## LEGEND – GENERAL

| CLG. | WALL | DESCRIPTION |
|---|---|---|
| | | JUNCTION BOX, MTD 1'-6" AFF UNLESS NOTED OTHERWISE |
| | | NEW LIGHTING OR LIGHTING/POWER PANELBOARD |
| | | EXISTING LIGHTING OR LIGHTING/POWER PANELBOARD |
| NO. OF CKTS. IN CONDUIT. PHASE CONDUCTORS, NEUTRAL, GROUND | | HOME RUN TO PANEL–ARROWHEADS INDICATE CIRCUITS. WIRE INDICATED ARE GREEN GROUND, NEUTRAL AND THREE HOT LEGS (A DIFFERENT PHASE FOR EACH CIRCUIT). MAXIMUM THREE CIRCUITS PER CONDUIT. ALL WIRING SHALL BE #12 AWG UNLESS OTHERWISE NOTED. |
| | | RISER UP |
| | | RISER DOWN |

## LEGEND – LIGHTING SYSTEM, INTERIOR

| CLG. | WALL | DESCRIPTION |
|---|---|---|
| | | WALL MOUNTED FLUORESCENT LIGHT |
| | | WALL MOUNTED NIGHT LIGHT |
| | | ARTICULATING ARM INCANDESCENT LIGHT |
| | | WALL MOUNTED LIGHT (INCANDESCENT, HID, OR FLUORESCENT). |
| OR | | DOWNLIGHT (ROUND OR SQUARE) |
| | | FLUORESCENT LIGHT FIXTURE. |
| | | LIGHT FIXTURE CONNECTED TO EMERGENCY CIRCUIT |

NOTE: SUBSCRIPT IN CAPITAL LETTERS INDICATES TYPE OF FIXTURE, SEE FIXTURE SCHEDULE.

## GENERAL NOTES:

G1 MINIMUM SIZE CONDUCTOR FOR ALL WIRING 120V AND GREATER SHALL BE #12 AWG UNLESS NOTED OTHERWISE.

## LEGEND – SWITCHES

| WALL | DESCRIPTION |
|---|---|
| | NOTE: MOUNTING HEIGHT FOR THE FOLLOWING SWITCHES SHALL BE 40" AFF; IN ELECTRIC CLOSET, MECHANICAL ROOMS, MOUNTING HEIGHT SHALL BE 48" AFF. |
| S | SINGLE POLE SWITCH WITH SUFFIX a,b,c, ETC. INDICATES CONTROL OF FIXTURE(S) WITH SAME DESIGNATION(S). |
| $S_D$ | DIMMER SWITCH |

NOTE: ALSO SEE VA CONSTRUCTION STANDARD CD-28.

| CLG | WALL | DESCRIPTION |
|---|---|---|
| | $S_E$ | EXISTING SWITCH TO REMAIN |
| | | OUTLET AND INCANDESCENT FIXTURE IN PLACE TO REMAIN |
| | | EXISTING FLOURESCENT FIXTURE TO REMAIN |
| —X— | | EXISTING CONDUIT AND WIRE TO BE REMOVED |
| —E— | | EXISTING CONDUIT AND WIRE TO REMAIN |
| X | | PLACED ADJACENT TO DEVICE SYMBOL DENOTES EQUIPMENT SHALL BE REMOVED. |
| E | | PLACED ADJACENT TO DEVICE SYMBOL DENOTES EXISTING EQUIPMENT TO REMAIN |
| ◆ | | PLACED ADJACENT TO DEVICE SYMBOL DENOTES EXISTING EQUIPMENT TO BE RELOCATED |

SYMBOLS – REWIRING AND DEMOLITION

## LEGEND – RECEPTACLES

| CLG. | WALL | DESCRIPTION |
|---|---|---|
| | GFI | DUPLEX RECEPTACLE (HOSPITAL GRADE) – 20A, MTD. 18" AFF UNLESS OTHERWISE NOTED. SUBSCRIPT "GFI" INDICATES GROUND FAULT TYPE, "WP" INDICATES OUTDOOR WEATHER PROOF. |
| | | DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT – 20A, MTD 18" AFF UNLESS OTHERWISE NOTED WITH 1/4" "EMERGENCY" ENGRAVED LETTERS FILLED WITH RED ENAMEL. |

NOTE: ALSO SEE VA CONSTRUCTION STANDARD CD-28

## LEGEND – TELEPHONE & DATA

| CLG. | WALL | DESCRIPTION |
|---|---|---|
| | ▼ | TELEPHONE/DATA OUTLET, MOUNTED 18" AFF UNLESS NOTED OTHERWISE. |
| | ▼ | PACS DATA OUTLET, MOUNTED 18" AFF UNLESS NOTED OTHERWISE. |

## LEGEND – NURSE CALL

| CLG. | WALL | DESCRIPTION |
|---|---|---|
| $N_D$ | | DOME LIGHT |
| | N | EMERGENCY CALL WITH PULLSTRING |
| | $N_1$ | SINGLE PATIENT STATION, WEST-CALL SPS/2000-CEJ, WITH PILLOW SPEAKER AND STRYKER BED COMMUNICATION INTERFACE. |

## ABBREVIATIONS

| ABBREV. | DESCRIPTION |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| C | CONDUIT |
| CB, C/B CKT BKR | CIRCUIT BREAKER |
| CKT | CIRCUIT |
| DN | DOWN |
| EXIST | EXISTING |
| ELEC | ELECTRIC |
| G,GND | GROUND |
| GFI | GROUND FAULT INTERRUPTER |
| JB | JUNCTION BOX |
| LTS | LIGHTS |
| LTG | LIGHTING |
| MLO | MAIN LUGS ONLY |
| P | POLE |
| PBPU | PREFABRICATED BEDSIDE PATIENT UNIT |
| PNL | PANEL |
| RECEPT | RECEPTACLE |
| V | VOLTAGE |
| W | WIRE |
| W/ | WITH |
| XFMR | TRANSFORMER |

## TITLE: JCM VA MEDICAL CENTER DATA AND TELEPHONE WIRING

1. INSTRUCTIONS TO INSTALLERS (PROVIDE TO ALL CONSTRUCTION CONTRACTORS)
A. MUSKOGEE VA AND ALL CBOC'S SHALL HAVE CAT 5E CABLE BLUE FOR PHONES AND GRAY CABLE FOR DATA A & B.
B. TULSA CBOC SHALL HAVE CAT 5E CABLE GREY FOR PHONES AND BLUE CABLE FOR DATA A & B.

A. ALL WALL JACKS MUST BE LABELED PERMANENTLY IN THE FOLLOWING MANNER: BUILDING-FLOOR-JACK NUMBER-ROOM NUMBER OF CLOSET. EXAMPLE: 1-1-33-148B (BUILDING 1, FLOOR 1, JACK 33, CLOSET ROOM NUMBER 148B. DO NOT INCLUDE ANY DASHES IN THE ROOM NUMBER.) THE JACK NUMBER INDICATES THE PUNCH DOWN/POSITION OF THE CLOSET CONNECTION. ALL JACKS ON THE SAME PLATE SHOULD HAVE THE SAME NUMBER IF POSSIBLE. EXCEPTIONS MUST BE CLEARLY INDICATED ON THE PLATE AND IN THE CLOSET. BE AWARE OF THE FACT THAT WIRING ON THE ISLANDS AT NURSING WORKSTATIONS IS NORMALLY CONNECTED TO THE WIRING CLOSET ON THE FLOOR BELOW. THE PLATE/JACK LABELS MUST REFLECT THIS. ALL WALL PLATES SHALL BE AS FOLLOWS:
WALL PLATE NUMBERS
M14-246 QUADPLEX (SYSTIMAX SOLUTIONS)

B. ALL WIRING MUST BE PUNCHED DOWN AT THE WALL JACK AND IDF ACCORDING TO THE FOLLOWING COLOR CODES AND STANDARDS:
A. PHONE WALL JACKS WILL BE BLUE AND WILL BE LOCATED AT THE UPPER LEFT SIDE OF THE WALL PLATE. THEY WILL BE PUNCHED DOWN ACCORDING TO THE TIA-568-B WIRING STANDARD. IN THE WIRING CLOSET THE BLUE CABLE WILL BE PUNCHED DOWN ON THE FOLLOWING EQUIPMENT: ALL PHONE WALL JACKS SHALL BE AS FOLLOWS:
JACK PART NUMBERS
MPS100E-318 BLUE (SYSTIMAX SOLUTIONS)

C. THE DATA A JACK WILL BE ORANGE AND WILL BE LOCATED ON THE UPPER RIGHT SIDE OF THE PLATE. IT WILL BE WIRED ACCORDING TO THE TIA-568-B WIRING STANDARD AS SHOWN BELOW. IT WILL BE PUNCHED DOWN IN THE WIRING CLOSET ON THE PATCH PANEL ACCORDING TO THE COLOR CODE SHOWN ON THAT PANEL. ALL DATA A JACKS SHALL BE AS FOLLOWS:
JACK PART NUMBERS
MPS100E-112 ORANGE DATA A (SYSTIMAX SOLUTIONS)

D. THE DATA B JACK WILL BE RED AND WILL BE LOCATED ON THE LOWER LEFT SIDE OF THE PLATE. IT WILL BE WIRED ACCORDING TO THE TIA-568-B WIRING STANDARD AS SHOWN BELOW. IT WILL BE PUNCHED DOWN IN THE WIRING CLOSET ON THE 110 WIRING BLOCK ACCORDING TO THE COLOR CODE SHOWN ON THAT PANEL. ALL DATA B JACKS SHALL BE AS FOLLOWS:
JACK PART NUMBERS
MPS100E-317 RED DATA B (SYSTIMAX SOLUTIONS)

E. THE TERMINATIONS IN THE WIRING CLOSETS SHALL BE ON THE FOLLOWING PUNCH DOWN BLOCKS.
*MUSKOGEE VA – 110 WIRING BLOCKS / 48 PORT PATCH PANELS
*TULSA OPC DATA- 48 PORT PATCH PANELS (ONLY)/PHONES 110 WIRING BLOCKS
*MUSKOGEE ADMIN LEASE – 48 PORT PATCH PANELS.
*TULSA 11TH STREET – 48 PORT PATCH PANELS.
**ANY OTHER CBOC SITE PLEASE CONTACT IRMS.

NETWORK/TELEPHONE JACK WIRING (AT WALL PLATE)

| Pin # | TIA-568-B | TIA-568-B Color |
|---|---|---|
| 1 | White/Orange | |
| 2 | Orange/White | |
| 3 | White/Green | |
| 4 | Blue/White | |
| 5 | White/Blue | |
| 6 | Green/White | |
| 7 | White/Brown | |
| 8 | Brown/White | |

IN THE TABLE ABOVE THE PREDOMINANT COLOR IS LISTED FIRST.
WHITE/ORANGE=WHITE WITH ORANGE STRIPE.
CONTACT IRMS HELP DESK AT EXTENSION 3746 IF YOU HAVE QUESTIONS CONCERNING WIRING INSTALLATION.
ALL MATERIALS USED MUST "MATCH EXISTING".

## GENERAL NOTES:

1. NEW BRANCH CIRCUITS SHALL NOT HAVE SHARED NEUTRALS. EACH CIRCUIT FED FROM A SINGLE POLE CIRCUIT BREAKER SHALL HAVE ITS OWN NEUTRAL.
2. CONTRACTOR SHALL LABEL ALL SWITCHES AND RECEPTACLES IN ENTIRE CONSTRUCTION AREA, NEW AND EXISTING, WITH PANEL NAME AND CIRCUIT NUMBER. USE ENGRAVED OR PRINTED LABELS.
3. ALL JUNCTION BOX COVERS AND ALL CONDUITS THAT CONNECT TO JUNCTION BOXES, NEW AND EXISTING IN CONSTRUTION AREA, SHALL BE MARKED WITH PANEL AND CIRCUIT INFORMATION. USE BLACK PERMANENT MARKER.
4. CONTRACTOR SHALL HIRE AND PAY ALL FEES AND COSTS OF TELEPHONE/DATA CONTRACTOR TO INSTALL ALL CABLING, TERMINATIONS, AND WIRING DEVICES INDICATED. THE CONTRACTOR SHALL COORDINATE WITH THE COTR TO SELECT A TELEPHONE/DATA CONTRACTOR THAT IS ACCEPTABLE TO THE OWNER.
5. ALL CONTRACTOR PERSONNEL ARE REQUIRED TO ATTEND THE OSHA TRAINING TO MEET THE OWNER'S REQUIREMENTS. ALL CONTRACTOR PERSONNEL ARE REQUIRED TO COMPLETE SECURITY CLEARANCE REQUIREMENTS.
6. NO WORK IN WALLS OR CEILING SHALL BE COVERED PERMANENTLY UNTIL COTR APPROVES WORK BEING COVERED.
7. MINIMUM SIZE CONDUCTOR FOR ALL WIRING 120V AND GREATER SHALL BE #12 AWG UNLESS NOTED OTHERWISE.

## NURSE CALL NOTES:

1. CONTRACTOR SHALL HIRE AND PAY ALL FEES AND COSTS OF PENDERGRAPH SYSTEMS INC. (918-835-8403) TO REMOVE, REUSE, AND INSTALL ALL NURSE CALL WORK UNDER THIS CONTRACT. THE SYSTEM IS WEST CALL AND PENDERGRAPH IS THE LOCAL AUTHORIZED INSTALLER FOR THIS SYSTEM.
2. IN ALL ROOMS THAT GET NEW PBPU'S, THE NURSE CALL INSTALLED IN PBPU SHALL BE REPLACED WITH NEW. NEW NURSE CALL SINGLE PATIENT SHALL BE WEST-CALL SPS-2000/CEJ.
3. WHERE NEW PBPU'S ARE INSTALLED, NEW PILLOW SPEAKERS WITH CALL BUTTONS, TELEVISION CONTROL, AND LIGHTING CONTROL SHALL BE PROVIDED, PLUS (2)-SPARE PILLOW SPEAKERS.
4. WHERE PBPU'S ARE INSTALLED, BED INTERFACE JACK FOR COMMUNICATIONS SHALL BE PROVIDED AND CONNECTED. NO INTERFACE THAT REQUIRES A CONVERTER WILL BE ACCEPTED.
5. ALL NEW NURSE CALL WORK SHALL BE FULLY INTEGRATED INTO EXISTING NURSE CALL SYSTEM, CONSISTENT WITH EXISTING WORK TO PROVIDE A COMPLETE, FUNCTIONING SYSTEM.

## DATA AND TELEPHONE NOTES:

1. EXISITNG PBPU'S HAVE TELEPHONE/DATA TRIPLEX JACKS. NEW PBPU'S SHALL BE SIMILARLY INSTALLED WITH NEW FACEPLATES AND JACKS.
2. CABLING MAY BE REUSED WHERE IT IS LONG ENOUGH TO REACH THE NEW PBPU JACKS WITHOUT SPLICE. WHERE CABLES ARE TOO SHORT TO REACH, REMOVE AND REPLACE CABLE BACK TO COMMUNICATION CLOSET, TERMINATE BOTH ENDS, AND VERIFY PROPER OPERATION. WHERE CABLES ARE LONG ENOUGH TO REACH THE NEW PBPU JACKS, REUSE THE CABLING, PROPERLY ROUTE CABLES, TERMINATE AT PBPU JACKS, AND VERIFY PROPER OPERATION.

CAD#24829 OCT-17-13

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

| Revisions: | Date |
|---|---|
| | |

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ELECTRICAL LEGENDS

Project Title: ICU Headwall Relocation, Jack C. Montgomery VA Medical Center
Project Number: 623-10-107
Building Number: 53
Location: V.A.M.C. Muskogee, OK
Date: 5/23/12
Checked:
Drawn:
Drawing Number: E101
28 of 38 Sheets

VA FORM 08-6231