ELECTRICAL SYMBOLS:

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.

SPECIAL RECEPTACLE, REFER TO MANUFACTURER REQUIREMENTS.
INSTALL
DEVICE WITH BOTTOM AT +16" A.F.F.
U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

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 S WP — TOGGLE SWITCH, 120/277V, 1-POLE, 20A.
ASTERISK "*" = VANDALPROOF STYLE DEVICE FACEPLATE.
WP=WEATHERPROOF ENCLOSURE, "a" INDICATES SWITCH LEG.

S 3a — TOGGLE SWITCH, THREE WAY TYPE, 120/277V, 20A, "a" INDICATES SWITCH LEG.

S 4a — TOGGLE SWITCH, FOUR WAY TYPE, 120/277V, 20A, "a" INDICATES SWITCH LEG.

S Da — DIMMABLE SWITCH, 120/277V, 20A, "a" INDICATES SWITCH LEG.

a (OC) OR (OC) a, WG 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 ACCESSIBLE TO FIREMAN FOR SMOKE MANAGEMENT CONTROL/TESTING.

RTS — ILLUMINATED REMOTE TEST STATION INTERLOCKED TO SHUTDOWN AIR HANDLING EQUIPMENT.

WP F * — NON-ADDRESSABLE FIRE ALARM HORN.
WP = WEATHERPROOF STYLE DEVICE.
ASTERISK "*" = VANDALPROOF STYLE DEVICE GUARD.

WP F * — NON-ADDRESSABLE FIRE ALARM HORN WITH VISUAL STROBE.
WP = WEATHERPROOF STYLE DEVICE.
ASTERISK "*" = VANDALPROOF STYLE DEVICE GUARD.

S F * — 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.

WP TS — FIRE ALARM MONITOR POINT, TAMPER SWITCH.
WP = WEATHERPROOF STYLE DEVICE.

FS — FIRE ALARM MONITOR POINT, FLOW SWITCH.

ANSUL — KITCHEN HOOD FIRE SUPPRESSION.

WP IAM — 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.

* V — 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" V — 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 V — 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 V — 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 V — 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 V — 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 V — (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 V — 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 V — 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.
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).

FD

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:

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:

PANEL 200 AMP 120/208V 3Ø, 4W MLO — MAIN LUG ONLY PANELBOARD. "PANEL" INDICATES PANEL DESIGNATION. "120/208" INDICATES PANEL OPERATING VOLTAGE. "3Ø, 4W" INDICATES PHASE AND WIRE. "200A 3P" INDICATES 3 POLE MAIN LUGS AND BUS RATED FOR 200A.

PANEL 200 AMP 120/208V 3Ø, 4W MCB — MAIN CIRCUIT BREAKER PANELBOARD. "PANEL" INDICATES PANEL DESIGNATION. "120/208" INDICATES PANEL OPERATING VOLTAGE. "3Ø, 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
AF	AMPERE FRAME
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BACnet	BUILDING AUTOMATION AND CONTROL NETWORKING PROTOCOL
BE	BURIED ELECTRIC
BFG	BELOW FINISH GRADE
BFO	BURIED FIBER OPTIC
BMS	BUILDING MANAGEMENT SYSTEM
BSMT	BASEMENT
BT	BURIED TELEPHONE
C	CONDUIT
CAT	CATEGORY
CATV	CABLE TELEVISION/COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CO	CARBON MONOXIDE
DED	DEDICATED
DFA	DROP FROM ABOVE
DIV	DIVISION
D.S	DISCONNECT SWITCH
ETR	EXISTING TO REMAIN
EX	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
(F)	FUTURE
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
F/SD	FIRE/SMOKE DAMPER
G	GROUND
GFI	GROUND FAULT INTERRUPT
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GRND	GROUND
HDMI	HIGH DEFINITION MULTIMEDIA
HMI	HUMAN MACHINE INTERFACE
HOA	HAND OFF AUTOMATIC
HLOA	HIGH LOW OFF AUTOMATIC
HNDLR	HANDLER
IAM	INTERMEDIATE ADDRESSABLE MODULE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IP	INTERNET PROTOCOL
KAIC	KILO-AMPERES INTERRUPTING CAPACITY
KVA	KILO-VOLT-AMPS
KW	KILOWATTS
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
LTG	LIGHTING
MATV	MASTER ANTENNA TELEVISION
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTS	MANUAL TRANSFER SWITCH
MUTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
NEC	NATIONAL ELECTRICAL CODE
NL	NON-SWITCHED NIGHT LIGHT
NO2	NITROGEN DIOXIDE
NO/NC	NORMALLY OPEN/NORMALLY CLOSED
NTRL	NEUTRAL
NTS	NOT TO SCALE
OCP	OVERCURRENT PROTECTIVE DEVICE
OCPD	OVERCURRENT PROTECTIVE DEVICE
OL	OVERLOADS
P	POLE
PC	PERSONAL COMPUTER
PH	PHASE
POE	POWER OVER ETHERNET
POTS	PLAIN OLD TELEPHONE SYSTEM
Ø	PHASE
RCPT	RECEPTACLE
RECEPT	RECEPTACLE
RLA	RUNNING LOAD AMPERES
RM.	ROOM
SE	SERVICE ENTRANCE
SP.	SPARE
SPEC	SPECIFICATIONS
SS	SOLID STATE (ELECTRONIC) BREAKER
SSOL	SOLID STATE OVERLOADS
ST	SAFETY TYPE
SW	SWITCH
TBI	TO BE INSTALLED
TBR	TO BE REMOVED
TCC	TEMPERATURE CONTROLS CONTRACTOR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TWSHPR	TWISTED SHIELDED PAIR
TWPR	TWISTED PAIR
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SOURCE
USB	UNIVERSAL SERIAL BUS
V	VOLTS
VESDA	VERY EARLY SMOKE DETECTION APPARATUS
VFD	VARIABLE FREQUENCY DRIVE
VOIP	VOICE OVER INTERNET PROTOCOL
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

GENERAL NOTES

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

B. (TYPICAL) CONDUIT DEPTH SHALL BE A MINIMUM 3'-6" BFG (I.E. BELOW FROSTLINE) U.O.N., COORDINATE DEPTH WITH PAVING DETAILS.

C. ELECTRIC UTILITY COMPANY IS DUKE ENERGY, 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.

T. AT BASE OF EACH LIGHTING POLE HANDHOLE, CONTRACTOR SHALL PROVIDE BAYONET BUSE(S), INSULATING LINK, AND INSULATED COMPRESSION FITTING ASSEMBLY. REFER TO DETAILS #3, #7, #11 AND #12 ON DRAWING E-806.

SITE KEYNOTES

2656##	2657##
2705##	2805##

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 MONUMENT 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.

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 2. 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 30'-0"H. FOR LIGHTING POLE FOUNDATION DETAIL, REFER TO SHEET E-802, DETAIL #5. PROVIDE 3'-0" SPACING BETWEEN EDGE OF PAVED ROADWAY/PARKING LOT AND EDGE OF CONCRETE POLE FOUNDATION.

SITE KEYNOTES

2656##	2657##
2705##	2805##

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-802, DETAIL #5. 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-802, 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-802, DETAIL #5. 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-802, DETAIL #5. 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.

265650 FURNISH AND INSTALL COMMUNICATION HANDHOLE. HANDHOLE COVER SHALL BE LABELED "FIBER OPTIC". FOR COMMUNICATION HANDHOLE DETAIL, REFER TO SHEET E-802, DETAIL 2. 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 (3)-4"C. FROM EXISTING UTILITY POLE TO MAIN DATA FRAME ROOM #B1060 FOR UTILITY COMMUNICATIONS FEEDS, ONE FIBER OPTIC VOIP/DATA, ONE FOR CATV AND ONE FOR 100-PAIR POTS LINES. COORDINATE EXACT LOCATION WITH OTHER TRADES BEFORE ROUGH-IN. FURNISH WITH PULLSTRINGS AND MARKER TAPES.

265661 RACEWAY #1/0, 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.

265666 FURNISH AND INSTALL CONDUIT SLEEVE 5'-0" BEYOND THE HANDHOLE FOR FUTURE USE (I.E. FUTURE LIGHTING FOR FUTURE EXTENSION/ADDITION TO NEW YARD/YARD FENCING TO BE INSTALLED). CAP CONDUIT END AND FLAG; RECORD LOCATION ON ELECTRICAL RECORD DRAWINGS. FURNISH WITH PULLSTRING IN CONDUIT SLEEVE.

265667 WALL MOUNT PHOTOCELL 12'-0" AFG (FIELD COORDINATE EXACT MOUNTING HEIGHT TO MATCH HEIGHT OF ADJACENT LIGHTING FIXTURES AS INDICATED ON ARCHITECTURAL ELEVATIONS/ELECTRICAL LIGHTING PLANS). FOR PHOTOCELL WIRING DETAILS, REFER TO EXTERIIOR LIGHTING WIRING DIAGRAMS ON SHEET E-807.

265668 REFER TO LIGHTING PLANS FOR DETAILED LOCATIONS OF TIMECLOCK, LIGHTING CONTACTORS, AND GENERATOR TRANSFER DEVICE; LOCATE THESE ELECTRICAL ITEMS ADJACENT TO ONE ANOTHER IN LOCATIONS AS INDICATED ON LIGHTING PLANS. FOR EXTERIOR LIGHTING CONTROL WIRING DETAILS, REFER TO EXTERIOR LIGHTING WIRING DIAGRAMS ON SHEET E-807.

265669 2 #10, #10G., 1"C (TYPICAL FOR ENTIRE CIRCUIT; I.E - ALL CIRCUIT SEGMENTS).

265670 2 #8, #10G., 1"C (TYPICAL FOR ENTIRE CIRCUIT; I.E - ALL CIRCUIT SEGMENTS).

265672 1#18 TWPR, 3/4"C.

265685 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #3 ON SHEET E-807. CONTROL VIA CONTACTOR #LC3B.

265690 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #2 ON SHEET E-807. CONTROL VIA CONTACTOR #LC2B.

265691 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #2 ON SHEET E-807. CONTROL VIA CONTACTOR #LC2C.

265692 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #2 ON SHEET E-807. CONTROL VIA CONTACTOR #LC2D.

265695 6#10, #10G., 1"C.

265696 2#10, 2#8, #10G., 1"C.

265702 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #1 ON SHEET E-807. CONTROL VIA CONTACTOR #LC1B.

265703 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #1 ON SHEET E-807. CONTROL VIA CONTACTOR #LC1C.

265704 RACEWAY #100, REFER TO ONE-LINE DIAGRAM, DRAWING E-601. FURNISH WITH PULLSTRING AND MARKER TAPE.

265705 RACEWAY #105 AND #315, REFER TO ONE-LINE DIAGRAM, DRAWING E-601. FURNISH WITH PULLSTRING AND MARKER TAPE.

265706 FURNISH AND INSTALL (1)-1"C. FROM MECHANICAL #C1053 TO SMOKER'S HUT FOR FUTURE POWER/LIGHTING. FURNISH WITH PULLSTRING AND MARKER TAPE. STUB AND CAP BELOW SMOKER'S HUT. STUB UP AND CAP BELOW PANEL 'E1PA' IN MECHANICAL ROOM.

265709 3#10, #10G., 3/4"C. FOR SECURITY CAMERA CIRCUITRY.

265710 3#10, #10G., 3/4"C. FOR SECURITY CAMERA CIRCUITRY.

265723 2#8, #10G., 3/4"C. (CIRCUIT E3PA-33) FOR GATE CONTROLLER.

265724 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. FIELD COORDINATE EXACT LOCATION FOR SE/GATE EQUIPMENT WITHIN THIS AREA WITH SE/GATE VENDORS PRIOR TO CONSTRUCTION.

265725 2#8, #10G., 3/4"C. (CIRCUIT E2PB-41) FOR GATE CONTROLLER.

270503 FURNISH AND INSTALL (1)-2"C. MINIMUM RIGID COUPLED STEEL OVER TO CHASE AND STUBBED OUT AT +12" A.F.F. FOR FUTURE COMMUNICATIONS CABLING. FURNISH WITH PULLSTRING.

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 #WPDC24GT 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.

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

NORTH

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1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

DRAWN: ROW | CHK'D: MLH
DESIGNED: TKF
APPRV'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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GENERAL NOTES

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

B. (TYPICAL) CONDUIT DEPTH SHALL BE A MINIMUM 3'-6" BFG (I.E. BELOW FROSTLINE) U.O.N., COORDINATE DEPTH WITH PAVING DETAILS.

C. ELECTRIC UTILITY COMPANY IS DUKE ENERGY, 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.

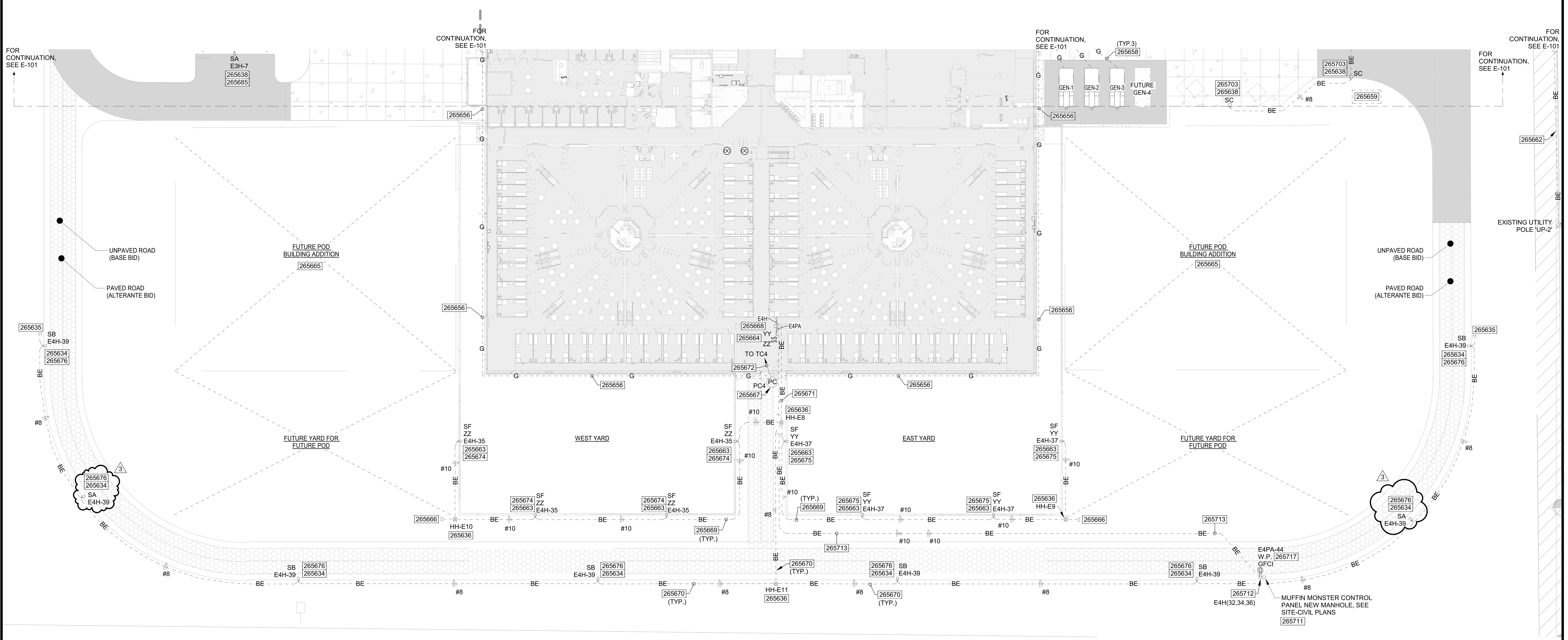
P. FOR BUILDING EXTERIOR, PERIMETER/COURTYARD/CANOPY LIGHTING, REFER TO SHEET E-301-A THROUGH E-301-E. ALSO REFER TO ARCHITECTURAL FACADE ELEVATION PLANS.

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.

T. AT BASE OF EACH LIGHTING POLE HANDHOLE, CONTRACTOR SHALL PROVIDE BAYONET BUSE(S), INSULATING LINK, AND INSULATED COMPRESSION FITTING ASSEMBLY. REFER TO DETAILS #3, #7, #11 AND #12 ON DRAWING E-806.



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

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 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 2. MINIMIZE SPLICES WITHIN HANDHOLE UNLESS OTHERWISE APPROVED BY ENGINEER.

265638 TOP OF CONCRETE BASE FOR LIGHT POLE SHALL BE 2'-6" AFG. LIGHT POLE SHALL BE 30'-0"H. FOR LIGHTING POLE FOUNDATION DETAIL, REFER TO SHEET E-802, DETAIL #5. PROVIDE 3'-0" SPACING BETWEEN EDGE OF PAVED ROADWAY/PARKING LOT AND EDGE OF CONCRETE POLE FOUNDATION.

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

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.

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

265663 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-802, DETAIL #3. LOCATE EDGE OF POLE FOUNDATION 5'-0" FROM THE EDGE OF THE FENCE.

265664 EXTERIOR TYPE 'SF' LIGHTING FIXTURES SHALL BE MANUALLY SWITCHED FROM LOCAL TOGGLE LIGHT SWITCH; FIXTURES SHALL ALSO BE CONTROLLED VIA LIGHTING CONTACTOR FOR DUSK-TO-DAWN CONTROL. PROVIDE LABEL ON TOGGLE SWITCH FACEPLATE IDENTIFYING EXTERIOR LIGHTING ALSO INTERLOCKED/CONTROLLED VIA LIGHTING CONTACTOR. YARD IS NOT NORMALLY OCCUPIED BY INMATES EXCEPT FOR AN EMERGENCY EVACUATION.

265665 AVOID ROUTING UNDERGROUND ELECTRICAL WITHIN 20'-0" OF THE FUTURE POD BUILDINGS.

265666 FURNISH AND INSTALL CONDUIT SLEEVE 5'-0" BEYOND THE HANDHOLE FOR FUTURE USE (I.E. FUTURE LIGHTING FOR FUTURE EXTENSION/ADDITION TO NEW YARD/YARD FENCING TO BE INSTALLED). CAP CONDUIT END AND FLAG; RECORD LOCATION ON ELECTRICAL RECORD DRAWINGS. FURNISH WITH PULLSTRING IN CONDUIT SLEEVE.

265667 WALL MOUNT PHOTOCELL 12'-0" AFG (FIELD COORDINATE EXACT MOUNTING HEIGHT TO MATCH HEIGHT OF ADJACENT LIGHTING FIXTURES AS INDICATED ON ARCHITECTURAL ELEVATIONS/ELECTRICAL LIGHTING PLANS). FOR PHOTOCELL WIRING DETAILS, REFER TO EXTERIIOR LIGHTING WIRING DIAGRAMS ON SHEET E-807.

265668 REFER TO LIGHTING PLANS FOR DETAILED LOCATIONS OF TIMECLOCK, LIGHTING CONTACTORS, AND GENERATOR TRANSFER DEVICE; LOCATE THESE ELECTRICAL ITEMS ADJACENT TO ONE ANOTHER IN LOCATIONS AS INDICATED ON LIGHTING PLANS. FOR EXTERIOR LIGHTING CONTROL WIRING DETAILS, REFER TO EXTERIOR LIGHTING WIRING DIAGRAMS ON SHEET E-807.

265669 2 #10, #10G., 1"C (TYPICAL FOR ENTIRE CIRCUIT; I.E - ALL CIRCUIT SEGMENTS).

265670 2 #8, #10G., 1"C (TYPICAL FOR ENTIRE CIRCUIT; I.E - ALL CIRCUIT SEGMENTS).

265671 4#10, 2#8, #10G., 1"C.

265672 1#18 TWPR, 3/4"C.

265674 FIXTURE SHALL BE MANUALLY SWITCHED FROM LOCAL TOGGLE LIGHT SWITCH, SWITCH LEG 'ZZ', IN STORAGE #E1016B; FIXTURE SHALL ALSO BE CONTROLLED VIA LIGHTING CONTACTOR #LC4B FOR DUSK-TO-DAWN CONTROL. CONNECT TO CIRCUIT SHOWN USING 2#10+G. IN 3/4"C.

265675 FIXTURE SHALL BE MANUALLY SWITCHED FROM LOCAL TOGGLE LIGHT SWITCH, SWITCH LEG 'YY', IN STORAGE #E1016B; FIXTURE SHALL ALSO BE CONTROLLED VIA LIGHTING CONTACTOR #LC4C FOR DUSK-TO-DAWN CONTROL. CONNECT TO CIRCUIT SHOWN USING 2#10+G. IN 3/4"C.

265676 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #6 ON SHEET E-807. CONTROL VIA CONTACTOR #LC4D.

265685 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #3 ON SHEET E-807. CONTROL VIA CONTACTOR #LC3B.

265703 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #1 ON SHEET E-807. CONTROL VIA CONTACTOR #LC1C.

265711 MUFFIN MONSTER MANHOLE WITH CONTROL PANEL, 5HP, 480V, 3-PHASE. REFER TO SPECIFICATIONS AND CIVIL PLANS FOR DETAILED REQUIREMENTS. CONNECT CONTROL PANEL TO CIRCUIT E4H(32,34,36) USING 3#10+G. IN 3/4"C. PROVIDE CONNECTION BETWEEN CONTROL AND MUFFIN MONSTER PER MANUFACTURER'S RECOMMENDATION. COORDINATE EXACT LOCATION OF MUFFIN MONSTER AND CONTROL PANEL BEFORE ROUGH-IN.

265712 MUFFIN MONSTER DISCONNECT, HEAVY DUTY 600VAC, 30A, 3-POLE NON-FUSED DISCONECNT SWITCH IN NEMA 3R ENCLOSURE. DISCONNECT TO BE LOCATED ADJACENT TO MUFFIN MONSTER CONTROL PANEL, PROVIDE UNI-STRUT SUPPORTS AS NEEDED. MOUNT INDEPENENT OF COONTROL PANEL WITH TOP AT +6'-0" AFG. VERIFY EXACT LOCATION OF CONTROL PANEL BEFORE ROUGH-IN. CONNECT TO CIRCUIT AS SHOWN USING 3#10+G. IN 3/4"C.

265713 5#10, 2#10G., 1"C. FOR GRINDER AND RECEPTACLE CIRCUITRY.

265717 FURNISH AND INSTALL (1) 20A, DUPLEX GFCI RECEPTACLE IN WEATHERPROOF ENLCOSURE. RECEPTACLE TO BE MOUNTED BELOW DISCONNECT, PROVIDE UNI-STRUT SUPPORTS AS NEEDED. CONNECT TO CIRCUIT SHOWN USING 2#10+#10G. IN 1"C., REFER TO KEYNOTE #265713 THIS SHEET.

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

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ELECTRICAL SITE PLAN (SOUTH)

DRAWING NUMBER
E-102
ELECTRICAL

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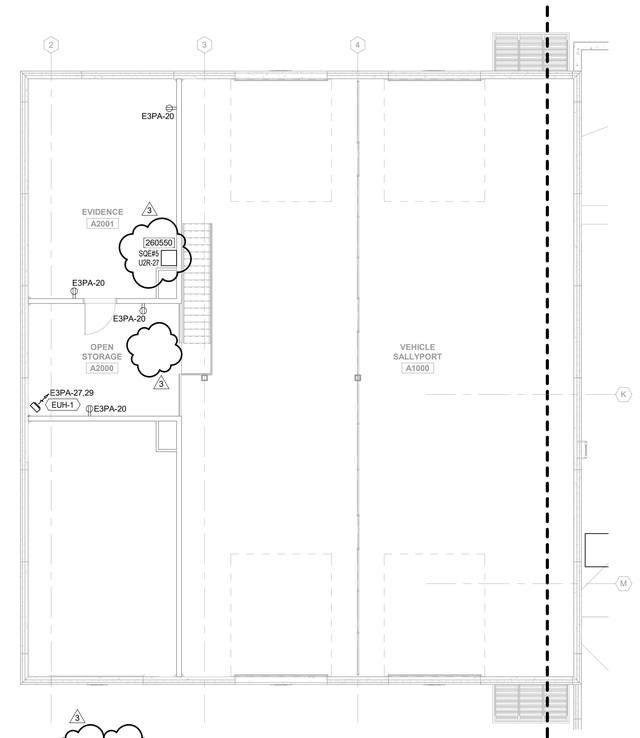
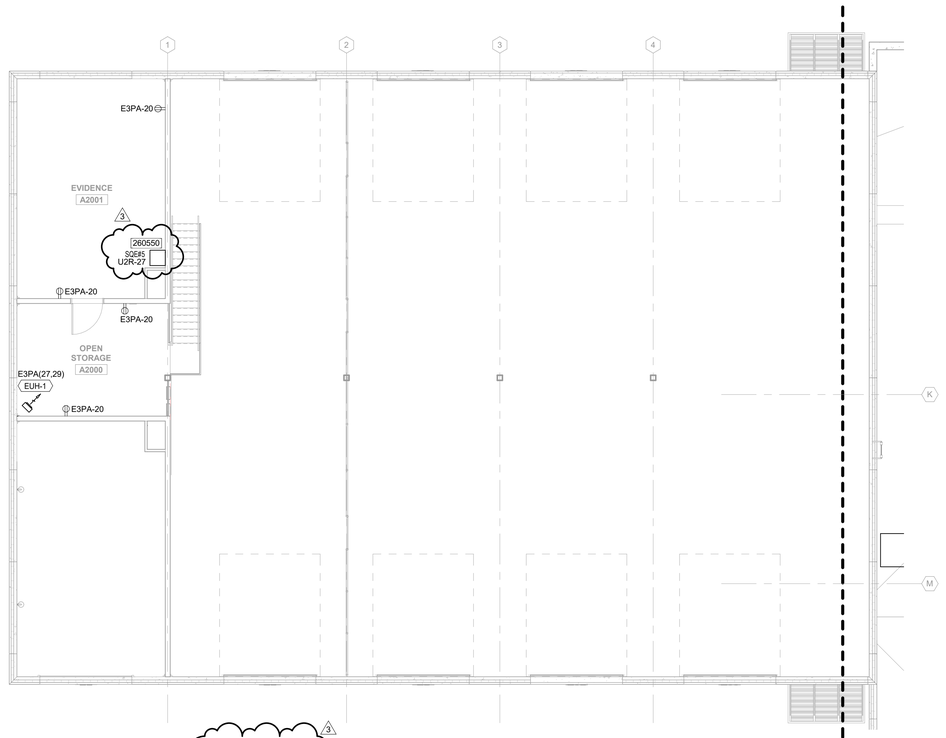


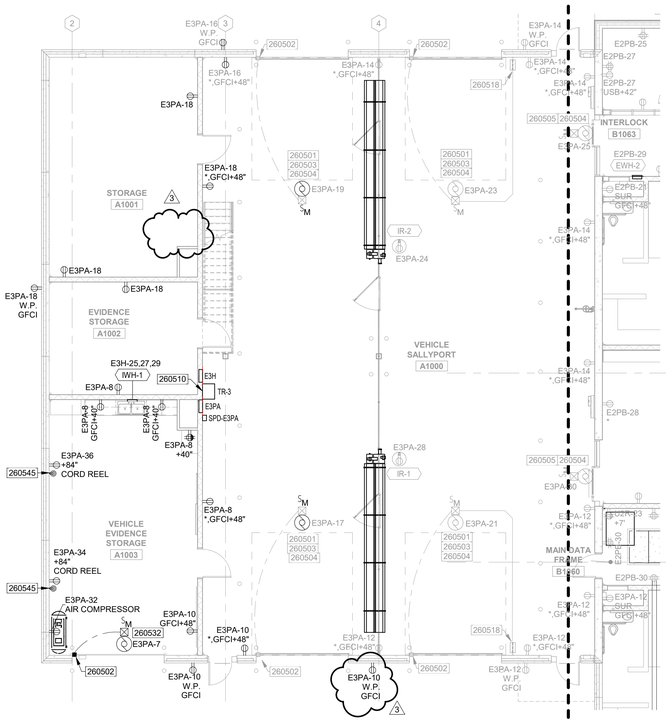
4 **MEZZANINE FLOOR POWER - AREA 'A' ALTERNATE**
E-201-A SCALE: 1/8" = 1'-0"

NORTH



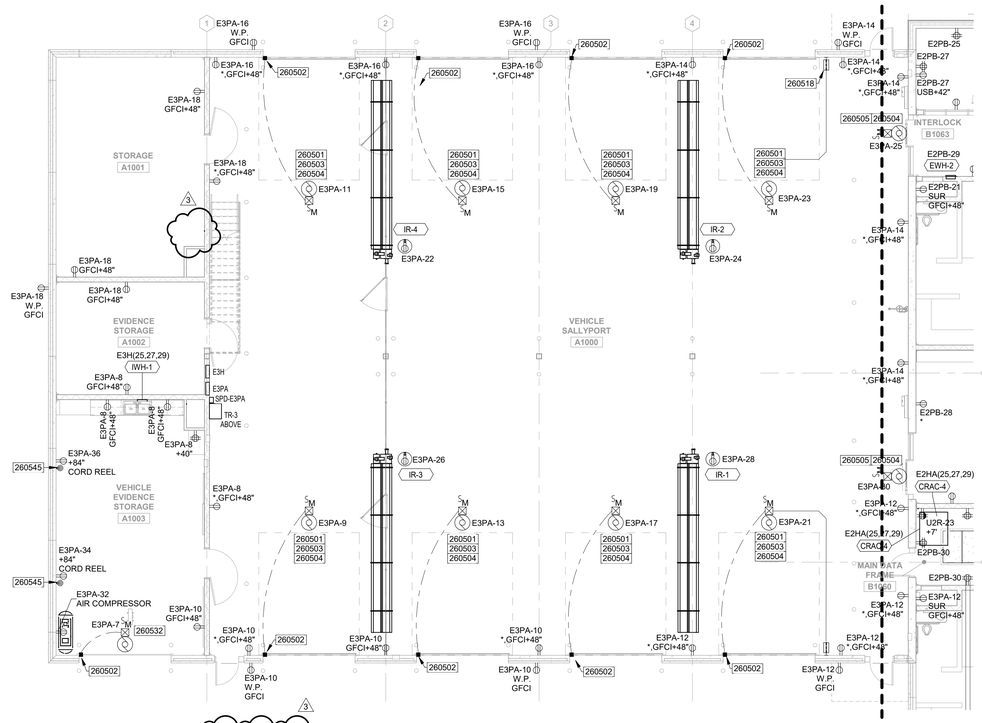
2 **MEZZANINE POWER PLAN - AREA 'A' BASE BID**
E-201-A SCALE: 1/8" = 1'-0"

NORTH



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

NORTH



1 **FIRST FLOOR POWER - AREA 'A' BASE BID**
E-201-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 "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##

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 PUSHBUTTON 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.

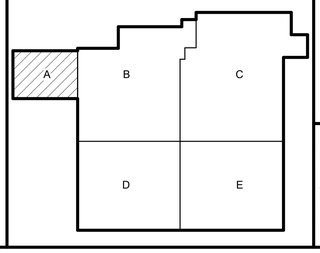
260518 KEYED OVERHEAD DOOR OPEN-CLOSE-STOP PUSHBUTTON CONTROL STATIONS FURNISHED BY OVERHEAD DOOR VENDOR. MOUNT TOP OF CONTROL STATION AT +48" AFF. COORDINATE EXACT LOCATIONS WITH OWNER PRIOR TO CONSTRUCTION. WIRE PER MANUFACTURER'S RECOMMENDATION.

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 +72" AFF. COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.

3 260550 WALL MOUNTED SECURITY RACK, REFER TO SE DRAWINGS FOR MORE INFORMATION. CONNECT TO CIRCUIT SHOWN USING 2#10+#10G. IN 3/4"C.

KEY PLAN



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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK ... REGISTERED PROFESSIONAL ENGINEER ... STATE OF INDIANA ... PE0018675

REVISION	DATE
NO. 3 Addendum #03	09/26/19

DRAWN: RDW | CHK'D: MLH
DESIGNED: RDW
APPR'VD: 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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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 070200 "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.
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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-803, DETAIL #7.

260510 EQUIPMENT TO BE MOUNTED ON CONCRETE PAD. REFER TO CONSTRUCTION DRAWING S-530, DETAILS #6 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. FROM BOX OVER AND UP NEAREST CHASE/WALL FOR POWER. PROVIDE A MAXIMUM OF (3) RECEPTACLES PER CIRCUIT.

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 #270510 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.

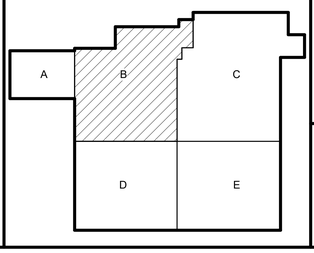
260543 AUTOMATIC DOOR OPENER. PUSHBUTTONS BY MANUFACTURER, WIRE PER MANUFACTURER'S RECOMMENDATION. 120V. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

260544 ELECTRIC DOOR. VERIFY WITH MANUFACTURER ALL FINAL CONNECTIONS.

260548 COMMUNICATIONS DATA CABINET, REFER TO SPECIFICATIONS. CONNECT TO CIRCUIT INDICATED USING 2#12+G. IN 3/4"C.

260551 WALL MOUNTED SECURITY CABINET/RACK, REFER TO SE DRAWINGS FOR MORE INFORMATION. CONNECT TO CIRCUIT SHOWN USING 2#12+G. IN 3/4"C.

KEY PLAN



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

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

MARVIN J. HITCHCOCK REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA PE20018675

NO.	REVISION	DATE
1	Addendum #01	09/12/19
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DRAWN: RDW | CHK'D: MJH
DESIGNED: RDW
APPR'VD: MJH
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

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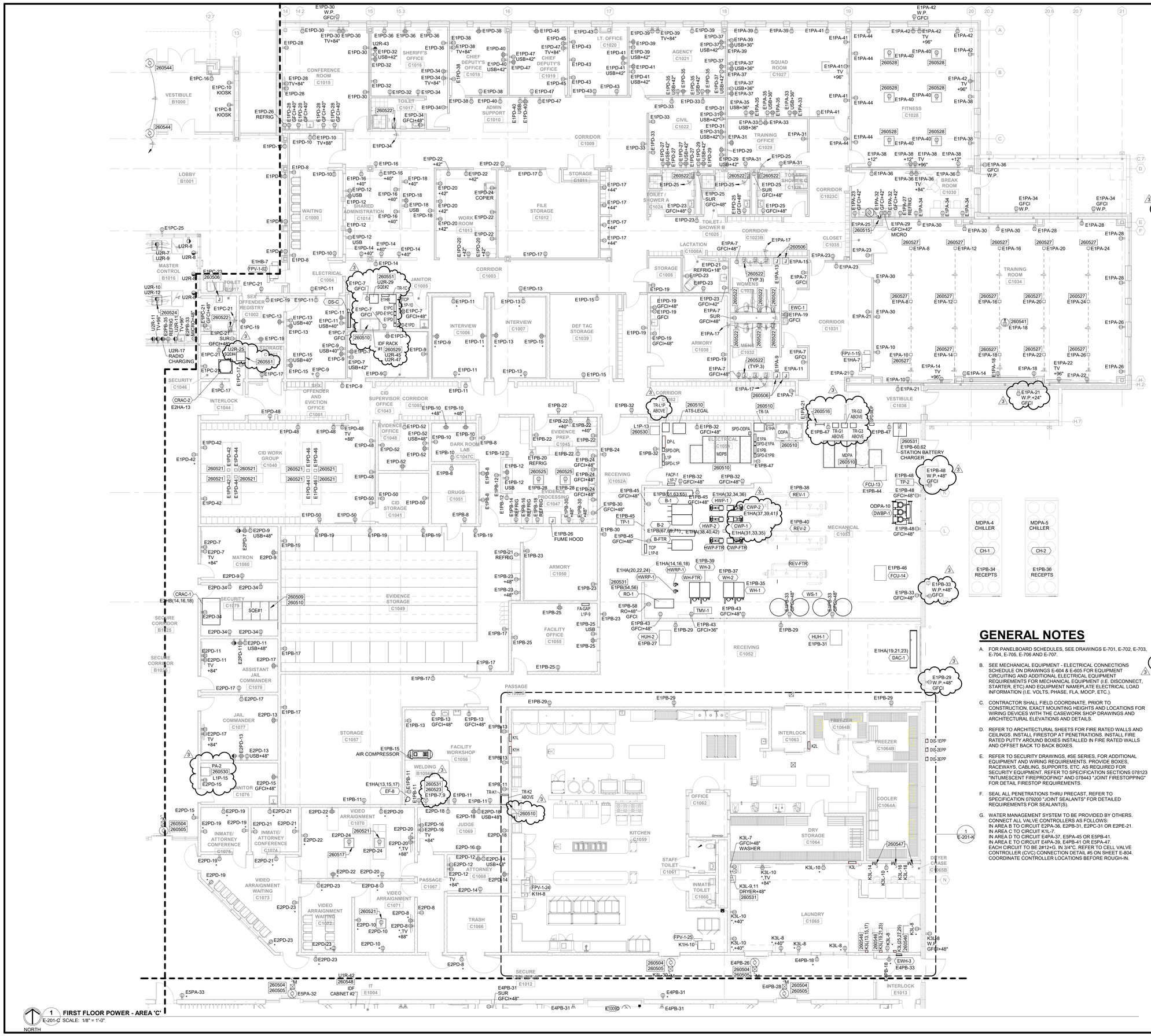
1 FIRST FLOOR POWER - AREA 'C'
E-201-C SCALE: 1/8" = 1'-0"
NORTH
CONFERENCE ROOM C1015
VESTIBULE B1000
LOBBY B1001
WAITING C1000
SHARED ADMINISTRATION C1014
SHERIFF'S OFFICE C1016
CHIEF DEPUTY'S OFFICE C1018
CHIEF DEPUTY'S OFFICE C1019
I.T. OFFICE C1020
AGENCY C1021
SQUAD ROOM C1027
TOILET C1017
ADMIN SUPPORT C1010
CIVIL C1022
TRAINING OFFICE C1029
FITNESS C1028
BREAK ROOM C1030
CORRIDOR C1009
STORAGE C1011
FILE STORAGE C1012
WORK ROOM C1013
COPIER
TOILET / SHOWER A C1024
TOILET / SHOWER B C1025
TOILET / SHOWER C C1026
CORRIDOR C1023C
CLOSET C1035
CORRIDOR C1023B
LACTATION C1008A
WOMENS C1033
MENS C1032
TRAINING ROOM C1034
STORAGE C1008
ELECTRICAL C1004
JANITOR C1005
CORRIDOR C1003
INTERVIEW C1006
INTERVIEW C1007
DEF TAC STORAGE C1039
ARMORY C1038
CORRIDOR C1031
VESTIBULE C1036
MASTER CONTROL B1016
TOILET B1017
SEX OFFENDER REGISTRY C1002
STORAGE C1018
SECURITY C1046
INTERLOCK C1044
SEX OFFENDER AND EVICTION OFFICE C1001
CID SUPERVISOR OFFICE C1043
CORRIDOR C1085
CORRIDOR C1082
CID WORK GROUP C1040
EVIDENCE OFFICE C1048
DARK ROOM LAB C1047C
EVIDENCE PREP. C1045
RECEIVING C1052A
ELECTRICAL C1062
MECHANICAL C1053
CID STORAGE C1041
DRUGS C1051
EVIDENCE PROCESSING C1047
FUME HOOD
ARMORY C1050
EVIDENCE STORAGE C1049
FACILITY OFFICE C1055
RECEIVING C1052
MATRON C1080
SECURITY C1079
SECURE CORRIDOR B1025
ASSISTANT JAIL COMMANDER C1078
JAIL COMMANDER C1077
STORAGE C1057
FACILITY WORKSHOP C1056
WELDING B1058
JANITOR C1076
INMATE/ ATTORNEY CONFERENCE C1075
INMATE/ ATTORNEY CONFERENCE C1074
VIDEO ARRAIGNMENT C1070
VIDEO ARRAIGNMENT WAITING C1073
VIDEO ARRAIGNMENT C1071
VIDEO ARRAIGNMENT WAITING C1072
PASSAGE C1067
JUDGE C1069
ATTORNEY C1068
TRASH C1066
PASSAGE C1025
SECURE E1012
IT E1004
IDF CABINET #2
KITCHEN C1059
OFFICE C1062
COOLER C1064A
FREEZER C1064B
INTERLOCK C1063
DRY STORAGE C1064
STAFF TOILET C1061
INMATE TOILET C1060
LAUNDRY C1065
DRYER CASE C1065B
INTERLOCK E1013
MDPA-4 CHILLER
MDPA-5 CHILLER
E1PB-34 RECEPTS
E1PB-36 RECEPTS
CH-1
CH-2
E1PD-30 W.P. GFCI
E1PA-42 W.P. GFCI
E1PA-36 GFCI W.P.
E1PA-34 GFCI W.P.
E1PA-34 GFCI W.P.
E1PB-48 W.P.+48" GFCI
E1PB-33 W.P.+48" GFCI
E1PB-29 W.P.+48" GFCI
E1PA-21 W.P.+24" GFCI
E1PB-60,62 STATION BATTERY CHARGER
E1PB-26 REFRIG
E1PB-21 REFRIG
E1PB-20 REFRIG
E1PB-16 REFRIG
E1PB-14 REFRIG
E1PB-18 REFRIG
E1PB-58 RO+48" GFCI
E1PB-43 GFCI+48"
E1PB-43 GFCI+36"
E1PB-45 GFCI+48"
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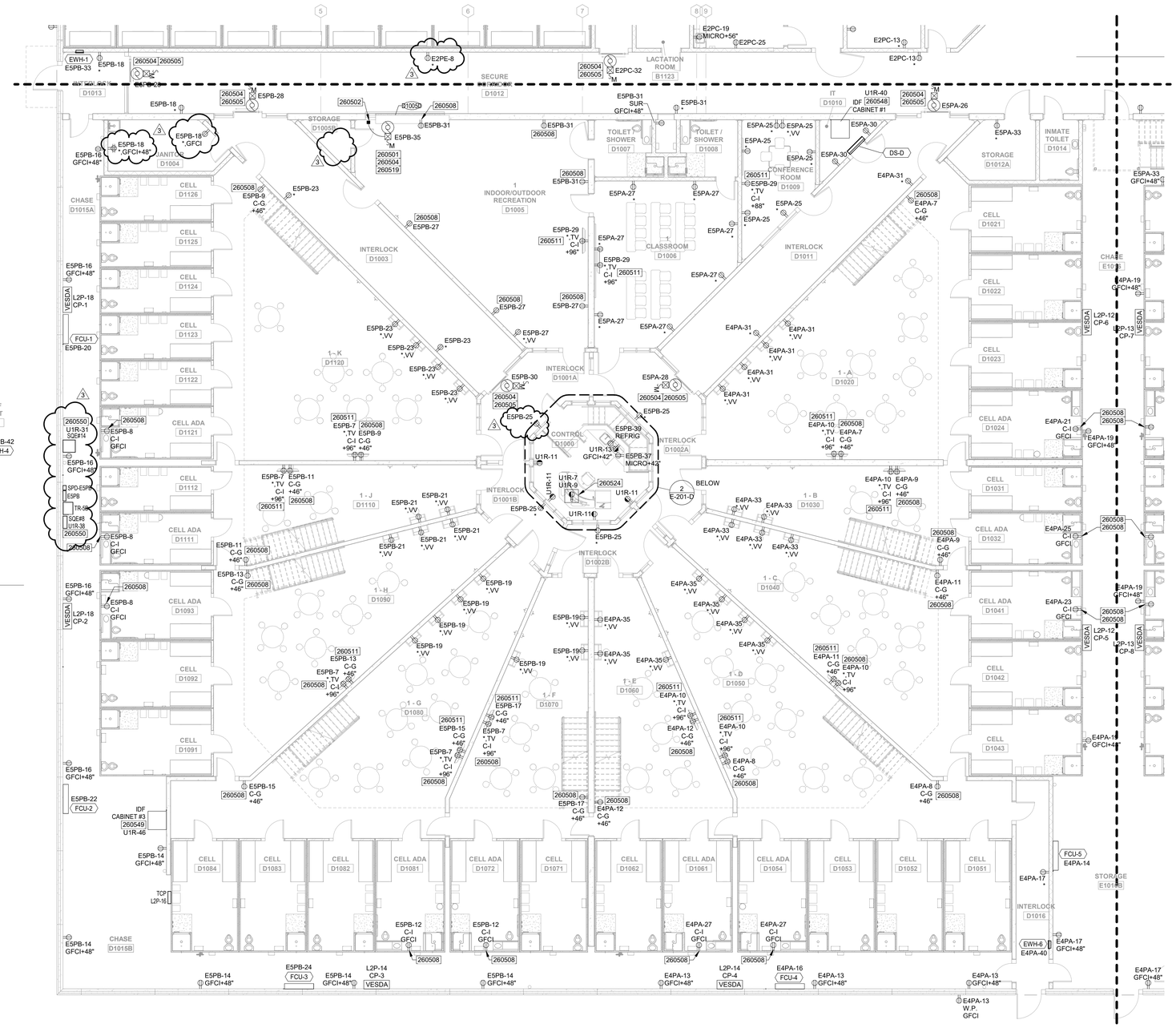


2 LOWER LEVEL POWER - AREA 'D'
E-201-D SCALE: 1/8" = 1'-0"
NORTH

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.

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##

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 PUSHBUTTON 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-803, DETAIL #7.

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

260518 CONTROL SWITCH(S) TO BE LOCATED IN CONTROL #D1009. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

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

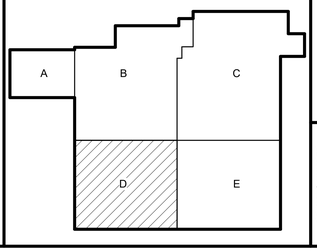
260524 FURNISH AND INSTALL 8-GANG FLOOR BOX, LIKE LEGRAND/WIREMOLD RFB8SS OR APPROVED EQUAL WITH TWO (2) #RFB-BM 4-GANG MOUNTING BRACKETS, ONE (1) #EFB610BTXX FLUSH STYLE COVER LID WITH FINISH PER ARCHITECT. BOX TO HAVE SIX (6) DEVICE PLATES WITH SIX (6) 20A DUPLEX RECEPTACLES, ONE (1) #EFB-B BLANK DEVICE 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.

260548 COMMUNICATIONS DATA CABINET. REFER TO SPECIFICATIONS. CONNECT TO CIRCUIT INDICATED USING 2#12+G. IN 3/4"C.

260549 COMMUNICATIONS DATA CABINET. REFER TO SPECIFICATIONS. CONNECT TO CIRCUIT INDICATED USING 2#10+#10G. IN 3/4"C.

260550 WALL MOUNTED SECURITY RACK. REFER TO SE DRAWINGS FOR MORE INFORMATION. CONNECT TO CIRCUIT SHOWN USING 2#10+#10G. IN 3/4"C.

KEY PLAN



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

MARVIN L. HITCHCOCK ENGINEER STATE OF INDIANA PE001987S PROFESSIONAL ENGINEER

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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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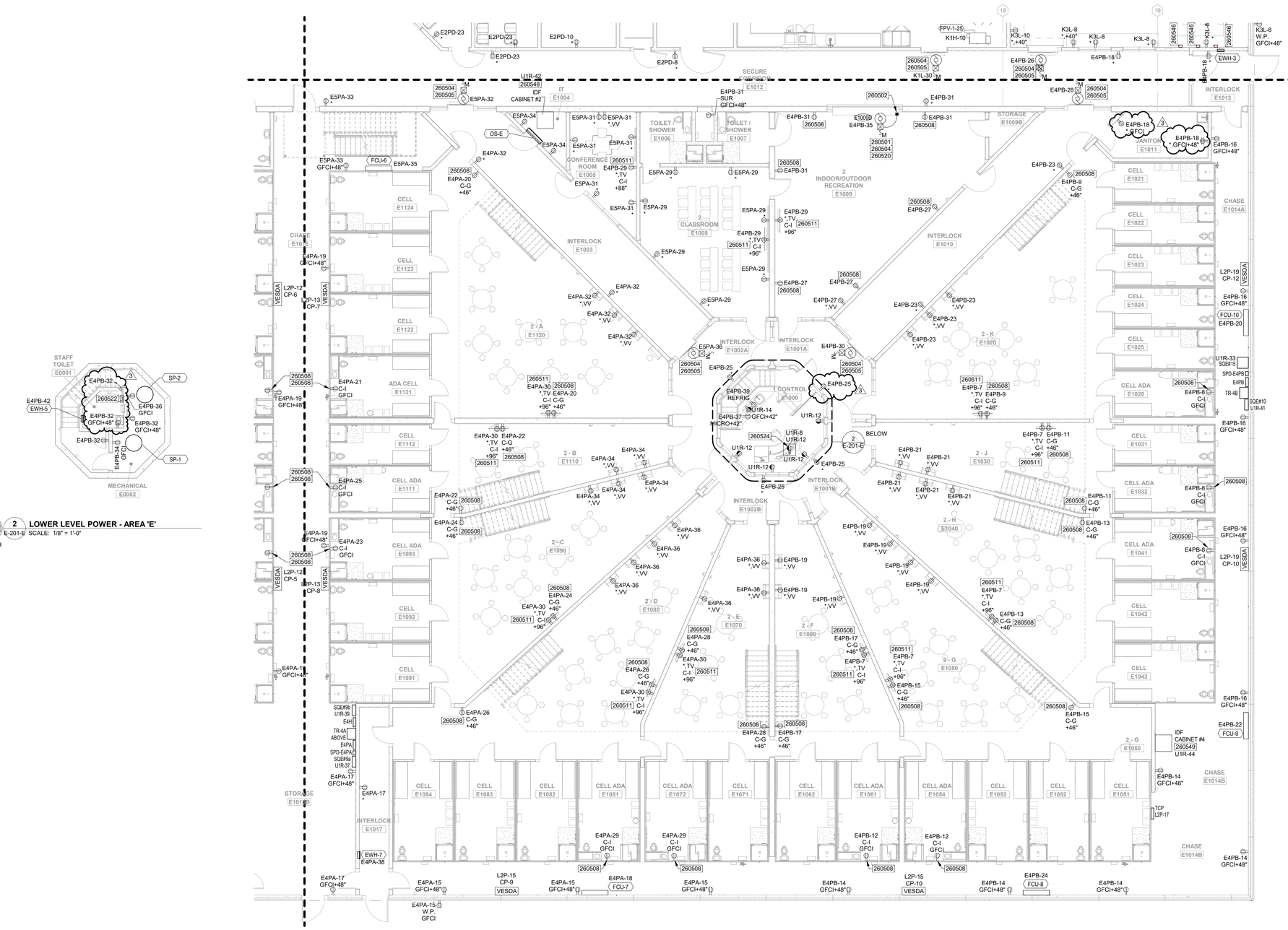


2 LOWER LEVEL POWER - AREA 'E'
E-201-E SCALE: 1/8" = 1'-0"
NORTH

1 FIRST FLOOR POWER - AREA 'E'
E-201-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##

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 PUSHBUTTON 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-803, DETAIL #7.

260511 DEVICE TO BE 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 PRIOR TO ROUGH-IN.

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

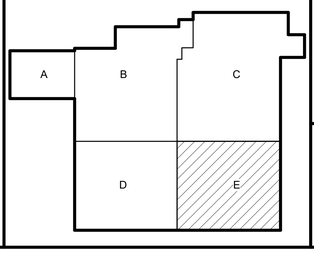
260524 FURNISH AND INSTALL 8-GANG LOW VOLTAGE BOX. USE LEGRAND/WIREMOLD #EFBBS OR APPROVED EQUAL WITH TWO (2) #EFB-8M 4-GANG MOUNTING BRACKETS, ONE (1) #EFB610BTXX FLUSH STYLE COVER LID WITH FINISH PER ARCHITECT. BOX TO HAVE SIX (6) DEVICE PLATES WITH SIX (6) 20A DUPLEX RECEPTACLES, ONE (1) #EFB-B BLANK 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.

260548 COMMUNICATIONS DATA CABINET, REFER TO SPECIFICATIONS. CONNECT TO CIRCUIT INDICATED USING 2#12+G. IN 3/4"C.

260549 COMMUNICATIONS DATA CABINET, REFER TO SPECIFICATIONS. CONNECT TO CIRCUIT INDICATED USING 2#10+#10G. IN 3/4"C.

KEY PLAN



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

MARVIN L. HITCHCOCK
STATE OF INDIANA
PE20116075
REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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 E

DRAWING NUMBER E-201-E ELECTRICAL

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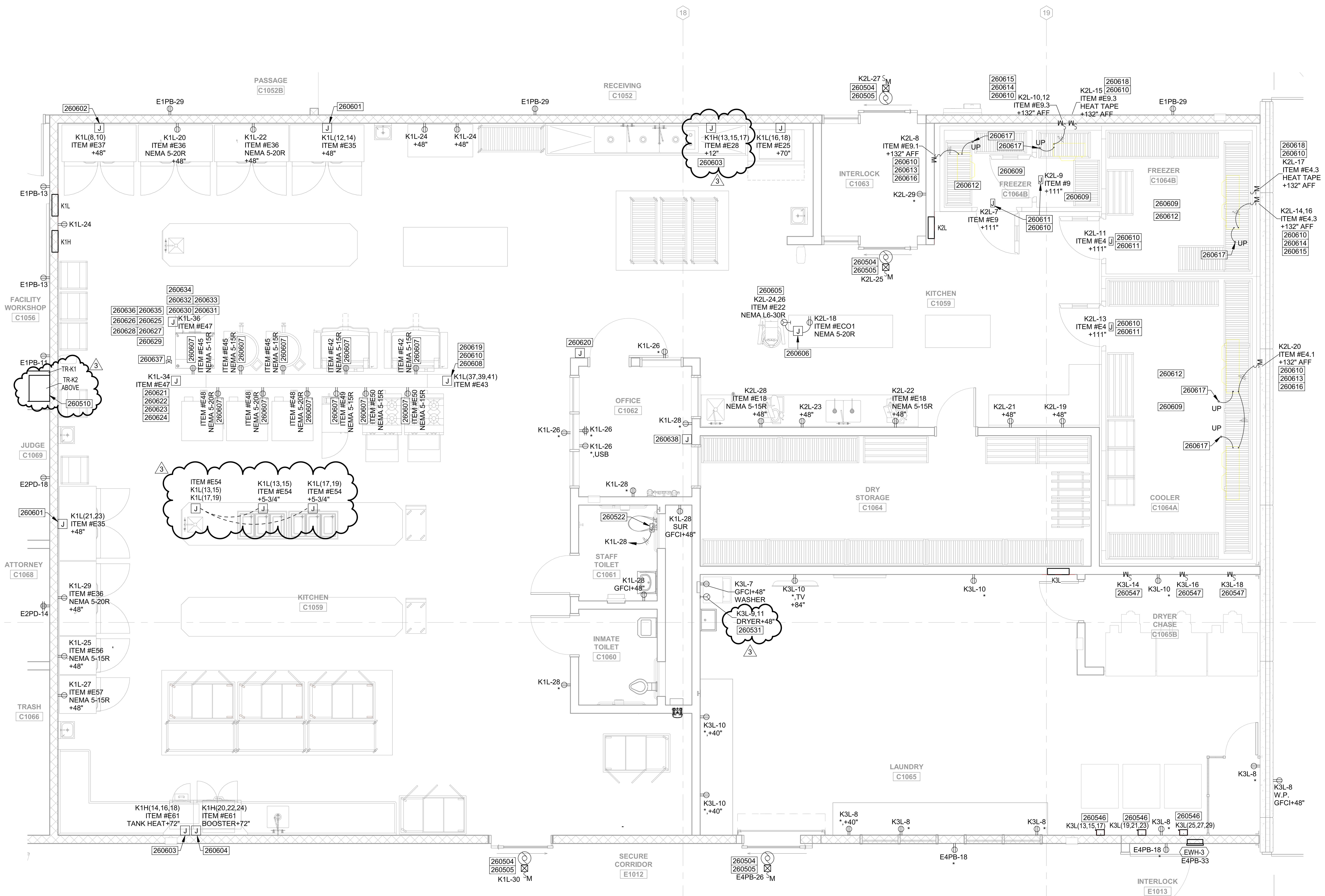

1 **ENLARGED KITCHEN PLAN - ELECTRICAL**
E-201-K SCALE: 1/4" = 1'-0"
NORTH

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' 'K2L' OR 'K3L' 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##

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.

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

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

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 125VAC, 20A, 1-POLE MANUAL MOTOR STARTER WITH TOGGLE DISCONNECT IN NEMA 1 ENCLOSURE. FURNISH WITH 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.

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. REFER TO DRAWING FS110 FOR ADDITIONAL INFORMATION.

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

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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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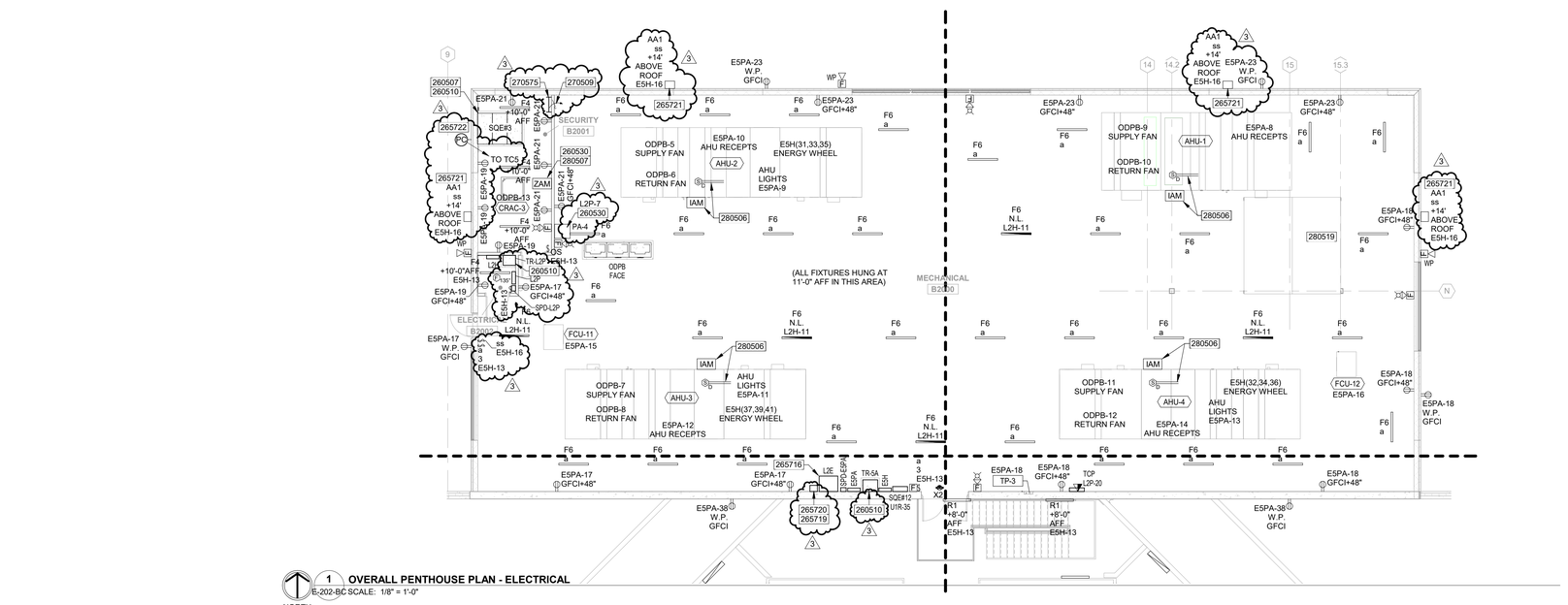


1 OVERALL PENTHOUSE PLAN - ELECTRICAL
E-202-BC SCALE: 1/8" = 1'-0"

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 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.

265716 FURNISH AND INSTALL CENTRAL UNINTERRUPTIBLE EMERGENCY LIGHTING INVERTER, SINGLE PHASE, 277V INPUT/OUTPUT WITH 4 OUTPUT BREAKERS, 90-MINUTE RATED BATTERY BACKUP CAPACITY AT RATED LOAD, UL 924 LISTED, 3KW MINIUM FOR L1E, 1KW MINIMUM FOR L2E. CONTROLLED POWER MODEL 91U OR APPROVED EQUAL BY MYERS EQUAL-LITE/ EATON.

265719 LIGHTING CONTACTOR, LCSA, REFER TO EXTERIOR LIGHTING WIRING DIAGRAM, SHEET E-807, DETAIL #7.

265720 NEW TIME CLOCK #TC5 FOR CONTROL OF EXTERIOR LIGHTING, REFER TO EXTERIOR LIGHTING WIRING DIAGRAM, SHEET E-807, DETAIL #7. CONNECT TO CIRCUIT E5PA-40 USING 2#12+G. IN 3/4"C.

265721 LIGHTING FIXTURE SHALL BE MANUALLY SWITCHED FROM LOCAL TOGGLE SWITCH 'ss'. FIXTURES SHALL ALSO BE CONTROLLED VIA LIGHTING CONTACTOR FOR DUSK-TO-DAWN CONTROL. PROVIDE LABEL ON TOGGLE SWITCH FACEPLATE INDENTIFYING EXTERIOR LIGHTING ALSO INTERLOCKED/CONTROLLED VIA LIGHTING CONTACTOR.

265722 WALL MOUNT PHOTOCELL 14'-0" ABOVE ROOF (FIELD COORDINATE EXACT MOUNTING HEIGHT TO MATCH HEIGHT OF ADJACENT LIGHTING FIXTURES AS INDICATED ON ARCHITECTURAL ELEVATIONS/ELECTRICAL LIGHTING PLANS). FOR PHOTOCELL WIRING DETAILS, REFER TO EXTERIIOR LIGHTING WIRING DIAGRAMS ON SHEET E-807.

270509 #1/0 AWG GREEN INSULATED GROUND CABLE. BOND TO MAIN GROUND BUS #1 (IN MECHANICAL #C1053). REFER TO DETAIL #4, DRAWING E-803.

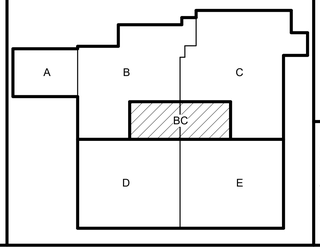
270575 GROUND BUS BAR NO.4. MOUNT AT +8'-0" AFF. REFER TO TELE-DATA EQUIPMENT GROUND BUS DETAIL #3, SHEET E-803. BOND TO MAIN GROUND BUS BAR NO.1 (IN location) USE #1/0AWG COPPER GREEN INSULATED CABLE.

280506 ADDRESSABLE DUCT DETECTOR FURNISHED AND INSTALLED BY HVAC EQUIPMENT SUPPLIER. PROVIDE AND INSTALL ONE (1) DAM 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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MARVIN L. REED HITCHCOCK 11 STATE OF INDIANA PROFESSIONAL ENGINEER PE20018675

NO.	REVISION	DATE
2.	Addendum #02	09/19/19
3.	Addendum #03	09/26/19

DRAWN: ROW CHK'D: MLH
DESIGNED: ROW
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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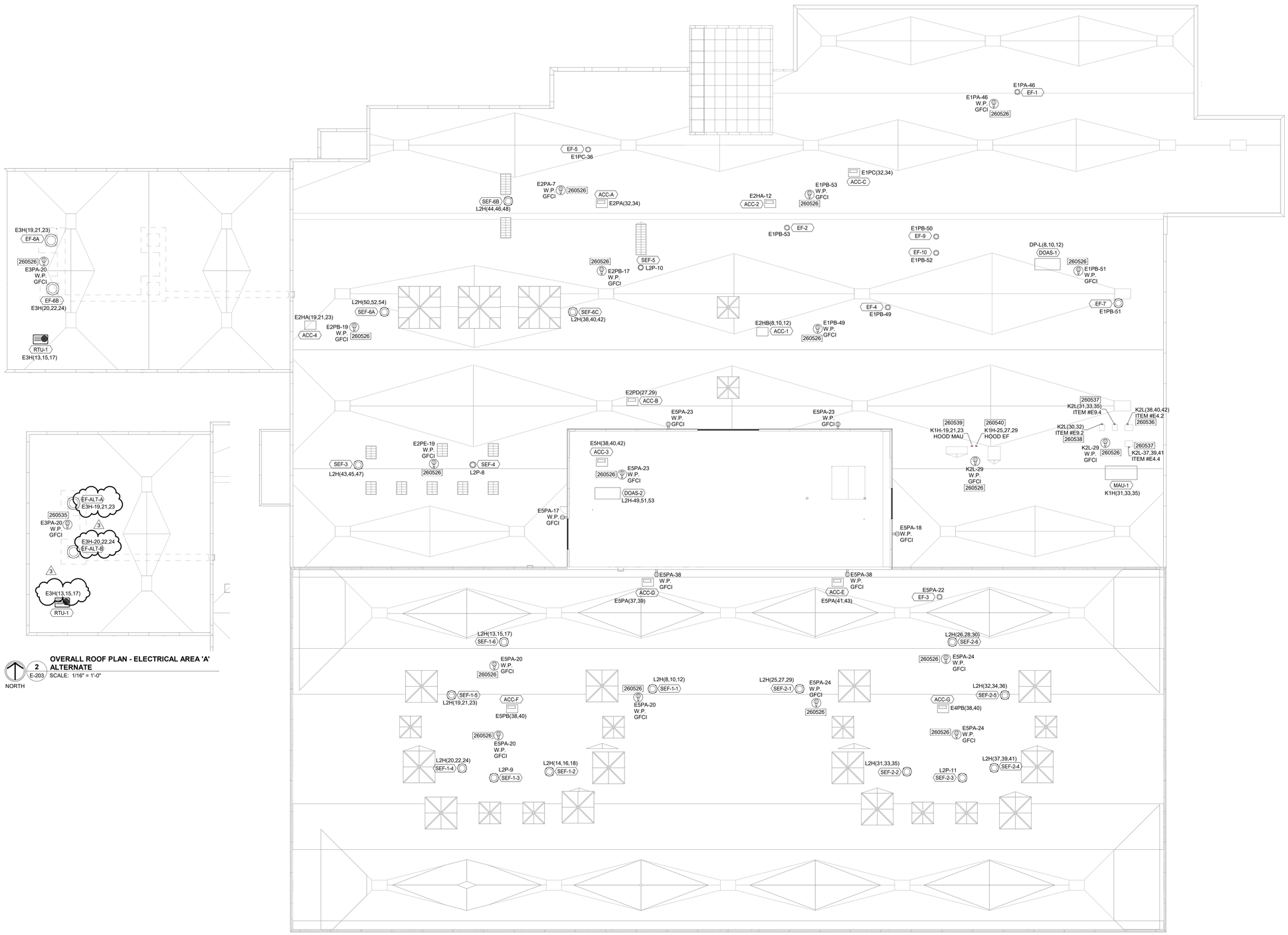


OVERALL ROOF PLAN - ELECTRICAL AREA 'A' ALTERNATE
2 / E-203 SCALE: 1/16" = 1'-0"
NORTH

OVERALL ROOF PLAN - ELECTRICAL
1 / E-203 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

260##

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 GALVANIZED 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.

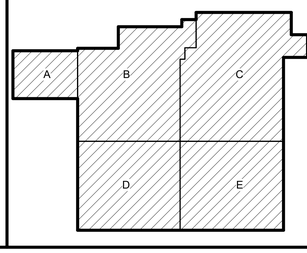
260537 WALK-IN FREEZER COMPRESSOR DISCONNECT, HEAVY DUTY 600VAC, 30A, 3-POLE NON-FUSED DISCONENCT SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE. DISCONNECT TO BE LOCATED ADJACENT TO COMPRESSOR, PROVIDE UNI-STRUT SUPPORTS AS NEEDED. MOUNT INDEPENENT OF COMPRESSOR. VERIFY EXACT LOCATION OF COMPRESSOR BEFORE 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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DLZ INDIANA, LLC

MARVIN L. REED 10TH STREET HITCHCOCK PE60018675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE
3	Addendum #03	09/26/19

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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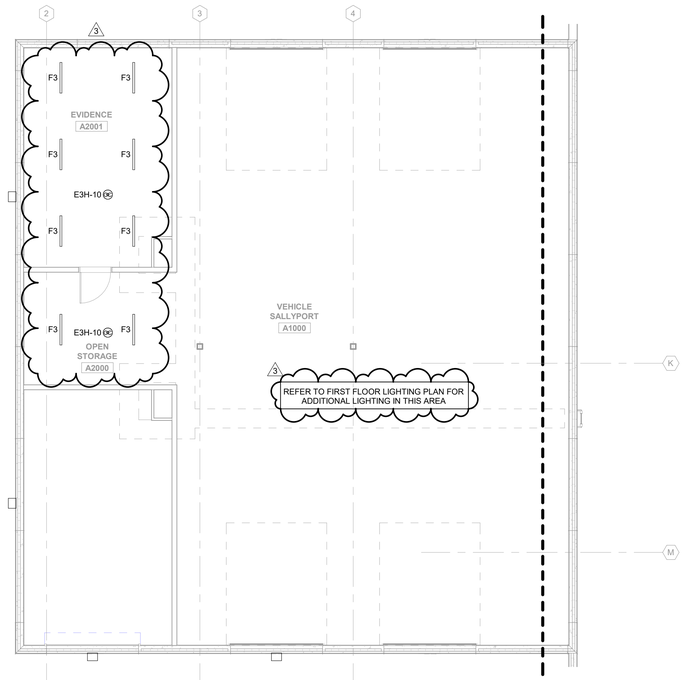
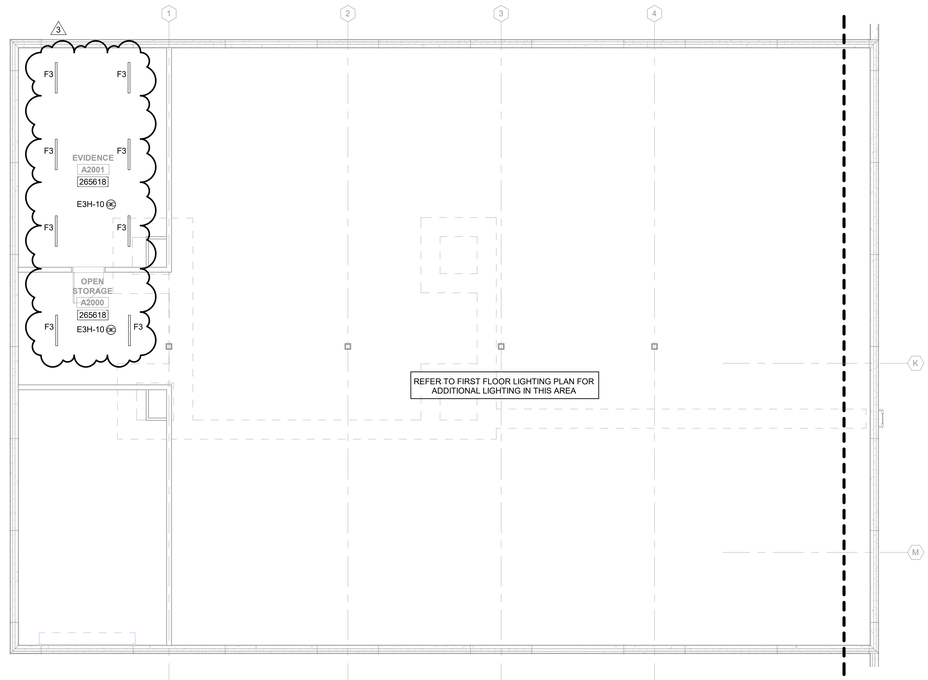
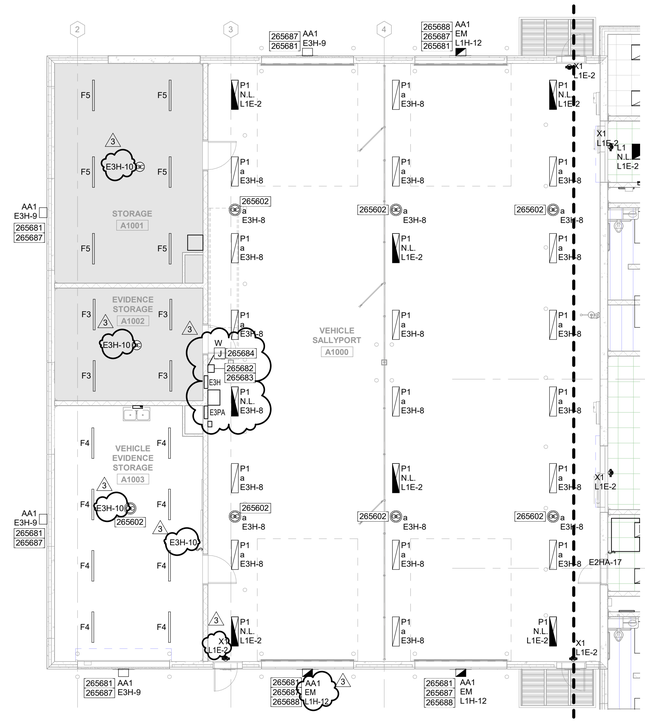


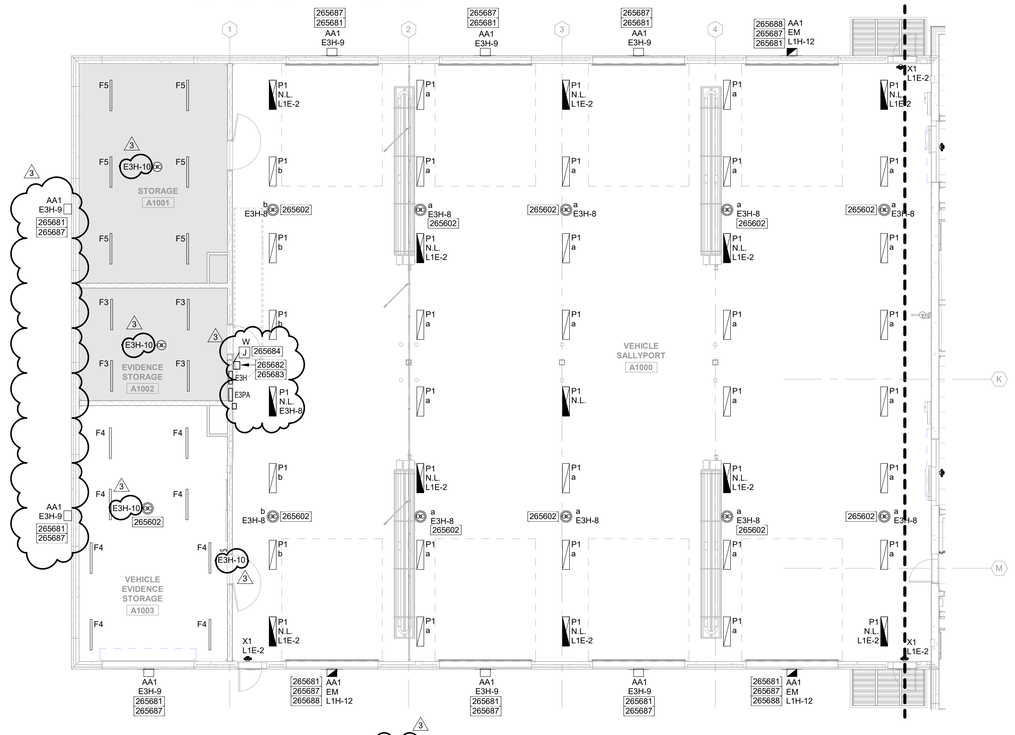


4 **MEZZANINE LIGHTING - AREA 'A' ALTERNATE**
E-301-A SCALE: 1/8" = 1'-0"



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

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



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

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/E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR. 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 DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DRAWING E-807.

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 IN SPACE.

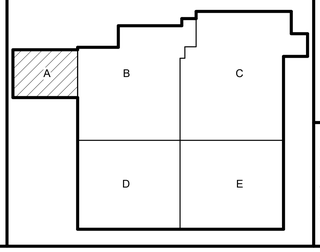
M. SEAL ALL PENETRATIONS THROUGH PRECAST, REFER TO SPECIFICATION 078200 FOR TYPE.

N. REFER TO DRAWING E-302-E FOR LIGHTING CONTROL NOTES.

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 FIXTURES IN ROOM.
265618 ALIGN FIXTURES IN ROOM WITH BOTTOM OF CIELING JOIST.
265681 CONNECT TO CIRCUIT SHOWN USING 2#10+#10G. IN 3/4"C.
265682 LIGHTING CONTACTORS, LC3A AND LC3B, REFER TO EXTERIOR LIGHTING WIRING DIAGRAM, SHEET E-807, DETAIL #3.
265683 NEW TIME CLOCK #TC3 FOR CONTROL OF EXTERIOR LIGHTING, REFER TO EXTERIOR LIGHTING WIRING DIAGRAM, SHEET E-807, DETAIL #3. CONNECT TO CIRCUIT E3PA-31 USING 2#12+G. IN 3/4"C.
265684 FURNISH AND INSTALL (1) EMERGENCY POWER CONTROL (ECP) MODULE #GTD3, LIKE LVS INC #ECP-C-1 OR APPROVED EQUAL IN WALL FOR CONTROL OF EXTERIOR EMERGENCY LIGHT. NON-EMERGENCY CIRCUIT SHALL BE CIRCUIT E4H-33. REFERENCE DETAIL #7 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS.
265687 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #3 ON SHEET E-807. CONTROL VIA CONTACTOR #LC3A.
265688 FIXTURE TO BE CONTROLLED BY EMERGENCY POWER CONTROL MODULE LOCATED IN VEHICLE SALLYPORT #A1000.

KEY PLAN



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

MARVIN L. HITCHCOCK REGISTERED PROFESSIONAL ENGINEER PE001 9675 STATE OF INDIANA

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

DRAWN: MHK,RD/**DSGNR/CD:** MLH
DESIGNED: MHK,RDV
APPRVD: 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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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/E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR. 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 DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DRAWING E-807.

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 IN SPACE.

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

N. REFER TO DRAWING E-302-E FOR LIGHTING CONTROL NOTES.

LIGHTING KEYNOTES 265###

265601 (TYPICAL) ALL CELLS, TOILETS & SHOWERS WILL HAVE LIGHTING FIXTURE(S) SUPPLIED BY CELL 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 FIXTURES IN ROOM.

265604 LIGHTING IN ROOM/AREA TO BE CONTROLLED BY UTILITY CONTROL PANEL. REFER TO LIGHTING CONTROLS NOTE ON E-302-E 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 #7 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS. MODULE TO CONTROL FIXTURES IN AREA U.O.N. WITH DOTTED LINE.

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 STEM/PENDANT MOUNT FIXTURE 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.

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. WALL MOUNT AT +12'-0" AFF.

265629 FIXTURE TO BE MOUNTED ON TOP OF CANOPY FOR ILLUMINATION OF SIGN ABOVE. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN

265673 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #6 ON SHEET E-807. CONTROL VIA CONTACTOR #LC4A.

265680 FIXTURE TO BE CONTROLLED BY EMERGENCY POWER CONTROL MODULE LOCATED IN STORAGE #E1016B.

265681 CONNECT TO CIRCUIT SHOWN USING 2#10+#10G. IN 3/4"C.

265686 EXTERIOR TYPE 'CC1' LIGHTING FIXTURES SHALL BE MANUALLY SWITCHED FROM LOCAL EXTERIOR DIMMER SWITCH. DIMMER SWITCH SHALL BE COMPATIBLE WITH LED FIXTURE DRIVER. FIXTURES SHALL ALSO BE CONTROLLED VIA LIGHTING CONTACTOR FOR DUSK-TO-DAWN CONTROL. PROVIDE LABEL ON TOGGLE SWITCH FACEPLATE INDENTIFYING EXTERIOR LIGHTING ALSO INTERLOCKED/CONTROLLED VIA LIGHTING CONTACTOR.

265687 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #3 ON SHEET E-807. CONTROL VIA CONTACTOR #LC3A.

265689 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #2 ON SHEET E-807. CONTROL VIA CONTACTOR #LC2A.

265690 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #2 ON SHEET E-807. CONTROL VIA CONTACTOR #LC2B.

265693 LIGHTING CONTACTORS, LC2A, LC2B, LC2C AND LC2D, REFER TO EXTERIOR LIGHTING WIRING DIAGRAM, SHEET E-807, DETAIL #2.

265694 NEW TIME CLOCK #TC2 FOR CONTROL OF EXTERIOR LIGHTING. REFER TO EXTERIOR LIGHTING WIRING DIAGRAM, SHEET E-807, DETAIL #2. CONNECT TO CIRCUIT E2PA-35 USING 2#12+G. IN 3/4"C.

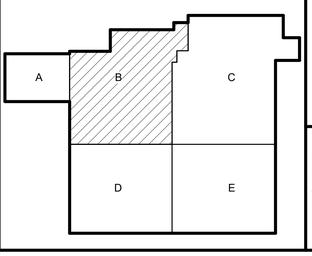
265714 FIXTURE TO BE CONTROLLED BY EMERGENCY POWER CONTROL MODULE LOCATED IN ELECTRICAL #B1024.

265715 FURNISH AND INSTALL (1) EMERGENCY POWER CONTROL (ECP) MODULE #DT22, LIKE LVS INC #EPC-1 OR APPROVED EQUAL IN WALL FOR CONTROL OF EXTERIOR EMERGENCY LIGHT. NON-EMERGENCY CIRCUIT SHALL BE CIRCUIT E2HA-18. REFERENCE DETAIL #7/E-802. FLUSH MOUNT AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS.

265716 FURNISH AND INSTALL CENTRAL UNINTERRUPTIBLE EMERGENCY LIGHTING INVERTER, SINGLE PHASE, 277V INPUT/OUTPUT WITH 4 OUTPUT BREAKERS, 90-MINUTE RATED BATTERY BACKUP CAPACITY AT RATED LOAD, UL 924 LISTED, 3KW MINIUM FOR L1E, 20KW MINIMUM FOR L2E, CONTROLLED POWER MODEL ELU OR APPROVED EQUAL BY MYERS, DUAL-LITE, EATON.

265718 FURNISH AND INSTALL MULLION MOUNT SWITCH, ROUTE WIRING THROUGH MULLION.

KEY PLAN



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

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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

MARVIN K. ROSS
HITCHCOCK
FIRST FEDERAL
PE001180TS
STATE OF
INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

DRAWN: MHK-RD/CHKD: MLH
DESIGNED: MHK-RD/W
APPR'VD: 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

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/E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR. 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 DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DRAWING E-807.

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 IN SPACE.

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

N. REFER TO DRAWING E-302-E FOR LIGHTING CONTROL NOTES.

LIGHTING KEYNOTES 26566##

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

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 #ECPC-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 #7 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS. MODULE TO CONTROL FIXTURES IN AREA U.O.N. WITH DOTTED LINE.

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.

265617 IP65 RATED OCCUPANCY SENSOR LIKE HUBBELL #WSP-LWO-SM-UNV WITH #WSPLW0L260LM LENS OR APPROVED EQUAL. OUTDOOR SENSOR TO BE LOW/SURFACE MOUNTED WITH 360 DEGREE COVERAGE, UNIVERSAL VOLTAGE IN WHITE FINISH.

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.

265629 FIXTURE TO BE MOUNTED ON TOP OF CANOPY FOR ILLUMINATION OF SIGN ABOVE. FIELD COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

265673 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #6 ON SHEET E-807. CONTROL VIA CONTACTOR #LC4A.

265689 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #2 ON SHEET E-807. CONTROL VIA CONTACTOR #LC2A.

265690 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #2 ON SHEET E-807. CONTROL VIA CONTACTOR #LC2B.

265697 LIGHTING CONTACTORS, LC1A, LC1B AND LC1C, REFER TO EXTERIOR LIGHTING WIRING DIAGRAM, SHEET E-807, DETAIL #1.

265698 NEW TIME CLOCK #TC1 FOR CONTROL OF EXTERIOR LIGHTING, REFER TO EXTRIOR LIGHTING WIRING DIAGRAM, SHEET E-807, DETAIL #1. CONNECT TO CIRCUIT E1PA-48 USING 2#12+G. IN 3/4"C.

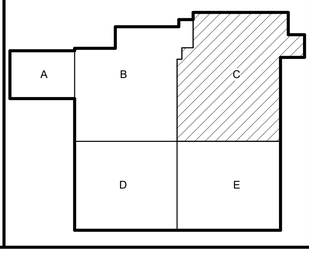
265699 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #1 ON SHEET E-807. CONTROL VIA CONTACTOR #LC1A.

265700 FIXTURE TO BE CONTROLLED BY EMERGENCY POWER CONTROL MODULE LOCATED IN MECHANICAL #C1053.

265701 FURNISH AND INSTALL (1) EMERGENCY POWER CONTROL (ECP) MODULE #GTD1, LIKE LVS INC #EPC-1 OR APPROVED EQUAL IN ROOM/AREA FOR CONTROL OF EXTERIOR EMERGENCY LIGHTS. NON-EMERGENCY CIRCUIT SHALL BE CIRCUIT E1HA-8. REFERENCE DETAIL #7 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS.

265714 FIXTURE TO BE CONTROLLED BY EMERGENCY POWER CONTROL MODULE LOCATED IN ELECTRICAL #B1024.

KEY PLAN



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DLZ INDIANA, LLC

MARK J. HITCHCOCK
NOTARIAL SEAL
PE20018675
STATE OF INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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 LIGHTING PLAN - AREA C

DRAWING NUMBER E-301-C
ELECTRICAL

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

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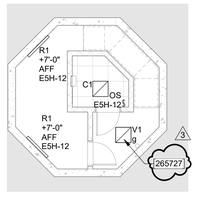
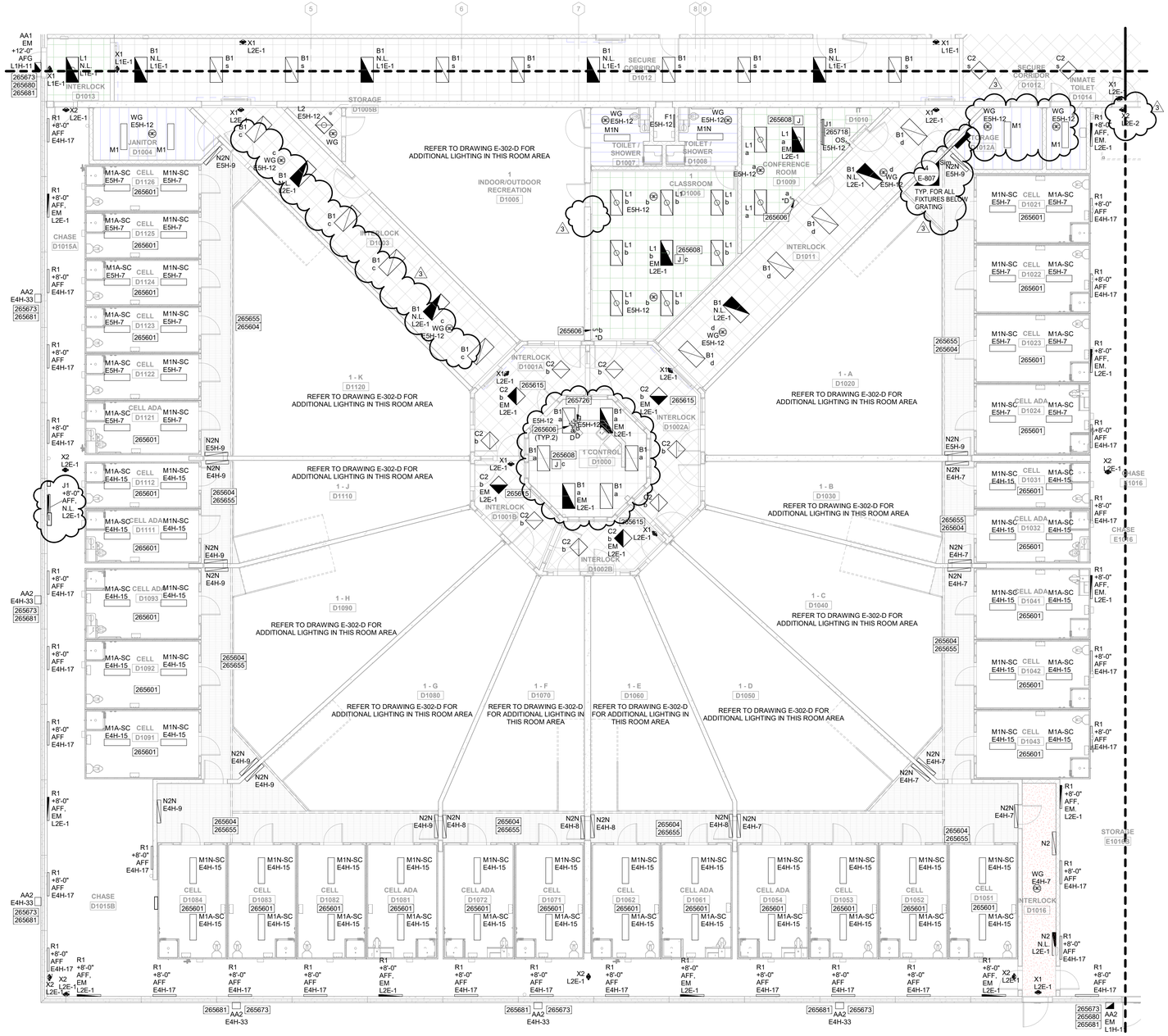


2 LOWER LEVEL LIGHTING - AREA 'D'
E-301-D SCALE: 1/8" = 1'-0"

NORTH



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

NORTH

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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/E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR. 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 DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DRAWING E-807.

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 IN SPACE.

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

N. REFER TO DRAWING E-302-E FOR LIGHTING CONTROL NOTES.

LIGHTING KEYNOTES 265###

265601 (TYPICAL) ALL CELLS, TOILETS & SHOWERS WILL HAVE LIGHTING FIXTURE(S) SUPPLIED BY CELL 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 ON E-302-E 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 #7 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS. MODULE TO CONTROL FIXTURES IN AREA U.O.N. WITH DOTTED LINE.

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

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

265673 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #6 ON SHEET E-807. CONTROL VIA CONTACTOR #LC4A.

265680 FIXTURE TO BE CONTROLLED BY EMERGENCY POWER CONTROL MODULE LOCATED IN STORAGE #E1016B.

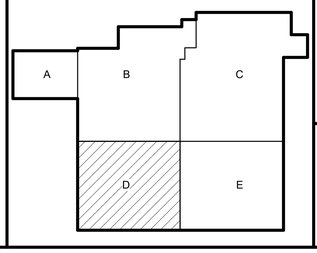
265681 CONNECT TO CIRCUIT SHOWN USING 2#10+#10G. IN 3/4"C.

265718 FURNISH AND INSTALL MULLION MOUNT SWITCH, ROUTE WIRING THROUGH MULLION.

265726 TOGGLE SWITCH FOR CONTROL OF LOWER LEVEL FIXTURE, SEE DETAIL 2 THIS SHEET.

265727 LIGHT FIXTURE CONTROLLED ON/OFF BY TOGGLE SWITCH AT TOP OF STAIRS, SEE DETAIL 1 THIS SHEET.

KEY PLAN



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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

REGISTERED PROFESSIONAL ENGINEER
MARK L. HITCHCOCK
PE001180
STATE OF INDIANA

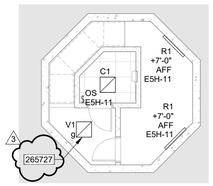
REVISION		DATE
NO.		
1	Addendum #01	09/12/19
2		09/26/19
3	Addendum #03	

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

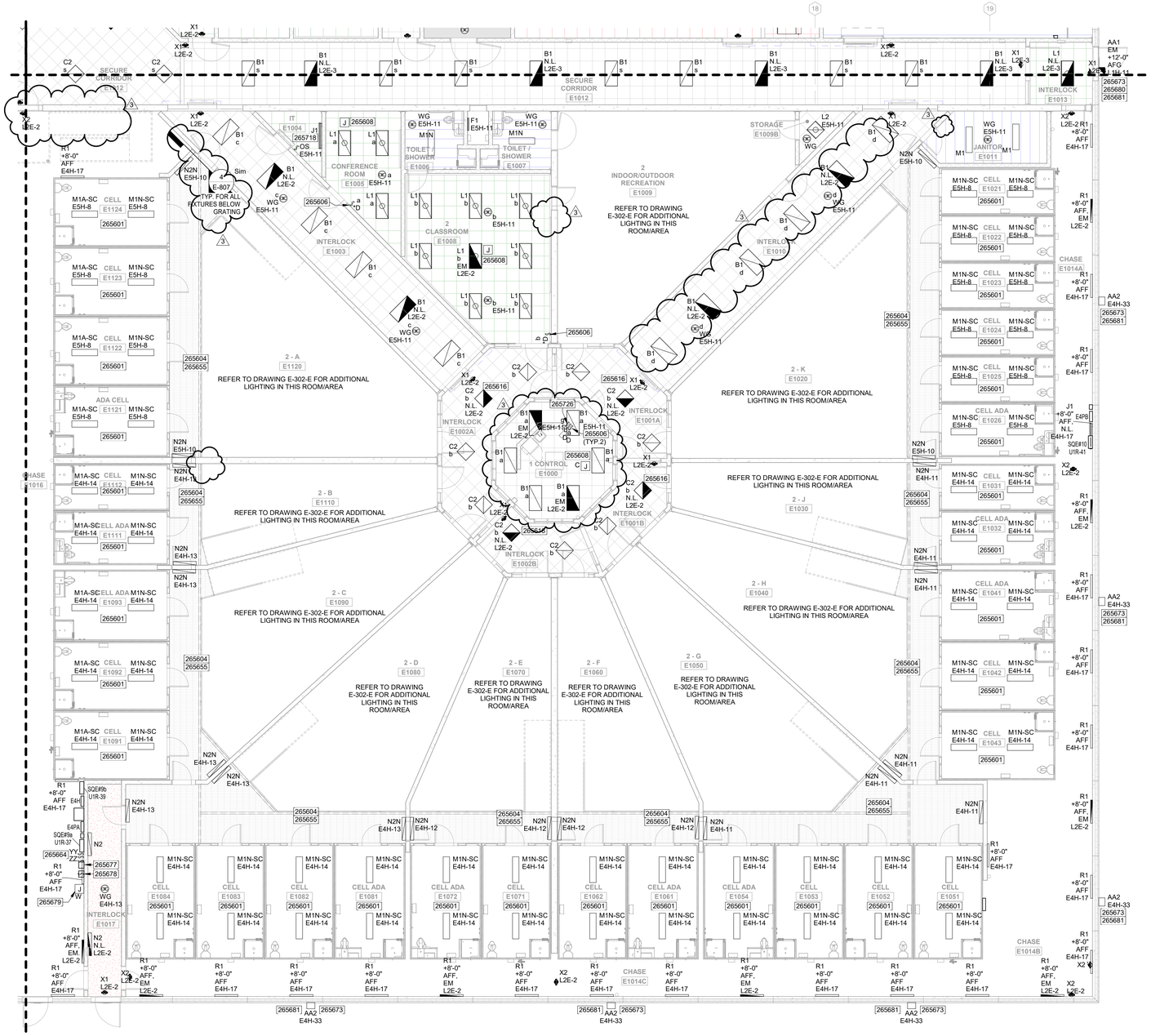
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR AND LOWER LEVEL LIGHTING PLANS - AREA D

DRAWING NUMBER E-301-D ELECTRICAL



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

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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/E-802.

C. CONDUITS SHALL NOT BE ROUTED ALONG BUILDING EXTERIOR. 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 DUCTWORK AND EQUIPMENT.

E. FOR EXTERIOR LIGHTING WIRING DIAGRAM, SEE DRAWING E-807.

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 IN SPACE.

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

N. REFER TO DRAWING E-302-E FOR LIGHTING CONTROL NOTES.

LIGHTING KEYNOTES 265###

265601 (TYPICAL) ALL CELLS, TOILETS & SHOWERS WILL HAVE LIGHTING FIXTURE(S) SUPPLIED BY CELL 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 ON E-302-E 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 #7 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS. MODULE TO CONTROL FIXTURES IN AREA U.O.N. WITH DOTTED LINE.

265616 FIXTURE TO BE CONTROLLED BY EMERGENCY POWER CONTROL MODULE LOCATED IN CONTROL #E1000.

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

265664 EXTERIOR TYPE 'SF' LIGHTING FIXTURES SHALL BE MANUALLY SWITCHED FROM LOCAL TOGGLE LIGHT SWITCH. FIXTURES SHALL ALSO BE CONTROLLED VIA LIGHTING CONTACTOR FOR DUSK-TO-DAWN CONTROL. PROVIDE LABEL ON TOGGLE SWITCH FACEPLATE IDENTIFYING EXTERIOR LIGHTING ALSO INTERLOCKED/CONTROLLED VIA LIGHTING CONTACTOR. YARD IS NOT NORMALLY OCCUPIED BY INMATES EXCEPT FOR AN EMERGENCY EVACUATION.

265673 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #6 ON SHEET E-807. CONTROL VIA CONTACTOR #LC4A.

265677 LIGHTING CONTACTORS, LC4A-LC4D, REFER TO EXTERIOR LIGHTING WIRING DIAGRAM, SHEET E-807, DETAIL #6.

265678 NEW TIME CLOCK #TC4 FOR CONTROL OF EXTERIOR LIGHTING, REFER TO EXTERIOR LIGHTING WIRING DIAGRAM, SHEET E-807, DETAIL #6. CONNECT TO CIRCUIT E4PA-42 USING 2#12+G. IN 3/4"C

265679 FURNISH AND INSTALL (1) EMERGENCY POWER CONTROL (ECP) MODULE #GTD4, LIKE LVS INC #EPC-1 OR APPROVED EQUAL IN WALL FOR CONTROL OF EXTERIOR EMERGENCY LIGHT. NON-EMERGENCY CIRCUIT SHALL BE CIRCUIT E4H-33. REFERENCE DETAIL #7 ON SHEET E-802. MODULE TO BE FLUSH MOUNTED AS INDICATED. RECORD EXACT LOCATION ON RECORD DRAWINGS.

265680 FIXTURE TO BE CONTROLLED BY EMERGENCY POWER CONTROL MODULE LOCATED IN STORAGE #E1016B.

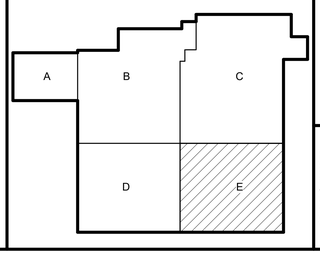
265681 CONNECT TO CIRCUIT SHOWN USING 2#10+#10G. IN 3/4"C.

265718 FURNISH AND INSTALL MULLION MOUNT SWITCH, ROUTE WIRING THROUGH MULLION.

265726 TOGGLE SWITCH FOR CONTROL OF LOWER LEVEL FIXTURE, SEE DETAIL 2 THIS SHEET.

265727 LIGHT FIXTURE CONTROLLED ON/OFF BY TOGGLE SWITCH AT TOP OF STAIRS, SEE DETAIL 1 THIS SHEET.

KEY PLAN



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NO.	REVISION	DATE
1	Addendum #01	08/12/19
3	Addendum #03	09/26/19

DRAWN: MHK,REW CHK'D: MLH
DESIGNED: MHK,REW
APPR'VD: 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

GENERAL NOTES

A. REFER TO DRAWING E-803, DETAIL #10 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA 72.

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.

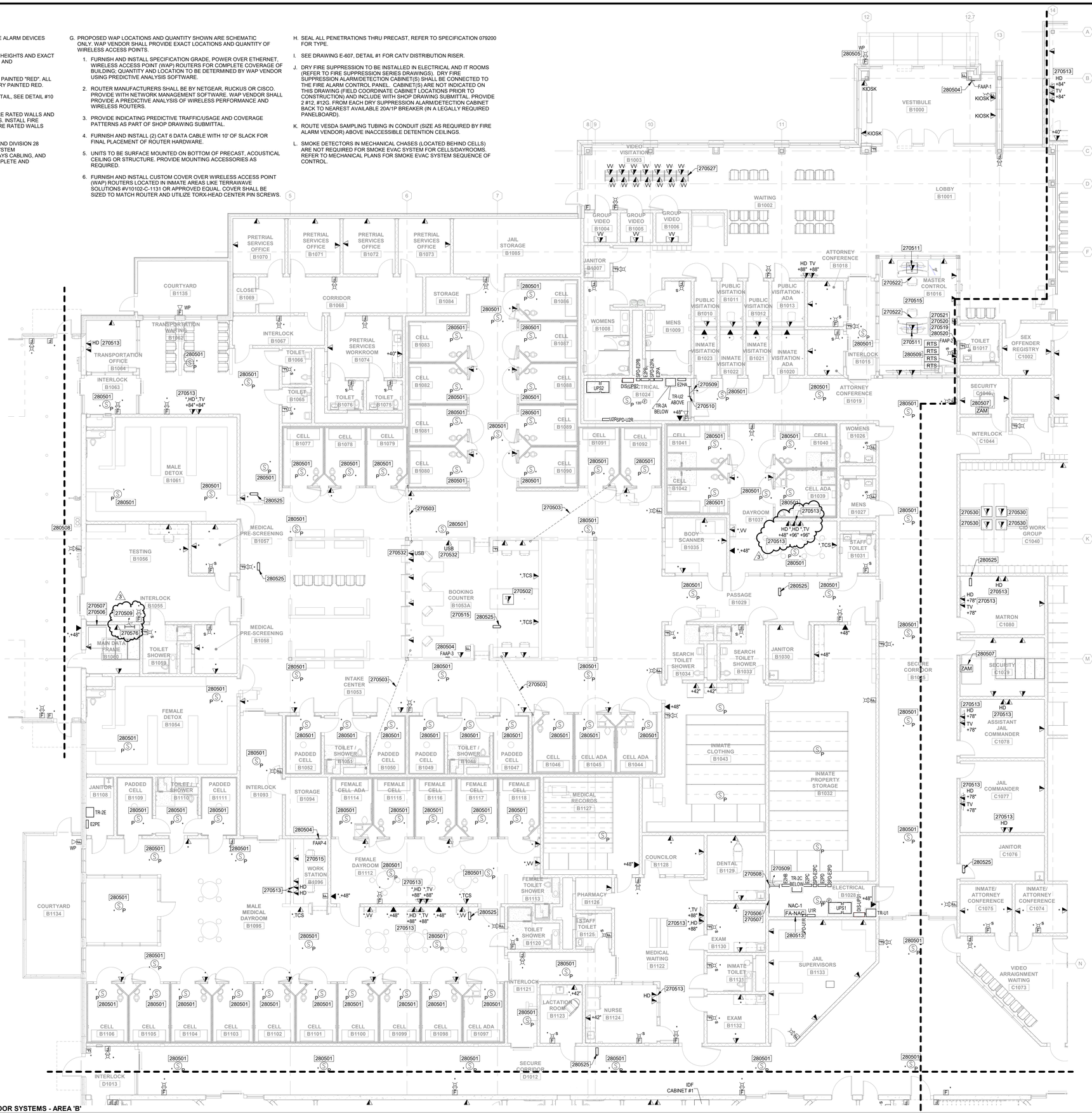
H. SEAL ALL PENETRATIONS THRU PRECAST. REFER TO SPECIFICATION 079200 FOR TYPE.

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.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PRETRIAL SERVICES OFFICE B1071
PRETRIAL SERVICES OFFICE B1072
PRETRIAL SERVICES OFFICE B1073
JAIL STORAGE B1085
COURTYARD B1135
CLOSET B1069
CORRIDOR B1068
STORAGE B1084
TRANSPORTATION WAITING B1021
TRANSPORTATION OFFICE B1064
INTERLOCK B1063
INTERLOCK B1067
TOILET B1066
TOILET B1065
TOILET B1076
TOILET B1075
PRETRIAL SERVICES WORKROOM B1074
CELL B1083
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CELL B1078
CELL B1079
MALE DETOX B1061
MEDICAL PRE-SCREENING B1057
TESTING B1056
INTERLOCK B1055
MAIN DATA FRAME B1060
TOILET SHOWER B1059
MEDICAL PRE-SCREENING B1058
FEMALE DETOX B1054
INTAKE CENTER B1053
BOOKING COUNTER B1053A
COURTYARD B1134
MALE MEDICAL DAYROOM B1095
INTERLOCK B1093
STORAGE B1094
JANITOR B1108
PADDED CELL B1109
TOILET / SHOWER B1110
PADDED CELL B1111
WORK STATION B1096
FEMALE DAYROOM B1112
FEMALE TOILET SHOWER B1113
TOILET SHOWER B1120
INTERLOCK B1121
LACTATION ROOM B1123
NURSE B1124
STAFF TOILET B1125
PHARMACY B1126
MEDICAL WAITING B1122
MEDICAL RECORDS B1127
COUNCILOR B1128
DENTAL B1129
EXAM B1130
INMATE TOILET B1131
EXAM B1132
JAIL SUPERVISORS B1133
INMATE PROPERTY STORAGE B1032
INMATE CLOTHING B1043
SEARCH TOILET SHOWER B1034
SEARCH TOILET SHOWER B1033
JANITOR B1030
PASSAGE B1029
BODY SCANNER B1035
STAFF TOILET B1031
DAYROOM B1037
CELL ADA B1039
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CELL B1042
WOMENS B1026
MENS B1027
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PADDED CELL B1050
TOILET / SHOWER B1051
PADDED CELL B1052
INTERLOCK B1013
SECURE CORRIDOR D1012
IDF CABINET #1
VESTIBULE B1000
KIOSK
VIDEO VISITATION B1003
GROUP VIDEO B1004
GROUP VIDEO B1005
GROUP VIDEO B1006
WAITING B1002
LOBBY B1001
JANITOR B1007
WOMENS B1008
MENS B1009
PUBLIC VISITATION B1010
PUBLIC VISITATION B1011
PUBLIC VISITATION B1012
PUBLIC VISITATION - ADA B1013
INMATE VISITATION B1023
INMATE VISITATION B1022
INMATE VISITATION B1021
INMATE VISITATION - ADA B1020
ELECTRICAL B1024
ATTORNEY CONFERENCE B1018
ATTORNEY CONFERENCE B1019
MASTER CONTROL B1016
INTERLOCK B1015
SEX OFFENDER REGISTRY C1002
TOILET B1017
SECURITY C1046
INTERLOCK C1044
WOMENS B1026
MENS B1027
CID WORK GROUP C1040
MATRON C1080
SECURITY C1079
ASSISTANT JAIL COMMANDER C1078
JAIL COMMANDER C1077
JANITOR C1076
INMATE/ ATTORNEY CONFERENCE C1075
INMATE/ ATTORNEY CONFERENCE C1074
VIDEO ARRAIGNMENT WAITING C1073
ELECTRICAL B1028
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FAAP-4
NAC-1
FA-NAC
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TR-2A BELOW
TR-2C BELOW
TR-2E
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E2HA
TR-U2 ABOVE
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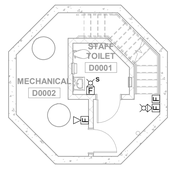
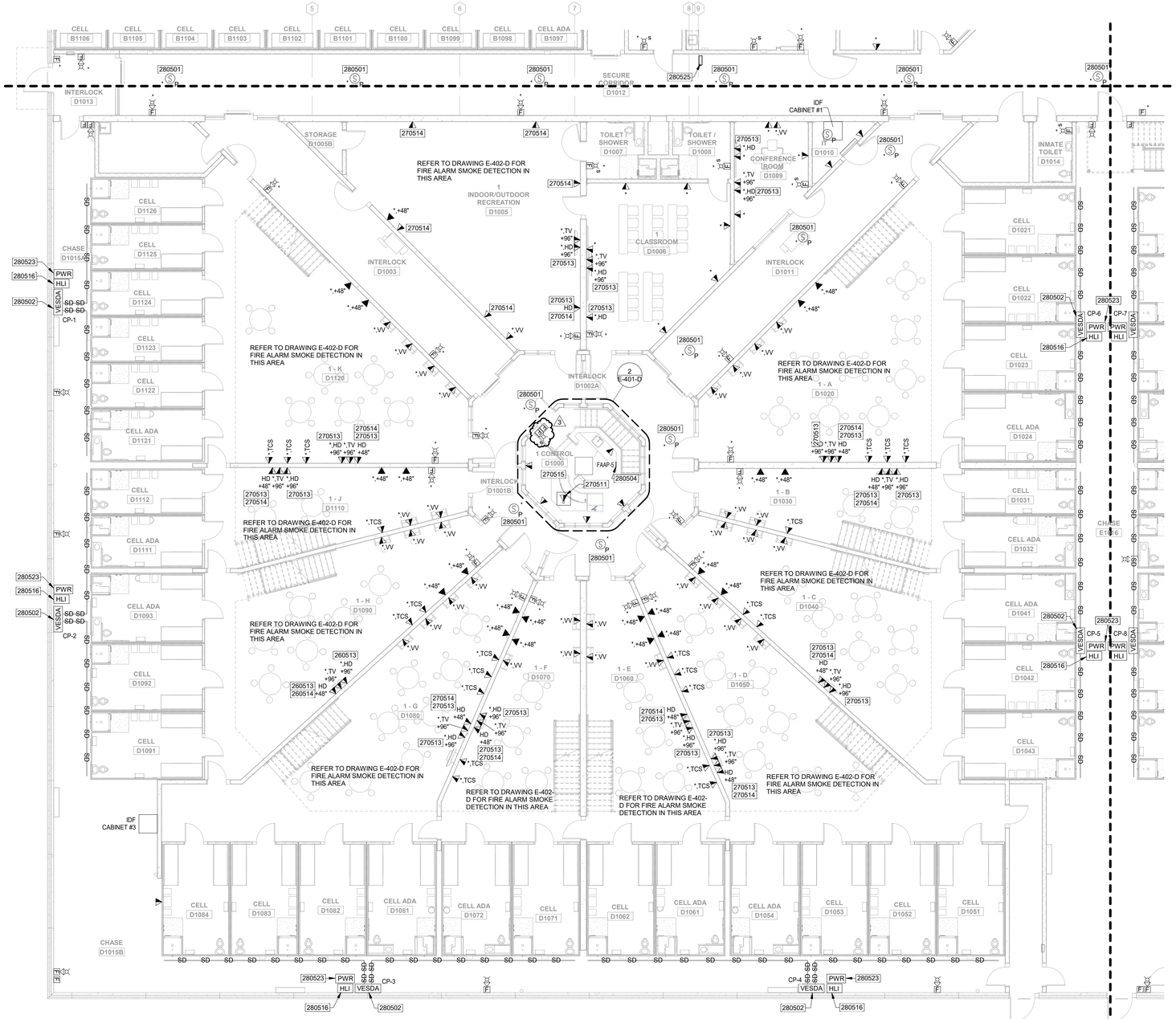


2 LOWER LEVEL SYSTEMS - AREA 'D'
E-401-D SCALE: 1/8" = 1'-0"
NORTH



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 2805## 2705##

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 #10 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.

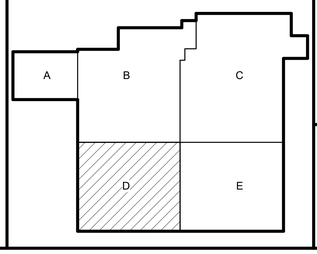
280504 FIRE ALARM ANNUNCIATOR PANEL (F.A.A.P.). PANEL TO BE RECESS MOUNTED WITH TOP AT +60" A.F.F. PROVIDE CONNECTION PER MANUFACTURER'S RECOMMENDATION TO MAIL FIRE ALARM CONTROL PANEL (FACP-1) IN ELECTRICAL ROOM #C1054.

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.

280525 SMOKE DAMPER. PROVIDE CONNECTION TO FIRE ALARM AS NEEDED PER MANUFACTURER'S RECOMMENDATION. REFER TO MECHANICAL DRAWINGS AND SPECIFICATION 233300 FOR DETAILED REQUIREMENTS.

KEY PLAN



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

MARVIN L. HITCHCOCK 10800 EAST 21ST STREET INDIANAPOLIS, INDIANA PE001 0675 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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 D

DRAWING NUMBER **E-401-D** ELECTRICAL

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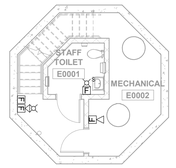
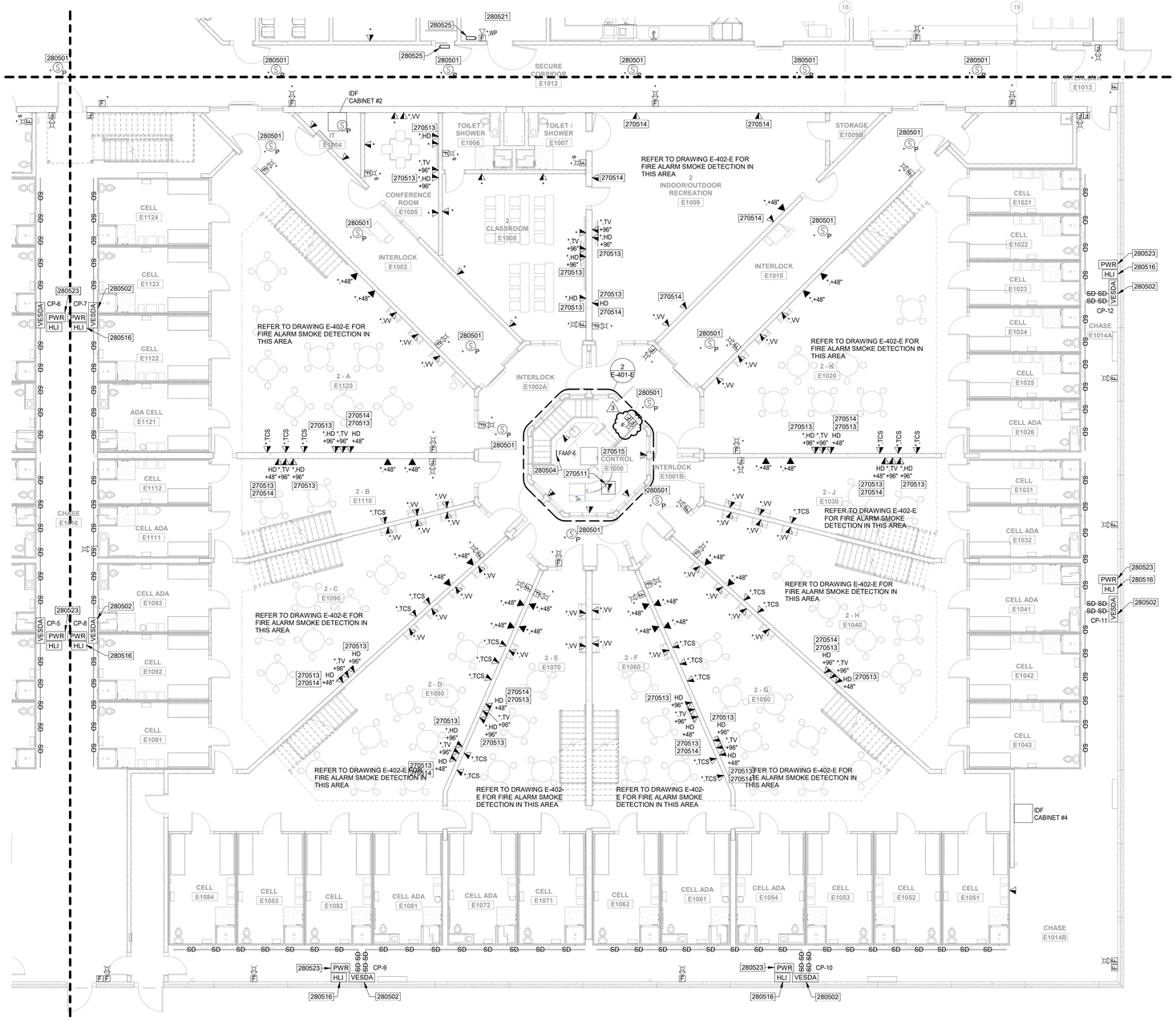


2 E-401-E **LOWER LEVEL SYSTEMS - AREA 'E'**
SCALE: 1/8" = 1'-0"
NORTH



1 E-401-E **FIRST FLOOR SYSTEMS - AREA '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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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 #V1010Z-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).

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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 2805## 2705##

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 #10 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" A.F.F. REFER TO MI-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.

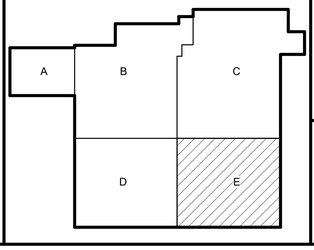
280516 PROVIDE HIGH-LEVEL-INTERFACE (HLI) AT EACH VESDA AIR SAMPLING SMOKE DETECTOR/ALARM CABINET FOR VESDA COMMUNICATION NETWORK. CONNECT TO ADJACENT VESDA CABINETS WITHIN A SMOKE CONTROL ZONE AND HOMERUN BACK TO MAIN FIRE ALARM CONTROL PANEL (FACP-1) IN ELECTRICAL ROOM #C1054. [ALTERNATIVELY, WHERE FACP-1 IS NOT SUPPORTED BY THE VESDA COMMUNICATIONS NETWORK, PROVIDE ONE(1) ZAM (FOR MONITORING 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.

280525 SMOKE DAMPER. PROVIDE CONNECTION TO FIRE ALARM AS NEEDED PER MANUFACTURER'S RECOMMENDATION. REFER TO MECHANICAL DRAWINGS AND SPECIFICATION 233300 FOR DETAILED REQUIREMENTS.

KEY PLAN



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DLZ INDIANA, LLC

MARVIN R. HITCHCOCK 10700 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE
1	Addendum #01	09/11/19
3	Addendum #03	09/25/19

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 E

DRAWING NUMBER E-401-E ELECTRICAL

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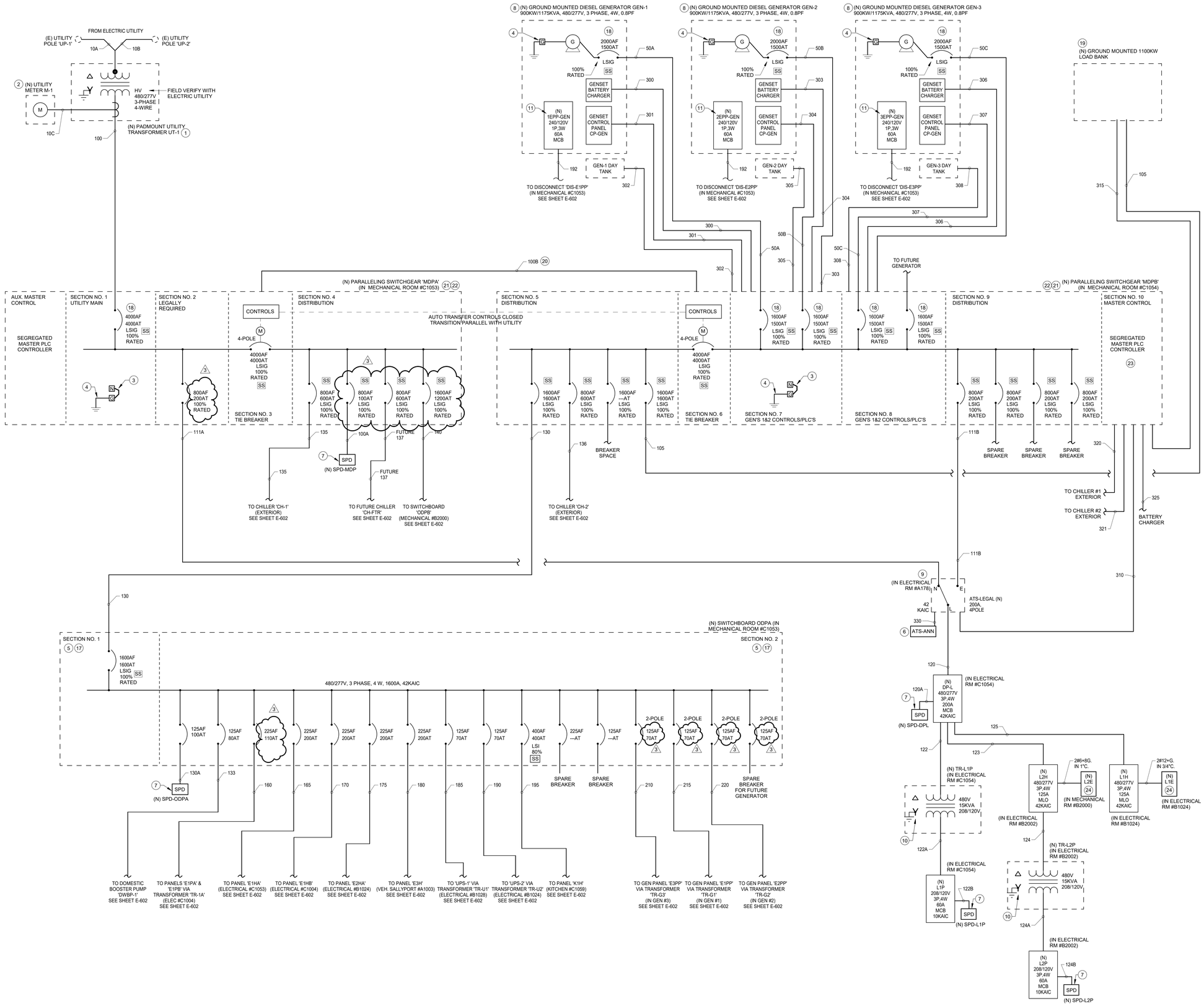

GENERAL NOTES

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.
24. FURNISH AND INSTALL CENTRAL UNINTERRUPTIBLE EMERGENCY LIGHTING INVERTER, SINGLE PHASE, 277V INPUT/OUTPUT WITH 4 OUTPUT BREAKERS, 90-MINUTE RATED BATTERY BACKUP CAPACITY AT RATED LOAD, UL 924 LISTED, 3KW MINIMUM FOR L1E, 10KW MINIMUM FOR L2E, CONTROLLED POWER MODEL ELU OR APPROVED EQUAL BY MYERS, DUAL-LITE, EATON.

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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK ° REG. NO. PE001 9675 ° STATE OF (IN) DIANA ° PROFESSIONAL ENGINEER

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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

ONE-LINE DIAGRAM

DRAWING NUMBER: E-601 | ELECTRICAL

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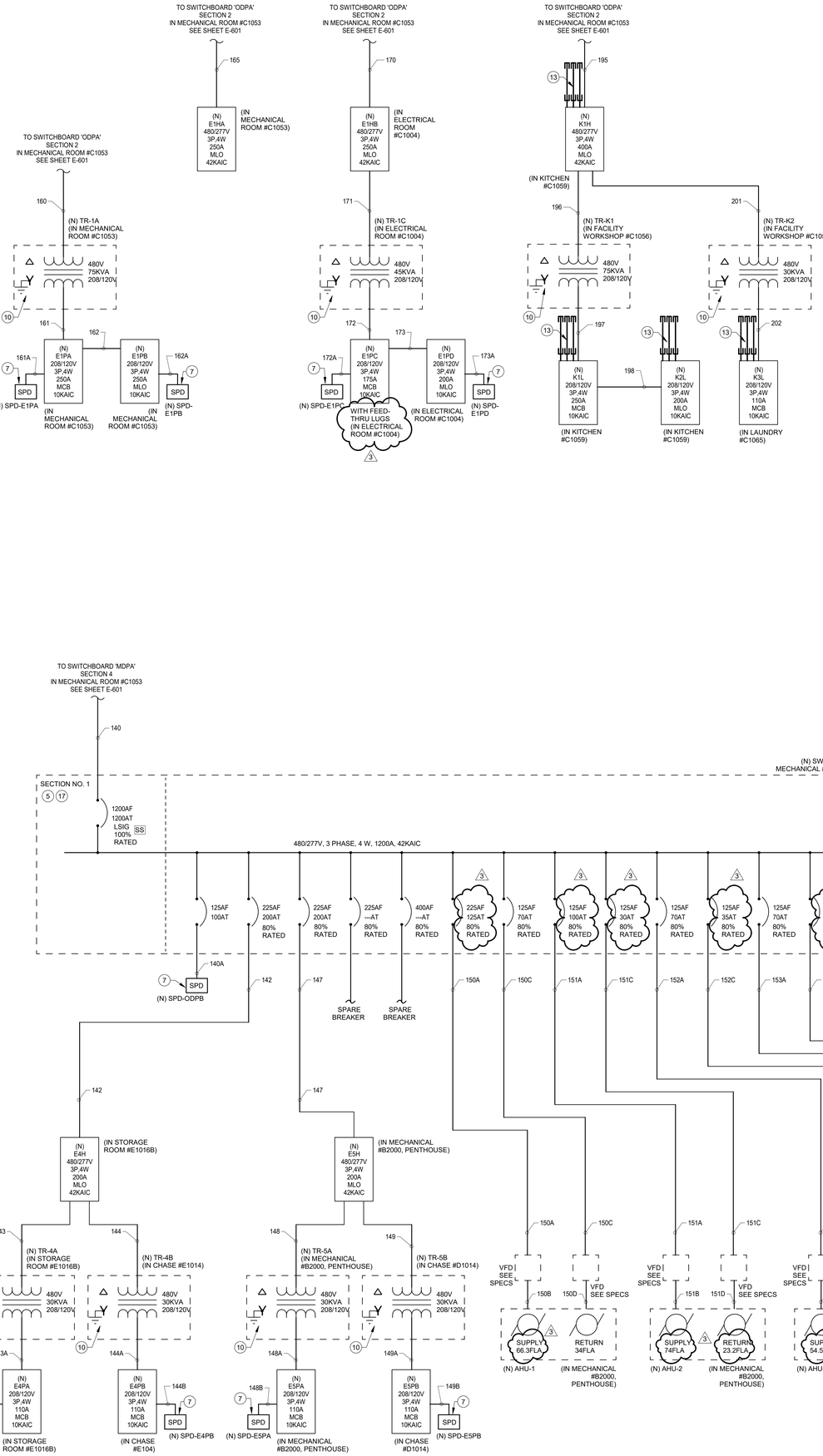

GENERAL NOTES

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MARVIN L. HITCHCOCK 10 STATE OF INDIANA PE0018675 REGISTERED PROFESSIONAL ENGINEER

NO.	REVISION	DATE
3	Addendum #03	09/26/19

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW
APPR'VD: 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-L1P'	480	3	3	30A	3#10, #12G.	3/4"C.	
122A	TRANSFORMER 'TR-L1P'	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'	480/277	3	4	100A	4#3, #6G.	1-1/4"C.	
124	LIGHTING PANEL 'L2H'	TRANSFORMER 'TR-L2P'	480	3	3	30A	3#10, #12G.	3/4"C.	
124A	TRANSFORMER 'TR-L2P'	LIGHTING PANEL 'L2P'	120/208	3	4	60A	4#6, #8G.	1"C.	
124B	LIGHTING PANEL 'L2P'	SURGE PROTECTIVE DEVICE 'SPD-L2P'	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'	480/277	3	4	100A	4#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' DISCONNECT	480	3	3	80A	3#3, #6G.	1-1/4"C.	
133A	DOMESTIC BOOSTER PUMP 'DWBP-1' DISCONNECT	DOMESTIC BOOSTER PUMP 'DWBP-1'	480	3	3	80A	3#3, #6G.	1-1/4"C.	
135	SWITCHGEAR 'MDPA' / SECTION 4	CHILLER 'CH-1' DISCONNECT (EXTERIOR)	480/277	3	3	600A	2 SETS; EACH W/ 3#250 KCMIL, 1#1 G.	(2) 2-1/2"C.	
135A	CHILLER 'CH-1' DISCONNECT (EXTERIOR)	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' DISCONNECT (EXTERIOR)	480/277	3	3	600A	2 SETS; EACH W/ 3#250 KCMIL, 1#1 G.	(2) 2-1/2"C.	
136A	CHILLER 'CH-2' DISCONNECT (EXTERIOR)	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 (FUTURE)	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	125A	3#1, #6G.	1-1/4"C.	
150B	VFD - AIR HANDLER 'AHU-1' (SUPPLY FAN)	AHU-1 SUPPLY FAN	480	3	3	125A	3#1, #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	100A	3#3, #6G.	1"C.	
151B	VFD - AIR HANDLER 'AHU-2' (SUPPLY FAN)	AHU-2 SUPPLY FAN	480	3	3	100A	3#3, #6G.	1"C.	SPECIAL VFD CABLE, REFER TO SPECIFICATIONS
151C	SWITCHBOARD 'ODPB'	VFD - AIR HANDLER 'AHU-2' (RETURN FAN)	480	3	3	30A	3#10, #12G.	3/4"C.	
151D	VFD - AIR HANDLER 'AHU-2' (RETURN FAN)	AHU-2 RETURN FAN	480	3	3	30A	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	35A	3#10, #12G.	3/4"C.	

CONDUIT AND CABLE SCHEDULE (POWER)

RACEWAY	SOURCE	DESTINATION	VOLTAGE	Ø	Wire	OCPD AMPS	POWER CONDUCTORS	CONDUIT QUANTITY AND SIZE	COMMENTS
152D	VFD - AIR HANDLER 'AHU-3' (RETURN FAN)	AHU-3 RETURN FAN	480	3	3	35A	3#10, #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	35A	3#10, #12G.	3/4"C.	
153D	VFD - AIR HANDLER 'AHU-4' (RETURN FAN)	AHU-4 RETURN FAN	480	3	3	35A	3#10, #12G.	3/4"C.	SPECIAL VFD CABLE, REFER TO SPECIFICATIONS
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	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	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	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.	

SCHEDULE NOTES:

1. ELECTRIC UTILITY = DUKE ENERGY

CONDUIT AND CABLE SCHEDULE (POWER)

RACEWAY	SOURCE	DESTINATION	VOLTAGE	Ø	Wire	OCPD AMPS	POWER CONDUCTORS	CONDUIT QUANTITY AND SIZE	COMMENTS
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.	

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

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

NO.	REVISION	DATE
3	Addendum #03	09/26/19

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
						3								
AIR HANDLER 'AHU-4' (CKT1 - LIGHTS)	120	1	---	5.22	---	E5PA-13	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-14	20	1	2#12, 1#12 GND.	3/4"C.	E.C.	---	MECHANICAL #B2000, DRAWING E-204	*1
						3								
CHILLER 'CH-1'	480	3	---	495MCA	---	MDPA-4	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	---	MDPA-5 3	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-10 3	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-22 3	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 No. PE60018676
STATE OF INDIANA
PROFESSIONAL ENGINEER

NO.	REVISION	DATE
3	Addendum #03	09/26/19

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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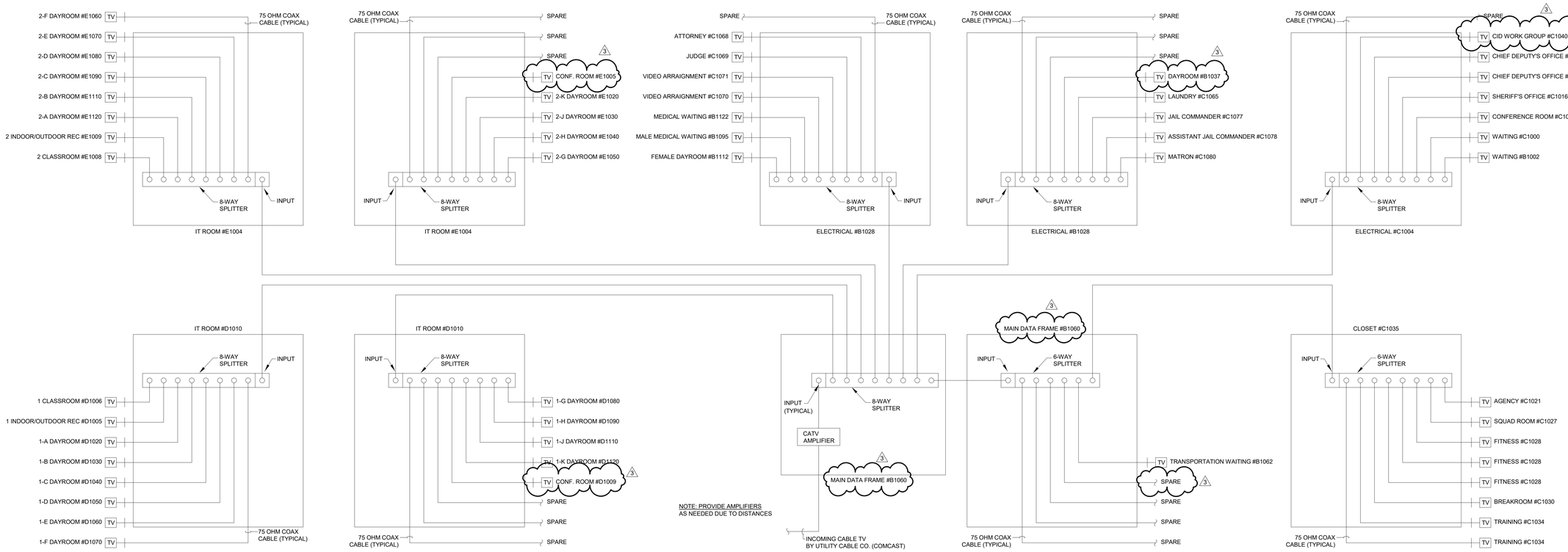
Lighting Fixture Schedule

TYPE	Count	LAMP	WATTAGE	VOLTAGE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURER AS APPROVED BY ENGINEER	EQUAL MANUFACTURER AS APPROVED BY ENGINEER	TYPE COMMENTS
A1	117	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	LAY IN
A2	68	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	LAY IN
AA1	29	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			MOUNT ON WALL WITH BOTTOM AT +17'-4" AFG UNLESS OTHERWISE NOTED.
AA2	13	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 NOTED.
B1	264	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			LAY IN
B2	40	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	LAY IN
B3	1	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	LAY IN
C1	9	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	LAY IN
C1F	4	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, FLANGE-MOUNTED	LITHONIA 2GTLF-2-20L-FW-A19-MVOLT-EZ1-LP840-PAF	EATON METALUX 22GR-FA-LD5-20-A19/156-UNV-L840-CD1-PAF-U, DF-22-W	HUBBELL COLUMBIA LJT-22-40-MW-SM-FA-A19-ED1-U-PAF	LAY IN
C2	35	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	LAY IN
CC1	8	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	CALIFORNIA ACCENT LIGHTING ALS600T-ASM-XX-3.0K-8W-10V-BF-WET-UNV-2FT / ALS600T-AA-XX-3"	BARTCO BSW214-2-30-ID-H-ASYM / DISTRIBUTION ARM MOUNT / SN FINISH	MOUNT ON WALL WITH BOTTOM AT +12'-0" AFG UNLESS OTHERWISE NOTED.
CC2	12	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	CALIFORNIA ACCENT LIGHTING ALS800T-F-XX-3.0K-8W-10V-BF-WET-277V-2FT / PENDANT MOUNT	BARTCO BSW214-2-30-ID-H / STEM MOUNT / SN FINISH	SURFACE MOUNTED
D1	6	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	FLUSH MOUNTED IN CEILING
D2	6	LED	19 W	277 V	6" DIAMETER LED FIXTURE, RECESSED DOWNLIGHT, 1000 LUMENS, 4000K, SPECULAR REFLECTOR, WHITE DIE CAST TRIM RING, RECESSED LENS, SUITABLE FOR WET LOCATION (SHOWER RATED)	GOTHAM LIGHTING EVO-40/10-6DFR-MVOLT	EATON HALO PD610ED010 / PDM6A840 / 61VW	HUBBELL PRESCOLITE LB6LEDA10L-40K-WH-DBXQL	FLUSH MOUNTED IN CEILING
EE1	3	LED		277 V	48"L x 3-3/8"H x 2-3/4"W , LINEAR LED LIGHT, EXTRUDED ALUMINUM HOUSING WITH ALUMINUM END CAPS, CUSTOM COLOR POWDER-COAT FINISH (FINISH COLOR SHALL MATCH THE FINISH COLOR OF THE SIGN TO BE ILLUMINATED), CORROSION RESISTANT FINISH OPTICS, 15WATTS PER FOOT LIGHT SOURCE, 4000K COLOR, 82+CRI, 3686 LUMENS, 120V, NON-DIMMABLE, TEMPERED GLASS LENS, SUITABLE FOR -20 DEGREES C TO 50 DEGREES C AMBIENT TEMPERATURE, 5-YEAR WARRANTY, SURFACE MOUNT, CONCEALED WIRE MOUNTING OPTION.	INSIGHT LIGHTING MVWII-15-40K-ASYU-SMSCW-48"-INT1-NO-CC-CRF	CALIFORNIA ACCENT LIGHTING ALS450T-F-XX-3.0K-9W-BF-WET-277V-4FT / ALS450T-MC-2	OR APPROVED PERFORMANCE EQUAL.	CUSTOM FINISH SHALL MATCH SIGN. SUBMIT COLOR CHART WITH ALL AVAILABLE COLORS FOR IFNAL SELECTION BY ARCHITECT. FIELD COORDINATE MINIMUM LENGTH OF AC JUMPER CABLES REQUIRED PRIOR TO PROCUREMENT FOR FEED THROUGH WIRING TO MULTIPLE FIXTURES AND FOR LEADER CABLE. FIXTURE REQUIRES A WET RATED JUNCTION BOX FOR CONCEALED WIRE CONNECTION.
F1	58	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	OR APPROVED PERFORMANCE EQUAL	OR APPROVED PERFORMANCE EQUAL.	WALL MOUNT, COORDINATE WITH MECHANICAL AND PLUMBING EQUIPMENT IN CHASE
F2	8	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	17	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	61	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-CLXRW48WH-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	9	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	36	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	5	LED	21 W	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	LIGMAN LIGHTING UMV-30031-2X10W-N-W30-XX-12/277 / FUSE	G LIGHTING GL-6540-C-R2-R2	MOUNT ON WALL WITH BOTTOM AT +6'-9" AFG UNLESS OTHERWISE NOTED.
G1	7	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	21	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	1	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	2	LED	21 W	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 DIMMING WITH FINISH AS SELECTED BY ARCHITECT.	INSIGHT LIGHTING MVWII-7-30K-100 DEGREE-SMS-48-277-NO-XX	CALIFORNIA ACCENT LIGHTING ALS450T-F-XX-3.0K-9W-BF-WET-277V-4FT / ALS450T-MC-1	LUMENPULSE LOG SERIES AS AN APPROVED EQUAL	FIXTURE TO BE SURFACE MOUNTED ON TOP OF VESTIBULE AND AIMED AT CENTER OF LOGO.
J1	4	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			FIXTURE TO BE SURFACE MOUNTED U.O.N.
L1	89	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	INSTALL IN SECURITY GRID
L1B	52	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	INSTALL IN SECURITY GRID
L2	22	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	INSTALL IN SECURITY GRID
L2B	42	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	INSTALL IN SECURITY GRID
M1	25	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			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	8	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	25	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	1	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.
N2	4	LED	74 W	277 V	8" X 48", IMPACT AND VANDAL RESISTANT FIXTURE, 67 WATT, 5000K, SURFACE CORNER WALL MOUNT, 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 COATE FINISH. TAMPER RESISTANT TORX SCREWS WITH SCREWDRIVER ACCESSORY. REMOVABLE GEAR TRAY. UL LISTED FOR DAMP LOCATION.	KENALL CD4-0/0-67L40K-DCC-DV-2/J-1-RGT	EATON FAIL-SAFE FCC-X-4-LD4-2STD-40-UNV-81/88-EDD1	NEWSTAR LIGHTING 554-B-L2-40-1-4/B-UN-TH-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	120	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	180	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	40	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	76	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	7	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 SSA8X30W-XX	LITHONIA DSX SERIES AS AN APPROVED EQUAL.	HUBBELL BEACON VPS SERIES AS AN APPROVED EQUAL.	REFER TO LIGHT POLE FOUNDATION DETAIL #5 ON SHEET E-802 FOR POLE BASE DETAIL.
SB	20	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 SSA8X30W-XX	LITHONIA DSX SERIES AS AN APPROVED EQUAL.	HUBBELL BEACON VPS SERIES AS AN APPROVED EQUAL.	REFER TO LIGHT POLE FOUNDATION DETAIL #5 ON SHEET E-802 FOR POLE BASE DETAIL.
SC	9	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 #5 ON SHEET E-802 FOR POLE BASE DETAIL.
SD	3	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 POL



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	MECH. #B2000, 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 MANUFACTURERS REQUIREMENTS.
NOTE: REFER TO SPECIFICATION 262213 FOR DETAILED EQUIPMENT REQUIREMENTS.

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

MARVIN L. HITCHCOCK 10000 PE60018675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE
3	Addendum #03	09/26/19

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	92000 VA	
4	Panel 'E3H' - Rm A1003	3	225 A	200 A	81965 VA	
5	Panel 'E1HA' - Rm C1053	3	225 A	200 A	64746 VA	
6	Panel 'E1HB' - Rm C1004	3	225 A	200 A	91789 VA	
7	Uniterruptible Power Supply 'UPS-1' via Tranformer 'TR-U1' - Rm B1024	3	125 A	70 A	36540 VA	
8	Uniterruptible Power Supply 'UPS-2' via Tranformer 'TR-U2' - Rm B1024	3	125 A	70 A	28710 VA	
9	Surge Protective Device 'SPD-DPOA' - Rm C1053	3	125 A	100 A	0 VA	
10	Domestic Booster Pump 'DWBP-1' - Rm C1053	3	125 A	80 A	53184 VA	
11	Panel '1EPP' in Generator Enclosure via Transformer 'TR-G1'	2	125 A	70 A	0 VA	
12	Panel '2EPP' in Generator Enclosure via Transformer 'TR-G2'	2	125 A	70 A	0 VA	
13	Panel '3EPP' in Generator Enclosure via Transformer 'TR-G3'	2	125 A	70 A	0 VA	
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	722674 VA	
				Total Amps:	869 A	

3

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	79425 VA	100.00%	79425 VA		
Lighting	30952 VA	100.00%	30952 VA	**Total Conn. Load:**	722674 VA
Motor	176988 VA	107.51%	190284 VA	**Total Est. Demand:**	593716 VA
Other	4160 VA	100.00%	4160 VA	**Total Conn. Current:**	869 A
Receptacle	167640 VA	52.98%	88820 VA	**Total Est. Demand Current:**	714 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	49000 VA	100.00%	49000 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	225 A	200 A	103866 VA	
2	Panel 'E2HB' - Electrical B1028 (First Floor)	3	225 A	200 A	102763 VA	
3	Panel 'E4H' - Storage E1016B (First Floor)	3	225 A	200 A	106113 VA	
4	Spare	3	225 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	225 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:	628845 VA	
				Total Amps:	756 A	

3

3

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	48671 VA	100.00%	48671 VA		
Lighting	50724 VA	100.00%	50724 VA	**Total Conn. Load:**	628845 VA
Motor	315687 VA	104.87%	331061 VA	**Total Est. Demand:**	591839 VA
Receptacle	107360 VA	54.66%	58680 VA	**Total Conn. Current:**	756 A
Cooling	67070 VA	100.00%	67070 VA	**Total Est. Demand Current:**	712 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	3700 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	SPARE	20 A	1	0	3546					3	20 A	Dedicated Outdoor Air System 'DOAS-1' - on Roof	8
9	EM Lighting - Admin Area	20 A	1			1045	3546			--	--	--	10
11	EM Lighting - Exterior Facade (Area C) [via GTD1]	20 A	1					68	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	1981					3	100 A	Panel 'L1H' - Electrical B1024	20
21	--	--	--			1000	261			--	--	--	22
23	--	--	--					750	199	--	--	--	24
25	Panel 'L2H' - Electrical B2002 (Penthouse)	100 A	3	13768	0					3	60 A	Surge Protective Device 'SPD-DPL'	26
27	--	--	--			13350	0			--	--	--	28
29	--	--	--					13236	0	--	--	--	30
			Total Load:	20244 VA		19179 VA		17772 VA					
			Total Amps:	74 A		70 A		64 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	21274 VA	100.00%	21274 VA		
Lighting	3702 VA	100.00%	3702 VA	**Total Conn. Load:**	54944 VA
Motor	24024 VA	101.82%	24460 VA	**Total Est. Demand:**	55380 VA
Power	4032 VA	100.00%	4032 VA	**Total Conn. Current:**	66 A
Equipment	1500 VA	100.00%	1500 VA	**Total Est. Demand Current:**	67 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	Linghting Inverter 'L1E' - Rm B1024	20 A	1	1981	0					1	20 A	SPARE	8
9	EM Lighting - Lobby	20 A	1			261	0			1	20 A	SPARE	10
11	EM Lighting - Exterior Facade (Pods) [via GTD4]	20 A	1					97	102	1	20 A	EM Lighting - Exterior Facade (Sallyport) [via...	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:	1981 VA		261 VA		199 VA					
			Total Amps:	7 A		1 A		1 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2437 VA	100.00%	2437 VA		
				Total Conn. Load:	2437 VA
				Total Est. Demand:	2437 VA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 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	Linghting Inverter 'L2E' - Rm B2000	50 A	1	0	582					3	20 A	Smoke Exhaust Fan 'SEF-1-1' - Roof	8
9	SPARE	20 A	1			0	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	--	--	--					2770	0	--	--	SPACE	72
			Total Load:	13768 VA		13350 VA		13236 VA					
			Total Amps:	50 A		48 A		48 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10637 VA	100.00%	10637 VA		
Lighting	160 VA	100.00%	160 VA	**Total Conn. Load:**	39353 VA
Motor	24024 VA	101.82%	24460 VA	**Total Est. Demand:**	39789 VA
Power	4032 VA	100.00%	4032 VA	**Total Conn. Current:**	47 A
Misc	500 VA	100.00%	500 VA	**Total Est. Demand Current:**	48 A

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
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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-701
ELECTRICAL

C:\users\rwilley\Documents\1663-VIGO-ELEC_rwilley-DLZ.rvt
9/25/2019 5:31:58 PM

Branch Panel: E1HA

Location: MECHANICAL C1053
Supply From: ODPA
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	Fan Powered VAV Box 'FPV-1-15' - Rm C1031	20 A	1	2715	238					1	20 A	Exterior Wall Mounted Lighting - Area C	8
9	Lighting - Mech C1053, Receiving	20 A	1			2957	568			1	20 A	Exterior Area/Drive Lighting - Employee Parking	10
11	SPARE	20 A	1					0	634	1	20 A	Exterior Area/Drive Lighting - East Drive	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:	22194 VA		22718 VA		19837 VA					
			Total Amps:	81 A		83 A		72 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	8033 VA	100.00%	8033 VA		
Lighting	4346 VA	100.00%	4346 VA	Total Conn. Load:	64746 VA
Motor	52475 VA	108.31%	56838 VA	Total Est. Demand:	69108 VA
Other	0 VA	0.00%	0 VA	Total Conn. Current:	78 A
				Total Est. Demand Current:	83 A

Notes:

Branch Panel: E1PA

Location: MECHANICAL C1053
Supply From: TR-1A
Mounting: Surface
Enclosure: 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10k AIC
Mains Type: MCB
Mains Rating: 400 A
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	Time Clock 'TC1' - Rm C1053	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
Supply From: E1PA
Mounting: Surface
Enclosure: 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10k 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	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	CCTV Enclosure - Employee Parking Lot	64
65	--	--	--					1200	0	1	20 A	CCTV Enclosure - Employee Parking Lot	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: ELECTRICAL C1004
Supply From: ODPA
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	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			3158	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	3053	0					--	--	SPACE	14
15	Lighting - Area C West	20 A	1			1905	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	26020			--	--	--	28
29	SPACE	--	--					0	25507	--	--	--	30
			Total Load:	31393 VA		30893 VA		29539 VA					
			Total Amps:	114 A		112 A		107 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3298 VA	100.00%	3298 VA		
Lighting	12095 VA	100.00%	12095 VA	Total Conn. Load:	91789 VA
Motor	1104 VA	117.93%	1302 VA	Total Est. Demand:	60788 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: ELECTRICAL C1004
Supply From: TR-1C
Mounting: Surface
Enclosure: 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10k AIC
Mains Type: MCB
Mains Rating: 175 A
MCB Rating: 175 A

3

Notes:
NEW SURFACE MOUNTED PANEL WITH FEED-THRU LUGS.

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	525			1	20 A	Lighting	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		26020 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	750 VA	100.00%	750 VA	Total Conn. Load:	77281 VA
Motor	1104 VA	117.93%	1302 VA	Total Est. Demand:	46352 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		

3

Notes:
* - PROVIDE GROUND FAULT CURRENT INTERRUPTING (GFCI) BREAKER
200A/3P BREAKER (49,51,53) FOR PANEL 'E1PD' IS SHOWN FOR LOADING PURPOSES ONLY. PANEL TO BE CONNECTED VIA FEED-THRU LUGS.

Branch Panel: E1PD

Location: ELECTRICAL C1004
Supply From: E1PC
Mounting: Surface
Enclosure: 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10k 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	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:

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

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

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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

C:\users\rwilley\Documents\1663-VIGO-ELEC_rwilley-DLZ.rvt
9/25/2019 5:32:02 PM

Branch Panel: E2HA

Location: ELECTRICAL B1024
Supply From: ODPA
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	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 1397			1	20 A	Lighting - Intake Center, Dayroom B1037	14
15	Lighting - Intake Center Cells	20 A	1		1350 2010		1	20 A	Lighting - Lobby, Visit., Mast. Cntrl., Main Corridor	16
17	Lighting - Pretrial Offices, Transp, Detox, Testing	20 A	1			2358 282	1	20 A	Exterior Wall Mounted - Area B	18
19	Air Cooled Condensing Unit 'ACC-4' - on Roof	20 A	3	2853 315			1	20 A	Exterior Flagpole & Sign Lighting	20
21	--	--	--		2853 909		1	20 A	Exterior Area/Drive Lighting - North	22
23	--	--	--			2853 1003	1	20 A	Exterior Area/Drive Lighting - Visitor Parking	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:		32065 VA	30482 VA	29455 VA				
		Total Amps:		116 A	111 A	106 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	3692 VA	100.00%	3692 VA	
Lighting	9526 VA	100.00%	9526 VA	**Total Conn. Load:** 92000 VA
Motor	2772 VA	103.57%	2871 VA	**Total Est. Demand:** 75487 VA
Other	0 VA	0.00%	0 VA	**Total Conn. Current:** 111 A
Receptacle	30440 VA	66.43%	20220 VA	**Total Est. Demand Current:** 91 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
Supply From: TR-2A...
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 FEED-THRU LUGS. (2)

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	Receptacle - Rms B1024 & B1025	20 A	1	900 900			1	20 A	Receptacle - Rms B1084, B1085 & Exterior	8
9	Receptacle - Rms B1029 & B1031	20 A	1		820 900		1	20 A	Receptacle - Rm B1053 (Chases)	10
11	Receptacle - Rms B1026 & B1027	20 A	1			740 1120	1	20 A	Receptacle - Rms B1075 & B1076	12
13	Sliding Door 'B1029'	20 A	1	396 1000			1	20 A	Refrig- Rm B1074	14
15	Receptacle - Rms B1037 & B1038	20 A	1		540 1200		1	20 A	Micro- Rm B1074	16
17	Receptacle - 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	Receptacle - Rm B1074	20
21	Receptacle - Rm B1035	20 A	1		720 1260		1	20 A	Receptacle - Rm B1073	22
23	Sliding Door 'B1015B'	20 A	1			396 1260	1	20 A	Receptacle - Rm B1072	24
25	Sliding Door 'B1019'	20 A	1	396 1260			1	20 A	Receptacle - Rm B1071	26
27	Sliding Door 'B1018'	20 A	1		396 1260		1	20 A	Receptacle - Rm B1070	28
29	Sliding Door 'B1015A'	20 A	1			396 900	1	20 A	Receptacle - Rm B1062, B1067, B1068 & B1069	30
31	Receptacle - Rm B1015 & B1019	20 A	1	720 915			2	30 A	Air Cooled Cond. Unit 'ACC-A' - on Roof	32
33	Receptacle - Rm B1018	20 A	1		540 915		--	--	--	34
35	Time Clock 'TC2' - Rm B1024	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:
200A/3P BREAKER (37,39,41) FOR PANEL 'E2PB' IS SHOWN FOR LOADING PURPOSES ONLY. PANEL TO BE CONNECTED VIA FEED-THRU LUGS. (3)

Branch Panel: E2PB

Location: ELECTRICAL B1024
Supply From: E2PA
Mounting: Surface
Enclosure: 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10k AIC
Mains Type: MLO
Mains 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	Recepts - Rm B1053A	20 A	1	540 540			1	20 A	Recepts - Rms B1053A	8
9	Recepts - Rm B1053A	20 A	1		720 540		1	20 A	Recepts - Rms B1053A	10
11	Recepts - Rm B1053A	20 A	1			540 540	1	20 A	Recepts - Rms B1053A	12
13	Recepts - Rm B1053A	20 A	1	540 540			1	20 A	Recepts - Rms B1053A	14
15	Recepts - Rm B1053A	20 A	1		540 540		1	20 A	Recepts - Rms 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	CCTV Enclosure - Visitor Parking Lot	20 A	1	0 0			3	60 A	Surge Protective Device 'SPD-E2PB'	38
39	CCTV Enclosure - Visitor Parking Lot	20 A	1		0 0		--	--	--	40
41	Gate Controller (North Drive)	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
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 3096	--	--	--	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			2347 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		1393 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 4140			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	9688 8256			3	50 A	Panels 'E2PD' via Transformer 'TR-2D'	38
39	--	--	--		10628 7995		--	--	--	40
41	--	--	--			9936 7995	--	--	--	42
		Total Load:		34374 VA	34311 VA	34083 VA				
		Total Amps:		124 A	124 A	123 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	1218 VA	100.00%	1218 VA	
Lighting	4553 VA	100.00%	4553 VA	**Total Conn. Load:** 102763 VA
Motor	2376 VA	104.17%	2475 VA	**Total Est. Demand:** 85863 VA
Receptacle	41600 VA	62.02%	25800 VA	**Total Conn. Current:** 124 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
Supply From: TR-2C
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	Recepts - Rm B1133	20 A	1	1080 1260			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		1080 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	Recepts - 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:		9688 VA	10628 VA	9936 VA				
		Total Amps:		81 A	89 A	83 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	1188 VA	108.33%	1287 VA	
Receptacle	16220 VA	80.83%	13110 VA	**Total Conn. Load:** 30252 VA
Electric Clothes Dryer	4800 VA	100.00%	4800 VA	**Total Est. Demand:** 26041 VA
Misc.	6844 VA	100.00%	6844 VA	**Total Conn. Current:** 84 A
Misc. Non-Continuous	1200 VA	0.01%	0 VA	**Total Est. Demand Current:** 72 A

Notes:

Branch Panel: E2PD

Location: ELECTRICAL B1028
Supply From: TR-2D
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	Recepts - Rm C1080	20 A	1	720 900			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:		8256 VA	7995 VA	7995 VA				
		Total Amps:		69 A	67 A	67 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	396 VA	125.00%	495 VA	
Receptacle	16020 VA	81.21%	13010 VA	**Total Conn. Load:** 24246 VA
Cooling	1830 VA	100.00%	1830 VA	**Total Est. Demand:** 21335 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
LICENSED PROFESSIONAL ENGINEER
STATE OF INDIANA
PE001867S

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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

PANELBOARD SCHEDULES

DRAWING NUMBER
E-703
ELECTRICAL

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Branch Panel: E2PE

Location: JANITOR B1108 **Volts:** 120/208 Wye **A.I.C. Rating:** 10k AIC
Supply From: TR-2E **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 125 A
Enclosure: 1 **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	1080					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:	4140 VA		2916 VA		3096 VA					
			Total Amps:	35 A		24 A		26 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	792 VA	112.50%	891 VA		
Receptacle	9360 VA	100.00%	9360 VA	**Total Conn. Load:**	10152 VA
				Total Est. Demand:	10251 VA
				Total Conn. Current:	28 A
				Total Est. Demand Current:	28 A

Notes:

Branch Panel: L1P

Location: ELECTRICAL C1054 **Volts:** 120/208 Wye **A.I.C. Rating:** 10k AIC
Supply From: TR-L1P **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 125 A
Enclosure: 1 **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 C1076	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 **Volts:** 120/208 Wye **A.I.C. Rating:** 10k AIC
Supply From: TR-U1 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 250 A
Enclosure: 1 **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	1000			1	20 A	IT Cabinet - Rm D1010	40
41	Security Relay Panel 'SQE#10' - Rm E1014	20 A	1					250	1000	1	20 A	IT Cabinet - Rm E1004	42
43	SPACE	--	--	0	1000					1	20 A	IT Cabinet - Rm E1015	44
45	SPACE	--	--			0	1000			1	20 A	IT Cabinet - Rm D1015	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:	12300 VA		12830 VA		11410 VA					
			Total Amps:	104 A		108 A		95 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	5040 VA	100.00%	5040 VA		
Equipment	29500 VA	100.00%	29500 VA	**Total Conn. Load:**	34540 VA
				Total Est. Demand:	34540 VA
				Total Conn. Current:	96 A
				Total Est. Demand Current:	96 A

Notes:

Branch Panel: U2R

Location: ELECTRICAL B1024 **Volts:** 120/208 Wye **A.I.C. Rating:** 10k AIC
Supply From: TR-U2... **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 250 A
Enclosure: 1 **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	Communication/Data Rack - Rm C1004	20 A	1			1500	0			1	20 A	SPARE	46
47	Communication/Data Rack - Rm C1004	20 A	1					1500	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		9770 VA		9950 VA					
			Total Amps:	75 A		82 A		84 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	8460 VA	100.00%	8460 VA		
Equipment	19500 VA	100.00%	19500 VA	**Total Conn. Load:**	27960 VA
				Total Est. Demand:	27960 VA
				Total Conn. Current:	78 A
				Total Est. Demand Current:	78 A

Notes:

Branch Panel: L2P

Location: ELECTRICAL B2002 **Volts:** 120/208 Wye **A.I.C. Rating:** 10kA
Supply From: TR-L2P **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 125 A
Enclosure: 1 **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	0	1	20 A	SPARE	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		2770 VA					
			Total Amps:	29 A		26 A		23 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:**	8276 VA
Misc	500 VA	100.00%	500 VA	**Total Est. Demand:**	8570 VA
				Total Conn. Current:	23 A
				Total Est. Demand Current:	24 A

Notes:
* = PROVIDE RED BREAKER LOCK KIT FOR MAINTAINING BREAKER IN THE CLOSED POSITION.

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

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

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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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BASE BID SCHEDULE

Branch Panel: E3H

Location: VEHICLE SALLYPORT A1000 **Volts:** 480/277 Wye **A.I.C. Rating:** 42k AIC
Supply From: ODPA **Phases:** 3 **Mains Type:** MLO
Mounting: Flush **Wires:** 4 **Mains Rating:** 250 A
Enclosure: 1

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	Exterior Area/Drive Lighting - West	20 A	1	629	930					1	20 A	Lighting - Vehicle Sallyport	8
9	Exterior Wall Mounted - Sallyport	20 A	1			259	832			1	20 A	Lighting - Evidence/Storage Rooms	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:	27860 VA		27503 VA		26603 VA					
			Total Amps:	101 A		100 A		96 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	43978 VA	100.00%	43978 VA		
Lighting	2600 VA	100.00%	2600 VA	**Total Conn. Load:**	81965 VA
Motor	21346 VA	103.31%	22052 VA	**Total Est. Demand:**	82571 VA
Other	0 VA	0.00%	0 VA	**Total Conn. Current:**	99 A
Receptacle	10200 VA	99.02%	10100 VA	**Total Est. Demand Current:**	99 A
Heating	3864 VA	100.00%	3864 VA		

Notes:

BASE BID SCHEDULE

Branch Panel: E3PA

Location: VEHICLE SALLYPORT A1000 **Volts:** 120/208 Wye **A.I.C. Rating:** 10k AIC
Supply From: TR-3 **Phases:** 3 **Mains Type:** MCB
Mounting: Flush **Wires:** 4 **Mains Rating:** 125 A
Enclosure: 1 **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 'A1000'I - 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	Time Clock 'TC3' - Rm A1000	20 A	1	0	1000					1	20 A	Air Compressor Recept - Rm A1003	32
33	Gate Controller (West Drive)	20 A	1			0	1000			1	20 A	Recept Cord Reel - Rm A1003	34
35	SPARE	20 A	1					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:

ALTERNATE BID SCHEDULE

Branch Panel: E3H

Location: VEHICLE SALLYPORT A1000 **Volts:** 480/277 Wye **A.I.C. Rating:** 42k AIC
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Flush **Wires:** 4 **Mains Rating:** 250 A
Enclosure: 1

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	*, (BASE BID) Exterior Area/Drive Lighting - West	20 A	1	0	0					1	20 A	*,(BASE BID) Lighting - Vehicle Sallyport	8
9	*,(BASE BID) Exterior Wall Mounted - Sallyport	20 A	1			102	832			1	20 A	*,(BASE BID) Lighting - Evidence/Storage Rooms	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	3220			--	--	--	28
29	--	--	--					12000	3400	--	--	--	30
			Total Load:	16456 VA		16144 VA		15400 VA					
			Total Amps:	60 A		59 A		56 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	36000 VA	100.00%	36000 VA		
Lighting	925 VA	100.00%	925 VA	**Total Conn. Load:**	48000 VA
Motor	1656 VA	125.00%	2070 VA	**Total Est. Demand:**	48414 VA
Other	0 VA	0.00%	0 VA	**Total Conn. Current:**	58 A
Receptacle	6420 VA	100.00%	6420 VA	**Total Est. Demand Current:**	58 A
Heating	3000 VA	100.00%	3000 VA		

Notes:

ALTERNATE BID SCHEDULE

Branch Panel: E3PA

Location: VEHICLE SALLYPORT A1000 **Volts:** 120/208 Wye **A.I.C. Rating:** 10k AIC
Supply From: TR-3 **Phases:** 3 **Mains Type:** MCB
Mounting: Flush **Wires:** 4 **Mains Rating:** 125 A
Enclosure: 1 **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	720			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	Time Clock 'TC3' - Rm A1000	20 A	1	0	1000					1	20 A	Air Compressor Recept - Rm A1003	32
33	*,(BASE BID) Gate Controller (West Drive)	20 A	1			0	1000			1	20 A	Recept Cord Reel - Rm A1003	34
35	SPARE	20 A	1					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		3220 VA		3400 VA					
			Total Amps:	37 A		27 A		29 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1656 VA	125.00%	2070 VA		
Receptacle	6420 VA	100.00%	6420 VA	**Total Conn. Load:**	11076 VA
Heating	3000 VA	100.00%	3000 VA	**Total Est. Demand:**	11490 VA
				Total Conn. Current:	31 A
				Total Est. Demand Current:	32 A

Notes:

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

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

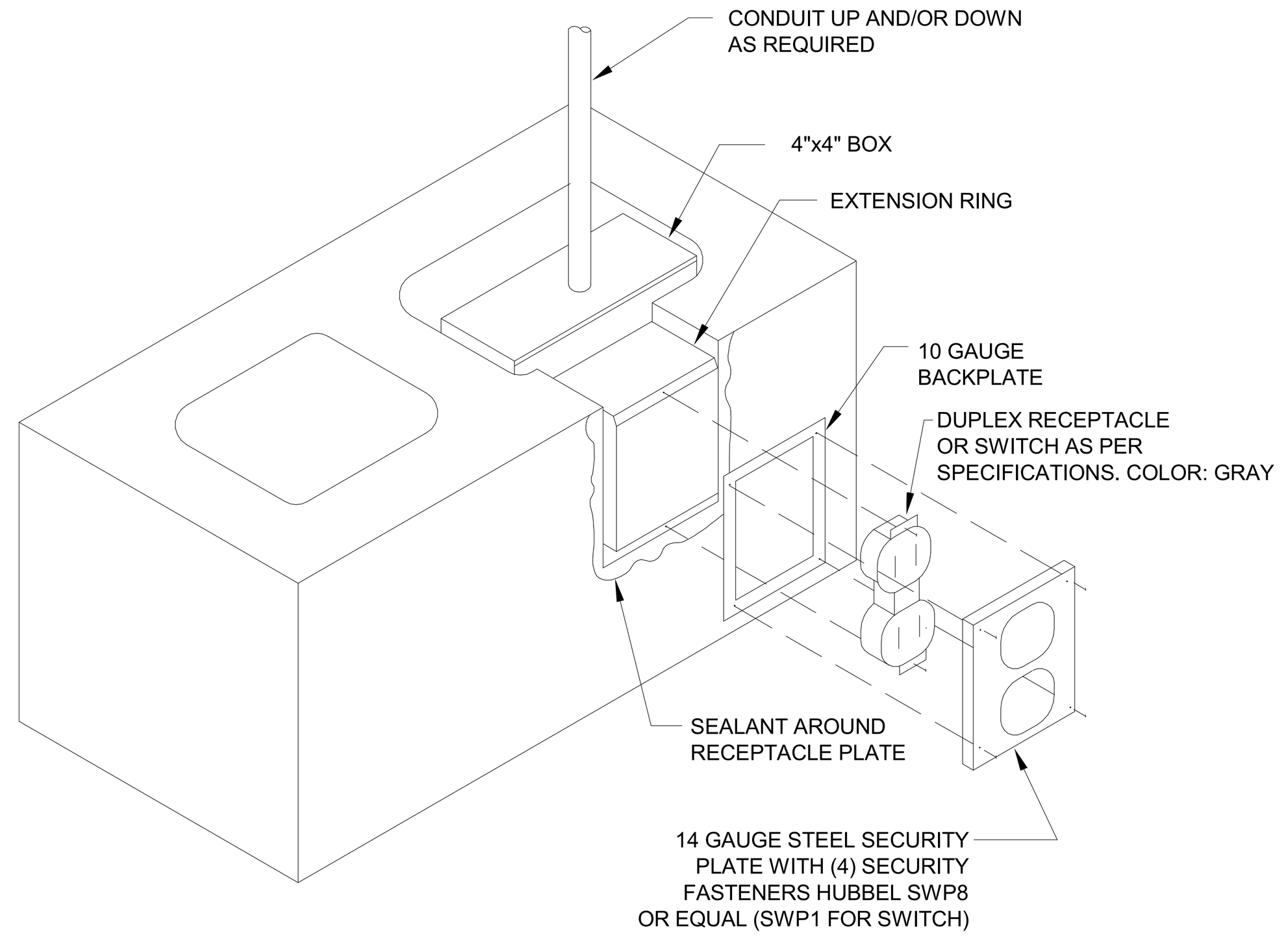
NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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

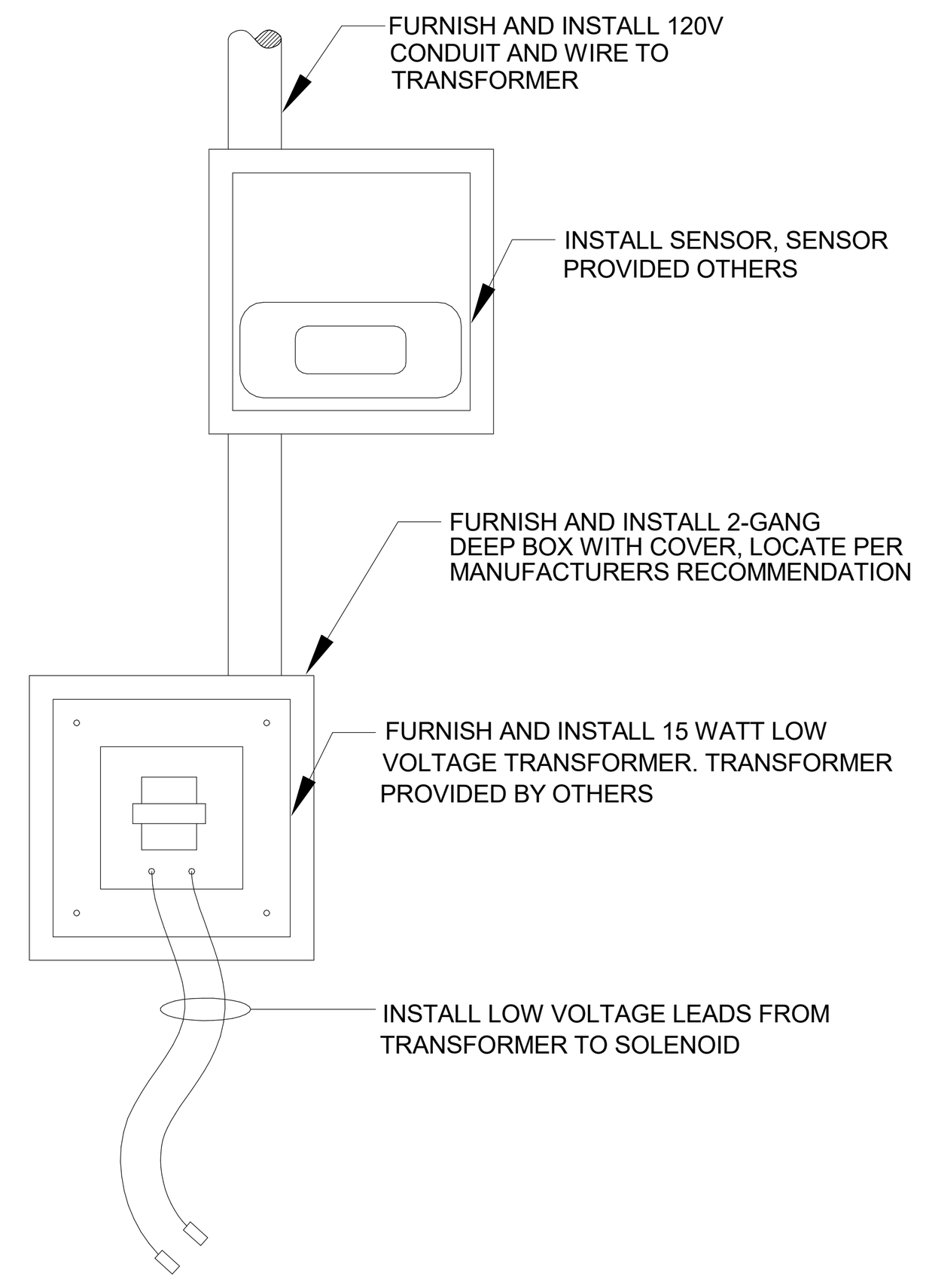
DRAWING NUMBER
E-707
ELECTRICAL



NOTES:

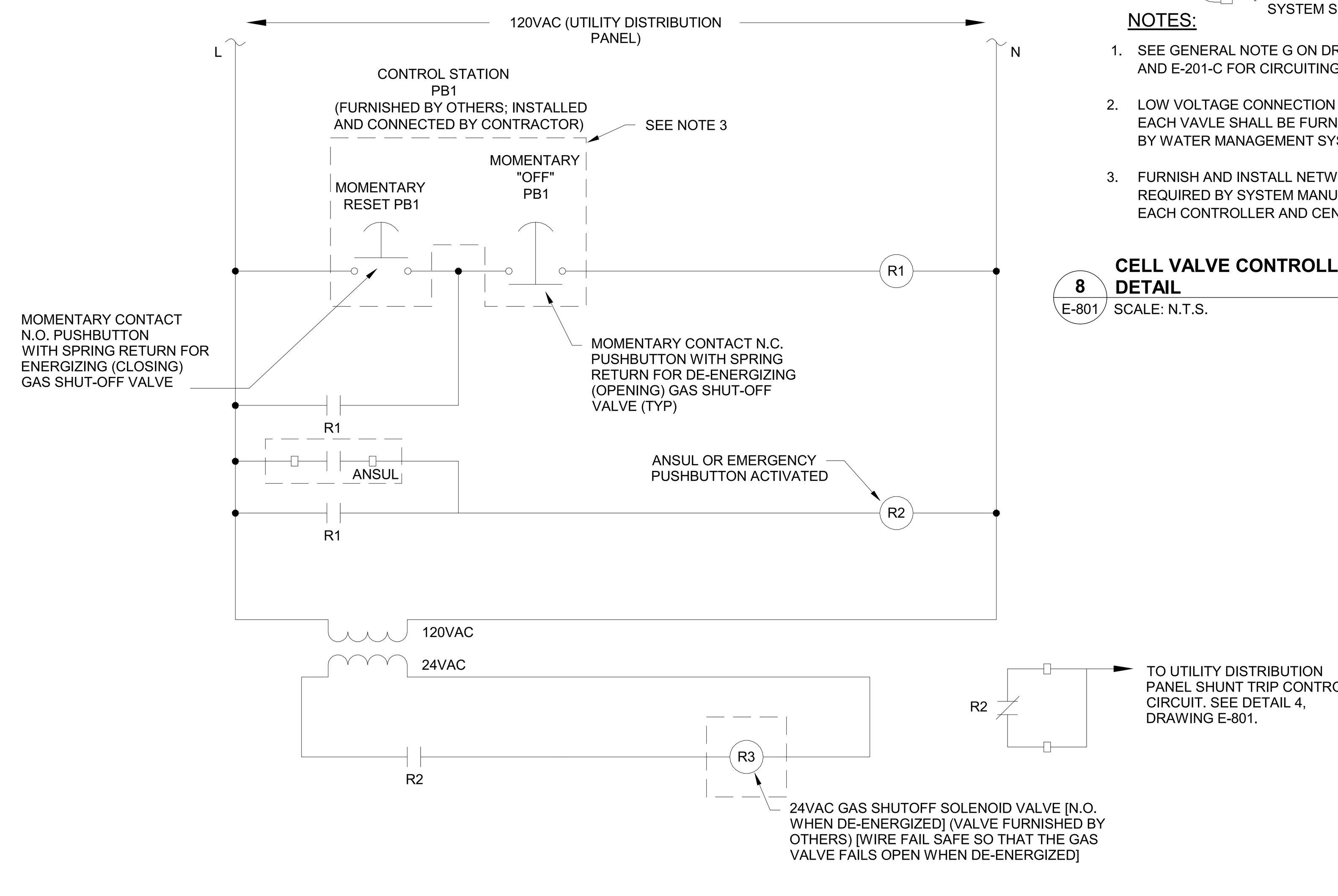
1. SEALANT SHALL BE NONPERMANENT ADHESIVE WHICH WILL ALLOW REMOVAL OF WIRING DEVICE.
2. SECURITY FASTENERS SHALL BE CENTER PIN REJECTION TORX.

1 E-801 VANDALPROOF STYLE RECEPTACLE DETAIL
SCALE: N.T.S.



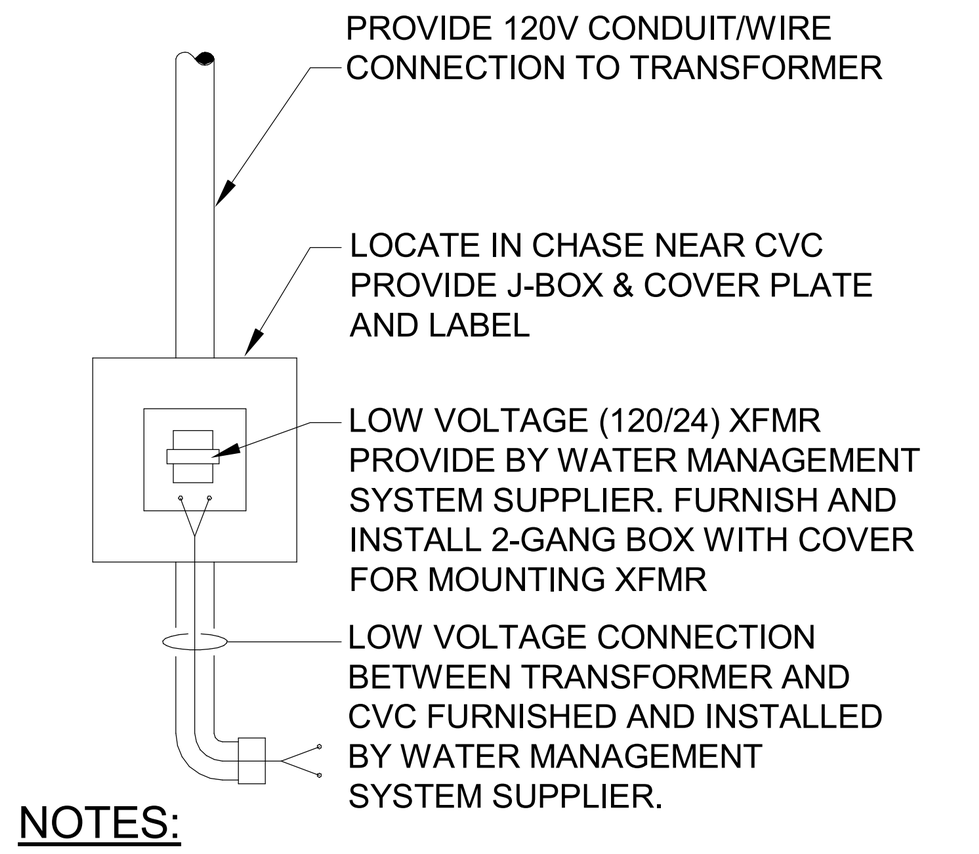
*COORDINATE LOCATION OF ALL ITEMS WITH ALL TRADES AND MANUFACTURERS RECOMMENDATION

2 E-801 AUTOMATIC ELECTRONIC FLUSH VALVE DETAIL
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.

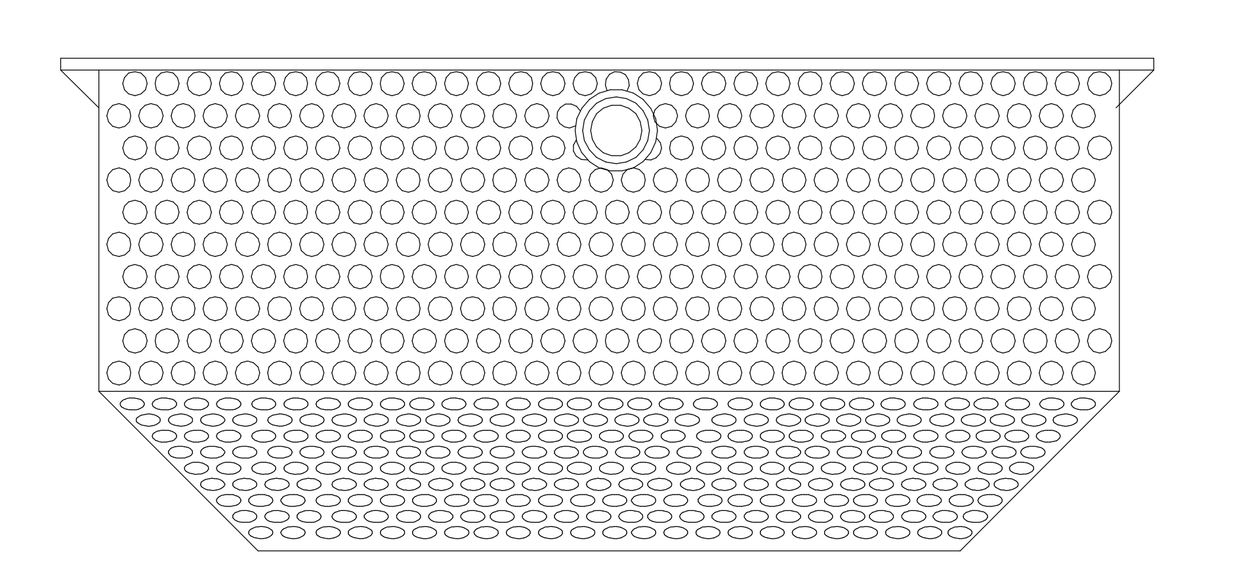
3 E-801 ANSUL OR EMERGENCY PUSHBUTTON CONTROL WIRING DIAGRAM
SCALE: N.T.S.



NOTES:

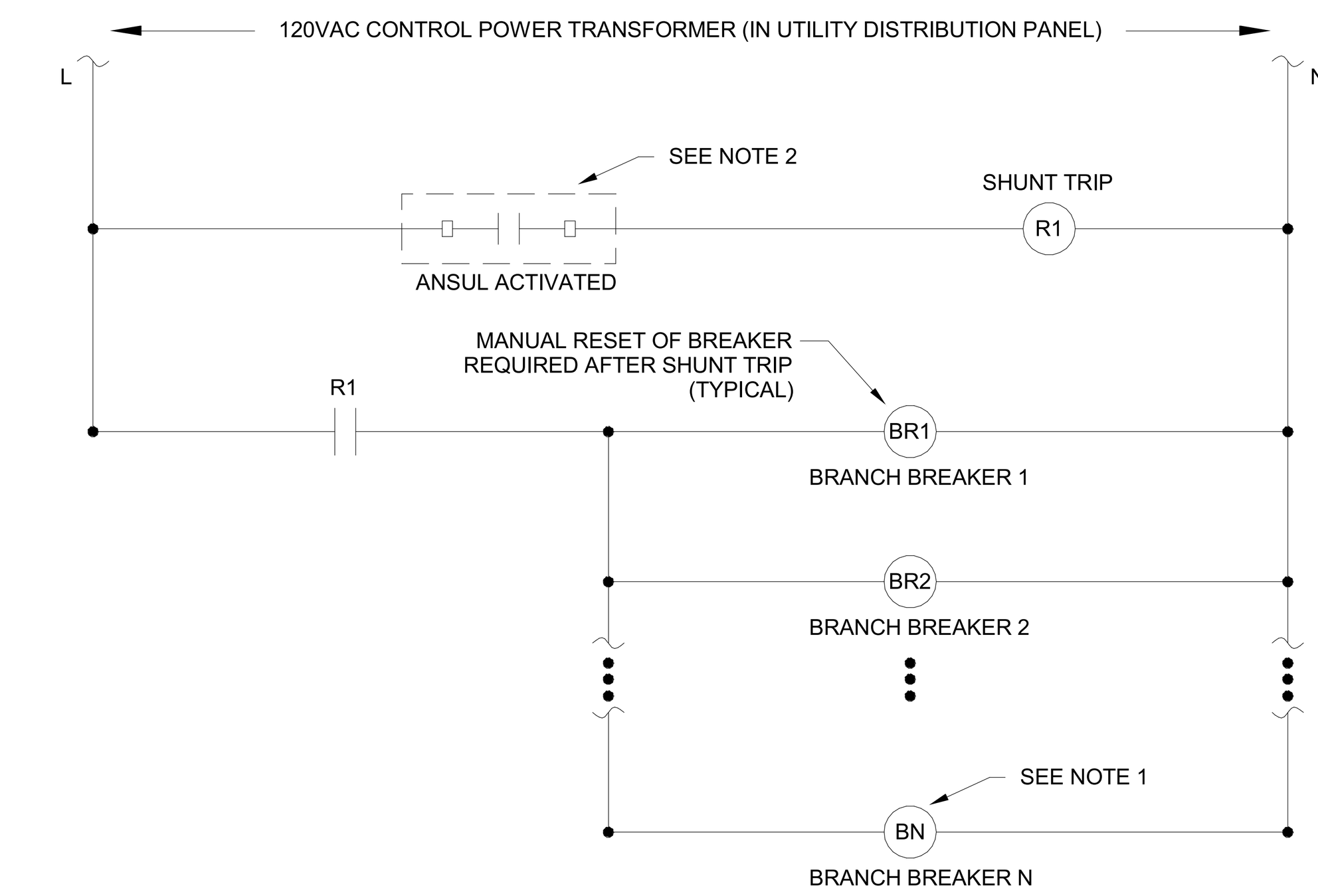
1. SEE GENERAL NOTE G ON DRAWINGS E-201-A, E-201-B, AND E-201-C FOR CIRCUITING REQUIREMENTS.
2. LOW VOLTAGE CONNECTION BETWEEN CVC AND EACH VAVLE SHALL BE FURNISHED AND INSTALLED BY WATER MANAGEMENT SYSTEM SUPPLIER.
3. FURNISH AND INSTALL NETWORK CABLING (CAT.6) AS REQUIRED BY SYSTEM MANUFACTURER BETWEEN EACH CONTROLLER AND CENTRAL PC WORKSTATION.

8 E-801 CELL VALVE CONTROLLERS (CVC) CONNECTION DETAIL
SCALE: N.T.S.



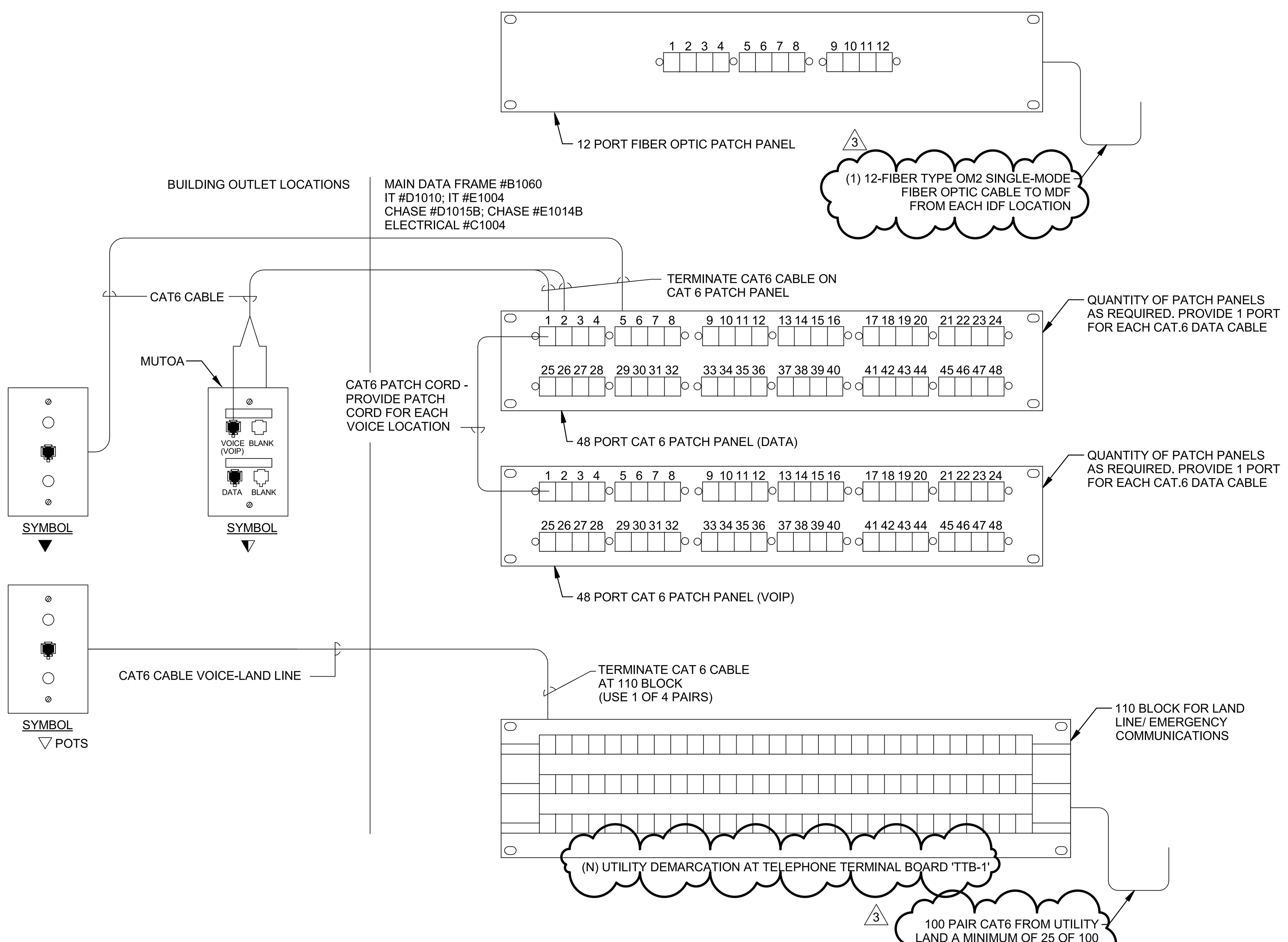
NOTES:
1. DETENTION COVER SHALL BE UL LISTED FOR USE WITH SMOKE DETECTOR. VERIFY WITH SMOKE DETECTOR MFR THAT COVER WILL ALLOW DETECTOR TO FUNCTION PROPERLY.
2. COVER SHALL HAVE CONTINUOUS WELD.
3. COVER SHALL BE 16 GUAGE STEEL WITH PERFORATED HOLES. PROVIDE 3/16" PERFORATED HOLES ON 1/2" CENTERS. SECURE COVER WITH TORX TYPE SCREWS.
4. COVER SHALL BE NATIONALLY RECOGNIZED TESTING LABORATORIES (NRTL) LISTED.

9 E-801 SMOKE DETECTOR DETENTION COVER DETAIL
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 E-801 SHUNT-TRIP BREAKER WIRING DIAGRAM
SCALE: N.T.S.



NOTES:

1. HEAD-END NETWORK EQUIPMENT (SERVER INFRASTRUCTURE, FIREWALL INFRASTRUCTURE, SWITCH INFRASTRUCTURE, WIRELESS INFRASTRUCTURE, MISCELLANEOUS HARDWARE AND INSTALLATION SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UTILIZING THE OWNER APPROVED IT VENDOR: EDGE INFORMATION TECHNOLOGIES. CONTACT: RYAN EDGELL; MOBILE PHONE: 812-514-8127; OFFICE PHONE: 317-436-0190 x810EMAIL: redgell@edgeit.com. OTHER IT VENDORS SHALL NOT BE ACCEPTABLE FOR THIS WORK UNLESS OTHERWISE PRE-APPROVED BY THE OWNER.
   MDF/IDF RACKS/CABINETS AND ALL RACK/CABINET ACCESSORIES (I.E. POWER STRIPS, SURGE PROTECTION, POWER CONDITIONERS, POE INJECTORS, SHELVES/ANCHORS, GROUND STRIPS, WIREWAYS, ETC.) SHALL BE FURNISHED AND INSTALLED AS PART OF THE HEAD-END NETWORK EQUIPMENT.

   REFER TO ELECTRICAL SYSTEMS DRAWINGS FOR MDF AND IDF LOCATIONS. HEAD-END NETWORK EQUIPMENT VENDOR SHALL FIELD COORDINATE MINIMUM RACK UNIT (RU) SPACES AND LOCATIONS REQUIRED FOR PATCH PANELS WITH STRUCTURED CABLING IT VENDOR. CONTRACTOR/VENDOR SHALL COORDINATE WITH OWNER IN REGARDS TO EXACT REQUIREMENTS FOR EQUIPMENT SELECTION, EQUIPMENT PERFORMANCE, MANUFACTURER PREFERENCES, SYSTEM PERFORMANCE, WARRANTIES, PROGRAMMING, TESTING, STARTUP, ETC. AS NECESSARY PRIOR TO PROCUREMENT. ALL COMPONENTS, ACCESSORIES, SERVICES SHALL BE SUBMITTED AS A COMPLETE, INTEGRATED SYSTEM SHOP DRAWING SUBMITTAL AND SHALL INCLUDE ALL EQUIPMENT PRODUCT DATA SELECTED AS WELL AS DETAILED AND ITEMIZED MATERIAL AND LABOR FOR EACH EQUIPMENT/LINE ITEM INDICATED IN THE ITEMIZED BILL OF MATERIAL. SUBMITTAL SHALL INCLUDE WIRELESS ACCESS POINT HEAT MAP STUDY AND LOCATIONS OF WIRELESS ACCESS POINTS FOR FULL COVERAGE THROUGHOUT THE BUILDING. SUBMITTAL SHALL INCLUDE NETWORK CONNECTION DRAWINGS AND SYSTEM INTEGRATION DRAWINGS INDICATING EQUIPMENT INTERCONNECT REQUIREMENTS AND DETAILED LABELING OF EQUIPMENT AND COMPONENTS. EQUIPMENT AND ASSOCIATED COSTING SHALL BE ITEMIZED FOR REVIEW/APPROVAL BY OWNER PRIOR TO PROCUREMENT

   SHOP DRAWING SUBMITTAL SHALL INCLUDE ALL COMPONENTS, ACCESSORIES, OPTIONS, AND ITEMS AS NECESSARY FOR A COMPLETE AND FUNCTIONAL NETWORK SYSTEM INCLUDING SERVER WORKSTATIONS, SOFTWARE, LICENSING, SERVICE, TESTING, STARTUP, AND COMMISSIONING SERVICES. CONTRACTOR/VENDOR SHALL INCLUDE ALL COSTING FOR A COMPLETE AND FUNCTIONAL SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL COORDINATION, DOCUMENTATION, EQUIPMENT AND NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM; CONTRACTOR SHALL NOT UTILIZE ENGINEER TO COORDINATE THESE REQUIREMENTS; SUBMITTALS AND PRICING SHALL ALSO BE SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO EQUIPMENT PROCUREMENT.

   EQUIPMENT SHALL BE WARRANTIED (FULL PARTS AND LABOR) FOR THREE (3) YEARS UPON SUBSTANTIAL COMPLETION. DURING STARTUP AND TRAINING, VENDOR SHALL PROVIDE THE OWNER SERVICE CONTRACT OPTIONS FOR ONGOING FULL SERVICE, PREVENTATIVE MAINTENANCE, AND REPAIRS OF THIS EQUIPMENT FOR ANNUAL/RENEWABLE PERIODS BEYOND THE WARRANTY PERIOD.

   CONTRACTOR SHALL FURNISH AND INSTALL UPS BRANCH CIRCUITS, GROUNDING, HOUSEKEEPING, PADS, ANCHORING, AND OTHER EXTRANEOUS ITEMS NECESSARY TO ACCOMMODATE THIS VENDOR FURNISHED AND INSTALLED EQUIPMENT. CONTRACTOR SHALL INCLUDE THIS ASSOCIATED WORK IN BID

2. STRUCTURED CABLING AND ALL RELATED ACCESSORIES (I.E. MUTOA OUTLETS, CONDUIT, PATCH CORDS, HORIZONTAL STRUCTURED CABLING SYSTEMS, BACKBONE STRUCTURED CABLING SYSTEMS, PATCH PANELS, J-HOOKS, CABLE TRAY, TELEPHONE INFRASTRUCTURE, MATV INFRASTRUCTURE, ETC.) SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UTILIZING THE OWNER APPROVED IT VENDOR: INNOVATIVE COMMUNICATIONS SOLUTIONS, INC. (ICS). CONTACT:STEVE CLARK; MOBILE PHONE: 812-243-1548; OFFICE PHONE: 812-232-8600; EMAIL: sclark@ics-networking.com. OTHER IT VENDORS SHALL NOT BE ACCEPTABLE FOR THIS WORK UNLESS OTHERWISE PRE-APPROVED BY THE OWNER.

   STRUCTURED CABLING IT VENDOR SHALL SHALL FIELD COORDINATE MINIMUM RACK UNIT (RU) SPACES AND LOCATIONS REQUIRED FOR PATCH PANELS WITH THE HEAD-END NETWORK EQUIPMENT VENDOR.

   STRUCTURED CABLING IT VENDOR SHALL PROVIDE A MINIMUM FIVE (5) YEAR WARRANTY, INCLUDING ALL PARTS AND LABOR, FOR THE END-TO-END PERMANENT LINK CABLING AND CABLING INFRASTRUCTURE. IN ADDITION, THE CABLING OEM (IN CONJUCTION WITH THE USE OF THE OEM'S ASSOCIATED EQUIPMENT PARTNERS) SHALL PROVIDE A MINIMUM TWENTY FIVE (25) YEAR WARRANTY.

   COMMUNICATIONS/CONTROL CABLING FOR OTHER SPECIALTY SYSTEMS (I.E. FIRE ALARM, ACCESS CONTROL, SECURITY CAMERAS, INTERCOM, ETC.) IS NOT PART OF THE IT VENDOR STRUCTURED CABLING WORK. CONTRACTOR SHALL INCLUDE THIS ASSOCIATED WORK IN BID; THIS ASSOCIATED WORK BY CONTRACTOR SHALL BE INCLUDED WITH BID AND SHALL NOT BE PART OF THE AFOREMENTIONED AFOREMENTIONED IT VENDOR STRUCTURED CABLING WORK.

3. MISCELLANEOUS SYSTEMS: CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, GROUNDING, CABLE TRAY, J-HOOKS, FIRESTOPPING, PENETRATIONS/BLOCKOUTS, PULLSTRINGS, WIRING DEVICE BOXES, SLEEVES/ENDBELLS/BUSHINGS, SUPPORTS/HANGERS, PULLBOXES, HANDHOLES, PLYWOOD BACKBOARDS, AND OTHER EXTRANEOUS ITEMS NECESSARY TO ACCOMMODATE THIS VENDOR FURNISHED AND INSTALLED EQUIPMENT FOR A COMPLETE AND FUNCTIONAL SYSTEM. CONTRACTOR SHALL INCLUDE THIS ASSOCIATED WORK IN BID; THIS ASSOCIATED WORK BY CONTRACTOR SHALL BE INCLUDED WITH BID AND SHALL NOT PART OF THE STRUCTURED CABLING VENDOR OR NETWORK HEAD-END EQUIPMENT VENDOR WORK AFOREMENTIONED.

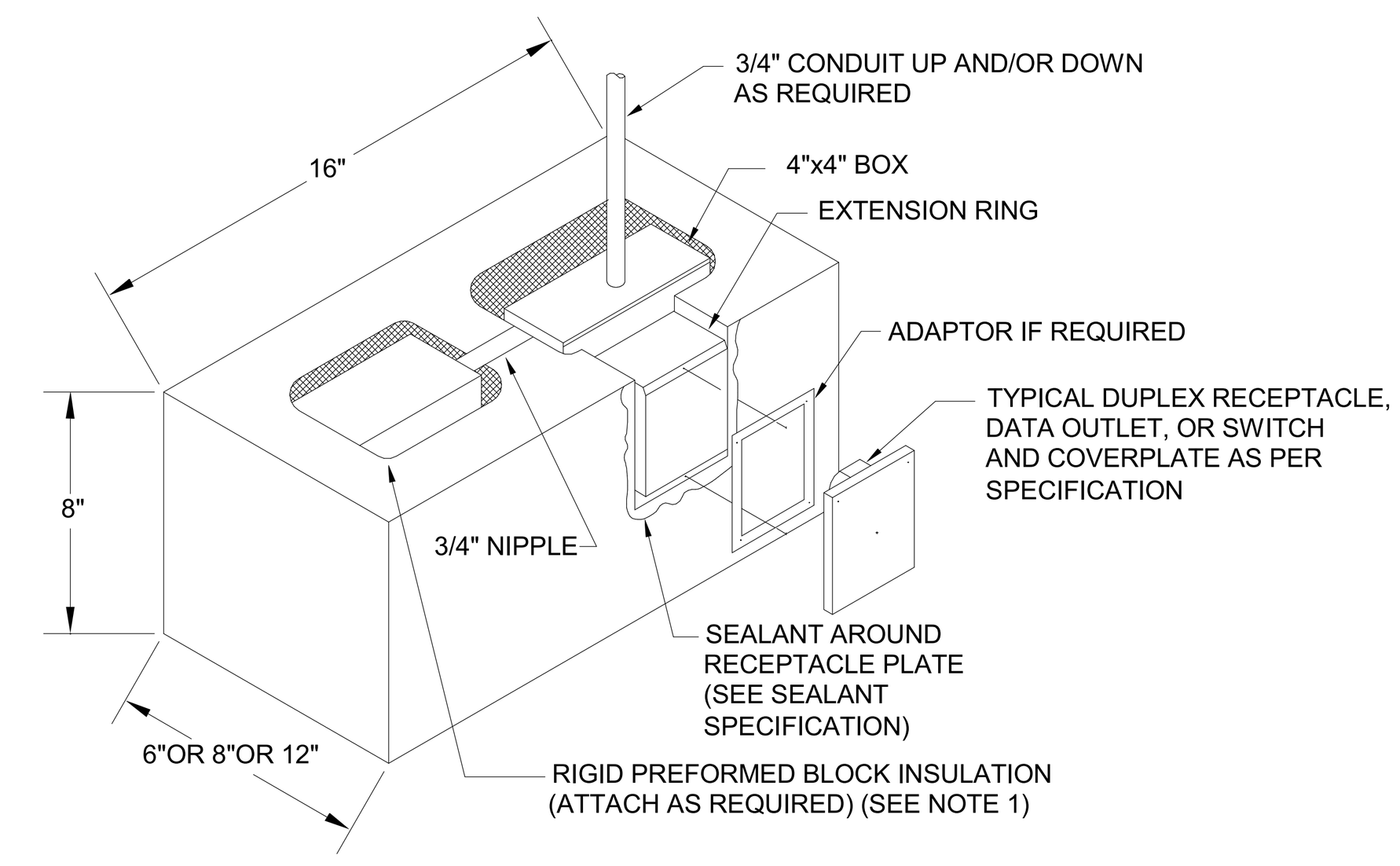
4. OWNER SHALL PROCURE THE FOLLOWING SYSTEMS AS PART OF THE FF&E (FINISHES, FURNITURE, AND EQUIPMENT) ALLOWANCE:
   A. WORKSTATIONS AND ACCESSORIES (I.E. PATCH CORDS, UNINTERRUPTIBLE POWER SUPPLIES).
   B. VOIP HEAD-END EQUIPMENT, VOIP HANDSETS, VOIP INTERCOM INTERFACE.
   C. TELEVISIONS AND TV MOUNTING ACCESSORIES.
   D. AUDIO/VIDEO CONFERENCING EQUIPMENT.
   E. SPECIALTY COMMUNICATIONS SYSTEMS NOT OTHERWISE NOTED IN PLANS AND SPECIFICATIONS

5. SEE ELECTRICAL SYSTEMS PLANS FOR DETAILED LOCATIONS AND MUTOA OUTLETS REQUIRED.

6. BICSII INSTALLER LEVEL 2 CERTIFICATION IS REQUIRED BY THE CONTRACTOR. TELECOMM DESIGNER SHALL HAVE RCDD CERTIFICATION. PROVIDE DOCUMENTATION OF ALL CERTIFICATIONS FOR ENGINEER REVIEW/APPROVAL PRIOR TO PROCUREMENT/INSTALLATION.

3

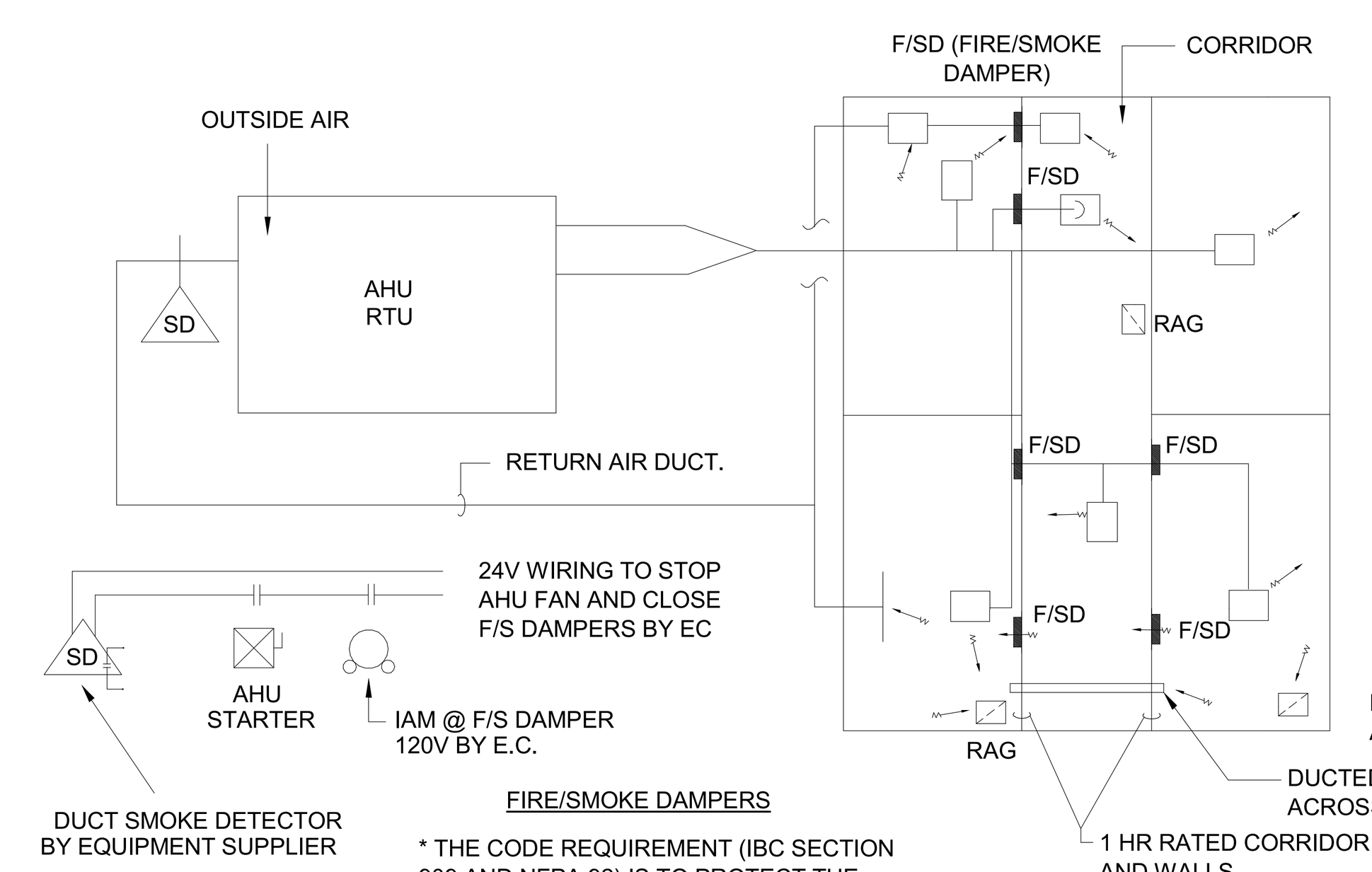
5 E-801 TYPICAL HORIZONTAL WIRING DIAGRAM
SCALE: N.T.S.



NOTES:

1. ADJACENT BOXES FOR TWO ROOMS SHALL BE INSULATED COMPLETELY AROUND BOX AIR SPACE AS INDICATED TO REDUCE SOUND TRANSMISSION THROUGH WALLS.

6 E-801 BACK TO BACK OUTLET SOUNDPROOFING DETAIL
SCALE: N.T.S.

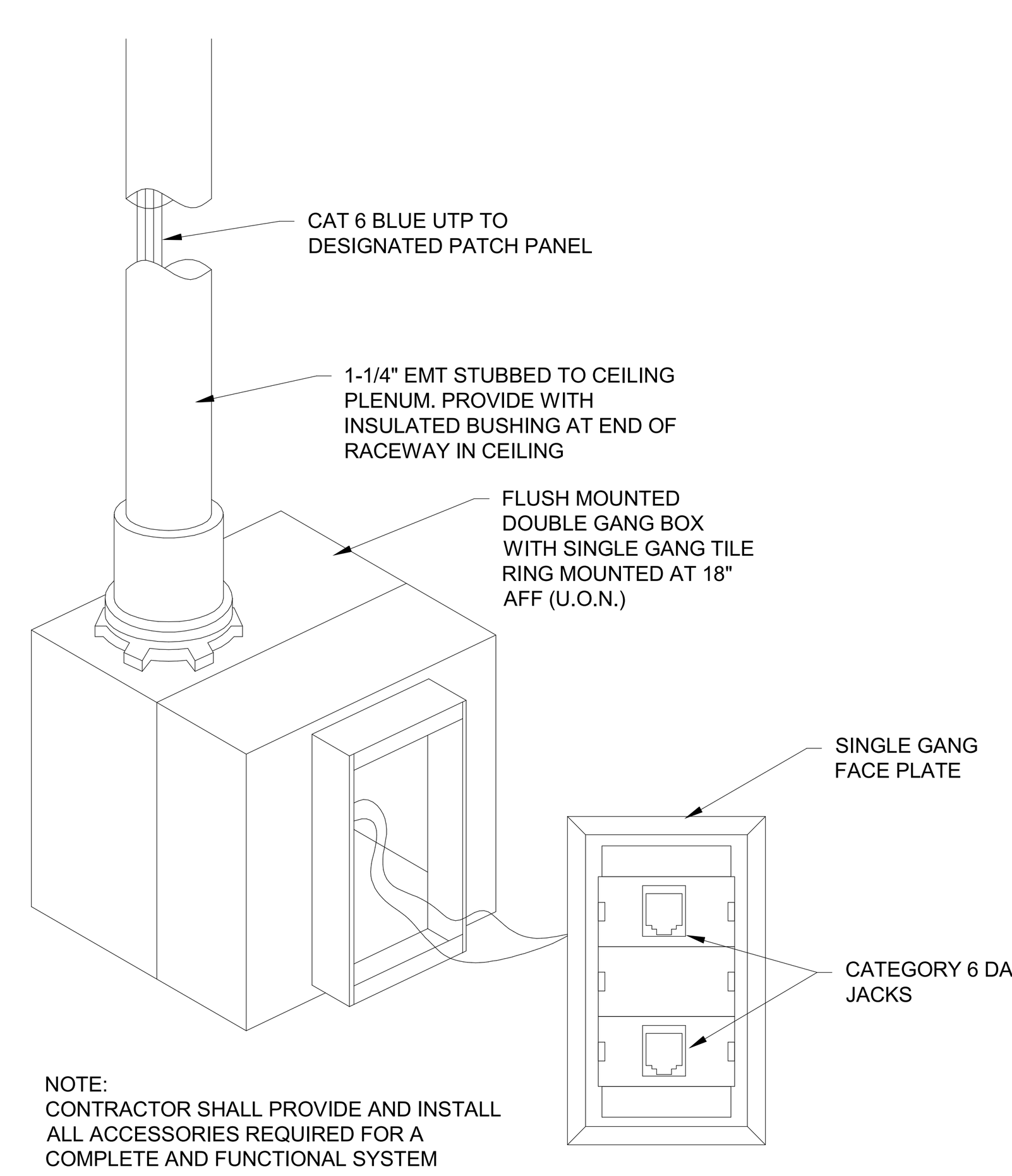


FIRE/SMOKE DAMPERS

* 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 E-801 TYPICAL FIRE-SMOKE DAMPER WIRING DETAIL
SCALE: N.T.S.

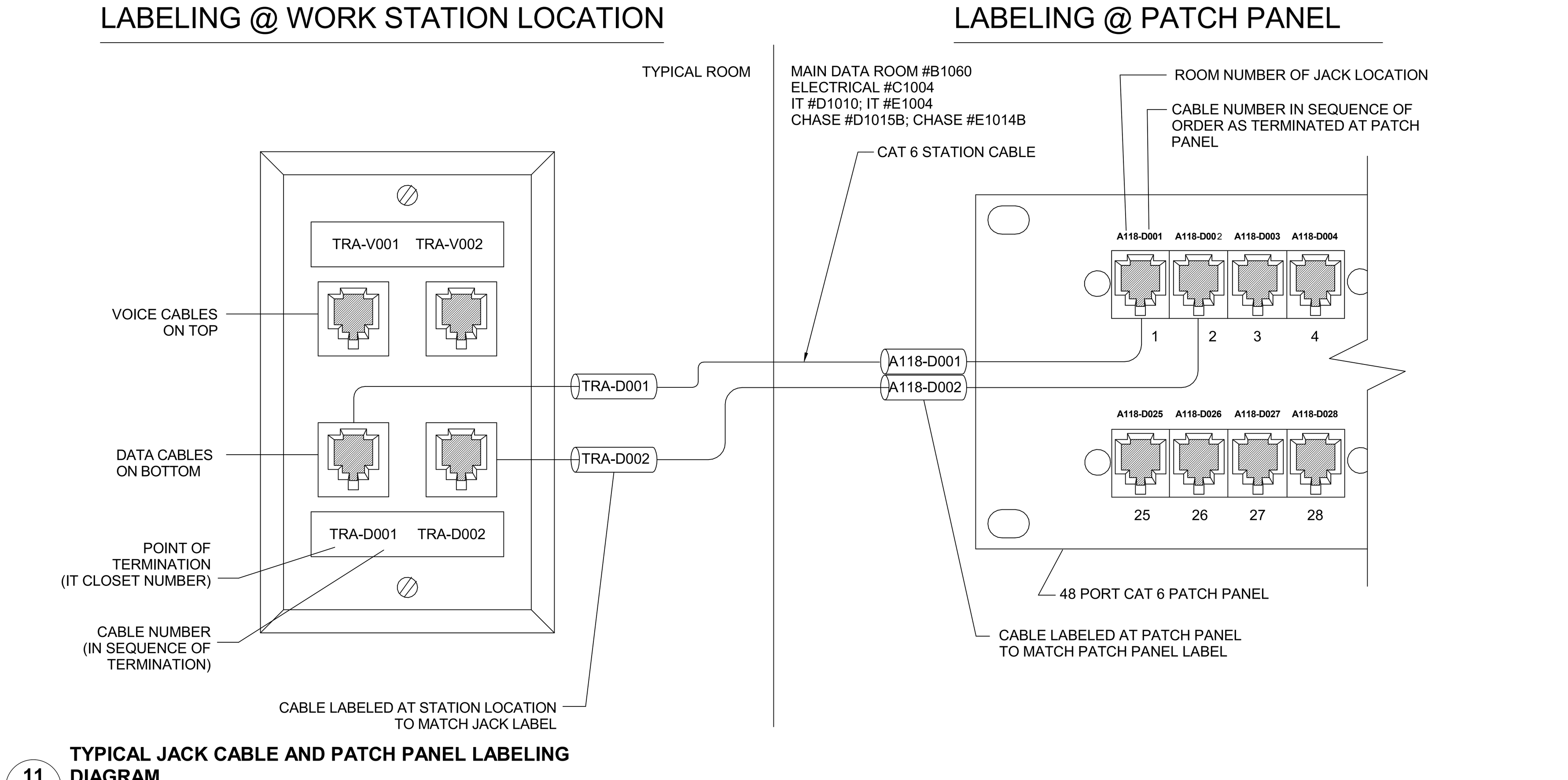


NOTE:
CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM

10 E-801 TYPICAL 2-PORT DATA DETAIL
SCALE: N.T.S.

LABELING @ WORK STATION LOCATION

LABELING @ PATCH PANEL



11 E-801 TYPICAL JACK CABLE AND PATCH PANEL LABELING DIAGRAM
SCALE: N.T.S.

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ARCHITECTURE • ENGINEERING • PLANNING
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DLZ INDIANA, LLC

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

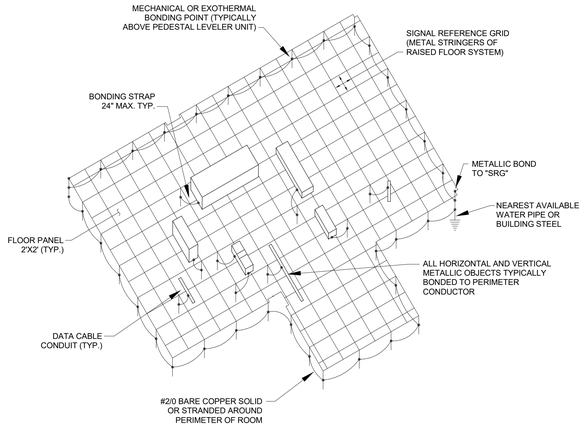
NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

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

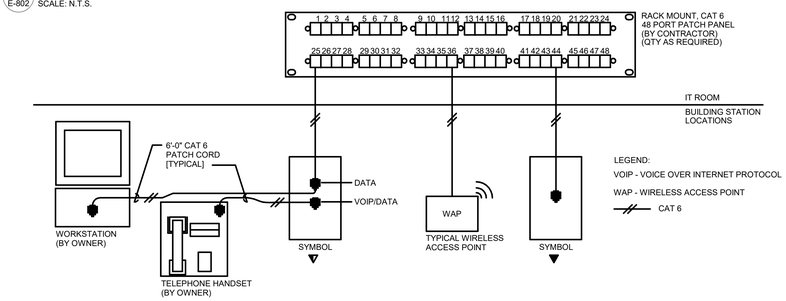
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

ELECTRICAL DETAILS

DRAWING NUMBER
E-801
ELECTRICAL



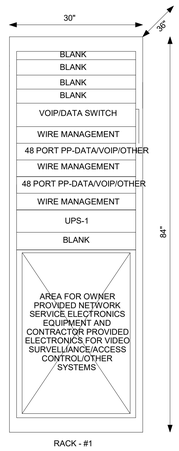
10 RAISED FLOOR GROUDING DETAIL
E-802 SCALE: N.T.S.



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. 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 SPECIFICATIONS.

9 STRUCTURED CABLING DETAIL - TYPICAL FOR EACH INTERMEDIATE DISTRIBUTION FRAME
E-802 SCALE: N.T.S.

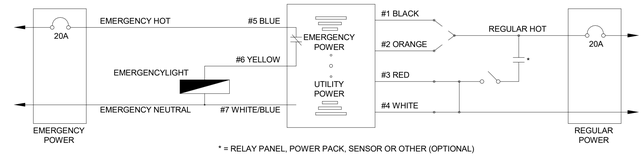


TELECOM EQUIPMENT SCHEDULE			
Mfr	Qty	Part No.	Device Description
MOHAWK	AS REQ'D	M58281	CAT 6 - BLUE - 1.000 FT BOX
PANDUIT	AS REQ'D	DP48688TG	48 PORT PATCH PANEL (CAT 6)
PANDUIT	AS REQ'D	UTPSP4xxx	CAT 6 PATCH CORD - BLUE - 48"
PANDUIT	AS REQ'D	UTPSP10xxx	CAT 6 PATCH CORD - BLUE - 10 FT
PANDUIT	AS REQ'D	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

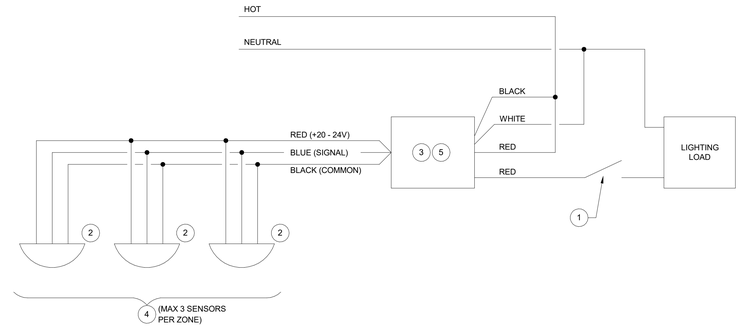
GENERAL NOTES:

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.
3 5. BICSI/RCDD CERTIFICATION IS REQUIRED. CONTRACTOR SHALL PROVIDE DOCUMENTATION.
6. REFER TO TYPICAL HORIZONTAL WIRING DIAGRAM, DETAIL #5 ON DRAWING E-801 FOR ADDITIONAL REQUIREMENTS.
7. FOR RACK MOUNTED EQUIPMENT PROVIDE SPACE, PATHWAY 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.

8 INTERMEDIATE DISTRIBUTION FRAME (IDF) (DATA RACK) (TYPICAL EACH IT ROOM)
E-802 SCALE: N.T.S.



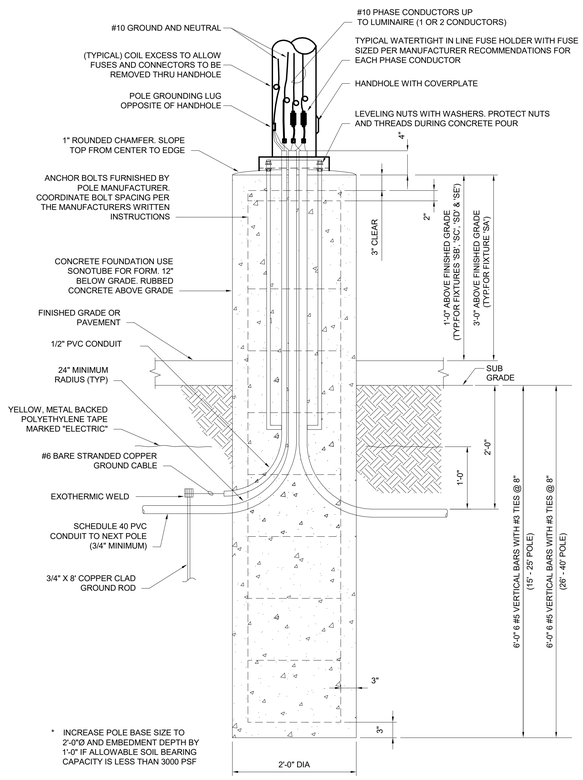
7 EMERGENCY POWER CONTROL MODULE WIRING DIAGRAM
E-802 SCALE: N.T.S.



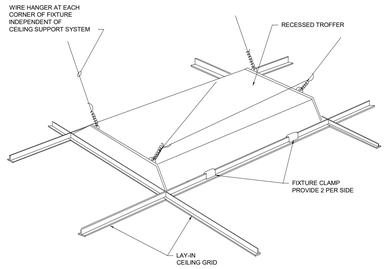
 # CODED NOTES:

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.

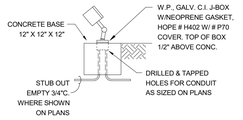
6 OCCUPANCY SENSOR WIRING DETAIL
E-802 SCALE: N.T.S.



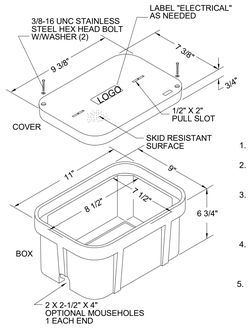
5 LIGHTING POLE FOUNDATION DETAIL
E-802 SCALE: N.T.S.



4 TYPICAL RECESSED FIXTURE MOUNTING DETAIL
E-802 SCALE: N.T.S.



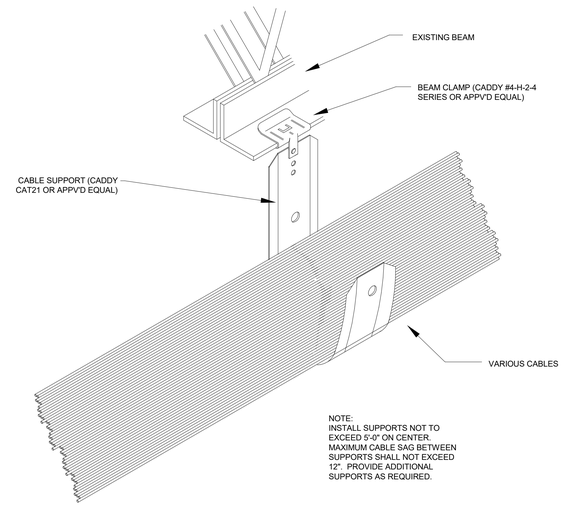
3 TYPICAL FLOOD LIGHT CONCRETE BASE DETAIL
E-802 SCALE: N.T.S.



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.

2 ELECTRIC HANDHOLE DETAIL
E-802 SCALE: N.T.S.



1 TYPICAL J-HOOK CABLE SUPPORT DETAIL
E-802 SCALE: N.T.S.

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DLZ INDIANA, LLC

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

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

DRAWN: ROW CHK'D: MLH
DESIGNED: ROW
APPV'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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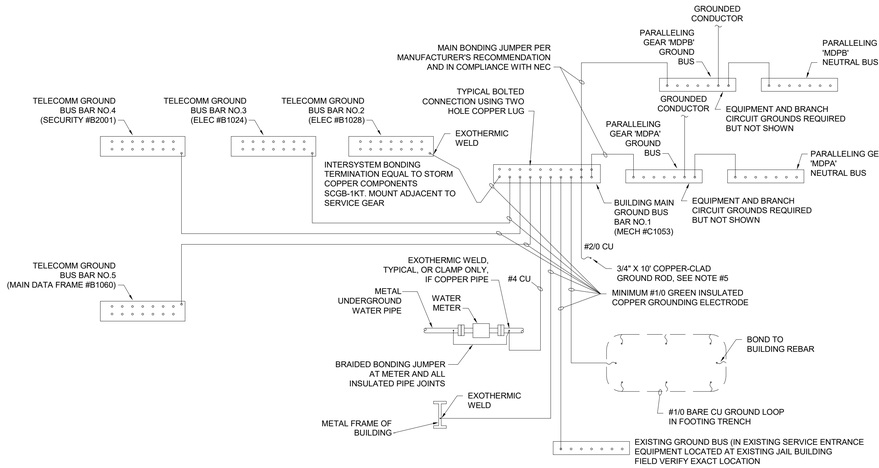
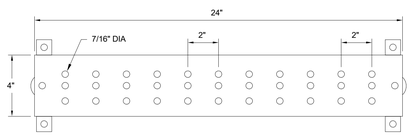


NOTES:

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.

3

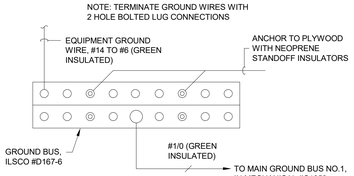
1 SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM SCHEMATIC
E-803 SCALE: N.T.S.



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.

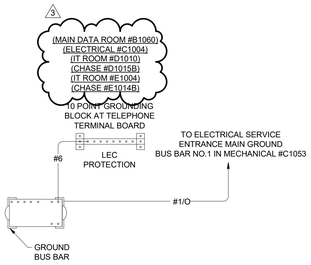
2 BUILDING GROUND BUS BAR DETAIL
E-803 SCALE: N.T.S.



NOTES:

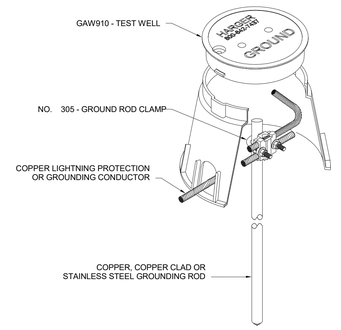
1. PROVIDE BRASS METAL NAME TAGS ON EACH GROUNDING CABLE INDICATING IDENTIFYING TAG OF EQUIPMENT BEING GROUNDED. TERMINATE GROUNDING CABLE WITH NEMA TWO-HOLE BOLTED LUG.

3 TYPICAL TELECOMM GROUND BUS DETAIL
E-803 SCALE: N.T.S.

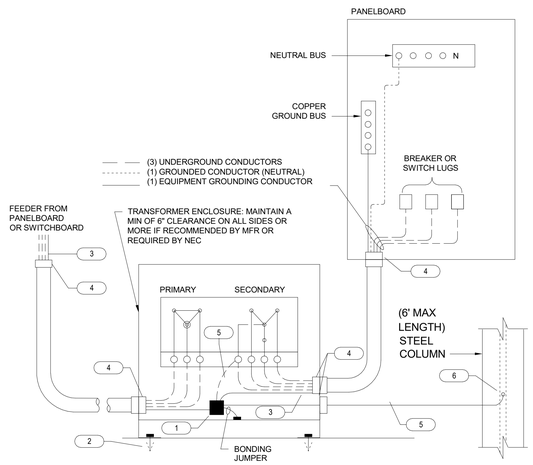


NOTE:
1. CONTRACTOR SHALL FIELD COORDINATE BEST LOCATION WITHIN EACH IT ROOM.

4 TELECOMMUNICATIONS GROUNDING DETAIL
E-803 SCALE: N.T.S.



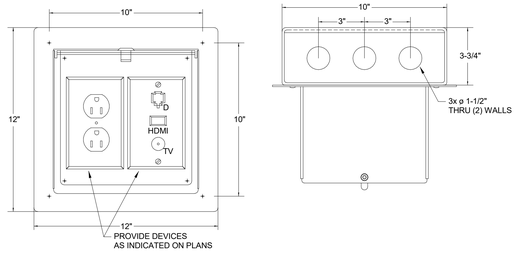
5 GROUND TEST WELL DETAIL
E-803 SCALE: N.T.S.

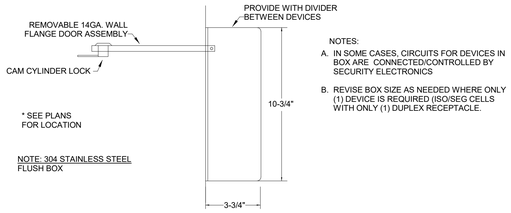


6 GROUNDING AT DISTRIBUTION TRANSFORMER DETAIL
E-803 SCALE: N.T.S.

x TRANSFORMER GROUNDING NOTES:

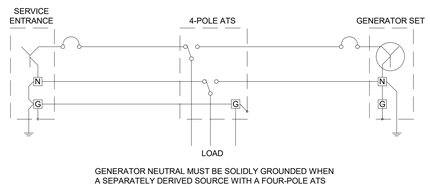
1. BOND TO TRANSFORMER FRAME WITH BURNDY KC CONNECTOR OR A/E APPROVED EQUAL (IF NONE PROVIDED).
2. BOLT SOLIDLY FOR TRANSFORMER WITH INTEGRAL CORE SOUND ISOLATION OR SOLID FILL OTHERWISE. SUPPORT ON KORFUND AND ISOLATION BOLTS. PROVIDE SUITABLE METAL FRAMING TO SUPPORT WALL OR CEILING MOUNTED UNIT.
3. 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.



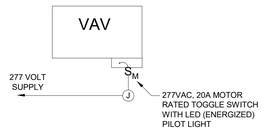


NOTES:
A. IN SOME CASES, CIRCUITS FOR DEVICES IN BOX ARE CONNECTED/CONTROLLED BY SECURITY ELECTRONICS
B. REVISE BOX SIZE AS NEEDED WHERE ONLY (1) DEVICE IS REQUIRED (ISO/SEG CELLS WITH ONLY (1) DUPLEX RECEPTACLE.

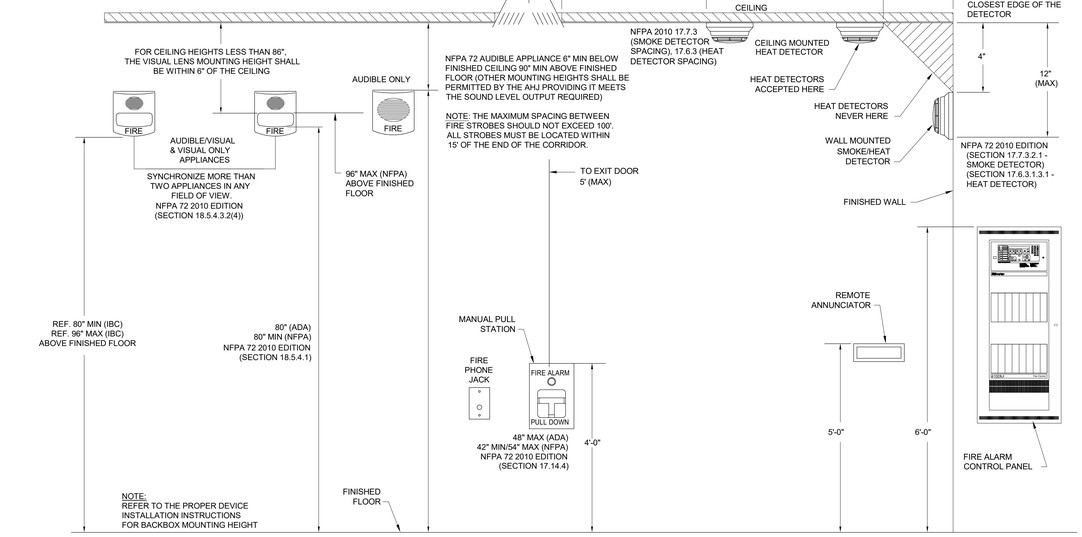
7 CUSTOM MOUNTED FLUSH BOX DETAIL
E-803 SCALE: N.T.S.



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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DLZ INDIANA, LLC

MARVIN L. REED HITCHCOCK 12/31/2019 PE60018675 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	REVISION	DATE
3	Addendum #03	09/26/19

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DESIGNED: RDW
APPRV'D: MLH
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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

ELECTRICAL DETAILS

DRAWING NUMBER E-803 ELECTRICAL

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GENERAL NOTES

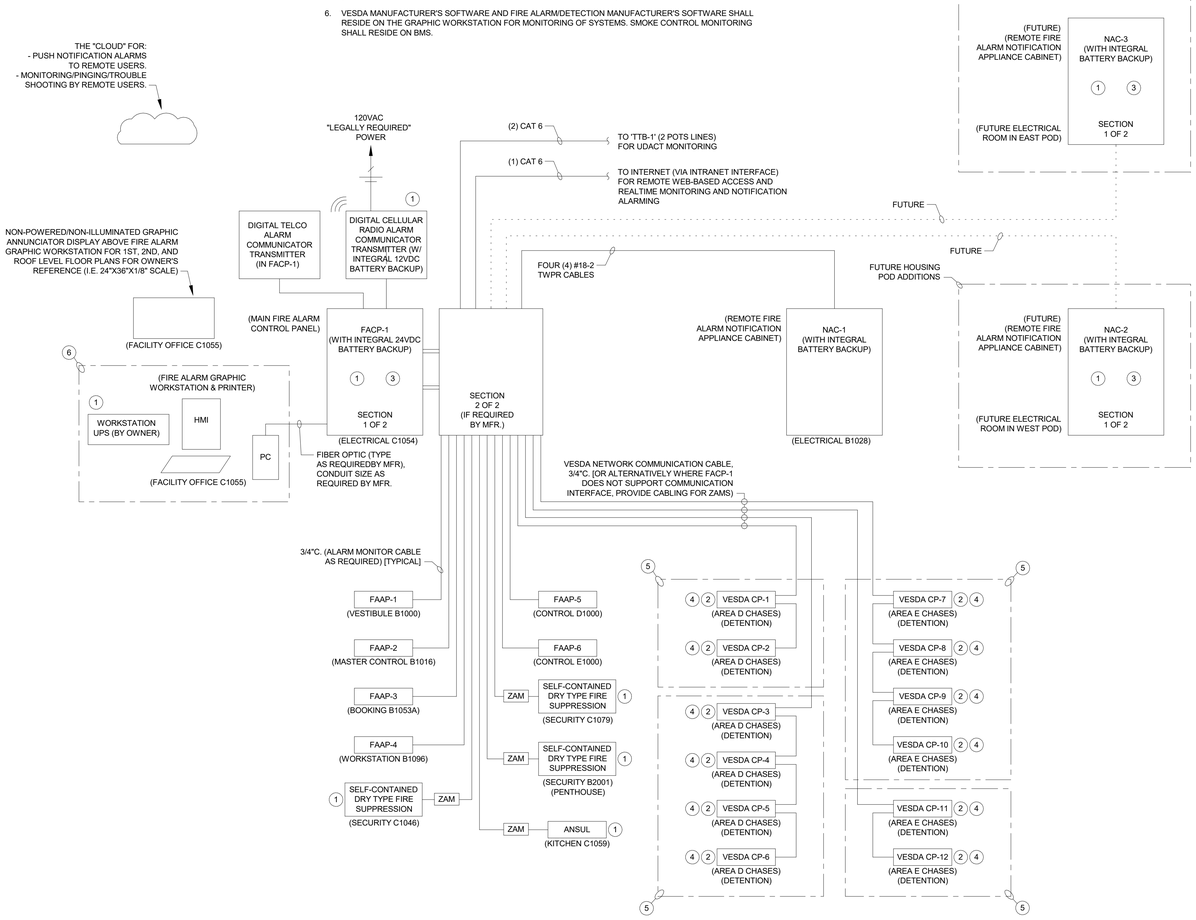
A. ALL NEW FIRE ALARM DETECTION AND NOTIFICATION DEVICES SHALL BE ADDRESSABLE.

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 FIRE ALARM NETWORK/COMMUNICATION DIAGRAM
E-804 SCALE: N.T.S.

FROM TELEPHONE UTILITY COMPANY
100 PAIR TRUNK CABLE
(N) 110 PUNCHDOWN BLOCK (ON TELEPHONE TERMINAL BOARD 'TTB-1' IT MAIN DATA FRAME ROOM #B1060
CAT 6 (TYPICAL)
RJ11 OUTLET (TYPICAL)
T T
T,T
FIRE ALARM CONTROL PANEL UDACT

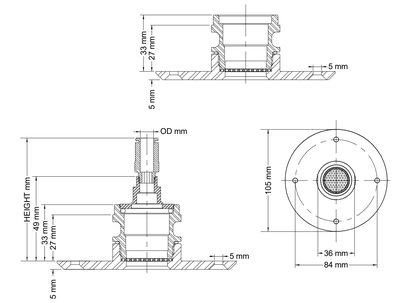
GENERAL NOTES

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.

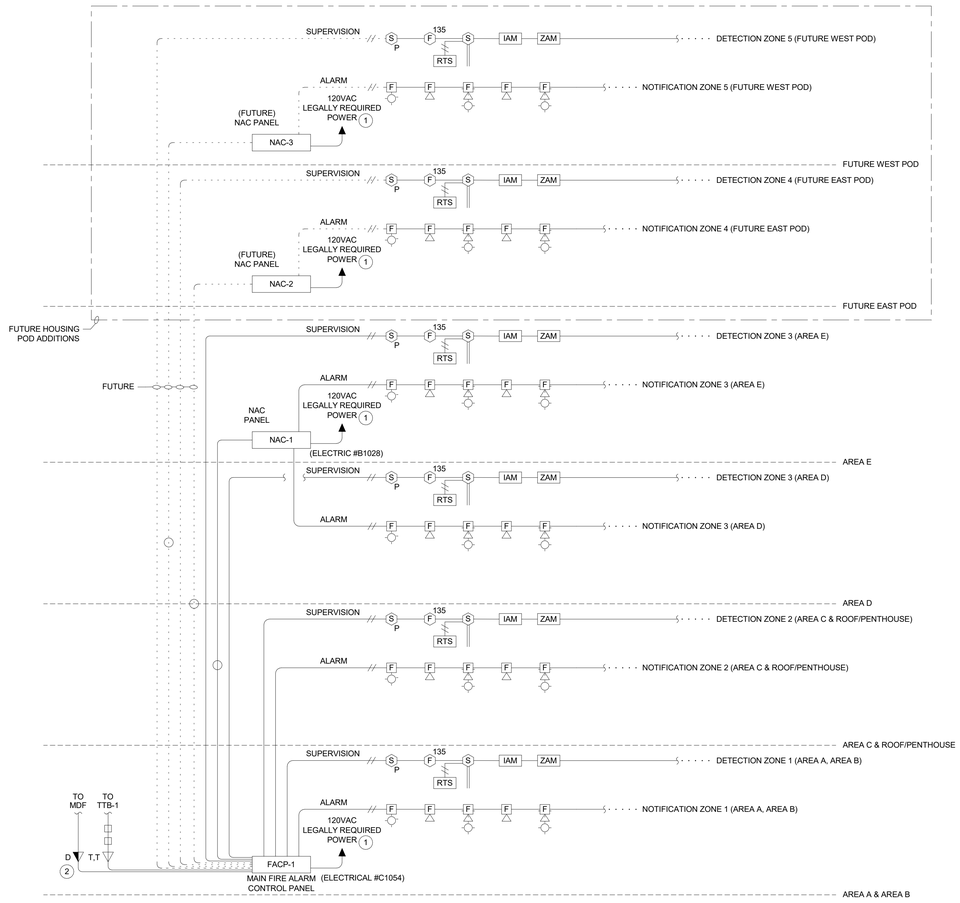
B. FOR WORKSTATIONS INDICATED, THE POTS SHALL SERVE AS BACK-UP TO VOIP.

C. PROVIDE FOR 10 POTS LINES/OUTLETS AT LOCATIONS AS DETERMINED BY OWNER. COORDINATE WITH OWNER PRIOR TO CONSTRUCTION.

3 PLAIN OLD TELEPHONE SYSTEM (POTS) RISER DIAGRAM
E-804 SCALE: N.T.S.



2 FLUSH MOUNT, TAMPER-PROOF ASPIRATING SMOKE DETECTOR SAMPLING PORT
E-804 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 FIRE ALARM/DETECTION SYSTEM RISER DIAGRAM
E-804 SCALE: N.T.S.

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DLZ INDIANA, LLC

MARVIN L. HITCHCOCK JR. STATE OF INDIANA PE60018675 PROFESSIONAL ENGINEER

NO.	REVISION	DATE
3	Addendum #03	09/26/19

DRAWN: RDW CHK'D: MLH
DESIGNED: RDW, TKF
APPR'VD: 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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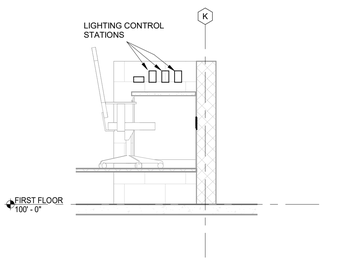
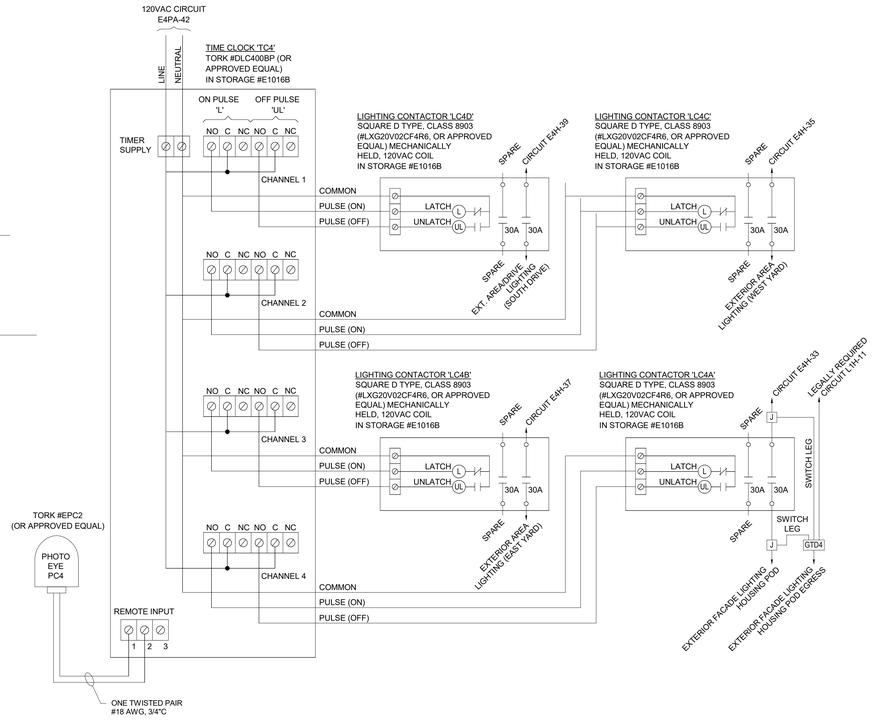
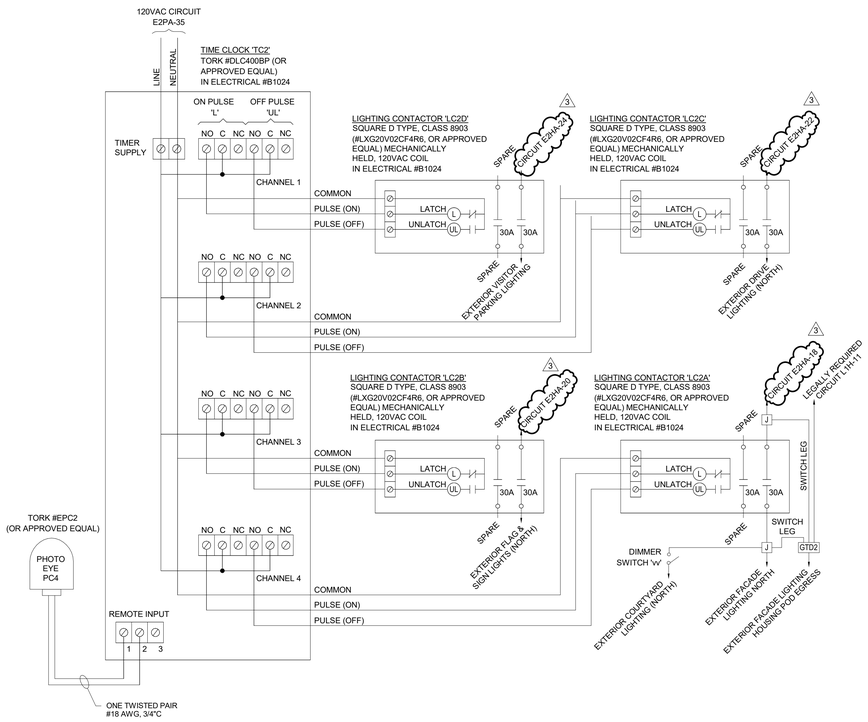


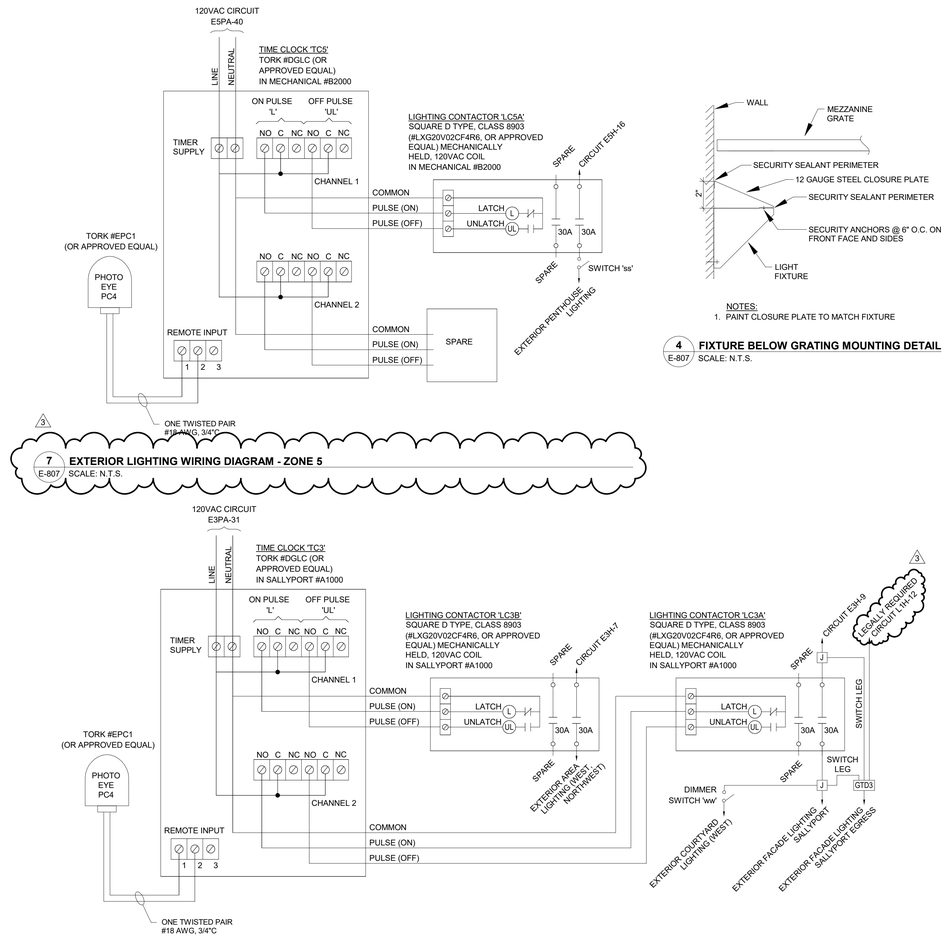
5 E-807 **INTAKE CENTER LIGHTING CONTROLS**
SCALE: 1/2" = 1'-0"



6 E-807 **EXTERIOR LIGHTING WIRING DIAGRAM - ZONE 4**
SCALE: N.T.S.

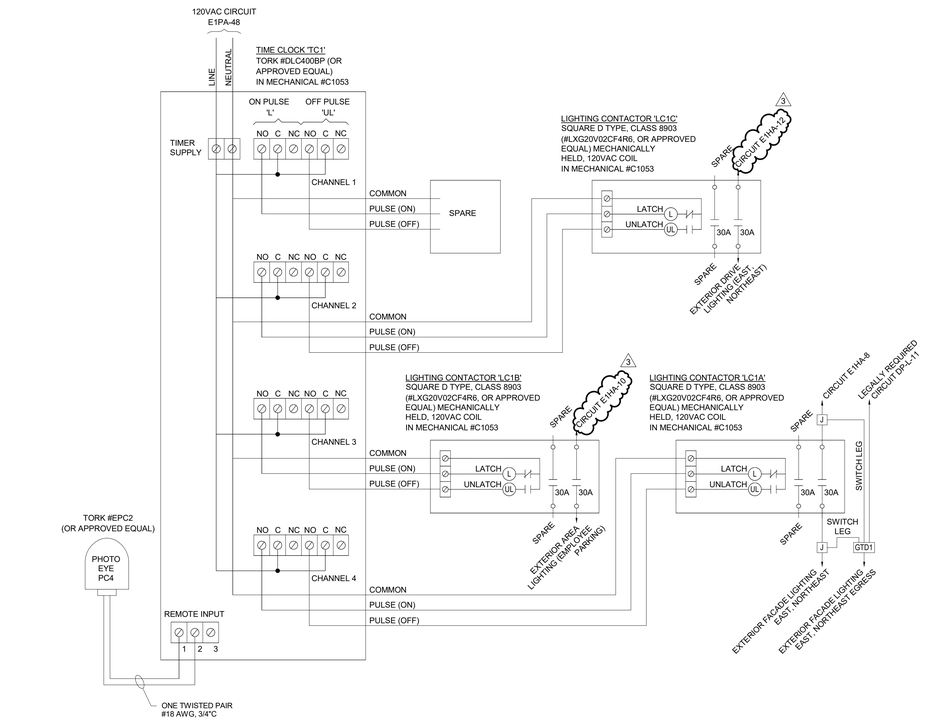


2 E-807 **EXTERIOR LIGHTING WIRING DIAGRAM - ZONE 2**
SCALE: N.T.S.



7 E-807 **EXTERIOR LIGHTING WIRING DIAGRAM - ZONE 5**
SCALE: N.T.S.

3 E-807 **EXTERIOR LIGHTING WIRING DIAGRAM - ZONE 3**
SCALE: N.T.S.



1 E-807 **EXTERIOR LIGHTING WIRING DIAGRAM - ZONE 1**
SCALE: N.T.S.

NOTES:
1. PAINT CLOSURE PLATE TO MATCH FIXTURE

4 E-807 **FIXTURE BELOW GRATING MOUNTING DETAIL**
SCALE: N.T.S.

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MARVIN L. HITCHCOCK, JR. — 10000 EAST 21ST STREET — INDIANAPOLIS, INDIANA 46229 — PE00018675 — STATE OF INDIANA — PROFESSIONAL ENGINEER

NO.	REVISION	DATE
1	Addendum #01	09/12/19
3	Addendum #03	09/26/19

DRAWN: RDW | CHK'D: MLH
DESIGNED: RDW
APPRV'D: MLH
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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

ELECTRICAL DETAILS

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