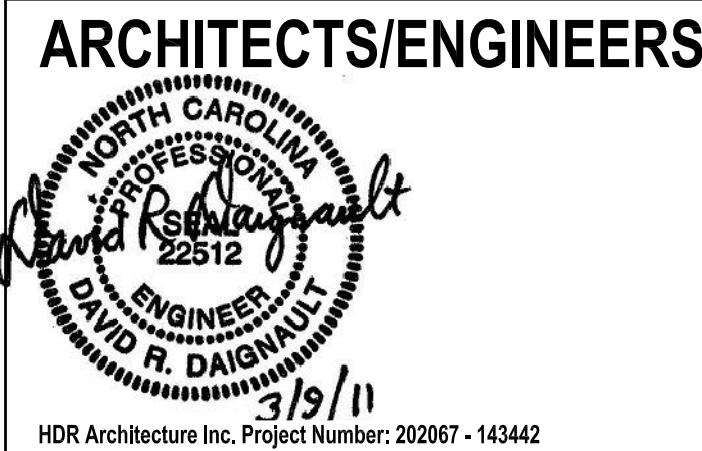


PROJECT TEAM

**MECHANICAL/ELECTRICAL/
PLUMBING/ FIRE PROTECTION :**
Charlotte Engineers
5838 Monroe Road, Suite 100.
Charlotte, NC 28212
www.charlotteengineers.com
704-531-3000



SCHEDULES AND DETAILS

Approved : Project Director

Project Title
W.G. (Bill) Hefner Veterans Affairs Medical
Center

**MENTAL HEALTH
INPATIENT (PHASE II) PROJECT**

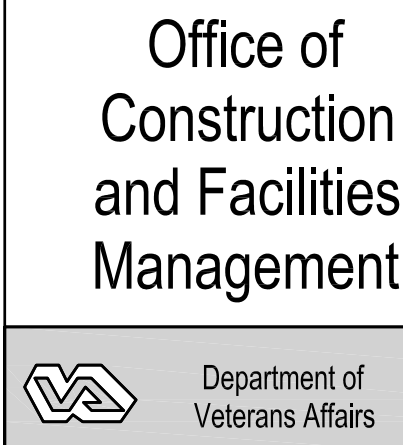
Location
Department of Veterans Affairs
1601 Brenner Ave. Salisbury, NC 2814

Drawn

12

AL

E--001



SYMBOL - NOTIFIER PART #

[FACP] = #NFS-640
REV. F-69B 03.00.00
NCM = 3.030.003 BOOT
03.000.002

QUAD INTELLIGENT AUDIO TRANSPONDER –
#XPQ WITH #A2S AUDIO AMPLIFIER AND
#PSL SIGNALING LINE INTERFACE AND
#ABD AUDIO INPUT BOARD.

AUDIO VOICE LINK (TO STORE VOICES) –
#AVL (WHEELCOCK#)

FIBER OPTIC REPEATER – #NCM-F

[PARK] = #LCD-80

[I] = #NBG-12LK

[E] = #7E-W (WHEELCOCK #)

[SS] = #FSP-851

[DS] = #FSD-751RP

[RL] = #RTS-451

[TL] = #TST-751

NOTE: ALL FIRE ALARM APPLIANCES AND DEVICES
SHALL BE SUBMITTED WITH SHOP DRAWINGS.

3RD FLOOR

2ND FLOOR

**EXISTING ADDRESSABLE
FIRE ALARM CONTROL
PANEL WITH BATTERY
BACKUP**

**CONNECTION TO
OR APPROVED OFF-SITE
MONITORING SYSTEM**

TO NEW SIGNAL DEVICES

TO NEW INITIATING DEVICES

NEW NURSE CALL CONTROL
PANEL LOCATED ON FLOORS
2 AND 3.

GENERAL DETAIL NOTES:

A. PROVIDE ALL REQUIRED CONDUIT, CONDUCTORS, TERMINATIONS, SOFTWARE, PROGRAMMING, POWER SUPPLIES, MODULES, ETC AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

B. COORDINATE WITH THE OWNER'S ELECTRONICS DEPARTMENT

FIRE ALARM RISER DIAGRAM

ELEVATOR PROVISIONS

1. THE ELECTRICAL WORK ASSOCIATED WITH THE ELEVATOR SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND STANDARDS.
2. THIS CONTRACTOR SHALL COORDINATE THE ELEVATOR REQUIREMENTS WITH THE ELEVATOR INSTALLER. LOCATE HOISTWAY DETECTORS AS DIRECTED BY THE ELEVATOR INSTALLER.
3. THE HOISTWAY SHALL INCLUDE THE FOLLOWING:
 - AN INDICATION TYPE SMOKE DETECTOR AT THE TOP OF THE HOISTWAY.
 - A THERMAL DETECTOR AT THE TOP OF THE HOISTWAY (WHEN HOISTWAY IS SPRINKLED).
4. ACTIVATION OF ANY THERMAL DETECTOR IN THE HOISTWAY OR EQUIPMENT ROOM SHALL AUTOMATICALLY SIGNAL THE ELEVATOR CONTROLLER AND ACTIVATE A BELL RING TYPED UNIT ON THE ELEVATOR SERVICE CIRCUIT BREAKER. PRIOR TO THE APPLICATION OF POWER.
5. ACTIVATION OF ANY SMOKE DETECTOR IN THE HOISTWAY, EQUIPMENT ROOM OR ELEVATOR LOBBIES SHALL AUTOMATICALLY SIGNAL THE ELEVATOR CONTROLLER. THESE SIGNALS WILL BE USED TO PLACE THE ELEVATOR IN AN EMERGENCY MODE OF OPERATION.
6. ALL WIRING IN THE HOISTWAY AND EQUIPMENT ROOM SHALL BE RUN IN EMT (CONDUIT NO FLEX OR CABLE). ONLY WIRING ASSOCIATED WITH THE ELEVATOR EQUIPMENT IS ALLOWED. THE WIRING IN THE HOISTWAY AND EQUIPMENT ROOMS, ALL POWER WIRING CIRCUITS SHALL HAVE A CODE SIZED EQUIPMENT GROUNDING CONDUCTOR.
7. ALL WIRING BETWEEN THE ELEVATOR POWER AND CONTROLS/LIGHT FUSED SWITCHES AND THE ELEVATOR EQUIPMENT SHALL BE BY THIS CONTRACTOR.
8. ONLY ITEMS THAT PERTAIN TO THE OPERATION OF THE ELEVATOR ARE ALLOWED IN THE ELEVATOR HOISTWAY OR MACHINE ROOM.

Diagram illustrating the installation of a Combination TV/REC Outlet. The outlet is shown as a duplex receptacle (left) and a two-gang back box (right) mounted on a wall. A 3/4" empty conduit is stubbed to the ceiling above the outlet. The diagram includes the following labels and descriptions:

- DUPLEX RECEPTACLE**: Points to the standard electrical outlet on the left.
- OPENING FOR FUTURE ANTENNA CONNECTOR**: Points to the circular opening in the center of the two-gang back box.
- 3/4" EMPTY CONDUIT WITH PULL STRING STUBBED TO ABOVE ACCESSIBLE CORRIDOR CEILING**: Points to the conduit stub extending from the top of the back box.
- TWO GANG BACK BOX WITH COVER PLATE AS SHOWN**: Points to the right-hand section of the outlet assembly.
- BARrier**: Points to the vertical divider between the duplex receptacle and the two-gang back box.
- PROVIDE DEVICE LABEL**: Points to the label area on the left side of the duplex receptacle.
- PROVIDE TEMPORARY SNAP IN PLASTIC CLOSURE**: Points to the circular opening in the center of the two-gang back box.

PROVIDE ALL ELECTRICAL DISTRIBUTION EQUIPMENT WITH A NAMEPLATE AS FOLLOWS: (SWITCHBOARDS, PANELBOARDS, BUSWAYS, DISCONNECTS, AHU, FANS, FCU, ETC)

ENGRAVED THREE-LAYER LAMINATED PLASTIC WITH ADHESIVE BACKING

3/8" LETTERING
1/4" LETTERING (OPTIONAL)

NORMAL BRANCH
PANEL 'X'
208Y/120V
FED FROM PANEL 'MOP'
LOCATED IN F-WING 4TH FLR ELECTRICAL RM

BRANCH NAME OF EQUIPMENT OR LOAD
VOLTAGE
SOURCE
LOCATION

NORMAL: WHITE LETTERS ON BLACK BACKGROUND
LIFE SAFETY: WHITE LETTERS ON RED BACKGROUND
CRITICAL: WHITE LETTERS ON RED BACKGROUND
EQUIPMENT: WHITE LETTERS ON RED BACKGROUND

GENERAL DETAIL NOTES:

- PROVIDE SAMPLE FOR APPROVAL BY ENGINEER/OWNER.
- COORDINATE NAMING CONVENTION AND DESCRIPTIONS WITH OWNER.

NAMEPLATE DETAIL

NOT TO SCALE

2

LUMINAIRE SCHEDULE				BALLAST	LAMP	MANUFACTURER
TYPE	DESCRIPTION					
A221	2x2 TROFFER, RECESSED STEEL HOUSING, PAINT AFTER FABRICATION, SPRING LATCHES, FLAT ALUMINUM DOOR, MITERED CORNERS, 0.125" MINIMUM #12 ACRYLIC LENS		1	2-132-6TB 40W MAX	LITHONIA #25PB SERIES METALUX #G68 SERIES COLUMBIA #F518 SERIES DAY-BRITE #F9 SERIES WILLIAMS #F505 SERIES	
A421	2x4 TROFFER, RECESSED STEEL HOUSING, PAINT AFTER FABRICATION, SPRING LATCHES, FLAT ALUMINUM DOOR, MITERED CORNERS, 0.125" MINIMUM #12 ACRYLIC LENS		1	2-38W-T8 40W MAX	LITHONIA #25PB SERIES METALUX #G68 SERIES COLUMBIA #F518 SERIES DAY-BRITE #F9 SERIES WILLIAMS #F505 SERIES	
A431	2x4 TROFFER, RECESSED STEEL HOUSING, PAINT AFTER FABRICATION, SPRING LATCHES, FLAT ALUMINUM DOOR, MITERED CORNERS, 0.125" MINIMUM #12 ACRYLIC LENS		1	3-28-T8 62W MAX	LITHONIA #25PB SERIES METALUX #G68 SERIES COLUMBIA #F518 SERIES DAY-BRITE #F9 SERIES WILLIAMS #F505 SERIES	
A432	2x4 TROFFER, RECESSED STEEL HOUSING, PAINT AFTER FABRICATION, SPRING LATCHES, FLAT ALUMINUM DOOR, MITERED CORNERS, 0.125" MINIMUM #12 ACRYLIC LENS		2	3-28-T8 62W MAX	LITHONIA #25PB SERIES METALUX #G68 SERIES COLUMBIA #F518 SERIES DAY-BRITE #F9 SERIES WILLIAMS #F505 SERIES	
BLD1	42" TALL ROUND BOLLARD, CLEAR LENS, DOME TOP, SEAMLESS ALUMINUM TUBE, CAST ALUMINUM BASE, POWDER COAT DARK GRAY FINISH.		1	1-F42CF 45W MAX	MCGRAW-EDISON #FBL SERIES KIM #F801 SERIES LSI #BYRD SERIES	
DR4	48" DIAMETER, RECESSED DIRECT FLUORESCENT LUMINAIRE, FROSTED CONCAVE LENS, SPUN STEEL TRIM RING AND DOOR FRAME, POWDERCOAT FINISH.		2	4-28W-CF 80W MAX	Focal POINT #F5D PRUDENTIAL #P940 OR APPROVED EQUIVALENT	
D62	6" DIAMETER, HORIZONTAL LAMP DOWNLIGHT, CLEAR ALUMINUM REFLECTOR WITH INTEGRAL TRIM RING.		1	2-26W-CF 54W MAX	PRESS-CLITE #FCTDBHB LITHONIA #LF6 SERIES OR APPROVED EQUIVALENT	
E5	EXIT SIGN SINGLE OR DOUBLE FACE AS SHOWN, CEILING OR WALL MOUNTED, LED EDGE-LIT, UNIVERSAL, KNOCKOUT, DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. EXTRUDED ALUMINUM HOUSING.		-	LED 5 WATTS	MAXILUME #ELX-602 OR APPROVED EQUIVALENT	
E6	EXIT SIGN SINGLE OR DOUBLE FACE AS SHOWN, CEILING MOUNTED, RED DIFFUSER PANEL, UNIVERSAL, KNOCKOUT, DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. PROVIDE DIECAST ALUMINUM HOUSING WITH BLACK TRIM AND BRUSHED ALUMINUM FACE.		-	LED 5 WATTS	EMERG-LITE PRECEPTOR SERIES HUBBELL #CDP9AL-9 SERIES OR APPROVED EQUIVALENT	
H21	4" FLUORESCENT STRIP, STEEL HOUSING, WHITE BAKED ENAMEL FINISH, WIRE GUARD.		1	2-28W-T8 40W MAX	LITHONIA #C SERIES HUBBELL #C5 SERIES METALUX #F55 SERIES	
SH1	9" RECESSED DOWNSHOWER LIGHT, CAST ALUMINUM DOOR FRAME WITH REGRESSED, PRISMATIC POLYCARBONATE LENS, WHITE FINISH, TAMPER-PROOF SCREWS, LISTED FOR DAMP LOCATION.		-	1-42W-CF 45W MAX	FAILSAFE #FRR	
S431	2x4 TROFFER, VANDAL RESISTANT, RECESSED STEEL HOUSING, PAINT AFTER FABRICATION, SPRING LATCHES, STEEL DOOR WITH MITERED CORNERS, SECURED WITH STAINLESS STEEL TAMPER-RESISTANT TORX SCREWS. LENS SHALL BE 0.250" CLEAR POLYCARBONATE LAMINATED T00.125 A12 PATTERN ACRYLIC OVERLAY.		1	1-38W-T8 62W MAX	LITHONIA #2VRT	
S221	2x2 TROFFER, VANDAL RESISTANT, RECESSED STEEL HOUSING, PAINT AFTER FABRICATION, SPRING LATCHES, STEEL DOOR WITH MITERED CORNERS, SECURED WITH STAINLESS STEEL TAMPER-RESISTANT TORX SCREWS. LENS SHALL BE 0.250" CLEAR POLYCARBONATE LAMINATED T00.125 A12 PATTERN ACRYLIC OVERLAY.		1	2-1228W-T8 40W MAX	LITHONIA #2VRT	
SD62	6" HORIZONTAL DOWNLIGHT, CLEAR ALUMINUM REFLECTOR WITH VANDAL-RESISTANT LENS.		1	2-26W-CF 54W MAX	LITHONIA #LF6 PRESCILLITE #CFR	
UC2	24" UNDER SHELF/CABINET LINEAR LIGHTING FIXTURE, DIE-FORMED 20 GAUGE STEEL 1-9/16"x5-7/16" HOUSING, SOLID FRONT, WHITE, PAINT AFTER FABRICATION, CLEAR PRISMATIC ACRYLIC LENS, RUBBER SWITCH.		1	1-F17-T8 17W MAX	ALCOXO #FS317 OR APPROVED EQUIVALENT	
WR42	8" X 48" FLUORESCENT WRAP AROUND, DIE-FORMED STEEL HOUSING, POST-PAINTED WHITE POWDER COAT FINISH, 0.130" THICK POLYCARBONATE LENS.		1	2-28W-T8 40W MAX	LITHONIA #FW SERIES HUBBELL #F55 SERIES METALUX #F55 SERIES	
W421	48" WALL MOUNTED FLUORESCENT UPDOWN LIGHT, MOUNTED 6" ABOVE THE MIRROR OR AS NOTED. ACRYLIC PRISMATIC DIFFUSER, WHITE FINISH		1	2-28W-T8 40W MAX	METALUX #BU SERIES OR APPROVED EQUIVALENT	
LUMINAIRE SCHEDULE NOTES:						
1	COORDINATE WITH ARCHITECTURAL DRAWINGS (REFLECTED CEILING PLANS AND ELEVATIONS) FOR EXACT CEILING TYPE, LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS.					
2	ALL LUMINAIRE SUBMITTALS SHALL INCLUDE LAMP AND BALLAST CUT/DATA SHEETS.					
3	ALL FLUORESCENT LUMINAIRES WITH DOUBLE-ENDED LAMPS AND/OR THOSE SERVED FROM A MULTIMIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A DISCONNECTING MEANS, PER NEC ARTICLE 410.73.G.					
4	ALL LAMPS SHALL BE LEED COMPLIANT, ENERGY-SAVING TYPE.					
5	WHERE LUMINAIRES HAVE TWO BALLASTS, SWITCH INBOARD AND OUTBOARD LAMPS SEPARATELY.					
6	ALL T8 LAMPS SHALL BE 4100K.					
7	ALL CFL LAMPS SHALL BE 3000K.					
8	BALLAST CONFIGURATION NEEDS TO BE COMPATIBLE WITH LUMINAIRE CONTROLS AS SHOWN ON PLANS AND ELSE WHERE.					
9	BALLAST SHALL BE COMPATIBLE WITH BRANCH CIRCUIT VOLTAGE. COORDINATE WITH PLANS.					

IONIZATION TYPE
TOP OF SHAFT

RATE-OF-RISE
THERMAL DETECTOR
TOP OF SHAFT

2ND AND UPPER LEVELS
ELEVATOR LOBBY
(PHOTO-ELECTRIC TYPE)

EXISTING 1ST LEVEL
ELEVATOR LOBBY
(PHOTO-ELECTRIC TYPE)

EXISTING ELEVATOR EQUIPMENT
ROOM, IONIZATION TYPE

ZONE

ZONE

ZONE

CEILING

FOR WALL MOUNTED UNITS:
12", UNLESS CEILING IS HIGHER
THAN 12'-0", THEN 24" ABOVE DOOR.

EXIT

ALIGN WHERE POSSIBLE

FIRE ALARM DEVICES

TV OUTLET OR CLOCK OUTLET

WALL MOUNTED TELEPHONE

LIGHT SWITCH OR DIMMER

48"

42"

16"

FLOOR

RECEPTACLE

TELEPHONE OR VOICE DATA OUTLET

84"

2" TO BOTTOM OF DEVICE

TOP OF COUNTER OR BACKSPLASH

80" ABOVE FLOOR TO BOTTOM OF DEVICE
NOT TO EXCEED 90" TO BOTTOM OF COLUMNS

44"

GENERAL DETAIL NOTES:

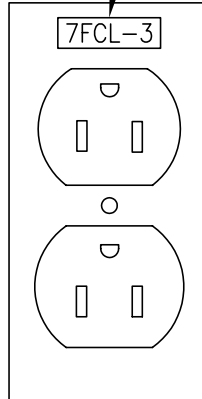
- PARTICULAR ATTENTION SHALL BE GIVEN TO THE ALIGNMENT OF DEVICES. WHEREVER DEVICES, ON THIS SHEET OR OTHER SHEETS, ARE SHOWN AT GIVEN LOCATION WITH DIFFERENT MOUNTING HEIGHTS THEY SHALL BE ALIGNED VERTICALLY. IF THEY ARE SHOWN AT THE SAME MOUNTING HEIGHT THEY SHALL BE ALIGNED HORIZONTALLY. REFER TO THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL DIMENSIONS ARE TO THE CENTER LINE OF DEVICE UNLESS INDICATED OTHERWISE.
- COUNTING HEIGHTS SHOWN HERE ARE TYPICAL. PRIOR TO ROUGH-IN, COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS. IF A CONFLICT OCCURS, REQUEST CLARIFICATION FROM ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.

MOUNTING HEIGHTS OF DEVICES

NOT TO SCALE

4

PROVIDE ALL COLORED DEVICES WITH A SELF-ADHESIVE METALLIC LABEL WITH BLACK LETTERING INDICATING PANEL AND CIRCUIT NUMBER SERVING THE DEVICE. FOR NORMAL BRANCH CIRCUITS THE LABEL SHALL BE SILVER COLORED, FOR ALL OTHER BRANCH CIRCUITS THE LABELS SHALL BE RED COLORED. 1/8" MINIMUM LETTERING HEIGHT.



GENERAL DETAIL NOTES:

A. COORDINATE LABELING WITH OWNER PRIOR TO INSTALLATION.

DEVICE LABELING	NOT TO SCALE	1
-----------------	--------------	---