

**SYMBOL SCHEDULE**

LIGHTING SYMBOLS		
CEILING	WALL	DESCRIPTION
		FLUORESCENT OR LED LIGHT LUMINAIRE. LETTER DENOTES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
		FLUORESCENT STRIP LIGHT LUMINAIRE. LETTER DENOTES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
		FLUORESCENT OR LED LIGHT LUMINAIRE. LETTER DENOTES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
POWER SYMBOLS		
FLOOR	WALL	CEIL.
DUPLIX OUTLET.		
BRANCH CIRCUIT PANELBOARD.		
MOTOR, SINGLE-PHASE.		
TRANSFORMER		
SYSTEM DEVICES		
FIRE ALARM CONTROL PANEL		
FIRE ALARM PULL STATION.		
SMOKE DETECTOR.		
FIRE ALARM HORN/STROBE ANNUNCIATION UNIT.		

WIRING SYMBOLS	
	DESCRIPTION
	WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL.
	WIRING (IN CONDUIT) RUN EXPOSED.
	TELECOMMUNICATION RACEWAY.
	WIRING UNDERGROUND (SITE WORK).
	HOMERUN TO PANELBOARD WITH NOMENCLATURE (LETTERS), CIRCUIT NUMBERS (NUMBERS), NUMBER OF CIRCUITS (NUMBER OF ARROWS), EACH CIRCUIT TO HAVE GROUND.
	THREE-WAY TOGGLE SWITCH. LETTER DENOTES FIXTURE CONTROLLED.
	SWITCH, MOTOR RATED.
	OCCUPANCY SENSOR SWITCH, DUAL TECHNOLOGY - INFRARED/ULTRASONIC
	CONDUIT TURNED UP.
	CONDUIT TURNED DOWN.
	CONDUIT STUBBED OUT.
	PULL BOX. NEMA CONFIGURATION AS NOTED.

REFERENCE SYMBOLS	
	DESCRIPTION
	SPECIFIC NOTE REFERENCE.
	FEEDER REFERENCE.
	REVISION REFERENCE.
	DETAIL REFERENCE: "A" DENOTES DETAIL "E1" DENOTES SHEET NUMBER WHERE DETAIL IS TAKEN "E2" DENOTES SHEET NUMBER WHERE DETAIL IS DRAWN
ONE-LINE SYMBOLS	
	DESCRIPTION
	CIRCUIT BREAKER.
	DRY TYPE TRANSFORMER.
	PANELBOARD.

**FEEDER SCHEDULE**

TYPE THHN/THWN INSUL. COPPER CONDUCTOR AMPACITY BASED ON (75° TEMP. RATING) IN RIGID METAL CONDUIT  
 DRY INTERIOR LOCATIONS: RGS WITH THREADED FITTINGS UP TO 20' AFF. EMT WITH STEEL SET SCREW FITTINGS  
 WET EXTERIOR LOCATIONS: RGS WITH THREADED FERROUS CAST FITTINGS  
 UNDERGROUND INSTALLATIONS: SCHEDULE 40 PVC  
 FEEDER DESIGNATION (\_\_\_\_1/2 N) DENOTES 1/2 SIZE NEUTRAL

FEEDER DESIGNATION	3PH+G PHASE + GND. CONDUCTORS AND CONDUIT SIZE	FEEDER DESIGNATION	3PH+N+G PHASE + NEUTRAL + GND. CONDUCTORS AND CONDUIT SIZE
(20)	3#12+1#2 GND., 3/4"C	(20N)	4#12+1#2 GND., 3/4"C
(30)	3#10+1#2 GND., 3/4"C	(30N)	4#10+1#2 GND., 3/4"C
(50)	3#8+1#2 GND., 3/4"C	(50N)	4#8+1#2 GND., 3/4"C
(65)	3#6+1#2 GND., 1"C	(65N)	4#6+1#2 GND., 1"C
(85)	3#4+1#2 GND., 1 1/4"C	(85N)	4#4+1#2 GND., 1 1/4"C
(100)	3#3+1#2 GND., 1 1/4"C	(100N)	4#3+1#2 GND., 1 1/4"C
(115)	3#2+1#2 GND., 1 1/4"C	(115N)	4#2+1#2 GND., 1 1/4"C
(130)	3#1+1#2 GND., 1 1/2"C	(130N)	4#1+1#2 GND., 1 1/2"C
(150)	3#1/0+1#2 GND., 1 1/2"C	(150N)	4#1/0+1#2 GND., 2"C
(175)	3#2/0+1#2 GND., 2"C	(175N)	4#2/0+1#2 GND., 2"C
(200)	3#3/0+1#2 GND., 2"C	(200N)	4#3/0+1#2 GND., 2"C
(230)	3#4/0+1#2 GND., 2"C	(230N)	4#4/0+1#2 GND., 2 1/2"C
(255)	3#250+1#4 GND., 2 1/2"C	(255N)	4#250+1#4 GND., 2 1/2"C
(285)	3#300+1#4 GND., 2 1/2"C	(285N)	4#300+1#4 GND., 3"C
(310)	3#350+1#3 GND., 3"C	(310N)	4#350+1#3 GND., 3"C
(335)	3#400+1#3 GND., 3"C	(335N)	4#400+1#3 GND., 3"C
(380)	3#500+1#3 GND., 3"C	(380N)	4#500+1#3 GND., 3 1/2"C
(400)	2 SETS(3#3/0+1#3 GND., 2"C)	(400N)	2 SETS(4#3/0+1#3 GND., 2"C)
(420)	3#600+1#2 GND., 3 1/2"C	(420N)	4#600+1#2 GND., 4"C

**FIXTURE SCHEDULE**

TAG	NOTES	DESCRIPTION	CATALOG	VOLTAGE	LAMP
F1	1	6" SEALED/MEDICAL LED DOWNLIGHT, FLUSH LENS, SPECULAR CLEAR	COOPER FAIL-SAFE FFLD6A SERIES	120	LED 3000 LUMENS 3500K
F2	2	2'X2' 2-LAMP FLUOR., LENSED, SPECIFICATION DEEP TRIGGER, ALUMINUM FLANGE TRIM WITH SUPPORTING SWING GATES	COOPER METALUX 2GC SERIES	UNV	17W T8 F32 3500K 75CRI
F3	2	4' 2-LAMP FLUOR. SURFACE MOUNT STRIP WITH WIRE GUARD	COOPER METALUX SSF SERIES	UNV	32W T8 F32 3500K 75CRI
F4	3,4	LED TRAPEZOID, TYPE II DISTRIBUTION, GREY FINISH, BUTTON TYPE PHOTOCONTROL, TAMPER RESISTANT FASTENERS	COOPER METALUX-EDISON IST SERIES	120	51W (2) 21 LED LIGHTBARS

**LUMINAIRE SCHEDULE NOTES:**

- UL LISTED FOR SHOWER LOCATIONS, IP66 RATED.
- UNIVERSAL OR ADVANCE BALLAST ONLY: ELECTRONIC, PARALLEL, >90 POWER FACTOR, REDUCED HARMONICS <.10.
- EMERGENCY LED COLD TEMPERATURE POWER PACK (UL924 LISTED) -20°C/-4°F STANDARD WITH BACK BOX MATCHING HOUSING FINISH.
- COORDINATE BUILDING PENETRATIONS WITH EXTERIOR BUILDING SURFACE MATERIALS. PROVIDE MANUFACTURER LISTED PENETRATION SEALS. ALL PENETRATIONS SHALL BE MADE WATERPROOF. COORDINATE WITH OTHER DIVISIONS (1-15) REQUIREMENTS.
- MOUNT @ 9' AFF.

**ABBREVIATIONS**

<b>A</b>	AMPERE(S)	<b>E</b>	EMERGENCY	<b>J</b>	JUNCTION BOX	<b>O</b>	ON CENTER	<b>T</b>	TELEPHONE
<b>AC</b>	ALTERNATING CURRENT	<b>E.C.</b>	EMPTY CONDUIT	<b>KB</b>	BACKBOARD	<b>OL</b>	OVERLOAD CONTACT	<b>TYP</b>	TYPICAL
<b>AC</b>	AIR COMPRESSOR	<b>EF</b>	EXHAUST FAN	<b>K</b>	THOUSAND CIRCULAR MILS	<b>P</b>	POLE	<b>UG</b>	UNDERGROUND
<b>A/C</b>	AIR CONDITIONING	<b>EL</b>	ELEVATION	<b>KVA</b>	KILOVOLT-AMPERES	<b>P</b>	PUMP	<b>U.L.</b>	UNDERWRITER'S LABORATORIES
<b>AF</b>	AMPERE FRAME	<b>EM</b>	EMERGENCY	<b>KW</b>	KILOWATT	<b>PNL</b>	PHASE	<b>UNO</b>	UNLESS NOTED OTHERWISE
<b>AFB</b>	ABOVE FINISHED FLOOR	<b>EP</b>	EXPLOSION PROOF	<b>L</b>	POUNDS	<b>PR</b>	PANEL	<b>V</b>	VOLTS
<b>AFG</b>	ABOVE FINISHED GRADE	<b>ESD</b>	EMERGENCY SHUTDOWN	<b>LGT.</b>	LIGHTING	<b>PSMH</b>	PAIR	<b>VAC</b>	VOLTAGE, ALTERNATING CURRENT
<b>AIC</b>	AMPERES INTERRUPTING CAPACITY	<b>ESW</b>	ELECTRIC WATER COOLER	<b>LV</b>	LOW VOLTAGE	<b>PVC</b>	PULSE START METAL HALIDE	<b>VDC</b>	VOLTAGE, DIRECT CURRENT
<b>ALUM</b>	ALUMINUM	<b>EXIST</b>	EXISTING	<b>M</b>	MOUNTING HEIGHT	<b>PWR</b>	POTENTIAL TRANSFORMER	<b>W</b>	WATTS, WIRE, WIDTH
<b>AT</b>	AMPERE TRIP	<b>FCU</b>	FAN COIL UNIT	<b>MCB</b>	MAIN CIRCUIT BREAKER	<b>REC</b>	POLYVINYL CHLORIDE	<b>WP</b>	WEATHERPROOF
<b>AWG</b>	AMERICAN WIRE GAGE	<b>FF</b>	FINISHED FLOOR	<b>MCC</b>	MOTOR CONTROL CENTER	<b>REQ'D.</b>	POWER	<b>X</b>	TRANSFORMER
<b>CB</b>	CIRCUIT BREAKER	<b>FLA</b>	FULL LOAD AMPS	<b>MH</b>	MOUNTING HEIGHT	<b>R</b>	RECEPTACLE	<b>XFMR</b>	TRANSFORMER
<b>CB</b>	CIRCUIT BREAKER	<b>FLUOR</b>	FLUORESCENT	<b>MISC</b>	MISCELLANEOUS	<b>RM</b>	REQUIRED		
<b>CKT</b>	CIRCUIT	<b>FREQ.</b>	FREQUENCY	<b>MLO</b>	MAIN LUGS ONLY	<b>RT</b>	RIGID GALVANIZED STEEL		
<b>CL</b>	CLASS	<b>FT.</b>	FOOT; FEET	<b>MTD</b>	MOUNTED	<b>SEC</b>	ROOM		
<b>COND</b>	CONDUCTOR(S)	<b>GALV</b>	GALVANIZED	<b>MH</b>	MOUNTING HEIGHT	<b>SEC</b>	ROOM RAINIGHT		
<b>CU</b>	CURRENT TRANSFORMER	<b>GFI</b>	GROUND FAULT INTERRUPTER	<b>N</b>	NATIONAL ELECTRICAL CODE	<b>SF</b>	RAINTIGHT		
<b>CT</b>	COPPER	<b>HP</b>	HORSEPOWER	<b>N.C.</b>	NORMALLY CLOSED	<b>SHT.</b>	RECEIPTACLE		
<b>COMM</b>	COMMUNICATION	<b>HPS</b>	HIGH PRESSURE SODIUM	<b>N.O.</b>	NORMALLY OPEN	<b>SMK</b>	REQUIRED		
<b>DC</b>	DIRECT CURRENT	<b>HV</b>	HIGH VOLTAGE	<b>NIC</b>	NOT IN CONTRACT	<b>SPC</b>	RIGID GALVANIZED STEEL		
<b>DET.</b>	DETECTOR	<b>HZ</b>	HERTZ	<b>NF</b>	NONFUSED	<b>SUPVR</b>	ROOM		
		<b>INCAND</b>	INCANDESCENT	<b>NL</b>	NIGHT LIGHT	<b>SWBD</b>	RAINTIGHT		
				<b>NTS</b>	NOT TO SCALE				

**GENERAL NOTES:**

- ALL ELECTRICAL EQUIPMENT AND THE RESULTANT INSTALLATION OF SUCH EQUIPMENT, DEVICES, ETC., SHALL BE IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE, AND ALL APPLICABLE STATE AND FEDERAL CODES, AND THE 2011 NATIONAL ELECTRICAL SAFETY CODE.
- CONTRACTOR SHALL TAKE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL DIMENSIONS AND LOCATIONS OF EXISTING, RELOCATED, AND NEW EQUIPMENT, AND SHALL BE RESPONSIBLE FOR COORDINATION WITH THE WORK OF OTHER TRADES NECESSARY TO THE PROJECT.
- THESE DRAWINGS ARE INTENDED TO OUTLINE THE SCOPE OF WORK REQUIRED TO PROVIDE A COMPLETE AND OPERABLE PROJECT CONCLUSION. ALL MISCELLANEOUS COMPONENTS, PARTS, FASTENERS, SPLICES, AND OTHER INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETED PROJECT SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY NOTED.
- CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY CONFLICTS ARISING FROM DISCOVERED CONDITIONS AT ANY PHASE OF THE PROJECT.
- CONTRACTOR SHALL NOTIFY OWNER AT LEAST 72 HOURS IN ADVANCE OF ANY WORK WHICH SHALL, OR REASONABLY COULD, RESULT IN MINOR OUTAGE OF POWER OR COMMUNICATIONS (1-2 HOURS). ANY POWER OUTAGE ANTICIPATED TO LAST MORE THAN 2 HOURS SHALL BE SCHEDULED 2 WEEKS IN ADVANCE. PROVIDE TEMPORARY POWER TO ALL CRITICAL PUMP STATION COMPONENTS FOR THE DURATION OF THE POWER OUTAGE. CONTRACTOR SHALL AT HIS EXPENSE PROVIDE TEMPORARY SERVICE, PANELBOARDS, POWER CORDS, ETC. AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR IS TO TURN OVER ALL ELECTRICAL EQUIPMENT SHOWN TO BE DEMOLISHED TO OWNER.
- CONTRACTOR SHALL KEEP A CURRENT SET OF AS-INSTALLED DRAWINGS DOCUMENTING FIELD MODIFICATIONS, CHANGES, EXACT SUBSURFACE UTILITY ROUTINGS, ETC. TO BE TURNED OVER TO OWNER UPON PROJECT COMPLETION.
- ALL INTERIOR/EXTERIOR EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID FOR THIS PROJECT. CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH THE SITE AND EXISTING CONDITIONS WILL NOT BE ALLOWED AS JUSTIFICATION FOR ADDITIONAL COMPENSATION AT A LATER DATE.

FOR CONSTRUCTION

Revisions	Date

Consultants:

**BKI BURK-KLEINPETER, INC.**  
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS  
 4176 CANAL STREET, NEW ORLEANS, LA 70119-5994  
 PHONE (504)486-5901 FAX (504)488-1714

Seal:

A/E:

**ROYAL ENGINEERS & CONSULTANTS, LLC**  
 4298 ELYSIAN FIELDS AVENUE  
 NEW ORLEANS, LOUISIANA 70122  
 www.royalengineering.net

Approved:

PROGRAM MANAGER, PROJECTS \_\_\_\_\_  
 SAFETY/INDUSTRIAL HYGIENE \_\_\_\_\_  
 HEALTH SYSTEM SPECIALIST \_\_\_\_\_  
 MAINTENANCE SUPERVISOR \_\_\_\_\_  
 MAINTENANCE FOREMAN \_\_\_\_\_  
 MAINTENANCE FOREMAN \_\_\_\_\_

Drawing Title

**SCHEDULES, ABBREVIATIONS, AND NOTES**

Approved: Service Engineer \_\_\_\_\_  
 Approved: Service Director \_\_\_\_\_

Project Title

**VA Gulf Coast Decontamination Unit**

Date: 07/16/2015  
 Project No.: 520-13-136  
 Building Number: XX  
 Checked: P.H.  
 Drawn: C.V.  
 Drawing No.: **E100**  
 Location: VAMC BILOXI, MS  
 Dwg. of: \_\_\_\_\_

Office of Facilities

Department of Veterans Affairs