SECOND & THIRD FLOOR ALTERNATE OFFICE CUBICLE AREA

REFER TO THE ARCHITECTURAL PLANS FOR A PROPOSED "OPEN OFFICE" AREA LAYOUT ON THE THIRD FLOOR. PROVIDE APPROXIMATELY (20) TYPE "A2" 2X4 LIGHTS, (6) CEILING TYPE VACANCY SENSOR UNITS, (4) LOW VOLTAGE LIGHT SWITCHES, (18) QUADRAPLEX RECEPTACLES, (4) FLOOR FED FURNITURE POWER FEEDS, (4) FLOOR FED FURNITURE DATA FEEDS, (8) '4D' DATA OUTLETS AND (2) FIRE ALARM AUDIO/VISUAL UNITS.

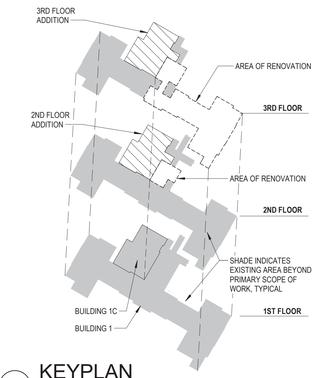
TAGGED NOTES

##	
L1	PROVIDE 120V/1Ø POWER FROM RECEPTACLE CIRCUIT SERVING COUNTER TOP RECEPTACLES BELOW.
L13	ROUTE NUMBER OF #12 CONDUCTORS AND ONE (1) #12 GROUND AS INDICATED IN 3/4" CONDUIT TO NEAREST AVAILABLE NEW / SPARE 20A/1P BREAKER(S) IN EXISTING PANEL INDICATED. VERIFY EXACT PANEL LOCATION(S) AND BRANCH CIRCUITING ROUTES PRIOR TO CONSTRUCTION. WHERE EXISTING PANEL IS FLUSH-MOUNTED IN AN EXSITING WALL TO REMAIN, CONTRACTOR SHALL CUT, PATCH, AND REPAIR WALL AS REQUIRED FOR CONCEALED CONDUIT ENTRY.
L14	PROVIDE FIXTURE TYPE "TL" LED TAPE LIGHTING AROUND FULL PEREMITER OF STAINED GLASS WINDOW. REFER TO LIGHT FIXTURE SCHEDULE FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
C. ALL DEVICE COVERPLATES SHALL BE #302 STAINLESS STEEL. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. ENGRAVE DEVICE COVERPLATES FOR IDENTIFICATION. ALL JUNCTION BOXES (LABEL INTERIOR OF BOX WHERE "IN WALL" SWITCHES AND OUTLET BOXES) SHALL BE LABELED WITH THE VOLTAGE, PHASE, CIRCUIT NUMBER AND PANEL OF ORIGIN. A BLACK MARKER SHALL BE ACCEPTABLE FOR JUNCTION BOX LABELING. ALL CONDUCTORS IN A SINGLE CONDUIT / CONDUIT BODY SHALL ORIGINATE FROM THE SAME PANEL. THE GROUND CONDUCTOR SHALL BE BONDED TO THE BOX AT ANY DEVICE OR JUNCTION BOX WHICH HAS CONNECTIONS IN IT.
D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
F. WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.
G. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
H. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
I. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
J. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

1 SECOND FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"
0 2' 4' 8' 16' 24' 32'



KEYPLAN
1" = 100'-0"

Revisions:	Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

ARCHITECT/ENGINEER OF RECORD

A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

STAMP
STATE OF KANSAS — ROBERT ANTHONY HANS — 21246 — LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: SECOND FLOOR PLAN - LIGHTING	Phase: BID DOCUMENTS	Project Title: VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY	Project Number: 589-701
Approved:		Location: WICHITA, KANSAS	Building Number: 1 & 1C
		Issue Date: 05/22/2020 / Checked: PDY / Drawn: RAH	Drawing Number: ES201

5/21/2020 5:47:08 PM
C:\Users\rhepping\Documents\VKMR19 ELEC R18_2_rhepping\E22JR.rvt
VA FORM 08 - 6231

SECOND & THIRD FLOOR ALTERNATE OFFICE CUBICLE AREA

REFER TO THE ARCHITECTURAL PLANS FOR A PROPOSED "OPEN OFFICE" AREA LAYOUT ON THE THIRD FLOOR. PROVIDE APPROXIMATELY (20) TYPE "A2" 2X4 LIGHTS, (6) CEILING TYPE VACANCY SENSOR UNITS, (4) LOW VOLTAGE LIGHT SWITCHES, (18) QUADRAPLEX RECEPTACLES, (4) FLOOR FED FURNITURE POWER FEEDS, (4) FLOOR FED FURNITURE DATA FEEDS, (8) '4D' DATA OUTLETS AND (2) FIRE ALARM AUDIO/VISUAL UNITS.

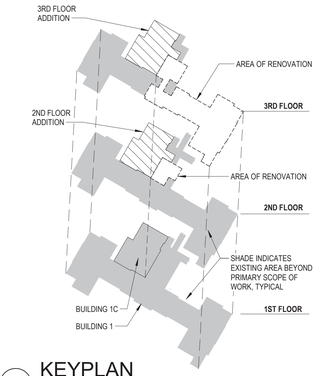
TAGGED NOTES (##)

L1	PROVIDE 120V/1Ø POWER FROM RECEPTACLE CIRCUIT SERVING COUNTER TOP RECEPTACLES BELOW.
L6	REFER TO ENLARGED PLAN OF PATIENT ROOM LIGHTING FOR TYPICAL CIRCUITING AND ADDITIONAL INFORMATION AND REQUIREMENTS.

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
C. ALL DEVICE COVERPLATES SHALL BE #302 STAINLESS STEEL. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. ENGRAVE DEVICE COVERPLATES FOR IDENTIFICATION. ALL JUNCTION BOXES (LABEL INTERIOR OF BOX WHERE "IN WALL" SWITCHES AND OUTLET BOXES) SHALL BE LABELED WITH THE VOLTAGE, PHASE, CIRCUIT NUMBER AND PANEL OF ORIGIN. A BLACK MARKER SHALL BE ACCEPTABLE FOR JUNCTION BOX LABELING. ALL CONDUCTORS IN A SINGLE CONDUIT / CONDUIT BODY SHALL ORIGINATE FROM THE SAME PANEL. THE GROUND CONDUCTOR SHALL BE BONDED TO THE BOX AT ANY DEVICE OR JUNCTION BOX WHICH HAS CONNECTIONS IN IT.
D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT, SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
F. WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.
G. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
H. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
I. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
J. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

1 THIRD FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"
0 2' 4' 8' 16' 24' 32'



KEYPLAN
1" = 100'-0"

Revisions:	Date:

CONSULTANT
Consultant:
CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085
CMTA

ARCHITECT/ENGINEER OF RECORD
A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388
GUIDON

STAMP
STATE OF KANSAS
ROBERT ANTHONY HANS
21246
LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: THIRD FLOOR PLAN - LIGHTING	Phase: BID DOCUMENTS	Project Title: VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY	Project Number: 589-701
Approved:			Building Number: 1 & 1C
		Location: WICHITA, KANSAS	Drawing Number: ES202
		Issue Date: 05/22/2020 / Checked: PDY / Drawn: RAH	

C:\Users\rhepping\Documents\VKMR19 ELEC R18_2_rhepping.rvt 5/21/2020 5:47:11 PM

VA FORM 08 - 6231

ELEC - EQUIPMENT CONNECTION SCHEDULE

EQUIP ID	DISCONNECT MEANS	VOLTAGE	POLES	HP	POWER (kVA)	MCA
1-AC-1	E.C. PROVIDED DISCONNECT SWITCH	120	1		0.50	
1-AC-2	E.C. PROVIDED DISCONNECT SWITCH	120	1		0.50	
1-AHU-2	INTEGRAL CONTROL CABINET	480	3	4	0.50	81
1-CU-1	E.C. PROVIDED DISCONNECT SWITCH	208	2		0.50	
1-CU-2	E.C. PROVIDED DISCONNECT SWITCH	208	2		0.50	
1-EF-13	E.C. PROVIDED DISCONNECT SWITCH	120	1	0.25	0.50	2.85
1-P-HW4		208	3		0.50	
1-P-HWC-1		120	1		0.50	
1-RF-2	M.C. PROVIDED VFD	480	3	7.5	0.50	10
1-RTU-1 (RETURN)	E.C. PROVIDED DISCONNECT SWITCH	480	3	2.3	11.30	7
1-RTU-1 (SUPPLY)	E.C. PROVIDED DISCONNECT SWITCH	480	3	7	0.50	17
1EF-11		120	1		0.72	
1EF-12		120	1		1.26	
E-1-CRAC1	E.C. PROVIDED DISCONNECT SWITCH	480	3		8.00	12
E-1-CRAC2		480	3		13.30	20
E-1-CRAC3		480	3		13.30	20
E-1-CRAC4		480	3		8.00	12
E-1-EF1		208	3	2	2.20	
E-1-EH1		208	3	2	0.50	
E-1-IH1		208	3		0.50	
TEMP AHU (EXTERIOR)		480	3		1.00	

SECOND & THIRD FLOOR ALTERNATE OFFICE CUBICLE AREA

REFER TO THE ARCHITECTURAL PLANS FOR A PROPOSED "OPEN OFFICE" AREA LAYOUT ON THE THIRD FLOOR. PROVIDE APPROXIMATELY (20) TYPE "A2" 2X4 LIGHTS, (6) CEILING TYPE VACANCY SENSOR UNITS, (4) LOW VOLTAGE LIGHT SWITCHES, (18) QUADRAPLEX RECEPTACLES, (4) FLOOR FED FURNITURE POWER FEEDS, (4) FLOOR FED FURNITURE DATA FEEDS, (8) '4D' DATA OUTLETS AND (2) FIRE ALARM AUDIO/VISUAL UNITS.

TAGGED NOTES

	##
P1	PROPOSED LOCATION FOR TRANSFORMER DISCONNECT SWITCH AS INDICATED ON POWER RISER. REFER TO POWER RISER FOR SIZING AND EXACT REQUIREMENTS. LOCATE BESIDE TRANSFORMER IN ORDER TO MAINTAIN ALL REQUIRED CLEARANCES.
P3	ROUTE ONE (1) #10 GROUND CONDUCTOR IN 1/2" CONDUIT CONTINUOUSLY AROUND ROOM (FULL CIRCLE) CONNECTING TO ALL PANELBOARD GROUND BARS IN ROOM AS REQUIRED BY N.E.C. #517.14. CONTRACTOR SHALL ALSO SUBMIT DETAILED DIMENSIONED SHOP DRAWINGS OF ELECTRIC ROOMS INDICATING PANELBOARD, TRANSFORMER, DISCONNECT SWITCHES, ETC. LOCATIONS AND REQUIRED CLEARANCES.
P9	COORDINATE OUTLET LOCATION WITH WALL PANELS IN AREA INDICATED SO THAT THE RECEPTACLE(S) IS CENTERED WITHIN INDIVIDUAL WALL PANELS. COORDINATE EXACT LOCATION AND MOUNTING WITH ARCHITECT AND ARCHITECT'S ELEVATIONS PRIOR TO ROUGH-IN.
P11	ROUTE NUMBER OF #12 CONDUCTORS AND ONE (1) #12 GROUND AS INDICATED IN 3/4" CONDUIT TO NEAREST AVAILABLE NEW / SPARE 20A/1P BREAKER(S) IN EXISTING PANEL INDICATED. VERIFY EXACT PANEL LOCATION(S) AND BRANCH CIRCUITING ROUTES PRIOR TO CONSTRUCTION. WHERE EXISTING PANEL IS FLUSH-MOUNTED IN AN EXSITING WALL TO REMAIN, CONTRACTOR SHALL CUT, PATCH, AND REPAIR WALL AS REQUIRED FOR CONCEALED CONDUIT ENTRY.
P17	PROVIDE 4" CONCRETE HOUSEKEEPING PAD FOR EQUIPMENT INDICATED. CONFIRM ALL REQUIRED CLEARANCES FOR EQUIPMENT ARE MAINTAINED PRIOR TO POURING OF CONCRETE.
P18	CONCEAL RECEPTACLE BEHIND ELECTRIC WATER COOLER (EWC). COORDINATE EXACT ROUGH-IN LOCATION(S) WITH EQUIPMENT SHOP DRAWINGS PRIOR TO CONSTRUCTION. PROVIDE WITH REMOTE, READILY ACCESSIBLE GFCI DEVICE NEXT TO EWC.
P22	PROVIDE 120V/1Ø POWER FROM RECEPTACLE CIRCUIT SERVING COUNTER TOP RECEPTACLES TO UNDERCABINET LIGHTING ABOVE.

GENERAL NOTES (POWER):

A. THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN (U.O.N.) AND THICK SOLID LINES INDICATE NEW WORK.

B. ALL NEW WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (U.O.N.). CONDUIT SHALL BE 3/4" MINIMUM.

C. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

D. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

E. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

F. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

G. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

H. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.

I. ALL DEVICE COVERPLATES SHALL BE #302 STAINLESS STEEL. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. ENGRAVE DEVICE COVERPLATES FOR IDENTIFICATION. ALL JUNCTION BOXES (LABEL INTERIOR OF BOX WHERE "IN WALL"SWITCHES AND OUTLET BOXES) SHALL BE LABELED WITH THE VOLTAGE, PHASE, CIRCUIT NUMBER AND PANEL OF ORIGIN. A BLACK MARKER SHALL BE ACCEPTABLE FOR JUNCTION BOX LABELING. ALL CONDUCTORS IN A SINGLE CONDUIT / CONDUIT BODY SHALL ORIGINATE FROM THE SAME PANEL. THE GROUND CONDUCTOR SHALL BE BONDED TO THE BOX AT ANY DEVICE OR JUNCTION BOX WHICH HAS CONNECTIONS IN IT.

J. ALL CEILING MOUNTED DEVICES, FIXTURES, ETC. SHALL BE INSTALLED COMPLETELY FLUSH WITH FINISHED CEILING. CAREFULLY COORDINATE WITH DRYWALL CONTRACTOR TO ENSURE A FLUSH INSTALLATION. DRYWALL CONTRACTOR SHALL TAPE, MUD, AND SAND AS NEEDED. NO GAP BETWEEN DEVICE/FIXTURE AND CEILING WILL BE ACCEPTABLE. IF DEEMED THE ONLY SOLUTION BY THE ARCHITECT OR ENGINEER, THIS CONTRACTOR SHALL PROVIDE AN APPROVED SEALANT TO SEAL ANY SUCH GAPS THAT EXIST. A FINAL WALK-THROUGH SHALL BE SCHEDULED WITH THE OWNER TO APPROVE THE FINISHED CEILING CONDITION.

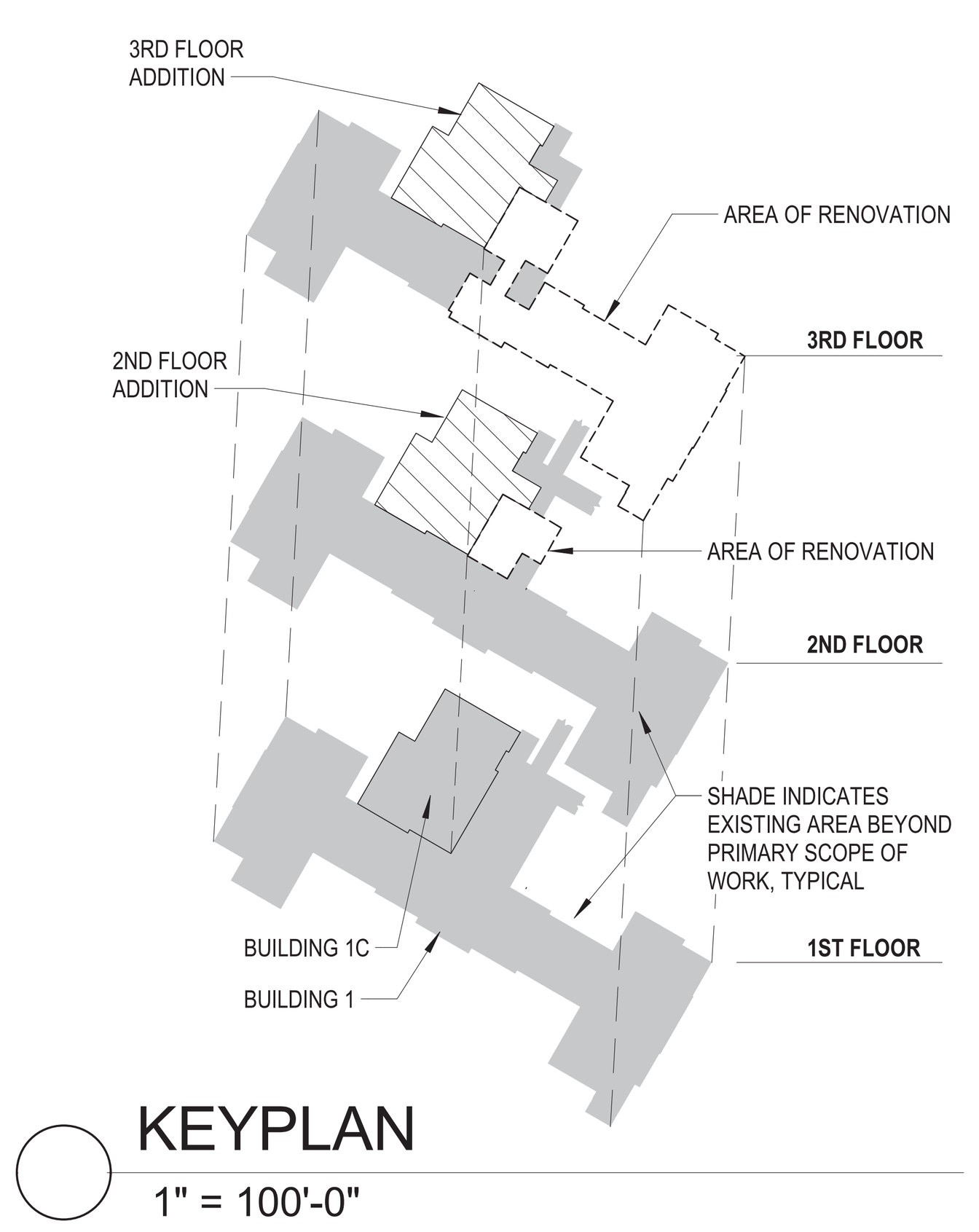
K. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.

L. WHERE ANY RECEPTACLE IS LOCATED WITHIN 6'-0" OF SINK, CONTRACTOR SHALL PROVIDE "GFCI" TYPE OUTLET OR CONNECT CIRCUIT TO A 20A/1P GFCI TYPE CIRCUIT BREAKER. REFER TO ARCHITECTURAL PLANS FOR SINK LOCATIONS.

M. PROVIDE COORDINATION DRAWINGS FOR REVIEW (BETWEEN FURNITURE VENDOR, LAB EQUIPMENT VENDORS & CONTRACTOR) PRIOR TO ROUGH-IN(S).

2 ENLARGED 2ND FLOOR PLAN - ELEC C207
SCALE: 1/4" = 1'-0"

1 SECOND FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"



KEYPLAN
1" = 100'-0"

Revisions:	Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

ARCHITECT/ENGINEER OF RECORD

A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

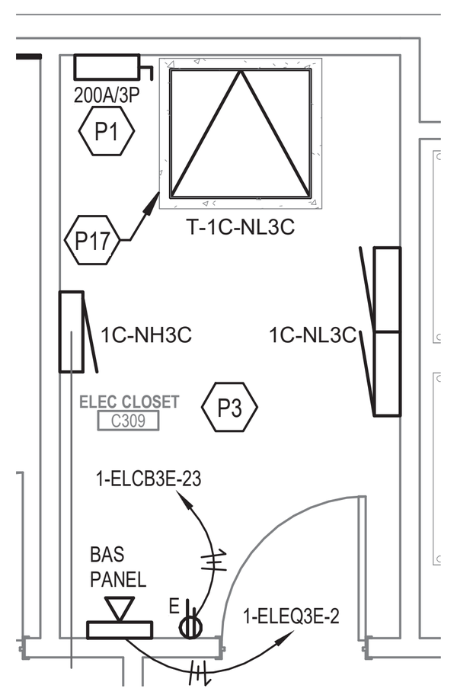
STAMP
STATE OF KANSAS
ROBERT ANTHONY HANS 21246
LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management
U.S. Department of Veterans Affairs

Drawing Title: SECOND FLOOR PLAN - POWER
Approved:
Phase: BID DOCUMENTS
Project Title: VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY
Location: WICHITA, KANSAS
Issue Date: 05/22/2020
Checked: PDY
Drawn: RAH
Project Number: 589-701
Building Number: 1 & 1C
Drawing Number: ES301

SECOND & THIRD FLOOR ALTERNATE OFFICE CUBICLE AREA

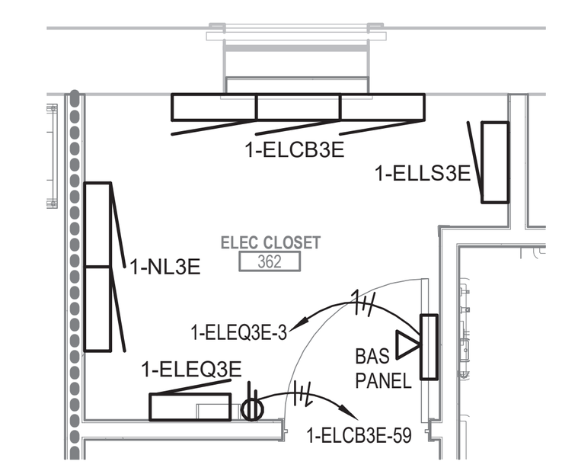
REFER TO THE ARCHITECTURAL PLANS FOR A PROPOSED "OPEN OFFICE" AREA LAYOUT ON THE THIRD FLOOR. PROVIDE APPROXIMATELY (20) TYPE "A2" 2X4 LIGHTS, (6) CEILING TYPE VACANCY SENSOR UNITS, (4) LOW VOLTAGE LIGHT SWITCHES, (18) QUADRAPLEX RECEPTACLES, (4) FLOOR FED FURNITURE POWER FEEDS, (4) FLOOR FED FURNITURE DATA FEEDS, (8) '4D' DATA OUTLETS AND (2) FIRE ALARM AUDIO/VISUAL UNITS.



2 ENLARGED 3RD FLOOR PLAN - ELEC C309

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8' 12' 16'



3 ENLARGED 3RD FLOOR PLAN - ELEC C362

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8' 12' 16'

TAGGED NOTES

L1	PROVIDE 120V/1Ø POWER FROM RECEPTACLE CIRCUIT SERVING COUNTER TOP RECEPTACLES BELOW.
P1	PROPOSED LOCATION FOR TRANSFORMER DISCONNECT SWITCH AS INDICATED ON POWER RISER. REFER TO POWER RISER FOR SIZING AND EXACT REQUIREMENTS. LOCATE BESIDE TRANSFORMER IN ORDER TO MAINTAIN ALL REQUIRED CLEARANCES.
P3	ROUTE ONE (1) #10 GROUND CONDUCTOR IN 1/2" CONDUIT CONTINUOUSLY AROUND ROOM (FULL CIRCLE) CONNECTING TO ALL PANELBOARD GROUND BARS IN ROOM AS REQUIRED BY N.E.C. #517.14. CONTRACTOR SHALL ALSO SUBMIT DETAILED DIMENSIONED SHOP DRAWINGS OF ELECTRIC ROOMS INDICATING PANELBOARD, TRANSFORMER, DISCONNECT SWITCHES, ETC. LOCATIONS AND REQUIRED CLEARANCES.
P7	COORDINATE BEST LOCATION FOR RECEPTACLE TO ENSURE ACCESSIBILITY WITH INSTALLATION OF MECHANICAL EQUIPMENT IN THIS ROOM.
P17	PROVIDE 4" CONCRETE HOUSEKEEPING PAD FOR EQUIPMENT INDICATED. CONFIRM ALL REQUIRED CLEARANCES FOR EQUIPMENT ARE MAINTAINED PRIOR TO POURING OF CONCRETE.
P18	CONCEAL RECEPTACLE BEHIND ELECTRIC WATER COOLER (EWC). COORDINATE EXACT ROUGH-IN LOCATION(S) WITH EQUIPMENT SHOP DRAWINGS PRIOR TO CONSTRUCTION. PROVIDE WITH REMOTE, READILY ACCESSIBLE GFCI DEVICE NEXT TO EWC.
P21	PROVIDE ONE (1) 1-1/2" CONDUIT FOR DATA AND HDMI CONNECTIONS TO TV MOUNTED ON WALL IN THIS AREA. CUT, TRENCH, AND PATCH FLOOR AS REQUIRED. EXTEND CONDUIT TO NEAREST AVAILABLE CABLE PATH.

GENERAL NOTES (POWER):

A. THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN (U.O.N.) AND THICK SOLID LINES INDICATE NEW WORK.

B. ALL NEW WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (U.O.N.). CONDUIT SHALL BE 3/4" MINIMUM.

C. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

D. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

E. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

F. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

G. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

H. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.

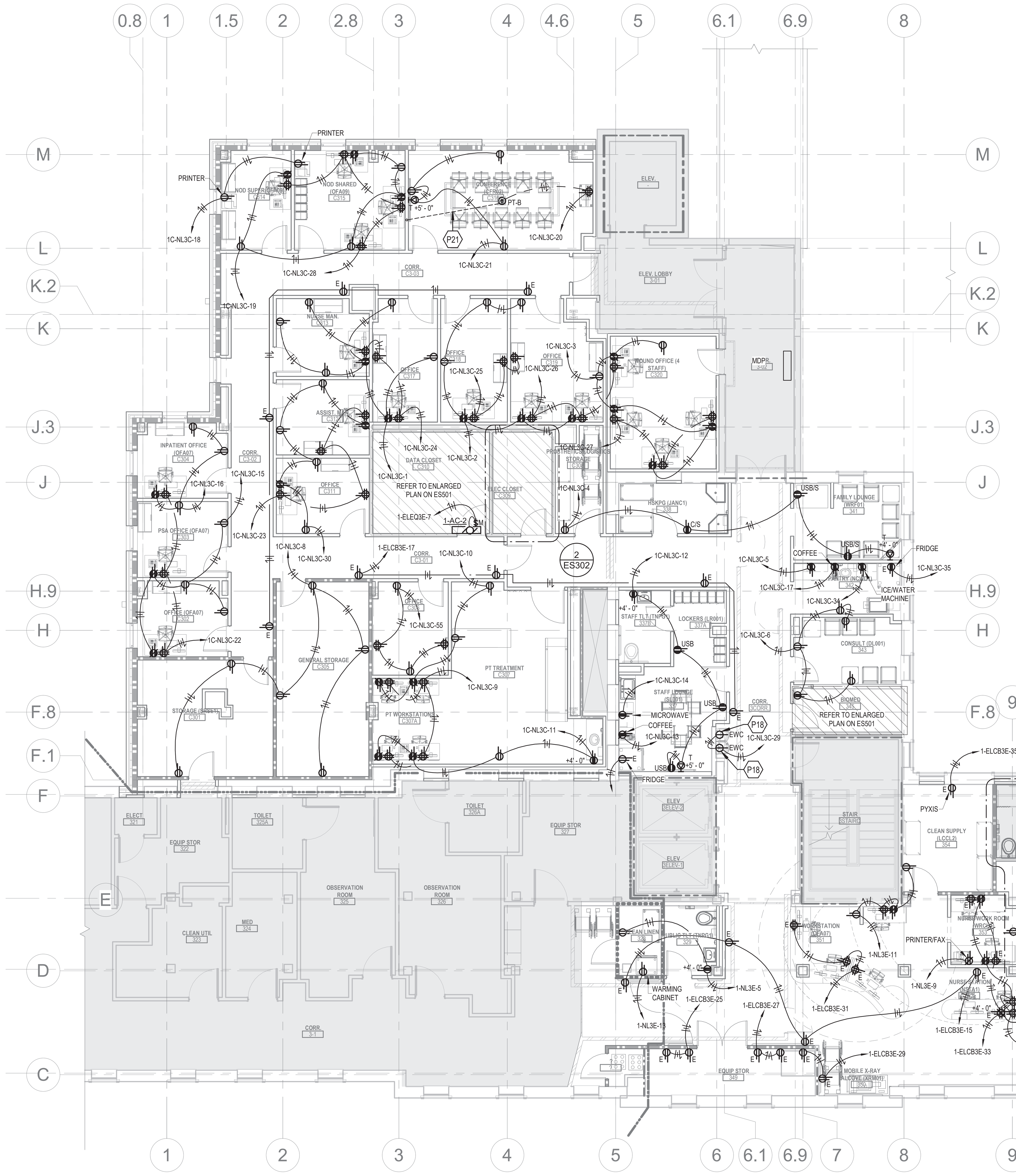
I. ALL DEVICE COVERPLATES SHALL BE #302 STAINLESS STEEL. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. ENGRAVE DEVICE COVERPLATES FOR IDENTIFICATION. ALL JUNCTION BOXES (LABEL INTERIOR OF BOX WHERE "IN WALL"SWITCHES AND OUTLET BOXES) SHALL BE LABELED WITH THE VOLTAGE, PHASE, CIRCUIT NUMBER AND PANEL OF ORIGIN. A BLACK MARKER SHALL BE ACCEPTABLE FOR JUNCTION BOX LABELING. ALL CONDUCTORS IN A SINGLE CONDUIT / CONDUIT BODY SHALL ORIGINATE FROM THE SAME PANEL. THE GROUND CONDUCTOR SHALL BE BONDED TO THE BOX AT ANY DEVICE OR JUNCTION BOX WHICH HAS CONNECTIONS IN IT.

J. ALL CEILING MOUNTED DEVICES, FIXTURES, ETC. SHALL BE INSTALLED COMPLETELY FLUSH WITH FINISHED CEILING. CAREFULLY COORDINATE WITH DRYWALL CONTRACTOR TO ENSURE A FLUSH INSTALLATION. DRYWALL CONTRACTOR SHALL TAPE, MUD, AND SAND AS NEEDED. NO GAP BETWEEN DEVICE/FIXTURE AND CEILING WILL BE ACCEPTABLE. IF DEEMED THE ONLY SOLUTION BY THE ARCHITECT OR ENGINEER, THIS CONTRACTOR SHALL PROVIDE AN APPROVED SEALANT TO SEAL ANY SUCH GAPS THAT EXIST. A FINAL WALK-THROUGH SHALL BE SCHEDULED WITH THE OWNER TO APPROVE THE FINISHED CEILING CONDITION.

K. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.

L. WHERE ANY RECEPTACLE IS LOCATED WITHIN 6'-0" OF SINK, CONTRACTOR SHALL PROVIDE "GFCI" TYPE OUTLET OR CONNECT CIRCUIT TO A 20A/1P GFCI TYPE CIRCUIT BREAKER. REFER TO ARCHITECTURAL PLANS FOR SINK LOCATIONS.

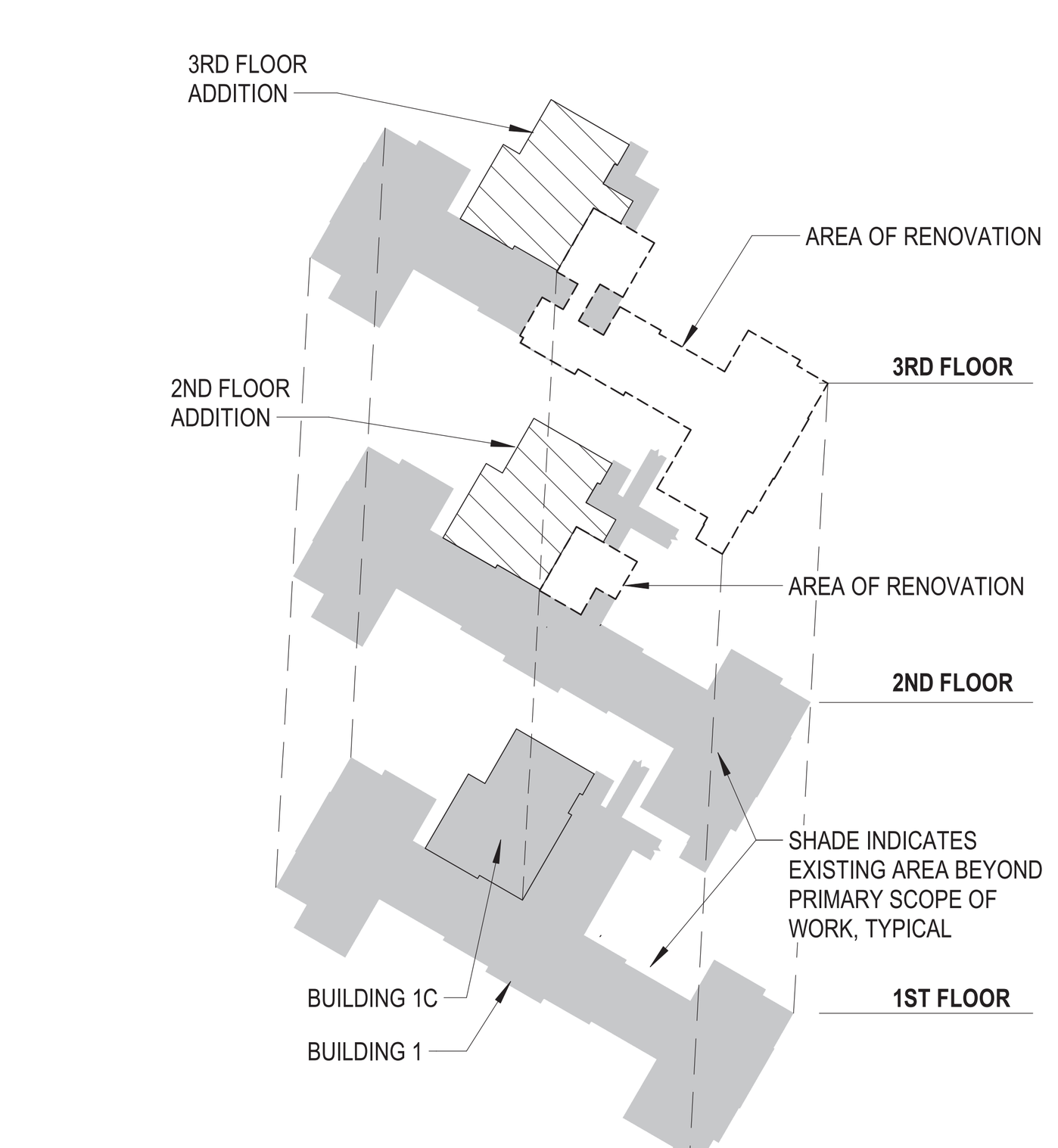
M. PROVIDE COORDINATION DRAWINGS FOR REVIEW (BETWEEN FURNITURE VENDOR, LAB EQUIPMENT VENDORS & CONTRACTOR) PRIOR TO ROUGH-IN(S).




1 THIRD FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 24' 32'



KEYPLAN

1" = 100'-0"

Revisions:	Date:

CONSULTANT

Consultant:

CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

CMTA

ARCHITECT/ENGINEER OF RECORD

A/E:

GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

GUIDON

STAMP

STATE OF KANSAS — ROBERT ANTHONY HANS 21246 — LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: THIRD FLOOR PLAN - POWER

Approved:

Phase: BID DOCUMENTS

Project Title: VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY

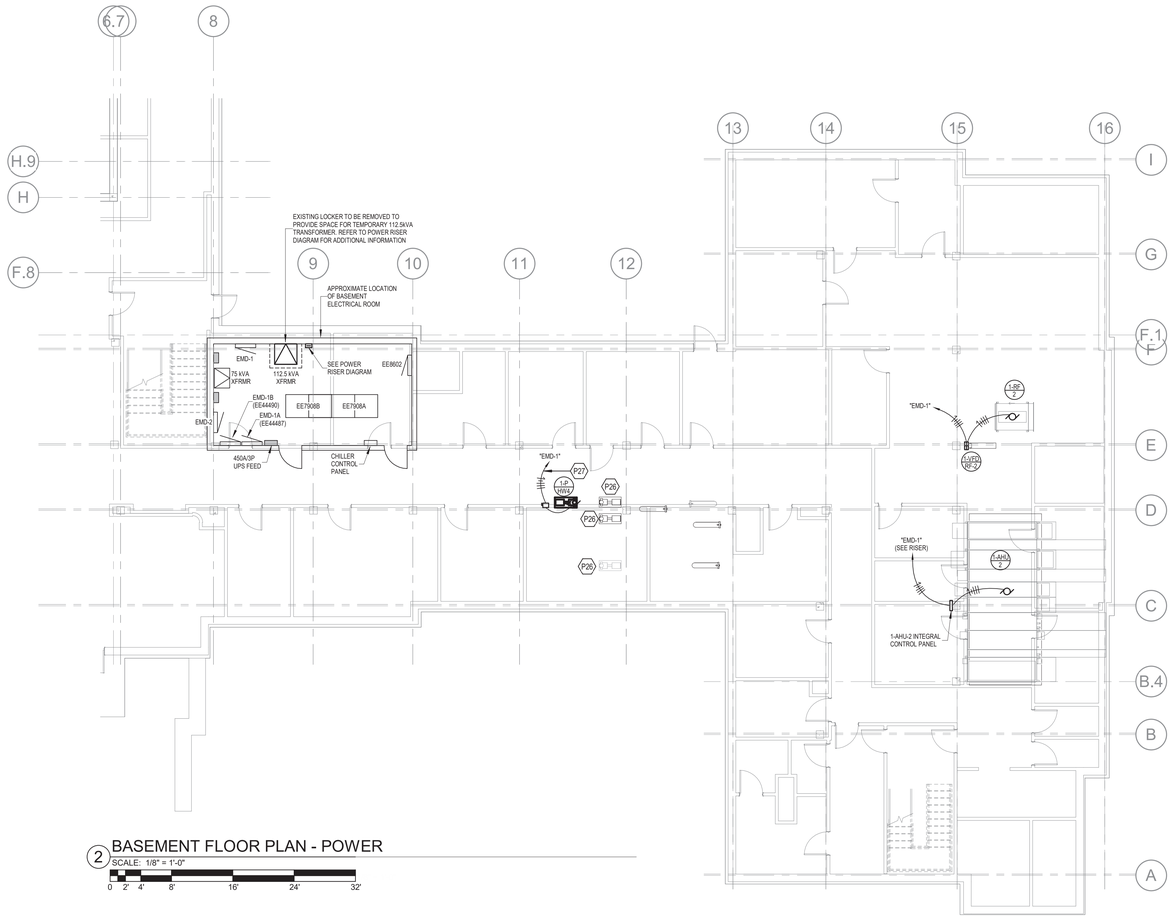
Project Number: 589-701

Building Number: 1 & 1C

Location: WICHITA, KANSAS

Drawing Number: ES302

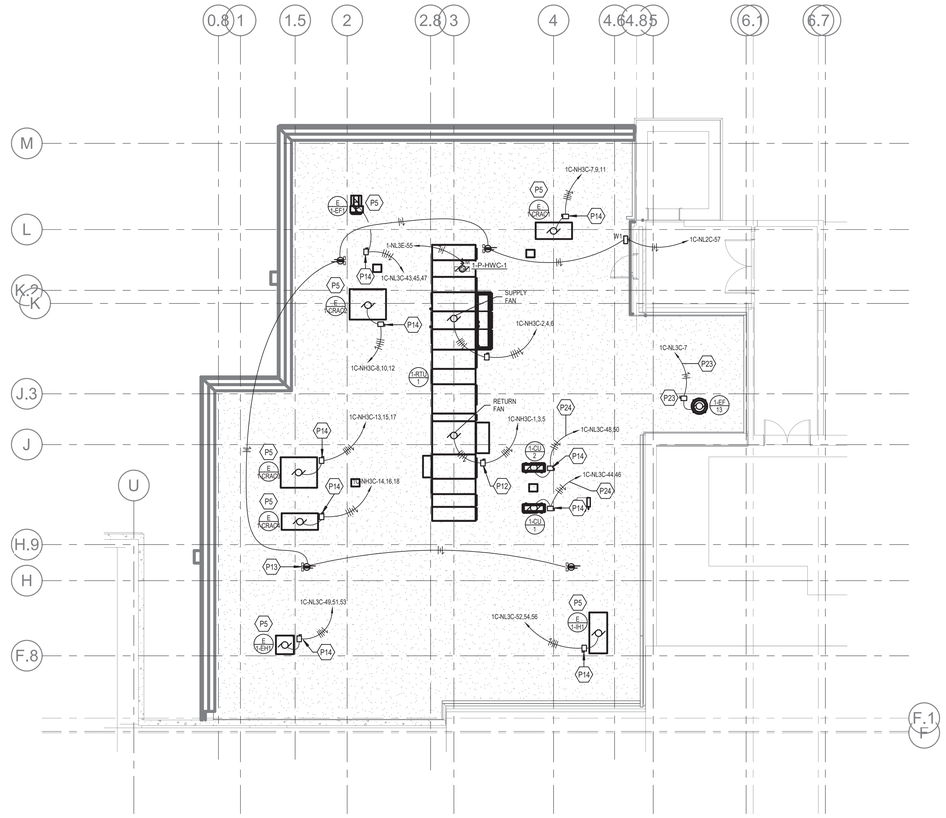
Issue Date	Checked	Drawn
05/22/2020	PDY	RAH



2 BASEMENT FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 24' 32'



1 ROOF PLAN - ELECTRICAL

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 24' 32'

GENERAL NOTES (POWER):

A. THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN (U.O.N.) AND THICK SOLID LINES INDICATE NEW WORK.

B. ALL NEW WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (U.O.N.). CONDUIT SHALL BE 3/4" MINIMUM.

C. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

D. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

E. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

F. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

G. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

H. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.

I. ALL DEVICE COVERPLATES SHALL BE #302 STAINLESS STEEL. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. ENGRAVE DEVICE COVERPLATES FOR IDENTIFICATION. ALL JUNCTION BOXES (LABEL INTERIOR OF BOX WHERE "IN WALL"SWITCHES AND OUTLET BOXES) SHALL BE LABELED WITH THE VOLTAGE, PHASE, CIRCUIT NUMBER AND PANEL OF ORIGIN. A BLACK MARKER SHALL BE ACCEPTABLE FOR JUNCTION BOX LABELING. ALL CONDUCTORS IN A SINGLE CONDUIT / CONDUIT BODY SHALL ORIGINATE FROM THE SAME PANEL. THE GROUND CONDUCTOR SHALL BE BONDED TO THE BOX AT ANY DEVICE OR JUNCTION BOX WHICH HAS CONNECTIONS IN IT.

J. ALL CEILING MOUNTED DEVICES, FIXTURES, ETC. SHALL BE INSTALLED COMPLETELY FLUSH WITH FINISHED CEILING. CAREFULLY COORDINATE WITH DRYWALL CONTRACTOR TO ENSURE A FLUSH INSTALLATION. DRYWALL CONTRACTOR SHALL TAPE, MUD, AND SAND AS NEEDED. NO GAP BETWEEN DEVICE/FIXTURE AND CEILING WILL BE ACCEPTABLE. IF DEEMED THE ONLY SOLUTION BY THE ARCHITECT OR ENGINEER, THIS CONTRACTOR SHALL PROVIDE AN APPROVED SEALANT TO SEAL ANY SUCH GAPS THAT EXIST. A FINAL WALK-THROUGH SHALL BE SCHEDULED WITH THE OWNER TO APPROVE THE FINISHED CEILING CONDITION.

K. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.

L. WHERE ANY RECEPTACLE IS LOCATED WITHIN 6'-0" OF SINK, CONTRACTOR SHALL PROVIDE "GFCI" TYPE OUTLET OR CONNECT CIRCUIT TO A 20A/1P GFCI TYPE CIRCUIT BREAKER. REFER TO ARCHITECTURAL PLANS FOR SINK LOCATIONS.

M. PROVIDE COORDINATION DRAWINGS FOR REVIEW (BETWEEN FURNITURE VENDOR, LAB EQUIPMENT VENDORS & CONTRACTOR) PRIOR TO ROUGH-IN(S).

TAGGED NOTES

#	
P5	EXITING ROOF TOP EQUIPMENT RELOCATED FROM FIRST FLOOR ROOF. EXTEND EXISTING POWER UP TO NEW ROOF TOP LOCATION. RECONENCT EXISTING POWER TO NEW DISCONNECT SWITCH AS REQUIRED. FIELD VERIFY EXACT CONDITIONS AND RE-ROUTING REQUIREMENTS PRIOR TO CONSTRUCTION.
P12	PROVIDE 30A/600V/3P FUSIBLE HEAVY DUTY DISCONNECT SWITCH IN NEMA-3R ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE RATING. COORDINATE DISCONNECT LOCATION WITH ALL TRADES TO ENSURE ALL REQUIRED CLEARANCES ARE MAINTAINED. PROVIDE UNISTRUT FOR MOUTNING OF EQUIPMENT AS REQUIRED. PROVIDE WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE SYSTEM.
P13	PROVIDE UNISTRUT FOR MOUNTING OF EQUIPMENT AS REQUIRED.
P14	PROVIDE 30A/250V/3P FUSIBLE HEAVY DUTY DISCONNECT SWITCH IN NEMA-3R ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE RATING. COORDINATE DISCONNECT LOCATION WITH ALL TRADES TO ENSURE ALL REQUIRED CLEARANCES ARE MAINTAINED. PROVIDE UNISTRUT FOR MOUTNING OF EQUIPMENT AS REQUIRED. PROVIDE WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE SYSTEM.
P23	ROUTE THROUGH MANUFACTURER'S INTEGRAL DISCONNECT SWITCH. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
P24	ROUTE POWER AND CONTROLS THROUGH INDOOR UNIT AS REQURIED. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
P26	EXISTING EQUIPMENT INDICATED TO REMAIN.
P27	ROUTE NUMBER OF #10 CONDUCTORS AND ONE (1) #10 GROUND AS INDICATED IN 3/4" CONDUIT TO NEAREST AVAILABLE NEW / SPARE 25A/3P BREAKER(S) IN EXISTING PANEL INDICATED. VERIFY EXACT PANEL LOCATION(S) AND BRANCH CIRCUITING ROUTES PRIOR TO CONSTRUCTION. WHERE EXISTING PANEL IS FLUSH-MOUNTED IN AN EXSITING WALL TO REMAIN, CONTRACTOR SHALL CUT, PATCH, AND REPAIR WALL AS REQUIRED FOR CONCEALED CONDUIT ENTRY.

BID DEDUCTIVE ALTERNATE #2

EXISTING AIR HANDLING UNIT AHU-2 AND RETURN FAN RF-2 SHALL REMAIN. EXISTING DUCTWORK, PIPING, CONTROLS, ELECTRICAL CONNECTIONS, ETC. SERVING AHU-2 AND RF-2 SHALL REMAIN AS IS. ALL WORK ASSOCIATED WITH TEMPORARY AIR HANDLING UNIT SHALL BE REMOVED FROM SCOPE OF WORK.

GENERAL NOTES (ROOF):

A. REFER TO POWER, SYSTEMS, AND LIGHTING PLANS FOR GENERAL NOTES APPLICABLE TO INTERIOR SPACES SHOWN ON THIS PLAN.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE ENGRAVED LAMACOID LABLES FOR ALL EXTERIOR DEVICES. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. PROVIDE UNI-STRUT AS REQUIRED FOR MOUNTING OF ALL DEVICES ON ROOF. COORDINATE WITH ROOFING CONTRACTOR PRIOR TO CONSTRUCTION FOR ALL PENETRATIONS. SEAL PENETRATIONS AS REQUIRED PER ROOFING CONTRACTOR AND ROOFING MANUFACTURER'S RECOMMENDATIONS AS REQUIRED TO MAINTAIN ROOF WARRANTY. PROVIDE CURBS AND/OR FLASHED BOOTS AT ALL DEVICES AND PENETRATIONS.

E. CONDUITS SHALL PENETRATE ROOF FROM BELOW AS CLOSE TO FINAL ROOF EQUIPMENT TERMINATION POINT AS POSSIBLE. SUPPORT ALL ROOF MOUNTED CONDUITS AT INTERVALS NOT EXCEEDING 10 FEET WITH STRUT-BASED SUPPORT SYSTEM. SUPPORT SYSTEM TO BE CADDY PYRAMID ST SERIES OR APPROVED EQUAL.

F. ALL CONDUIT EXPOSED TO DIRECT SUNLIGHT SHALL BE AT LEAST 12" ABOVE THE ROOF-TOP. NO CONDUIT SHALL BE EXPOSED TO DIRECT SUNLIGHT BELOW THIS HEIGHT.

G. WHERE RACEWAY OR CONDUCTORS ARE INSTALLED EXPOSED ON ROOF, DERATE AMPACITY OF CONDUCTORS IN ACCORDANCE WITH NEC.

H. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

I. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25 FT OF EACH MECHANICAL UNIT AS REQUIRED BY NEC. COORDINATE INSTALLATION LOCATIONS WITH FINAL EQUIPMENT LAYOUT PROVIDE BY MECHANICAL CONTRACTOR.

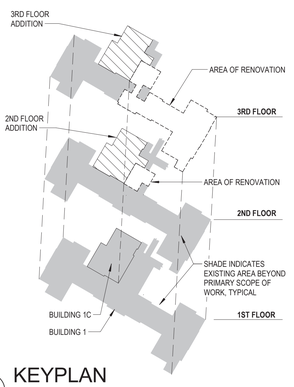
J. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED IN CEILING SPACE BELOW ROOF DECK UNO.

GENERAL NOTES (LIGHTNING PROTECTION):

A. PROVIDE LIGHTNING PROTECTION SYSTEM EXTENSION FOR BUILDING ADDITION TO THE EXISTING FACILITY. SYSTEM SHALL COMPLY WITH U.L. #96A "MASTER LABELED LIGHTNING PROTECTION SYSTEMS". REFER TO THE ELECTRICAL SPECIFICATIONS.

B. PENETRATIONS THROUGH SHEET METAL INCLUDING BUT NOT LIMITED TO COPINGS AND COUNTER FLASHINGS, SHALL NOT BE ALLOWED. CONNECTIONS TO PARAPETS SHALL BE BY CLAMPS MADE TO FASTEN TO THE DRIP EDGE OF COPINGS WITHOUT PENETRATION TO AND OF THE COPINGS. REFER TO ARCHITECTURAL ROOF PLANS FOR DETAILS OF PENETRATIONS THROUGH HORIZONTAL ROOF AREAS. PENETRATIONS THROUGH HORIZONTAL ROOF AREAS SHALL BE NO CLOSER THAN 16" TO ANY VERTICAL BUILDING SURFACE.

C. ALL ROOF PENETRATIONS AND ASSOCIATED LABOR COSTS SHALL BE AT THE EXPENSE OF THIS CONTRACTOR, BUT SHALL BE INSTALLED BY THE ROOFING CONTRACTOR IN ORDER TO MAINTAIN ANY APPLICABLE ROOF WARRANTIES. ANY DEVIATIONS NECESSARY BY THIS CONTRACTOR SHALL FIRST BE SUBMITTED TO THE ARCHITECT'S OFFICE FOR REVIEW. ANY COSTS ASSOCIATED WITH CHANGES TO THIS SYSTEM THAT ARE A RESULT OF PROPOSED DETAILS NOT BEING ACCEPTABLE TO THE OWNER, ARCHITECT, OR ENGINEER SHALL BE AT THE EXPENSE OF THIS CONTRACTOR. ALL REQUIRED CONNECTION DEVICES SHALL BE REVIEWED BY THE ARCHITECT AND ENGINEER. PENETRATION DEVICES THROUGH STANDING SEAM METAL ROOF AREAS SHALL BE PROVIDED BY THE SHEET METAL ROOFING CONTRACTOR.



KEYPLAN

1" = 100'-0"

Revisions:	Date:

CONSULTANT

Consultant:

CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

CMTA

ARCHITECT/ENGINEER OF RECORD

A/E:

GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

GUIDON

STAMP

STATE OF KANSAS
ROBERT ANTHONY HANS
21246
LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BASEMENT AND ROOF PLAN - ELECTRICAL
Phase	BID DOCUMENTS
Approved:	
Project Title	VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY
Project Number	589-701
Building Number	1 & 1C
Location	WICHITA, KANSAS
Drawing Number	ES303
Issue Date	05/22/2020
Checked	PDY
Drawn	RAH

5/21/2020 5:47:28 PM

C:\Users\mlepping\Documents\WMR19 ELEC R18_2_mlepping\E22JR.rvt

VA FORM 08 - 6231

SECOND & THIRD FLOOR ALTERNATE OFFICE CUBICLE AREA

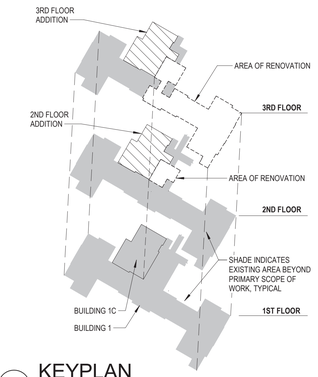
REFER TO THE ARCHITECTURAL PLANS FOR A PROPOSED "OPEN OFFICE" AREA LAYOUT ON THE THIRD FLOOR. PROVIDE APPROXIMATELY (20) TYPE "A2" 2X4 LIGHTS, (6) CEILING TYPE VACANCY SENSOR UNITS, (4) LOW VOLTAGE LIGHT SWITCHES, (18) QUADRAPLEX RECEPTACLES, (4) FLOOR FED FURNITURE POWER FEEDS, (4) FLOOR FED FURNITURE DATA FEEDS, (8) '4D' DATA OUTLETS AND (2) FIRE ALARM AUDIO/VISUAL UNITS.

GENERAL NOTES (SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
D. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
E. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
F. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

TAGGED NOTES

P21	PROVIDE ONE (1) 1-1/2" CONDUIT FOR DATA AND HDMI CONNECTIONS TO TV MOUNTED ON WALL IN THIS AREA. CUT, TRENCH, AND PATCH FLOOR AS REQUIRED. EXTEND CONDUIT TO NEAREST AVAILABLE CABLE PATH.
S14	PROVIDE FOUR (1) 2" CONDUIT SLEEVE(S) THROUGH WALL(S) INDICATED. INSTALL SLEEVE(S) ABOVE SUSPENDED CEILING (WHERE APPLICABLE). PROVIDE UL LISTED FIRE-RATED ASSEMBLY AT PENETRATION AS REQUIRED. REFER TO SLEEVE PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS (TYPICAL ALL PENETRATIONS).
S15	PROVIDE DUCT SMOKE DETECTOR. REFER TO FIRE ALARM RISER DIAGRAM AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
S17	PROVIDE CONNECTION TO FIRE ALARM SYSTEM FOR AUTOMATIC RELEASE OF ALL MECHANICALLY HELD DOORS UPON FIRE ALARM SYSTEM ACTIVATION. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS AND INFORMATION.



1 SECOND FLOOR PLAN - SYSTEMS
SCALE: 1/8" = 1'-0"
0 2' 4' 8' 16' 24' 32'

KEYPLAN
1" = 100'-0"

Revisions:	Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

ARCHITECT/ENGINEER OF RECORD

A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

STAMP
STATE OF KANSAS
ROBERT ANTHONY HANS
21246
LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SECOND FLOOR PLAN - SYSTEMS	Phase: BID DOCUMENTS	Project Title: VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY	Project Number: 589-701
Approved:			Building Number: 1 & 1C
		Location: WICHITA, KANSAS	Drawing Number: ES401
		Issue Date: 05/22/2020 / Checked: PDY / Drawn: RAH	

5/21/2020 5:47:32 PM
C:\Users\mhepping\Documents\VKMR19 ELEC R18_2_mhepping#E22cR.rvt
VA FORM 08 - 6231

SECOND & THIRD FLOOR ALTERNATE OFFICE CUBICLE AREA

REFER TO THE ARCHITECTURAL PLANS FOR A PROPOSED "OPEN OFFICE" AREA LAYOUT ON THE THIRD FLOOR. PROVIDE APPROXIMATELY (20) TYPE "A2" 2X4 LIGHTS, (6) CEILING TYPE VACANCY SENSOR UNITS, (4) LOW VOLTAGE LIGHT SWITCHES, (18) QUADRAPLEX RECEPTACLES, (4) FLOOR FED FURNITURE POWER FEEDS, (4) FLOOR FED FURNITURE DATA FEEDS, (8) '4D' DATA OUTLETS AND (2) FIRE ALARM AUDIO/VISUAL UNITS.

GENERAL NOTES (SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

E. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

F. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

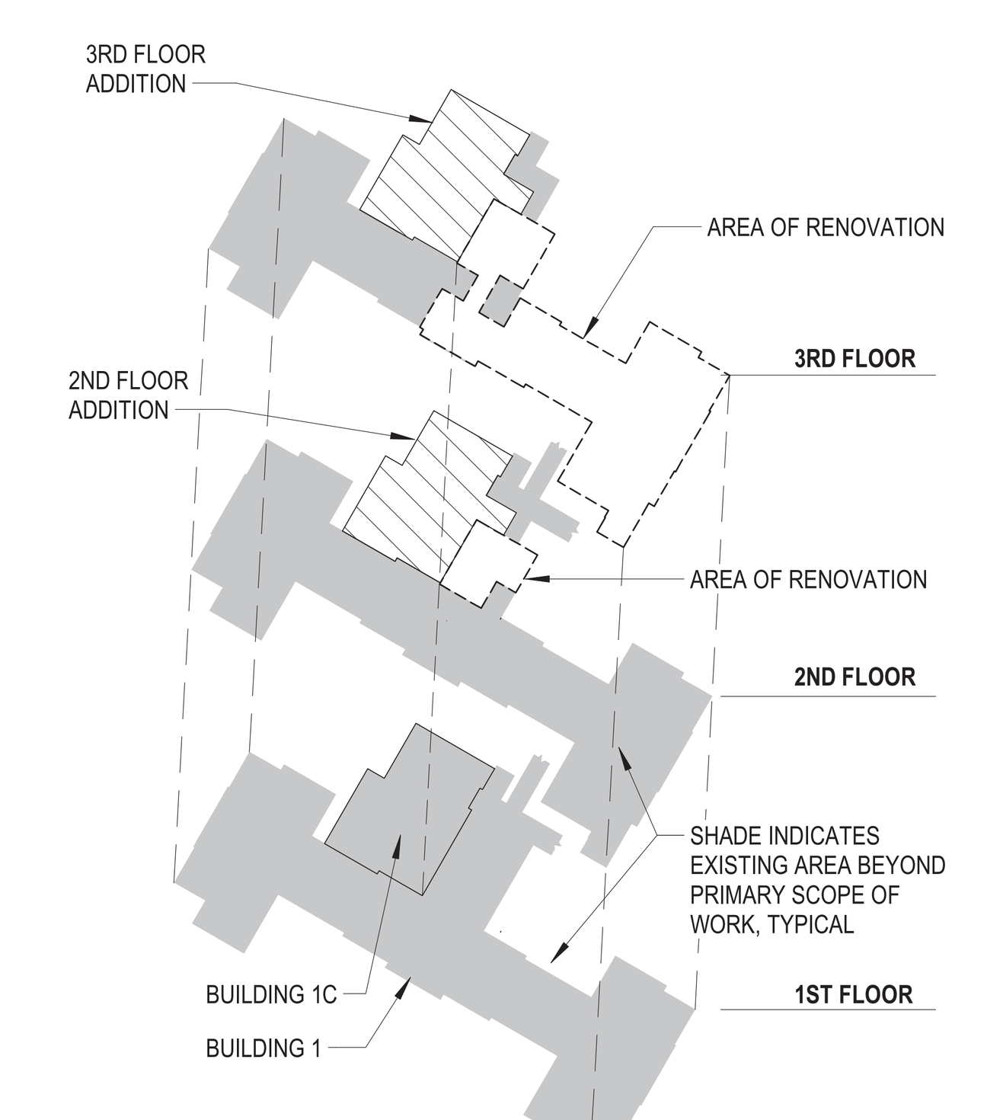
TAGGED NOTES

##	
S2	ROUTE ONE (1) 1-1/4" CONDUIT FROM POKE-THRU TO STUB UP INSIDE WALL FOR A/V, HDMI, DATA, ETC. CONNECTIONS BETWEEN POKE THRU AND TV. COORDINATE EXACT POKE THRU AND TV LOCATION PRIOR TO ROUGH-IN.
S14	PROVIDE FOUR (1) 2" CONDUIT SLEEVE(S) THROUGH WALL(S) INDICATED. INSTALL SLEEVE(S) ABOVE SUSPENDED CEILING (WHERE APPLICABLE). PROVIDE UL LISTED FIRE-RATED ASSEMBLY AT PENETRATION AS REQUIRED. REFER TO SLEEVE PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS (TYPICAL ALL PENETRATIONS).
S17	PROVIDE CONNECTION TO FIRE ALARM SYSTEM FOR AUTOMATIC RELEASE OF ALL MECHANICALLY HELD DOORS UPON FIRE ALARM SYSTEM ACTIVATION. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

1 THIRD FLOOR PLAN - SYSTEMS

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 24' 32'



KEYPLAN

1" = 100'-0"

Revisions:	Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

ARCHITECT/ENGINEER OF RECORD

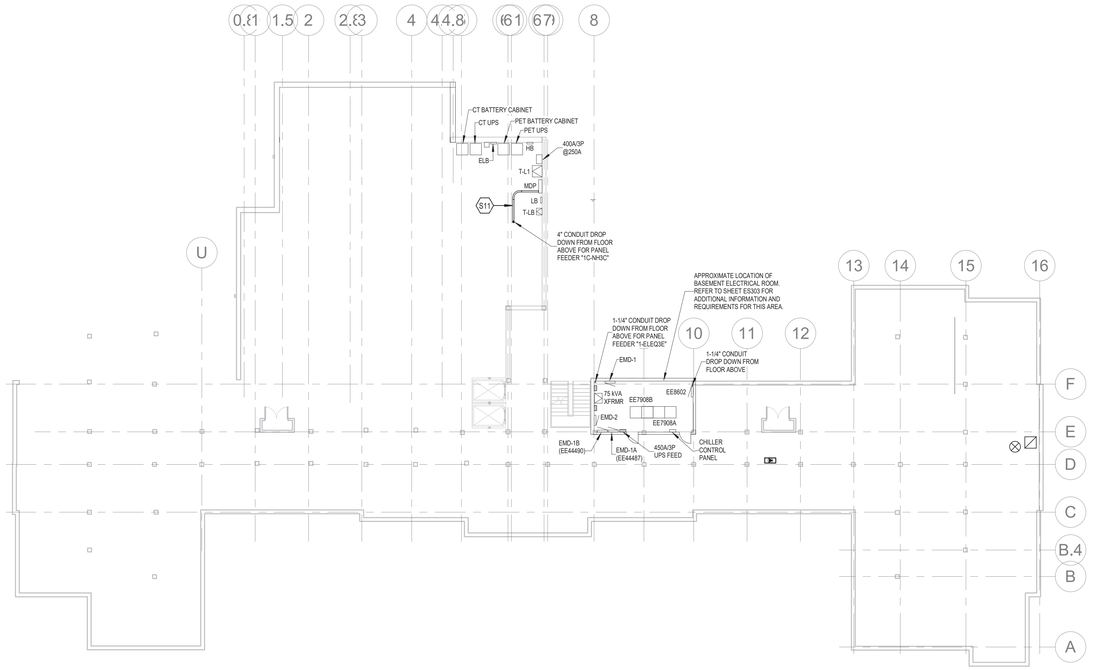
A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

STAMP: STATE OF KANSAS — ROBERT ANTHONY HANS 21246 — LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

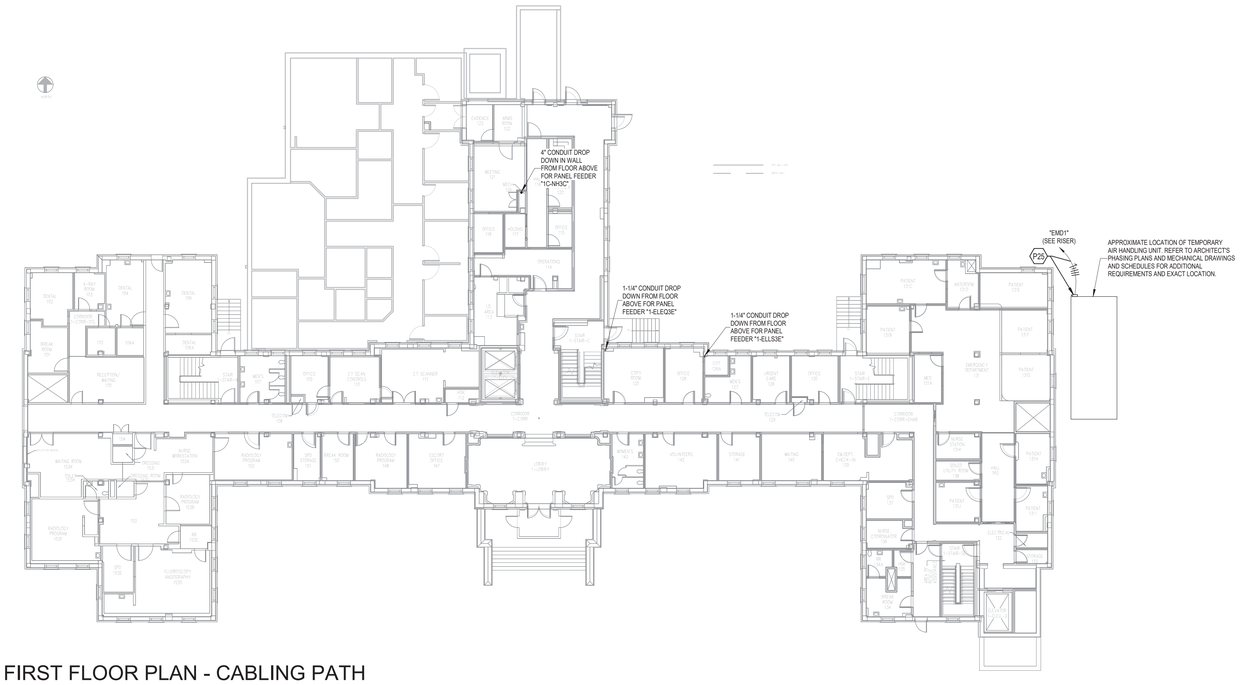
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
THIRD FLOOR PLAN - SYSTEMS	BID DOCUMENTS	VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY	589-701
			Building Number: 1 & 1C
Approved:		Location: WICHITA, KANSAS	Drawing Number: ES402
		Issue Date: 05/22/2020 / Checked: PDY / Drawn: RAH	



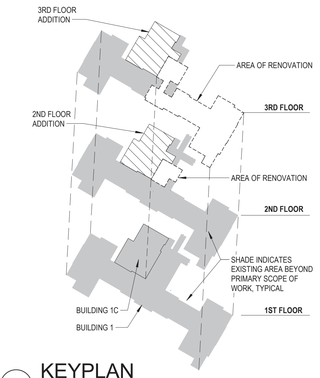
1 BASEMENT FLOOR PLAN - CABLING PATH

1/16" = 1'-0"



2 FIRST FLOOR PLAN - CABLING PATH

1/16" = 1'-0"



KEYPLAN

1" = 100'-0"

GENERAL NOTES (INTERCONNECTION):

A. THE CONTRACTOR SHALL VISIT SITE AND VERIFY THAT PULL BOXES AND CONDUITS MAY BE INSTALLED AS INDICATED. IF THERE IS A CONFLICT, CONTRACTOR SHALL NOTIFY ENGINEER 10 DAYS PRIOR TO BID. NO PRICE CHANGE WILL BE GIVEN FOR ANY ALTERNATE ROUTINGS OF CONDUIT AFTER THE CONTRACT HAS BEEN AWARDED. NOTIFY FACILITY ENGINEER AT LEAST 24 HOURS IN ADVANCE OF ANY VISIT.
B. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES (WHETHER EXISTING OR NEW).
C. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.
D. REMOVE AND RE-INSTALL ALL CEILING TILES, HARD CEILINGS, AND/OR GRID MEMBERS AS NECESSARY TO PERFORM WORK REQUIRED. TO ENSURE NEW REPLACEMENT CEILING TILES MATCH EXISTING TILES IN AREA, THE CONTRACTOR SHALL REMOVE TILES FROM DESIGNATED ROOM(S) AND USE THESE TO REPLACE DAMAGED CEILING TILES. ALL NEW CEILING TILES SHALL BE INSTALLED IN "DESIGNATED" ROOM(S) AT CLOSE OF PROJECT. COORDINATE "DESIGNATED" ROOM(S) WITH FACILITY ENGINEER. REPLACE TILES WITH NEW IF ACCEPTABLE TO OWNER.

TAGGED NOTES

P25	ROUTE THROUGH MANUFACTURER'S INTEGRAL DISCONNECT SWITCH AND 112.5KVA/480V-DELTA/208Y-120 TRANSFORMER PROVIDED WITH TEMPORARY UNIT. REFER TO ARCHITECT'S PHASING PLANS AND MECHANICAL SCHEDULES FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
S11	PROVIDE 4" CONDUIT FOR NEW PANEL "1C-NH3C" DOWN TO FLOOR BELOW. ROUTE THROUGH EXISTING PARTS OF THE FACILITY AND FIELD VERIFY BEST ROUTING PRIOR TO CONSTRUCTION. REFER TO POWER DISTRIBUTION RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

Revisions:	Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

ARCHITECT/ENGINEER OF RECORD

A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

STAMP

STATE OF KANSAS
ROBERT ANTHONY HANS
21246
LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

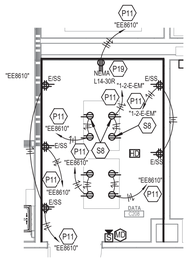
VA U.S. Department of Veterans Affairs

Drawing Title: BASEMENT AND FIRST FLOOR - CABLING PATH PLANS	Phase: BID DOCUMENTS	Project Title: VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY	Project Number: 589-701
Approved:			Building Number: 1 & 1C
		Location: WICHITA, KANSAS	Drawing Number: ES500
		Issue Date: 05/22/2020 / Checked: PDY / Drawn: RAH	

5/21/2020 5:47:41 PM

C:\Users\rhlepping\Documents\VAMR19 ELEC R18_2_rhlepping EZJR.rvt

VA FORM 08 - 6231

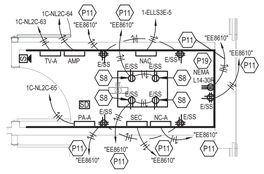


ROUTE ALL NEW DATA/VOICE CABLING (UON) FROM NEW DEVICES LOCATED ON THIS FLOOR LEVEL TO THIS NEW DATA CLOSET AS INDICATED ON DRAWING ES801

4 ENLARGED 2ND FLOOR PLAN - DATA C208

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8' 12' 16'



2 ENLARGED 2ND FLOOR PLAN - I.T. 243

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8' 12' 16'

1 SECOND FLOOR PLAN - CABLING PATH

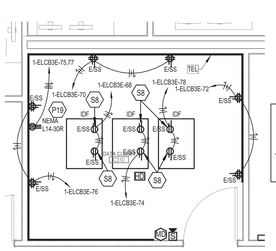
1/16" = 1'-0"

GENERAL NOTES (INTERCONNECTION):

A. THE CONTRACTOR SHALL VISIT SITE AND VERIFY THAT PULL BOXES AND CONDUITS MAY BE INSTALLED AS INDICATED. IF THERE IS A CONFLICT, CONTRACTOR SHALL NOTIFY ENGINEER 10 DAYS PRIOR TO BID. NO PRICE CHANGE WILL BE GIVEN FOR ANY ALTERNATE ROUTINGS OF CONDUIT AFTER THE CONTRACT HAS BEEN AWARDED. NOTIFY FACILITY ENGINEER AT LEAST 24 HOURS IN ADVANCE OF ANY VISIT.
B. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES (WHETHER EXISTING OR NEW).
C. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.
D. REMOVE AND RE-INSTALL ALL CEILING TILES, HARD CEILINGS, AND/OR GRID MEMBERS AS NECESSARY TO PERFORM WORK REQUIRED. TO ENSURE NEW REPLACEMENT CEILING TILES MATCH EXISTING TILES IN AREA, THE CONTRACTOR SHALL REMOVE TILES FROM DESIGNATED ROOM(S) AND USE THESE TO REPLACE DAMAGED CEILING TILES. ALL NEW CEILING TILES SHALL BE INSTALLED IN "DESIGNATED" ROOM(S) AT CLOSE OF PROJECT. COORDINATE "DESIGNATED" ROOM(S) WITH FACILITY ENGINEER. REPLACE TILES WITH NEW IF ACCEPTABLE TO OWNER.

TAGGED NOTES

P11	ROUTE NUMBER OF #12 CONDUCTORS AND ONE (1) #12 GROUND AS INDICATED IN 3/4" CONDUIT TO NEAREST AVAILABLE NEW / SPARE 20A/1P BREAKER(S) IN EXISTING PANEL INDICATED. VERIFY EXACT PANEL LOCATION(S) AND BRANCH CIRCUITING ROUTES PRIOR TO CONSTRUCTION. WHERE EXISTING PANEL IS FLUSH-MOUNTED IN AN EXSITING WALL TO REMAIN, CONTRACTOR SHALL CUT, PATCH, AND REPAIR WALL AS REQUIRED FOR CONCEALED CONDUIT ENTRY.
P19	PROVIDE NEMA #L14-30R RECEPTACLE FOR DATA RACK 6-KVA UPS UNIT.
S5	PROVIDE TWO (2) 2" CONDUIT SLEEVE(S) THROUGH WALLS() INDICATED. INSTALL SLEEVE(S) ABOVE SUSPENDED CEILING (WHERE APPLICABLE) IN-LINE WITH CABLING PATH. PROVIDE UL LISTED FIRE-RATED ASSEMBLY AT PENETRATION AS REQUIRED. REFER TO SLEEVE PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS (TYPICAL ALL PENETRATIONS).
S6	PROVIDE FOUR (3) 4" CONDUIT SLEEVE(S) THROUGH WALL(S) INDICATED. INSTALL SLEEVE(S) ABOVE SUSPENDED CEILING (WHERE APPLICABLE) IN-LINE WITH CABLING PATH. PROVIDE UL LISTED FIRE-RATED ASSEMBLY AT PENETRATION AS REQUIRED. REFER TO SLEEVE PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS (TYPICAL ALL PENETRATIONS).
S7	PROPOSED J-HOOK CABLING PATH. REFER TO J-HOOK DETAIL FOR ADDITIONAL REQUIREMENTS.
S8	MOUNT RECEPTACLES TO CABLE TRAY ABOVE.
S11	PROVIDE 4" CONDUIT FOR NEW PANEL "1C-NH3C" DOWN TO FLOOR BELOW. ROUTE THROUGH EXISTING PARTS OF THE FACILITY AND FIELD VERIFY BEST ROUTING PRIOR TO CONSTRUCTION. REFER TO POWER DISTRIBUTION RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
S12	PROVIDE FOUR (1) 4" CONDUIT SLEEVE(S) THROUGH WALL(S) INDICATED. INSTALL SLEEVE(S) ABOVE SUSPENDED CEILING (WHERE APPLICABLE). PROVIDE UL LISTED FIRE-RATED ASSEMBLY AT PENETRATION AS REQUIRED. REFER TO SLEEVE PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS (TYPICAL ALL PENETRATIONS).
S13	PROVIDE 1-1/4" CONDUIT FOR NEW PANEL "1C-NH3C" DOWN TO FLOOR BELOW. ROUTE THROUGH EXISTING PARTS OF THE FACILITY AND FIELD VERIFY BEST ROUTING PRIOR TO CONSTRUCTION. REFER TO POWER DISTRIBUTION RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
S14	PROVIDE FOUR (1) 2" CONDUIT SLEEVE(S) THROUGH WALL(S) INDICATED. INSTALL SLEEVE(S) ABOVE SUSPENDED CEILING (WHERE APPLICABLE). PROVIDE UL LISTED FIRE-RATED ASSEMBLY AT PENETRATION AS REQUIRED. REFER TO SLEEVE PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS (TYPICAL ALL PENETRATIONS).

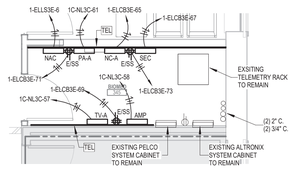


ROUTE ALL NEW DATA/VOICE CABLING (UON) FROM NEW DEVICES LOCATED ON THIS FLOOR LEVEL TO THIS NEW DATA CLOSET AS INDICATED ON DRAWING ES801

5 ENLARGED 3RD FLOOR PLAN - DATA C310

SCALE: 1/4" = 1'-0"

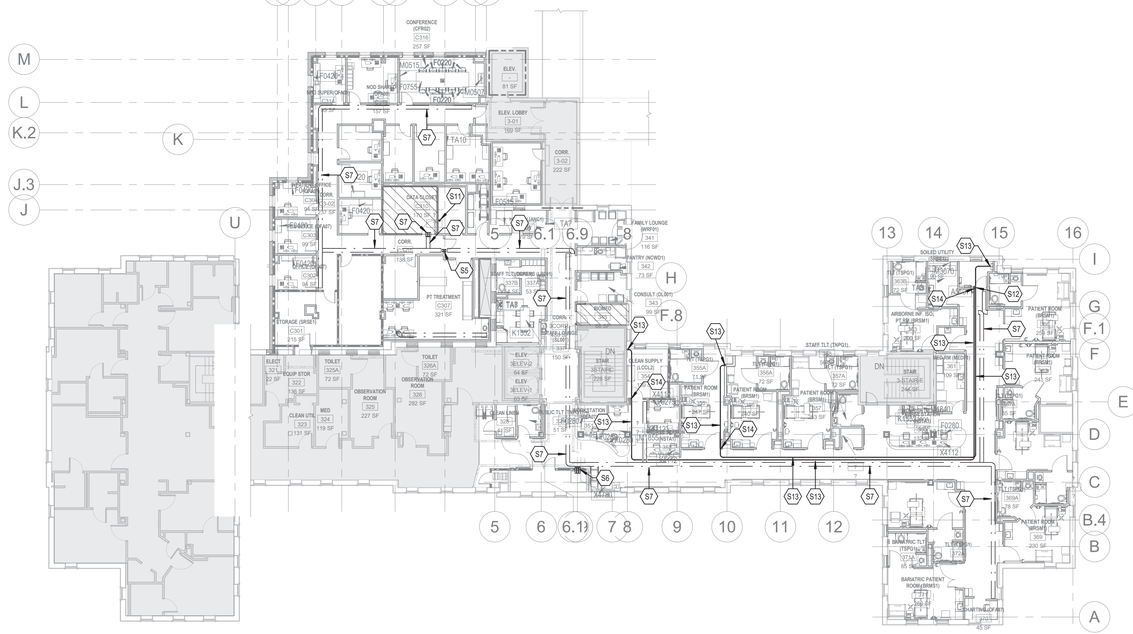
0 1' 2' 4' 8' 12' 16'



6 ENLARGED 3RD FLOOR PLAN - BIOMED 345

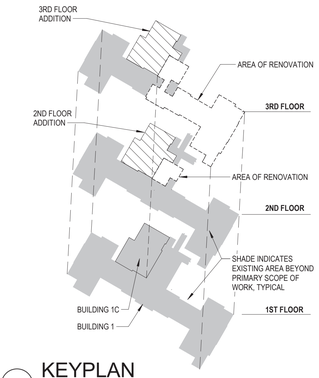
SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8' 12' 16'



3 THIRD FLOOR PLAN - CABLING PATH

1/16" = 1'-0"



KEYPLAN

1" = 100'-0"

Revisions:	Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

ARCHITECT/ENGINEER OF RECORD

A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

STAMP

STATE OF KANSAS — ROBERT ANTHONY HANS — 21246 — LICENSED PROFESSIONAL ENGINEER

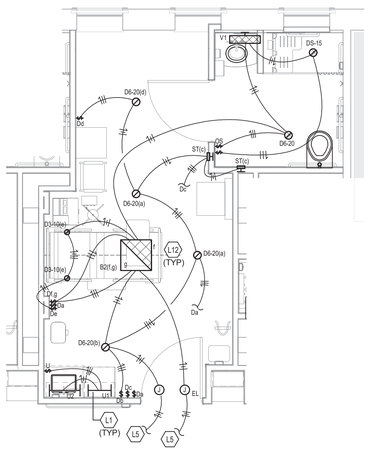
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	SECOND AND THIRD FLOOR - CABLING PATH PLANS
Phase	BID DOCUMENTS
Approved:	
Project Title	VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY
Project Number	589-701
Building Number	1 & 1C
Location	WICHITA, KANSAS
Issue Date	05/22/2020
Checked	PDY
Drawn	RAH
Drawing Number	ES501

C:\Users\mlepping\Documents\VAWR19 ELEC R18_2_mlepping\E22JR.rvt
5/21/2020 5:47:52 PM

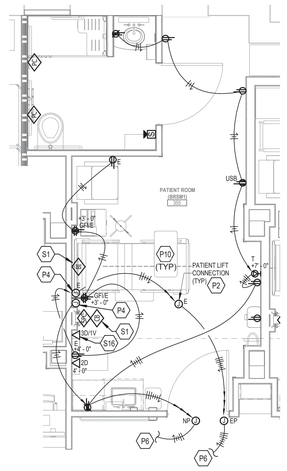
VA FORM 08 - 6231



ENLARGED 3RD FLOOR PLAN - TYPICAL PATIENT ROOM - LIGHTING

1 SCALE: 1/4" = 1'-0"

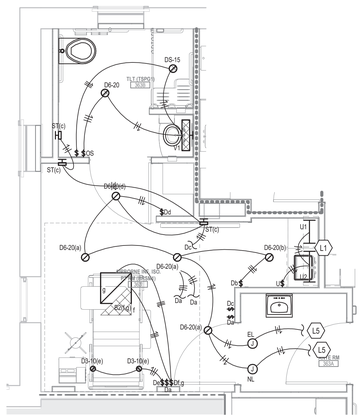
0 1' 2' 4' 8' 12' 16'



ENLARGED 3RD FLOOR PLAN - TYPICAL PATIENT ROOM - POWER / SYSTEMS

2 SCALE: 1/4" = 1'-0"

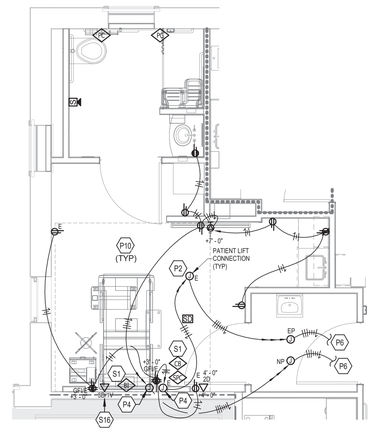
0 1' 2' 4' 8' 12' 16'



ENLARGED 3RD FLOOR PLAN - TYPICAL ISOLATION PATIENT ROOM - LIGHTING

3 SCALE: 1/4" = 1'-0"

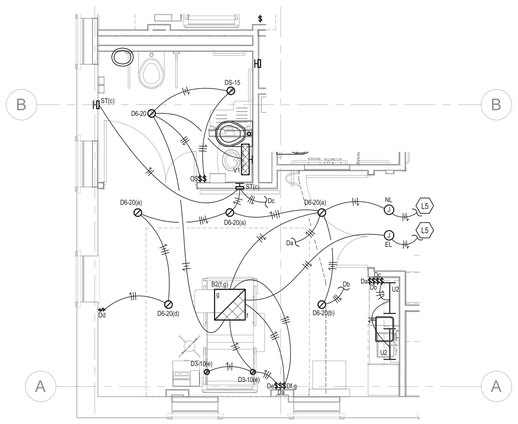
0 1' 2' 4' 8' 12' 16'



ENLARGED 3RD FLOOR PLAN - TYPICAL ISOLATION PATIENT ROOM - POWER / SYSTEMS

4 SCALE: 1/4" = 1'-0"

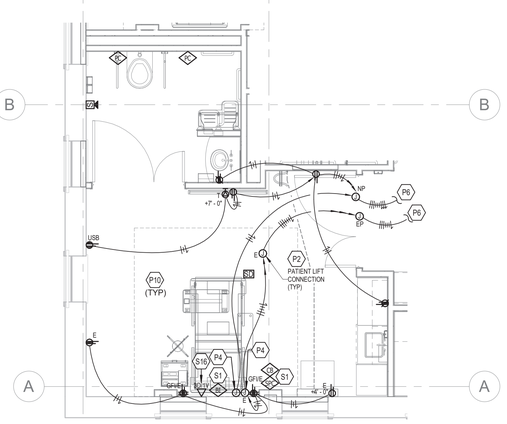
0 1' 2' 4' 8' 12' 16'



ENLARGED 3RD FLOOR PLAN - TYPICAL BARIATRIC PATIENT ROOM - LIGHTING

6 SCALE: 1/4" = 1'-0"

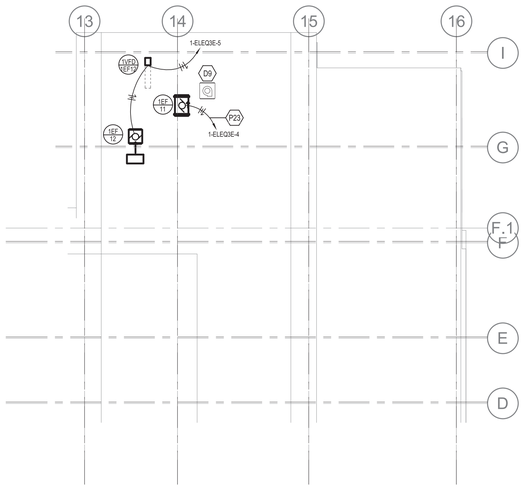
0 1' 2' 4' 8' 12' 16'



ENLARGED 3RD FLOOR PLAN - TYPICAL BARIATRIC PATIENT ROOM - POWER / SYSTEMS

5 SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8' 12' 16'



ATTIC PLAN - ELECTRICAL

7 SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 24' 32'

GENERAL NOTES (ROOF):

A. REFER TO POWER, SYSTEMS, AND LIGHTING PLANS FOR GENERAL NOTES APPLICABLE TO INTERIOR SPACES SHOWN ON THIS PLAN.
B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE ENGRAVED LAMACOID LABLES FOR ALL EXTERIOR DEVICES. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
D. PROVIDE UNI-STRUT AS REQUIRED FOR MOUNTING OF ALL DEVICES ON ROOF. COORDINATE WITH ROOFING CONTRACTOR PRIOR TO CONSTRUCTION FOR ALL PENETRATIONS. SEAL PENETRATIONS AS REQUIRED PER ROOFING CONTRACTOR AND ROOFING MANUFACTURER'S RECOMMENDATIONS AS REQUIRED TO MAINTAIN ROOF WARRANTY. PROVIDE CURBS AND/OR FLASHED BOOTS AT ALL DEVICES AND PENETRATIONS.
E. CONDUITS SHALL PENETRATE ROOF FROM BELOW AS CLOSE TO FINAL ROOF EQUIPMENT TERMINATION POINT AS POSSIBLE. SUPPORT ALL ROOF MOUNTED CONDUITS AT INTERVALS NOT EXCEEDING 10 FEET WITH STRUT-BASED SUPPORT SYSTEM. SUPPORT SYSTEM TO BE CADDY PYRAMID ST SERIES OR APPROVED EQUAL.
F. ALL CONDUIT EXPOSED TO DIRECT SUNLIGHT SHALL BE AT LEAST 12" ABOVE THE ROOF-TOP. NO CONDUIT SHALL BE EXPOSED TO DIRECT SUNLIGHT BELOW THIS HEIGHT.
G. WHERE RACEWAY OR CONDUCTORS ARE INSTALLED EXPOSED ON ROOF, DERATE AMPACITY OF CONDUCTORS IN ACCORDANCE WITH NEC.
H. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
I. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25 FT OF EACH MECHANICAL UNIT AS REQUIRED BY NEC. COORDINATE INSTALLATION LOCATIONS WITH FINAL EQUIPMENT LAYOUT PROVIDE BY MECHANICAL CONTRACTOR.
J. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED IN CEILING SPACE BELOW ROOF DECK UNO.

TAGGED NOTES

D9	EXISTING EQUIPMENT INDICATED TO REMAIN AS IS.
L1	PROVIDE 120V/1Ø POWER FROM RECEPTACLE CIRCUIT SERVING COUNTER TOP RECEPTACLES BELOW.
L5	REFER TO FLOOR PLANS FOR LIGHTING CIRCUIT CONTINUATION.
L12	REFER TO ARCHITECT'S DRAWINGS, DETAILS, ELEVATIONS, ETC. FOR ADDITIONAL REQUIREMENTS, EQUIPMENT LOCATIONS, ETC. FOR ALL TYPICAL PATIENT ROOMS.
P2	PROVIDE 120V/1Ø CONNECTION FOR PATIENT LIFT. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO ROUGH-IN.
P4	JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING DIRECTLY ABOVE PATIENT BED HEAD WALL UNIT. CONNECT NORMAL AND EMERGENCY CRITICAL BRANCH POWER CIRCUITS TO HEAD WALL UNIT AS REQUIRED. REFER TO ARCHITECT'S PATIENT HEADWALL UNIT DETAIL FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
P6	REFER TO FLOOR PLANS FOR POWER CIRCUITING CONTINUATION.
P10	REFER TO ARCHITECT'S DRAWINGS, DETAILS, ELEVATIONS, ETC. FOR ADDITIONAL REQUIREMENTS, EQUIPMENT LOCATIONS, ETC. FOR ALL TYPICAL PATIENT ROOMS.
P23	ROUTE THROUGH MANUFACTURER'S INTEGRAL DISCONNECT SWITCH. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
S1	NURSE CALL PATIENT BED INTERFACE AND CODE BLUE STATION TO BE INSTALLED IN PRE-MANUFACTURED HEAD WALL. COORDINATE EXACT REQUIREMENTS WITH FINAL HEADWALL SELECTIONS AND MANUFACTURER'S SPECIFICATIONS. REFER TO ARCHITECT'S PATIENT HEADWALL UNIT DETAIL FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
S16	PROVIDE JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING DIRECTLY ABOVE PATIENT BED HEAD WALL UNIT FOR DATA CONNECTION AS REQUIRED. REFER TO ARCHITECT'S PATIENT HEADWALL UNIT DETAIL FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

GENERAL NOTES (ENLARGED AND TYPICAL):

A. ALL ROOM LAYOUTS ARE TYPICAL AND MAY VARY OR MIRROR OTHER ASSOCIATED ROOMS. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE EACH ROOM PRIOR TO ROUGH-IN.

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
C. ALL DEVICE COVERPLATES SHALL BE #302 STAINLESS STEEL. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. ENGRAVE DEVICE COVERPLATES FOR IDENTIFICATION. ALL JUNCTION BOXES (LABEL INTERIOR OF BOX WHERE "IN WALL" SWITCHES AND OUTLET BOXES) SHALL BE LABELED WITH THE VOLTAGE, PHASE, CIRCUIT NUMBER AND PANEL OF ORIGIN. A BLACK MARKER SHALL BE ACCEPTABLE FOR JUNCTION BOX LABELING. ALL CONDUCTORS IN A SINGLE CONDUIT / CONDUIT BODY SHALL ORIGINATE FROM THE SAME PANEL. THE GROUND CONDUCTOR SHALL BE BONDED TO THE BOX AT ANY DEVICE OR JUNCTION BOX WHICH HAS CONNECTIONS IN IT.
D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT, SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
F. WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.
G. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
H. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
I. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
J. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

GENERAL NOTES (POWER / SYSTEMS):

A. THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN (U.O.N.) AND THICK SOLID LINES INDICATE NEW WORK.
B. ALL NEW WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (U.O.N.). CONDUIT SHALL BE 3/4" MINIMUM.
C. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
D. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
E. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
F. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
G. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
H. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.
I. ALL DEVICE COVERPLATES SHALL BE #302 STAINLESS STEEL. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. ENGRAVE DEVICE COVERPLATES FOR IDENTIFICATION. ALL JUNCTION BOXES (LABEL INTERIOR OF BOX WHERE "IN WALL"SWITCHES AND OUTLET BOXES) SHALL BE LABELED WITH THE VOLTAGE, PHASE, CIRCUIT NUMBER AND PANEL OF ORIGIN. A BLACK MARKER SHALL BE ACCEPTABLE FOR JUNCTION BOX LABELING. ALL CONDUCTORS IN A SINGLE CONDUIT / CONDUIT BODY SHALL ORIGINATE FROM THE SAME PANEL. THE GROUND CONDUCTOR SHALL BE BONDED TO THE BOX AT ANY DEVICE OR JUNCTION BOX WHICH HAS CONNECTIONS IN IT.
J. ALL CEILING MOUNTED DEVICES, FIXTURES, ETC. SHALL BE INSTALLED COMPLETELY FLUSH WITH FINISHED CEILING. CAREFULLY COORDINATE WITH DRYWALL CONTRACTOR TO ENSURE A FLUSH INSTALLATION. DRYWALL CONTRACTOR SHALL TAPE, MUD, AND SAND AS NEEDED. NO GAP BETWEEN DEVICE/FIXTURE AND CEILING WILL BE ACCEPTABLE. IF DEEMED THE ONLY SOLUTION BY THE ARCHITECT OR ENGINEER, THIS CONTRACTOR SHALL PROVIDE AN APPROVED SEALANT TO SEAL ANY SUCH GAPS THAT EXIST. A FINAL WALK-THROUGH SHALL BE SCHEDULED WITH THE OWNER TO APPROVE THE FINISHED CEILING CONDITION.
K. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
L. WHERE ANY RECEPTACLE IS LOCATED WITHIN 6'-0" OF SINK, CONTRACTOR SHALL PROVIDE "GFCI" TYPE OUTLET OR CONNECT CIRCUIT TO A 20A/1P GFCI TYPE CIRCUIT BREAKER. REFER TO ARCHITECTURAL PLANS FOR SINK LOCATIONS.
M. PROVIDE COORDINATION DRAWINGS FOR REVIEW (BETWEEN FURNITURE VENDOR, LAB EQUIPMENT VENDORS & CONTRACTOR) PRIOR TO ROUGH-IN(S).

Revisions:	Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

ARCHITECT/ENGINEER OF RECORD

A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

STAMP

STATE OF KANSAS
ROBERT ANTHONY HANS
21246
LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ENLARGED PLANS	Phase: BID DOCUMENTS	Project Title: VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY	Project Number: 589-701
Approved:			Building Number: 1 & 1C
		Location: WICHITA, KANSAS	Drawing Number: ES502
		Issue Date: 05/22/2020 / Checked: PDY / Drawn: RAH	

5/21/2020 5:47:58 PM

C:\Users\mlepping\Documents\VKMR19 ELEC R18_2_mlepping\E22JR.rvt

VA FORM 08 - 6231

POWER RISER GENERAL NOTES :

- ALL CONDUCTORS SHALL BE COPPER (SEE SPECIFICATIONS FOR TYPES).
- REFER TO DETAIL FOR TYPICAL PANEL LABELLING REQUIREMENTS.
- ALL "I-LINE" PANELS SHALL BE AS SCHEDULED ON THIS RISER (EXCEPT WHERE INDICATED, THE CONTRACTOR SHALL REFER TO THE PANELBOARD SCHEDULES FOR COMPLETE BREAKER SCHEDULE).
- AS PART OF THIS CONTRACT, PROVIDE A COMPREHENSIVE ARC FLASH HAZARD ANALYSIS FOR POWER DISTRIBUTION DEVICES ON THIS PROJECT. PROVIDE ALL LABELS, WARNING SIGNAGE, ETC. PER NFPA-70E AND OSHA REQUIREMENTS.
- CONTRACTOR SHALL INSTALL SEPARATE CONDUITS, PULL BOXES, ETC. FOR EACH EMERGENCY POWER BRANCH & NORMAL POWER PER N.E.C. #517-30 (C)(1) FOR COMPLETE SEPARATION OF POWER SERVICES.

- AS PART OF THIS CONTRACT, PROVIDE A COORDINATION/FAULT CURRENT STUDY FOR BREAKERS ON THIS PROJECT. STUDY SHALL INCLUDE ALL MAINS AND FEEDERS SHOWN ON THESE DRAWINGS AND SHALL EXTEND TO THE MAIN LUGS OR BREAKER OF THE FURTHEST DEVICE DOWNSTREAM. ALL NEW BREAKERS ON THE EMERGENCY POWER SYSTEM SHALL BE SELECTIVELY COORDINATED TO 0.1 SECONDS PER NEC (NFPA-70) #700.25. EQUIPMENT PRESENTLY SHOWN IS THE BASIS OF DESIGN – OTHER MANUFACTURERS LISTED AS EQUALS MAY NEED TO MODIFY LAYOUTS AND EQUIPMENT IN ORDER TO MEET THIS REQUIREMENT. ALL MANUFACTURERS MUST UTILIZE ELECTRONIC TRIP BREAKERS WITH ADJUSTABLE TRIP SETTINGS WHERE REQUIRED TO MEET SELECTIVE COORDINATION REQUIREMENTS. WHERE MODIFICATION TO EQUIPMENT INDICATED ON THESE DRAWINGS IS REQUIRED IN ORDER TO ACHIEVE COORDINATION, THESE CHANGES SHALL BE CLEARLY NOTED IN THE STUDY. WHERE ACTUAL BREAKER AMPACITIES ARE INCREASED TO ACHIEVE COORDINATION, THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING ALL COST ASSOCIATED WITH THESE CHANGES IN THEIR BID (INCLUDING INCREASES IN FEEDER SIZES). SUBMIT STUDY AS SHOP DRAWING TO ENGINEER PRIOR TO ORDERING ANY POWER DISTRIBUTION EQUIPMENT. ANY EQUIPMENT SUBMITTED PRIOR TO SUBMISSION OF THIS STUDY WILL NOT BE REVIEWED.

PANELBOARD SCHEDULE SYMBOLS :
GFI PROVIDE G.F.C.I. TYPE CIRCUIT BREAKER
PANELBOARD SCHEDULE NOTES :
A. ALL NEW PANELBOARDS SHALL BE ORDERED WITH "DOOR-IN-DOOR" OPTION. B. PROVIDE LOCK-OUT TYPE CIRCUIT BREAKERS FOR ALL HARD-WIRED EQUIPMENT. C. REFER TO SPECIFICATIONS FOR EQUAL PANELBOARD MANUFACTURERS D. PROVIDE NEW TYPE WRITTEN PANEL DIRECTORIES AT ALL PANELBOARDS. PANEL DIRECTORIES SHALL NOT BE COPIED FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. E. PROVIDE NEW PANELBOARD KEY LOCK KITS AT ALL NEW PANEL TRIMS TO MATCH EXISTING AT FACILITY.
SPARE CONDUIT NOTE:
PROVIDE (4) SPARE 1" CONDUITS TO ACCESSIBLE CEILING FROM ALL NEW RECESSED PANELBOARDS.

FEEDER SCHEDULE :

A. PROVIDE (3) #3, (1) #8 GROUND IN 1-1/4" CONDUIT.
B. PROVIDE (3) #4/0, (1) #6 GROUND IN 2-1/2" CONDUIT.
C. PROVIDE (3) #500 Kcmil, (1) #3 GROUND IN 4" CONDUIT.
D. PROVIDE (3) #2/0, (1) #6 GROUND IN 2" CONDUIT.
E. PROVIDE (3) #1, (1) #6 GROUND IN 1-1/2" CONDUIT.
F. PROVIDE (3) #3, (1) #6 GROUND IN 2" CONDUIT.

POWER RISER TAGGED NOTES :

1. PROVIDE AN INDIVIDUALLY MOUNTED MOLDED CASE BREAKER MOUNTED IN A FLUSH, NEMA-1 ENCLOSURE (SIZE AS NOTED) FOR NEC REQUIRED LOCAL DISCONNECTING MEANS.
2. INTERCEPT EXISTING POWER FEEDER AT NEW JUNCTION BOX AS REQUIRED.

POWER RISER LINE LEGEND

- EXIST. TO REMAIN
- REMOVE
- NEW AS INDICATED

ELEC RISER - PANEL SUMMARY

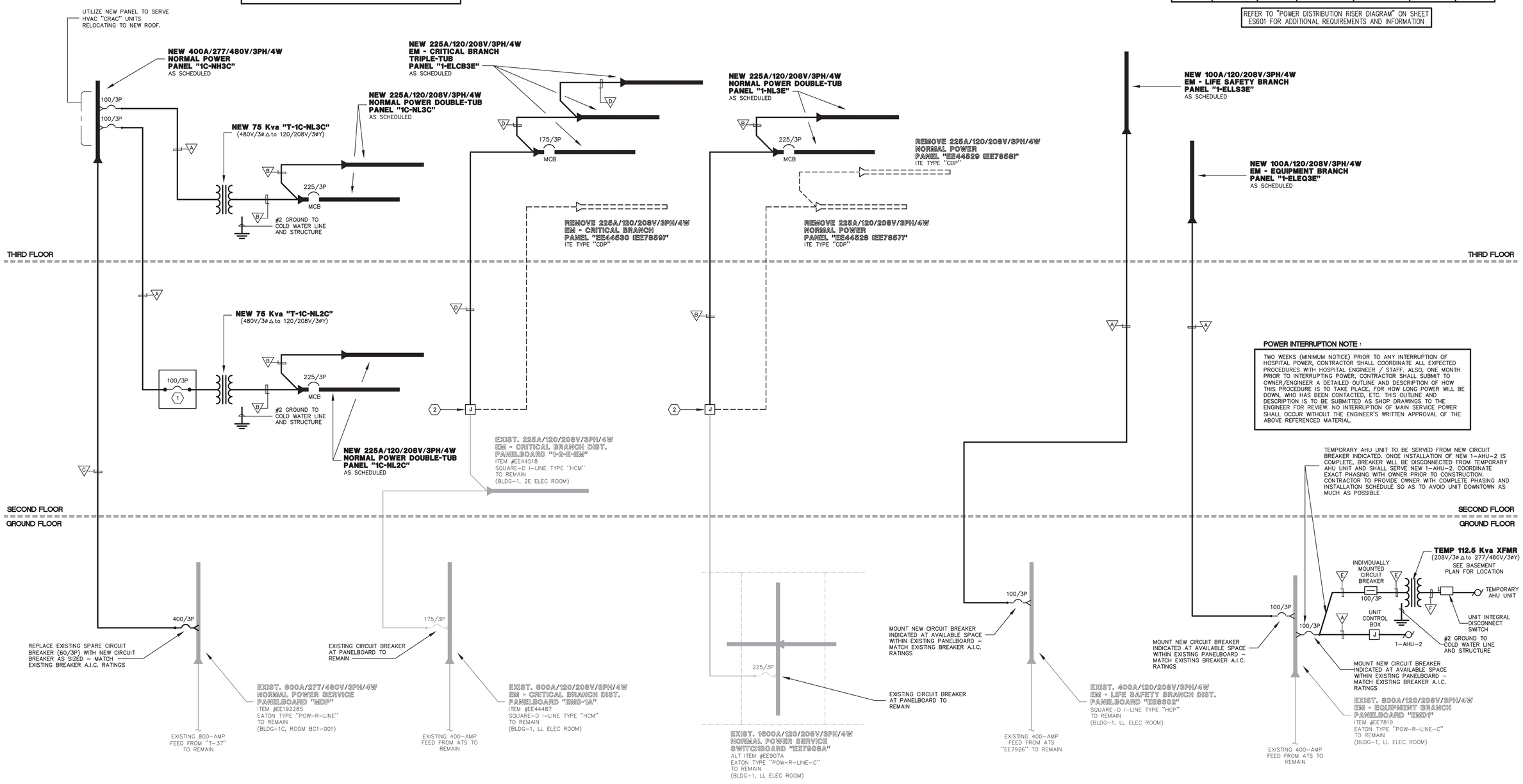
PANEL NAME	LOCATION	FED FROM	VOLTAGE	NUMBER OF POLES	PANEL RATING	MAINS	AIC	MOUNTING
1-ELCB3E	ELEC CLOSET 362	1-2-E-3M	208 V	3	225 A	225A/3P MCB	22	SURFACE
1-ELEQ3E	ELEC CLOSET 362	EMD1	208 V	3	100 A	MLO	22	SURFACE
1-ELLS3E	ELEC CLOSET 362	EE8602	208 V	3	100 A	MLO	22	SURFACE
1-NL3E	ELEC CLOSET 362	EE7908A	208 V	3	225 A	225A/3P MCB	22	SURFACE
1C-NH3C	ELEC CLOSET C309	MDP	480 V	3	400 A	MLO	22	SURFACE
1C-NL2C	ELEC C207	T-1C-NL2C	208 V	3	100 A	225A/3P MCB	22	SURFACE
1C-NL3C	ELEC CLOSET C309	T-1C-NL3C	208 V	3	225 A	225A/3P MCB	22	SURFACE

REFER TO "POWER DISTRIBUTION RISER DIAGRAM" ON SHEET ES601 FOR ADDITIONAL REQUIREMENTS AND INFORMATION

ELEC RISER - TRANSFORMER SCHEDULE

NAME	SIZE	MOUNT	PRIMARY VOLTAGE	SECONDARY VOLTAGE	PRIMARY DISCONNECT	SECONDARY DISCONNECT
T-1C-NL2C	75 kVA	FLOOR	480V	208V	PANEL MCB	DISCONNECT SWITCH
T-1C-NL3C	75 kVA	FLOOR	480V	208V	PANEL MCB	PANEL CIRCUIT BREAKER

REFER TO "POWER DISTRIBUTION RISER DIAGRAM" ON SHEET ES601 FOR ADDITIONAL REQUIREMENTS AND INFORMATION



POWER DISTRIBUTION RISER DIAGRAM

NO SCALE

Revisions:	Date:

CONSULTANT
Consultant:
CMTA CONSULTING ENGINEERS, INC
10411 MEETING STREET
PROSPECT, KY 40059

ARCHITECT/ENGINEER OF RECORD
A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

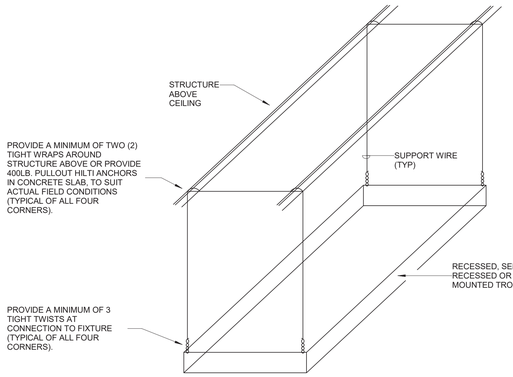
STAMP: STATE OF KANSAS – ROBERT ANTHONY HANS 21246 – LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	POWER DISTRIBUTION RISER DIAGRAM AND DETAILS
Phase	BID DOCUMENTS
Approved:	
Project Title	VA WICHITA - MED SURG BEDS FOR PATIENT PRIVACY
Location	WICHITA, KANSAS
Issue Date	05/22/2020
Checked	PDY
Drawn	RAH
Project Number	589-701
Building Number	1 & 1C
Drawing Number	ES601

V:\Projects\VKMR19\8. Elec\1. Drawings\VKMR19_ES601.dwg-Work May 21, 2020-5:40pm - mlepping

VA FORM 08 - 6231

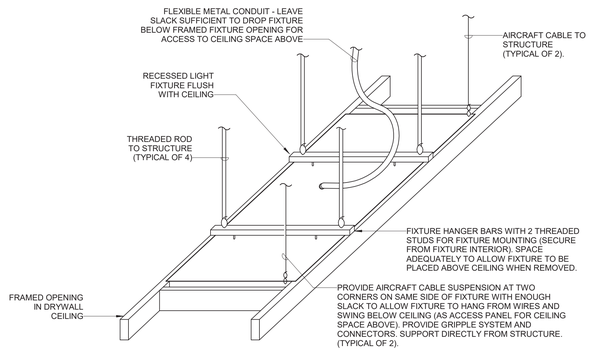


GENERAL TROFFER SUPPORT DETAIL NOTES:

1. SUPPORT WIRES SHALL BE GALVANIZED REGULAR COATING, SOFT TEMPER, 0.1055 INCHES IN DIAMETER (12 GAGE).
2. ALTERNATELY, CONTRACTOR MAY SUPPORT FIXTURES WITH SINGLE WIRE FROM ALL FOUR CORNERS OF FIXTURE PER SPECIFICATIONS WITH NUMBER OF TWISTS AT FIXTURE AND NUMBER OF WRAPS AROUND STRUCTURE INDICATED IN THIS DETAIL.

3 TROFFER SUPPORT DETAIL

SCALE: NONE

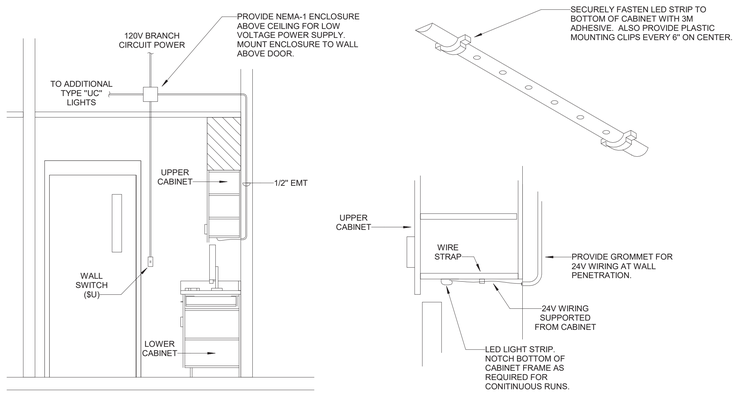


NOTES:

A. COORDINATE ABOVE CEILING WORK WITH ALL TRADES TO ENSURE COMPONENTS ABOVE CEILING REQUIRING ACCESS ARE INSTALLED IN SUCH A WAY THAT THEY CAN BE ACCESSED THROUGH FIXTURE OPENING.
B. COMPLETE INSTALLATION SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

2 FIXTURE ACCESS IN DRYWALL CEILING DETAIL

SCALE: NONE



NOTES

- PROVIDE LED STRIPS WITH ALL 24V FITTINGS REQUIRED.
- LOW VOLTAGE POWER SUPPLY SHALL REQUIRE 277V HARDWIRED CONNECTION.
- PROVIDE LINE VOLTAGE WALL SWITCH FOR ALL ROOMS WITH TYPE "UC" LIGHTING. SWITCH SHALL CONTROL ALL TYPE "UC" LIGHTS IN ROOM.
- CONNECT TYPE "UC" LIGHTING TO 277V NORMAL POWER LIGHTING CIRCUIT IF PRESENT IN ROOM. OTHERWISE CONNECT TO 277V EMERGENCY POWER LIGHTING CIRCUIT IN ROOM.

4 LIGHT FIXTURE TYPE "UC" INSTALLATION DETAIL

SCALE: NONE

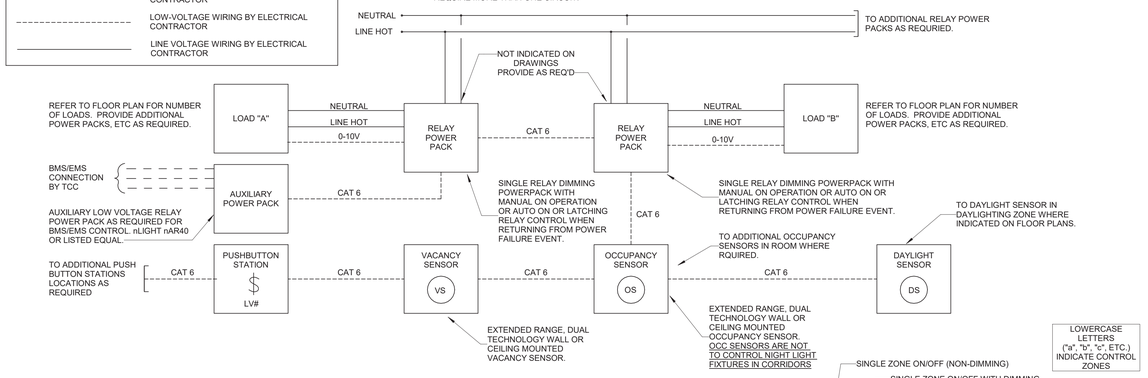
ELEC - LUMINAIRE SCHEDULE

TYPE	Count	DESCRIPTION	BASIS OF DESIGN	EQUALS	CCT	DELIVERED LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A1	100	2X4 LED FLAT PANEL, LOW OUTPUT	METALUX #24CZ-LD5-35-S-L835-HCD-1-U	LITHONIA EQUAL, APPROVED EQUAL	LED/3500K	3500 LUMENS	25	120	
A1F	2	2X4 LED FLAT PANEL, LOW OUTPUT, WITH DRYWALL FRAME KIT	METALUX #24FPX-31-L835-GL-HCD-DF-24W-U-DF-24-W	LITHONIA EQUAL, APPROVED EQUAL	LED/3500K	3500 LUMENS	25	120	
A2	1	2X4 LED FLAT PANEL, MEDIUM OUTPUT	METALUX #24CZ-LD5-45-S-L835-HCD-1-U	LITHONIA EQUAL, APPROVED EQUAL	LED/3500K	4500 LUMENS	36	120	
A3	7	2X4 LED FLAT PANEL, HIGH OUTPUT	METALUX #24CZ-LD5-60-S-L835-HCD-1-U	LITHONIA EQUAL, APPROVED EQUAL	LED/3500K	6000 LUMENS	52	120	
B1	69	2X2 LED FLAT PANEL, LOW OUTPUT	METALUX #22CZ-LD5-34-S-L835-HCD-1-U	LITHONIA EQUAL, APPROVED EQUAL	LED/3500K	3560 LUMENS	31	120	
B2	10	2X2 DECORATIVE PANEL, HIGH OUTPUT	VISA LIGHTING #CM1938-L35K-H-90CRI-XXX	APPROVED EQUAL	LED/3500K	5500 LUMENS	72	120	
D3-10	20	3" RECESSED ADJUSTABLE LED CAN LIGHT	LUMENPULSE #LACS-B-L13-35K-CR80-N-RD-WH-DA1	APPROVED EQUAL	LED/3500K	1000 LUMENS	37	120	ARCHITECT TO SELECT FINAL FINISH PRIOR TO ORDERING. CONFIRM ACTUAL CEILING TYPES AND INSTALLATION REQUIREMENTS WITH ARCHITECT'S FINAL CEILING PLANS PRIOR TO ORDERING OF MATERIALS. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION
D4-15	23	4" RECESSED LED CAN LIGHT	PORTFOLIO #LD4B-15-D010-EU4B-1020-835-4LBM-1H	APPROVED EQUAL	LED/3500K	1500 LUMENS	16	120	ARCHITECT TO SELECT FINAL FINISH PRIOR TO ORDERING. CONFIRM ACTUAL CEILING TYPES AND INSTALLATION REQUIREMENTS WITH ARCHITECT'S FINAL CEILING PLANS PRIOR TO ORDERING OF MATERIALS. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR A COMPLETE IN
D6-20	75	6" RECESSED LED CAN LIGHT	PORTFOLIO #LD6B-20-D010-EU6B-1020-835-6LBM-1H	APPROVED EQUAL	LED/3500K	2000 LUMENS	21	120	ARCHITECT TO SELECT FINAL FINISH PRIOR TO ORDERING. CONFIRM ACTUAL CEILING TYPES AND INSTALLATION REQUIREMENTS WITH ARCHITECT'S FINAL CEILING PLANS PRIOR TO ORDERING OF MATERIALS. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR A COMPLETE IN
DS-15	11	6" RECESSED SHALLOW LENS LED SHOWER CAN LIGHT	HALO PD6-15-D010-PDM6A-835-64V-H	APPROVED EQUAL	LED/3500K	1500 LUMENS	15	120	ARCHITECT TO SELECT FINAL FINISH PRIOR TO ORDERING. CONFIRM ACTUAL CEILING TYPES AND INSTALLATION REQUIREMENTS WITH ARCHITECT'S FINAL CEILING PLANS PRIOR TO ORDERING OF MATERIALS. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR A COMPLETE IN
F1	20	4FT LED ROUND STRIP FIXTURE WITH LENS	WILLIAMS #75R-4-L50-835-DRV	METALUX EQUAL, APPROVED EQUAL	LED/3500K	4214 LUMENS	35	120	
F2	1	2FT LED ROUND STRIP FIXTURE WITH LENS	WILLIAMS #75R-2-L50-835-DRV	METALUX EQUAL, APPROVED EQUAL	LED/3500K	2162 LUMENS	18	120	
ST	21	RECESSED AMBER NIGHT LIGHT	FAIL-SAFE #MSN-UNV-W	APPROVED EQUAL	LED/3500K	AMBER LIGHTS 30 LUMENS MINIMUM	5	120	
TL	4	LED TAPE LIGHT	JESCO #XX-DL-FLEX2-SHO-3590	APPROVED EQUAL	LED	1128 LUMENS/FT	9	120	
U1	18	18" LED UNDERCABINET FIXTURE	HALO #HU30-BSC-18-P	APPROVED EQUAL	LED/3500K	440 LUMENS	8	120	SPECIFY EXACT LENTGHS PRIOR TO ORDERING OF MATERIALS. PROVIDE LINEAR MOUNTING CHANNELS AS REQUIRED. REFER TO ARCHITECT'S DETAILS AND SECTION VIEWS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. PROVIDE REMOTE DIMMING DRIVER, CONSULT MANUFACTURER.
U2	21	24" LED UNDERCABINET FIXTURE	HALO #HU30-BSC-24-P	APPROVED EQUAL	LED/3500K	627 LUMENS	11	120	
V1	12	LED WALL MOUNT VAINTY FIXTURE	VISA LIGHTING #CB5513-L35K-H-GSIL	APPROVED EQUAL	LED/3500K	1500 LUMENS	15	120	ARCHITECT TO SELECT FINAL FINISH PRIOR TO ORDERING.
W1	1	LED WALL MOUNT ROOF TOP FIXTURE	LITHONIA #TWR2-LED-P1-40K-PE-DDBTXD	APPROVED EQUAL	LED/4000K	8000 LUMENS	64	120	PROVIDE WITH INTEGRAL PHOTOCELL FOR AUTOMATIC DUSK/DAWN OPERATION
X1	16	UNIVERSAL MOUNT LED EXIT SIGN	LITHONIA #EDGR-W-X-R-WM	APPROVED EQUAL	LED		2	120	PROVIDE ARROWS AND MOUNTING ACCESSORIES AS REQUIRED FOR INSTALLATION. MATCH ARROWS WITH ARCHITECT'S PATH OF EGRESS PLAN. REFER TO FLOOR PLANS FOR LOCATIONS, MOUTNING, AND QUANTITIES. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
X2	6	UNIVERSAL MOUNT, DOUBLE FACED, LED EXIT SIGN	LITHONIA #EDGR-W-X-R-WM	APPROVED EQUAL	LED		2	120	PROVIDE ARROWS AND MOUNTING ACCESSORIES AS REQUIRED FOR INSTALLATION. MATCH ARROWS WITH ARCHITECT'S PATH OF EGRESS PLAN. REFER TO FLOOR PLANS FOR LOCATIONS, MOUTNING, AND QUANTITIES. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.

GENERAL NOTES (LUMINAIRE SCHEDULE):

A. ALL LUMINAIRES AND COMPONENTS SHALL BE UL LISTED.
B. WHERE LUMINAIRES ARE SHOWN SPLIT-WIRED (HALF EMERGENCY POWER/ HALF NORMAL POWER) ON FLOOR PLANS, LUMINAIRES SHALL BE PROVIDED WITH MULTIPLE ELECTRONIC BALLASTS FOR MULTIPLE POWER CIRCUITS AS INDICATED ON FLOOR PLANS.
C. PROVIDE BALLASTS FOR FIXTURE LAMP SWITCHING AS INDICATED ON LIGHTING FLOOR PLANS. WHERE A SINGLE FIXTURE IS POWERED FROM NORMAL AND EMERGENCY POWER, HALF OF THE LAMPS WITH A MINIMUM OF TWO LAMPS SHALL BE ON EMERGENCY POWER.
D. CONTRACTOR SHALL FOCUS, AIM AND ADJUST LUMINAIRES UNDER THE SUPERVISION AND DIRECTION OF THE ENGINEER AND ARCHITECT. ALLOW LABOR FOR FINAL FOCUS AND ADJUSTMENTS AFTER DARK. LIFTS AND SCAFFOLDING SHALL BE AVAILABLE.
E. ALL LAY-IN FIXTURES SHALL BE PROVIDED WITH SCREW ON HOLD DOWN CLIPS AND MAXIMUM 6'-0" LONG FLEXIBLE CONDUIT WHIPS.
F. EXIT SIGNS AND FIXTURES THAT ARE HATCHED OR WHERE THE FIXTURE TYPE CONTAINS THE SUFFIX "E" FOR EMERGENCY OPERATION SHALL HAVE AN INTEGRAL 90 MINUTE BATTERY INVERTER IF NOT POWERED FROM AN EMERGENCY GENERATOR.
G. ALL BATTERY POWERED FIXTURES SHALL HAVE TEST SWITCHES FACTORY INSTALLED INTEGRAL TO THE REFLECTOR, REMOTE TEST SWITCHES WILL NOT BE ACCEPTED.

WIRING SCHEMATIC LEGEND	
– – – – – – – –	LOW-VOLTAGE WIRING BY MECH/CONTROLS CONTRACTOR
----------	LOW-VOLTAGE WIRING BY ELECTRICAL CONTRACTOR
————	LINE VOLTAGE WIRING BY ELECTRICAL CONTRACTOR



OCCUPANCY/VACANCY/DAYLIGHT SENSOR GENERAL NOTES :

1. VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF OCCUPANCY SENSOR PRIOR TO ROUGH-IN. THIS DIAGRAM IS MEANT TO BE ILLUSTRATIVE ONLY.
2. ALL POWER PACKS TO BE LOCATED IN CONCEALED LOCATIONS ABOVE ACCESSIBLE CEILINGS.
3. ALL UNITS TO BE DUAL TECHNOLOGY SENSORS WITH POWER PACKS.
4. PROVIDE J-HOOKS ON 4' CENTERS ABOVE CEILING FOR ALL CONTROL CABLING INDICATED BETWEEN RELAYS.
5. CONTRACTOR SHALL PROVIDE AN EXTRA 10' OF CONTROL WIRING COILED UP ABOVE CEILING AT OCCUPANCY SENSOR. WHERE MULTIPLE CIRCUITS SERVE ONE AREA, CONTRACTOR SHALL PROVIDE ADDITIONAL RELAY PACKS AS REQUIRED TO CONTROL ALL CIRCUITS IN ROOM TOGETHER. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR WIRING REQUIREMENTS.
6. WHERE MULTIPLE SENSORS AND MULTIPLE POWER PACKS ARE REQUIRED IN ONE ROOM, CONTRACTOR SHALL CONNECT SENSORS AND POWER PACKS SUCH THAT MOTION DETECTION BY ANY SENSOR IN THE ROOM SHALL ALLOW ALL CIRCUITS IN THE ROOM TO OPERATE. PROVIDE ALL ACCESSORIES AND WIRE DEVICES PER MANUFACTURER'S REQUIREMENTS FOR OPERATION AS DESCRIBED.
7. SYSTEM SHALL BE SENSOR SWITCH nLIGHT OR APPROVED EQUAL. SYSTEM SHALL BE PROVIDED, WIRED AND CONTROLLED AS A COMPLETE AND OPERABLE SYSTEM.
8. OCC SENSORS SHALL BE DUAL TECHNOLOGY (PIR AND ULTRASONIC) CEILING OR WALL TYPE. WHERE INDICATED AS WALL TYPE, PROVIDE WITH WITH RECESS BACKBOX, STUB-OUT AND GROMMETED COVERPLATE FOR CABLING. PROVIDE WITH ADDITIONAL EMS RELAY FOR BUILDING MANAGEMENT.
9. ALL NORMAL AND EMERGENCY LIGHTING (INCLUDING UNDER-CABINET LIGHTS) IN SENSOR ROOM/ZONE SHALL BE CONTROLLED BY VACANCY SENSOR UNLESS SPECIFICALLY OTHERWISE NOTED. PROVIDE APPROPRIATE NUMBER OF POWER PACKS AS REQUIRED. LIFE-SAFETY SHALL BE CONTROLLED BY VACANCY / OCCUPANCY SENSOR (AS NOTED) VIA EMERGENCY BY-PASS RELAY AS REQUIRED.
10. DAYLIGHT SENSOR OPERATION: DEVICE SHALL BE SET TO MAINTAIN 50FC. LOW DIMMING RANGE SHALL BE SET LOWER THAN 30% OF FIXTURES OUTPUT LEVEL. TRANSITION OFF TIME SHALL BE SET AT 10 MINUTES. TRANSITION ON TIME SHALL BE 45 SEC. SYSTEM SHALL BE "BURNT" IN FOR 100 HOURS. SYSTEM SHALL BE CONFIGURED AND TESTED PRIOR TO END OF PROJECT.

1 OCCUPANCY/VACANCY/DAYLIGHT SENSOR LIGHTING CONTROL WIRING DIAGRAM

SCALE: NONE

Revisions:	Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

ARCHITECT/ENGINEER OF RECORD

A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

STAMP

STATE OF KANSAS
ROBERT ANTHONY HANS
21246
LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: LIGHT FIXTURE SCHEDULE AND DETAILS	Phase: BID DOCUMENTS	Project Title: VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY	Project Number: 589-701
Approved:			Building Number: 1 & 1C
		Location: WICHITA, KANSAS	Drawing Number: ES701
		Issue Date: 05/22/2020 / Checked: PDY / Drawn: RAH	

C:\Users\mlepping\Documents\VAMR19 ELEC R18_2_mlepping#EZ2JR.rvt
5/21/2020 5:47:59 PM

VA FORM 08 - 6231

PANELBOARD AND WIRING SCHEDULE

PANEL: 1C-NH3C **MAINS TYPE:** MLO **kAIC VALUE:** 22
VOLTAGE: 480Y/277V,3P,4W **SPD:** No **LOCATION:** ELEC CLOSET C309
AMPERES: 400 A **MOUNTING:** SURFACE **SUPPLY FROM:**

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
							1	3.8	0.2					2							
1-RTU-1 (RETURN FAN)					20	3	3			3.8	0.2			4	3	20					1-RTU-1 (SUPPLY FAN)
							5					3.8	0.2	6							
							7	2.7	4.4					8							
E-1-CRAC1 (ROOF)					20	3	9			2.7	4.4			10	3	20					E-1-CRAC2 (ROOF)
							11					2.7	4.4	12							
							13	4.4	2.7					14							
E-1-CRAC3 (ROOF)					20	3	15			4.4	2.7			16	3	20					E-1-CRAC4 (ROOF)
							17					4.4	2.7	18							
							19							20							
							21							22							
							23							24							
							25							26							
							27							28							
							29							30							
							31							32							
							33							34							
							35							36							
							37	13.2	14.3					38							
XFMR "T-1C-NL3C"		3	8	1-1/4	100	3	39			15.0	14.6			40	3	100	1-1/4	8	3		XFMR "T-1C-NL2C"
							41					9.3	16.0	42							
						TOTAL LOAD (kVA):		45.6 kVA		47.8 kVA		43.4 kVA									
						TOTAL CURRENT (A):		166 A		174 A		157 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	63500 VA	100.00%	63500 VA	TOTAL CONNECTED LOAD:	136824 VA
LTNG	3664 VA	100.00%	3664 VA	TOTAL ESTIMATED DEMAND:	106994 VA
REC	69660 VA	57.18%	39830 VA	TOTAL CONNECTED CURRENT:	165 A
				TOTAL ESTIMATED DEMAND CURRENT:	129 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

REFER TO PANELBOARD SCHEDULE NOTES ON SHEET ES601

PANELBOARD AND WIRING SCHEDULE

PANEL: 1-ELEQ3E **MAINS TYPE:** MLO **kAIC VALUE:** 22
VOLTAGE: 208Y/120V,3P,4W **SPD:** **LOCATION:** ELEC CLOSET 362
AMPERES: 100 A **MOUNTING:** SURFACE **SUPPLY FROM:**

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
BAS PANEL - ELEC C207					20	1	1	0.5	0.5					2	1	20					BAS PANEL - ELEC C309
BAS PANEL - ELEC 362					20	1	3			0.5	0.7			4	1	20					1EF-11 ATTIC
1EF-12/VFD-1EF12 ATTIC					20	1	5					1.3	1.0	6	1	20					1-AC-1 DATA C208
1-AC-1 DATA C310					20	1	7	1.0						8							
							9							10							
							11							12							
							13							14							
							15							16							
							17							18							
							19							20							
							21							22							
							23							24							
							25							26							
							27							28							
							29							30							
							31							32							
							33							34							
							35							36							
							37							38							
							39							40							
							41							42							
						TOTAL LOAD (kVA):		2.0 kVA		1.2 kVA		2.3 kVA									
						TOTAL CURRENT (A):		18 A		10 A		20 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	5480 VA	100.00%	5480 VA	TOTAL CONNECTED LOAD:	5480 VA
				TOTAL ESTIMATED DEMAND:	5480 VA
				TOTAL CONNECTED CURRENT:	15 A
				TOTAL ESTIMATED DEMAND CURRENT:	15 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

REFER TO PANELBOARD SCHEDULE NOTES ON SHEET ES601

PANELBOARD AND WIRING SCHEDULE

PANEL: 1-ELLS3E **MAINS TYPE:** MLO **kAIC VALUE:** 22
VOLTAGE: 208Y/120V,3P,4W **SPD:** **LOCATION:** ELEC CLOSET 362
AMPERES: 100 A **MOUNTING:** SURFACE **SUPPLY FROM:**

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
LTNG - CORR. 3-2					20	1	1	0.4	0.3					2	1	20					LTNG - CORR. C3-01
2ND FLOOR - DOOR...					20	1	3			0.2	0.2			4	1	20					3RD FLOOR - DOOR...
NAC IT 243					20	1	5					0.5	0.5	6	1	20					NAC BIOMED 345
3RD FLOOR - DOOR...					20	1	7	0.0	0.2					8	1	20					LPA - EQUIP STOR 349
							9							10							
							11							12							
							13							14							
							15							16							
							17							18							
							19							20							
							21							22							
							23							24							
							25							26							
							27							28							
							29							30							
							31							32							
							33							34							
							35							36							
							37							38							
							39							40							
							41							42							
						TOTAL LOAD (kVA):		0.9 kVA		0.4 kVA		1.0 kVA									
						TOTAL CURRENT (A):		8 A		3 A		9 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1600 VA	100.00%	1600 VA	TOTAL CONNECTED LOAD:	2283 VA
LTNG	683 VA	100.00%	683 VA	TOTAL ESTIMATED DEMAND:	2283 VA
				TOTAL CONNECTED CURRENT:	6 A
				TOTAL ESTIMATED DEMAND CURRENT:	6 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

REFER TO PANELBOARD SCHEDULE NOTES ON SHEET ES601

PANELBOARD AND WIRING SCHEDULE

PANEL: 1C-NL2C **MAINS TYPE:** 225A/3P MCB **kAIC VALUE:** 22
VOLTAGE: 208Y/120V,3P,4W **SPD:** No **LOCATION:** ELEC C207
AMPERES: 100 A **MOUNTING:** SURFACE **SUPPLY FROM:** T-1C-NL2C

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
REC - RT SHARED C202					20	1	1	1.8	0.4					2	1	20					LTNG - CORR. C2-01
REC - RT SHARED C202					20	1	3			1.1	0.6			4	1	20					LTNG - MED TEAM C205
REC - RT OFFICE C203					20	1	5					0.7	0.8	6	1	20					LTNG - OFFICE C206
REC - MED TEAM C204					20	1	7	1.1	0.7					8	1	20					REC - MED TEAM C205
REC - MED TEAM C204					20	1	9			1.1	0.7			10	1	20					REC - MED TEAM C205
REC - MED TEAM C204					20	1	11					1.4	0.4	12	1	20					EWC - CORRI. 2CORR.
REC - MED TEAM C204					20	1	13	1.6	0.7					14	1	20					REC - MED TEAM C204
REC - MED TEAM C204					20	1	15			1.1	0.7			16	1	20					REC - MED TEAM C204
REC - MED TEAM C204					20	1	17					1.1	0.5	18	1	20					REC - RT EQUIP STOR. C210
PRINTER - TEAM C204					20	1	19	0.2	0.5					20	1	20					REC - RT EQUIP STOR. C210
MICROWAVE - TEAM C204					20	1	21			0.2	0.9			22	1	20					REC - MANAGER C217
REC - MED TEAM C205					20	1	23					1.1	1.3	24	1	20					REC - OAA C217
REC - MED TEAM C205					20	1	25	1.4	0.2					26	1	20					REC - PANTRY 241
REC - MED TEAM C205					20	1	27			1.4	0.2			28	1	20					ICE MACHINE - PANTRY 241
REC - MED TEAM C205					20	1	29					1.8	0.2	30	1	20					FRIDGE - PANTRY 241
PRINTER - TEAM C205					20	1	31	0.2	0.5					32	1	20					REC - CONSULT 242
MICROWAVE - TEAM C205					20	1	33			0.2	0.2			34	1	20					MICROWAVE - STAFF 228
REC - RT SOILED C209					20	1	35					0.9	0.2	36	1	20					COFFEE - STAFF 228
SPACE	--	--	--	--	--	--	37	0.0	0.0					38	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	39			0.0	0.0			40	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	41					0.0	0.0	42	--	--	--	--	--	--	SPACE
REC - OFFICE C206					20	1	43	1.4	0.2					44	1	20					REC - TOILET/SHWR C215A
REC - OFFICE C206					20	1	45			1.1	1.3			46	1	20					REC - NOCTURNIST C215
REC - DAYTURNIST C214					20	1	47					1.4	1.4	48	1	20					REC - DAYTURNIST C214
REC - ICU NURSE MGR C212					20	1	49	1.6	0.9					50	1	20					REC - STAFF TLT 228B
REC - RT EQUIP STOR. C210					20	1	51			0.5	1.1			52	1	20					REC - HSKP 229
REC - RT EQUIP STOR. C210					20	1	53					0.5	1.6	54	1	20					REC - OFFICE ICU C213
REC - STORAGE C219A					20	1	55	0.5	0.2					56	1	20					COFFEE - PANTRY 342
ROOF RECEPTACLES &...					20	1	57			0.8	0.5			58	1	20					REC - RT EQUIP STOR. C210
							59						0.2	60	1	20					VENDING - LOUNGE 240
							61							62							
TV-A IT 243					20	1	63			0.5	0.5			64	1	20					AMP IT 243
PA-A BIOMED 243					20	1	65					0.5		66							
							67							68							
							69							70							
							71							72							
SPACE	--	--	--	--	--	--	73	0.0	0.0					74	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	75			0.0	0.0			76	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	77					0.0	0.0	78	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	79	0.0	0.0					80	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	81			0.0	0.0			82	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	83					0.0	0.0	84	--	--	--	--	--	--	SPACE
						TOTAL LOAD (kVA):		14.3 kVA		14.6 kVA		16.0 kVA									
						TOTAL CURRENT (A):		119 A		122 A		134 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	2300 VA	100.00%	2300 VA	TOTAL CONNECTED LOAD:	44926 VA
LTNG	1766 VA	100.00%	1766 VA	TOTAL ESTIMATED DEMAND:	29496 VA
REC	40860 VA	62.24%	25430 VA	TOTAL CONNECTED CURRENT:	125 A
				TOTAL ESTIMATED DEMAND CURRENT:	82 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

REFER TO PANELBOARD SCHEDULE NOTES ON SHEET ES601

PANELBOARD AND WIRING SCHEDULE

PANEL: 1C-NL3C **MAINS TYPE:** 225A/3P MCB **kAIC VALUE:** 22
VOLTAGE: 208Y/120V,3P,4W **SPD:** No **LOCATION:** ELEC CLOSET C309
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:** T-1C-NL3C

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
REC - OFFICE C317					20	1	1	1.3	1.6					2	1	20					REC - OFFICE C318
REC - OFFICE C319					20	1	3			1.8	0.9			4	1	20					REC - STORAGE C308
REC - PANTRY 342					20	1	5					0.2	0.9	6	1	20					REC - DISCHARGE 343
1-EF-13 (ROOF)					20	1	7	0.5	1.1					8	1	20					REC - GEN STORAGE C305
REC - PT TREATMENT C307					20	1	9			1.4	1.1			10	1	20					REC - PT TREATMENT C307
REC - PT TREATMENT C307					20	1	11					1.1	0.9	12	1	20					REC - STAFF TLT 337B
COFFEE - STAFF 337					20	1	13	0.2	0.2					14	1	20					MICROWAVE - STAFF 337
REC - OFFICE C303					20	1	15			1.3	0.9			16	1	20					REC - OFFICE C304
COFFEE - PANTRY 342					20	1	17					0.2	0.5	18	1	20					PRINTER - NOD SUPER...
REC - NOD SUPER C314					20	1	19	1.8	0.5					20	1	20					REC
REC - CONFERENCE C316					20	1	21			0.7	1.1			22	1	20					REC - OFFICE C302
REC - OFFICE C311					20	1	23					1.1	1.1	24	1	20					REC - OFFICE C317
REC - OFFICE C318					20	1	25	0.7	1.1					26	1	20					REC - OFFICE C319
REC - OFFICE C320					20	1	27			1.1	1.4			28	1	20					REC - NOD SHARED C315
REC					20	1	29					0.4	1.4	30	1	20					REC - OFFICE C311
LTNG - PT TREATMENT...					20	1	31	0.7	0.4					32	1	20					LTNG - CORR. C3-01
LTNG - STORAGE C308					20	1	33			0.8	0.2			34	1	20					ICE MACHINE - PANTRY 342
FRIDGE - PANTRY 342					20	1	35					0.2	0.0	36	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	37	0.0	0.0					38	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	39			0.0	0.0			40	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	41					0.0	0.0	42	1	20	--	--	--		SPARE
							43	0.7	0.3					44							
E-1-EF1 (ROOF)					20	3	45			0.7	0.3			46	2	20					1-CU-1 (ROOF)
							47					0.7	0.3	48							
							49	0.2	0.3					50	2	20					1-CU-2 (ROOF)
E-1-EH1 (ROOF)					20	3	51			0.2	0.2			52							
							53					0.2	0.2	54	3	20					E-1-IH1 (ROOF)
REC - OFFICE C306					20	1	55	1.1	0.2					56							
TV-A BIOMED 345					20	1	57			0.5	0.5			58	1	20					AMP - BIOMED 345
							59							60							
PA-A BIOMED 345					20	1	61	0.5						62							
							63							64							
							65							66							
							67							68							
							69							70							
							71							72							
							73							74							
							75							76							
							77							78							
							79							80							
							81							82							
							83							84							
						TOTAL LOAD (kVA):		13.2 kVA		15.0 kVA		9.3 kVA									
						TOTAL CURRENT (A):		115 A		130 A		77 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	6800 VA	100.00%	6800 VA	TOTAL CONNECTED LOAD:	37498 VA
LTNG	1898 VA	100.00%	1898 VA	TOTAL ESTIMATED DEMAND:	28098 VA
REC	28800 VA	67.36%	19400 VA	TOTAL CONNECTED CURRENT:	104 A
				TOTAL ESTIMATED DEMAND CURRENT:	78 A

REFER TO PANELBOARD SCHEDULE NOTES ON SHEET ES601 SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: 1-ELCB3E **MAINS TYPE:** 225A/3P MCB **kAIC VALUE:** 22
VOLTAGE: 208Y/120V,3P,4W **SPD:** No **LOCATION:** ELEC CLOSET 362
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:**

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
LTNG - PATIENT RM 357					20	1	1	0.7	1.5					2	1	20					REC - PATIENT ROOM 355
LTNG - PATIENT RM 366					20	1	3			0.7	1.2			4	1	20					REC - PATIENT ROOM 355
LTNG - PATIENT RM 368					20	1	5					0.8	1.2	6	1	20					REC - PATIENT ROOM 355
LTNG - ELEC CLOSET C309					20	1	7	0.5	1.5					8	1	20					REC - PATIENT ROOM 356
REC - CORR. 3-2					20	1	9			0.5	1.2			10	1	20					REC - PATIENT ROOM 356
REC - CORR. 3-2					20	1	11					0.7	1.2	12	1	20					REC - PATIENT ROOM 356
REC - CORR. 3-3					20	1	13	0.7	1.5					14	1	20					REC - PATIENT ROOM 357
REC - CORR. 3-3					20	1	15			0.7	1.2			16	1	20					REC - PATIENT ROOM 357
REC - CORR. C3-01					20	1	17					0.7	1.2	18	1	20					REC - PATIENT ROOM 357
REC - CORR. C3-02					20	1	19	0.7	1.2					20	1	20					REC - PATIENT ROOM 363
CRASH CART - CORR. 302					20	1	21			0.2	1.5			22	1	20					REC - PATIENT ROOM 363
REC - ELEC CLOSET C309					20	1	23					0.2	1.2	24	1	20					REC - PATIENT ROOM 363
REC - EQUIP STOR 349					20	1	25	0.4	1.5					26	1	20					REC - PATIENT ROOM 366
REC - EQUIP STOR 349					20	1	27			0.4	1.2			28	1	20					REC - PATIENT ROOM 366
REC - MOBILE X-RAY 350					20	1	29					0.4	1.2	30	1	20					REC - PATIENT ROOM 366
REC - WORKSTATION 351					20	1	31	0.7	1.5					32	1	20					REC - PATIENT ROOM 367
REC - NURSE STA 352					20	1	33			1.1	1.2			34	1	20					REC - PATIENT ROOM 367
PYXIS - CLEAN SUPPLY 354					20	1	35					0.2	1.2	36	1	20					REC - PATIENT ROOM 367
SPACE	--	--	--	--	--	--	37	0.0	0.0					38	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	39			0.0	0.0			40	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	41					0.0	0.0	42	--	--	--	--	--	--	SPACE
REC - NURSE STA 360					20	1	43	1.1	1.2					44	1	20					REC - PATIENT ROOM 368
FRIDGE - NOURISH 360A					20	1	45			0.2	1.2			46	1	20					REC - PATIENT ROOM 368
PYXIS - MED RM 361					20	1	47					0.2	1.5	48	1	20					REC - PATIENT ROOM 368
PYXIS - MED RM 361					20	1	49	0.2	1.5					50	1	20					REC - PATIENT ROOM 369
PYXIS - MED RM 361					20	1	51			0.2	1.2			52	1	20					REC - PATIENT ROOM 369
PYXIS - MED RM 361					20	1	53					0.2	1.2	54	1	20					REC - PATIENT ROOM 369
FRIDGE - MED RM 361					20	1	55	0.2	1.5					56	1	20					REC - PATIENT ROOM 371
FRIDGE - MED RM 361					20	1	57			0.2	1.5			58	1	20					REC - PATIENT ROOM 371
REC - ELEC CLOSET 362					20	1	59					0.2	1.5	60	1	20					REC - PATIENT ROOM 371
PYXIS - SOILED UTLTY 365					20	1	61	0.2	1.5					62	1	20					REC - PATIENT ROOM 372
REC - CHARTING 370					20	1	63			0.7	1.2			64	1	20					REC - PATIENT ROOM 372
NC-A BIOMED 345					20	1	65					0.5	1.2	66	1	20					REC - PATIENT ROOM 372
SEC BIOMED 345					20	1	67	0.5	0.4					68	1	20					REC - DATA CLOSET C310
REC - BIOMED 345					20	1	69			0.4	0.7			70	1	20					REC - DATA CLOSET C310
REC - BIOMED 345					20	1	71					0.4	0.7	72	1	20					REC - DATA CLOSET C310
REC - BIOMED 345					20	1	73	0.4	0.4					74	1	20					REC - DATA CLOSET C310
NEMA 6-30P - DATA CLOSET C310					20	2	75			0.8	0.7			76	1	20					REC - DATA CLOSET C310
							77					0.8	0.4	78	1	20					REC - DATA CLOSET C310
SPACE	--	--	--	--	--	--	79	0.0	0.0					80	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	81			0.0	0.0			82	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	83					0.0	0.0	84	--	--	--	--	--	--	SPACE
SPARE		--	--	--	20	1	85	0.0	0.0					86	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	87			0.0	0.0			88	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	89					0.0	0.0	90	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	91	0.0	0.0					92	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	93			0.0	0.0			94	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	95					0.0	0.0	96	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	97	0.0	0.0					98	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	99			0.0	0.0			100	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	101					0.0	0.0	102	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	103	0.0	0.0					104	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	105			0.0	0.0			106	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	107					0.0	0.0	108	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	109	0.0	0.0					110	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	111			0.0	0.0			112	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	113					0.0	0.0	114	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	115	0.0	0.0					116	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	117			0.0	0.0			118	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	119					0.0	0.0	120	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	121	0.0	0.0					122	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	123			0.0	0.0			124	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	125					0.0	0.0	126	1	20	--	--	--		SPARE
						TOTAL LOAD (kVA):		21.3 kVA		20.0 kVA		18.8 kVA									
						TOTAL CURRENT (A):		179 A		168 A		157 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	42100 VA	100.00%	42100 VA	TOTAL CONNECTED LOAD:	59890 VA
LTNG	2670 VA	100.00%	2670 VA	TOTAL ESTIMATED DEMAND:	57330 VA
REC	15120 VA	83.07%	12560 VA	TOTAL CONNECTED CURRENT:	166 A
				TOTAL ESTIMATED DEMAND CURRENT:	159 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

REFER TO PANELBOARD SCHEDULE NOTES ON SHEET ES601

PANELBOARD AND WIRING SCHEDULE

PANEL: 1-NL3E **MAINS TYPE:** 225A/3P MCB **kAIC VALUE:** 22
VOLTAGE: 208Y/120V,3P,4W **SPD:** No **LOCATION:** ELEC CLOSET 362
AMPERES: 225 A **MOUNTING:** SURFACE **SUPPLY FROM:**

CIRCUIT DESCRIPTION	NOTE	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTE	CIRCUIT DESCRIPTION
REC - CORR. 3-2					20	1	1	0.7	0.9					2	1	20					LTNG - CORR. 3-2
REC - CORR. 3-3					20	1	3			0.5	0.5			4	1	20					LTNG - PATIENT RM 357
REC - PUBLIC TLT 329					20	1	5					0.4	0.5	6	1	20					LTNG - PATIENT RM 368
REC - NURSE STA 352					20	1	7	1.4	0.3					8	1	20					LTNG - PATIENT RM 366
PRINTER/FAX - WORK 353					20	1	9			0.4	1.2			10	1	20					POWER - PATIENT RM 355
REC -CLEAN SUPPLY 354					20	1	11					1.3	1.2	12	1	20					POWER - PATIENT RM 355
WARM CAB - CL SUPPLY 354					20	1	13	0.2	0.5					14	1	20					POWER - PATIENT RM 355
REC - NURSE STA 360					20	1	15			1.1	1.2			16	1	20					POWER - PATIENT RM 356
COPIER - NOURISH 360A					20	1	17					0.2	1.2	18	1	20					POWER - PATIENT RM 356
COFFEE - NOURISH 360A					20	1	19	0.2	1.2					20	1	20					POWER - PATIENT RM 356
ICE MACH - NOURISH 360A					20	1	21			0.2	1.2			22	1	20					POWER - PATIENT RM 357
REC - MED RM 361					20	1	23					0.4	1.2	24	1	20					POWER - PATIENT RM 357
REC - CHARTING 370					20	1	25	0.5	1.2					26	1	20					POWER - PATIENT RM 357
POWER - PATIENT RM 369					20	1	27			1.2	1.2			28	1	20					POWER - PATIENT RM 363
POWER - PATIENT RM 369					20	1	29					1.2	1.2	30	1	20					POWER - PATIENT RM 363
POWER - PATIENT RM 369					20	1	31	1.2	0.5					32	1	20					POWER - PATIENT RM 363
SPARE		--	--	--	20	1	33			0.0	0.0			34	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	35					0.0	0.0	36	1	20	--	--	--		SPARE
SPACE	--	--	--	--	--	--	37	0.0	0.0					38	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	39			0.0	0.0			40	--	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	--	41					0.0	0.0	42	--	--	--	--	--	--	SPACE
							43		1.2					44	1	20					POWER - PATIENT RM 366
							45				1.2			46	1	20					POWER - PATIENT RM 366
							47						1.2	48	1	20					POWER - PATIENT RM 366
POWER - PATIENT RM 372					20	1	49	1.2	1.2					50	1	20					POWER - PATIENT RM 367
POWER - PATIENT RM 372					20	1	51			1.2	1.2			52	1	20					POWER - PATIENT RM 367
POWER - PATIENT RM 372					20	1	53					1.2	1.2	54	1	20					POWER - PATIENT RM 367
RTU-1 HW PUMP (ROOF)					20	1	55	1.0	1.2					56	1	20					POWER - PATIENT RM 368
SPARE		--	--	--	20	1	57			0.0	1.2			58	1	20					POWER - PATIENT RM 368
SPARE		--	--	--	20	1	59					0.0	1.2	60	1	20					POWER - PATIENT RM 368
SPARE		--	--	--	20	1	61	0.0	0.0					62	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	63			0.0	0.0			64	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	65					0.0	0.0	66	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	67	0.0	0.0					68	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	69			0.0	0.0			70	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	71					0.0	0.0	72	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	73	0.0	0.0					74	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	75			0.0	0.0			76	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	77					0.0	0.0	78	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	79	0.0	0.0					80	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	81			0.0	0.0			82	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	83					0.0	0.0	84	1	20	--	--	--		SPARE
						TOTAL LOAD (kVA):		14.7 kVA		13.4 kVA		13.4 kVA									
						TOTAL CURRENT (A):		123 A		112 A		112 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	32000 VA	100.00%	32000 VA	TOTAL CONNECTED LOAD:	41554 VA
LTNG	2174 VA	100.00%	2174 VA	TOTAL ESTIMATED DEMAND:	41554 VA
REC	7380 VA	100.00%	7380 VA	TOTAL CONNECTED CURRENT:	115 A
				TOTAL ESTIMATED DEMAND CURRENT:	115 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

REFER TO PANELBOARD SCHEDULE NOTES ON SHEET ES601

5/21/2020 5:48:03 PM

C:\Users\mlepping\Documents\VKMR19 ELEC R18_2_mleppingEZ2JR.rvt

Revisions: Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC.
10411 MEETING STREET,
PROSPECT, KY 40059
(502)326-3085

ARCHITECT/ENGINEER OF RECORD

A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

STAMP

STATE OF KANSAS ROBERT ANTHONY HANS 21246 LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PANELBOARD SCHEDULES

Approved:

Phase: BID DOCUMENTS

Project Title: VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY

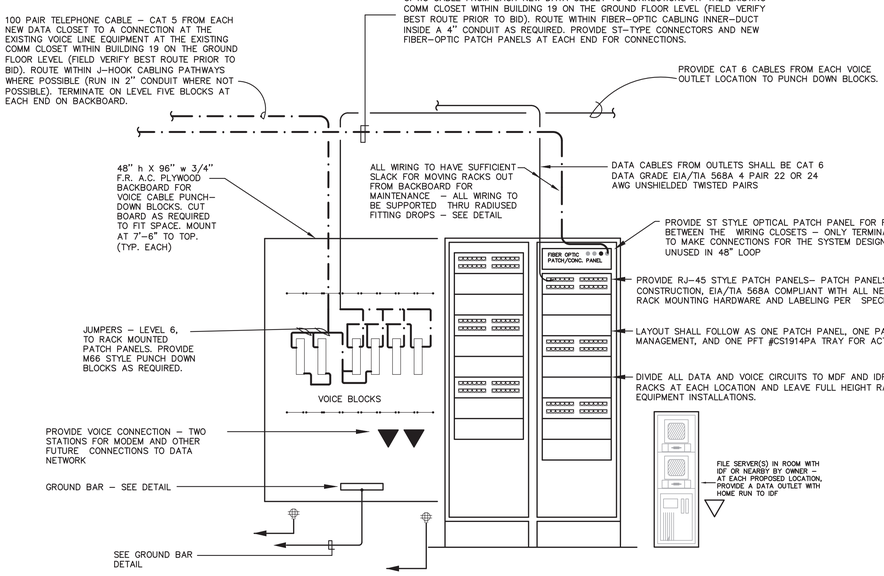
Location: WICHITA, KANSAS

Issue Date: 05/22/2020 | Checked: PDY | Drawn: RAH

Project Number: 589-701

Building Number: 1 & 1C

Drawing Number: ES702

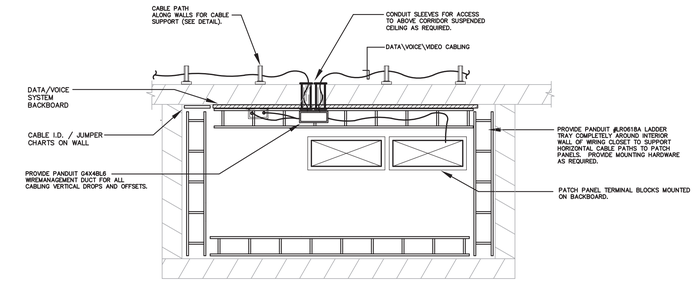


TYPICAL NEW DATA CLOSET

SECOND FLOOR DATA ROOM C208
THIRD FLOOR DATA ROOM C310)

DATA/VOICE SYSTEM SCHEMATIC LAYOUT OF WIRING CLOSETS - ELEVATION VIEWS

NO SCALE



DATA/VOICE SYSTEM SCHEMATIC LAYOUT OF WIRING CLOSETS - PLAN VIEW

NO SCALE

DATA/VOICE SYSTEM NOTES :

A. REFER TO SPECIFICATIONS FOR DATA–VOICE FACEPLATE AND DEVICE REQUIREMENTS.

B. ROUTE DATA/VOICE CABLES FROM OUTLETS SHOWN ON FLOOR PLANS TO THE NEW DATA/VOICE WIRING CLOSETS (2ND FLOOR: C208; 3RD FLOOR: C310) SHOWN ON THE ELECTRICAL SYSTEMS FLOOR PLANS. CONTRACTOR SHALL INSURE ALL RUNS SHALL BE NO GREATER THAN 300'.

C. REFER TO THE SPECIFICATIONS FOR DATA–VOICE CABLE REQUIREMENTS. ROUTE CABLING WITHIN THE CONDUIT STUB–OUT TO THE CORRIDOR CABLING PATH AND BACK TO THE NEW DATA/VOICE WIRING CLOSETS (2ND FLOOR: C208; 3RD FLOOR: C310) SHOWN ON THE ELECTRICAL SYSTEMS FLOOR PLANS. PROVIDE ADDITIONAL CABLING PATHS AS REQUIRED FOR ROUTE BACK TO THE EXISTING COMM CLOSET WITHIN BUILDING 19 (GROUND FLOOR).

D. PROVIDE ADDITIONAL PATCH PANELS TERMINAL BLOCKS WITH ALL NECESSARY GROUND KITS, RACK MOUNTING HARDWARE AND LABELING PER SPECIFICATION REQUIREMENTS AS REQUIRED TO ACCOMMODATE NEW CABLING BACK AT EXISTING DATA CLOSET. PROVIDE NEW VERTICAL DISTRIBUTION AND TRAY ASSEMBLIES AS NECESSARY FOR NEW CABLING AT NEW / EXISTING DATA CLOSET PER SPECIFICATION REQUIREMENTS.

E. PANDUIT OR AMP COMPANY PRODUCTS SHALL BE USED FOR PUNCH–DOWN BLOCKS, PATCH PANELS, CONNECTORS, ETC. – NO SUBSTITUTIONS, EXCEPT IF NOT AVAILABLE AT TIME OF CONSTRUCTION. PROVIDE NUMBER OF PUNCH BLOCKS AS REQUIRED FOR PROJECT. REFER TO SPECIFICATIONS.

F. CONTRACTOR SHALL PROVIDE (2) FULL SIZE SETS OF "TECHNOLOGY" DRAWINGS CONTAINING ALL LABELLED DATA/VOICE OUTLET LOCATIONS WITH "SOFT" COPY IN 1/8" SCALE AUTOCAD DRAWINGS TO BE GIVEN TO OWNER.

G. CONTRACTOR TO TAKE DOWN ALL EXISTING DATA "WIRELESS ACCESS POINTS" (WAPs) AS INDICATED AND STORE/PROTECT DURING CONSTRUCTION. PLACE BACK INTO NEW CEILING AT THE SAME APPROXIMATE LOCATION ONCE CEILING INSTALLATION IS COMPLETED (CLEAN UNITS PRIOR TO REINSTALLATION). NEW WIRING SHALL BE PROVIDED TO RELOCATED DEVICES AS REQUIRED. THE CONTRACTOR SHALL RE–CERTIFY SYSTEM FOR THE AFFECTED AREA ONCE INSTALLATION IS COMPLETED, PROVIDE ADDITIONAL "WAP" DEVICES (MATCH EXISTING) IF REQUIRED FOR RE–CERTIFICATION.

PHILLIPS TELEMETRY SYSTEM NOTES :

TAKE DOWN EXISTING DATA "PHILIPS TELEMETRY ANTENNAS" FROM SUSPENDED CEILINGS BEING REMOVED IN RENOVATED AREAS OF THE PROJECT AND TIE–OFF AT THE PRESENT LOCATION. CONTRACTOR SHALL PROTECT AND LEAVE THESE TELEMETRY ANTENNAS IN PLACE, SO AS NOT TO COMPROMISE EXISTING COVERAGE. PLACE BACK INTO NEW CEILING AT THE SAME APPROXIMATE LOCATION ONCE CEILING INSTALLATION IS COMPLETED (CLEAN UNITS PRIOR TO REINSTALLATION). NEW WIRING SHALL BE PROVIDED FROM EXISTING PHILLIPS TELEMETRY RACK (AT EQUIPMENT STORAGE 349) TO RELOCATED DEVICES AS REQUIRED. THE CONTRACTOR SHALL CONFIRM ALL DEVICE LOCATIONS (PRIOR TO ANY ROUGH–IN) WITH HOSPITAL'S SYSTEM VENDOR (PHILLIPS). CONTRACTOR TO VERIFY WITH PHILLIPS IF ANY NEW DATA DROP CABLES NEED TO BE ROUTED TO THE TELEMETRY RACK (AT EQUIPMENT STORAGE 349) INSTEAD OF TO THE NEW DATA RACKS AT DATA C208 / DATA C310. PROVIDE ADDITIONAL SYSTEM DEVICES (MATCH EXISTING) FOLLOWING VENDOR CONFIRMATION.

CONTRACTOR TO VERIFY BACKBOX SIZES AND EXACT ROUGH–IN REQUIREMENTS FOR WITH HOSPITAL'S SYSTEM VENDOR PHILLIPS PRIOR TO BID.

SECURITY ACCESS CONTROL (PACS) SYSTEM NOTES:

COORDINATE INSTALLATION OF SYSTEM WITH OWNER's SECURITY ACCESS CONTROL VENDOR. THE CURRENT SYSTEM "ADVANTOR" IS TO BE REPLACED WITH NEW SYSTEM HEAD–END ("C–PURE 9000" BY SOFTWARE HOUSE) BEING INSTALLED ON A SEPARATE E.D. RENOVATION PROJECT. ALL NEW DEVICES ON THIS PROJECT SHALL MATCH THE NEW "C–PURE 9000" SYSTEM BEING INSTALLED. PROVIDE AND INSTALL ALL NEW SYSTEM DEVICES (INCLUDE THIS "PRICING" IN THE ELECTRICAL BID). PROVIDE ALL CABLING AND INSTALL ALL ROUGH–IN's, POWER CONNECTIONS, ETC.

BADGE READER TYPE: 11000051 1 PROX READER KEYPAD PIV CLASS
BADGE READER SYSTEM: C–PURE 9000 BY SOFTWARE HOUSE

PROVIDE ALL EQUIPMENT, DEVICES, COMPONENTS, ALL WIRING, CONFIGURATION AND PROGRAMMING TO EXPAND THE EXISTING SYSTEMS TO ACCOMMODATE NEW DEVICES. NEW DEVICES SHALL BE SELECTED TO MATCH THE EXISTING IN CONSTRUCTION AND PERFORMANCE AND IN CONSISTENCY WITH THE EXISTING "C–PURE 9000" SYSTEM. PREPARE DRAWINGS INDICATING ALL DEVICES AND COMPONENTS TO BE ADDED INDICATING TYPE, MOUNTING HARDWARE, ZONES, ETC. ADD ADDITIONAL EQUIPMENT AS REQUIRED TO ACCOMMODATE THE NEW COMPONENTS AND DEVICES IN A MANNER CONSISTENT WITH THE CURRENT DESIGN OF THE "C–PURE 9000" SYSTEM. CURRENTLY THE CONNECTION POINT IS WITHIN THE HOSPITAL EMERGENCY DEPARTMENT (VERIFY EXACT CLOSET LOCATION PRIOR TO BID). MODIFY THE EXISTING CONSOLES AS REQUIRED TO ACCOMMODATE THE NEW DEVICES. PROVIDE ALL PROGRAMMING, BALANCING AND COMMISSIONING AS REQUIRED UP TO AND INCLUDING A COMPLETE RE–PROGRAM AND BALANCING OF THE EXISTING "C–PURE 9000" SYSTEM SO THAT THE ADDITION OF THE NEW DEVICES AND EQUIPMENT ARE INCORPORATED SEAMLESSLY INTO THE EXISTING HOSPITAL SYSTEMS. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR EXAMINING SITE CONDITIONS TO DETERMINE THE EXTENT OF THE EXPANSION REQUIRED TO MEET THE ABOVE PERFORMANCE REQUIREMENTS.

TAKE DOWN ALL EXISTING "WANDERGUARD" DEVICES WITHIN RENOVATED AREAS OF THE PROJECT, PROTECT AND STORE THEM UNTIL THEY CAN BE RELOCATED TO THE RENOVATED SPACE. NEW WIRING SHALL BE PROVIDED FROM PACS SYSTEM TO THESE RELOCATED DEVICES (LOCATE PER SYSTEM PARAMETERS AS REQUIRED). THE CONTRACTOR SHALL CONFIRM ALL DEVICE LOCATIONS (PRIOR TO ANY ROUGH–IN) WITH PACS SYSTEM COMPONENTS. PROVIDE ADDITIONAL NEW SYSTEM DEVICES (ABLE TO SEAMLESSLY INTEGRATE WITH EXISTING COMPONENTS) AS REQUIRED FOR SYSTEM OPERATION.

CONTRACTOR TO VERIFY BACKBOX SIZES AND EXACT ROUGH–IN REQUIREMENTS FOR SYSTEM WITH MANUFACTURER PRIOR TO BID.

SECURITY VIDEO SURVEILLANCE "CCTV" SYSTEM NOTES:

COORDINATE INSTALLATION OF SYSTEM WITH OWNER's CURRENT VIDEO SURVEILLANCE VENDOR. ALL NEW DEVICES ON THIS PROJECT SHALL MATCH THE EXISTING SYSTEM. PROVIDE AND INSTALL ALL NEW SYSTEM DEVICES (INCLUDE THIS "PRICING" IN THE ELECTRICAL BID). PROVIDE ALL CABLING AND INSTALL ALL ROUGH–IN's, POWER CONNECTIONS, ETC.

CAMERA: BOSCH FLEX DOME IP 8000i
VIDEO SURVEILLANCE SYSTEM: TYCO VIDEO–EDGE

PROVIDE ALL EQUIPMENT, DEVICES, COMPONENTS, ALL WIRING, CONFIGURATION AND PROGRAMMING TO EXPAND THE EXISTING SYSTEMS TO ACCOMMODATE NEW DEVICES. NEW DEVICES SHALL BE SELECTED TO MATCH THE EXISTING IN CONSTRUCTION AND PERFORMANCE AND IN CONSISTENCY WITH THE EXISTING "TYCO" SYSTEM. PREPARE DRAWINGS INDICATING ALL DEVICES AND COMPONENTS TO BE ADDED INDICATING TYPE, MOUNTING HARDWARE, ZONES, ETC. ADD ADDITIONAL EQUIPMENT AS REQUIRED TO ACCOMMODATE THE NEW COMPONENTS AND DEVICES IN A MANNER CONSISTENT WITH THE CURRENT DESIGN OF THE "TYCO" SYSTEM. CURRENTLY THE CONNECTION POINT IS WITHIN THE POLICE STATION BUILDING–19 DISPATCH AREA (VERIFY EXACT CLOSET LOCATION PRIOR TO BID). MODIFY THE EXISTING CONSOLES AS REQUIRED TO ACCOMMODATE THE NEW DEVICES. PROVIDE ALL PROGRAMMING, BALANCING AND COMMISSIONING AS REQUIRED UP TO AND INCLUDING A COMPLETE RE–PROGRAM AND BALANCING OF THE EXISTING "TYCO" SYSTEM SO THAT THE ADDITION OF THE NEW DEVICES AND EQUIPMENT ARE INCORPORATED SEAMLESSLY INTO THE EXISTING HOSPITAL SYSTEMS. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR EXAMINING SITE CONDITIONS TO DETERMINE THE EXTENT OF THE EXPANSION REQUIRED TO MEET THE ABOVE PERFORMANCE REQUIREMENTS.

CONTRACTOR TO VERIFY BACKBOX SIZES AND EXACT ROUGH–IN REQUIREMENTS FOR SYSTEM WITH MANUFACTURER PRIOR TO BID.

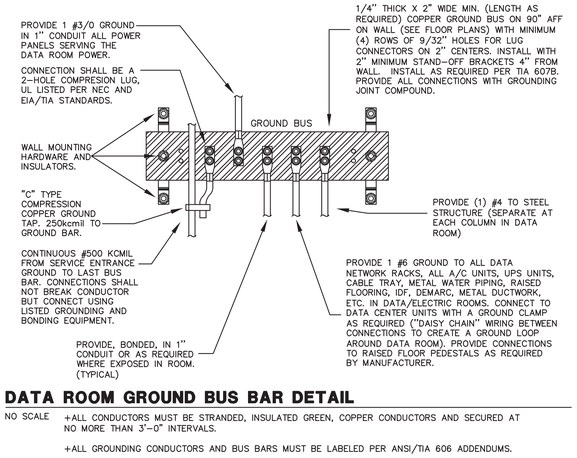
NURSE CALL SYSTEM NOTES:

COORDINATE INSTALLATION OF GE ASCOM TELLIGENCE SYSTEM WITH OWNER's VENDOR "ECC". CONTACT ELECTRONIC CONTRACTING COMPANY ("ECC") AT 316–265–7878. "ECC" TO PROVIDE AND INSTALL ALL DEVICES (INCLUDE THIS "PRICING" IN THE ELECTRICAL BID). "ECC" TO PROVIDE ALL CABLING FOR "EC" TO INSTALL. "EC" TO INSTALL ALL ROUGH–IN's, POWER CONNECTIONS, ETC. CODE BLUE ANNUNCIATION SHALL BE EXTENDED TO "PBX" AS REQUIRED. MODIFY THE EXISTING COMPONENT CABINETS AS REQUIRED TO ACCOMMODATE THE NEW DEVICES. PROVIDE ALL PROGRAMMING, BALANCING AND COMMISSIONING AS REQUIRED UP TO AND INCLUDING A COMPLETE RE–PROGRAM AND BALANCING OF THE EXISTING SYSTEM SO THAT THE ADDITION OF THE NEW DEVICES AND EQUIPMENT ARE INCORPORATED SEAMLESSLY INTO THE EXISTING HEAD–END EQUIPMENT LOCATED IN BUILDING 19 ON THE GROUND FLOOR LEVEL (FIELD VERIFY BEST CABLING IN CONDUIT INTERCONNECT ROUTE PRIOR TO BID). THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR EXAMINING SITE CONDITIONS TO DETERMINE THE EXTENT OF THE EXPANSION REQUIRED TO MEET THE ABOVE PERFORMANCE REQUIREMENTS.

CONTRACTOR TO VERIFY BACKBOX SIZES AND EXACT ROUGH–IN REQUIREMENTS FOR NURSE CALL RAULAND RESPONDER V SYSTEM WITH NURSE CALL SYSTEM MANUFACTURER PRIOR TO BID.

LOCAL PAGING SYSTEM NOTES:

PROVIDE ALL EQUIPMENT, SPEAKERS, COMPONENTS, ALL WIRING, CONFIGURATION AND PROGRAMMING TO EXPAND THE EXISTING PAGING SYSTEM TO ACCOMMODATE NEW AND RELOCATED SPEAKERS. UTILIZE AND RELOCATE EXISTING SPEAKERS WHERE POSSIBLE. NEW SPEAKERS SHALL BE SELECTED TO MATCH THE EXISTING IN CONSTRUCTION AND PERFORMANCE AND IN CONSISTENCY WITH THE EXISTING SPEAKERS AND AREAS (CONTACT JASON AT SHELLEY ELECTRIC 316–945–8311 FOR PREFERRED HOSPITAL SPEAKER TO USE). PREPARE DRAWINGS INDICATING ALL SPEAKERS TO BE ADDED OR RELOCATED, INDICATING TYPE, MOUNTING HARDWARE, CIRCUITING ZONE AND SUB–ZONE. ADD ADDITIONAL MATRIX SWITCHERS, AMPLIFIERS, CIRCUIT MONITORS AND OTHER EQUIPMENT AS REQUIRED TO ACCOMMODATE THE ADDITIONAL SPEAKERS AND ZONES IN A MANNER CONSISTENT WITH THE CURRENT DESIGN OF THE PAGING SYSTEM. MODIFY THE EXISTING CONSOLES AS REQUIRED TO ACCOMMODATE THE NEW SPEAKER ZONES. PROVIDE ALL PROGRAMMING, BALANCING AND COMMISSIONING AS REQUIRED UP TO AND INCLUDING A COMPLETE RE–PROGRAM AND BALANCING OF THE EXISTING PAGING SYSTEM SO THAT THE ADDITION OF THE NEW SPEAKERS AND EQUIPMENT ARE INCORPORATED SEAMLESSLY INTO THE EXISTING HOSPITAL PAGING SYSTEM. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR EXAMINING SITE CONDITIONS TO DETERMINE THE EXTENT OF THE EXPANSION REQUIRED TO MEET THE ABOVE PERFORMANCE REQUIREMENTS.

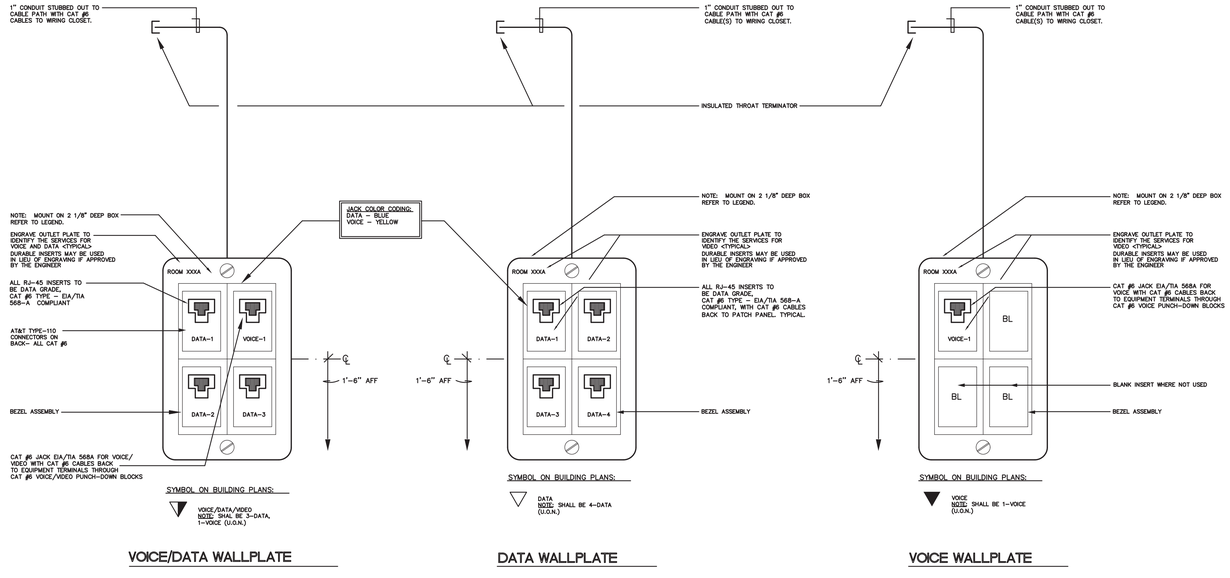


DATA ROOM GROUND BUS BAR DETAIL

NO SCALE

+ALL CONDUCTORS MUST BE STRANDED, INSULATED GREEN, COPPER CONDUCTORS AND SECURED AT NO MORE THAN 3'–0" INTERVALS.

+ALL GROUNDING CONDUCTORS AND BUS BARS MUST BE LABELED PER ANSI/TIA 606 ADDENDUMS.



DETAIL OF TYPICAL WALLPLATE TYPES FOR VOICE/DATA SYSTEMS

NO SCALE

Revisions:	Date:

CONSULTANT
Consultant:
CMTA CONSULTING ENGINEERS, INC
10411 MEETING STREET
PROSPECT, KY 40059
CMTA

ARCHITECT/ENGINEER OF RECORD
A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388
GUIDON

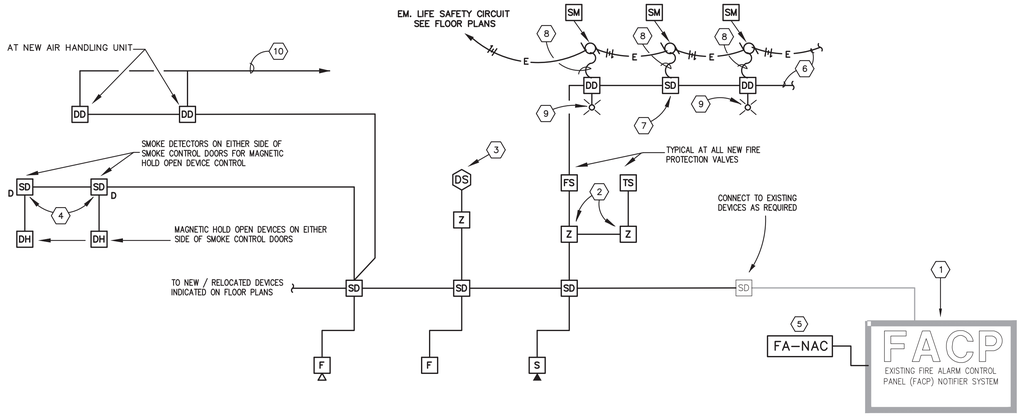
STAMP
STATE OF KANSAS
ROBERT ANTHONY HANS 21248
LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: TELECOMMUNICATION DETAILS	Phase: BID DOCUMENTS
Approved:	
Project Title: VA WICHITA - MED SURG BEDS FOR PATIENT PRIVACY	Project Number: 589-701
Location: WICHITA, KANSAS	Building Number: 1 & 1C
Issue Date: 05/22/2020 / Checked: PDY / Drawn: RAH	Drawing Number: ES801

V:\Projects\VKMR19\8. Elec\1. Drawings\VKMR19_ES801.dwg–Work May 21, 2020–5:40pm – mlepping

VA FORM 08 - 6231



FIRE ALARM RISER DIAGRAM

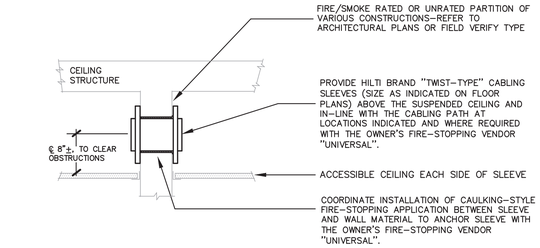
NO SCALE

GENERAL F.A. SYSTEM RISER NOTES :

- THIS RISER IS PARTIAL. ALL THE DEVICES CONNECTED TO THE "CDT" UNITS ARE NOT SHOWN). THE CONTRACTOR SHALL REFER TO THE ELECTRICAL FLOOR PLANS FOR THE COMPLETE F.A. SYSTEM.
- FIELD VERIFY THE EXACT NUMBER AND LOCATIONS OF ALL MECHANICALLY RELATED ITEMS (EX., SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.
- PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES (VIA "MONITOR ZAMS"). CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS. CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR COMPLETE INSTALLATION OF A CONNECTION TO EXISTING FIRE PROTECTION SWITCHES.
- ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMODATE BUILDING STANDARDS AS REQUIRED.
- NO SMOKE DETECTOR SHALL BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS. NOR CLOSER THAN 12" TO WALL/ CEILING INTERSECTIONS.
- A TECHNICAL REPRESENTATIVE OF FIRE ALARM MANUFACTURER SHALL BE PRESENT AT ALL TIMES DURING FIRE ALARM CERTIFICATION.
- WRITTEN CERTIFICATION OF ENTIRE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO OWNER & ENGINEER AT CLOSE OF PROJECT.
- ALL FIRE ALARM CABLING SHALL BE RAN COMPLETELY IN CONDUIT.
- AIR HANDLING UNITS SHALL ONLY SHUT DOWN WHEN SMOKE IS DETECTED AT THAT PARTICULAR AIR HANDLING UNIT (U.O.N.). SMOKE DAMPERS SHALL CLOSE ONLY WHEN SMOKE IS DETECTED AT THAT PARTICULAR SMOKE DAMPER BY ACTIVATION OF THE CONTROLLING SMOKE DETECTOR. REFER TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- RISER DIAGRAM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER, THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL'S OFFICE, ETC.
- DESCRIPTIVE ENTRIES FOR LOCATION OF FIRE ALARM DEVICES ARE TO BE TURNED OVER TO FIRE ALARM MANUFACTURER AS SOON AS POSSIBLE AFTER AWARD OF CONTRACT FOR RE-PROGRAMMING OF FIRE ALARM SYSTEM. COORDINATE WITH HOSPITAL ENGINEER FOR DESCRIPTIVE ENTRY DESIGNATIONS.
- CONTRACTOR TO PROVIDE A TEST OF THE EXISTING FIRE ALARM SYSTEM (PRIOR TO DEMOLITION) IN THE AREAS OF CONSTRUCTION AND OF THOSE ZONES THAT WILL BE EXTENDED INTO THE NEW ADDITION TO VERIFY THAT ALL CABLING AND DEVICES ARE IN WORKING ORDER AND THAT THERE ARE NO WIRING FAULTS WITHIN THE SYSTEM.
- CONTRACTOR TO UTILIZE THE SERVCES OF THE MAINTENANCE CONTRACTOR (PRESENTLY WORKING AT FACILITY ON OTHER CONSTRUCTION PROJECTS) FOR ALL FIRE ALARM SYSTEM MODIFICATIONS (DEMOLITION AND TERMINATION AT NEW DEVICES, PROGRAMMING REVISIONS, ETC.). CONTRACTOR MUST ENGAGE THE SERVICES OF THE MAINTENANCE CONTRACTOR AS PART OF THE PROJECT SCOPE. COORDINATE CONTACT INFORMATION WITH COR.

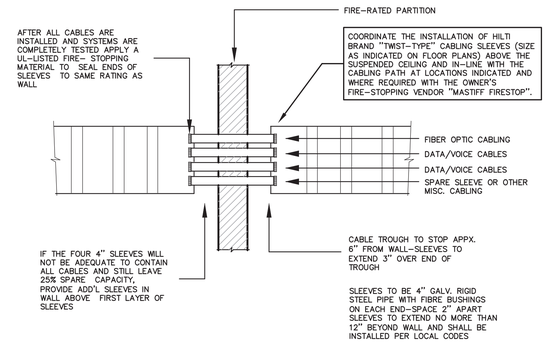
FIRE ALARM RISER TAGGED NOTES :

1. EXISTING NOTIFIER "CDT" (COMMUNICATING DEVICE TRANSPONDER). AS PART OF THIS CONTRACT, THIS CONTRACTOR SHALL MODIFY THE EXISTING SYSTEM COMPONENTS AS REQUIRED TO UPDATE THE EXISTING "MULTI-PLEX" FIRE ALARM SYSTEM FOR THE RENOVATED AREA AS REQUIRED.
2. PROVIDE MONITOR "ZAM's" (ZONE ADAPTER MODULES) FOR ADDRESSABLE SUPERVISION OF FIRE PROTECTION VALVES. MONITOR "ZAM's" SHALL BE SURFACE MOUNTED, IN A NEMA-1 ENCLOSURE, ABOVE SUSPENDED CEILING, AS REQUIRED.
3. PROVIDE CONNECTION TO AUTO / ELECTRIC STRIKE DOORS TO PROVIDE POSITIVE LATCHING UNDER ALARM CONDITIONS WITH MONITOR / CONTROL MODULE UNIT(S) IN A NEMA-1 ENCLOSURE AS REQUIRED. CONTRACTOR SHALL REFER TO ARCHITECTURAL DOOR SCHEDULES FOR EXACT LOCATION AND REQUIREMENTS. TYPICAL.
4. NEW SMOKE DETECTORS ON EITHER SIDE OF SMOKE CONTROL DOORS SHALL BE PROVIDED WITH A "RELAY BASE" (OR SEPARATE INTELLIGENT INTERFACE MODULE) THAT SHALL BE WIRED TO INDIVIDUALLY CONTROL EACH OF THE MAGNETIC HOLD OPENS, SO THAT NO OTHER ALARM SHALL ACTIVATE THE HOLD OPEN DEVICES. THIS DOOR HOLD-OPEN SMOKE DETECTOR SHALL ALSO SIMULTANEOUSLY ACTIVATE A "FULL" BUILDING WIDE FIRE ALARM TO THE FIRE ALARM SYSTEM AS SPECIFIED (TYPICAL).
5. PROVIDE NEW "NAC" (NOTIFICATION APPLIANCE CIRCUIT) POWER SUPPLY CABINET (NOTIFIER OR EQUAL) AS REQUIRED FOR ADDITIONAL AUDIO-VISUAL DEVICES BEING ADDED FOR THE PROJECT.
6. TO OTHER SMOKE DAMPER LOCATIONS ALONG A PARTICULAR SMOKE WALL (TYPICAL) – SEE SYSTEMS FLOOR PLANS FOR LOCATIONS.
7. WHERE H.V.A.C. SMOKE DAMPERS ARE LOCATED ABOVE CORRIDOR DOORS, THE CORRIDOR SMOKE DETECTOR (THE CLOSEST ONE TO THE SMOKE DAMPER) SHALL CONTROL THE SMOKE DAMPER.
8. ROUTE 120V POWER WIRING THROUGH CONTROLLING DUCT SMOKE / CEILING SMOKE DETECTOR's PROGRAMMABLE RELAY AND THEN TO THE SMOKE DAMPER AS REQUIRED. (TYPICAL).
9. PROVIDE NEW FLUSH-MOUNTED REMOTE ALARM/POWER INDICATING KEY RESET/TEST STATION ON CORRIDOR WALL (WHENEVER POSSIBLE) AT 7'-0" AFF BELOW SMOKE DAMPER LOCATION AS REQUIRED.
10. ROUTE CONTROL WIRING (IN CONDUIT) BACK TO NEW A.H.U. TEMPERATURE CONTROL PANEL FOR AUTOMATIC A.H.U. SHUTDOWN . THIS CONTRACTOR SHALL PROVIDE A REMOTE L.E.D. INDICATOR FOR EACH DETECTOR IF NOT SO MONITORED AT NEW A.H.U. CONTROL PANEL .



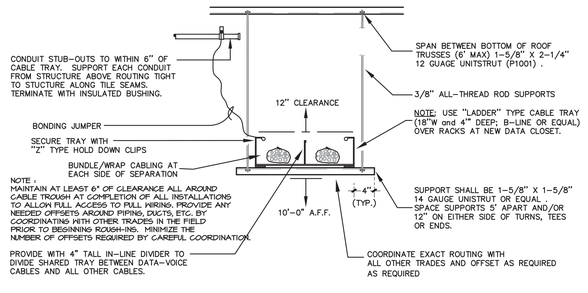
SYSTEMS CABLING SLEEVE INSTALLATION DETAIL

NO SCALE USE AT ALL "OPEN" TYPE CABLING PENETRATIONS THROUGH WALLS, FLOORS, ETC.



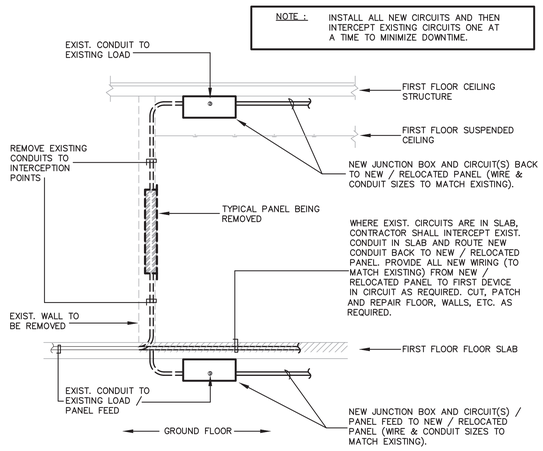
DETAIL OF CABLE TRAY PENETRATION THRU RATED WALL

NO SCALE



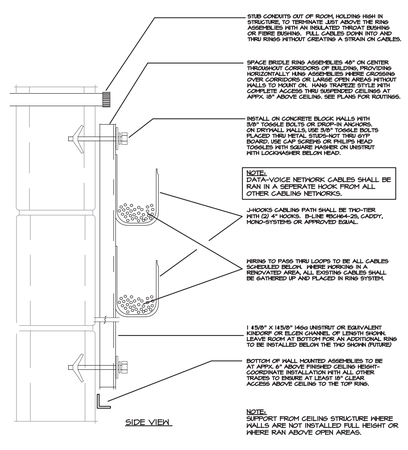
CABLE TRAY INSTALLATION DETAIL

NO SCALE



PANEL DEMOLITION DETAIL

NO SCALE

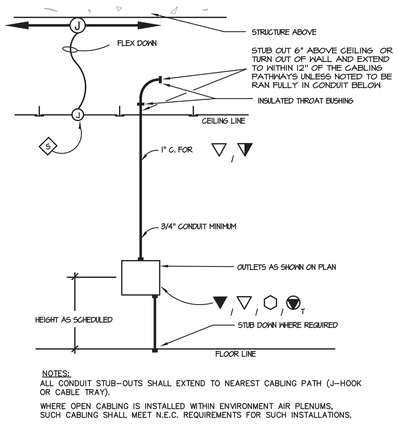


'J-HOOK' CABLING PATH INSTALLATION DETAIL

NO SCALE

NOTE:
CABLING FOR THE FOLLOWING SYSTEMS SHALL BE RAN FULLY IN CONDUIT AND NOT JUST TO THE CABLING PATHWAYS (FULL CONDUIT "HOMERUNS"). REFER ALSO TO SPECIFICATIONS SECTION "27 05 33, PART 3" FOR FURTHER INFORMATION.

NURSE CALL NC | SECURITY VIDEO CCTV CC | PHYSIOLOGICAL & TELEMETRY PATIENT MONITORING
FIRE ALARM FA | OVERHEAD PAGING S



NOTES:
ALL CONDUIT STUB-OUTS SHALL EXTEND TO NEAREST CABLING PATH (J-HOOK OR CABLE TRAY).

WHERE OPEN CABLING IS INSTALLED WITHIN ENVIRONMENT AIR PLENUMS, SUCH CABLING SHALL MEET N.E.C. REQUIREMENTS FOR SUCH INSTALLATIONS.

ROUGHING-IN DETAIL FOR STUB-OUTS

NO SCALE

Revisions:	Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC
10411 MEETING STREET
PROSPECT, KY 40059
CMTA

ARCHITECT/ENGINEER OF RECORD

A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388
GUIDON

STAMP

STATE OF KANSAS
ROBERT ANTHONY HANS
21246
LICENSED PROFESSIONAL ENGINEER

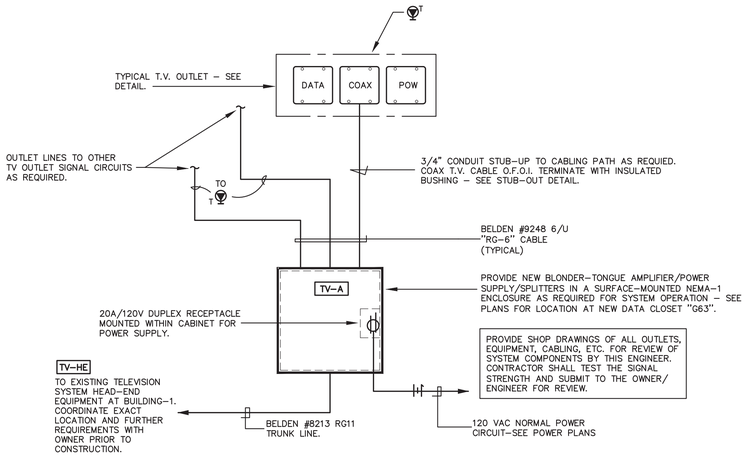
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS	Phase: BID DOCUMENTS	Project Title: VA WICHITA - MED SURG BEDS FOR PATIENT PRIVACY	Project Number: 589-701
Approved:			Building Number: 1 & 1C
		Location: WICHITA, KANSAS	Drawing Number: ES802
		Issue Date: 05/22/2020 / Checked: PDY / Drawn: RAH	

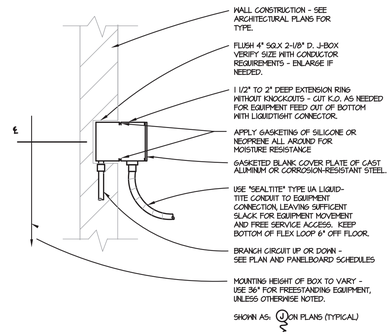
V:\Projects\VKMR19\8. Elec\1. Drawings\VKMR19_ES802.dwg-Work May 21, 2020-5:40pm - mlepping

VA FORM 08 - 6231



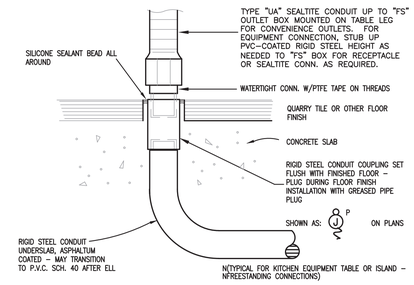
TELEVISION SYSTEM RISER

NO SCALE



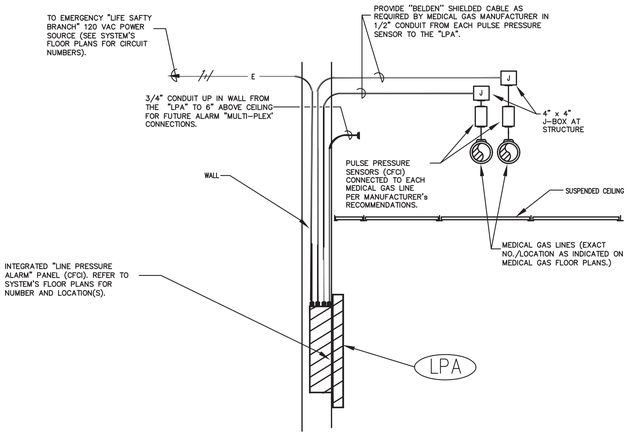
DETAIL OF TYPICAL HARD-WIRED CONNECTION

NO SCALE



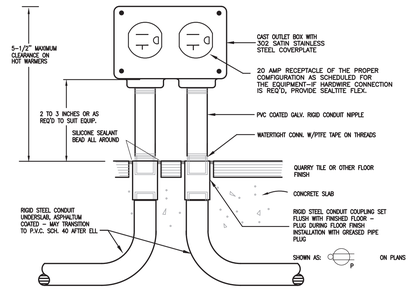
DETAIL OF FLOOR OUTLET COUPLING TO PEDESTAL FLEX STUB-UP

NO SCALE



TYPICAL MEDICAL GAS / LINE PRESSUE ALARM CONNECTION DETAIL

NO SCALE



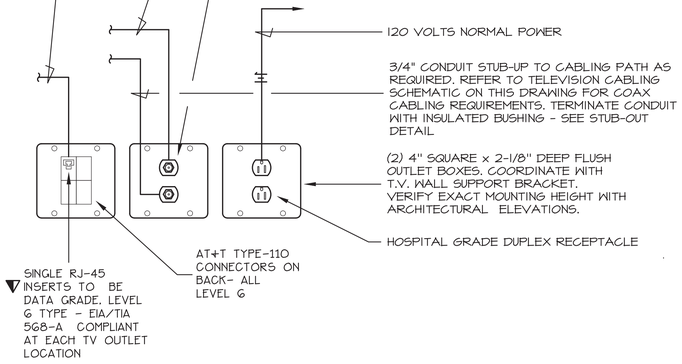
PEDESTAL TYPE FLOOR STUB-UP OUTLET DETAIL

NO SCALE

DATA CABLES TO BE CAT 6 DATA GRADE EIA/TIA 568A 4 PAIR 22 OR 24 AWG UNSHIELDED TWISTED PAIRS – PROVIDE ONE HOME RUN FROM EACH DATA JACK TO PATCH PANELS. ROUTE IN 1" CONDUIT WHERE NOT RAN IN CABLING PATH.

ADDITIONAL 3/4" CONDUIT STUB-UP WITH CABLING AS REQUIRED AT FOR CROSS-ROOM CONNECTION TO NURSE CALL PATIENT STATION (ONLY REQUIRED AT UNITS IN PATIENT ROOMS WITH NURSE CALL PATIENT STATION CONTROLS)

TYPICAL T.V. OUTLET SHALL BE BLONDER-TONGUE (OR EQUAL) WITH ANTENNA TAP-OFF AND REMOTE CONTROL OUTLET (FOR CONTROL BY NURSE CALL PILLOW SPEAKER WHERE APPLICABLE).



DETAIL OF TELEVISION OUTLET INSTALLATION

NO SCALE

Revisions:	Date:

CONSULTANT

Consultant:
CMTA CONSULTING ENGINEERS, INC
10411 MEETING STREET
PROSPECT, KY 40059

ARCHITECT/ENGINEER OF RECORD

A/E:
GUIDON DESIGN, INC
1221 N PENNSYLVANIA STREET
INDIANAPOLIS, IN 46202
(317) 800-6388

STAMP

STATE OF KANSAS
ROBERT ANTHONY HANS
21246
LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS	Phase: BID DOCUMENTS
Approved:	
Project Title: VA WICHITA - MED SURG BEDS FOR PATIENT PRIVACY	Project Number: 589-701
	Building Number: 1 & 1C
Location: WICHITA, KANSAS	Drawing Number: ES803
Issue Date: 05/22/2020	Checked: PDY
	Drawn: RAH

V:\Projects\VKMR19\8. Elec\1. Drawings\VKMR19_ES803.dwg-Work May 21, 2020-5:40pm - mlepping

VA FORM 08 - 6231