### **GENERAL ELECTRICAL NOTES:**

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL COUNTY CODES AND AMENDMENTS. WIRING METHODS SHALL BE IN ACCORDANCE WITH THE N.E.C., LOCAL CODES AND STANDARDS. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES AND PERMITS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. SCALE DIMENSIONS SHALL NOT BE USED. IN AS MUCH AS THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES, AS MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE SITE, STRUCTURAL, AND FINISH CONDITIONS AFFECTING HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY. FURNISHING SUCH FITTING AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS, AT NO ADDITIONAL COST TO THE OWNER. THE RIGHT TO MAKE ANY REASONABLE CHANGE IN LOCATION OF APPARATUS EQUIPMENT, OUTLETS OR ROUTING OF CONDUIT AND WIRING, UP TO THE TIME OF ROUGHING-IN IS RESERVED BY THE ENGINEER WITHOUT INVOLVING ANY ADDITIONAL EXPENSE TO THE OWNER.
- 3. DRAWINGS REFLECT CONDITIONS THAT ARE BASED ON ORIGINAL BASE BUILDING DRAWINGS AND FIELD SURVEY. EXISTING CONDITIONS MAY NOT BE ACCURATELY SHOWN. FINAL LOCATIONS AND ROUTING TO BE DETERMINED IN FIELD BY CONTRACTOR UPON DEMOLITION / NEW WORK.
- 4. UNLESS OTHERWISE NOTED, CONNECT EXIT LIGHTS, EMERGENCY BATTERY UNITS AND NIGHT LIGHTS (NL) TO UNSWITCHED PORTION OF NORMAL LIGHTING CIRCUIT SERVING RESPECTIVE
- 5. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM, TYPE THW OR THHN INSULATION, INSTALLED IN CONDUIT (1/2" MINIMUM). NO ROMEX OR BX CABLE PERMITTED. MC CABLE MAY BE USED, WHERE PERMITTED BY CODE, FOR WORK ABOVE CEILINGS AND CONCEALED IN WALLS.
- THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWING OR NOT.
- ALL D.C. WIRING SHALL BE #10 AWG MINIMUM.
- THE WIRE SIZE INDICATED IN THE HOMERUN SHALL BE USED THROUGHOUT THE CIRCUIT.
- 9. ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FT. SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
- 10. ELECTRICAL CONTRACTOR TO INCLUDE GROUND WIRE IN ALL RACEWAYS. SIZE RACEWAYS AS NECESSARY TO COMPLY WITH NEC.
- 11. ALL RECEPTACLES LOCATED WITHIN A 6 FEET OF A SINK SHALL BE GFI TYPE.
- 12. GROUND, PHASE AND NEUTRAL CONDUCTORS SHALL BE PIG-TAILED IN OUTLET BOXES OR MULTI-OUTLET ASSEMBLY FOR EACH RECEPTACLE SO THAT GROUND AND ELECTRICAL SERVICE WILL NOT BE DISTURBED TO OTHER RECEPTACLES ON THE SAME MULTI-WIRE CIRCUIT IF RECEPTACLE IS REMOVED. THE GROUNDING TERMINALS OF ALL RECEPTACLES SHALL BE GROUNDED BY AN INSULATED COPPER CONDUCTOR IN ACCORDANCE WITH TABLE 250.122 N.E.C.
- 13. ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 75°C. CONDUCTORS CONNECTED FO TERMINAL LUGS AND EQUIPMENT U.L. LISTED FOR A MINIMUM 75°C. CONDUCTORS TERMINATED ON EQUIPMENT WITH A LOWER RATING (60°C) OR NO RATING SHOWN SHALL HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO N.E.C. TABLE 310-16 AND U.L. NO. 489 REQUIREMENTS.
- 14. ANY NEW CIRCUIT BREAKERS ADDED TO EXISTING PANELS TO FACILITATE WORK SHOWN ON PLANS SHALL MATCH EXISTING IN MANUFACTURER, TYPE, AND AIC RATING.
- 15. SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND CONTACTORS ARE TO BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.
- 16. BRANCH CIRCUIT WIRE SIZES (AND CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT THE VOLTAGE DROP BETWEEN THE PANEL AND
- 17. THE CONTRACTOR SHALL TEST AND BALANCE THE LOADING ON ALL PANELBOARDS AS CLOSELY AS POSSIBLE TO THE SATISFACTION OF THE ENGINEER.
- 18. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS TO INDICATE TYPE OF LOAD SERVED AND AREA SERVED (E.G. RECEPTACLES-OFFICE 201.) AND NOTE PANELBOARD ORIGINNATING POWER SOURCE. REFER TO NEC 408.4(A) AND 408.4(B).
- 19. ELECTRICAL EQUIPMENT REQUIRING ACCESS SUCH AS JUNCTION BOXES OR CONNECTIONS TO EQUIPMENT SHALL NOT BE INSTALLED ABOVE INACCESSIBLE CEILINGS OR BEHIND WALLS. CONTRACTOR SHALL REROUTE ANY EXISTING CONDUIT AND JUNCTION BOXES ABOVE INACCESSIBLE CEILINGS/WALLS WHICH CANNOT BE RELOCATED SHALL BE ABANDONED WITH ALL WIRING REMOVED.
- 20. ALL RECEPTACLES AND JUNCTION BOXES WITH BRANCH CIRCUITING SHALL BE LABELED WITH PANEL DESIGNATION AND CIRCUIT NUMBER. CLEARLY LABEL ON FACE OF COVERPLATE OR PLACE TAG BEHIND COVERPLATE
- 21. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES AND GRID COORDINATION. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR OR CEILING CONTRACTOR TO INSURE THAT ALL CEILING RECESSED LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN
- 22. ELECTRICAL CONTRACTOR SHALL VERIFY ALL DOOR SWINGS WITH THE ARCHITECTURAL PLANS PRIOR TO INSTALLING LIGHT SWITCH BOXES. LIGHT SWITCHES SHALL BE LOCATED ON LOCK SIDE OF THE DOOR UNLESS PHYSICALLY IMPOSSIBLE TO INSTALL IN THIS LOCATION. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION IN THIS EVENT.
- 23. ELECTRICAL CONTRACTOR TO VERIFY EXACT PLACEMENT OF ALL DEVICES SHOWN ON THE ELECTRICAL CONSTRUCTION DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS PRIOR TO FINAL PLACEMENT. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. THE EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES, RECEPTACLES, TELEPHONE/DATA OUTLETS, ETC., SHALL BE DETERMINED FROM ARCHITECTS DRAWINGS UNLESS NOTED OTHERWISE.
- 24. REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS OF THE BUILDING. REFER TO MECHANICAL OR PLUMBING PLANS FOR EXACT LOCATION OF THEIR EQUIPMENT. ELECTRICAL CONTRACTOR BEFORE INSTALLING ANY WORK SHALL MAKE SURE IT DOES NOT INTERFERE WITH CLEARANCES AS SHOWN ON THE ARCHITECTURAL DRAWINGS OR OTHER TRADE DRAWINGS.
- 25. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT REQUIREMENTS WITH ALL TRADES BEFORE INSTALLING CONDUIT OR CONDUCTORS FROM POWER SOURCE TO EQUIPMENT TERMINATION.
- 26. FLUORESCENT FIXTURES MOUNTED ON SUSPENDED CEILINGS SHALL BE SUPPORTED FROM THE FLOOR CONSTRUCTION ABOVE BY MEANS OF A MINIMUM OF FOUR SEPARATE GALVANIZED CHAINS OR WIRES PER FIXTURE, PROVIDE ONE AT EACH CORNER OF THE FIXTURE. EACH CHAIN SHALL BE CAPABLE OF SUPPORTING 100 LBS AND EACH WIRE SHALL BE A MINIMUM OF 12 AWG MILD STEEL. INCANDESCENT, FLUORESCENT OR HID DOWN LIGHT FIXTURES ON SUSPENDED CEILINGS SHALL BE SUPPORTED USING ONE CHAIN OR WIRE AS DESCRIBED ABOVE
- 27. ALL DEVICES SHALL BE MOUNTED TO COMPLY WITH AMERICAN DISABILITIES ACT.
- 28. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES IN STARTERS BASED ON ACTUAL NAMEPLATE RATING ON THE MOTORS BEING INSTALLED.
- 29. CONTRACTOR SHALL NOTE U.L. LABEL/NAMEPLATE ON MECHANICAL EQUIPMENT, OR SHOULD LOCAL INSPECTOR CALL FOR THE OVERLOAD PROTECTIVE DEVICE TO BE FUSED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A FUSED DISCONNECT SWITCH WITH PROPER SIZE FUSES AT THE SWITCH LOCATION AS INDICATED ON THE DRAWINGS.
- 30. ELECTRICAL BOXES IN FIRE RATED PARTITIONS SHALL NOT EXCEED 16 SQUARE INCHES IN AREA (IF 4"x4"), SHALL BE MADE OF STEEL, AND SHALL BE SUCH THAT THE CUMULATIVE AREA OF BOX "CUTOUTS" IN THE FIREWALL DOES NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET OF WALL AREA. ELECTRICAL BOXES ON OPPOSITE SIDES OF THE SAME FIREWALL SHALL BE SEPARATED BY A HORIZONTAL AND VERTICAL DISTANCE OF NOT LESS THAT 24 INCHES. THE ELECTRICAL CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS, AS NECESSARY, TO ELECTRICAL BOX LOCATIONS TO ENSURE COMPLIANCE WITH THIS REQUIREMENT SINCE BOX LOCATIONS ARE TYPICALLY NOT DIMENSIONED ON THE DRAWINGS. CONSULT ARCHITECT IF CLARIFICATION IS REQUIRED.
- 31. ALL PENETRATIONS THRU FIRE RATED WALL ASSEMBLIES SHALL BE PROTECTED WITH AN APPROVED FIRESTOP SYSTEM OR IN ACCORDANCE WITH IBC SECTION 712.3.1 WHERE
- 32. SEAL ALL CONDUIT PENETRATIONS THROUGH RATED WALLS AND FLOORS TO MAINTAIN FIRE INTEGRITY. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL OR FLOOR LOCATIONS
- 33. ELECTRICAL CONTRACTOR SHALL USE CONDULET SEALING FITTINGS WITH APPROVED SEALING COMPOUND ON ALL CONDUITS PASSING FROM INTERIOR TO EXTERIOR OF A BUILDING AND WHERE DIFFERING SPACE TEMPERATURES EXIST.
- 34. AFTER FINAL INSTALLATION, ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR FILLING ALL VOIDS AROUND CONDUIT PENETRATIONS AND OTHER CORE DRILLS/OPENINGS IN SLAB WITH FIRE SAFE REMOVABLE MASTIC; FILL SHALL EQUAL FIRE RATING OF THE FLOOR.

- 35. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID. HE SHALL NOTE EXISTING CONDITIONS, FAMILIARIZE HIMSELF WITH THE LAYOUT OF EXISTING, LIGHTING, POWER SYSTEMS, AND FIRE ALARM IN ORDER TO THOROUGHLY UNDERSTAND THE SCOPE OF THE MODIFICATIONS TO THE PRESENT JOB AND THE EFFECT OF THOSE MODIFICATIONS. SHOULD CONTRACT DOCUMENTS' SCOPE OF WORK DIFFER FROM FIELD CONDITIONS THAT CAUSE AN UPSET IN BID, IT SHALL BE REPORTED TO THE ENGINEER OF RECORD SO REVISED BID DOCUMENTS OR ADDENDUM(S) CAN BE ISSUED. NEGLECT TO VISIT PROPOSED SITE SHALL BE THE ELECTRICAL CONTRACTOR'S SOLE RESPONSIBILITY.
- 36. ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS THAT ARE NOT READILY VISIBLE. THIS INCLUDES BUT IS NOT LIMITED TO: EQUIPMENT. PIPING. DEVICES OR ITEMS THAT ARE LOCATED BELOW GRADE, WITHIN PARTITIONS ENCLOSED IN CHASES OR ABOVE INACCESSIBLE CEILINGS. ALLOWANCES ARE TO BE INCLUDED FOR UNFORESEEN CONDITIONS THAT MAY EFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN ARE TO BE INCLUDED IN THAT ALLOWANCE.
- 37. PROVIDE "HOSPITAL" GRADE RECEPTACLES IN ALL "PATIENT CARE" AREAS AS DEFINED PER NEC ARTICLE 517. THIS SHALL INCLUDE EXISTING RECEPTACLES NOTED TO REMAIN THAT ARE LOCATED WITHIN NEW DESIGNATED PATIENT CARE AREAS.
- 38. CONTRACTOR SHALL INSTALL "HCF" CABLE IN ALL PATIENT CARE AREAS, METAL CLAD (MC), ROMEX AND AC CABLE ARE NOT PERMITTED IN PATIENT CARE AREAS PER NEC ARTICLE 517. COORDINATE PATIENT CARE AREAS WITH OWNER. ALL WIRING IN ALL PATIENT CARE AREAS (EXISTING OR NEW) SHALL COMPLY WITH N.E.C. ARTICLE 517.13 (A) & (B).
- 39. GROUNDING SYSTEM IN PATIENT CARE AREAS SHALL BE TESTED IN ACCORDANCE WITH NEC AND NFPA 99 4.3.3. SUBMIT FINAL REPORT TO OWNER UPON PROJECT COMPLETION.
- 40. UNLESS OTHERWISE SPECIFIED, TELEPHONE AND DATA OUTLETS SHALL HAVE A 3/4" CONDUIT WITH PULL STRING FROM JUNCTION-BOX TO CEILING SPACE FOR EACH GANG. NYLON BUSHINGS SHALL BE PROVIDED AT THE END OF THE CONDUIT LOCATED WITHIN CEILING SPACE.
- 41. TENANT WILL PROVIDE UNDER SEPARATE CONTRACT WITH OTHERS, EQUIPMENT AND CABLING FOR TELEPHONE DATA, INTERCOM AND SECURITY SYSTEMS
- 42. ELECTRICAL CONTRACTOR SHALL COORDINATE ANY POWER REQUIREMENTS WITH SECURITY SYSTEM VENDOR PRIOR TO WALL CLOSING. POWER FOR LOW VOLTAGE TRANSFORMERS FOR CARD ACCESS MAY BE EXTENDED FROM NEAREST RECEPTACLE BRANCH CIRCUIT.
- 43. UPON COMPLETION OF THE ELECTRICAL INSTALLATION, THE CONTRACTOR SHALL DELIVER TO THE OWNER ONE (1) SET OF PRINTS OF ELECTRICAL CONTRACT DRAWINGS WHICH SHALL BE LEGIBLY MARKED IN RED PENCIL TO SHOW ALL ADDITIONS, CHANGES AND DEPARTURES OF THE INSTALLATION AS COMPARED WITH THE ORIGINAL DESIGN. THEY SHALL BE SUITABLE FOR USE IN PREPARATION OF RECORD DRAWINGS.
- 44. ALL 120V AND 277V BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTORS. SHARED NEUTRALS WILL NOT BE PERMITTED FOR MULT-CIRCUIT INSTALLATIONS. WHERE MULTIPLE CIRCUITS ARE RUN IN A COMMON RACEWAY, THE AMPACITY OF THE CONDUCTORS SHALL BE PROPERLY DERATED & CONDUIT SHALL BE SIZED PER CODE. UNDER NO CIRCUMSTANCES SHALL MORE THAN SIX (6) CURRENT CARRYING CONDUCTORS BE RUN IN A SINGLE CONDUIT. REFERENCE NEC ARTICLE AND TABLE 310.15(B)(2)(a).
- 45. CEILING MOUNTED EXIT SIGNS, EBU'S, HORNS, STROBES AND OCCUPANCY SENSORS SHALL BE CENTERED IN THE CEILING TILE UNLESS NOTED OTHERWISE.
- 46. FIRE ALARM SYSTEM LAYOUT SHOWN ON THESE DRAWING IS FOR INFORMATION ONLY. REFER TO FIRE ALARM VENDOR DRAWINGS FOR FINAL APPROVED FIRE ALARM SYSTEM LAYOUT AND DESIGN. CONTRACTOR SHALL CONTRACT THE SERVICES OF A FIRE PROTECTION ENGINEER TO FULLY DESIGN ADDRESSABLE FIRE ALARM SYSTEM AND PROVIDE STAMPED AND SIGNED PERMIT DRAWINGS, INCLUDING ALL CAD DRAWINGS WITH LAYOUT OF ALL DEVICES, REQUIRED CALCULATIONS, SHOP DRAWINGS, EQUIPMENT CUTS, ETC.
- 47. INSULATION SHALL MEET OR EXCEED THE REQUIREMENTS OF UL 83, "STANDARD FOR THERMOPLASTIC INSULATED WIRES" AND THE REQUIREMENTS OF NEC ARTICLE 725 FOR CLASS 2 WIRING. INSULATION OF CABLES USED IN ENVIRONMENTAL AIR SPACES SHALL BE UL—LISTED FOR USE IN AIR PLENUMS.
- 48. CIRCUIT NUMBERS SHOWN ON PLANS ARE FOR CLARITY; AVAILABLE CIRCUITS IN FIELD SHALL
- 49. ELECTRICAL CONTRACTOR TO WORK WITH DAVITA PM TO FULLY UNDERSTAND NEW WORK SCOPE AND EXISTING CONDITIONS

## ABBREVIATIONS LIST

AFF	_	ABOVE FINISHED FLOOR	MOD	-	MOTOR OPERATED DAMPER
C, CDT	_	CONDUIT	MTD	_	MOUNTED
CH	_	COUNTER HEIGHT	NL	_	NIGHT LIGHT
DN	-	DOWN	RX	1-	REMOVE EXISTING
DWG	-	DRAWING	TC	-	TIME CLOCK
EF	-	EXHAUST FAN			
FAAP	_	FIRE ALARM ANNUNCIATOR PANEL	UG	_	UNDERGROUND
FABP	_	FIRE ALARM BOOSTER PANEL	W/	-	WITH
FACP	_	FIRE ALARM CONTROL PANEL	WH	-	WATER HEATER
GRD	_	GROUND	WP	_	WEATHERPROOF
GFI	_	GROUND FAULT INTERRUPTER	WR	_	WEATHER RESISTANT
IG	_	ISOLATED GROUND	XFMR	-	TRANSFORMER
мн	_	MOUNTING HEIGHT	XR	-	EXISTING TO REMAIN

# **LEGEND:**

<b>1→</b> [ XR	0	\$xR	Фхв	NEW LIGHTING FIXTURE OR DEVICE  EXISTING LIGHTING FIXTURE OR DEVICE TO REMAIN  RELOCATED LIGHTING FIXTURE OR DEVICE, NEW LOCATION
REX REX	<u> </u>	REX \$	REX (f.	"REX" DENOTES EXISTING LIGHTING FIXTURE OR DEVICE TO BE RELOCATED. REFER TO NEW WORK PLAN FOR NEW LOCATION DESIGNATED WITH 'R'.

BE REMOVED

"RX" DENOTES EXISTING LIGHTING FIXTURE OR DEVICE TO

JUNCTION BOX

OTHERWISE NOTED.

OTHERWISE NOTED

AS NOTED

OUTLET-TELEPHONE - WALL MOUNTED M.H. 1'-6" UNLESS

OUTLET - VOICE/DATA WALL MOUNTED M.H. 1'-6" UNLESS

PANELBOARD 120/208 VOLTS - NEW, EXISTING

CONTROL DEVICE BY EQUIPMENT CONTRACTOR

MOTOR-SINGLE PHASE, THREE PHASE, HORSEPOWER

RATING AS REQUIRED) C - DENOTES CEILING MOUNTED

ANNUNCIATOR PANEL OR TERMINAL PANEL-AS NOTED

FIRE ALARM - AUDIBLE SPEAKER AND VISUAL FLASHER (CANDELA

2#12+G UNLESS

NOTED OTHERWISE

FIRE ALARM-VISUAL FLASHER (CANDELA RATING AS REQUIRED)

DISCONNECT SWITCH-UNFUSED, FUSED

HEATING ELEMENT-CAPACITY AS NOTED

FIRE ALARM-PULL STATION M.H. 4'-0"

BRANCH CIRCUIT-IN CEILING OR WALLS

BRANCH CIRCUIT-IN OR UNDER FLOOR

BRANCH CIRCUIT-EXPOSED ON CEILING

OF CONDUCTORS WHEN MORE THAN 2+G.

HOMERUN TO PANEL-LETTER AND NO. INDICATES

OUTLET - TELEVISION WALL WITH RING AND STRING

INTERCOM STATION-'M'-DENOTES MASTER STATION-

SCHEDULE. POWER PACK/RELAY ABOVE CEILING.

PASSIVE TECHNOLOGY OCCUPANCY WALL SWITCH WATTSTOPPER # PW-100 OR SENSOR SWITCH EQUAL

MOUNTED AT HEIGHT SHOWN ON PLANS.

CEILING MOUNTED DAYLIGHTING CONTROLLER. REFER TO

EQUIPMENT MONITORING DEVICE. PROVIDE OUTLET BOX

OUTLET BOX FOR CARD ACCESS WITH BLANK COVER - M.H. 4'-0"

PROVIDE 3/4" EMPTY CONDUIT STUBBED TO ACCESSIBLE CEILING

CEILING MOUNTED OCCUPANCY SENSOR CONTROL FOR LIGHTS IN

ROOM (EXCEPT NIGHT LIGHTS). REFER TO OCCUPANCY SENSOR

OCCUPANCY SENSOR SCHEDULE. POWER PACK/ RELAY ABOVE

CIRCUIT NUMBER. NO. OF CROSSLINES INDICATES NO.

LOW VOLTAGE CONTROL WIRING

'C'-DENOTES CALL STATION

C - DENOTES CEILING MOUNTED

FIRE ALARM-SMOKE DETECTOR

FIRE ALARM-HEAT DETECTOR

DRY TYPE TRANSFORMER

GROUND CONNECTION

TO CEILING SPACE

TIMECLOCK

CEILING.

SECURITY KEYPAD

OR WALLS

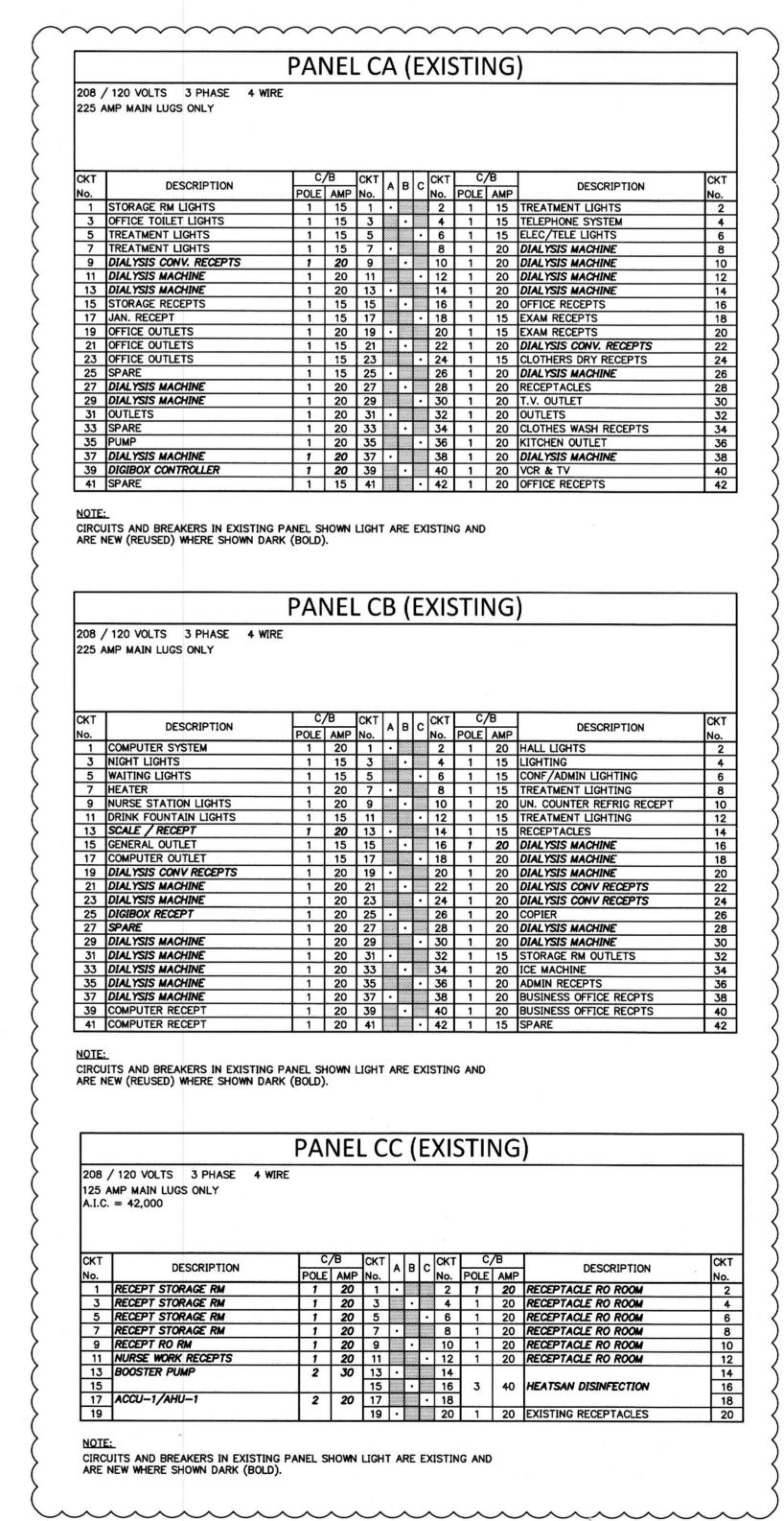
ENCLOSED CIRCUIT BREAKER

	ELEC	TRICAL SYMBOLS LIST	<del>\</del>	MAIN ELECTRIC ROOM	<del></del>	TREATMENT AREA	RO EQ
<u>S</u>	YMBOL	DESCRIPTION					
<u>o</u> [	ু ⊢	FIXTURE-FLUORESCENT-CEILING, WALL, STRIP	EX. INCOM SERVICE	MING 600A FEEDER.		EX. 100A FEEDERS FROM PANI	EL MDP.
0	Ol	FIXTURE-INCANDESCENT/FLUORESCENT- CEILING, WALL BRACKET			EX. 3P600A FUSED		
	A	FIXTURE-INCANDESCENT-FLOODLIGHT/EMERGENCY LIGHT		_	SERVICE DISCONNE SWITCH.		
	<b>Ø</b> 1⊗1	EXIT LIGHT-CEILING, WALL, WITH DIRECTIONAL ARROWS					<u> </u>
	4	EMERGENCY BATTERY UNIT, WALL MOUNTED			MDP CA	<u>CB</u>	
\$	\$ <sup>3</sup> \$ <sub>a</sub>	SWITCH-SINGLE POLE, THREEWAY, SUBSCRIPT DENOTES OUTLET CONTROLLED M.H. 4'-0"		F			
	\$ <sup>M</sup>	SWITCH-MOTOR RATED					
	\$°	SWITCH-DUAL TECHNOLOGY OCCUPANCY SENSOR TYPE M.H. 4'-0" REFER TO OCCUPANCY SENSOR SCHEDULE.				X. 100A FEEDER FROM PANEL	
⊕ #=		RECEPTACLE-20A-125 VOLTS-DUPLEX, DOUBLE DUPLEX M.H. 1'-6"	EX. POWER CO CT CABINET/METER EX. 8"x8" WIREWAY WITH 600A CONDUCTORS.				
	<b>=</b>	RECEPTACLE-DUPLEX-COUNTER HEIGHT-20A-125 VOLT					
	<b>()</b> H	SPECIAL RECEPTACLE AS NOTED		EX. F	POWER RISE	ER DIAGRAM	

# EX. POWER RISER DIAGRAM

NO SCALE

NOTE: EXISTING WORK IS SHOWN LIGHT, NEW IS SHOWN DARK (BOLD) AND FUTURE WORK IS SHOWN LIGHT AND DASHED.



DaVita Healthcare Partners, In 2000 16th Street Denver, CO 80202

RO EQUIPMENT

FLOOR

ARCHITECTURAL 1213 Old Pylesville Road

PACILITY MAINTENA

DaVita Dialy

Richmond P

Whiteford, MD 21160 Office 410-452-8006 Fax 410-452-8046

E-103.02