

GENERAL NOTES

- A. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 1999 NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES.
- B. CONNECT EXIT LIGHTS, EMERGENCY BATTERY UNITS AND NIGHT LIGHTS (NL) TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SERVING RESPECTIVE AREA.
- C. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM, TYPE THHN/THHN INSULATION, INSTALLED IN CONDUIT (1/2" MINIMUM). NO ROMEX OR BX CABLE PERMITTED. NO CABLE MAY BE USED, WHERE PERMITTED BY CODE, FOR WORK ABOVE CEILINGS AND CONCEALED IN WALLS.
- D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES AND GRID COORDINATION. VERIFY THAT ADEQUATE CLEARANCE FOR INSTALLATION, MAINTENANCE AND HEAT DISSIPATION IS AVAILABLE BEFORE ORDERING LIGHTING FIXTURES.
- E. ELECTRICAL CONTRACTOR SHALL VERIFY ALL VOLTAGES OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- F. THE WIRE SIZE INDICATED IN THE HOMERUN SHALL BE USED THROUGHOUT THE CIRCUIT.
- G. SEAL ALL CONDUIT PENETRATIONS THRU RATED WALLS AND FLOORS TO MAINTAIN FIRE INTEGRITY. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE WALL LOCATIONS.
- H. ALL BRANCH CIRCUITS SHALL BE RUN CONCEALED IN EXISTING AND NEW WALLS. CUT AND PATCH EXISTING WALLS AND SURFACES AS REQUIRED.
- I. GROUND, PHASE AND NEUTRAL CONDUCTORS SHALL BE PIG-TAILED IN OUTLET BOXES OR MULTI-OUTLET ASSEMBLY FOR RECEPTACLES SO THAT GROUND AND ELECTRICAL SERVICE TO OTHER RECEPTACLES ON THE SAME MULTI-WIRE CIRCUIT WILL NOT BE DISTURBED IF A RECEPTACLE IS REMOVED.
- J. ELECTRICAL CONTRACTOR SHALL USE CONDULET SEALING FITTINGS WITH APPROVED SEALING COMPOUND ON ALL CONDUITS PASSING FROM INTERIOR TO EXTERIOR OF A BUILDING AND OF THE INTERFACE OF WIDELY DIFFERENT SPACE TEMPERATURE.
- K. CONTRACTOR SHALL USE HEALTH CARE FACILITY CABLING (HCF) IN ALL PATIENT CARE AREAS. REFER TO ARCHITECTURAL FLOOR PLANS FOR DESIGNATION OF "AMBULATORY/PATIENT CARE" AREAS AND BUSINESS USE AREAS.
- L. PROVIDE HOSPITAL GRADE RECEPTACLES IN THE PATIENT CARE AREA PER NEC 517 AND AS DIRECTED BY LOCAL AUTHORITY HAVING JURISDICTION.
- M. ALL WORK SHALL BE IN COMPLIANCE OF NFPA 90 AND 99 IN THE AMBULATORY CARE PORTION OF THE TENANT SPACE.

DEMOLITION NOTES

- D1. ALL ACCESSIBLE ITEMS OF ELECTRICAL EQUIPMENT CONDUITS, WIRING, LIGHTS, RECEPTACLES, ETC. AFFECTED BY THE RENOVATION WORK AND NOT REQUIRED IN THE COMPLETED WORK SHALL BE CAREFULLY REMOVED. DAMAGED WALLS, FLOORS, CEILINGS, ETC. SHALL BE PATCHED AND FINISHED TO MATCH THE EXISTING ADJACENT SURFACES. REMOVED ITEMS SHALL BE PROPERLY DISPOSED OF OFF SITE AND NOT RE-USED EXCEPT AS NOTED. TURN OVER ALL EXISTING EQUIPMENT DESIRED BY BUILDING OWNER. ITEMS TO BE RE-USED SHALL BE CAREFULLY REMOVED AND STORED IN A PROTECTED AREA.
- D2. REMOVE EXISTING CIRCUITS IN PANELS NOT REQUIRED FOR COMPLETED WORK. UTILIZE EXISTING BREAKERS FOR NEW WORK SHOWN. PROVIDE NEW BREAKERS AS REQUIRED TO SERVE NEW CIRCUITS. LABEL ALL BREAKERS NOT USED AS SPARE.
- D3. RECONNECT CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT NOTED TO REMAIN AS WELL AS ADJACENT AREAS WHICH ARE NOT IN CONTRACT.
- D4. REMOVE CONDUIT AND WIRE BACK TO SOURCE.

LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS	MOUNTING	DESCRIPTION/VOLTAGE	CATALOG NO.
A	3-F32T8 3500K	RECESSED	2x4' FLUORESCENT TROFFER WITH ACRYLIC PRISMATIC LENS AND ELECTRONIC BALLAST. 120V	LITHONIA #25P6 332 A12 120 6EB
AI	3-F32T8 3500K	RECESSED	2x4' FLUORESCENT TROFFER WITH ACRYLIC PRISMATIC LENS AND ELECTRONIC BALLAST. 120V	LITHONIA #25P6 332 A12 120 6EB
B	3-F32T8 3500K	RECESSED	2x4' FLUORESCENT TROFFER WITH 3" DEEP, 18 CELL, PARABOLIC LOUVER AND ELECTRONIC BALLAST. 120V	LITHONIA #2PM66B 332 18LD 120 6EB
C	2-40W A19	SURFACE	INCANDESCENT WALL SCONCE. 120V.	VISA LIGHTING CB4020 SAL
D	2-F32T8 3500K	SURFACE	4' FLUORESCENT STRIP FIXTURE WITH ELECTRONIC BALLAST. 120V	LITHONIA C 232 120 6EB
E	1-F32T8 CIRCLINE	SURFACE	FLUORESCENT CIRCLINE FIXTURE - 120V	LITHONIA #10921
F	1-60W PAR20	TRACK	INCANDESCENT TRACK HEAD WITH WHITE FINISH. 120V	LITHONIA LTC FLT8 PAR20 MB WH
T1	-	SURFACE	SINGLE CIRCUIT TRACK WITH WHITE FINISH. 120V.	LITHONIA #LT SERIES
T2	-	SURFACE	TWO CIRCUIT TRACK WITH WHITE FINISH. 120V.	LITHONIA #L2T SERIES
X	LED	UNIVERSAL	LED "X-RAY" IN USE" SIGN WITH WHITE HOUSING, GREEN LETTERS. 120V.	LITHONIA #LEPNR120M "X-RAY" IN USE"
	LED	UNIVERSAL	LED EMERGENCY EXIT SIGN WITH WHITE HOUSING, GREEN LETTERS AND INTEGRAL BATTERY/CHARGER. 120V	LITHONIA #LGM SERIES
	2-BW HALOGEN	SURFACE	INCANDESCENT EMERGENCY BATTERY UNIT WITH INTEGRAL BATTERY/CHARGER. 120V	LITHONIA #6ELM2 SERIES

NOTE: LIGHT FIXTURES SHALL BE LITHONIA OR EQUAL

PANEL 'EP' LOAD SUMMARY

200A, 120/208V, 3Ø, 4 WIRE

LOAD	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
LIGHTING	6.7	125%	8.38
RECEPTACLES	11.4	*	11.4
MOTORS	-	100%	-
ELECTRIC HEAT	-	100%	-
HEATING	** 5.67	100%	5.67
AIR CONDITIONING	** 1.67	100%	1.67
WATER HEATER	-	100%	-
KITCHEN EQUIPMENT	-	65%	-
FUTURE	8.0	100%	8.0
25% OF LARGEST MOTOR	5	100%	5
TOTAL (WINTER LOAD)			33.95

- * FIRST 10.0 KVA AT 100%, BALANCE OF LOAD AT 50% KVA (NEC 220-13)
- ** HEATING AND AIR CONDITIONING ARE NON-SIMULTANEOUS LOAD
- *** ALL TRACK LIGHTING LOADS BASED ON 1999 NATIONAL ELECTRIC CODE OF 75 WATTS/LINEAR FOOT OF TRACK.

PANEL 'LP1' LOAD SUMMARY

200A, 120/208V, 3Ø, 4 WIRE

LOAD	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
LIGHTING	6.3	125%	7.9
RECEPTACLES	15.7	*	12.85
MOTORS	-	100%	-
ELECTRIC HEAT	22.7	100%	22.7
HEATING	** 16.0	100%	16.0
AIR CONDITIONING	** 8.0	100%	8.0
WATER HEATER	6.0	100%	6.0
KITCHEN EQUIPMENT	-	65%	-
SHOW WINDOW LIGHTING	-	125%	-
25% OF LARGEST MOTOR	2.0	100%	2.0
TOTAL (WINTER LOAD)			67.5

- * FIRST 10.0 KVA AT 100%, BALANCE OF LOAD AT 50% KVA (NEC 220-13)
- ** HEATING AND AIR CONDITIONING ARE NON-SIMULTANEOUS LOAD
- *** ALL TRACK LIGHTING LOADS BASED ON 1999 NATIONAL ELECTRIC CODE OF 75 WATTS/LINEAR FOOT OF TRACK.

ELECTRICAL SYMBOLS LIST

NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF THE OUTLET BOX UNLESS OTHERWISE INDICATED.

SYMBOL	DESCRIPTION
	FIXTURE-FLUORESCENT-CEILING, WALL, STRIP
	DEVOTES FIXTURE ON EMERGENCY OR NIGHT LIGHT CIRCUIT
	FIXTURE-CEILING, WALL, BRACKET
	FIXTURE-TRACK LIGHTING
	EXIT LIGHT-CEILING, WALL, WITH DIRECTIONAL ARROWS
	FIXTURE-H.I.D.-CEILING, WALL, BRACKET
	EMERGENCY BATTERY UNIT, REMOTE HEAD
	SWITCH-SINGLE POLE, THREEWAY M.H. 48"
	SWITCH-DIMMER M.H. 48"
	SWITCH-MOTOR RATED
	RECEPTACLE-20A-125 VOLTS-DUPLEX COUNTER HEIGHT
	RECEPTACLE-20A-125 VOLTS-DUPLEX, DOUBLE DUPLEX, 'E' INDICATES OUTLET ON EMERGENCY, 'H' INDICATES HOSPITAL GRADE
	JUNCTION BOX
	OUTLET-TELEPHONE/DATA-WALL M.H. 14"
	OUTLET-TELEPHONE-WALL M.H. 54"
	OUTLET-DATA-WALL M.H. 14"
	PANELBOARD 120/208 VOLTS-M.H. 6'-6" TO TOP
	TELEVISION OUTLET-WALL M.H. 1'-8"
	NURSE CALL DOME LIGHT - REFER TO SCHEDULE
	ENCLOSED CIRCUIT BREAKER
	DISCONNECT SWITCH-UNFUSED, FUSED M.H. 5'-6" TO TOP
	MOTOR-SINGLE PHASE, THREE PHASE, HORSEPOWER AS NOTED
	HEATING ELEMENT-CAPACITY AS NOTED
	FIRE ALARM-PULL STATION M.H. 3'-10"
	FIRE ALARM-AUDIBLE SIGNAL AND VISUAL FLASHER
	FIRE ALARM-VISUAL FLASHER
	FIRE ALARM CONTROL PANEL
	DRAWING NOTE
	GROUND CONNECTION
	BRANCH CIRCUIT-IN CEILING OR WALLS
	BRANCH CIRCUIT-IN FLOOR
	BRANCH CIRCUIT-UNDERGROUND
	BRANCH CIRCUIT-EXPOSED ON CEILING OR WALLS
	HOMERUN TO PANEL-LETTER AND NO. INDICATES CIRCUIT NUMBER. NO. OF CROSSLINES INDICATES NO. OF CONDUCTORS WHEN MORE THAN 3.

ABBREVIATIONS

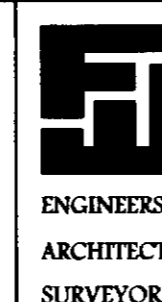
AFF - ABOVE FINISHED FLOOR	MTD - MOUNTED
C - CONDUIT	NEC - NATIONAL ELECTRIC CODE
CH - COUNTER HEIGHT	NL - NIGHT LIGHT
DWS - DRAWING	UG - UNDERGROUND
EF - EXHAUST FAN	W - WITH
GRD - GROUND	WP - WEATHERPROOF
GFI - GROUND FAULT INTERRUPTER	XR - EXISTING TO REMAIN
MH - MOUNTING HEIGHT	

NOTICE TO CONTRACTORS:

ALL CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITIONS THAT DIFFER FROM THAT SHOWN ON THIS PLAN SHALL BE REPORTED TO ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATIONS TO SCOPE OF WORK WHICH RESULT FROM CONTRACTORS NEGLIGENCE TO VISIT THE SITE PRIOR TO SUBMITTING BID, SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY.

REV#	DATE	DESCRIPTION

dp
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SURVEYORS Columbia, Maryland Warrenton, Virginia

TENANT RENOVATIONS FOR:
RMS LIFE LINE
RIVERSIDE, CALIFORNIA

DATE 9/11/01	DRAWING NO.
SCALE AS NOTED	
DESIGNED BY M.J.B.	SHEET 1 OF 4
DRAWN BY M.J.B.	TVA JOB NUMBER 2011215.00