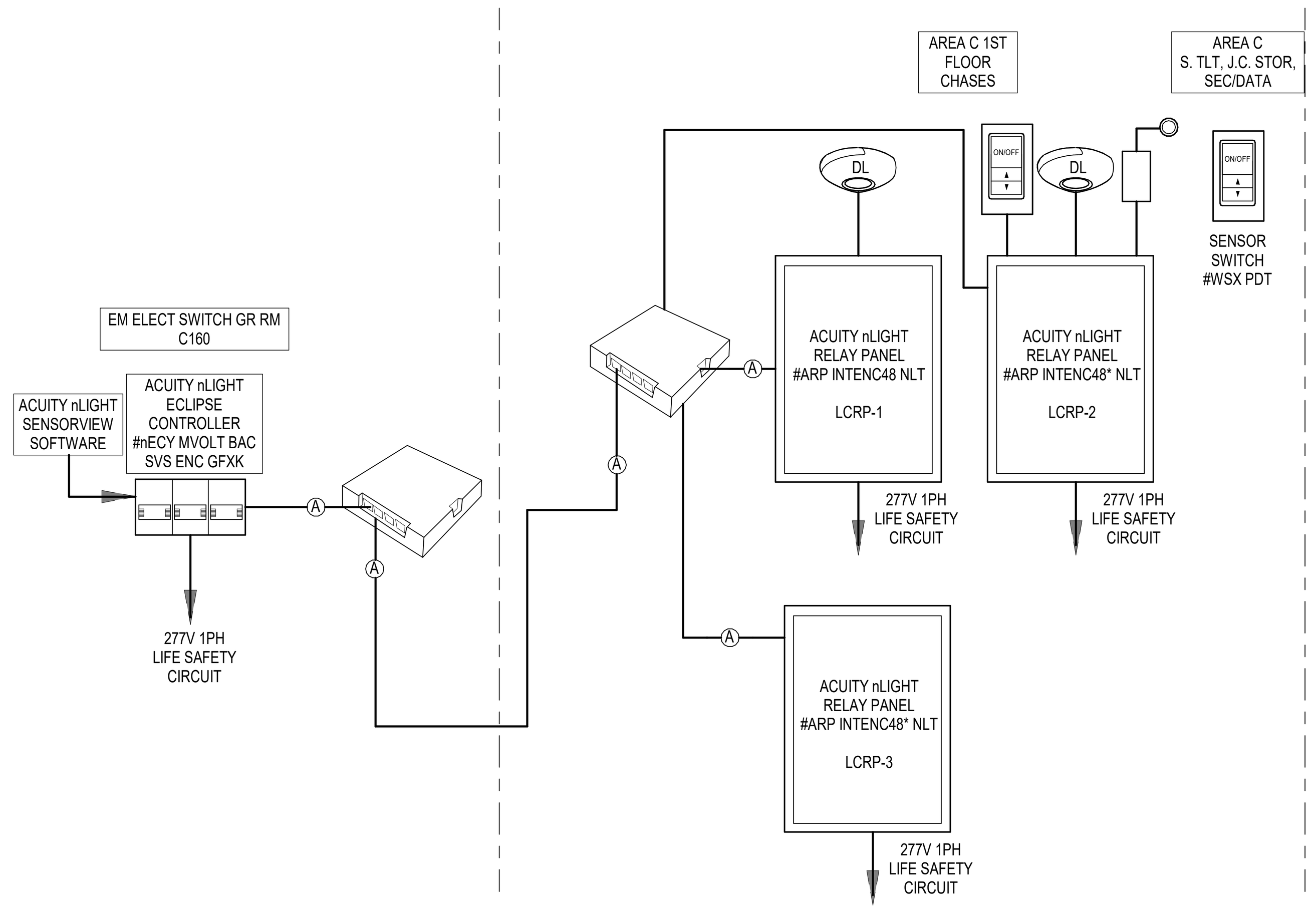


LIGHTING CONTROL BLOCK DIAGRAM

SCALE: NTS

LIGHTING CONTROLS SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHTING CONTROL BRIDGE nLIGHT #nBRG 8	S	ON/OFF SWITCH nLIGHT #nPODM
R	RECEPTACLE-RATED PLUG LOAD CONTROL POWER PACK nLIGHT #nPP20 PL	S_D	ON/OFF/ DIMMING WALL SWITCH nLIGHT #nPODM DX
ND	SWITCHING/ DIMMING RELAY POWER PACK - NORMAL CIRCUITS nLIGHT #nPP16D	$S_{D,VS}$	DUAL TECH VACANCY SENSOR ON/OFF/ DIMMING WALL SWITCH nLIGHT #nWSX PDT LV DX
ED	SWITCHING/ DIMMING RELAY POWER PACK UL924 EMERGENCY RELAY - EMERGENCY CIRCUITS nLIGHT #nPP16D-ER	S_{VS}	DUAL TECH VACANCY SENSOR ON/OF WALL SWITCH nLIGHT #nWSX PDT LV
N	SWITCHING POWER PACK - NORMAL CIRCUITS nLIGHT #nPP16	LCP	TOUCH SCREEN LIGHTING CONTROL PANEL, nLIGHT #nGWY2 GFX
E	SWITCHING POWER PACK UL924 EMERGENCY RELAY - EMERGENCY CIRCUITS nLIGHT #nPP16-ER		
OS	DUAL TECHNOLOGY OCCUPANCY/VACANCY SENSOR, nLIGHT #nCM PDT 9/10 RJB		OUTDOOR PHOTOCELL #ARPA PC
DL	DAYLIGHT SENSOR #NCM ADCX RHB/ NCM PC RJB	A	CAT 5E DATA CABLE
		ER	UL 924 EMERG SHUNT TRIP DUAL RELAY, ACUITY #GR2001 EMSHUNT-277-DUAL-NE1; SEE "BOOKING STATION B123A" BLOCK DIAGRAM BELOW FOR TYPICAL WIRING

BLOCK DIAGRAM COMPONENTS BASED ON CATALOG NUMBERS ABOVE, EXCEPT WHERE SPEICIFC CATALOG NUMBER IS LISTED BELOW COMPONENT ON BLOCK DIAGRAM

LIGHTING CONTROLS PROGRAMMING/COMMISSIONING REQUIREMENTS

AREA/ROOM COLOR CODE	PROGRAMMING/LIGHTING CONTROL DESCRIPTION	AREA/ROOM COLOR CODE	PROGRAMMING/LIGHTING CONTROL DESCRIPTION	SYMBOL	DESCRIPTION	SYSTEM COMPONENT SETTINGS
PURPLE ELEC ROOMS, MECH ROOMS, MAIN CONTROL ROOM, IT/SECURITY ELECTRONICS ROOMS, LIFE SAFETY STAIRS, CHASES	1. LIGHTING IS NOT CONTROLLED THROUGH nLIGHT BLDG LIGHTING CONTROL SYSTEM. 2. STAIRS: LIGHTING IS ON 24/7. 3. ALL OTHER ROOMS: LIGHTING IS CONTROLLED THROUGH LOCAL LINE VOLTAGE SWITCH(ES) AND IS NOT PART OF ANY BUILDING LIGHTING CONTROL SYSTEM, FOR SAFETY / SECURITY PURPOSES.	**GREEN** INMATE CELLS, DAYROOMS, DORMS, SHOWERS, INMATE CORRIDORS, ROVER STATIONS	1. LIGHTING ZONES ARE ON/OFF, CONTROLLED BY SECURITY SYSTEM THROUGH LIGHTING CONTROL RELAY PANELS. SEE SHEET E-802 FOR ZONES. 2. LIGHTING ON/OFF: CONTROLLED BY SECURITY SYSTEM. 3. PRELIMINARY PRE-SET DIMMING LEVELS PER ZONE ARE INDICATED ON RELAY SCHEDULES ON THIS SHEET. COORDINATE FINAL DESIRED PRE-SET DIMMING LEVELS WITH OWNER PRIOR TO END OF CONSTRUCTION. 4. LOCAL SWITCH(ES) @ ROVER DESKS: FOR MANUAL ON/OFF & DIMMING OF DESIGNATED LIGHTS OVER DESK. 5. DAYLIGHT SENSOR: FOR AUTOMATIC CONTROL OF LIGHTING FOR DIMMING FIXTURES WITHIN THE DAYROOM AREAS BASED ON DAYLIGHT LEVELS. ONCE DAYLIGHT SENSOR AUTOCALIBRATES IN THE ROOM, SET DAYLIGHT SENSOR TO DIM TO NO LESS THAN 1%, "FAST" DIMMING RATE.	OS S_{VS} $S_{D,VS}$	OCCUPANCY SENSOR/ VACANCY SENSOR - CEILING OR WALL	MAGENTA ZONES: AUTOMATIC ON AND AUTOMATIC OFF AFTER 10 MINUTES OF NO OCCUPANCY. RED ZONES: MANUAL ON THROUGH LOCAL SWITCH, AUTOMATIC OFF AFTER 10 MINUTES OF NO OCCUPANCY. BLUE ZONES: DISABLED DURING PROGRAMMED TIME-OF DAY SCHEDULE DURING NORMAL OPERATING HOURS, AUTOMATIC ON AFTER NORMAL OPERATING HOURS, AUTOMATIC OFF AFTER 10 MINUTES OF NO OCCUPANCY AFTER NORMAL OPERATING HOURS. MICROPHONIX SENSOR SETTINGS: OFF, LOW, MEDIUM, NORMAL - PROGRAMMED TO BE SET TO "NORMAL"
YELLOW EXTERIOR ROADWAY POLE LIGHTS, EXTERIOR BLDG LIGHTING,	1. EXTERIOR LIGHTING IS CONTROLLED THROUGH nLIGHT BLDG LIGHTING CONTROL SYSTEM. 2. ZONE EX-1 (POLE LTS): AUTOMATIC ON THROUGH SYSTEM PHOTOCELL AT DUSK, OFF AT DAWN THROUGH SYSTEM PHOTOCELL. ZONE EX-2 (BLDG LTS): AUTOMATIC ON THROUGH SYSTEM PHOTOCELL AT DUSK, OFF AT DAWN THROUGH SYSTEM PHOTOCELL.			DL	DAYLIGHT SENSOR - CEILING	DAYROOM GREEN ZONES: - AUTOMATIC CALIBRATION IN EACH SPACE FOR INITIAL PROGRAMMING - MINIMUM AUTOMATIC DIMMING LEVEL SET TO NO LESS THAN 0% OF LIGHT OUTPUT (SUFFICIENT DAYLIGHT WOULD TURN LIGHTS OFF) - DIMMING RATE SETTINGS: SLOWEST, SLOW, NORMAL, FAST, FASTEST - PROGRAMMED TO BE SET TO "FAST"
		ORANGE STORAGE, J.C, S. TOILET	1. LIGHTING IS NOT CONTROLLED THROUGH nLIGHT LIGHTING CONTROL SYSTEM. LIGHTS ARE TO BE LOCALLY CONTROLLED PER BLOCK DIAGRAM COMPONENTS SHOWN ABOVE AND DESCRIPTIONS IN PARAGRAPH 2 & 3 BELOW, OR BY LOCAL LINE VOLTAGE SWITCH, IF NOT INDICATED ON THE BLOCK DIAGRAM 2. LIGHTING ON: MANUAL ON THROUGH LOCAL SWITCH(ES) WHERE NO OCCUPANCY SENSOR SHOWN; AUTOMATIC ON WHERE OCCUPANCY SENSOR INDICATED.. 3. LIGHTING OFF: MANUAL OFF WHERE NO OCCUPANCY SENSOR INDICATED; AUTOMATIC OFF THROUGH ROOM OCCUPANCY SENSOR(S) AFTER 10 MINUTES OF NO OCCUPANCY WHERE OCCUPANCY SENSORS INDICATED	PROGRAMMED TIME-OF-DAY SCHEDULE: (BLUE ZONE ONLY IN AREA A ADMIN) PRELIMINARY PROGRAMMING FOR THE TIME-OF-DAY SCHEDULE FOR NORMAL OPERATING HOURS IS TO BE FROM 7AM TO 7PM MONDAY THROUGH FRIDAY. ALL OTHER DAYS AND TIMES SHALL BE CONSIDERED "AFTER NORMAL OPERATING HOURS" FOR THE PURPOSES OF PROGRAMMING DESCRIPTIONS. COORDINATE OWNER-DIRECTED TIME OF DAY SCHEDULE AT END OF CONSTRUCTION AND CORRECT PROGRAMMING AS REQUIRED. EMERGENCY: ALL FIXTURES IN LIGHTING CONTROLS ZONES PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK OR CIRCUITED TO LIFE SAFETY LIGHTING PANEL, SHALL ENERGIZE TO FULL BRIGHTNESS UPON TRANSFER TO ATS TO EMERGENCY (STANDBY GENERATOR), REGARDLESS OF STATUS OF LIGHTING CONTROL SYSTEM AND COMPONENTS		

GENERAL:

1. BASIS OF DESIGN: ACUITY nLIGHT LIGHTING CONTROL SYSTEM; ACCEPTABLE ALTERNATE MANUFACTURER: DOUGLAS LIGHTING CONTROLS (CONTINGENT ON MEETING OR EXCEEDING SAME REQUIREMENTS AS BASIS OF DESIGN SELECTION)
2. LIGHTING CONTROL SYSTEM IS TIME-BASED BASED ON PROGRAMMED TIME-OF-DAY SCHEDULE FOR NORMAL OPERATING HOURS, SENSOR-BASED (DAYLIGHT SENSORS AND OCCUPANCY CONTROL) AND MANUAL LIGHTING CONTROL (LOCAL ON/OF/DIMMING), AS WELL AS INTERFACE WITH THE SECURITY ELECTRONICS SYSTEM.
3. THE SYSTEM SHALL BE CAPABLE OF TURNING RECEPTACLE CIRCUITS ON/OFF AND LIGHTING LOADS ON/OFF AS WELL AS DIMMING LIGHTS (IF LIGHTING LOAD IS CAPABLE OF BEING DIMMED).
4. DEVICES ON THE CAT5 NETWORK MAY BE PLACED IN ANY ORDER. TYPICAL AND SPECIFIC RISERS PROVIDED ARE FOR GENERAL DESIGN INTENT ONLY AND ARE NOT INTENDED TO BE A POINT-TO-POINT DIAGRAM AND SHOULD NOT BE TAKEN AS SUCH.
5. THE ARCHITECTURE ON THE BLOCK DIAGRAM IS INTENDED TO BE USED AS A TYPICAL BLOCK DIAGRAM SHOWING SYSTEM ARCHITECTURE. SEE LIGHTING PLANS AND LIGHTING CONTROL RELAY SCHEDULES FOR COUNTS OF OCCUPANCY SENSORS, DAYLIGHT SENSORS AND SWITCHES.
6. SYSTEMS DEVICES FOR AREAS INDICATED ON THE LIGHTING CONTROL BLOCK DIAGRAMS OR DEFINED BY THE PROGRAMMING/COMMISSIONING REQUIREMENTS IN THE TABLE ABOVE, SHALL BE NETWORKED TOGETHER ENABLING DIGITAL COMMUNICATION AND SHALL BE INDIVIDUALLY ADDRESSABLE.
7. THE SYSTEM ARCHITECTURE SHALL BE CAPABLE OF ENABLING STAND-ALONE GROUPS (ROOMS) OF DEVICES TO FUNCTION IN SOME DEFAULT CAPACITY EVEN IF NETWORK CONNECTIVITY TO THE GREATER SYSTEM IS LOST.
8. THE SYSTEM ARCHITECTURE SHALL FACILITATE REMOTE OPERATION VIA A COMPUTER CONNECTION, WIFI CONNECTION THROUGH PORTABLE TABLET OR SMART PHONE APP.
9. THE SYSTEM SHALL NOT REQUIRE ANY CENTRALLY-HARDWIRED SWITCHING EQUIPMENT. SYSTEM SHALL BE BACnet COMPATIBLE.
10. TIME-OF-DAY SCHEDULE PROGRAMMING AND IINCORPORATION OF ALL COMPONENTS (OCCUPANCY SENSORS, LOW VOLTAGE SWITCHES, DAYLIGHT SENSORS, OUTDOOR PHOTOCELL SENSORS, CONTACTORS, RELAY PANELS, ETC.) SHALL BE COORDINATED WITH OWNER, ENGINEER, CONTRACTOR AND LIGHTING CONTROLS SYSTEMS INTEGRATOR, AS PART OF REQUIRED SHOP DRAWING SUBMITTAL PROCESS, TO BE DEVELOPED AND CONFIRMED DURING PRODUCT SUBMITTAL REVIEW AND DIRECTION FROM OWNER. FINAL PROGRAMMING, SEQUENCE OF OPERATION, COMPONENT SETTINGS, ETC. IS TO BE DOCUMENTED AT THE END OF CONSTRUCION ON O&M INFORMATION TURNED OVER TO THE OWNER.
11. OCCUPANCY SENSORS THAT ARE PART OF THE BUILDING LIGHTING CONTROL SYSTEM INDICATED BY THE BLOCK DIAGRAMS AND PROGRAMMING/COMMISSIONING REQUIREMENTS SHALL BE PROGRAMMED TO OVERRIDE AREAS OR SPACES CONTROLLED THROUGH TIME-OF-DAY SCHEDULE TO ENERGIZE LIGHTS IN THE AREA AFTER HOURS TO ENERGIZE LIGHTS UPON SENSING OCCUPANCY THROUGH THE LOCAL OCCUPANCY SENSORS.
12. WHERE LOCAL SWITCHES ARE INDICATED IN CONJUNCTION WITH OCCUPANCY SENSOR CONTROL OF SPACE, SWITCHES ARE FOR LOCAL ON/OFF OR DIMMING CONTROL OF SPACE.
13. ALL OCCUPANCY SENSORS ARE TO BE PASSIVE INFRARED/MICROPHONIX TECHNOLOGY. ULTRASONIC IS NOT ACCEPTABLE. OCCUPANCY SENSOR LOCATIONS SHOWN ON LIGHTING PLANS ARE DIAGRAMMTIC ONLY FOR DESIGN INTENT. QUANTITY AND LOCATIONS ARE TO BE BASED ON ACTUAL COVERAGE OF FINAL MANUFACTURER'S RECOMMENDATIONS. PLACEMENT IS TO BE COORDINATED WITH OTHER CEILING DEVICES (LIGHTS, AIR DIFFUSERS, SPRINKLERS, SPEAKERS, ETC.) AND ADJUSTED AS NECESSARY. OCCUPANCY SENSORS ARE NOT TO BE PLACED DIRECTLY OVER THE TOP OF A WORKSTATION OR DESK. COORDINATE WITH FURNITURE PLANS PRIOR TO PLACEMENT.
14. ONCE DAYLIGHT SENSORS AUTO-CALIBRATE WITHIN THEIR AREA OR SPACE AFTER INSTALLATION, THEY ARE TO BE INITIALLY SET TO DIM LIGHTS WITHIN THE DAYLIGHTING ZONE TO NO LESS THAN 0% OF FULL OUTPUT (FIXTURES ALLOWED TO TURN OFF IF SUFFICIENT DAYLIGHT IS AVAILABLE).
15. BLOCK DIAGRAM ARE INTENDED TO SHOW GENERAL DESIGN INTENT OF COMPONENTS REQUIRED FOR TYPICAL SPACES. PROVIDE CORRECT QUANTITIES OF COMPONENTS BASED ON LIGHTING PLANS & POWER PLANS (FOR CONTROLLED RECEPTACLE CIRCUITS), SWITCHING CONFIGURATIONS AND CIRCUITING SHOWN ON DRAWINGS (POWER PACKS, SWITCHES, OCCUPANCY & DAYLIGHT SENSORS, ETC.).

SUBMITTALS:

1. PRODUCT DATA SHEETS INCLUDING ALL DEVICES, DIMENSIONS, WIRING DETAILS, NOMENCLATURE.
2. RISER/BLOCK DIAGRAMS INCLUDING DETAILED DRAWINGS SHOWING DEVICE INTERCONNECTIVITY.
3. 1/8" SCALED PLANS SHOWING ALL LIGHT FIXTURES AND LIGHTING CONTROL COMPONENT LOCATIONS IN THEIR INTENDED LOCATION FOR INSTALLATION PURPOSES (POWER PACKS, RELAY PANELS, SWITCHES, OCCUPANCY SENSORS, DAYLIGHT SENSORS, LIGHTING CONTROL PANEL, NETWORK BRIDGES, ETC.), INTERCONNECTIVITY OF WIRING, TYPE OF WIRING, AND MATCHING COLOR-CODED ZONES, DESCRIPTIONS OF SETTINGS AND PROGRAMMING.
4. OTHER DIAGRAMS AS NEEDED FOR SPECIAL OPERATION OR INTERFACE WITH OTHER SYSTEMS (BUILDING AUTOMATIC SYSTEM).
5. EXAMPLE CONTRACTOR STARTUP/COMMISSIONING WORKSHEET MUST BE COMPLETED PRIOR TO FACTORY START-UP.
6. HARDWARE AND SOFTWARE OEPRATION MANUALS.

WARRANTY: ALL DEVICES IN LIGHTING CONTROL SYSTEM SHALL HAVE A 5-YEAR WARRANTY, STARTING FROM THE DATE OF SUBSTANTIAL COMPLETION INSPECTION.

COORDINATION: CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES, AND WITH DESIGN INTENT INDICATED ON DRAWINGS AND IN SPECIFICATIONS.

START-UP & TRAINING:

1. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE FOR PRE-FUNCTIONAL AND FUNCTIONAL COMMISSIONING OF THE COMPLETE SYSTEM PRIOR TO FINAL COMPLETION. AFTER PRELIMINARY PROGRAMMING AND SETTINGS HAVE BEEN COMPLETED, BASED ON DESIGN INTENT INDICATED IN DRAWINGS AND SPECIFICATIONS, THIS SHALL INCLUDE, ON A ROOM-BY-ROOM AND AREA BASIS, ADJUSTMENT OF DAYLIGHT SENSOR AND OCCUPANCY SENSOR SETTINGS, ZONE DIMMING LEVELS, ETC., WHICH SHALL BE DONE IN THE PRESENCE OF THE ARCHITECT/ ENGINEER/ OR OWNER'S REPRESENTATIVE.
2. PROVIDE A FACTORY-AUTHORIZED REPRESENTATIVE TO TRAIN THE OWNER-DESIGNATED REPRESENTATIVE ON THE COMPONENTS, FUNCTIONS, OPERATION AND PROGRAMMING OF THE SYSTEM FOR A MINIMUM OF EIGHT (8) HOURS IN TWO FOUR-HOUR INCREMENTS, DURING NORMAL OWNER BUSINESS HOURS, TO BE SCHEDULED WITH THE OWNER, AFTER THE SYSTEM IS COMPLETELY INSTALLED, PROGRAMMED, INTERFACED WITH ANY OTHER SYSTEMS (BAS), AND TESTED, AT THE END OF CONSTRUCTION.

AS-BUILT DOCUMENTATION:

1. AS-BUILT DOCUMENTATION SHALL BE PROVIDED TO THE OWNER AT THE END OF CONSTRUCTION THAT INDICATES ACTUAL LOCATIONS OF ALL DEVICES AND COMPONENTS AS INSTALLED, INTERCONNECTIVITY OF DEVICES, ON 1/8" SCALED LIGHTING PLANS, AS WELL AS DOCUMENTED TIME-OF-DAY SCHEDULE, SPECIFIC SETTINGS ON EACH DEVICE.

LIGHTING CONTROL ZONE/RELAY SCHEDULE LIGHTING CONTROL RELAY PANEL LCRP-1

AREA	ZONE	RELAY #	CIRCUIT #	ZONE DESCRIPTION	CONTROL DESCRIPTION	REMARKS
AREA C INMATE HOUSING DAYROOM C132/CELLS	C1-1	C1-R1	1OPL1-4	SEG CELL C136 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C1-2	C1-R2	1OPL1-4	SEG CELL C136 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C1-3	C1-R3	1OPL1-4	SEG CELL C135 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C1-4	C1-R4	1OPL1-4	SEG CELL C135 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C1-5	C1-R5	1OPL1-4	SEG CELL C134 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C1-6	C1-R6	1OPL1-4	SEG CELL C134 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C1-7	C1-R7	1OPL1-4	ADA SEG CELL C133 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C1-8	C1-R8	1OPL1-4	ADA SEG CELL C133 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C1-9	C1-R9	1OPL1-4	DAYROOM C132 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
		C1-R10	1LSL1-4	DAYROOM C132 - EMERG. LIGHTS		
	C1-10	C1-R11	1OPL1-4	SEG CELL C223 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C1-11	C1-R12	1OPL1-4	SEG CELL C223 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C1-12	C1-R13	1OPL1-4	SEG CELL C222 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C1-13	C1-R14	1OPL1-4	SEG CELL C222 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C1-14	C1-R15	1OPL1-4	SEG CELL C221 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C1-15	C1-R16	1OPL1-4	SEG CELL C221 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C1-16	C1-R17	1OPL1-4	SEG CELL C220 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C1-17	C1-R18	1OPL1-4	SEG CELL C220 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C1-18	C1-R19	1R3-1	DAYROOM C132 TV RECEPTACLE	ON/OFF THRU SECURITY SYSTEM	
AREA C INMATE HOUSING DORM C138/C225	C1-19	C1-R20	1OPL1-4	SHOWER C139 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 100%
		C1-R21	1LSL1-4	SHOWER C139 - EMERG. LIGHTS		
	C1-20	C1-R22	1OPL1-4	DORM C138 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
		C1-R23	1LSL1-4	DORM C138 - EMERG. LIGHTS		
	C1-21	C1-R24	1OPL1-4	DORM C138/C225 DAYROOM - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
		C1-R25	1LSL1-4	DORM C138/C225 DAYROOM - EMERG. LIGHTS		
	C1-22	C1-R26	1OPL1-4	SHOWER C224 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 100%
		C1-R27	1LSL1-4	SHOWER C224 - EMERG. LIGHTS		
	C1-23	C1-R28	1OPL1-4	DORM C225 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
		C1-R29	1LSL1-4	DORM C225 - EMERG. LIGHTS		
	C1-24	C1-R30	1R3-3	DORM C138/C225 DAYROOM TV RECEPTACLE	ON/OFF THRU SECURITY SYSTEM	
AREA C INMATE HOUSING C141/CELLS	C1-25	C1-R31	1OPL1-5	4 MAN CELLS C142-C146/C226-C230 - OPTIONAL LTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C1-26	C1-R32	1OPL1-5	4 MAN CELLS NIGHT LIGHT C142-C146/C226-C230	ON/OFF THRU SECURITY SYSTEM	
	C1-27	C1-R33	1OPL1-5	DAYROOM C141 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
		C1-R34	1LSL1-4	DAYROOM C141/SV C140 - EMERG. LIGHTS		
	C1-28	C1-R35	1R3-4	DAYROOM C141 TV RECEPTACLE	ON/OFF THRU SECURITY SYSTEM	
		C1-R36	1R3-5	DAYROOM C141 TV RECEPTACLE		
EXTERIOR LIGHTS	EX-1	C1-R37	1OPL1-14	EXTERIOR ENTRANCE FLAGPOLE LIGHTS	ON/OFF THRU BLDG LTG CONTROL SYSTEM	
	EX-2	C1-R38,R39	1OPL1-10,12	EXTERIOR PARKING LOT/ ROADWAY LIGHTS	ON/OFF THRU BLDG LTG CONTROL SYSTEM	480V/1 2-POLE RELAYS
		C1-R40,R41	1OPL1-18,20	EXTERIOR PARKING LOT/ ROADWAY LIGHTS		
	EX-3	C1-R42	1OPL1-8	EXTERIOR LIGHTS - AREA A & C - OPTIONAL	ON/OFF THRU BLDG LTG CONTROL SYSTEM	ZONED WITH AREA A,B,D EXTER. BLDG LTS
		C1-R43	1LSL1-6	EXTERIOR LIGHTS - AREA C - EMERGENCY LTS		
	EX-4	C1-R44	1LSL1-?	EXTERIOR MAIN ENTRANCE SOFFIT LTS - EMERG.	ON/OFF THRU BLDG LTG CONTROL SYSTEM	
		C1-R45	1OPL1-?	EXTERIOR MAIN ENTRANCE SOFFIT LTS - OPTIONAL		
	EX-5	C1-R46	1OPL1-16	EXTERIOR SIDEWALK BOLLARD LIGHTS	ON/OFF THRU BLDG LTG CONTROL SYSTEM	
		C1-R47		SPARE		
		C1-R48		SPARE		

LIGHTING CONTROL ZONE/RELAY SCHEDULE LIGHTING CONTROL RELAY PANEL LCRP-2

AREA	ZONE	RELAY #	CIRCUIT #	ZONE DESCRIPTION	CONTROL DESCRIPTION	REMARKS
AREA C INMATE HOUSING DORM C149/C232	C2-1	C2-R1	1OPL1-5	SHOWER C149 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 100%
		C2-R2	1LSL1-4	SHOWER C149 - EMERG. LIGHTS		
	C2-2	C2-R3	1OPL1-5	DORM C148 -OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
		C2-R4	1LSL1-4	DORM C148 - EMERG. LIGHTS		
	C2-3	C2-R5	1OPL1-5	DORM C148/C231 DAYROOM - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
		C2-R6	1LSL1-4	DORM C148/C231 DAYROOM, SV C147 - EMERG. LTS		
	C2-4	C2-R7	1OPL1-5	SHOWER C232 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 100%
		C2-R8	1LSL1-4	SHOWER C232 - EMERG. LIGHTS		
	C2-5	C2-R9	1OPL1-5	DORM C231 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
		C2-R10	1LSL1-4	DORM C231 - EMERG. LIGHTS		
	C2-6	C2-R11	1R3-6	DORM C148/C231 DAYROOM TV RECEPTACLE	ON/OFF THRU SECURITY SYSTEM	
AREA C INMATE HOUSING DAYRM C151/CELLS	C2-7	C2-R12	1OPL1-3	2 CELL C152-C155/C233-C236 OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C2-8	C2-R13	1OPL1-3	2 CELL C152-C155/C233-C236 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C2-9	C2-R14	1OPL1-3	DAYROOM C151 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
		C2-R15	1LSL1-4	DAYROOM C151 - EMERG. LIGHTS		
	C2-10	C2-R16	1R3-8	DAYROOM C151 TV RECEPTACLE	ON/OFF THRU SECURITY SYSTEM	
AREA C CORR.SV, ROVER STATIONS	C2-11	C2-R17	1OPL1-6	C101-C102,C201-C203,C238 OPTIONAL LTS	ON/OFF THRU SECURITY SYSTEM	LOCAL DIMMING @ ROVER STATIONS
		C2-R18	1OPL1-4	C101-C102,C201-C203,C238 OPTIONAL LTS		
		C2-R19	1LSL1-4	C101-C102,C201-C203,C238 EMERG. LTS		
		C2-R20	1OPL1-4	ROVER STATION C101		
		C2-R21	1LSL1-4	ROVER STATION C101 EMERG. LIGHTS		
		C2-R22	1OPL1-4	ROVER STATION C202		
		C2-R23	1LSL1-4	ROVER STATION C202 EMERG. LIGHTS		
		C2-R24		SPARE		
		C2-R25		SPARE		
		C2-R26		SPARE		
		C2-R27		SPARE		
		C2-R28		SPARE		
		C2-R29		SPARE		
		C2-R30		SPARE		
		C2-R31		SPARE		
		C2-R32		SPARE		
		C2-R33		SPARE		
		C2-R34		SPARE		
		C2-R35		SPARE		
		C2-R36		SPARE		
		C2-R37		SPARE		
		C2-R38		SPARE		
		C2-R39		SPARE		
		C2-R40		SPARE		
		C2-R41		SPARE		
		C2-R42		SPARE		
		C2-R43		SPARE		
		C2-R44		SPARE		
		C2-R45		SPARE		
		C2-R46		SPARE		
		C2-R47		SPARE		
		C2-R48		SPARE		

LIGHTING CONTROL ZONE/RELAY SCHEDULE LIGHTING CONTROL RELAY PANEL LCRP-3

AREA	ZONE	RELAY #	CIRCUIT #	ZONE DESCRIPTION	CONTROL DESCRIPTION	REMARKS
AREA C INMATE HOUSING DAYRM C104/CELLS	C3-1	C3-R1	1OPL1-3	2 CELL C105-C108/C204-C207 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C3-2	C3-R2	1OPL1-3	2 CELL C105-C108/C204-C207 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C3-3	C3-R3	1OPL1-3	DAYROOM C104 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
		C3-R4	1LSL1-6	DAYROOM C104 - EMERG. LIGHTS		
	C3-4	C3-R5	1R2-9	DAYROOM C104 TV RECEPTACLE	ON/OFF THRU SECURITY SYSTEM	
AREA C INMATE HOUSING DORM C110/C209	C3-5	C3-R6	1OPL1-3	SHOWER C111 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 100%
		C3-R7	1LSL1-6	SHOWER C111 - EMERG. LIGHTS		
	C3-6	C3-R8	1OPL1-3	DORM C110 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
		C3-R9	1LSL1-6	DORM C110 - EMERG. LIGHTS		
	C3-7	C3-R10	1OPL1-3	DORM C110/C209 DAYROOM - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
		C3-R11	1LSL1-6	DORM C110/C209 DAYROOM - EMERG. LIGHTS		
	C3-8	C3-R12	1OPL1-3	SHOWER C208 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 100%
		C3-R13	1LSL1-6	SHOWER C208 - EMERG. LIGHTS		
	C3-9	C3-R14	1OPL1-3	DORM C209 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
		C3-R15	1LSL1-6	DORM C209 - EMERG. LIGHTS		
	C3-10	C3-R16	1R2-7	DORM C110/C209 DAYROOM TV RECEPTACLE	ON/OFF THRU SECURITY SYSTEM	
AREA C INMATE HOUSING C113/CELLS	C3-11	C3-R17	1OPL1-2	4 MAN CELLS C114-C118/C210-C214 - OPTIONAL LTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C3-12	C3-R18	1OPL1-2	4 MAN CELLS C114-C118/C210-C214 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C3-13	C3-R19	1OPL1-2	DAYROOM C113 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
		C3-R20	1LSL1-6	DAYROOM C113 - EMERG. LIGHTS		
	C3-14	C3-R21	1R3-11	DAYROOM C113 TV RECEPTACLE	ON/OFF THRU SECURITY SYSTEM	
		C3-R22	1R2-6	DAYROOM C113 TV RECEPTACLE		
AREA C INMATE HOUSING DORM C110/C209	C3-15	C3-R23	1OPL1-2	SHOWER C121 - NORMAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 100%
		C3-R24	1LSL1-6	SHOWER C121 - LIFE SAFETY LIGHTS		
	C3-16	C3-R25	1OPL1-2	DORM C120 - NORMAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
		C3-R26	1LSL1-6	DORM C120 - LIFE SAFETY LIGHTS		
	C3-17	C3-R27	1OPL1-2	DORM C120/C215 DAYROOM - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
		C3-R28	1LSL1-6	DORM C120/C215 DAYROOM - LIFE SAFETY LIGHTS		
	C3-18	C3-R29	1OPL1-2	SHOWER C216 - NORMAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 100%
		C3-R30	1LSL1-6	SHOWER C216 - LIFE SAFETY LIGHTS		
	C3-19	C3-R31	1OPL1-2	DORM C215 - NORMAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
		C3-R32	1LSL1-6	DORM C215 - LIFE SAFETY LIGHTS		
	C3-20	C3-R33	1R2-5	DORM C120/C215 DAYROOM TV RECEPTACLE	ON/OFF THRU SECURITY SYSTEM	
AREA C INMATE HOUSING DAYROOM C123/CELLS/ JUV REC	C3-21	C3-R34	1OPL1-2	JUV CELL ADA C107 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C3-22	C3-R35	1OPL1-2	JUV CELL ADA C107 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C3-23	C3-R36	1OPL1-2	DAYROOM C105 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
		C3-R37	1LSL1-6	DAYROOM C105 - EMERG. LIGHTS		
	C3-24	C3-R38	1OPL1-2	JUV CELL C209- OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C3-25	C3-R39	1OPL1-2	JUV CELL C209 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C3-26	C3-R40	1OPL1-2	JUV CELL C218- OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	PROGRAM DIMMING RELAY TO 50%
	C3-27	C3-R41	1OPL1-2	JUV CELL C218 - NIGHT LIGHTS	ON/OFF THRU SECURITY SYSTEM	
	C3-28	C3-R42	1OPL1-4	JUV REC C124 - OPTIONAL LIGHTS	ON/OFF THRU SECURITY SYSTEM	AUTO. DIMMING THRU DAYLIGHT SENSOR
	C3-29	C3-R43	1LSL1-6	JUV REC C124 - EMERG. LIGHTS		
	C3-30	C3-R44	1R2-6	DAYROOM C123 TV RECEPTACLE	ON/OFF THRU SECURITY SYSTEM	
		C3-R45		SPARE		
		C3-R46		SPARE		
		C3-R47		SPARE		
		C3-R48		SPARE		

Dewberry®
800 North Magnolia Ave. Suite 1000, Orlando, FL 32803-3251
t +1 407.843.5120 f +1 407.649.8664

Ajax
10365 Hood Road South Suite 203 Jacksonville, Fl. 32257
t +1 904-262-8660 f +1 904-262-8623

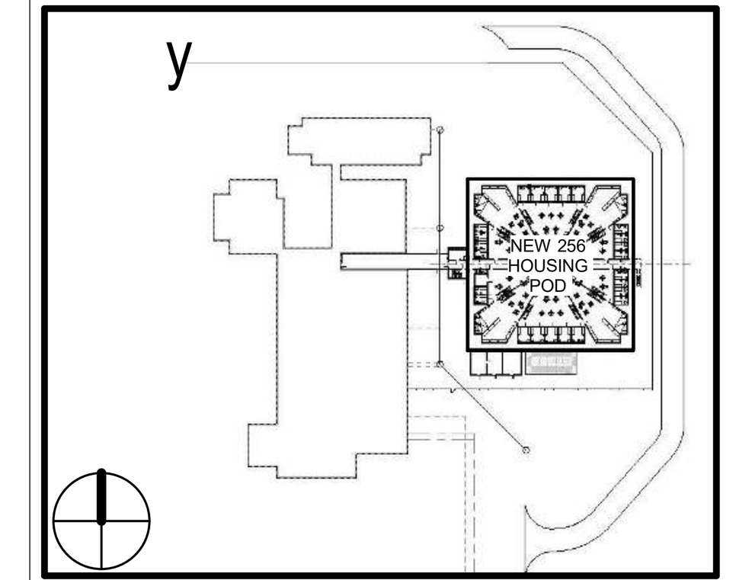
TLC ENGINEERING SOLUTIONS
Copyright 2020
255 S. Orange Avenue Suite 1600 Orlando, FL 32801 P 407.841.9050
COA 15 www.tlc-engineers.com TLC No.:120018
THINK. LISTEN. CREATE.

Professional Seals

Wayne Edward Allred, P.E.
State of Florida
Professional Engineer
License No. 45800

This item has been electronically signed and sealed by the individual named above, using a dated Digital Signature in the space below, per F.A.C. Rule 61G15-23.004. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Wayne E Allred
Digitally signed by Wayne E Allred
DN: CN=Wayne E Allred, OU=A01410C000001719FAB8CBA00003CA8, O=TLC ENGINEERING SOLUTIONS, C=US
Reason: I attest to the accuracy and integrity of this document
Contact Info: PE FL45800
Date: 2020.07.23 13:38:27-04'00'



SCALE NTS

No.	Description	Date
	ISSUED FOR PERMIT	7-24-20

REVISIONS

DRAWN BY O DORIA
APPROVED BY W ALLRED
CHECKED BY L WOLFE
DATE JULY 24, 2020

TITLE

LIGHTING CONTROL BLOCK DIAGRAMS, SCHEDULES

PROJECT NO. 50101397

E-801

SHEET NO.

DESTROY AFTER USE