

STANDARD ABBREVIATIONS AMPERE. AMMETER AMPERE FRAME ABOVE FINISHED FLOOR AMPERES INTERRUPTING CAPACITY AMPERE TRIP AUTHORITY HAVING JURISDICTION **AUTOMATIC TRANSFER SWITCH** CONDUIT CENTER LIINE **CARD READER** COPPER **EXISTING EMPTY CONDUIT EMERGENCY** ELECTRIC WATER COOLER, GFI ELECTRIC WATER HEATER G, GND GROUND GROUND FAULT INTERRUPTER HAND HOLE **HORSEPOWER** HERTZ ISOLATED GROUND JUNCTION BOX KILOVOLT-AMPERES KILOWATTS LIGHTING CONTACTOR LIGHT EMITTING DIODE LTG LIGHTING PROVIDE FURNISH, INSTALL AND CONNECT RECPT RECEPTACLE SECURITY CAMERA OUTLET SOLID NEUTRAL SWITCH SWBD SWITCHBOARD COMBINATION TV AND RECEPT OUTLET UNDERGROUND UNLESS NOTED OTHERWISE UNIVERSIAL SERIAL BUS VOLT WIRELESS ACCESS POINT WEATHERTIGHT GFI TRANSFORMER

GENERAL ELECTRICAL NOTES

- THE CONTRACTOR BEARS A PRIME RESPONSIBILITY TO COMPLY WITH THE NATIONAL ELECTRICAL CODE EVEN WHEN THE PLANS OR SPECIFICATIONS DENOTE AN APPARENT VIOLATION. THIS SHOULD BE OBSERVED CAREFULLY AND CONTINUOUSLY, PARTICULARLY DURING ESTIMATING FOR PROPOSAL, AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- B. THE CONTRACTOR SHALL MAINTAIN, ON THE SITE, AN ADEQUATE ADMINISTRATIVE SPACE WHERE ONE COMPLETE SET OF PLANS AND SPECIFICATIONS SHALL BE KEPT FOR THE WORK OF ALL TRADES ON THE PROJECT. THESE PLANS AND SPECIFICATIONS SHALL BE IN ADDITION TO THE SETS USED BY THE INSTALLING ELECTRICIAN IN CARRYING OUT THEIR DAY-TO-DAY WORK ON THE PROJECT.
- THE PROPOSED LOCATION OF EVERY OUTLET, RACEWAY, OR ITEM OF EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT SHALL BE CHECKED AGAINST THE PLANS AND SPECIFICATIONS OF ALL THE OTHER TRADES AS WELL AS BY DAILY CONFERENCE WITH WORKMEN AND SUPERVISORS OF ALL OTHER TRADES TO THE EXTENT THAT ANY CONFLICTS OR UNCERTAINTIES ABOUT LOCATIONS ARE RESOLVED BEFORE WORK IS INSTALLED, PARTICULARLY WITH REGARD TO THE INTERACTION OF LIGHTING FIXTURES, AIR HANDLING OPENINGS, ACCESS DOORS, SPRINKLER HEADS, ETC.
- D. CEILING CONSTRUCTION INSTALLATION SHALL BE MADE IN ACCORD WITH REFLECTED CEILING PLANS AND/OR INSTRUCTIONS BY THE ARCHITECT'S REPRESENTATIVES ON THE SITE. MOVING OF ITEMS FROM LOCATIONS SHOWN, REROUTING, OR CHANGES TO ACCOMPLISH ANY WORK AS SHOWN ON PLANS OR SPECIFICATIONS IN ORDER TO ACCOMPLISH THIS COORDINATION SHALL NOT BE CAUSE FOR CLAIM FOR ADDITIONAL COMPENSATION FOR THE WORK.
- PARTICULAR CARE SHALL BE TAKEN TO LOCATE BOXES, SO THEY ARE NOT BACK-TO-BACK IN WALLS AND TO LOCATE OUTLETS OFF COLUMNS (UNLESS VITAL THEY BE THERE) OR OTHER PLACES WHERE THEY CONFLICT WITH STRUCTURAL STEEL, CONCRETE BEAMS, OR REINFORCING BARS.
- CONTRACTOR SHALL ALSO MAINTAIN AT THE SITE A COMPLETE SET OF ALL SHOP DRAWINGS, EQUIPMENT CUTS, AND MANUFACTURER'S WIRING DIAGRAMS AND INSTALLATION DATA. INSTALLING PERSONNEL SHALL STUDY THIS DATA BEFORE AND DURING INSTALLATION AND ROUGH-IN TO PREPARE FOR THE PROPER FIT AND FUNCTION UPON COMPLETION. IN GENERAL, MOUNTING HEIGHTS OF DEVICES ARE NOT NOTED ON THE PLAN DOCUMENTS. SCHEDULES AND NOTES SPECIFY "STANDARD" MOUNTING HEIGHTS FOR THESE ITEMS (SEE SPECS). STUDY CAREFULLY ELEVATIONS OF ALL WALLS AND CABINET WORK AS SHOWN ON ARCHITECTURAL DRAWINGS AND FIT OUTLETS TO SPACE AND TO AVOID CONFLICTS. OUTLETS SHALL ALWAYS BE LOCATED ABOVE. AND NOT IN. BACKSPLASHES. COORDINATE OUTLET LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS. ANY CONFLICT THAT CANNOT BE RESOLVED ON THE JOB SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER PRIOR TO ROUGH-IN.
- G. VOLTAGE DROP SHALL NOT EXCEED VA DESIGN MANUAL GUIDELINES; 3% MAXIMUM ON BRANCH CIRCUITS
- H. ALL RACEWAYS SHALL BE METAL 3/4" MINIMUM TRADE SIZE, UNLESS SPECIFICALLY NOTED OR APPROVED OTHERWISE. REFER TO SPECIFICATIONS FOR ALL OTHERS.
- NO MORE THAN ONE EXTENSION RING WILL BE ALLOWED PER JUNCTION BOX. ALL BOXES INSTALLED IN METAL STUD WALLS SHALL BE SUPPORTED FROM 2 ADJACENT STUDS WITH A MANUFACTURED SUPPORT BRACKET DESIGNED FOR THE PURPOSE.
- CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION, UPON SUCCESSFUL COMPLETION OF TESTS, CONFIRMATION SHALL BE SENT TO THE ENGINEER OF RECORD, STATING THE TESTS PERFORMED, THE RESULTS, AND THE DATE TESTS WERE SUCCESSFULLY COMPLETE. "LIFE SAFETY" EQUIPMENT AND SYSTEMS CONSIST OF THOSE AS SPECIFIED IN NFPA 101.
- \mid K. \mid ALL 20 AMP BRANCH CIRCUIT WIRE SIZING SHALL BE IN ACCORD WITH THE FOLLOWING TABLE: **ER OF CIRCUIT**

VOLTAGE 120/208	DISTANCE 0-50' 51'-100' 101'-150'	HOME RUN #12 #10 #8	REMAINDEF #12 #12 #10
277/480	0'-125'	#12	#12
	126'-220'	#10	#12
	221'-330	#8	#10

- ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING BUT NOT LIMITED TO, BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, AND TRANSFORMER LUGS, SHALL BE RATED FOR USE WITH 75 DEGREE CONDUCTORS SIZED IN ACCORDANCE WITH NEC TABLE 310-15.
- M. PENETRATIONS OF REQUIRED SMOKE TIGHT PARTITIONS SHALL BE SEALED USING U.L. LISTED METHODS. COORDINATION WITH THE OWNER AND ENGINEER SHALL BE MAINTAINED TO ENSURE THAT THIS SMOKE STOPPING IS ACCOMPLISHED.
- N. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER NFPA. COORDINATION WITH THE OWNER AND ENGINEER SHALL BE MAINTAINED TO ENSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE ONLY APPROVED ASSEMBLIES SUCH AS THE FOLLOWING:
- CONDUIT PENETRATIONS OF 1 & 2 HOUR GYPBOARD WALLS U.L. #WL1001 - CONDUIT PENETRATIONS OF 1 & 2 HOUR CONCRETE OR BLOCK WALLS - U.L. #CAJ1001 - CONDUIT PENETRATIONS OF 1 & 2 HOUR CONCRETE FLOORS - U.L. #CAJ1001
- \mid O. \mid IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY WITH THE OWNER AND ENGINEER TO INSURE THE INTEGRITY OF THE U.L. RATING IS MAINTAINED. BOXES OF 16 SQUARE INCHES OR LESS SHALL BE INSTALLED IN ACCORDANCE WITH U.L. "FIRE RESISTANCE RATINGS -ANSI/UL263 (BXUV) FOR WALL AND PARTITION ASSEMBLIES.
- \mid P. \mid ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED.
- Q. CONTRACTOR SHALL PROVIDE COMPOSITE COORDINATION PLANS, TO ENGINEERING, INDICATING ALL TRADES WORK AND AREAS OF CONFLICT WITH RESOLUTIONS.
- \mid R. \mid REFER TO THE EQUIPMENT MOUNTING DETAIL ON GI002 FOR EQUIPMENT AND DEVICE MOUNTING HEIGHTS. ALL HARDWARE, SWITCH PLATES, AND OUTLET PLATES WITH MATCHING FASTENERS TO USE ANTIMICROBIAL COPPER COATING (CUVERRO SHIELD) IN BASE BID, FOR A DEDUCT ALTERNATE 6 ALL ITEMS WILL USE 304
- ALL PANELBOARD FEEDERS TO BE NEW, SPLICES ARE NOT ALLOWED.
- IN ELECTRICAL AND IT/SYSTEMS ROOMS, PROVIDE AND INSTALL 3/4" TYPE X FIRE RETARDANT PLYWOOD BACKBOARD ON WALLS DESIGNATED FOR EQUIPMENT MOUNTING. PLYWOOD TO BE PAINTED WHITE EXCEPT RATING STAMP. INSTALL PLYWOOD WITH #12 GALVANIZED FLAT HEAD WOOD SCREWS INTO STUDS AT 16" OC,
- ALL WIRING DEVICES (TOGGLE SWITCHES, WALL MOUNTED OCCUPANCY SENSORS, RECEPTACLES, ETC.) CONNECTED TO EMERGENCY CIRCUITS SHALL BE RED IN COLOR.

ELECTRICAL PHASING PLAN

- . REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWING PHASING NOTES TO COORDINATE PHASING OF ELECTRICAL WORK RELATIVE TO THE WORK OF OTHER TRADES. ARCHITECTURAL
- DOCUMENTS ALSO PROVIDE THE GENERAL STRUCTURE FOR PHASING OF THE WORK. THE ELECTRICAL WORK REQUIRES PHASING SPECIFIC TO CERTAIN PARTS OF THE WORK. IN PARTICULAR IS THE PHASING FOR REROUTING AND REFEEDING FEEDERS TO FEED NEW EQUIPMENT. THIS WORK WILL REQUIRE CLOSE COORDINATION WITH THE VA AND OTHER TRADES AND REQUIRE POWER SHUTDOWNS TO
- REROUTE AND/OR INSTALL NEW FEEDERS. WORK TO RENOVATE MEDSURGE WARDS WILL REQUIRE WORK PRIMARILY ON THE SECOND FLOOR BUT ALSO WILL REQUIRE WORK IN THE BASEMENT, FIRST FLOOR, THIRD FLOOR AND IN THE ATTIC. INFECTION CONTROL AND TIMING OF THE WORK WILL BE CRUCIAL IN THESE AREAS. THE WORK MUST BE PLANNED SO
- THAT NORMAL OPERATION WILL MINIMIZED TO THE GREATEST EXTENT POSSIBLE. THE WORK WILL REQUIRE SHUT DOWN OF BOTH EMERGENCY AND NORMAL POWER FEEDERS THE DETAILS OF WHICH ARE SHOWN ON THE PLANS. BECAUSE OF THE CRITICAL NATURE OF THE OPERATION OF THIS
- FACILITY FINAL CONNECTIONS FOR EACH FEEDER WILL REQUIRE A SEPARATE SHUT DOWN OR SHUTDOWNS TO LIMIT THE AFFECT ON HOSPITAL OPERATIONS. THE WORK SHALL BE EXECUTED IN A WAY TO LIMIT THE DOWN TIME OF THE EXISTING FEEDERS AND THE
- PANELBOARDS THAT ARE STILL IN USE. THE CONTRACTOR SHALL MEET WITH THE VA PRIOR TO ANY SHUTDOWN OF POWER TO DISCUSS THE NECESSARY WORK AND ESTABLISH DURATIONS OF THE SHUTDOWNS. THE AFFECTED LOADS SHALL BE IDENTIFIED SO THAT THE VA CAN PROVIDE CONTINGENCIES FOR OPERATION AND NOTIFY STAFF. AFTER THE MEETING THE CONTRACTOR SHALL PREPARE A PLAN FOR
- APPROVAL BY THE VA BEFORE BEGINNING WORK. THE WORK SHALL BE DONE AT A TIME BEST SUITED TO THE OPERATION OF THE HOSPITAL THAT WOULD LIMIT THE AFFECT ON PATIENT CARE AND GENERAL OPERATIONS. THIS WILL REQUIRE WORK AT NIGHTS,
- WEEKENDS AND HOLIDAYS WHERE NECESSARY. . WORK WILL REQUIRE NEW FEEDERS AND CONDUIT BACK WITH EXISTING FEEDERS BACK TO SOURCE PRIOR
- TO ANY SHUT DOWN TO LIMIT AFFECT ON HOSPITAL.
- H_{c} PLAN TO HAVE A SHUTDOWN FOR EACH PANEL FEEDER TO BE REFED. SEE SHEET EE602 FOR NEW CONDUIT AND FEEDER DETAILS.
- THE CONTRACTOR SHALL HAVE MEETINGS WITH THE VA TO PLAN EACH SHUTDOWN SO THAT THE VA CAN PLAN CONTINGENCIES FOR THE OPERATIONS ON THE AFFECTED FLOORS.

CONDUIT COLOR CHART & NOTES

SYSTEM (APPLICATION)	COLOR
1. FIRE ALARM	RED
2. NURSE CALL	BLUE
3. ELECTRICAL	SILVER
4. CABLE	WHITE
5. ACCESS CONTROL/CAMERA SYSTEM/INTERCOM	GREEN

6. TELEPHONE/DATA

UL APPROVED, FACTORY POWDER-COAT PAINTED, COLORED RIGID METAL CONDUIT (RMC) AND UL APPROVED, FACTORY POLYMER PAINTED, COLORED ELECTRICAL METAL TUBING (EMT).

PURPLE

	LIGHT FIXTURE SCHEDULE								
TYPE	MANUFACTURER	MODEL	LAMPS # COLOR T	EMP.	NS WATTAG	E MOUNTIN	DESCRIPTION	REMARKS	
A01	HE WILLIAMS	AMD SERIES	1 3000	K 4400 lm	147 W	LAY-IN	2'x4' LED MULTI-PURPOSE FIXTURE. CONFIGURED WITH EXAM, READING, NURSE, AND AMBIENT LIGHTING. FINISH: MATTE WHITE ANTI-MICROBIAL POWDER COAT. PROVIDE CIRCUITING AND CONTROL PROVISIONS TO MATCH SWITCHING REQUIREMENTS.	BASIS OF DESIGN HE WILLIAMS, FIXTURE TO MATCH STATION'S STANDARD	
A02	HE WILLIAMS	LT SERIES	1 3000	K 5200 lm	37 W	LAY-IN	2'x4' LED VOLUMETRIC TROFFER. MINIMUM 22 GAUGE CRS, PAINT-AFTER-FAB COMPONENTS, HIGH REFLECTIVE POLYESTER POWDER COAT FINISH. FROSTED ACRYLIC, CURVED DIFFUSER AND LAMP COMPARTMENT AND ANGLED REFLECTOR.	KENNAL, ACUITY EXCEPTABLE ALTERNATE OR APPROVED EQUA	
A03	HE WILLIAMS	LT SERIES	1 4000	K 3900 lm	33 W	LAY-IN	2'x2' LED VOLUMETRIC TROFFER. MINIMUM 22 GAUGE CRS, PAINT-AFTER-FAB COMPONENTS, HIGH REFLECTIVE POLYESTER POWDER COAT FINISH. FROSTED ACRYLIC, CURVED DIFFUSER AND LAMP COMPARTMENT AND ANGLED REFLECTOR.	KENNAL, ACUITY EXCEPTABLE ALTERNATE OR APPROVED EQUA	
A04	HE WILLIAMS	WMAUD SERIES	2 4000	K 1500 lm	40 W	WALL	2' WALL MOUNTED VANITY LIGHT,DISTRIBUTION: DOWNLIGHT, .125" FROST ACRYLIC LENS, FINISH: ANTI-MICROBIAL WHITE.	KENNAL, ACUITY EXCEPTABLE ALTERNATE OR APPROVED EQUA	
A05	HEALTHCARE LIGHITNG	HNL600 SERIES	1 4000	K 62 lm	2 W	WALL	LOW-PROFILE RECESSED LED PATHFINDER NIGHT LIGHT. MOUNT AT 18" AFF UON. FINISH: ANTI-MICROBIAL WHITE. PROVIDE INTEGRAL PHOTOCELL CONTROL.	KENNAL, HE WILLIAMS EXCEPTABLE ALTERNATE OR APPROVED EQUAL	
A06	HE WILLIAMS	6DR SERIES	1 3500	K 1988 lm	19 W	RECESSED	6" RECESSED SHOWER DOWNLIGHT: WIDE DISTRIBUTION WITH 55 DEGREE CUTOFF, WET LOCATION LISTED. FLUSH LENS. DIE-CAST ALUMINUM TRIM.	KENNAL, ACUITY EXCEPTABLE ALTERNATE OR APPROVED EQUA	
A07	INDY LIGHTING	L4 SERIES	1 3000	K 1300 lm	17 W	RECESSED	4" RECESSED DIMMABLE DOWNLIGHT: WHITE FINISH WITH CLEAR SEMI-SPECULAR PARABOLIC REFLECTOR, MEDIUM DISTRIBUTION	KENNAL, ACUITY EXCEPTABLE ALTERNATE OR APPROVED EQUA	
A08	INDY LIGHTING	L6 SERIES	1 4000	K 2300 lm	29 W	RECESSED	6" RECESSED DIMMABLE DOWNLIGHT: WHITE FINISH WITH CLEAR SEMI-SPECULAR PARABOLIC REFLECTOR, MEDIUM DISTRIBUTION	KENNAL, ACUITY EXCEPTABLE ALTERNATE OR APPROVED EQUA	
A09	HE WILLIAMS	75L SERIES	1 4000	K 3100 lm	31 W	SURFACE	4' LONG LED LENSED LED STRIP. CRS CONSTRUCTION. HIGH-GLOSS BAKED ENAMEL FINISH125" ACRYLIC LENS.	BASIS OF DESIGN HE WILLIAMS, FIXTURE TO MATCH STATION'S STANDARD	
A10	HE WILLIAMS	VWP SERIES	1 4000	K 6000 lm	160 W	WALL	DARK BRONZE VERTICAL WALL PACK, TYPE 3 DISTRIBUTION, TEMPERED GLASS REFLECTOR, WITH BUILT IN BUTTON PHOTOCELL.	KENNAL, ACUITY EXCEPTABLE ALTERNATE OR APPROVED EQUA	
X01	HE WILLIAMS	EXIT/CA SERIES	1 4000	K 149 lm	1 W	UNIV	DIE-CAST ALUMINUM LED EXIT LIGHT. WHITE FINISH, STENCIL FACE, RED LETTERS. MINIMUM 6" HIGH VL 924, DIFFUSED TYPE LENS.	BASIS OF DESIGN HE WILLIAMS, FIXTURE TO MATCH STATION'S STANDARD	

- A. CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL AS SPECIFIED IN ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF CATALOG NUMBER GIVEN. CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL BY REVIEWING ARCH. FINISH SCHEDULES AND
- ORDER NECESSARY KIT IF SO NEEDED. B. FIXTURES SHALL MEET LUMINAIRE DISCONNECT REQUIREMENTS AS SPECIFIED IN NEC 410.130(G) C. FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE OR AS APPROVED BY THE COR.
- D. ALL LED DRIVERS AND CONTROL DEVICES SHALL BE COMPATIBLE AND ALL LED FIXTURES SHALL COME EQUIPPED FOR DIMMING AND LINE VOLTAGE OPERATION. E. LIGHT FIXTURE MUST BE EQUIPPED FOR UNIVERSAL VOLTAGE OPERATION (120 OR 277 VOLT) OR VOLTAGE MUST BE MATCHED TO EACH FIXTURE ACCORDING TO

formerly HARRELL, SALTRICK & HOPPER, PC

CONSULTANTS: Description 8701 RED OAK BLVD, SUITE 500 CHARLOTTE, NC 28217 ASSOCIATES PHONE: 704.522.0495

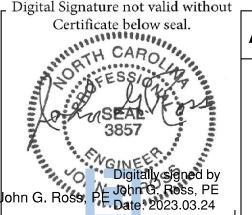
consulting engineers

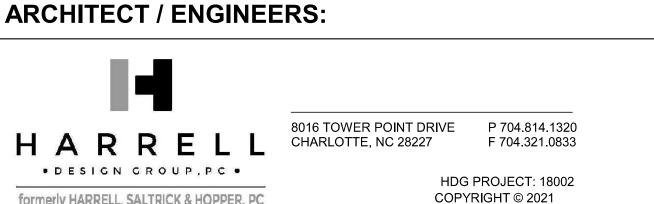
WWW.BRITTPETERS.COM

eignth inch = one foot

4 8 16

BIM 360://18002 Fayetteville AR Renovate Med Surge Ward/18002 ELEC 2020.rvt





GENERAL NOTES AND RENOVATE MED SURGE WARDS **SCHEDULES** VETERANS HEALTHCARE SYSTEM BID DOCUMENTS OF THE OZARKS

FULLY SPRINKLERED

Engineering Service VETERANS HEALTH CARE SYSTEM OF THE **OZARKS VA** U.S. Department of Veterans Affairs

Building Number:

Checked:

LEH

MARCH 24, 2024