FIRE ALARM	DEVICES	MISC. SYMBOLS	ABBREVIATIONS
FIRE ALARM SMOKE DETECTOR PROVIDE NEW - SAME REFERENCE FIRE STYLE AND TYPE OF SAME MANUFACTURER AS ALARM NOTE	AS SHOWN ON DRAWI	LINCTION BOX ACCESSIBLE LOCATION SIZED AS	MIN - MINIMUM MLO - MAIN LUGS ONLY
EXISTING. LOCATE AT HIGHEST PART OF CEILING. 3'-0" BELOW AWAY FROM FANS OR H.V.A.C. REGISTERS	REVISION NUMBER AS NOTED  AS SHOWN ON DRAWING KEYED NOTE  AS SHOWN ON DRAWING	REQUIRED BY NEC 370-18  EXISTING JUNCTION BOX MAINTAIN ACCESSIBLE	MDF - MAIN DISTRIBUTION FRAME MDP - MAIN DISTRIBUTION PANEL MSAP - MASTER SIGNAL ALARM PANEL MAR - MAIN GUILTOUR OF ROOTER
FIRE ALARM STROBE MAINTAIN EXISTING TO REMAIN PROVIDE NEW AS REQUIRED - SAME MANUFACTURER ALARM DETAILS AS EXISTING. CANDELA RATING AS INDICATED REFERENCE FIRE ALARM DETAILS 80" TO BOTTOM	FURLIBITE FLOOR	LOCATION.  MOTOR, NUMBER INDICATES HORSEPOWER, PROVIDE MOTOR RATED DISCONNECTING MEANS OR STARTER AS REQUIRED.	M\$B - MAIN \$WITCHBOARD MTD - MOUNTED MT\$ - MANUAL TRANSFER \$WITCH MW - MICROWAYE
XXXcd AS EXISTING, CANDELA RATING AS INDICATED SO TO BOTTOM OF STROBE LENS	FLUSH FLOOR BOX ASSEMBLY WITH POWER/ COMMUNICATION CAPABILITY AS NOTED  LOW YOLTAGE SWITCH  LOCATE DEVICE AT A	TO DUCTOCELL TYPE AS SPECIFIED	N - NEUTRAL NA - NOT APPLICABLE NC - NORMALLY CLOSED
REMAIN PROVIDE NEW AS REQUIRED - SAME  ALARM DETAILS  XXXcd  RATING AS INDICATED	* LY CL OR AS NOTED.	TIMES OCK TYPE AS SPECIFIED	NCEC - NURSE CALL EQUIPMENT CABINET NEC - NATIONAL ELECTRICAL CODE NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
PROVIDE NEW FIRE PULL STATION AS REQUIRED - SAME MANUFACTURER AS EXISTING, UPDATE EXISTING ALARM NOTE FIRE ALARM CONTROL PANEL AS REQUIRED.  REFERENCE FIRE ALARM NOTE BELOW	- PROVIDE IN EVERY SPACE LION. CL OR AS NOTED.	EMERGENCY POWER OFF SWITCH, PUSH PULL RED MUSHROOM HEAD, YELLOW	NF - NOT FUSED NFPA - NATIONAL FIRE PROTECTION ASSOCIATION NIC - NOT IN CONTRACT
FIRE ALARM HORN STROBE - PROVIDE NEW SAME IIIO CD. STYLE AND TYPE AS EXISTING. PROVIDE ALL ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE ALARM NOTE	SWITCH, DOUBLE POLE SINGLE THROW LOCATE DEVICE AT 4 CL OR AS NOTED.	NEMA 3R BOX/COVER, PROVIDE ENGRAVED PLACARD INDICATING EQUIPMENT CONTROLLED.	NL - NIGHT LIGHT NO - NORMALLY OPEN NTE - NOT TO EXCEED NTR - NOT TAMPER RESISTANT
AND OPERATIONAL FIRE ALRAM SYSTEM.  BELOW  FIRE ALARM STROBE - PROVIDE SAME STYLE AND TYPE AS EXISTING.	SWITCH, THREE WAY LOCATE DEVICE AT 4 CL OR AS NOTED.	ELECTRICALLY HELD LIGHTING CONTACTOR, ENCLOSURE BY MANUFACTURER, NUMBER OF POLES AS REQUIRED.	NTS - NOT TO SCALE OH - OVERHEAD WIRES
SMOKE DAMPER - FIRNISHED BY DIVISION IS VERIFY	SWITCH, FOUR WAY LOCATE DEVICE AT A CL OR AS NOTED.	" TO	PB - PULL BOX, PUSHBUTTON PC - PHOTOCELL PF - POWER FACTOR
REFERENCE MECHANICAL DRAWINGS TO CONFIRM NUBER AND LOCATIONS WITH MECHANICAL DRAWINGS	DIMMER SWITCH PROVIDE IN ACCORDANCE WITH THE LOCATE DEVICE AT A LOAD OF THE BRANCH CIRCUIT.	g top of total and gull that took agusto	PH - PHASE PH - PHONE (OR PHASE AS APPLICABLE IN VOLTAGE DESCRIPTION) PNL - PANEL POE - POWER OVER ETHERNET
FIRE DAMPER - FURNISHED BY DIVISION IS.  REFERENCE MECHANICAL DRAWINGS TO CONFIRM  NUBER AND LOCATIONS  REFERENCE FIRE  ALARM NOTE  BELOW	\$ SWITCH, KEY OPERATED LOCATE DEVICE AT	ACCESSIBLE CEILING, ROUGH IN MAG LOCK OR STRIKE	POS - POINT OF SALE POTS - PLAIN OLE TELEPHONE SYSTEM P\$1 - PROVIDE AND INSTALL
DUCT SMOKE DETECTOR (RETURN) PROVIDED BY REFERENCE FIRE ELECTRICAL CONTRACTOR INSTALLED IN TO DUCT BY ALARM NOTE	LOCATE DEVICE AT	DOOR BELL MANUFACTURER'S RECOMMENDATIONS	PS - PULL STRING PT - PRESSURE TREATED PTZ - PAN TILT ZOOM
MECHANICAL CONTRACTOR CONNECT TO EXISTING BELOW FIRE ALARM AS REQUIRED.	CL OR AS NOTED.	DOOR BELL PROVIDE IN ACCORDANCE WITH DOOR	PVC - POLYVINYL CHLORIDE  R - RANGE  Re - ELEC. DEVICE TO BE RELOCATED (DEMOLITION)  BELOCATED ELECTRICAL DEVICE (RENOVATION)
DUCT SMOKE DETECTOR (SUPPLY) PROVIDED BY REFERENCE FIRE ELECTRICAL CONTRACTOR INSTALLED IN TO DUCT BY ALARM NOTE MECHANICAL CONTRACTOR CONNECT TO EXISTING BELOW	SPDT MOMENTARY CONTACT SWITCH WITH CENTER 'OFF' LOCATE DEVICE AT POSITION LOCATE DEVICE AT CL OR AS NOTED.	DC DOOR CONTACT	R: - RELOCATED ELECTRICAL DEVICE (RENOVATION) REC - RECEPTACLE REF - REFERENCE, REFRIGERATOR REQ'D - REQUIRED
(S) FIRE ALARM AS REQUIRED.	MOTOR RATED TOGGLE SWITCH - PROVIDE WITH  THERMAL OVERLOAD PROTECTION AS REQUIRED BY CODE OR MANUFACTURER OF MOTOR.  LOCATE DEVICE AT CL, ACESSIBLE AND ADJACENT TO EQUIP	MI MACHETIC LOCK	REX - REQUEST TO EXIT RGA - REMOTE GENERATOR ANNUNCIATOR RGS - RIGID GALVANIZED STEEL
EXISTING FIRE ALARM HORN STROBE	AS NOTED.  OCCUPANCY SENSOR WALL SWITCH DUAL  TECHNOLOGY ULTRASONIC / INFRARED  LOCATE DEVICE AT CL OR AS NOTED.	5" TO DOOR MONITOR PROVIDE FOR POWER AND CONTROL TERMINATIONS	RLA - RUNNING LOAD AMPERES RM - ROOM RR - RATE OF RISE
EXISTING FIRE ALARM PULL STATION REFERENCE FIRE ALARM NOTE BELOW	DTO OCCUPANCY SENSOR WALL SWITCH DUAL LOCATION OF DEVICE MANUFACTURERS	KEY PAD WITH TOUCH CARD OR KEY FOB PROXIMITY READER, WP INDICATES WEATHERPROOF	SCA - SHORT CIRCUIT AMPERE SCH - SCHEDULE SCR - SHORT CIRCUIT RATING
SD EXISTING AIR DUCT SMOKE DETECTOR	TECHNOLOGY RECOMMENDATIONS  DIGITAL TIMER WALL SWITCH HUBBELL MODEL DT12T1W LOCATE DEVICE AT	CONTACT SWITCH (PUSH BUTTON OR BUTTON) PROVIDE MAINTAINED, OR MOMENTARY CONTACTS, OR BOTH AS REQUIRED FOR CONTROL. PROVIDE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS	SD - SMOKE DETECTOR SE - SERVICE ENTRANCE SEC - SECONDS, SECONDARY SF - SUPPLY FAN
EXISTING COMBINATION FIXED TEMPERATURE AND RATE OF RISE HEAT DETECTOR	\$T SET: (5 MIN INTERVALS) CL OR AS NOTED.	WIRELESS ACCESS POINT (WAP) CEILING MOUNTED. PROVIDE POWER AND DATA	9G - SINGLE GANG SPD - SURGE PROTECTIVE DEVICE SPDT - SINGLE POLE DOUBLE THROW
EXISTING MAGNETIC DOOR HOLDER 6'-0" AFF OR AS NOTED ON PLANS	TIME DELAY 'OFF' SWITCH, SPRING WOUND LOCATE DEVICE AT 15 MIN TIMESWITCH. RESIDENT UNIT BATHROOMS INTERMATIC FFISM - OR AS SPECIFIED	EMERGENCY CALL REPEATER STATION PROVIDE 120 VOLT RECEPTACLE	SPEC - SPECIFICATIONS SS - STAINLESS STEEL SSA - SOUND SYSTEM AMPLIFIER
EXISTING FIRE ALARM CHIME/STROBE 80" TO BOTTOM OF STROBE LAMP	SWITCH WITH PILOT LIGHT LOCATE DEVICE AT CL OR AS NOTED.	TO AT LOCATION INDICATED	SSTC - SOUND SYSTEM TERMINAL CABINET ST - SHUNT TRIP STP - SURGE PROTECTIVE DEVICE SWBD - POWER DISTRIBUTION SWITCHBOARD
MOTORMECHANICAL DAMPER PROVIDE  TERMINATIONS AS REQUIRED.	FC FAN LIGHTING AND FAN SPEED CONTROL SWITCH. PROVIDE AS REQUIRED BY MANUFACTURER OF FAN CL OR AS NOTED.	CEILING PIR OCC. SENSOR: LMPC-100	TEMP - TEMPERATURE
EXISTING FIRE ALARM SMOKE DETECTOR MAINTAIN EXISTING TO REMAIN PROVIDE NEW AS REQUIRED -	SINGLE RECEPTACLE, 125V  LOCATE DEVICE AT CL OR AS NOTED.	" то	TH - TUNGSTEN HALOGEN THD - TOTAL HARMONIC DISTORTION TOB - TOP OF BOX
E SAME MANUFACTURER AS EXISTING.  FIRE ALARM NOTE: ALL FIRE ALARM DEVICES ARE NEW, PRIOR TO CONSTRUCTION,	DUPLEX RECEPTACLE, 125V  LOCATE DEVICE AT CL OR AS NOTED.	" ТО	TR - TAMPTER RESISTANT TTB - TELEPHONE TERMINAL BOARD TY - TELEVISION TY - TELEVISION
PROVIDE THE TIME AND LABOR TO VERIFY LOCATIONS OF EXISTING FIRE ALARM CONTROL PANEL, EQUIPMENT, OR ASSOCIATED EQUIPMENT TO BE USED FOR NEW DEVICES INDICATED ON DRAWINGS. PROVIDE ADDITIONAL ELECTRICAL COMPONENTS, DEVICES AND REQUIRED	LOCATE DEVICE AT	5" TO	TVTB - TELEVISION TERMINAL BOARD TYP - TYPICAL U/C - UNDERCOUNTER UG - UNDERGROUND
EQUIPMENT FOR ANY NEW DEVICES INDICATED ON DRAWINGS, OR REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM. PROVIDE CONNECTION TO LIFE SAFETY BRANCH, FIRE ALARM CERTIFICATION SHALL BE PRESENT UPON FINAL A.H.C.A	DUPLEX RECEPTACLE, 125V  CL.  LOCATE AT 8" CL AE DESK TOP AT BUILT		UON - UNLESS OTHERWISE NOTED UTP - UNTWISTED PAIR V - VOLTS
INSPECTION AND BUILDING INSPECTIONS.	DESK.  ABOVE BACKSPLASI	TVTB CABLE TY TERMINAL BOARD AS NOTED	VERT - VERTICAL VFD - VARIABLE FREQUENCY DRIVE W - WATTS WH - WEATHER HEAD
GENERAL	AS NOTED.  GFI DUPLEX RECEPTACLE, 125 VOLT, GROUND FAULT LOCATE DEVICE AT	TTB TELEPHONE TERMINAL BOARD PROVIDE 4 'x 8 'x 3/4" PLYWOOD BOARD	WH - WEATHER HEAD  WM - WEATHER RESISTANT  WP - WEATHER PROOF
REVISION NUMBER AS NOTED	CIRCUIT INTERRUPTER CL OR AS NOTED.	TELEVISION / MONITOR - PROVIDE ALL COMPONENTS FOR COMPLETE OPERABLE TELEVISION. COORDINATE BOX / TV MOUNTING BRACKET LOCATIONS PROVIDE	XFMR, T- TRANSFORMER XP - EXPLOSION PROOF
DRAWING KEYED NOTE	DUPLEX RECEPTACLE, 125 VOLT, GROUND FAULT CIRCUIT INTERRUPTER  DUPLEX RECEPTACLE, 125 VOLT, GROUND FAULT CL OR ABOVE BACK OR AS NOTED	5" TO         Y     CONVIAL CABLE BETHEEN TV AND ASSOCIATED CABLE	
	WP DUPLEX RECEPTACLE, 125Y W/ CAST ALUMINUM, NEMA 3R, WHILE IN USE COVER, GFI TYPE DEVICE CL OR AS NOTED.		
LIGHTING SYMBOLS	DUPLEX RECEPTACLE, 125V (BOTTOM HALF SWITCHED) LOCATE DEVICE AT CL OR AS NOTED.		
RECESSED / OR SURFACE MOUNT LUMINAIRE. LETTER DESIGNATES TYPE. PROVIDE GASKET AND LENS. CONNECT TO CRITICAL BRANCH	DUPLEX RECEPTACLE, 125 YOLT, EXISTING - MAINTAIN EXISTING BRANCH CIRCUIT	EXISTING SOUND SYSTEM CEILING SPEAKER  SYSTEM CEILING SPEAKER  RECESSED INTO CEILING OR SURFACE. PROVIDE NEW AS IN' = NEW TO MATCH EXISTING STYLE AND TYPE  REQUIRED	
RECESSED / OR SURFACE MOUNT LUMINAIRE. LETTER DESIGNATES TYPE. PROVIDE GASKET AND LENS. CONNECT TO CRITICAL BRANCH	DUPLEX RECEPTACLE, 125V, IN PEDESTAL TYPE SURFACE MOUN ON FLOOR		
RECESSED LIGHT FIXTURE CONNECTED TO BRANCH CIRCUIT INDICATED	DUPLEX RECEPTACLE, 125V, IN FLUSH FLOOR BOX  FLUSH W/FLOOR	SP SOUND SYSTEM CEILING SPEAKER RECESSED INTO CEILING	DEVICE & PLATES COLOR  1. ALL DEVICES ARE WHITE EXCEPT THE FOLLOWING:
RECESSED LIGHT FIXTURE CONNECTED TO CRITICAL BRANCH CIRCUIT INDICATED	IG DUPLEX RECEPTACLE, 125V, 150LATED GROUND TYPE LOCATE DEVICE AT CL OR A5 NOTED.	RELOCATE TO 24 HOUR NURSE STATION PROVIDE ALL LOCATION RELOCATE	ALL EXTERIOR & INTERIOR IN STONE WALLS ARE IVORY ALL INSTALLED IN DARK CASEWORK ARE BROWN.
PENDANT MOUNTED LUMINARE, LETTER DESIGNATES TYPE.	IG DUPLEX RECEPTACLE, 125V, 190LATED GROUND TYPE LOCATE DEVICE AT CL OR AS NOTED.	5" TO MS LOCATION COORDINATE PRIOR TO ROUGH-IN	<ol> <li>ALL PLATES ARE COLOR MATCHING NYLON EXCEPT THE FOLLOWING: STAINLESS STEEL PLATES IN ALL FOOD SERVICE AREAS, KITCHENS, PANTRIES, AND LAUNDRY AREAS.</li> </ol>
CEILING MOUNTED FAN W/TØLB DYNAMIC RATED BOX. PROVIDE OUTDOOR RATED FAN FOR EXTERIOR LOCATIONS PROVIDE LIGHT KIT IF SPECIFIED.	DUPLEX RECEPTACLE, 125 VOLT, EXISTING:  LOCATE DEVICE AT CL OR ABOVE BACK		3. RESIDENTIAL GRADE DEVICES ARE APPROVED FOR USE ONLY IN RESIDENTIAL UNITS.
	OR AS NOTED  EXISTING RECEPTACLE, IV-125/25ØV, 2ØA, 2P3W + G  CONTINUITY  OR AS NOTED  MAINTAIN BRANCH CI CONTINUITY	A   CABLE BETWEEN DEVICE BOX AND IT ROOM	4. TAMPER RESISTANT RECEPTACLES ARE REQUIRED IN ALL AREAS EXCEPT THE FOLLOWING: DISHWASHER/DISPOSAL, CLOCK, CABINET LIGHTS, REFRIGERATOR,
FLOOD OR ACCENT LUMINAIRE, LETTER INDICATES TYPE, ARROW INDICATES DIRECTION OF AIM,	LOCATE DEVICE AT	TELEPHONE OUTLET ONE (1) RJ45 DEVICE. PROVIDE CAT 5E CABLE BETWEEN DEVICE BOX AND IT ROOM  RECESSED INTO FLOOR	MICROWAYE, DRINKING FOUNTAIN AND WASHING MACHINE.  5. DEVICES ON LIFE SAFETY AND EQUIPMENT BRANCHES SHALL BE OF A
EMERGENCY BATTERY UNIT - PROVIDE NEMA 3R ENCLOSURE FOR UNITS SHOWN EXPOSED TO ELEMENTS.	CL OR AS NOTED.	5" TO COMBINATION DATA / TELEPHONE OUTLET TWO (2) DATA DROP	DISTINCTIVE COLOR AND ILLUMINATED.  MC CABLE
BOLLARD TYPE FIXTURE LETTER DESIGNATES TYPE	CL OR AS NOTED.	RJ45 DEVICES. PROVIDE TWO (2) CAT 5E CABLES  BETWEEN DEVICE BOX AND NEAREST IDF OR MDF  ROOM PUNCH DOWN.  DATA DROP  CONCEALED TO THE  GREATEST EXTENT  POSSIBLE	THE USE OF MC, MC-PCS, MC-HCF IS ALLOWED ON THIS PROJECT SUBJECT TO THE
RECESSED / OR SURFACE MOUNT LUMINAIRE - LETTER DESIGNATES TYPE.	QUADRAPLEX RECEPTACLE, 125V IN FLUSH FLOOR BOX AS NOTED	TELEPHONE OUTLET ONE (1) RJ45 DEVICE. PROVIDE	LIMITATIONS SET FORTH BELOW AND ACCORDING TO PARAMETERS SET FORTH IN NEC 70 ARTICLE 330.  1. MC CABLE CAN BE USED TO CONNECT LUMINAIRES INSTALLED WITHIN AN
RECESSED / OR SURFACE MOUNT LUMINAIRE - LETTER DESIGNATES TYPE. CONNECT TO CRITICAL BRANCH	RECEPTACLE, 10-125/250V, 30A, 2P3W + G (OR NEMA CONFIGURATION AS NOTED) PROVIDE CORD AND TO CL FOR DRYER, ABOVE BASE BOARD	PUNCH DOWN.	ACCESSIBLE CAN BE USED TO CONNECT LUMINAIRES INSTALLED WITHIN AN ACCESSIBLE CEILING TO A JUNCTION BOX WHEN THE LENGTH DOES NOT EXCEED SIX FEET. IN SUCH INSTALLATIONS, THE MC CABLE FITTINGS SHALL BE PERMITTED AS MEANS OF CABLE SUPPORT.
A - RECESSED OR SURFACE WALL MOUNTED SCONCE - LETTER DESIGNATES TYPE.	PLUG  ABOVE BASE BOARD  FOR OVEN OR AS NO	SPECIFICATIONS AND PLANS FOR REQUIREMENTS (TYIPCAL), PROVIDE TWO (2) CAT 5E CABLES	2. MC CABLE CAN BE USED TO CONNECT DEVICES INSTALLED CONCEALED INSIDE A WALL CAVITY.
RECESSED OR SURFACE WALL MOUNTED SCONCE - LETTER DESIGNATES TYPE. CONNECT TO CRITICAL BRANCH.	SPECIAL RECEPTACLE. NEMA CONFIGURATION AS LOCATE DEVICE AT CL OR AS NOTED.	BETWEEN DEVICE BOX AND NEAREST IDF OR MDF ROOM PUNCH DOWN.	3. MC CABLE CAN BE USED TO CONNECT THE LAST DEVICE IN A CIRCUIT TO A HOMERUN JUNCTION BOX MOUNTED ON OR ADJACENT TO THE FRAMING TOP
1'x4' LUMINAIRE OR SURFACE OR RECESSED - LETTER DESIGNATES TYPE.  1'x4' LUMINAIRE OR SURFACE OR RECESSED - LETTER DESIGNATES TYPE.	LOCATIONS OF SIMPLEX, DUPLEX AND QUADRAPLEX DEVICES LOCATED ABOVE 18 " SHALL VERIFIED WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.	ELECTRICAL COMPONENTS SHALL BE DEFINED AS ANY	PLATE.  4. MC CABLE USE SHALL BE LIMITED TO #12, #10 AND #8 COPPER CONDUCTORS.
CONNECT TO CRITICAL BRANCH.  2'x4' LUMINAIRE OR SURFACE OR RECESSED - LETTER DESIGNATES  TYPE AND AND ALTER ANGLE AND ADDRESS		ELECTRICAL: DEVICE(\$), DEVICE BOXES, OUTLET BOXES, ENCLOSURE(\$), MODULE(\$), RELAY(\$), BREAKER(\$), FUSES, RACEWAYS, RACEWAY COUPLINGS OR CONNECTORS, LOCKNUTS,	5. MC CABLE SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND FRAMING MEMBERS.
A NL KITCHEN AREAS		WASHERS, LUGS, WIRE NUTS, LUG BLOCKS WITH BOOTS, SLEEVES, SLIP WEDGE, BUSHINGS, TIE WRAPS, STRAPS, COVER PLATES, WIRE, CABLING, DISCONNECTS, MOTOR STARTERS, PAINT, REBAR,	6. MC CABLE SHALL BE USED FOR BRANCH CIRCUITS ONLY. HOMERUNS SHALL BE IN CONDUIT.
FLUORESCENT STRIP OR TASK LIGHTING: FIXTURE ON EMERGENCY POWER  SURFACE OR CHAIN HUNG STRIP LUMINAIRE		CONCRETE, CURRENT TRANSFORMERS, BALLAST, PLYWOOD, ENGRAYED NAMEPLATES, ENGRAYED PLACARDS, CORD CAPS, CORDS, JACK CHAIN, CHANNEL, FIRE CAULKING, SCREWS, BEAM	7. MC CABLE SHALL BE PROTECTED WHEN INSTALLED THROUGH OR RUN PARALLEL TO FRAMING MEMBERS SO THAT THE NEAREST OUTSIDE SURFACE IS AT LEAST 1 1/4" FROM THE NEAREST EDGE OF THE FRAMING MEMBER, WHEN
EXIT LUMINAIRE. SHADING INDICATES DOUBLE OR SINGLE FACE ARROW SHOUS DIRECTION OF CHEVRON		CORDS, SACR CHAIN, CHAINEL, FIRE CAULKING, SCREWS, BEAIT CLAMPS, PROGRAMMING, LAMPS, DRIVERS, BALLAST, STROBES, DOME LIGHTS, HORNS, SPEAKERS, BATTERIES, GROUNDING / BONDING CONDUCTORS, WIRE TAGS, ETC	THIS DISTANCE CAN NOT BE MAINTAINED, THE CABLE SHALL BE PROTECTED FROM SCREW OR NAIL PENETRATION BY A STEEL PLATE, SLEEVE, OR EQUIVALENT OF AT LEAST 1/16" THICK.
			8. THE RADIUS OF INNER BEND IN CORRUGATED SHEATH MC CABLE SHALL BE GREATER THAN 4" FOR MC CABLE CONTAINING #12 CONDUCTORS AND 4.5"
SITE LIGHT - POLE WITH LUMINAIRE. LETTER INDICATES TYPE, PROVIDE POLE AND BASE AS SPECIFIED			FOR MC CABLE CONTAINING #10 CONDUCTORS.  9. MC CABLES SHALL BE SUPPORTED AT LEAST EVERY 6' & WITHIN 12" OF
			EVERY BOX, FITTING OR OTHER TERMINATION.  10. MC CABLE SHALL BE REPLACED HILLEN THE CORPLICATED SHEATH HAS

ELECTRICAL GENERAL NOTES ABBREVIATIONS

CABLES SHALL BE SUPPORTED AT LEAST EVERY 6' & WITHIN 12" OF ÆRY BOX, FITTING OR OTHER TERMINATION. . MC CABLE SHALL BE REPLACED WHEN THE CORRUGATED SHEATH HAS SEPARATED AND IS NO LONGER INTERLOCKED.

CONTRACTOR SHALL BE LICENSED BY THE STATE OF FLORIDA ACCORDING TO CHAPTER 489, FLORIDA STATUTES AND SHALL PROVIDE FOR AND ACQUIRE ALL NECESSARY PERMIT(S) AND INSPECTIONS AS MAY BE REQUIRED BY THE AHJ. INSTALLATION SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE

APPLICABLE CODES AS LISTED. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR NECESSARY TO PROVIDE FOR THE INSTALLATION OF A COMPLETE ELECTRICAL DISTRIBUTION

THE CONTRACTOR SHALL MAKE A THOROUGH EXAMINATION OF THE SITE CONDITIONS AND CONTRACT DOCUMENTS. PROVIDE ANY AND ALL NECESSARY TEMPORARY CONNECTIONS OF EQUIPMENT, DEVICES OR LUMINAIRES AS MAY BE REQUIRED FOR CONSTRUCTION. CONDUIT SHALL BE INSTALLED CONCEALED, RECESSED AND IN A NEAT AND WORKMANLIKE MANNER, ALL CONDUIT SHALL BE INSTALLED PARALLEL OR

PPERPENDICULAR TO BUILDING LINES. EXPOSED CONDUIT ON EXTERIOR WALLS OF FINISHED WALLS IS PROHIBITED. CONDUIT SHALL BE EMT AND FITTINGS SHALL BE STEEL. FOR UNDERGROUND AND UNDER SLAB INSTALLATIONS, CONDUIT SHALL BE PYC OR IMC WAN ASPHALTIC COATING ENT OR "SMURE" TUBING IS NOT APPROVED ALL CONDUIT CUT ENDS SHALL BE REAMED PER NEC 358.28.

CONDUCTORS IN CONDUIT INSTALLED EXPOSED TO DIRECT SUNLIGHT SHOULD BE DE-RATED DEPENDING ON THE DISTANCE BETWEEN THE ROOF & BOTTOM OF CONDUIT PER NEC 310.15(B)3(C) & SHOULD BE INSTALLED USING THE APPROPRIATE SPACER. ). PROVIDE AN INDEPENDENT MEANS OF SUPPORT FOR CONDUIT INSTALLED ABOVE A

CEILING WHERE THEY ARE DISTINGUISHABLE BY COLOR, TAGGING OR OTHER EFFECTIVE MEANS. THE CEILING SUPPORT SYSTEM SHALL BE PERMITTED TO SUPPORT BRANCH CIRCUIT WIRING WHERE INSTALLED IN ACCORDANCE WITH THE CEILING MANUFACTURER'S INSTRUCTIONS. PROVIDE A MINIMUM 1 1/2" SPACE BETWEEN METAL CORRUGATED SHEET ROOF

DECKING AND ANY CABLE, CONDUCT OR BOX PER NEC 300.4(E). PROVIDE AN INSULATED THROAT FITTING OR PLASTIC BUSHING FOR ALL !" 4 LARGER CONDUIT TERMINATIONS IN PANELBOARDS, WIREWAYS AND DISCONNECT BOND ALL JUNCTION AND PULL BOXES TO GROUND.

ALL WIRE SHALL BE COPPER THHN, THWN OR XHHW UON. MINIMUM WIRE SIZE IS \*12. AMPACITIES ARE CALCULATED USING THE 15°C COLUMN. REFER TO BRANCH CIRCUIT SCHEDULE FOR MAXIMUM LENGTHS OF CONDUCTORS. . ALL WIRING DEVICES SHALL BE TERMINATED AT THE SCREW IN A CLOCKWISE DIRECTION. THE PUSH-IN TERMINATIONS SHALL NOT BE USED.

SHALL BE UPSIZED IN ACCORDACNE WITH NEC. MOTOR STARTING SWITCHES MAY BE ELIMINATED AT DUCT HEATERS AND VAV BOXES IF A DISCONNECTING MEANS HAS BEEN PROVIDED WITH THE EQUIPMENT. INSTALL A FULL SIZE NEUTRAL TO ALL DEVICES INCLUDING SWITCHES. 20. TERMINATE NO MORE THAN ONE WIRE PER TERMINAL PER NEC 110.14A.

TOTAL BRANCH CIRCUIT VOLTAGE DROP SHALL NOT EXCEED A TOTAL OF 5%. WIRE

. CONDUCTORS SHALL BE TWISTED TOGETHER PRIOR TO INSTALLATION OF WIRE NUT. . REFER TO DATA/COMM DETAIL FOR EXTENT OF INSTALLATION REQUIRED. 23. ALL BOXES SHALL BE A 4" SQUARE METAL BOX WITH THE APPROPRIATE RING. THE MAXIMUM GAP AROUND ANY RECESSED BOX SHALL NOT EXCEED 1/8" AND THE MAXIMUM SETBACK SHALL NOT EXCEED 1/4" PER NEC 314.20 \$ 314.21.

4. VERIFY DOOR SWINGS AND BACK SPLASH HEIGHTS AT ROUGH IN. 25. STAGGER BACK TO BACK WALL BOXES IN ALL WALLS BY AT LEAST ONE STUD. 26. ALL EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT PER NEC 406.4. . PROVIDE ARLINGTON "IN BOX" IN USE COVERS FOR ELECTRICAL DEVICES INSTALLED IN DAMP AND WET AREAS WITH THE APPROPRIATE DUTY PER NEC 406.9. 8. PROVIDE FIRE RATED, FIVE SIDED, BOXES FOR FIRE RATED WALLS AND CEILINGS. CONFIRM LOCATIONS OF CEILINGS AND WALLS WITH ARCHITECTURALS PRIOR TO

ELECTRICAL ROUGH-IN INSPECTIONS. 9. ALL PANEL BOARD BUS SHALL BE COPPER. 30. EACH PANEL BOARD AND DISCONNECTING MEANS SHALL BE MARKED TO INDICATE ITS PURPOSE, FEED, AND OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED PER NEC 110.22. PROVIDE A TYPED PANEL SCHEDULE REFLECTING INSTALLED CONDITIONS FOR ALL

PANEL BOARDS WITH "SPACE" OR "SPARE" WRITTEN IN PENCIL. 2. INSTALL LOAD CENTERS AND DISCONNECTS SO THAT AT LEAST 3 1/2' OF WORKING SPACE CAN BE MAINTAINED PER NEC 11026 AND DETAIL 3. ELECTRICAL EQUIPMENT SUPPORT WIRES SHALL BE TAUT & FASTENED AT BOTH

34. "TYPICAL" NOTES APPLY TO ALL SIMILAR SITUATIONS. 35. PROVIDE A DISCONNECTING MEANS FOR EACH WATER HEATER PER FPC 504.3. 36. LABEL ALL JUNCTION BOX COVERS WITH CIRCUITS DESIGNATION CONTAINED WITHIN. 7. PROVIDE OPERATING AND INSTALLATION INSTRUCTIONS TO THE OWNER FOR ALL

INSTALLED EQUIPMENT. 38. AN FS BOX IS NOT APPROVED AS A SUPPORT FOR A LUMINAIRE. 39. PROVIDE A DISCONNECTING MEANS IN ALL FLUORESCENT LUMINAIRES THAT ARE INSTALLED NEW OR REPAIRED.

40. LUMINAIRES INSTALLED IN SUSPENDED CEILINGS SHALL BE FASTENED TO THE CEILING FRAMING MEMBERS WITH LISTED CLIPS IN ACCORDANCE WITH NEC 410.36(B)

PROVIDE DOCUMENTATION WITH CLOSE OUT DOCUMENT PROVING THAT ANY AND ALL BALLASTS AND LAMPS HAVE BEEN RECYCLED BY AN APPROVED RECYCLING

!. PROVIDE THE APPROPRIATE FIRE STOP SYSTEM AND/OR FIRE CAULK AT ANY PENETRATION OF A RATED VERTICAL ASSEMBLY. 3. PENETRATIONS OF A RATED HORIZONTAL ASSEMBLY WITH A METAL CONDUIT NOT EXCEEDING 6 INCH NOMINAL DIAMETER, INSTALL CONCRETE, GROUT, OR MORTAR THE FULL THICKNESS OF THE FLOOR AS REQUIRED BY FBC 113.4.1.1 SO TO MAINTAIN THE FIRE REGISTANCE RATING. FOR MULTIPLE PENETRATIONS, REFER TO THE FBC. 14. ALL JUNCTION BOXES ARE TO BE ACCESSIBLE PER NEC ARTICLE 100.

45. NOT ALL ITEMS, NOTES, DETAILS, ABBREVIATIONS, SCHEDULES AND LEGENDS ON THIS SHEET MAY BE APPLICABLE TO THIS PROJECT. 46. INSTALL ALL PLATES SO EDGES ARE FLUSH WITH WALL SURFACE. 47. FOR ALL LED LUMINAIRES, MARK EACH FIXTURE WITH TAG \*, MANUFACTURER, MODEL NUMBER, INSTALLATION DATE, INSTALLING CONTRACTOR AND LENGTH OF WARRANTY. IS. PROVIDE ALL NECESSARY JUNCTION BOXES, SHOWN AND NOT SHOWN, THAT MAY BE

REQUIRED FOR A COMPLETE AND ACCESSIBLE CODE COMPLIANT INSTALLATION. 19. RECEPTACLES INSTALLED WITHIN 6' OF WATER SOURCE SHALL BE GFIC IRREGARDLESS OF PLAN DESIGNATION. COORDINATE INSTALLATION OF RECEPTACLES SHOWN ADJACENT TO MILLWORK WITH ARCHITECTURAL ELEVATIONS 50 THEY ARE ACCESSIBLE. LOCATIONS SHOWN ON PLAN ARE DIAGRAMMATIC. 50. INSTALL A BOX AND SUPPORT FOR A 10LB DYNAMIC LOAD AT ALL CEILING FANS. 51. WHERE A LUMINAIRE IS INSTALLED MOUNTED TO A BOX, INSTALL A BOX AND SUPPORT RATED FOR A 50LB STATIC LOAD. SUCH LUMINAIRES INCLUDE BUT ARE

NOT LIMITED TO EXIT LIGHTS, EGRESS LIGHTING, WALL PACS & WALL MOUNTED 2. WHERE A CONDUCTOR IS TOO LARGE TO TERMINATE TO A BREAKER OR

DISCONNECT, PROVIDE AND INSTALL A STEP DOWN COMPRESSION ADAPTOR OR COUPLER REDUCER. 53. WHERE THREADS ARE FIELD CUT, COAT THE THREADS WITH AN APPROVED

CORROSION RESISTANT, ELECTRICALLY CONDUCTIVE COMPOUND PER NEC 3006. 4. WHERE A TWO POLE OCCUPANCY SENSOR IS INSTALLED, THE BUTTON CLOSEST TO THE DOOR SHALL OPERATE THE LIGHT. 55. WALL LUMINAIRES SHALL BE INSTALLED AFTER WALL FINISHES HAVE BEEN APPLIED.

56. STRUT INSTALLED ABOVE MULTIPLE PANELBOARDS SHALL BE CONTINUOUS IN LIEU OF MULTIPLE SHORT PIECES. 57. WHERE MULTIPLE SWITCHES ARE INSTALLED, THE SWITCH CLOSEST TO THE DOOR

SHALL OPERATE THE LIGHT OF THE ROOM BEING ENTERED. 58. WHEN AVAILABLE, ALL BREAKERS SHALL MATCH EXISTING STYLE AND TYPE, FOR ASSOCIATED PANELBOARD. 9. PROVIDE HACR BREAKERS FOR ALL HVAC EQUIPMENT AND GFCI BREAKERS FOR DRINKING FOUNTAINS.

60. PROVIDE DUAL FUNCTION, GFCI/AFCI BREAKERS FOR DISHWASHERS, PROVIDE AS BUILT DRAWINGS AND A COPY OF APPROVED SHOP DRAWINGS UPON COMPLETION PER FLORIDA ENERGY CODE C405.7.4. 1. INSTALL LUMINAIRES WITH BATTERY TEST SWITCHES WITH THE TEST BUTTON DOWN. 62. INSTALL EQUIPMENT AND SYMBOLS ARE SHOWN ARE DIAGRAMMATIC CONTRACTOR

IS RESPONSIBLE FOR CONFIRMING EXACT DIMENSIONS PRIOR TO CONSTRUCTION. 3. CONTRACTOR SHALL IDENTIFY AND LOCATE STRUCTURAL EXPANSION JOINTS. CONDUITS SHALL ROUTE / BRIDGE BETWEEN BUILDING SLABS AND WALLS USING APPROVED METHODS. REFERENCE NEC ARTICLE 250.98...

NEC 700.10. 65. REFERENCE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT. REFERENCE PLUMBING DRAWINGS FOR EXACT LOCATIONS OF PLUMBING EQUIPMENT. PROVIDE ALL ELECTRICAL COMPONENTS FOR COMPLETE POWER

64. ALL EMERGENCY CIRCUITS SHALL BE INSTALLED IN RACEWAYS COMPLYING WITH

66.BACK TO BACK BOXES SHALL NOT BE INSTALLED. PROVIDE FIRE RATED PADS AS 67. PROVIDE POWER TO ALL MOTORIZED FIRE SMOKE DAMPERS INDICATED ON

MECHANICAL DRAWINGS 68. IF NOT PROVIDED WITH EQUIPMENT, PROVIDE MOTOR STARTER WITH OVERLOAD PROTECTION SIZED IN ACCORDANCE WITH NEC.

69. MAINTAIN SEPARATION AT ALL TIMES BETWEEN LIFE SAFETY, EQUIPMENT AND NORMAL BRANCHES. 10. CONTRACTORS SHALL COMPLY BY ALL APPLICABLE CODES AND STANDARDS AS ADOPTED BY FLORIDA STATE MARSHALL'S RULE CHAPTER 69A-3.012 AND 69A-60, FLORIDA ADMINISTRATIVE CODE (FAC), INCLUDING BUT NOT LIMITED TO, NFPA 101 (2015 EDITION), NFPA 70 (2014 EDITION), NFPA 72 (2013 EDITION), NFPA 99 (2015 EDITION), NFPA 110 (2013 EDITION), FLORIDA BUILDING CODE (2017 EDITION) WITH THE

VERIFY LOCATIONS OF RECEPTACLE, AND DATA OUTLETS REQUIRED FOR ALL MILLWORK AND CABINETS. REFERENCE ARCHITECTURAL ELEVATIONS AND COORDINATE WITH APPROPRIATE TRADES AS REQUIRED.

FGI GUIDELINES FOR DESIGN AND CONSTRUCTION OF HEALTHCARE FACILITIES (2014

## COMPLETION REQUIREMENTS

WITHIN 30 DAYS OF CERTIFIED OCCUPANCY, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SINGLE LINE DIAGRAM OF THE ELECTRICAL DISTRIBUTION SYSTEM WITH FLOOR PLANS INDICATING LOCATION OF AREAS SERVED. ADDITIONALLY, OPERATING AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT SHALL BE PROVIDED ALONG WITH THE NAMES AND ADDRESSES OF A QUALIFIED SERVICE AGENCY.



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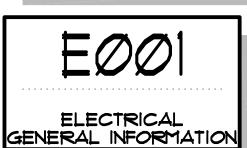
Nestor D. Martinez, P.E. State of Florida 61756

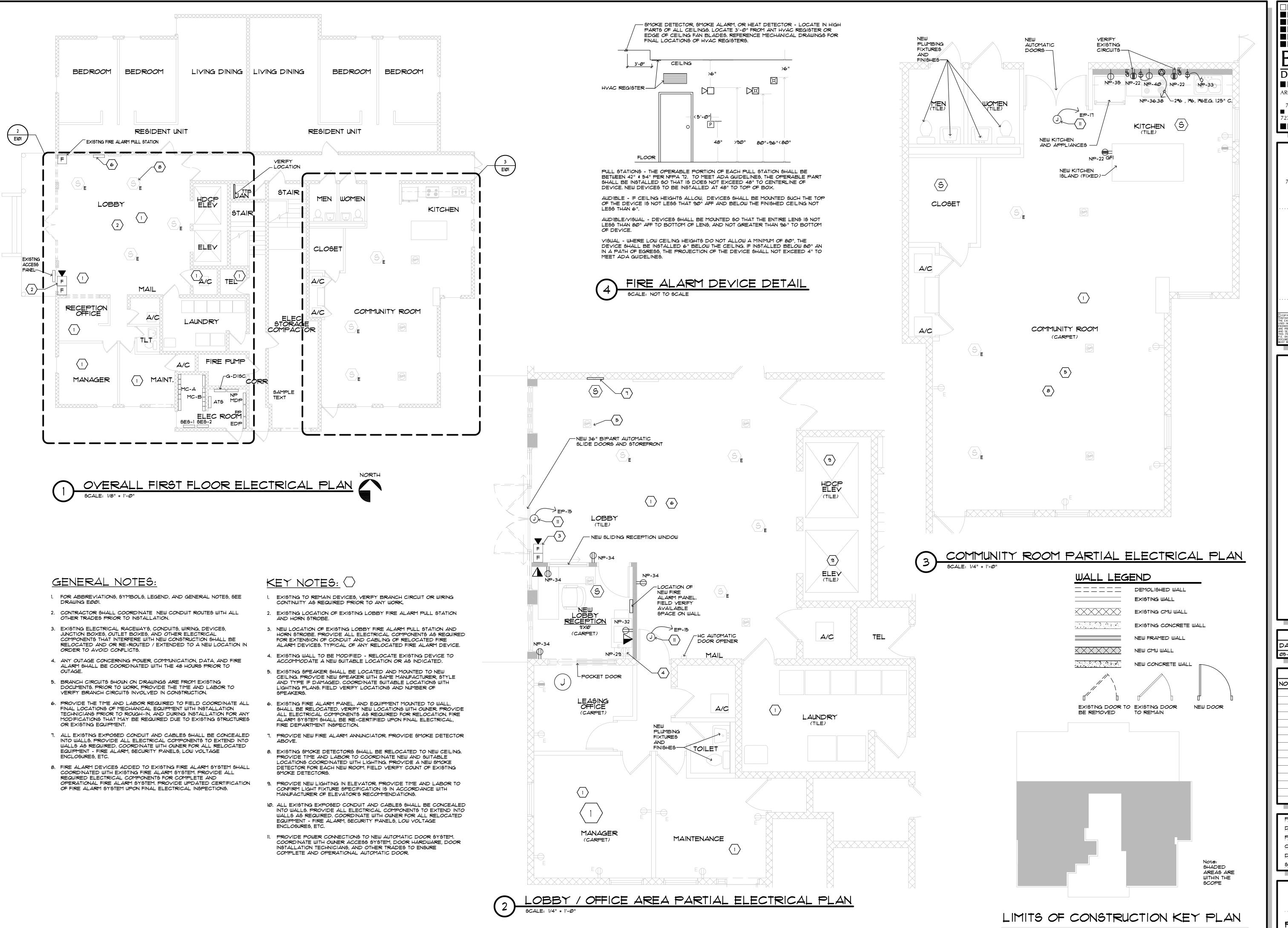
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ISSUED DATE: ISSUED FOR: 05-15-20 CONSTRUCTION DOCUMENTS

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TAILT TIGHTANDS

TOWNER REPORT AVENUE

211 SOUTH PROSPECT AVENUE

CLEARWATER, FL 33156

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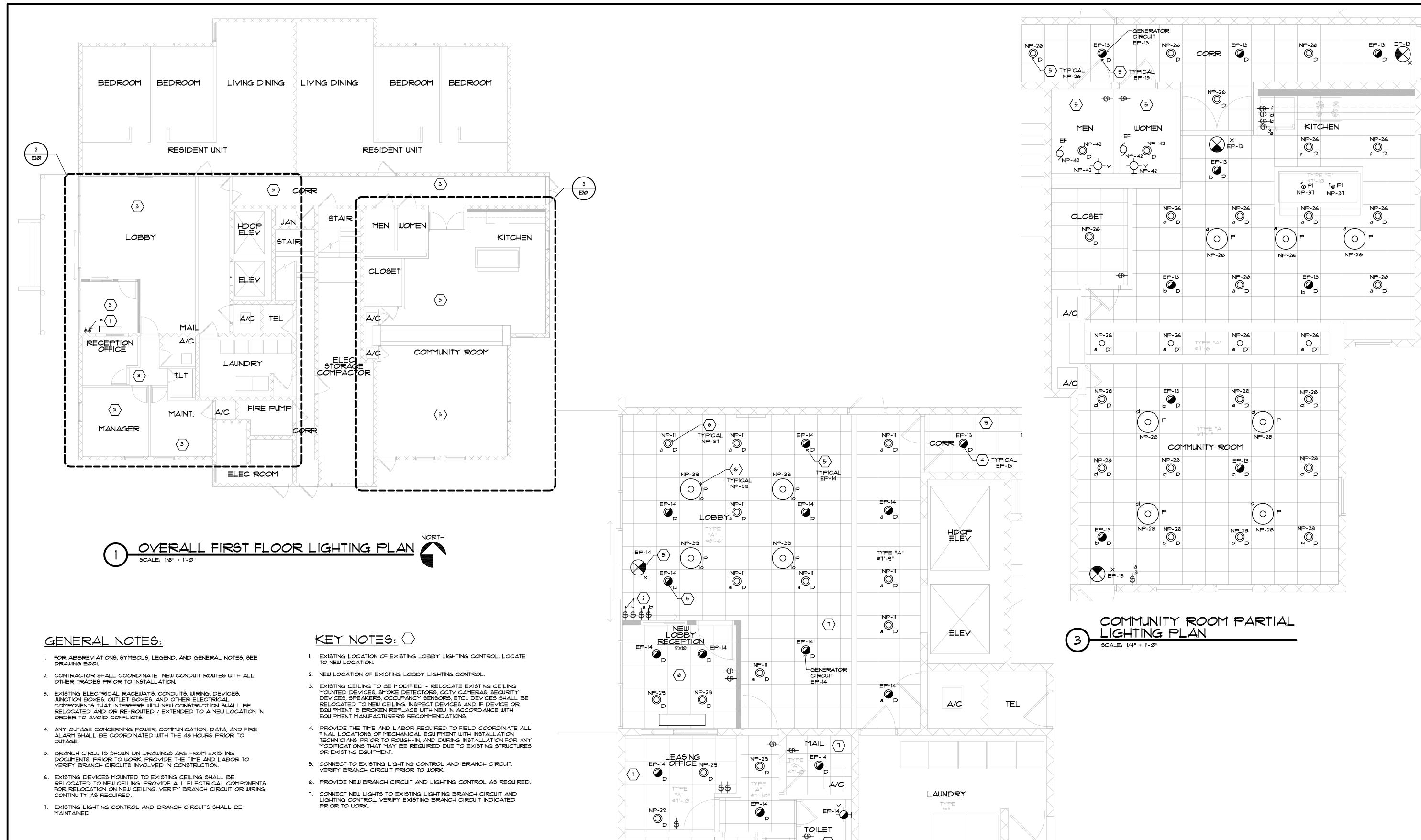
 PROJECT MANAGER:
 RW

 CHECKED BY:
 NDM

 DATE:
 05-15-20

 SCALE:
 1/16" = 1'-0"

OVERALL AND
PARTIAL FIRST FLOOR
ELECTRICAL PLANS



MANAGER

TYPE

7901 4TH ST. NORTH, SUITE 200 ST. PETERSBURG, FL 33702 '27 894-4453 www.bessolo.com ENGINEERS, INC License # EB-0007103 7901 4TH ST. NORTH, SUITE 200 ST. PETERSBURG, FL 33702 (727) 894-4668 PROFESSIONAL SEAL Nestor D. Martinez, P.E. State of Florida 61756

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REVISIONS NO: DATE: DESCRIPTION

> 19080.00 PROJECT NO: PROJECT MANAGER: CHECKED BY: NDM DATE: 05-15-20 AS NOTED

OVERALL FIRST FLOOR AND PARTIAL LIGHTING PLANS

LOBBY / OFFICE AREA PARTIAL LIGHTING PLAN

MAINTENANCE

Ex	isting Panel Name: NP				A.I.C.:	22K					MC.B.:						╝	
ΧI	STING NORMAL POWER				VOLTS:	120/208	/3/60				ML.O.:	225A			Mounted: R	ecess		
			Breaker		KV/	A Phase L	nad		Phase		KV/	A Phase L	nad		Breaker		T	٦
Cir	Circuit Description		Amps	Р	A	В	С	A	- г	C	A	В	С	Р	Amps	Circuit Description	Cir.	+
1	LIGHTS AND RECEPTACLES		20	1	1.00			X		_	1.00			1	20	LIGHTS AND RECEPTACLES	2	-
3	LIGHTS AND RECEPTACLES		20	1	1.00	1.00		<u> </u>	X		1.00	1.00		1	20	LIGHTS AND RECEPTACLES	4	-
5	LIGHTS AND RECEPTACLES		20	1		1.00	1.00		$\vdash$	Х		1.00	1.00	1	20	LIGHTS AND RECEPTACLES	6	-
7	LIGHTS AND RECEPTACLES	$\vdash$	20	4	1.00		1.00	Х	$\vdash$	^	1.00		1.00	1	20	LIGHTS AND RECEPTACLES	8	-
-	LIGHTS AND RECEPTACLES		20	1	1.00	1.00		^	X		1.00	4.00			20	LIGHTS AND RECEPTACLES	_	-
9				1		1.00	0.05		$\vdash$			1.00	4.00	1			10	-
11	LIGHTS AND RECEPTACLES	$\vdash$	20	1	4.00		0.25			Х	4.00		1.00	1	20	LIGHTS AND RECEPTACLES	12	$\dashv$
13	LIGHTS AND RECEPTACLES		20	1	1.00	4.00		X	,,		1.00	4.00		1	20	LIGHTS AND RECEPTACLES	14	-
15	LIGHTS AND RECEPTACLES		20	1		1.00	4.00		X			1.00	4.00	1	20	LIGHTS AND RECEPTACLES	16	-
17	LIGHTS AND RECEPTACLES		20	1			1.00			X			1.00	1	20	LIGHTS AND RECEPTACLES	18	-
19	LIGHTS AND RECEPTACLES		20	1	1.00			X			1.00			1	20	LIGHTS AND RECEPTACLES	20	-
21	LIGHTS AND RECEPTACLES		20	1		1.00			X			1.00		1	20	LIGHTS AND RECEPTACLES	22	-
23	LIGHTS AND RECEPTACLES		20	1			1.00			X			1.00	1	20	LIGHTS AND RECEPTACLES	24	-
25	LIGHTS AND RECEPTACLES		20	1	1.00			X			0.30			1	20	LIGHTS AND RECEPTACLES	26	-
27	LIGHTS AND RECEPTACLES		20	1		1.00			X			0.50		1	20	LIGHTS AND RECEPTACLES	28	
29	LIGHTS AND RECEPTACLES		20	1			0.20			X			1.00	1	20	LIGHTS AND RECEPTACLES	30	
31	LIGHTS AND RECEPTACLES		20	1	1.00			X			1.20			1	20	COPY MACHINE	32	
33	DISPOSAL		20	1		1.25			X			0.90		1	20	NEW RECEPTION	34	
35	REFRIGERATOR		20	1			8.00			Х			2.50	1	20	RANGE	36	П
37	LIGHTING		20	1	0.30			Х			2.50						38	1
39	LIGHTING		20	1		0.25			Х			1.20		1	20	MICRO	40	1
41	SPACE		20	1						χ			0.20	1	20	LIGHTING	42	7
71			20	1						χ				1	20		72	1
71			20	1						Х				1	20		72	-
71			20	1					-	Х				1	20		72	-
71			20	1					-	Х				1	20		72	-
71			20	1					-	X				1	20		72	-
71			20	1					-	x				1	20	+	72	-
71			20	1					$\vdash$	x				1	20	+	72	-
71			20	1					-	x				1	20	+	72	-
71			20	4					-	x				1	20	+	72	-
71			20	4			-		_	x					20	+	72	-
				1					-	_				1				-
71		$\vdash$	20	1					-	X				1	20		72	-
71		$\vdash$	20	1					-	X				1	20		72	-
71		$\vdash$	20	1					-	X				1	20		72	-
71			20	1					-	X				1	20		72	-
71			20	1						X				1	20		72	_
			Sub-Total	l:	6.30	6.50	11.45	J			8.00	6.60	7.70	l				
S	Total Demand KVA		Percent		Α	В	С	]			Α	В	С			* SHUNT-TRIP CIRCUIT BREAKER		_
Н	Heating: ****		80%		0.00	0.00	0.00				13.94	13.09	16.24		KVA			_
L	Lighting:		125%		9.13	9.06	6.81				116.19	109.08	135.35		AMPS	PER 2014 NEC		
R	Receptade: *				4.82	4.03	9.43	]		•								
	Water Heater:		125%		0.00	0.00	0.00	1			Connected	d Ampere	8		129.3631			
	Motor/HVAC/Fan: **		125%		0.00	0.00	0.00	1				-						
	2011		100%				2.55	l			Demand A	mperes:			120.21			
G	General Lighting		50%		0.00	0.00	0.00	l			2 2 7 Salitary	тогоо.						
	Xfmr/Panel/Eqpt:		100%		0.00	0.00	0.00	l										
-	Anni unorega.		10070		0.00	0.00	0.00	1										

	Exi	isting Panel Name: EP			A.I.C.:	22K		]			M.C.B.:		]					
	EXIS	STING NORMAL POWER			VOLTS:	120/208	3/3/60				M.L.O.:	225A	]		Mounted: R	Recess	]	
Т			Breaker		KVA	A Phase I	oad	F	<sup>2</sup> hase	e	KV	'A Phase I	oad		Breaker		Т	Τ
3	Cir.	Circuit Description	Amps	Р	Α	В	С	Α	В	С	Α	В	С	Р	Amps	Circuit Description	Cir.	.†
_	1	LIGHTS AND EQUIPMENT	20	1	1.00			X			1.00			1	20	LIGHTS AND EQUIPMENT	2	1
-	3	LIGHTS AND EQUIPMENT	20	1		1.00			X			1.00		1	20	LIGHTS AND EQUIPMENT	4	1
_	5	LIGHTS AND EQUIPMENT	20	1			1.00	Т		X			1.00	1	20	LIGHTS AND EQUIPMENT	6	1
-	7	LIGHTS AND EQUIPMENT	20	1	1.00			X			1.00			1	20	LIGHTS AND EQUIPMENT	8	1
-	9	LIGHTS AND EQUIPMENT	20	1		1.00			X			1.00		1	20	LIGHTS AND EQUIPMENT	10	7
-	11	LIGHTS AND EQUIPMENT	20	1			1.00	Т		X			1.00	1	20	LIGHTS AND EQUIPMENT	12	
-	13	LIGHTS AND EQUIPMENT	20	1	0.30			X			0.50			1	20	LIGHTS AND EQUIPMENT	14	Ħ
-	15	AUTOMATIC DOOR	20	1		0.80			X			0.00		1	20	SPACE	16	
.	17	AUTOMATIC DOOR	20	1			0.80	Т		X			0.00	1	20	SPACE	18	_
.	19	SPARES	20	1	0.00			X			0.00			1	20	SPACE	20	Ī
-	21	SPARES	20	1		0.00			X			0.00		1	20	SPACE	22	
-	23	SPARES	20	1			0.00	Т		X			0.00	1	20	SPACE	24	
-	25	SPARES	20	1	0.00			X			0.00			1	20	SPACE	26	_
_	27	SPACE	20	1		0.00			X			0.00		1	20	SPACE	28	_
-	29	SPACE	20	1			0.00	Т		X				1	20	SPACE	30	
		-	Sub-Tota	l:	2.30	2.80	2.80				2.50	2.00	2.00			'	-	_
ſ	S	Total Demand KVA	Percent		Α	В	С	1			Α	В	С	1		* SHUNT-TRIP CIRCUIT BREAKER		_
Ì	Н	Healing: ****	80%		0.00	0.00	0.00	1			5.63	6.00	6.00		KVA			_
Ì	L	Lighfing:	125%		4.13	6.00	6.00	1			46.88	50.00	50.00		AMPS	PER 2014 NEC		_
Ī	R	Receptade: *			1.50	0.00	0.00	1								•		_
ı	W	Water Heater:	125%		0.00	0.00	0.00	1			Connecte	ed Ampere	s		40.01779			
Ī	М	Motor/HVAC/Fan: **	125%		0.00	0.00	0.00	1							_			
ı			100%					1			Demand	Amperes:			48.96			
t	G	General Lighting	50%		0.00	0.00	0.00	1										
I	Т	Xfmr/Panel/Eqpt	100%		0.00	0.00	0.00	1										

\*\* = First @ (shown), Remainder @ 100%

		LUMINAIRE SCHEDUL	.E			
TYPE	MANUFACTURER: CATALOG NUMBER	LUMINAIRE DESCRIPTION	LAMP CODE	YOLT	WATTS	REMARKS
А	LITHONIA: 2GTL 2 20L FW A12125 120 EZI LP830 GLR	RECESSED 2×2, ACRLIC LENS	LED	120	3Ø	
D	VANTAGE: A6VEFLED   15 30K 4 L60  WHT	6' APPERATURE RECEESSED IN CEILING	LED	120	25	
ō	JUNO: JSF TIN IØLM 3ØK 9ØCRI 12Ø ZT WH M6	7.5" APPERATURE SLIM FORM FLUSH MOUNT WHITE	LED	120	10	
×	PROGRESS: PEALE-D-R-EM-16	UNIVERSAL MOUNT	LED	120	2	
<u>n</u>	AFX LIGHTING: CZP3044LAJDI6N-WHWH	CORTEZ LED SEMI-FLUSH, SATIN NICKEL, 6" H × 30" DIA	LED	120	60	
Pī	AFX LIGHTING: CZP3044LAJDI6N-WHWH	CORTEZ LED SEMI-FLUSH, SATIN NICKEL, 6" H × 30" DIA	LED	120	60	WITH EXTENSION ROD
<b>Y</b>	KICHLER: 11146NILED	LINEAR LED VANITY LIGHT, BRUSHED NICKEL, 4.75" H × 25.75" W	LED	120	19	

## NEW LUMINAIRE SCHEDULE SCALE: NOT TO SCALE

xisting Load	d Summary					
LOAD		CONNECTE	D		DEMAND	
SES-1		132.5	KVA	*0.35	106	KVA
SES-2		163.5	KVA	*0.35	163	KVA
EDP		132.5	KVA		132.5	KVA
EP		16.5	KVA		16.5	KVA
2EP		10.1	KVA		10.1	KVA
NDP		163.5	KVA		163.5	KVA
NP		36.1	KVA		36.1	KVA
2NP		62.6	KVA		62.6	ΚVA
Α		12	KVA		12	ΚVΑ
В		12	KVA		12	KVA
С		12	KVA		12	KVA
D		12	KVA		12	KVA
ELEV		91.8	KVA		91.8	KVA
FIRE PUMP		120	KVA		120	ΚVA
MC-A		354	KVA	*0.35	123.9	KVA
MC-B		354	KVA	*0.35	123.9	KVA
TOTAL	CONNECTED	1125.1	KVA			
TOTAL	CONNECTED	DEMAND E	ACTOR	*	637.9	Κ\/Δ

	EXISTING PANEL NP			
	DESCRIPTION		ĸw	AMPS
Α	EXISTING PANEL NP LIGHTING EQUIPMENT LOADS	=	36.1	100.28
	NEW EQUIPMENT LOADS	=	11.27	
Α	EXISTING PANEL NP LIGHTING EQUIPMENT LOADS		36.1	_
	ADD NEW LIGHTING LOAD TO NEW PANEL NP LOAD	=	47.37	131.58
	EXISTING PANEL NP ADEQUATE			

	EXISTING PANEL EP			
	DESCRIPTION		кw	AMPS
Α	EXISTING PANEL EP LIGHTING LOADS	=	16.5	45.83
		=		
	NEW LIGHTING LOADS	=	0.86	
Α	EXISTING PANEL EP LIGHTING LOADS		16.5	_
	ADD NEW LIGHTING LOAD TO NEW PANEL EP LOAD	=	17.36	48.22
	EXISTING PANEL EP ADEQUATE FOR NEW LIGHTING			

## GENERAL NOTES:

SUPPORT OF FIXTURE.

CEILINGS.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING ALL CEILING TYPES BEFORE ORDERING FIXTURES - PROVIDE REQUIRED FLANGE PER CEILING TYPE, PROVIDE FOR FIRE AND OR INSULATION RATING AS REQUIRED.
- EACH LUMINAIRE SHALL HAVE BEEN TESTED AND CERTIFIED FOR PROPER OPERATION BY THE LUMINAIRE MANUFACTURER FOR THE TYPE OF CEILING AND MOUNTING ON OR WHICH IT IS INSTALLED.
- 3. LUMINAIRES SHALL BE SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL LAMPS IN EACH LUMINAIRE VERIFY LED LAMP TYPE AND LAMP BASE FOR FIT AND FINISH.
- 4. INSTALL A MINIMUM OF FOUR CEILING SUPPORT SYSTEM RODS OR WIRES FOR EACH LUMINAIRE. LOCATE NOT MORE THAN 6 INCHES (150 mm) FROM FIXTURE
- 5. LAMP TEMPERATURE SHALL BE 3000K, WITH CFI OF 80 MINIMUM.
- 6. CONFIRM LUMINAIRE WEIGHT AND PROVIDE REQUIRED BRACING FOR SECURE
- 1. PRIOR TO ROUGH-IN OF WALL MOUNTED SCONCES, VANITY LIGHTS, PENDANT MOUNTED LUMINAIRES, UNDER / UPPER CABINET LUMINAIRES, AND ART WORK LUMINAIRES, CONTRACTOR SHALL PROVIDE THE TIME AND LABOR TO COORDINATE AND CONFIRM MOUNTING HEIGHTS WITH ELECTRICAL DETAILS, ARCHITECTURAL / INTERIOR ELEVATIONS AND THE APPROPRIATE TRADES IN ORDER TO AVOID CONFLICT WITH MILLWORK, AND DESIGN INTENT.
- 8. ROOMS WITH LUMINAIRES (STORAGE, JANITORS CLOSETS, PUBLIC RESTROOMS, LAUNDRY, ELECTRICAL ROOMS, MECHANICAL ROOMS, OFFICES, MEDICAL, IT ROOMS, BREAK ROOMS, REHABILITATION, ETC... SHALL HAVE LIGHTING CONTROL PROVIDED.
- 9. EMERGENCY BATTERY BACK UP LUMINAIRES SHALL BE CONNECTED TO A LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF SWITCHING. GENERATOR LIGHTING CIRCUITS SHALL BE UTILIZED WHEN NON-GENERATOR BRANCH CIRCUITS ARE UTILIZED IN THE SAME SPACE.
- 10. LOW VOLTAGE LUMINAIRES INSTALLED INTO COVE AND MILLWORK TRANSFORMERS, DRIVERS, WIRING CONDUIT, JUNCTION BOXES, ETC, SHALL
  ACCESSIBLE, AND CONCEALED TO THE GREATEST EXTENT POSSIBLE.
  PROVIDE REQUIRED LABOR IN ORDER TO COORDINATE WITH
  ARCHITECTURAL INTERIOR DESIGN ELEVATIONS, MILLWORK DRAWINGS, AND
  OTHER TRADES IN ORDER TO AVOID CONFLICTS. PROVIDE STRAPS TO
  SUPPORT COVE LIGHTS. SUPPORT LIGHTING WITH STRAPS PROVIDED BY
  MANUFACTURER.
- II. LUMINAIRES THAT ARE SUBSTITUTED SHALL BE SUBMITTED WITH IES FILES FOR A PHOTOMETRIC CONFIRMATION. AN HOURLY FEE SHALL BE CHARGED TO THE CONTRACTOR.
- 12. LUMINAIRES SHALL NOT BE SUPPORTED FROM FIRE RATED CEILINGS. SUPPORT FIXTURES FROM BUILDING STRUCTURE, ABOVE FIRE RATED
- 13. ATTIC ACCESS HATCHES SHALL BE PROVIDED WITH A SWITCH, NEAR ACCESS, AND A PORCELAIN KEYLESS LAMP HOLDER (SYLVANIA \*19281 LED LAMP). REFERENCE NEC 210.63 AND NEC 210.10(AX3).
- 14. LIGHT FIXTURE AND CEILING FAN LOCATIONS SHALL NOT INTERFERE WITH THE OPERATION OF DOORS. PROVIDE THE TIME AND LABOR REQUIRED FOR COORDINATION PRIOR TO ROUGH-IN.
- 15. EACH ROOM SHALL BE PROVIDED WITH A LIGHT FIXTURE AND LIGHTING.
- 16. ALL LED FIXTURES AND FIXTURES WITH LED LAMPS SHALL BE DIMMABLE.
- 17. VERIFY ALL LED LAMPS TO BE COMPLIANT WITH FIXTURE PROVIDED.
- 18. LIGHT FIXTURES LOCATED IN ELECTRICAL AND MECHANICAL ROOMS SHALL BE COORDINATED WITH CONDUITS, DUCT WORK, PIPES, AND BUILDING STRUCTURES. COORDINATE SUITABLE AND ACCESSIBLE LOCATIONS.
- 19. EXIT LIGHTS SHALL BE CONNECTED AHEAD OF LIGHTING CONTROL/BRANCH CIRCUIT FOR THE ASSOCIATE SPACE OR ROOM.
- 20. FIXTURES WITH NON-DIMMABLE LAMP / BALLAST SHALL NOT BE CONNECTED TO A DIMMING CONTROL DEVICE.
- 21. LED RETRO FIT LAMPS REPLACING FLUORESCENT OR INCANDESCENT LAMPS
   CONTRACTOR SHALL CONFIRM COMPATIBILITY OF LAMPS WITH BALLAST,
  DRIVERS, VOLTAGES, DIMMER, AND MANUFACTURER.
- 22. CEILING FANS SHALL NOT BE CONNECTED TO DIMMERS.

BESSOLO

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1 BY NESTOR D. MARTINEZ, P.E.

2 SEEN DIGITALLY SIGNED AND SEALED BY NESTOR D. MARTINEZ AS SEEN DIGITALLY GROUP AND SEALED BY NESTOR D. MARTINEZ P.E.

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ISSUED

DATE: ISSUED FOR:

05-15-20 CONSTRUCTION DOCUMENTS

	REY	1510NS
NO:	DATE:	DESCRIPTION

PROJECT NO: 1908000

DRAWN BY: WG

PROJECT MANAGER: RW

CHECKED BY: NDM

DATE: 05-15-20

SCALE: NOT TO SCALE

ELECTRICAL RISER AND SCHEDULES

