL B1028	CELL B1101	277VAC	
6	SPDT	LIGHT	ELECTRICAL B1028	CELL B1102	277VAC	
7	SPDT	LIGHT	ELECTRICAL B1028	CELL B1103	277VAC	
8	SPDT	LIGHT	ELECTRICAL B1028	CELL B1104	277VAC	
9	SPDT	LIGHT	ELECTRICAL B1028	CELL B1105	277VAC	
10	SPDT	LIGHT	ELECTRICAL B1028	CELL B1106	277VAC	
11	SPDT	LIGHT	ELECTRICAL B1028	CELL B1109	277VAC	
12	SPDT	LIGHT	ELECTRICAL B1028	CELL B1111	277VAC	
13	SPDT	LIGHT	ELECTRICAL B1028	FEMALE CELL ADA B1114	277VAC	
14	SPDT	LIGHT	ELECTRICAL B1028	FEMALE CELL B1115	277VAC	
15	SPDT	LIGHT	ELECTRICAL B1028	FEMALE CELL B1116	277VAC	
16	SPDT	LIGHT	ELECTRICAL B1028	FEMALE CELL B1117	277VAC	
17	SPDT	LIGHT	ELECTRICAL B1028	FEMALE CELL B1118	277VAC	
18	SPDT	LIGHT	ELECTRICAL B1028	SPARE	277VAC	
19	SPDT	LIGHT	ELECTRICAL B1028	SPARE	277VAC	
20	SPDT	LIGHT	ELECTRICAL B1028	SPARE	277VAC	

3 ES-304 **SQE#11 SCHEDULE**
SCALE: N/A

UTILITY RELAY CONTROL PANEL - SQE#12						
RELAY #	TYPE	DEVICE	HEAD-END LOCATION	CONTROLLED DEVICE LOCATION	VOLTAGE	Notes:
1	SPDT	LIGHT	MECHANICAL B2000	CELLS D1021, D1022, D1023, D1024, D2021, D2022, D2023, D2024	277VAC	GROUP
2	SPDT	LIGHT	MECHANICAL B2000	DAYROOM D1020	277VAC	
3	SPDT	LIGHT	MECHANICAL B2000	CELLS D1031, D1032, D2031, D2032	277VAC	GROUP
4	SPDT	LIGHT	MECHANICAL B2000	DAYROOM D1030	277VAC	
5	SPDT	LIGHT	MECHANICAL B2000	CELLS D1041, D1042, D1043, D2041, D2042, D2043	277VAC	GROUP
6	SPDT	LIGHT	MECHANICAL B2000	DAYROOM D1040	277VAC	
7	SPDT	LIGHT	MECHANICAL B2000	CELLS D1051, D1052, D1053, D1054, D2051, D2052, D2053, D2054	277VAC	GROUP
8	SPDT	LIGHT	MECHANICAL B2000	DAYROOM D1050	277VAC	
9	SPDT	LIGHT	MECHANICAL B2000	CELLS D1061, D1062, D2061, D2062	277VAC	GROUP
10	SPDT	LIGHT	MECHANICAL B2000	DAYROOM D1060	277VAC	
11	SPDT	LIGHT	MECHANICAL B2000	CELLS D1071, D1072, D2071, D2072	277VAC	GROUP
12	SPDT	LIGHT	MECHANICAL B2000	DAYROOM D1070	277VAC	
13	SPDT	LIGHT	MECHANICAL B2000	CELLS D1081, D1082, D1083, D1084, D2081, D2082, D2083, D2084	277VAC	GROUP
14	SPDT	LIGHT	MECHANICAL B2000	DAYROOM D1080	277VAC	
15	SPDT	LIGHT	MECHANICAL B2000	CELLS D1091, D1092, D1093, D2091, D2092, D2093	277VAC	GROUP
16	SPDT	LIGHT	MECHANICAL B2000	DAYROOM D1090	277VAC	
17	SPDT	LIGHT	MECHANICAL B2000	CELL D1111	277VAC	
18	SPDT	LIGHT	MECHANICAL B2000	CELL D1112	277VAC	
19	SPDT	LIGHT	MECHANICAL B2000	CELL D2111	277VAC	
20	SPDT	LIGHT	MECHANICAL B2000	CELL D2112	277VAC	
21	SPDT	LIGHT	MECHANICAL B2000	DAYROOM D1110	277VAC	
22	SPDT	LIGHT	MECHANICAL B2000	CELL D1121	277VAC	
23	SPDT	LIGHT	MECHANICAL B2000	CELL D1122	277VAC	
24	SPDT	LIGHT	MECHANICAL B2000	CELL D1123	277VAC	
25	SPDT	LIGHT	MECHANICAL B2000	CELL D1124	277VAC	
26	SPDT	LIGHT	MECHANICAL B2000	CELL D1125	277VAC	
27	SPDT	LIGHT	MECHANICAL B2000	CELL D1126	277VAC	
28	SPDT	LIGHT	MECHANICAL B2000	CELL D2121	277VAC	
29	SPDT	LIGHT	MECHANICAL B2000	CELL D2122	277VAC	
30	SPDT	LIGHT	MECHANICAL B2000	CELL D2123	277VAC	
31	SPDT	LIGHT	MECHANICAL B2000	CELL D2124	277VAC	
32	SPDT	LIGHT	MECHANICAL B2000	CELL D2125	277VAC	
33	SPDT	LIGHT	MECHANICAL B2000	CELL D2126	277VAC	
34	SPDT	LIGHT	MECHANICAL B2000	DAYROOM D1120	277VAC	
35	SPDT	LIGHT	MECHANICAL B2000	SPARE	277VAC	
36	SPDT	LIGHT	MECHANICAL B2000	SPARE	277VAC	

4 ES-304 **SQE#12 SCHEDULE**
SCALE: N/A

NOTES:

1. EACH FIELD DEVICE REQUIRES SPECIFIED WIRE QUANTITY.
2. FIELD DEVICE WIRING SHOWN FOR EACH DEVICE TO BE HOME RUN. WIRING FOR LIKE DEVICES MAY BE RUN IN THE SAME CONDUIT AND/OR CABLE TRAY.
3. WP - WEST PENN, MAY SUBSTITUTE
4. WIRE TYPES ARE TYPICAL, DIV. 26 TO MEET ALL ELECTRICAL CODES AND SPECIFICATION MINIMUMS INCLUDING THE USE OF PLENUM AND WET RATED CABLE WHERE APPLICABLE.
5. INDICATES UPS POWER REQUIRED POWER WIRING AND RECEPTACLES BY DIV. 26
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14. SPEAKERS IN THE SAME ZONE CAN BE DAISY-CHAINED. DIV. 26 SHALL REFERENCE APPROVED SUBMITTAL DRAWINGS FOR FINAL ZONE ASSIGNMENTS.
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16. CAT6 CABLE RUNS CANNOT EXCEED 300 FEET.
17. JUNCTION BOX LOCATED INSIDE ON WALL AT CABLE PENETRATION.
18. SITE-LOCATED EQUIPMENT ENCLOSURE FOR GATE ARM INTERFACE/CONTROL EQUIPMENT. REFERENCE SITE PLANS FOR EQUIPMENT LOCATIONS.
19. DIV. 28 SHALL PROVIDE AND INSTALL LOCAL UPS TO SUPPORT INSTALLED EQUIPMENT AT THIS LOCATION.
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DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RMT
CHK'D: CAG
DESIGNED: RMT
APPRV'D: ESR
DATE: SEPTEMBER 3, 2019
PROJECT NUMBER 1663-1190-90

TERRE HAUTE INDIANA
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

SECURITY ELECTRONICS SCHEDULES - PART 2 (OF 3)

DRAWING NUMBER
ES-304
SECURITY ELECTRONICS

INMATE TELEPHONE INTERFACE RELAY CONTROL PANEL - SQE#13

RELAY #	TYPE	DEVICE	HEAD-END LOCATION	CONTROLLED DEVICE LOCATION
1	DPDT	TELEPHONE	B1060	D1020(a)
2	DPDT	TELEPHONE	B1060	D1020(b)
3	DPDT	TELEPHONE	B1060	D1030(a)
4	DPDT	TELEPHONE	B1060	D1030(b)
5	DPDT	TELEPHONE	B1060	D1040(a)
6	DPDT	TELEPHONE	B1060	D1040(b)
7	DPDT	TELEPHONE	B1060	D1050(a)
8	DPDT	TELEPHONE	B1060	D1050(b)
9	DPDT	TELEPHONE	B1060	D1060(a)
10	DPDT	TELEPHONE	B1060	D1060(b)
11	DPDT	TELEPHONE	B1060	D1070(a)
12	DPDT	TELEPHONE	B1060	D1070(b)
13	DPDT	TELEPHONE	B1060	D1080(a)
14	DPDT	TELEPHONE	B1060	D1080(b)
15	DPDT	TELEPHONE	B1060	D1090(a)
16	DPDT	TELEPHONE	B1060	D1090(b)
17	DPDT	TELEPHONE	B1060	D1110(a)
18	DPDT	TELEPHONE	B1060	D1110(b)
19	DPDT	TELEPHONE	B1060	D1120(a)
20	DPDT	TELEPHONE	B1060	D1120(b)
21	DPDT	TELEPHONE	B1060	E1020(a)
22	DPDT	TELEPHONE	B1060	E1020(b)
23	DPDT	TELEPHONE	B1060	E1030(a)
24	DPDT	TELEPHONE	B1060	E1030(b)
25	DPDT	TELEPHONE	B1060	E1040(a)
26	DPDT	TELEPHONE	B1060	E1040(b)
27	DPDT	TELEPHONE	B1060	E1050(a)
28	DPDT	TELEPHONE	B1060	E1050(b)
29	DPDT	TELEPHONE	B1060	E1060(a)
30	DPDT	TELEPHONE	B1060	E1060(b)
31	DPDT	TELEPHONE	B1060	E1070(a)
32	DPDT	TELEPHONE	B1060	E1070(b)
33	DPDT	TELEPHONE	B1060	E1080(a)
34	DPDT	TELEPHONE	B1060	E1080(b)
35	DPDT	TELEPHONE	B1060	E1090(a)
36	DPDT	TELEPHONE	B1060	E1090(b)
37	DPDT	TELEPHONE	B1060	E1110(a)
38	DPDT	TELEPHONE	B1060	E1110(b)
39	DPDT	TELEPHONE	B1060	E1120(a)
40	DPDT	TELEPHONE	B1060	E1120(b)
41	DPDT	TELEPHONE	B1060	B1037

1 ES-305 **SQE#13 SCHEDULE**
SCALE: N/A

NOTES:

1. EACH FIELD DEVICE REQUIRES SPECIFIED WIRE QUANTITY.
2. FIELD DEVICE WIRING SHOWN FOR EACH DEVICE TO BE HOME RUN. WIRING FOR LIKE DEVICES MAY BE RUN IN THE SAME CONDUIT AND/OR CABLE TRAY.
3. WP - WEST PENN, MAY SUBSTITUTE
4. WIRE TYPES ARE TYPICAL, DIV. 26 TO MEET ALL ELECTRICAL CODES AND SPECIFICATION MINIMUMS INCLUDING THE USE OF PLENUM AND WET RATED CABLE WHERE APPLICABLE.
5. INDICATES UPS POWER REQUIRED POWER WIRING AND RECEPTACLES BY DIV. 26
6. DIV. 26 CONTRACTOR TO REFERENCE DIV. 26 SPECIFICATIONS FOR ALL CONDUIT/RACEWAY AND CABLE REQUIREMENTS.
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13. NETWORK NODE ENCLOSURES SHALL BE WALL MOUNTED IN EQUIPMENT ROOM.
14. SPEAKERS IN THE SAME ZONE CAN BE DAISY-CHAINED. DIV. 26 SHALL REFERENCE APPROVED SUBMITTAL DRAWINGS FOR FINAL ZONE ASSIGNMENTS.
15. WALL MOUNT MONITORS IN CONTROL ROOMS TO BE CONNECTED TO NETWORK VIDEO CLIENT PCS VIA DIV. 28-PROVIDED DVI CABLE AND INSTALLED BY DIV. 26.
16. CAT6 CABLE RUNS CANNOT EXCEED 300 FEET.
17. JUNCTION BOX LOCATED INSIDE ON WALL AT CABLE PENETRATION.
18. SITE-LOCATED EQUIPMENT ENCLOSURE FOR GATE ARM INTERFACE/CONTROL EQUIPMENT. REFERENCE SITE PLANS FOR EQUIPMENT LOCATIONS.
19. DIV. 28 SHALL PROVIDE AND INSTALL LOCAL UPS TO SUPPORT INSTALLED EQUIPMENT AT THIS LOCATION.
20. DIV. 26 SHALL REFERENCE CAMERA SCHEDULE IN DIV. 28 SPECIFICATIONS FOR TERMINATION LOCATIONS.

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DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RMT CHK'D: CAG
DESIGNED: RMT
APPRV'D: BBR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

TERRE HAUTE INDIANA
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

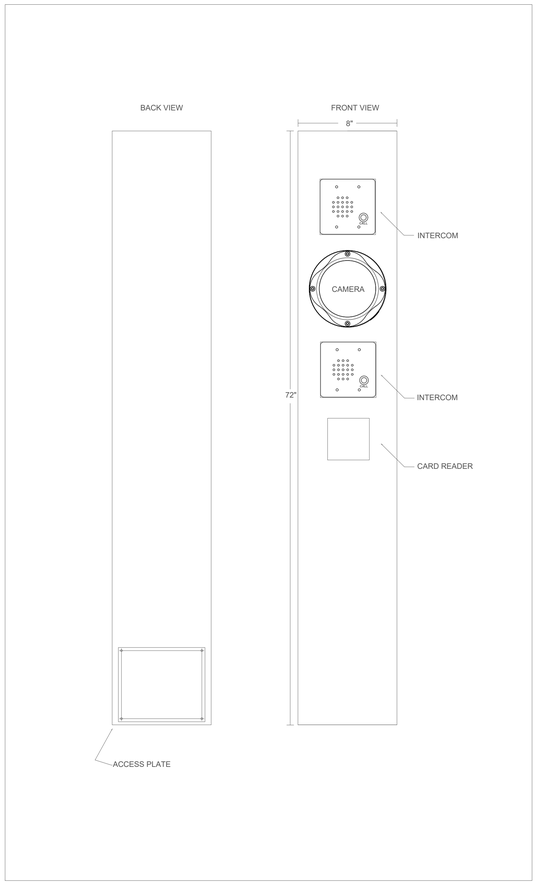
SECURITY ELECTRONICS SCHEDULES - PART 3 (OF 3)

DRAWING NUMBER
ES-305
SECURITY ELECTRONICS

BACKBOX REQUIREMENTS

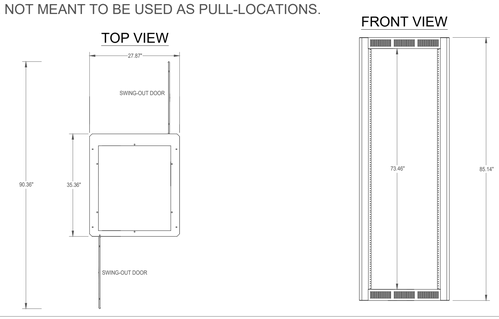
SYMBOL	UNIT	DESCRIPTION
GUI#	GRAPHICAL USER INTERFACE STATION	2 GANG BOX BY DIV. 26 LOCATED UNDER MILLWORK. GUI STATION MONITOR LOCATED ON MILLWORK SURFACE.
SMS	SECURITY MANAGEMENT SERVER	SINGLE GANG BOX BY DIV. 26 LOCATED UNDER DESKTOP SURFACE. SMS MONITOR LOCATED ON DESK SURFACE.
SL	MONITORED AND CONTROLLED DOOR	IN DOOR FRAME, BY OTHERS
OH	OVERHEAD DOOR/COILING DOOR	2 GANG BOX ADJACENT TO DOOR OPERATOR, AND SINGLE GANG BOX ADJACENT TO DOOR POSITION SWITCH
DPS	DOOR POSITION SWITCH	IN DOOR FRAME, BY OTHERS
PR PK	PROXIMITY READER, PROXIMITY/KEYPAD READER	SINGLE GANG BOX BY DIV. 26 OR SINGLE GANG BOX IN FRAME BY DIV. 11
EL	CONTROLLED DOOR (ACCESS SYSTEM ONLY)	IN DOOR FRAME, BY OTHERS
RQE	REQUEST TO EXIT MOTION DETECTOR	SINGLE GANG BOX OR CONDUIT STUB BY DIV. 26
DR	DOOR RELEASE PUSHBUTTON	SINGLE GANG BOX BY DIV. 26
MS	MOTION SENSOR	SINGLE GANG BOX BY DIV. 26
D-UC	DURESS PUSHBUTTON, UNDER COUNTER	SINGLE GANG BOX UNDER MILLWORK BY DIV. 26
D-WM	DURESS PUSHBUTTON, WALL-MOUNTED	SINGLE GANG $3\frac{1}{2}$" DEEP BOX BY DIV. 26
I	REMOTE INTERCOM STATION W/CALL SWITCH	2 GANG $3\frac{1}{2}$" DEEP MASONRY BOX BY DIV. 26 OR 2 GANG $3\frac{1}{2}$" DEEP BOX IN FRAME BY DIV. 11
M	CEILING-MOUNTED MICROPHONE	SINGLE GANG BOX IN CEILING BY DIV. 26
S T	CEILING-MOUNTED PAGING SPEAKER, CEILING SPEAKER WITH AUDIO THRESHOLD DETECTION	CUSTOM FLUSH MOUNT OR SURFACE BOX PROVIDED BY DIV. 28, INSTALLED BY DIV. 26
VH	VISITATION HANDSET	2 GANG $3\frac{1}{2}$" DEEP BOX BY DIV. 26
	INTERIOR CCTV CAMERA	FOR SURFACE MOUNT ON CONCRETE, CONDUIT STUB BY DIV. 26. FOR DROP CEILING, 4 SQUARE OR 2-GANG BOX BY DIV. 26 AND HOUSING AND ELECTRICAL BOX ADAPTER BY DIV. 28.
	EXTERIOR CCTV CAMERA	HOUSING, MOUNT AND JUNCTION BOX ADAPTER BY DIV. 28. 4 SQUARE, 2 GANG BACK BOX, OR CONDUIT STUB BY DIV. 26.
M	CCTV MONITOR	EQUIPMENT LOCATED ON MILLWORK SURFACE. VIDEO CABLE BETWEEN MONITOR AND PC PROVIDED BY DIV. 28.
NVC	NETWORK VIDEO CLIENT COMPUTER	SINGLE GANG BOX UNDER MILLWORK/DESK BY DIV. 26

1 ES-400 **BACKBOX SCHEDULE**
SCALE: NONE



2 ES-400 **INTERCOM BOLLARD DETAIL**
SCALE: NONE

DIV. 26 SHALL VERIFY ACTUAL NUMBER OF FREE-STANDING SECURITY EQUIPMENT ENCLOSURES REQUIRED WITH DIV. 28 SHOP DRAWINGS. DIV. 26 SHALL ROUTE CABLE THROUGH THE TOP OF EQUIPMENT ENCLOSURES. DIV. 26 SHALL INSTALL CABLE THROUGH ABOVE RACKS IN ORDER TO DISTRIBUTE CABLE. SECURITY EQUIPMENT ENCLOSURES ARE NOT MEANT TO BE USED AS PULL-LOCATIONS.



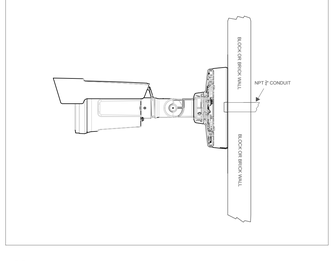
3 ES-400 **FREE-STANDING ENCLOSURE DETAIL**
SCALE: NONE

CABLE SCHEDULE

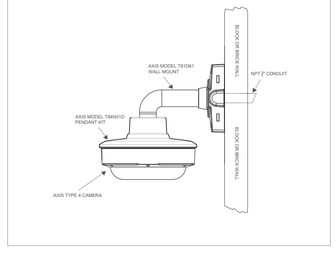
MFG	PART #	ABBREVIATION	DESCRIPTION
WEST PENN	224	WP224	18/2 STRANDED BARE COPPER CONDUCTORS, UNSHIELDED WITH AN OVERALL JACKET
WEST PENN	234	WP234	18/3 STRANDED BARE COPPER CONDUCTORS, UNSHIELDED WITH AN OVERALL JACKET
WEST PENN	244	WP244	18/4 STRANDED BARE COPPER CONDUCTORS, UNSHIELDED WITH AN OVERALL JACKET
WEST PENN	245	WP245	16/4 STRANDED BARE COPPER CONDUCTORS, UNSHIELDED WITH AN OVERALL JACKET
WEST PENN	290	WP290	22/2 SOLID BARE COPPER CONDUCTORS, SHIELDED WITH AN OVERALL JACKET
WEST PENN	292	WP292	20/2 STRANDED BARE COPPER CONDUCTORS, SHIELDED WITH AN OVERALL JACKET
WEST PENN	293	WP293	18/2 STRANDED BARE COPPER CONDUCTORS, SHIELDED WITH AN OVERALL JACKET
WEST PENN	3271	WP3271	22/8 STRANDED BARE COPPER CONDUCTORS, SHIELDED WITH AN OVERALL JACKET
WEST PENN	25274B	WP25274B	22/15 STRANDED BARE COPPER CONDUCTORS, UNSHIELDED WITH AN OVERALL JACKET, PLENUM
WEST PENN	9C045T	WP9C045T	6 FIBER INDOOR/OUTDOOR 50/125um OFNP OM3
WEST PENN	9C240T	WP9C240T	INTERLOCKED ARMOR DISTRIBUTION CABLE - 6 FIBER OM3 OFCP

NOTES: PART NUMBERS ARE NON-PLENUM RATED. DIV. 26 SHALL UTILIZE THE EQUIVALENT PLENUM RATED OR WET RATED CABLE WHERE REQUIRED.

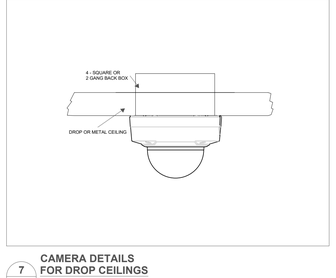
4 ES-400 **CABLE SCHEDULE**
SCALE: NONE



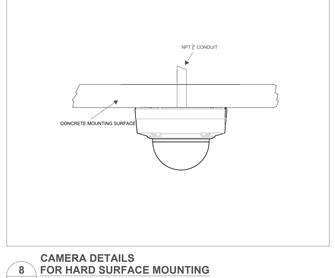
5 ES-400 **TYPE 5 CAMERA DETAILS**
SCALE: NONE



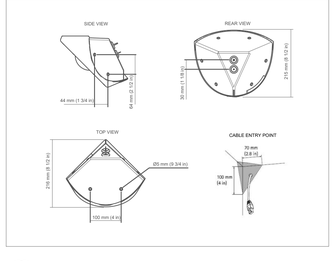
6 ES-400 **TYPE 4 CAMERA DETAILS**
SCALE: NONE



7 ES-400 **CAMERA DETAILS FOR DROP CEILINGS**
SCALE: NONE



8 ES-400 **CAMERA DETAILS FOR HARD SURFACE MOUNTING**
SCALE: NONE



9 ES-400 **TYPE 10 CAMERA DETAILS**
SCALE: NONE

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: RMT CHK'D: CAG
DESIGNED: RMT
APPRV'D: ESR
DATE: SEPTEMBER 5, 2019
PROJECT NUMBER 1663-1190-90

TERRE HAUTE INDIANA
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
SECURITY ELECTRONICS DETAILS

DRAWING NUMBER ES-400
SECURITY ELECTRONICS