

### LIGHTING

- 2x4 FLUORESCENT FIXTURE
- ASSOCIATED CONTROL DEVICE
- FLUORESCENT LIGHT FIXTURE (SEE SCHEDULE)
- 1x4 FLUORESCENT FIXTURE
- 2x2 FLUORESCENT FIXTURE
- FIXTURE WIRED TO UNSWITCHED EMERGENCY CIRCUIT
- FIXTURE WIRED TO SWITCHED EMERGENCY CIRCUIT
- DOWN LIGHT
- FLUORESCENT STRIP
- WALL MOUNTED FIXTURES
- TRACK LIGHTING
- POLE MOUNTED SITE LIGHTING FIXTURE
- FIXTURE TYPE (SEE LIGHT SCHEDULE)
- FLOOD LIGHT
- WALL WASH LIGHT FIXTURE
- EXIT SIGN, CEILING MOUNTED SHADING INDICATES SIGN FACE
- EXIT SIGN, WALL MOUNTED SHADING INDICATES SIGN FACE
- DUAL HEAD EMERGENCY LIGHT BATTERY PACK TO - TIME DELAY RESET
- REMOTE EMERGENCY LIGHTING HEAD
- WALL PACK
- 3-WAY TOGGLE SWITCH
- SINGLE POLE TOGGLE SWITCH
- INDICATES CONTROLLED FIXTURE
- 4-WAY TOGGLE SWITCH
- DUAL LEVEL SWITCHING
- DIMMER SWITCH, INCANDESCENT OR FLUORESCENT AS REQUIRED.
- TOGGLE SWITCH WITH PILOT LIGHT
- TIMER SWITCH, SPRING WOUND
- SINGLE POLE DOUBLE THROW TOGGLE SWITCH, CENTER POSITION OFF
- WEATHER PROOF
- EXPLOSION PROOF
- UNSWITCHED CONTINUATION OF BRANCH CIRCUIT
- HOME RUN
- OCCUPANCY SENSOR
- INDICATES CONTROLLED FIXTURE
- INDICATES AIMING DIRECTION
- OCCUPANCY SENSOR RELAY
- DAYLIGHT SENSOR
- LIGHTS CONTROLLED BY SENSOR

### COMMUNICATION & DATA SYSTEMS

- TELEPHONE SYSTEM WALL JACK
- TELEPHONE SYSTEM WALL MOUNTED AT 60" AFF
- TELEPHONE SYSTEM WALL MOUNTED AT 18" AFF
- INDICATES PATHPHONE
- INDICATES 2 OUTLETS, SINGLE BOX
- DATA SYSTEM OUTLET
- COMBINATION VOICE/DATA SYSTEM OUTLET
- UNDERFLOOR TELEPHONE SYSTEM OUTLET
- UNDERFLOOR DATA SYSTEM OUTLET
- UNDERFLOOR VOICE & DATA OUTLET
- CABLE TELEVISION SYSTEM OUTLET, MOUNT 18" AFF UNLESS OTHERWISE NOTED
- CLOSED CIRCUIT TELEVISION OUTLET, MOUNT 18" AFF UNLESS OTHERWISE NOTED
- PAGING SYSTEM CONTROL PANEL AND PAGING AMPLIFIER
- PAGING SYSTEM SPEAKER, CEILING MOUNTED
- PAGING SYSTEM SPEAKER, WALL MOUNT AT 7'-6" AFF
- 1. FLUSH, 2. SURFACE, 3. HORN, 4. DUAL HORN
- VOLUME CONTROL
- INTERCOM SYSTEM HAND KEY
- CLOCK SPEAKER
- INTERCOM SYSTEM HAND SET
- WALL MOUNTED CLOCK
- CEILING MOUNTED TELEPHONE SYSTEM OUTLET
- CEILING MOUNTED DATA SYSTEM OUTLET
- CEILING MOUNTED VOICE & DATA OUTLET

### POWER

- NON-FIBER SAFETY SWITCH
- AMPERE RATING
- NEMA ENCLOSURE RATING
- FUSED SAFETY SWITCH, TOP NUMBER INDICATES SWITCH AMPERE RATING, LOWER NUMBER INDICATES FUSE RATING
- NEMA ENCLOSURE
- MAGNETIC MOTOR STARTER, FVAR UNLESS INDICATED OTHERWISE
- NEMA SIZE (TYPICAL)
- COMBINATION FUSED DISCONNECT/MAGNETIC MOTOR STARTER
- COMBINATION FUSED DISCONNECT/AMPERE RATING/FUSE
- NON-FUSED DISCONNECT/MAGNETIC MOTOR STARTER
- FIRST NUMBER INDICATES CIRCUIT BREAKER AMPERE RATING
- SECOND NUMBER INDICATES NEMA STARTER SIZE
- MANUAL MOTOR STARTER, TOGGLE OPERATED, 1, 2 OR 3 POLE AS REQUIRED, OVERLOAD PROTECTION
- MANUAL MOTOR SWITCH, TOGGLE OPERATED, SINGLE PHASE, 1 OR 2 POLE AS REQUIRED (NO OVERLOAD PROTECTION)
- ENCLOSED CIRCUIT BREAKER
- AMPERE RATING
- ELECTRIC MOTOR, NUMBER INDICATES HORSEPOWER RATING
- EXPLOSION PROOF MOTOR
- VARIABLE AIR VOLUME CONTROL ACTUATORS
- LOCAL SELECTOR SWITCH
- 1/2/3/4 - 1/4/0/1/2/1/0
- EMERGENCY OFF BREAK GLASS STATION
- PUSHBUTTON STATION
- JUNCTION BOX
- TRANSFORMER
- POWER POLE
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- EY CONDUIT SEAL
- DUPLEX RECEPTACLE, NEMA 5-20R, INSTALLED ON EMERGENCY CIRCUIT (TYPICAL)
- GFI DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE GFCI DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE ISOLATED GROUND DUPLEX RECEPTACLE, NEMA 5-20R
- DOUBLE DUPLEX (QUADRUPEX) RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R
- SWITCHED RECEPTACLE
- FLOOR OUTLET, DUPLEX RECEPTACLE, NEMA 5-20R AS NOTED.
- POWER RECEPTACLE, 480 VOLT NEMA CONFIGURATION AS NOTED.
- POWER RECEPTACLE, 240 VOLT NEMA CONFIGURATION AS NOTED.
- PANELBOARD, NORMAL POWER
- PANELBOARD, EMERGENCY POWER
- MULTI OUTLET ASSEMBLY

### GROUNDING

- GROUND ROD
- EXOTHERMIC WELD CONNECTION
- BOLTED CONNECTION
- BARE COPPER CONDUCTOR
- BARE COPPER CONDUCTOR RUN EXPOSED
- BARE COPPER CONDUCTOR EMBEDDED IN CONCRETE OR BURIED

### NURSE CALL SYSTEM

- NURSE CALL CALL LIGHT
- PATIENT CALL BUTTON
- NURSE CALL PULL CORD
- NURSE CALL MASTER STATION

### FIRE ALARM

- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR
- FIRE ALARM MASTER BOX
- FIRE ALARM MANUAL PULL STATION
- FIRE ALARM SPEAKER/STROBE UNIT
- FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (GENERAL EVACUATION)
- FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (LOCAL)
- CLEAN ROOM NOTIFICATION (LOCAL)
- CEILING MOUNTED
- CANDELA INTENSITY-15/75 UNLESS OTHERWISE NOTED
- PHOTOELECTRIC SMOKE DETECTOR, CEILING MOUNTED
- INDICATES AUXILIARY CONTACT.
- FIXED TEMPERATURE HEAT DETECTOR, CEILING MOUNTED.
- INDICATES EQUIPMENT INTERLOCKED WITH THE DETECTOR
- CLEAN ROOM SMOKE DETECTOR
- INDICATES EQUIPMENT INTERLOCKED WITH THE SMOKE DETECTOR
- COMBINATION RATE-OF-RISE/FIXED TEMPERATURE HEAT DETECTOR, CEILING MOUNTED
- DUCT SMOKE DETECTOR, PHOTOELECTRIC WITH AUXILIARY CONTACT.
- SPRINKLER SYSTEM FLOW SWITCH
- SPRINKLER SYSTEM TAMPER SWITCH
- FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER
- INTERLOCK RELAY
- SMOKE DAMPER
- DUCT SMOKE DETECTOR REMOTE TEST INDICATOR
- KNOX BOX

### SECURITY SYSTEMS

- DOOR CONTACT
- CARD READER
- KEY PAD
- CLOSED CIRCUIT TELEVISION CAMERA
- ELECTRIC STRIKE

### ONE LINE DIAGRAM

- MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER
- LOW VOLTAGE DRAWOUT CIRCUIT BREAKER
- SHUNT TRIP
- GROUND FAULT
- ELECTRICALLY OPERATED
- MOLDED CASE CIRCUIT BREAKER
- DISCONNECT, ISOLATION OR SAFETY SWITCH
- FUSED CUTOUT
- FUSED LOAD BREAK SWITCH
- MEDIUM VOLTAGE MOTOR STARTER
- MAGNETIC MOTOR STARTER, NUMERICAL
- INDICATES OVERLOAD PROTECTION
- FVAR - FULL VOLTAGE REVERSING
- RE - REDUCING VOLTAGE AUTO TRANSFORMER
- ZS - TWO SPEED
- CAPACITOR
- VARIABLE FREQUENCY DRIVE
- POWER TRANSFORMER
- LIQUID TYPE SELF COOLED
- FA - FA - PAN SELF COOLED CONNECTION
- SHIELDED ISOLATION TRANSFORMER
- POTENTIAL TRANSFORMER
- 480/120 - RATIO NUMBER REQUIRED
- CURRENT TRANSFORMER
- 600/5 - RATIO NUMBER REQUIRED
- GROUND FAULT CURRENT TRANSFORMER
- MOTOR, NUMBER INDICATES HORSEPOWER
- GENERATOR
- ATS - AUTOMATIC TRANSFER SWITCH
- MIS - MANUAL TRANSFER SWITCH
- METER
- AMMETER
- V - VOLT METER
- W - WATT METER
- KWH - WATT HOUR METER
- KVAR - KILOWATT METER
- VAR - VAR METER
- PZ - FREQUENCY METER
- PF - POWER FACTOR METER
- DIGITAL POWER METER
- METER TRANSFER SWITCH
- AS - AMMETER SWITCH
- VS - VOLT METER SWITCH
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- LIGHTNING ARRESTOR
- KEY INTERLOCK
- FUSE
- ELECTRONIC POWER FUSE
- DRAWOUT DEVICE
- GROUND

### ABBREVIATIONS

A-AMP	AMPERE	LA	LIGHTNING ARRESTER
AFG	ABOVE FINISHED GRADE	LTG	LIGHTNING
AFI	ABOVE FINISHED INTERIOR	MC	METAL CLAD
AIC	AMPERE INTERRUPTING CAPACITY	MFR	MANUFACTURER
AMS	AMERICAN WIRE GAUGE	M	MINERAL INSULATED
B	BELLY	M	MOUNTED
BS	BELOW FINISHED GRADE	MV	MEDIUM VOLTAGE
C	CABLE	NC	NORMALLY CLOSED
CATV	CABLE TELEVISION	NEG	NEGATIVE ELECTRICAL CODE
CCV	CLOSED CIRCUIT TELEVISION	NEUT	NEUTRAL
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMAL OPEN
CT	CURRENT TRANSFORMER	NTS	NOT TO SCALE
DACT	DIGITAL ALARM COMMUNICATOR	PF	POWER FACTOR
DB	DISCONNECT	PVC	POLYVINYL CHLORIDE
DN	DOWN	RGS	RIGID STEEL CONDUIT
EMC	ELECTROMAGNETIC INTERFERENCE	RTD	RESISTANCE TEMPERATURE DETECTOR
FAC	FIRE ALARM ANNUNCIATOR	SN	SOLID NEUTRAL
FAP	FIRE ALARM CONTROL PANEL	STT	SHIELDED TWISTED TRIPLET
FU	FUSE	SWB	SWITCHBOARD
FME	FURNISHED WITH EQUIPMENT	TOR	TOP OF ROOF
GEN	GENERATOR	TRANS	TRANSFORMER
GRD	GROUND	TRNSF	TRANSFORMER
HP	HORSEPOWER	TVSS	TRANSIENT VOLTAGE SUPPRESSOR
IC	ISOLATED	V	VOLT
IMC	INTERMEDIATE METAL CONDUIT	VA	VOLT-AMPERE
IP	INDUSTRIAL PIPING	VM	VOLTMETER
K	KILOVOLT	WM	WATT METER
KV	KILOVOLT	WP	WEATHER PROOF
KVA	KILOVOLT-AMPERE	XMR	EXPLOSION PROOF
KVAR	KILOVOLT-AMPERE REACTIVE		
KW	KILOWATT		
KWH	KILOWATT-HOUR		

### GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC).
- ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE PROVIDED BY DIVISION 18000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
- UNLESS OTHERWISE NOTED CONVENIENCE RECEPTACLES SHALL BE MOUNTED 18-INCHES AFF, LIGHTING TOGGLE SWITCHES 48-INCHES AFF, DATA SYSTEM OUTLETS 18-INCHES AFF, FIRE ALARM MANUAL PULL STATIONS 54-INCHES AFF, FIRE ALARM MANUAL PULL STATIONS 48-INCHES AFF TO TOP OF DEVICE.
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
- ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS SHALL BE PAINTED RED.
- AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH EVERY FEEDER AND BRANCH CIRCUIT.
- UNLESS OTHERWISE NOTED WIRING SHALL BE 2 #12 AWG CONDUCTORS & #12 GND, HOME RUNS FED FROM 20A-1P CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10 AWG.
- FLEXIBLE CONNECTIONS TO MOTORS SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, UNLESS OTHERWISE NOTED.
- LIQUID TIGHT SWITCHES SHALL BE COMMERCIAL SPECIFICATIONS GRADE AND UL LISTED, WIRING AND PROVIDED WITH GROUNDING SCREW, LEVITON, PASS AND SEMOUR OR APPROVED EQUAL. COORDINATE COLOR WITH ARCHITECT.
- CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATIONS GRADE GROUNDING TYPE NEMA 5-20R, SIDE WIRE, LEVITON, PASS AND SEMOUR OR APPROVED EQUAL. COORDINATE COLOR WITH ARCHITECT.
- PROVIDE WALL PLATES FOR ALL WIRING DEVICES, NYLON SMOOTH TYPE IN FINISHED AREAS AND GALVANIZED IN UNFINISHED AREAS.
- ALL WIRING SHALL BE 600V, COPPER WITH THHN/THWN INSULATION.
- EXPOSED WIRING TO BE RUN IN EMT AND WRING ABOVE CEILING & IN WALL CAVITIES TO BE TYPE MC CABLE.

### ISSUED FOR PERMIT/CONTRACT

6-11-04

CURRENT ISSUE STATUS:

REV.	DESCRIPTION	DATE
0	ISSUED FOR PERMIT/CONTRACT	6-11-04

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PROJECT: LEGEND & GENERAL NOTES

SHEET TITLE: NONE DATE: 6-11-04  
PROJECT MANAGER: JIH GRAPHIC SCALE: 1" = 10'  
JOB CAP/DRAWN: DJM/JAM  
A/E OF RECORD: DJT  
SHEET NO: E-001  
PROJECT NO: 03137

GENERAL NOTE  
1. ALL GENERAL NOTES, SYMBOL LISTS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.