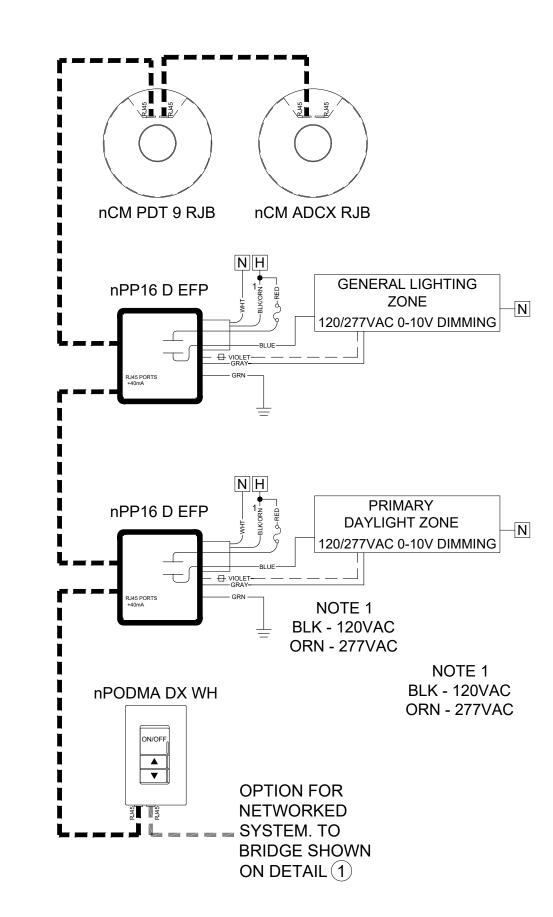


	0	OCCUPANCY SENSOR						TIME CLOCK			
					PAR OF		ES)				
ROOM TYPE	OCCUPANCY MODE (AUTO ON)	VACANCY MODE	DUAL TECHNOLOGY	OCCUPIED LEVEL (%)	TIME OF LAST DETECTED OCCUPANCY (MINUTES)	UNOCCUPIED DIM LEVEL(%)	OCCUPANCY TIME DELAY (MINUTES)	SCHEDULE ON TIME	SCHEDULE OFF TIME	SCHEDULE OVERRIDE SWITCH	
BREAKROOMS/KITCHENS	X		X	100	7.5	10	10				
CLASSROOMS	Х		Х	50	7.5	10	10				
CONFERENCE ROOMS	Х		Х	50	7.5	10	10				
COPY ROOMS	Х		Х	100	7.5	10	10				
CORRIDORS/STAIRWELLS	Х			100	7.5	10	10				
EXTERIOR				100				DUSK	DAWN		
LABS	Х		Х	100	17.5	10	20				
MULTIPURPOSE ROOMS	Х		Х	50	7.5	10	10				
OPEN OFFICE AREAS > 300 SQ FT	Х		Х	100	7.5	10	10				
PARKING GARAGE	X			100	10	10	12.5				
RESTAURANTS/STORES				100		10		TBD	TBD	X	
RESTROOMS	Х		Х	100	7.5	10	10				
OFFICES < 300 SQ FT	Х		Х	50	7.5	10	10				
STORAGE ROOMS > 100 SQ FT	Х			100	7.5	10	10				
WAREHOUSES	Х			100	10	50	12.5	TBD	TBD		

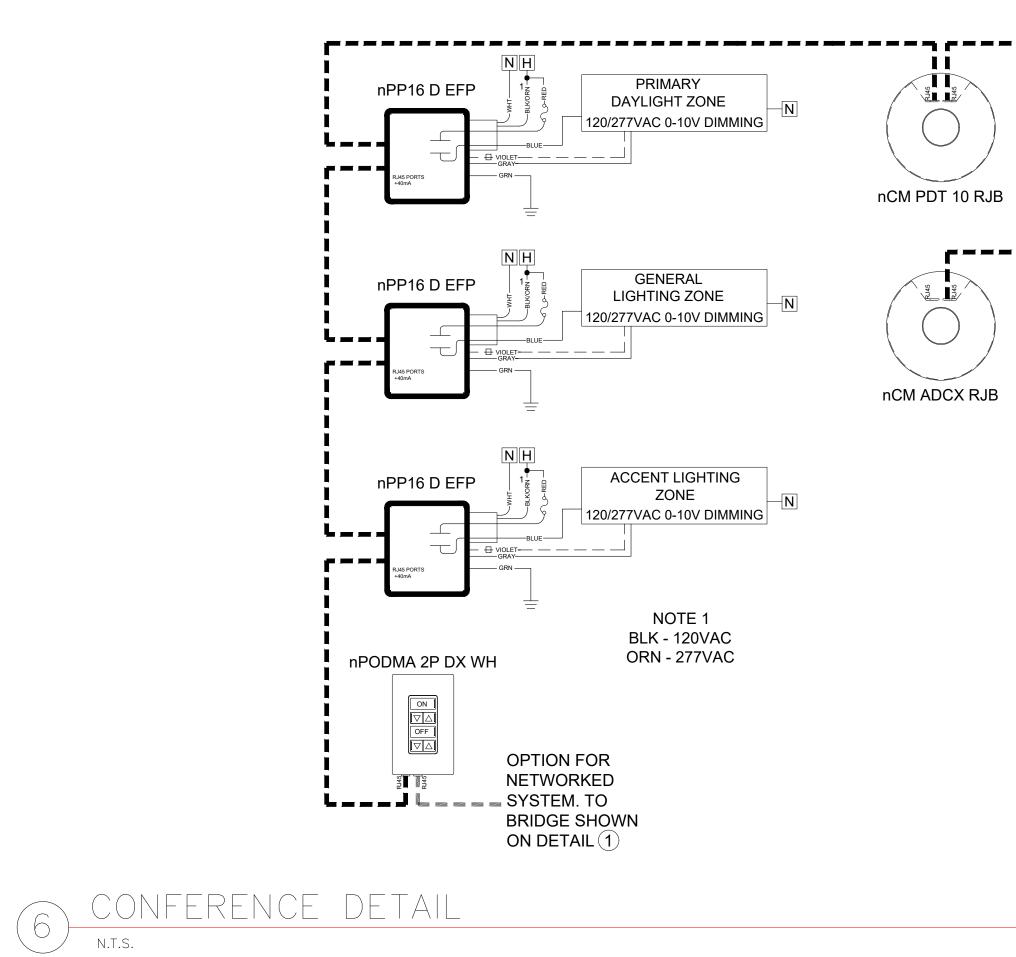
NOTES \* 5 MINUTES BEFORE THE LIGHTING IS SCHEDULED TO TURN OFF, THE LIGHTS WILL TURN OFF FOR 1 SECOND AND THEN GO BACK TO IT'S PREVIOUS DIMMING LEVEL. THIS BLINK WARNING PREVENTS FALSE OFFS AND GIVES AUTHORIZED PERSONNEL A WARNING TO PRESS

WALL SWITCH TO ACTIVATE A 2-HOUR OVERRIDE. OWNER TO VERIFY TIME SCHEDULES. \*\* AUTOMATIC SCHEDULING CONTROLS SHALL BE CAPABLE OF LIGHTING SETBACK CONTROL IN ACCORDANCE TO C405.2.6.2 FOR DECORATIVE FIXTURES AND C405.6.2.3 FOR NON-DECORATIVE FIXTURES. \*\*\* LIGHTING IN OPEN OFFICE AREAS GREATER THAN 300 SQUARE FEET, LIGHTING SHALL BE CONTROLLED SEPARATELY IN CONTROL ZONES NOT GREATER THAN 600 SQUARE. THE FIXTURES IN THE OCCUPIED CONTROL ZONES WILL BE ON AT 100% FULL BRIGHT AND THE FIXTURES IN THE UNOCCUPIED (AFTER 7.5 MINUTES OF NO DETECTED MOVEMENT) CONTROL ZONES WILL BE AT 20% FULL BRIGHT. IF ALL AREAS ARE UNOCCUPIED (AFTER 10 MINUTES OF NO DETECTED MOVEMENT IN ALL CONTROL ZONES) THEN THE LIGHTS WILL TURN OFF.

SEQUENCE OF OPERATION / BASIS OF DESIGN TABLE N.T.S.



4 LARGE OFFICE (LESS THAN 300 SQUARE FEET) DETAIL



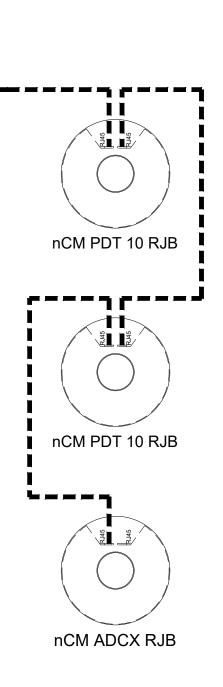
NETWORK CONTROLLER INCLUDES THE FOLLOWING CAPABILITIES:

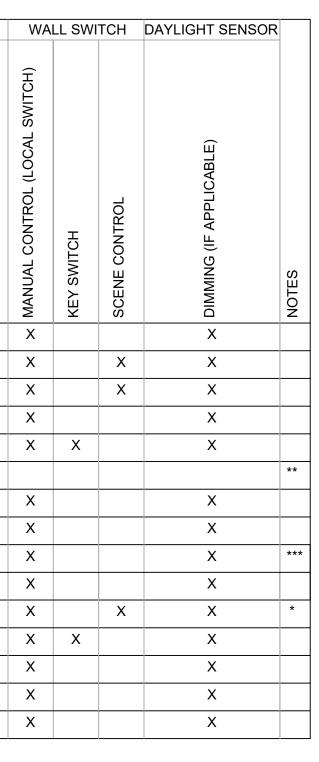
2. ASTRONOMICAL TIME CLOCK VIA SENSORVIEW SOFTWARE.

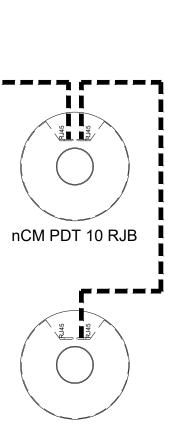
CONFIGURABLE LOAD SHED DIMMING LEVELS THROUGH AN

5. SOFTWARE INTEGRATION FOR BACNET IP/MSTP BAS OR REST API SYSTEMS. BACnet TESTING LABORATORIES LISTED B-BC.

6. SECURITY FIPS PUBLICATION 140-2, LEVEL 1 INSIDE COMPLIANT







- 2. DETAILS ARE DIAGRAMMATIC AND FOR REFERENCE OF SYSTEM AND ROOM TYPE REQUIREMENTS TO MEET BASIS OF DESIGN. AND DEVICES USED FOR EACH SPACE AND NETWORK.
- 3. LIGHTING CONTROL SUBMITTALS FOR NETWORKED SYSTEM SHALL BE PROVIDED BY THE MANUFACTURER OR FACTORY REPRESENATIVE AND SHALL INCLUDE THE FOLLOWING DOCUMENTS(NOT LIMITED TO FOLLOWING):
- 3.2. STANDALONE/NETWORK SINGLE LINE DIAGRAM. 3.3. BASIS OF DESIGN PROGRAMMING OPERATION FOR EACH ROOM TYPE. 3.4. DEVICE CUTSHEETS.
- 4. MANUFACTURER OR FACTORY REPRESENTATIVE TO INCLUDE STARTUP AND COMMISSIONING OF THE LIGHTING CONTROL SYSTEM. MUST INCLUDE A SITE VISIT FOR THE FOLLOWING: 4.1. A PRE-CONSTRUCTION MEETING TO CONFIRM DESIGN AND
- 4.2. PROGRAMMING AND COMMISSIONING OF THE LIGHTING CONTROL SYSTEM TO MEET THE BASIS OF DESIGN AND IECC REQUIREMENTS. 4.3. MAINTENANCE / OWNER WALK THROUGH FOR MAKING FINAL
- 5. CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING CONTROL DEVICES, CABLES, ACCESSORIES AS REQUIRED BY MANUFACTURER'S RECOMMENDATION TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL COMPLIANT IECC SYSTEM.
- 6. CONTRACTOR SHALL TEST ALL LOW VOLTAGE NETWORK CABLES IN THE FIELD TO THE VERIFICATION AND REQUIREMENTS BY THE MANUFACTURER PRIOR TO SYSTEM STARTUP.
- BEST FIT LOCATIONS IN THE FIELD.
- POWERPACKS AND INSTALLED FIXTURES.
- 9. CONTACT HILA FOR COMPLETE nLIGHT LIGHTING CONTROLS BOM, CONTROLS@HI-LTG.COM - PHONE # 808-683-9344.

## IECC 2018 COMPLIANCE:

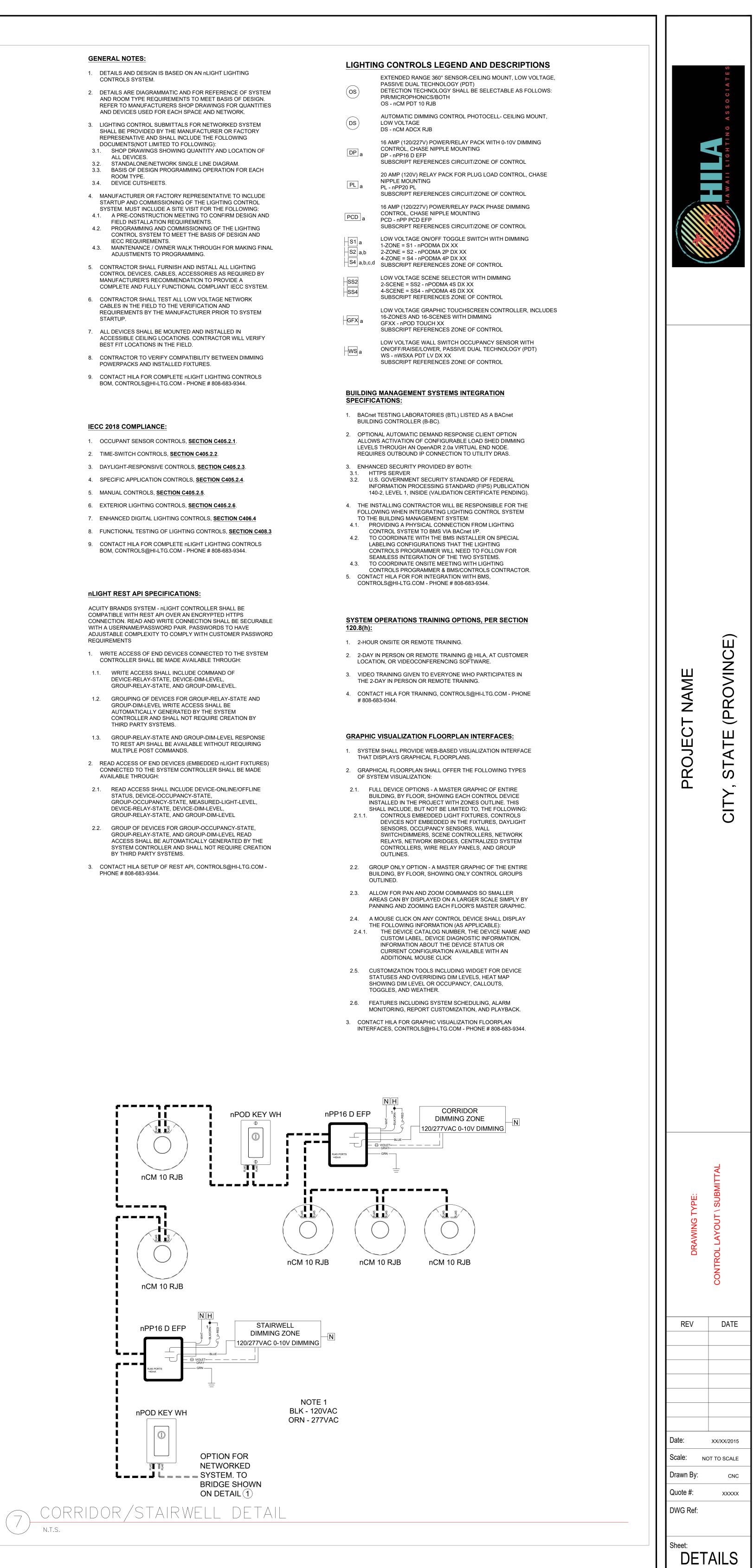
- 1. OCCUPANT SENSOR CONTROLS, SECTION C405.2.1
- 4. SPECIFIC APPLICATION CONTROLS, SECTION C405.2.4.
- 5. MANUAL CONTROLS, SECTION C405.2.5
- 6. EXTERIOR LIGHTING CONTROLS, SECTION C405.2.6.
- 7. ENHANCED DIGITAL LIGHTING CONTROLS, SECTION C406.4
- 9. CONTACT HILA FOR COMPLETE nLIGHT LIGHTING CONTROLS

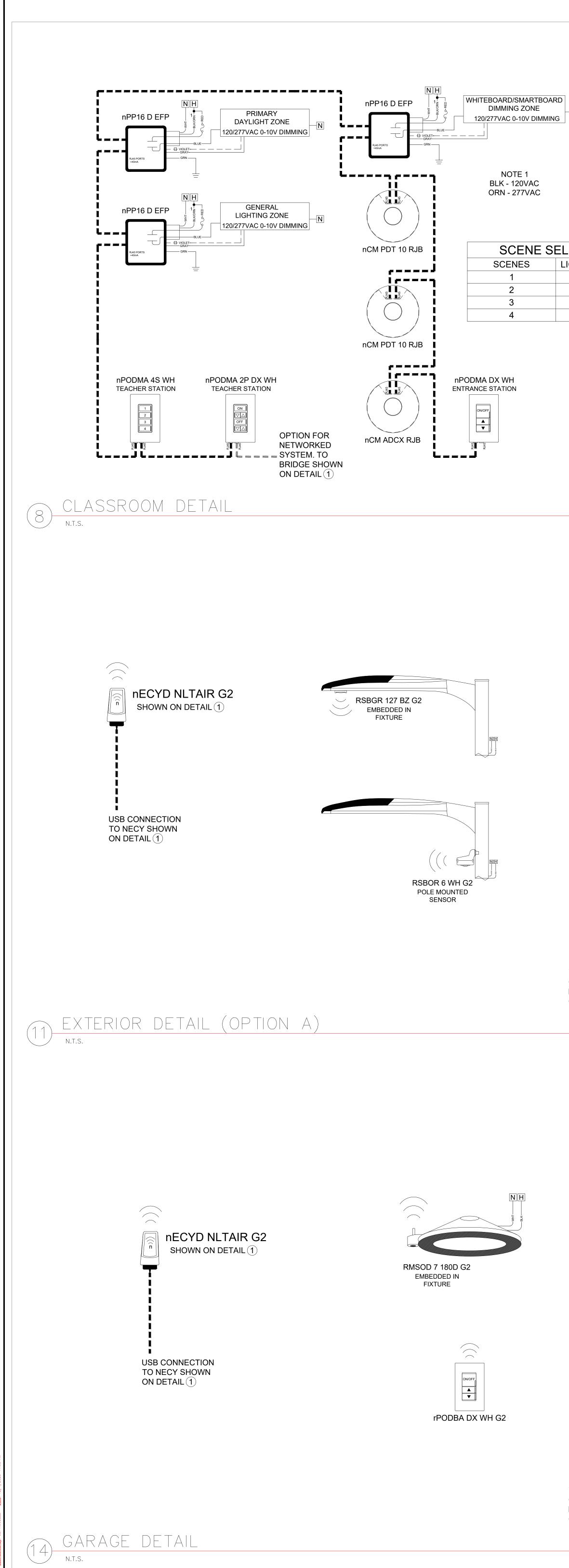
## **nLIGHT REST API SPECIFICATIONS:**

ACUITY BRANDS SYSTEM - nLIGHT CONTROLLER SHALL BE COMPATIBLE WITH REST API OVER AN ENCRYPTED HTTPS CONNECTION. READ AND WRITE CONNECTION SHALL BE SECURABLE WITH A USERNAME/PASSWORD PAIR. PASSWORDS TO HAVE ADJUSTABLE COMPLEXITY TO COMPLY WITH CUSTOMER PASSWORD REQUIREMENTS

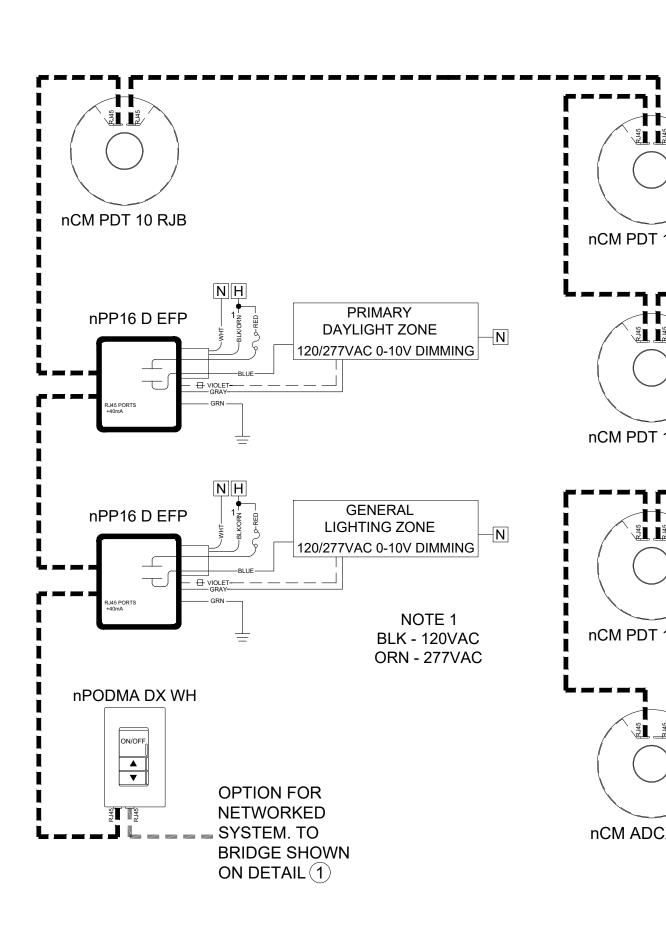
- CONTROLLER SHALL BE MADE AVAILABLE THROUGH: 1.1. WRITE ACCESS SHALL INCLUDE COMMAND OF
- 1.2. GROUPING OF DEVICES FOR GROUP-RELAY-STATE AND GROUP-DIM-LEVEL WRITE ACCESS SHALL BE AUTOMATICALLY GENERATED BY THE SYSTEM
- 1.3. GROUP-RELAY-STATE AND GROUP-DIM-LEVEL RESPONSE TO REST API SHALL BE AVAILABLE WITHOUT REQUIRING MULTIPLE POST COMMANDS.
- 2. READ ACCESS OF END DEVICES (EMBEDDED nLIGHT FIXTURES) CONNECTED TO THE SYSTEM CONTROLLER SHALL BE MADE
- 2.1. READ ACCESS SHALL INCLUDE DEVICE-ONLINE/OFFLINE STATUS, DEVICE-OCCUPANCY-STATE, GROUP-OCCUPANCY-STATE, MEASURED-LIGHT-LEVEL, DEVICE-RELAY-STATE, DEVICE-DIM-LEVEL, GROUP-RELAY-STATE, AND GROUP-DIM-LEVEL
- 2.2. GROUP OF DEVICES FOR GROUP-OCCUPANCY-STATE, GROUP-RELAY-STATE, AND GROUP-DIM-LEVEL READ ACCESS SHALL BE AUTOMATICALLY GENERATED BY THE BY THIRD PARTY SYSTEMS.
- 3. CONTACT HILA SETUP OF REST API, CONTROLS@HI-LTG.COM -PHONE # 808-683-9344.

V N.T.S.

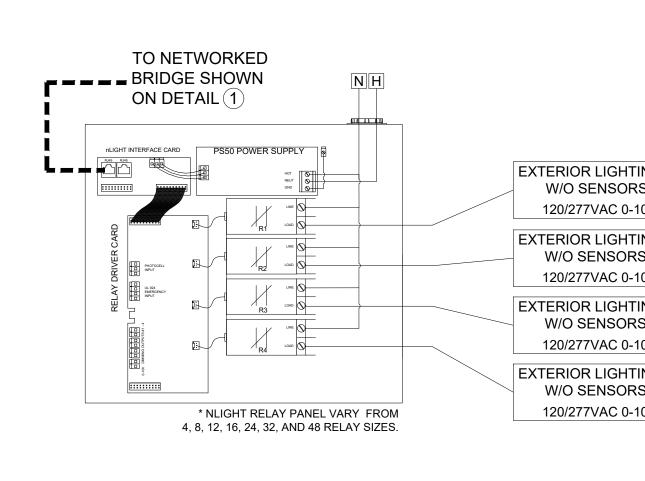




ELECTOR				
LIGHTING LEVELS				
100%				
A/V MODE				
25%				
OFF				



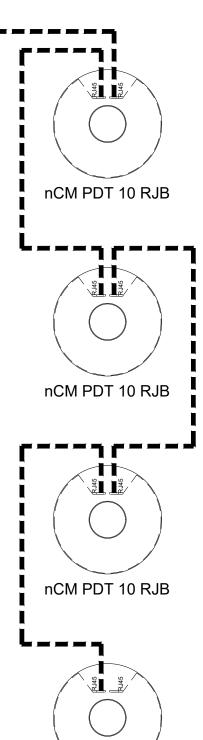
# 9 LAB DETAIL N.T.S.





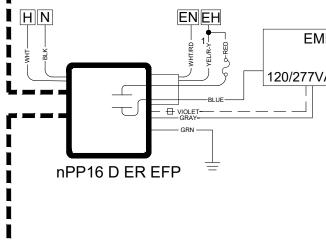
12 EXTERIOR DETAIL (OPTION B) N.T.S.

WIRELESS COMMUNICATION TO NECYD ANTENNA SHOWN ON DETAIL (1)



nCM ADCX RJB

TO ADDITIONAL NLIGHT DEVICES



TO ADDITIONAL NLIGHT DEVICES

10 EMERGENCY POWERPACK TYPICAL N.T.S.

ITING FIXTURES DRS - ZONE 1 D-10V DIMMING	—N
ITING FIXTURES PRS - ZONE 2 0-10V DIMMING	—N
ITING FIXTURES PRS - ZONE 3 0-10V DIMMING	—N
ITING FIXTURES PRS - ZONE 4 D-10V DIMMING	— N

TO NETWORKED BRIDGE SHOWN ON DETAIL (1) nPP16 D EFP ┗━━ GRN

13 EXTERIOR DETAIL (OPTION C) N.T.S.

PROJECT NAME CITY, STATE (PROVINCE)
Image: Second state   Image: Second state