ELECTRICAL ABBREVIATIONS

1P SINGLE POLE
4W FOUR-WIRE

A/C UNIT AIR CONDITIONING UNIT
A/E ARCHITECT/ENGINEER
AAP ALARM ANNUNCIATOR PANEL
AC ALTERNATING CURRENT OR ARMORED CABLE
ADO AUTOMATIC DOOR OPENER
AF AMPERE FRAME OR AMP FUSE
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AH AMPERE HOUR
AHJ AUTHORITY HAVING JURISDICTION
AIC AMPERE INTERRUPTING CAPACITY
ALT ALTERNATE
AMP AMPERE
ARCH ARCHITECT
ASC AMPS SHORT CIRCUIT
AT AMPERE TRIP
ATS AUTOMATIC TRANSFER SWITCH
AUTO AUTOMATIC
AV AUDIO VISUAL

BIL BASIC INSULATION LEVEL
BLDG BUILDING
BRKR BREAKER
BYP BY PASS

C CONDUIT
CAB CABINET
CATV COMMUNITY ANTENNA TELEVISION
CCTV CLOSED CIRCUIT TELEVISION
cd CANDELA
CF CONTRACTOR FURNISHED
CF/CI CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI CONTRACTOR FURNISHED/OWNER INSTALLED
CFE CONTRACTOR FURNISHED EQUIPMENT
CHW CHILLED WATER
CHWP CHILLED WATER PUMP
CKT CIRCUIT
CKT BRKR CIRCUIT BREAKER
CLG CEILING
CMU CONCRETE MASONRY UNIT
COAX COAX CABLE
COMM COMMUNICATION
CPT CONTROL POWER TRANSFORMER
CRI COLOR RENDERING INDEX
CT CURRENT TRANSFORMER
CTV CABLE TELEVISION
CU COPPER

DB DECIBEL OR DIRECT BURIAL
DEMO DEMOLITION
DIAG DIAGRAM
DISC DISCONNECT
DISTR DISTRIBUTION
DISTR PNL DISTRIBUTION PANEL
DN DOWN
DPDT DOUBLE POLE, DOUBLE THROW
DPST DOUBLE POLE, SINGLE THROW
DS DISCONNECT SWITCH
DWG DRAWING

EC EMPTY CONDUIT
EG EQUIPMENT GROUND
ELEC ELECTRIC OR ELECTRICAL
ELEV ELEVATOR
EMER EMERGENCY
EMI ELECTROMAGNETIC INTERFERENCE
EMT ELECTRICAL METALLIC TUBING
EPO EMERGENCY POWER OFF
EWC ELECTRIC WATER COOLER
EWH ELECTRIC WATER HEATER
EX EXISTING
EX/R EXISTING TO BE RELOCATED

FA FIRE ALARM
FAAP FIRE ALARM ANNUNCIATOR PANEL
FACP FIRE ALARM CONTROL PANEL
FC FOOTCANDLE
FI FILM ILLUMINATOR
FIXT FIXTURE
FLA FULL LOAD AMPS
FLEX FLEXIBLE METALLIC CONDUIT

FLUOR FLUORESCENT
FP FIRE PROTECTION
FT FEET OR FOOT
FU SW FUSED SWITCH
FVNR FULL VOLTAGE NON-REVERSING

G OR GND GROUND OR GENERATOR
GEN GENERATOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER
GTB GROUND TERMINAL BOX

HID HIGH INTENSITY DISCHARGE
HOA HAND-OFF-AUTOMATIC
HP HORSEPOWER
HT HEIGHT
HZ HERTZ

IESNA ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
INCAND INCANDESCENT
IR INFRARED
IWH INSTANTANEOUS WATER HEATER

J-BOX JUNCTION BOX

kV KILOVOLT
kVA KILOVOLT AMPERE
kVAR KILOVOLT AMPERE REACTIVE
kW KILOWATT

LED LIGHT EMITTING DIODE
LF LINEAR FEET (FOOT)
LM LUMEN
LP LIGHT POLE
LRA LOCKED ROTOR AMPS
LT LIGHT
LTG LIGHTING
LTNG LIGHTNING
LV LOW VOLTAGE

MATV MASTER ANTENNA TELEVISION SYSTEM
MAX MAXIMUM
MCA MINIMUM CIRCUIT AMPS
MCB MAIN CIRCUIT BREAKER
MCC MOTOR CONTROL CENTER
MDP MAIN DISTRIBUTION PANEL
MH MANHOLE
MIN MINIMUM
MOCP MAXIMUM OVERCURRENT PROTECTION
MLO MAIN LUGS ONLY
MT MOUNT
MTD MOUNTED
MTG MOUNTING
MTS MANUAL TRANSFER SWITCH
MV MEDIUM VOLTAGE

NA NOT APPLICABLE
NEC NATIONAL ELECTRICAL CODE
NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT OR N NEUTRAL
NFPA NATIONAL FIRE PROTECTION ASSOCIATION
NIC NOT IN CONTRACT
NL NIGHT LIGHT
NO NORMALLY OPEN
NTS NOT TO SCALE
OC ON CENTER
OD OUTSIDE DIAMETER
OL OVERLOAD
PA PUBLIC ADDRESS
PB PANELBOARD, PULL BOX, OR PUSHBUTTON
PBPU PREFABRICATED BEDSIDE PATIENT UNIT
PCB POLYCHLORINATED BIPHENYL
PF POWER FACTOR
PH PHASE
PNL PANEL
PT POTENTIAL TRANSFORMER
PWR POWER

RCP REFLECTED CEILING PLAN
REC RECESSED
RECPT RECEPTACLE
RGS RIGID GALVANIZED STEEL
REQD REQUIRED

SCC SHORT CIRCUIT CAPACITY
SPEC SPECIFICATION
SPST SINGLE POLE, SINGLE THROW
SURF SURFACE
SW SWITCH
SWBD SWITCHBOARD
SWGR SWITCHGEAR

TEL TELEPHONE
TP TWISTED PAIR
TPS TWISTED PAIR SHIELDED
TV TELEVISION
TYP TYPICAL

UGND UNDERGROUND
UL UNDERWRITERS LABORATORY
UPS UNINTERRUPTIBLE POWER SUPPLY
UTIL UTILITY

V VOLT
VA VOLT AMPERE
VAR VOLT AMPERE REACTIVE
VFD VARIABLE FREQUENCY DRIVE
VOLT VOLTAGE

W WATT
WP WEATHERPROOF

XFER TRANSFER
XFMR TRANSFORMER

ELECTRICAL SYMBOLS - DIAGRAM

DELTA CONNECTION
MOTOR, SINGLE-PHASE
MOTOR, THREE-PHASE
TRANSFORMER
WYE CONNECTION
EARTH GROUND
JUNCTION BOX
PB — PULL BOX
NORMALLY CLOSED RELAY CONTACT
NORMALLY OPEN RELAY CONTACT
FUSE WITH RATING
MOLDED CASE CIRCUIT BREAKER
LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
HIGH-VOLTAGE OIL CIRCUIT BREAKER
HIGH-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
SWITCH AND FUSE UNIT
G — GENERATOR, POWER
POTHEAD
STRESS CONE
LIGHTNING ARRESTOR
M — METER
A — AMMETER
V — VOLTMETER
W — WATTMETER
WH — WATT-HOUR METER

ELECTRICAL SYMBOLS - POWER PLAN

DISCONNECT SWITCH, FUSED
DISCONNECT SWITCH, UNFUSED
STARTER, COMBINATION WITH DISCONNECT SWITCH
STARTER OR MOTOR CONTROLLER
VFD — VARIABLE FREQUENCY DRIVE
VENTILATOR OR FAN COIL UNIT OUTLET
CONDUIT TERMINATED 6" [152mm] AFF IN STANDARD BOX FOR EXTENSION TO EQUIPMENT AS DIRECTED.
DASHED SYMBOL INDICATES ITEM TO BE REMOVED.
CONDUIT TERMINATED W/COUPLING (FLUSH W/FINISHED FLOOR) FOR EXTENSION TO EQUIPMENT AS DIRECTED.
$2 — SWITCH
F = FUSED SWITCH K = KEY OPERATED L = LOCK
LM= LOW VOLTAGE MASTER M = MANUAL MOTOR STARTING
MC= MOMENTARY CONTACT MP= MOTOR SNAP WITH PILOT LIGHT
P = WITH PILOT LIGHT (THERMAL TYPE) PB= PUSH BUTTON STATION
2= TWO POLE 3= THREE WAY 4= FOUR WAY RC= REMOTE CONTROL
WP = WEATHER PROOF X = EXPLOSION PROOF D = DIMMER
OS = OCCUPANCY SENSOR WALL SWITCH.
MOTOR
T — TRANSFORMER, PLAN
WYE CONNECTION
EARTH GROUND
JUNCTION BOX
2/4 — BASKET TYPE CABLE TRAY, WIDTH/HEIGHT IN INCHES INDICATED. STANDARD IS 12"W x 4" DP. FIELD VERIFY EXACT ROUTE. PROVIDE ALL OFFSETS, RISE/FALL TRANSITIONS, CABLE DROP-OUTS, ETC. AS REQUIRED.
W W — WIREWAY
RC — RIGID CONDUIT LINE = RC
DB — DIRECT BURIAL CABLE = DB
P — POWER DUCT = P
FLOOR OUTLET, DATA COMMUNICATION
PUSH BUTTON
DP# — DISTRIBUTION PANEL
PANELBOARD CABINET, FLUSH MOUNTED
PANELBOARD CABINET, SURFACE MOUNTED
RECEPTACLE, DUPLEX, MTD. 18" AFF
EM — RECEPTACLE, DUPLEX ON EMERGENCY POWER, MTD. 18" AFF
GFCI — RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, MTD. 18" AFF

RECEPTACLE, QUADRAPLEX, MTD. 18" AFF
RECEPTACLE, SINGLE, MTD 18" AFF
RECEPTACLE, DUPLEX, MTD. 46" AFF
RECEPTACLE, SPECIAL PURPOSE (REFER TO PLAN NOTES)
RECEPTACLE, DUPLEX, CEILING MTD (FLUSH)
PM — ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6" [1067mm] AFF OR AS INDICATED.
BRANCH CIRCUIT HOMERUN. ARROWS INDICATE NUMBER OF CIRCUITS. ONE SEPARATE NEUTRAL AND GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH CIRCUIT.

ELECTRICAL SYMBOLS - LIGHTING PLAN

LIGHT FIXTURE CEILING MOUNTED.
EMERGENCY LIGHT, WALL MTD 7'-6" AFF UNLESS OTHERWISE NOTED.
LIGHT FIXTURE, RECESSED FLUORESCENT, NORMAL POWER 2'x4' SUBSCRIPT INDICATES TYPE.
LIGHT FIXTURE, RECESSED FLUORESCENT, EMERGENCY 2'x4'; SUBSCRIPT INDICATES TYPE.
LIGHT TRACK WITH HEADS AS SHOWN
LIGHT FIXTURE, WALL MOUNTED 7'-6" AFF UNLESS OTHERWISE NOTED.
LIGHTING, TWO HEAD EMERGENCY BATTERY POWER
LIGHT POLE, ONE LUMINAIRE
LIGHT POLE, TWO LUMINAIRES
EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN
EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN
OS — DUAL TECHNOLOGY (PASSIVE INFRARED AND/OR ULTRASONIC) OCCUPANCY SENSOR WITH ISOLATED RELAY FOR DDC INTERFACE. PROVIDE 1/8" SCALE FLOOR PLANS WITH MANUFACTURER'S RECOMMENDED LAYOUT AND COVERAGE PATTERN DURING SHOP DRAWING REVIEW. SUBMITTALS MISSING THIS INFORMATION WILL BE REJECTED.
E — EMERGENCY SHUNT/CONTROL RELAY.

COMMUNICATION SYMBOLS

DATA OUTLET (18" MH). PROVIDE 1" CONDUIT TO LOCAL CABLE TRAY ABOVE ACCESSIBLE CEILING. REFER TO DETAIL SHEET 137-E502.
OUTLET TELEPHONE; "W" INDICATES WALL TYPE 54" MH. PROVIDE 1" CONDUIT TO LOCAL CABLE TRAY ABOVE ACCESSIBLE CEILING. REFER TO DETAIL SHEET 137-E502.
AP — NEW ABOVE CEILING WAP OUTLET, 2-DATA ONLY. REFER TO DETAIL SHEET 137-E502.
AP — REMOVE EXSITING ACCESS POINTS, ANTENNAS AND CABLING.
OUTLET CATV (18" MH). PROVIDE 1" CONDUIT TO LOCAL CABLE TRAY ABOVE ACCESSIBLE CEILING. REFER TO DETAIL SHEET 137-E502.
R — OUTLET CATV CEILING MOUNTED. INCLUDE 1-GANG BOX IN CEILING. PROVIDE CATV CABLING, NURSE CALL CONTROL JACK, AND CABLING PER SPECIFICATIONS.
V — VOLUME CONTROLLER FOR LOCAL PUBLIC ADDRESS CEILING SPEAKER. INCLUDE 1-GANG BOX WITH 3/4" CONDUIT TO ABOVE CEILING.
SC — RECESSED CEILING SPEAKER FOR PUBLIC ADDRESS.
INTERCOM STATION (REFER TO SPECS. FOR FUNCTIONAL OPERATION OF INSTRUMENT & TYPE REQUIRED).
S — INTERCOM STAFF STATION.
R — INTERCOM REMOTE STATION.
K — KEYSWITCH
S WP — HORN WEATHERPROOF TYPE PAGING/INTERCOM SYSTEM SPEAKER (90" MH UNLESS OTHERWISE NOTED) INCLUDING 1-GANG BOX WITH .75" CONDUIT TO ABOVE ACCESSIBLE CEILING

SHEET LIST

Sheet Number	Sheet Name
137-E001	SYMBOLS
137-E201	NEW SIGNALS CLOSET ELEVATIONS
137-E501	ELECTRICAL DETAILS
137-E502	TECHNOLOGY DETAILS
137-E503	SINGLE LINE DIAGRAM
137-E504	SECURITY DETAILS
137-E505	PATIENT WANDERER-GRAPHICAL PLANS
137-E601	ELECTRICAL SCHEDULES
137-E602	LIGHTING FIXTURES (1)
137-E603	LIGHTING FIXTURES (2)
137-E604	LIGHTING FIXTURES (3)
137-ES101	ELECTRICAL SITE PLAN
137-ED101	FIRST FLOOR AREA "A" - REMOVALS
137-ED102	FIRST FLOOR AREA "B" - REMOVALS
137-EL100	PIPE BASEMENT - NEW WORK
137-EL101	FIRST FLOOR AREA "A" - LIGHTING
137-EL102	FIRST FLOOR AREA "B" - LIGHTING
137-EL103	PENTHOUSE PLANS - LIGHTING, POWER, SIGNALS
137-EP101	FIRST FLOOR AREA "A" - POWER
137-EP102	FIRST FLOOR AREA "B" - POWER
137-EP103	ROOF PLAN AREA "A" - POWER AND LIGHTNING PROTECTION
137-EP104	ROOF PLAN AREA "B" - POWER AND LIGHTNING PROTECTION
137-EP105	FIRST FLOOR BUILDING 137A - POWER
137-ET101	FIRST FLOOR AREA "A" - SIGNALS
137-ET102	FIRST FLOOR AREA "B" - SIGNALS

NURSE CALL SYMBOLS

NCT — NURSE CALL TERMINAL CABINET
M — NURSE CALL MASTER STATION ON COUNTER TOP. SUBSCRIPT "VM" INDICATES VISUAL MASTER LCD TOUCH SCREEN AND PC.
T — NURSES CALL STATION - MTD 6'-0" AFF FOR SHOWER LOCATION
- MTD 4'-6" AFF FOR TUB LOCATION
- MTD 3'-0" AFF FOR TOILET LOCATION
P — NURSES CALL PATIENT STATION, PILLOW SPEAKER/TV/LIGHTING CONTROLLER - MTD 5'-0" AFF. PROVIDE CONNECTION TO ECU UNIT IN HEADWALL.
D — NURSE'S CALL DUTY STATION MTD 5'-0". AFF UNLESS OTHERWISE NOTED.
S — NURSE'S CALL STAFF STATION MTD 5'-0". AFF UNLESS OTHERWISE NOTED.
S_P — NURSE'S CALL STAFF PRESENCE STATION MTD 5'-0". AFF UNLESS OTHERWISE NOTED.
B — EMERGENCY CODE BLUE BUTTON MTD 5'-0". AFF UNLESS OTHERWISE NOTED.
Z — NURSE'S CALL CORRIDOR DOME LIGHT. "Z" DESIGNATION INDICATES INTERSECTIONAL ZONE INDICATOR.
S_{NA} — VISUAL ANNUNCIATOR WITH INTERCOM MTD. 5'-0" AFF.

ELECTRONIC SAFETY AND SECURITY SYMBOLS

FAAP — ALARM, FIRE, NETWORK COMMUNICATOR PANEL.
FACP — ALARM, FIRE, PANEL; LETTERS INDICATE AS FOLLOWS: FACC = CENTRAL CONSOLE FACP = CONTROL PANEL MFACP= MASTER CONTROL PANEL FAAP = ANNUNCIATOR PANEL
FATC — ALARM, FIRE, TERMINAL CABINET.
FARP — ALARM, FIRE, REMOTE ANNUNCIATOR PANEL
F — ALARM, FIRE, MANUAL PULL STATION, MTD. 46" AFF
F — ALARM, SPEAKER/LIGHT, ONE ASSEMBLY, MTD. 80" AFF
L — ALARM, SIGNAL LIGHT, STROBE, MTD. 46" AFF
V — ALARM, VALVE TAMPER SWITCH
W — ALARM, WATER FLOW SWITCH
H — DETECTOR, HEAT
S — DETECTOR; SMOKE
S — DETECTOR, SMOKE, FOR DUCT
SR — DUCT DETECTOR REMOTE TEST STATION
ZAM — FIRE ALARM MONITORING/CONTROL MODULE
D — ELECTROMAGNETIC TYPE DOOR HOLDER OUTLET
HD — ELECTRIC HAND DRYER.
UV — UNIT VENTILATOR BY DIV. 23.
FC — FAN COIL UNIT BY DIV. 23.
UH — UNIT HEATER BY DIV. 23.
PB — PULLBOX
EB — ELECTRIC BASEBOARD HEATER.
P — PUSH PLATE ROUGH-IN FOR MOTORIZED DOOR OPERATOR (40" A.F.F.). PROVIDE BACKBOX AND 0.75"C. TO DOOR OPERATOR CONTROLLER. REFER TO DETAILS, SHEET 137-E504.
A — ELECTRIC DOOR OPERATOR, INCLUDING RELAYS, OPERATING SWITCHES AND LIMIT SWITCHES (120 VOLT SINGLE PHASE OPERATION). REFER TO DETAILS, SHEET 137-E504.
ES L — ELECTRIC DOOR STRIKE BY G.C. PROVIDE LOW VOLTAGE POWER AND WIRING SUBSCRIPT "M" DENOTES MAG LOCK, "L" DENOTES ELECTRIC LATCH. REFER TO DETAILS, SHEET 137-E504.
MD — INTRUSION DETECTION CEILING MOUNTED PIR SENSOR INCLUDING WIRING
RX M — REQUEST TO EXIT SENSOR IN HARDWARE BY OTHERS. PROVIDE WIRING. SUBSCRIPT "M" INDICATES WALL MOUNTED PIR SENSOR FOR REX FUNCTION, (1-GANG BOX, .75"C. WITH WIRING). REFER TO DETAILS SHEET 137-E504
DM — MAGNETIC DOOR POSITION SENSOR BY OTHERS, PROVIDE WIRING. REFER TO DETAILS, SHEET 137-E504.
RA — REQUEST TO EXIT MANUAL OVERRIDE BUTTON (48" M.H.); CAMDEN #CM-705E INCLUDING WIRING.
CR K — PROXIMITY CARD READER (48" M.H.), WITH WIRING, 1 GANG BOX WITH .75"C. TO COMMON SECURITY JUNCTION BOX ABOVE CEILING FOR CARD READER. SUBSCRIPT "K" INDICATED COMBO CARD READER/KEYPAD. REFER TO DETAILS SHEET 137-E504.
CC 1 — CEILING MOUNTED CCTV CAMERA, LOW PROFILE DOME. INCLUDE 1-DATA DROP CABLING. NUMERAL INDICATES ENTRY IN CAMERA SCHEDULE.
CC 1 — WALL MOUNTED CCTV OUTDOOR CAMERA. INCLUDE 1-DATA DROP CABLING NUMERAL INDICATES ENTRY IN CAMERA SCHEDULE. EXTERIOR CAMERAS INCLUDE LOCAL LOW VOLTAGE POWER SUPPLY AND POWER WIRING.
DA — DESK MOUNTED DURESS ALARM BUTTON INCLUDING WIRING.
K — PATIENT WANDERER SYSTEM WALL MOUNTED KEYPAD, 44"M/H, 1-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING. REFER TO DETAILS, SHEET 137-E502.

Revisions	Date

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Drawing Title: SYMBOLS
Approved: Project Director

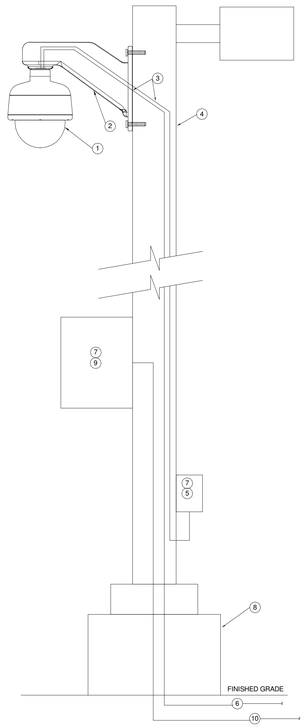
Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911
Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-E001
Dwg. 112 of 135

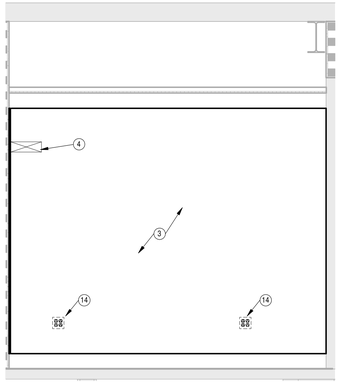
Department of Veterans Affairs

DETAIL NOTES

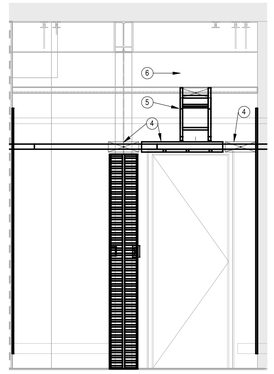
1. CAMERA ON PARKING LOT SIDE OF POLE. REFER TO CAMERA SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE CAMERA ATTACHMENT POINT ON POLE.
2. POLE MOUNTED CAMERA PENDANT ARM. COORDINATE WITH POLE MANUFACTURER FOR SPECIFIC ATTACHMENT REQUIREMENTS.
3. ROUTE OUTDOOR RATED RG-6 OUTDOOR COAX VIDEO/CONTROL AND 2C #18 POWER CABLE THROUGH POLE AND MOUNTING ARM TO CAMERA.
4. LIGHT POLE.
5. PROVIDE POLE BASE MOUNTED NEMA 3R RATED LOW VOLTAGE POWER SUPPLY WITH LOCKING COVER.
6. EXTEND RG-6 OUTDOOR RATED CABLE THROUGH UNDERGROUND CONDUIT TO NEW SIGNALS CLOSET 1C142 AND TERMINATE ON UL LIGHTNING PROTECTOR.
7. 120V CONNECTION TO POWER SUPPLY.
8. CONCRETE POLE BASE.
9. POLE MOUNTED EMERGENCY PHONE/BLUE LIGHT. 54" MH ABOVE FINISHED GRADE FOR OPERABLE PORTIONS OF ENCLOSURE.
10. CAT 6 4 PR OSP RATED TO NEW SIGNALS CLOSET 1C142.



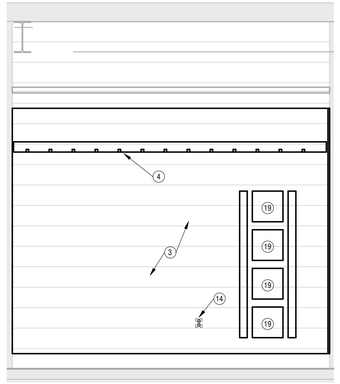
7 **CCTV/EMERGENCY PHONE POLE DETAIL**
1/8" = 1'-0"



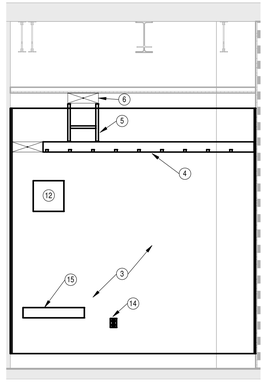
3 **NEW SIGNALS CLOSET - NORTH WALL**
1/2" = 1'-0"



6 **NEW SIGNALS CLOSET - EAST WALL**
1/2" = 1'-0"



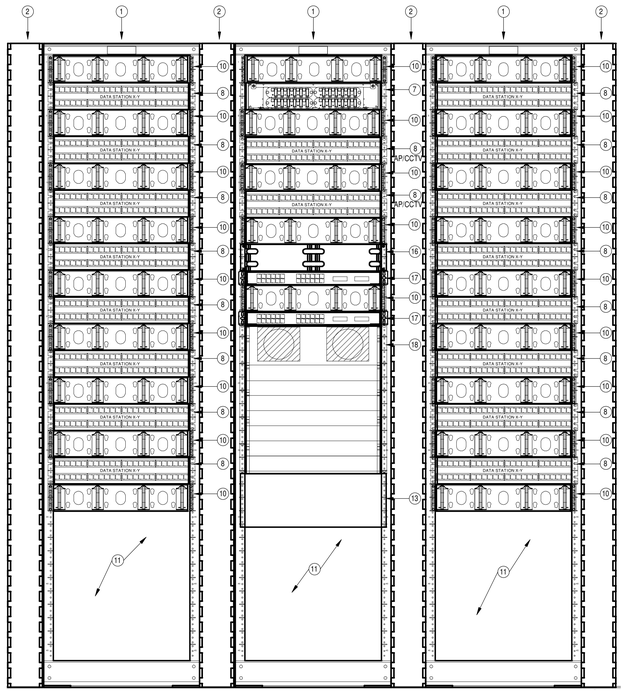
5 **NEW SIGNALS CLOSET - SOUTH WALL**
1/2" = 1'-0"



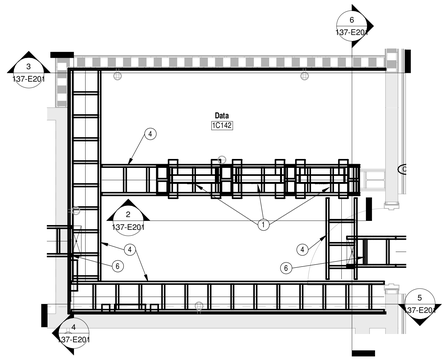
4 **NEW SIGNALS CLOSET - WEST WALL**
1/2" = 1'-0"

DETAILS NOTES

1. NEW RELAY RACK
2. NEW FULL HEIGHT VERTICAL CABLE MANAGEMENT
3. NEW 8' HIGH, FULL WIDTH FIRE TREATED TYPE A/C PLYWOOD BACKBOARD
4. NEW 12" w. HORIZONTAL LADDER RACK
5. NEW 12" W. VERTICAL WALL MOUNTED LADDER RACK
6. CORRIDOR CABLE TRAY PENETRATION THROUGH WALL INCLUDING FIRE-STOP.
7. FIBER TERMIANTION PANEL
8. UTP DATA STATION CABLE PATCH PANEL
9. 1RU HORIZONTAL FRONT/REAR WIRE MANAGEMENT PANEL
10. 2RU HORIZONTAL FRONT/REAR WIRE MANAGEMENT PANEL
11. NETWORK ELECTRONICS BY VA
12. CATV SYSTEM WALL FIELD INCLUDING DISTRIBUTION AMPLIFIER AND SPLITTER/TAP NETWORK.
13. 6 KVA UPS, PROVIDED BY OTHERS.
14. 20A-120V OUTLET.
15. TELECOMMUNICATIONS GROUND BAR
16. RACK MOUNTED, 200 PAIR 110 BLOCK FOR VOICE BACKBONE.
17. 24 PORT POE SWITCH FOR CCTV CAMERAS TO BE INCLUDED WITH THE CCTV SYSTEM.
18. CORE SWITCH, PROVIDED BY OTHERS.
19. NEW PACS SYSTEM PANELS AND LOCK POWER SUPPLIES.



2 **NEW DATA RACK ELEVATION**
1 1/2" = 1'-0"



1 **NEW SIGNALS CLOSET**
1/2" = 1'-0"

Revisions	Date

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Drawing Title: NEW SIGNALS CLOSET ELEVATIONS

Approved: Project Director

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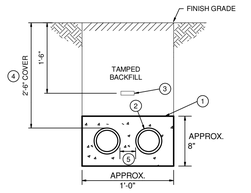
Drawn: JDK
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-E201
Dwg. 113 of 135

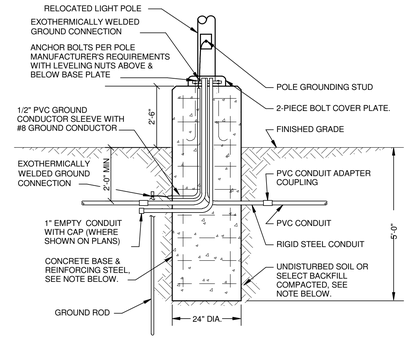
Department of Veterans Affairs



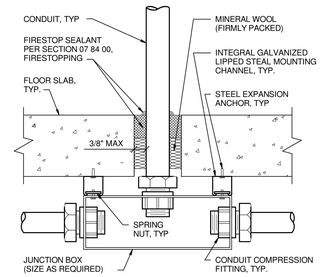
DETAIL NOTES

1. 3" 3,000 PSI CONCRETE ENCASEMENT.
2. 1.25"C. SCHEDULE 40 PVC DUCTS.
3. RED DYE, DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.
4. COORDINATE EXACT DEPTH WITH CIVIL ENGINEER.
5. MIN. 3" SPACING BETWEEN CONDUITS.

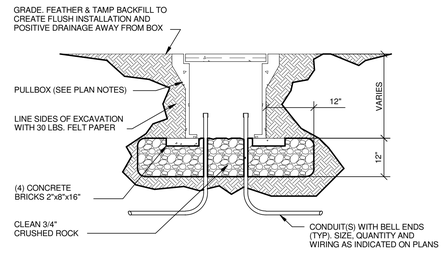
A DUCT BANK DETAIL
NTS



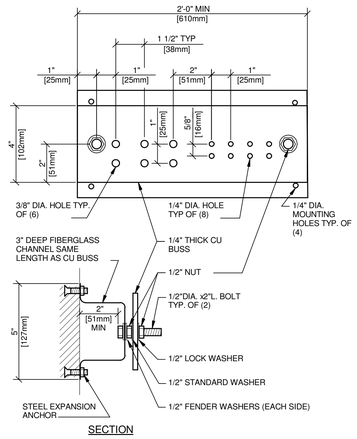
B POLE BASE DETAIL
NTS



C FLOOR SLAB PENETRATION DETAIL
NTS



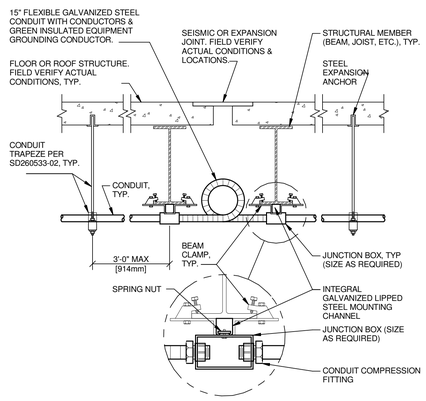
D UNDERGROUND CONCRETE PULLBOX
SCALE: NONE INSTALLATION IN TURF AREAS



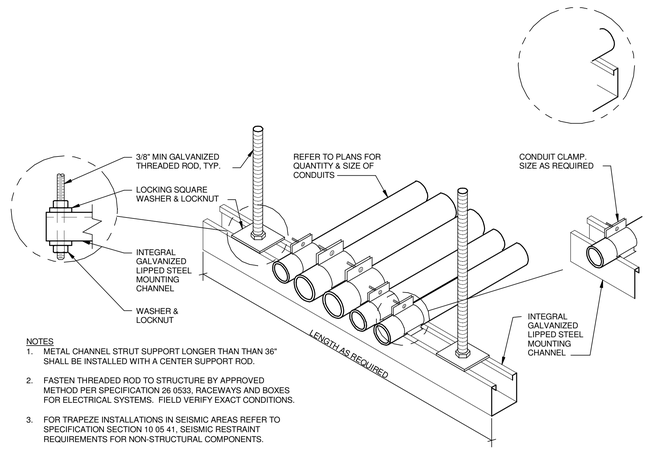
SECTION

GENERAL NOTES
1. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
2. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
3. HOLES MAY BE ADDED IF REQUIRED.

E GROUNDING BAR DETAIL
NTS

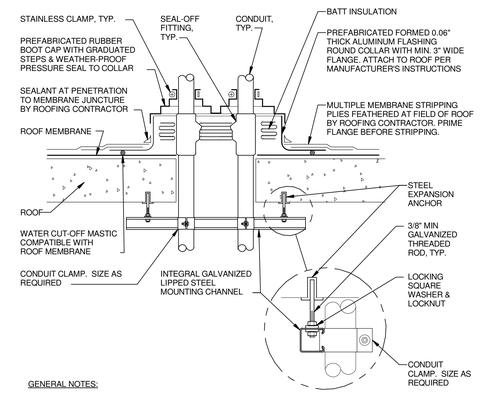


F CONDUIT JOINT CROSSING DETAIL
NTS



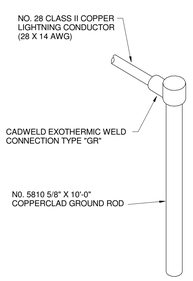
NOTES
1. METAL CHANNEL STRUT SUPPORT LONGER THAN THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 0533, RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
3. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 10 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

G CONDUIT TRAPEZE MOUNTING DETAIL
NTS

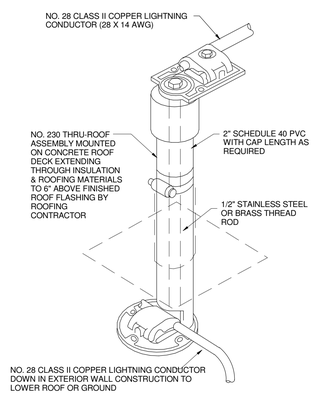


GENERAL NOTES:
1. MAINTAIN A MINIMUM CLEARANCE OF 12" [308mm] ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
2. FLANGES OF ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.
3. VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT.
4. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.

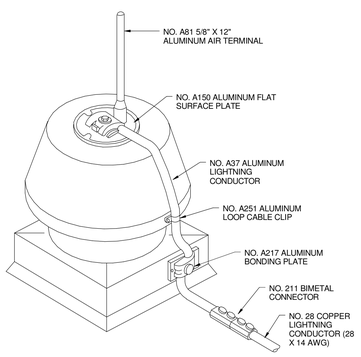
H ROOF PENETRATION DETAIL
NTS



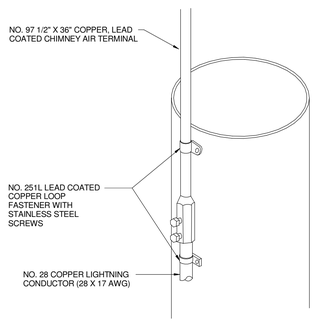
LIGHTNING PROTECTION
I GROUNDING DETAIL
NTS



LIGHTNING PROTECTION
J THRU-ROOF DETAIL
NTS



LIGHTNING PROTECTION
K AIR TERMINAL DETAIL
NTS



LIGHTNING PROTECTION
L AIR TERMINAL DETAIL
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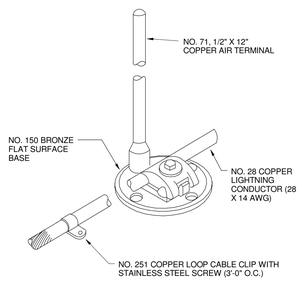
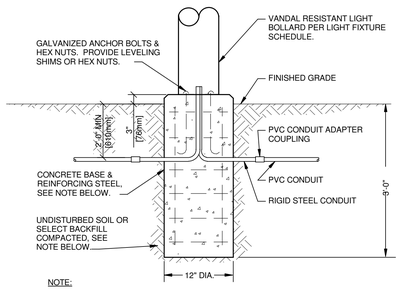


LIGHTNING PROTECTION
M AIR TERMINAL DETAIL
NTS



NOTE:
BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. STRUCTURAL DESIGN IS SHOWN ON STRUCTURAL DRAWINGS.

LIGHTNING PROTECTION
N BOLLARD BASE DETAIL
NTS

Revisions	Date

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Drawing Title: ELECTRICAL DETAILS

Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

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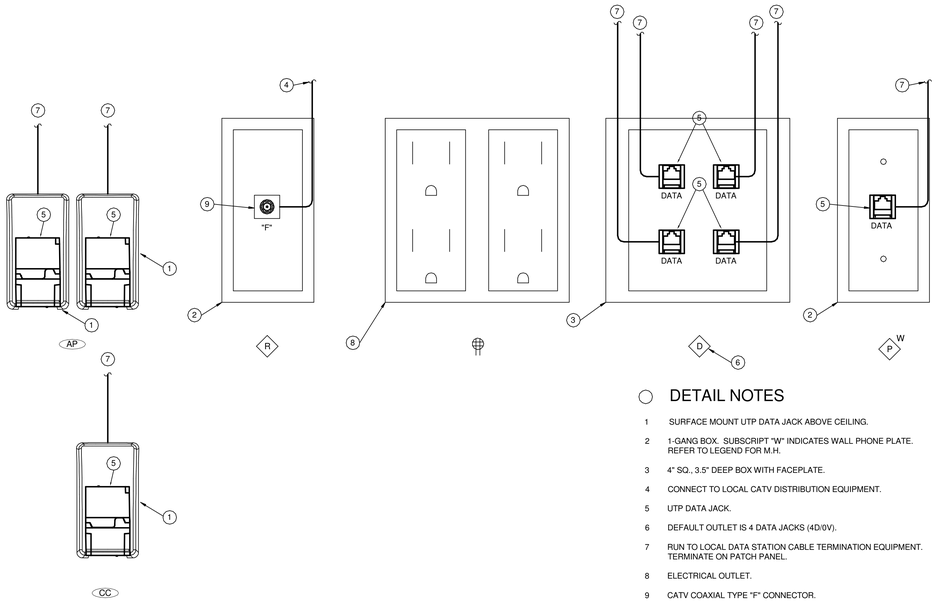
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-E501
Dwg. 114 of 135

Department of Veterans Affairs



DETAIL NOTES

1 SURFACE MOUNT UTP DATA JACK ABOVE CEILING.

2 1-GANG BOX. SUBSCRIPT "W" INDICATES WALL PHONE PLATE. REFER TO LEGEND FOR M.H.

3 4" SQ., 3.5" DEEP BOX WITH FACEPLATE.

4 CONNECT TO LOCAL CATV DISTRIBUTION EQUIPMENT.

5 UTP DATA JACK.

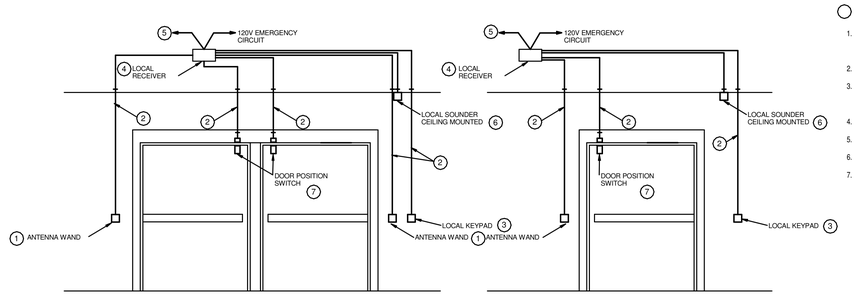
6 DEFAULT OUTLET IS 4 DATA JACKS (4D/0V).

7 RUN TO LOCAL DATA STATION CABLE TERMINATION EQUIPMENT. TERMINATE ON PATCH PANEL.

8 ELECTRICAL OUTLET.

9 CATV COAXIAL TYPE "F" CONNECTOR.

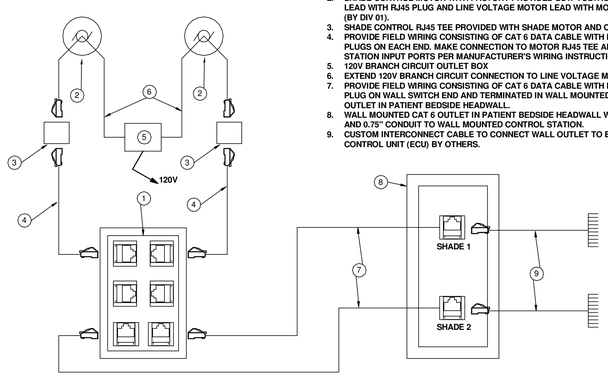
1 TECHNOLOGY OUTLET ELEVATIONS



3 PATIENT WANDERER SYSTEM

DETAIL NOTES

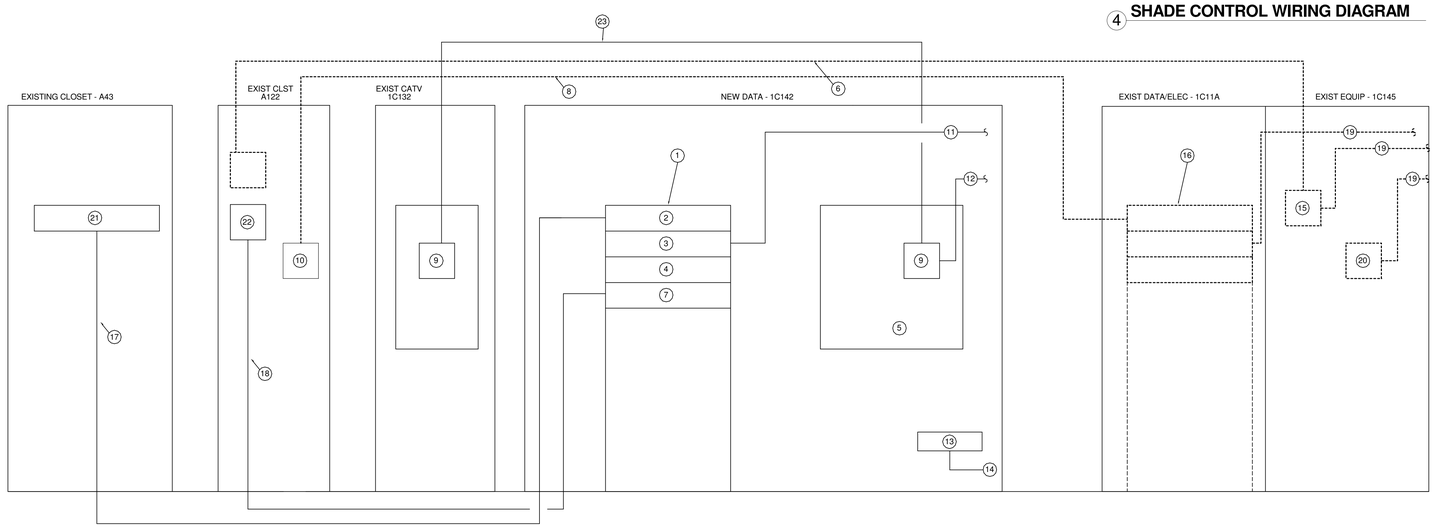
1. PROVIDE 1-GANG BOX FOR MOUNTING OF TX WAND. COORDINATE BOX MOUNTING HEIGHT AND LOCATION WITH MANUFACTURER TO ENSURE PROPER CLEARANCES FROM POTENTIAL SOURCES OF INTERFERENCE. ACCUTEC #TW, P/N 730068. EXTEND WIRING TO LOCAL RECEIVER.
2. PROVIDE 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING. EXTEND SYSTEM WIRING TO LOCAL RECEIVER.
3. PROVIDE 1-GANG BOX FOR MOUNTING OF SYSTEM KEYPAD. COORDINATE BOX MOUNTING HEIGHT AND LOCATION WITH MANUFACTURER TO ENSURE PROPER CLEANRACES FROM POTENTIAL SOURCES OF INTERFERENCE. ACCUTECH #KD, P/N 650202. EXTEND WIRING TO LOCAL RECEIVER.
4. LOCAL RECEIVER ABOVE CEILING MOUNTED IN 4" SQ 2" DP. BACKBOX. ACCUTECH #ESRR, P/N 670076. PROVIDE LOCAL LOW VOLTAGE POWER SUPPLY.
5. EXTEND LOW VOLTAGE CONTROL CABLING TO REMOTE CONTROLLER, 22AWG/12C IN ROOM 1C145.
6. CEILING MOUNTED SOUNDER, ACCUTECH #LA, P/N/ 700216. EXTEND WIRING TO LOCAL RECEIVER.
7. RECESSED MAGNETIC DOOR POSITION SWITCH, GE INTERLOGIX 1078 SERIES AS REQUIRED BY SYSTEM MANUFACTURER. EXTEND WIRING TO LOCAL RECEIVER.



4 SHADE CONTROL WIRING DIAGRAM

DETAIL NOTES

1. **SHADE CONTROL WALL SWITCH BY (DIV 01) 1-GANG BOX, 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING, WITH RJ45 PORTS IN REAR FOR FIELD CABLING.**
2. **SHADE CONTROL MOTOR WITH FACTORY PROVIDED LOW VOLTAGE MOTOR LEAD WITH RJ45 PLUG AND LINE VOLTAGE MOTOR LEAD WITH MODULAR PLUG (BY DIV 01).**
3. **SHADE CONTROL RJ45 TEE PROVIDED WITH SHADE MOTOR AND CONTROLS**
4. **PROVIDE FIELD WIRING CONSISTING OF CAT 6 DATA CABLE WITH MALE RJ45 PLUGS ON EACH END. MAKE CONNECTION TO MOTOR RJ45 TEE AND WALL STATION INPUT PORTS PER MANUFACTURER'S WIRING INSTRUCTIONS.**
5. **120V BRANCH CIRCUIT OUTLET BOX**
6. **EXTEND 120V BRANCH CIRCUIT CONNECTION TO LINE VOLTAGE MOTOR LEAD.**
7. **PROVIDE FIELD WIRING CONSISTING OF CAT 6 DATA CABLE WITH MALE RJ45 PLUG ON WALL SWITCH END AND TERMINATED IN WALL MOUNTED CAT 6 DATA OUTLET IN PATIENT BEDSIDE HEADWALL.**
8. **WALL MOUNTED CAT 6 OUTLET IN PATIENT BEDSIDE HEADWALL WITH CABLING AND 0.75" CONDUIT TO WALL MOUNTED CONTROL STATION.**
9. **CUSTOM INTERCONNECT CABLE TO CONNECT WALL OUTLET TO ENVIRONMENT CONTROL UNIT (ECU) BY OTHERS.**



2 STRUCTURED CABLING RISER DIAGRAM

DETAIL NOTES

1 NEW RACKS FOR DATA/FIBER TERMINATIONS.

2 NEW RACK MOUNTED FIBER TERMINATION PANEL

3 NETWORK ELECTRONICS TO BE PROVIDED BY OWNER

4 DATA STATION CABLING PATCH PANELS (BLUE AND RED)

5 PLYWOOD BACKBOARD AS SHOWN ON DRAWINGS

6 REMOVE EXISTING VOICE BACKBONE AT END OF PROJECT.

7 RACK MOUNTED 200 PAIR 110 BLOCK.

8 REMOVE EXISTING FIBER BACKBONE AT END OF PROJECT.

9 CATV DISTRIBUTION EQUIPMENT AND BROADBAND AMPLIFIER.

10 EXISTING FIBER OPTIC PANEL TO REMAIN. REMOVE EXISTING FIBER BACKBONE.

11 DATA STATION CABLING TO LOCAL OUTLETS.

12 CATV STATION CABLING TO LOCAL OUTLETS

13 TELECOMMUNICATIONS MAIN GROUND BAR (TMGB)

14 BOND TO ELECTRICAL SERVICE GROUNDING ELECTRODE IN ROOM.

15 REMOVE ALL EXISTING VOICE TERMINATION EQUIPMENT AFTER ALL CABLING HAS BEEN REMOVED..

16 REMOVE EXISTING DATA RACK AND TERMINATION EQUIPMENT AFTER EXISTING DATA CABLING HAS BEEN REMOVED.

17 NEW FIBER BACKBONE, 24mm/12sm FROM EXISTING CLOSET A43. RUN IN 1-2" C. IN CRAWLSPACE.

18 NEW 200 PAIR COPPER BACKBONE BACK TO EXISTING CLOSET A122. RUN IN 1-4" C. IN CRAWLSPACE.

19 REMOVE ALL EXISTING STATION CABLING.

20 REMOVE ALL EXISTING CATV DISTRIBUTION EQUIPMENT AFTER ALL CABLING HAS BEEN REMOVED.

21 PROVIDE NEW WALL MOUNTED FIBER TERMINATION CABINET AND MOUNT ADJACENT TO EXISTING.

22 PROVIDE NEW 110 WALL FIELD FOR VOICE BACKBONE.

23 EXTEND CATV RISER (RG11 QUAD SHIELDED) BACK TO EXISTING CATV/SATELLITE HEAEND SYSTEM AND MAKE CONNECTION TO MAIN SYSTEM OUTPUT. RUN IN 1-2" C. IN CRAWLSPACE.

Revisions	Date

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Drawing Title: TECHNOLOGY DETAILS

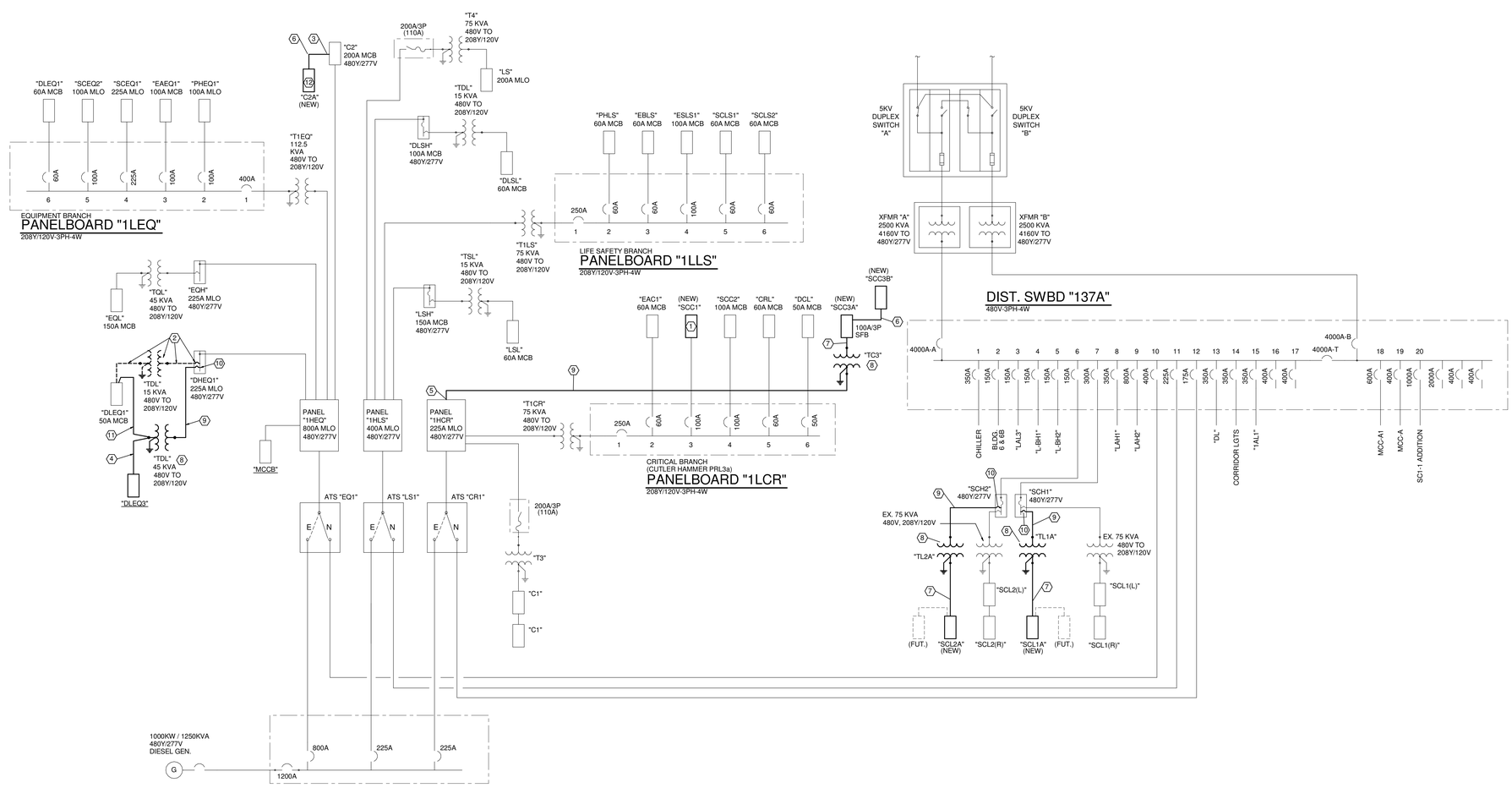
Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: JDK
Drawn: JDK
Location: Hampton, VA.

Date: 04/26/2013
Project No. 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-E502
Dwg. 115 of 135

Department of Veterans Affairs



SECONDARY SINGLE LINE

SCALE: N.T.S.

GENERAL NOTES

A. LIGHT LINEWEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN.
DARK LINEWEIGHT INDICATES NEW EQUIPMENT.
DASHED LINEWEIGHT INDICATES EQUIPMENT TO BE REMOVED.
B. UPDATE ALL PANEL INDECIES WHERE NEW CIRCUITS ARE ADDED OR REMOVED.

PLAN NOTES

1. REMOVE AND REPLACE 24 CIRCUIT PANELBOARD WITH 54 CIRCUIT PANELBOARD. RETERMINATE ALL EXISTING CONDUITS/CONDUCTORS.
2. REMOVE 15 KVA DRY TYPE TRANSFORMER AND PRIMARY/SECONDARY FEEDERS.
3. PROVIDE NEW 480V - 100A/3P CIRCUIT BREAKER IN EXISTING PANEL.
4. RUN 4-#1, 1-#6 G.E.C. IN 1.5"C.
5. PROVIDE NEW 480V - 70A/3P CIRCUIT BREAKER IN EXISTING PANEL.
6. RUN 4-#2, 1-#8 GRD. IN 1.25"C.
7. RUN 4-#1/0, 1-#6 G.E.C. IN 2"C.
8. NEW 45 KVA, 480 DELTA TO 208Y/120V-3PH-4W, K=13 DRY TYPE TRANSFORMER. 3,800 SCA SECONDARY SHORT CIRCUIT AVAILABILITY BASED ON UNLIMITED PRIMARY.
9. RUN 3-#4, 1-#8 GRD. IN 1"C.
10. PROVIDE NEW 480V-70A/3P CIRCUIT BREAKER IN EXISTING SQUARE D "NH1B" PANEL.
11. RUN 4-#6, 1-#8 G.E.C. IN 1"C.
12. PROVIDE 22 KAIC RATED PANEL.

	MOTOR												STARTER												DISCONNECT MEANS												CONTROL				FEEDER				
		CHARACTERISTICS									LOCATION			TYPE					LOCATION						TYPE					LOCATION															
MARK	NAMEPLATE	HORSEPOWER (HP)	LOAD (kVA)	120V-1PH	208V-1PH	208V-3PH	240V-1PH	240V-3PH	277V-1PH	480V-1PH	480V-3PH	ROOM NUMBER	ROOM NAME	NEMA SIZE	MANUAL	MAGNETIC	BUILT-IN MOTOR O/L	2-SPEED	VFD	SEE NOTE	NEAR MOTOR	MOTOR CONT CENTER	EQUIP CONT PANEL	ROOM NUMBER	SEE NOTE	FURNISHED BY	DISC SWITCH	MANUAL STARTER	RECEPTACLE	FEEDER SW OR BREAKER	NEMA TYPE	DISC SIZE	FUSE SIZE	NEAR MOTOR	MOTOR CONT CENTER	EQUIP CONT PANEL	PANELBOARD	SEE NOTE	FURNISHED BY	INTERLOCK WITH MOTOR NO. BY E.C.	MANUAL AT STARTER	INTEGRAL WITH EQUIPMENT	FURNISHED BY	SEE NOTE	NUMBER OF CONDUCTORS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	SEE NOTE
137A-EF2	EXHAUST FAN 2	0.125	0.408	•										0		•								EX.		DIV 26	•		•						•			DIV 23				DIV 23	2	2	12	12	0.75	
137C-AHU3R	AHU3 RETURN FAN	3	3.991								•							•		•					DIV 26	•							•					DIV 26				DIV 23		3	12	12	.75	
137C-AHU3S	AHU3 SUPPLY FAN	10	11.639								•							•		•					DIV 26	•							•					DIV 26				DIV 23		3	10	10	.75	
137C-AHU4R	AHU4 RETURN FAN	.5	6.319								•							•		•					DIV 26	•							•					DIV 26				DIV 23		3	12	12	.75	
137C-AHU4S	AHU4 SUPPLY FAN	25	28.267								•							•		•					DIV 26	•							•					DIV 26				DIV 23		3	6	10	1	
137C-CWP1	CHILLED WATER PUMP 1	10	11.639								•	202	Existing Penthouse					•		•					DIV 26	•								•				DIV 26				DIV 23		3	10	10	0.75	
137C-CWP2	CHILLED WATER PUMP 2	10	11.639								•	202	Existing Penthouse					•		•					DIV 26	•								•				DIV 26				DIV 23		3	10	10	0.75	
137C-EF1	EXHAUST FAN 1	0.25	0.696	•										0		•								1C111A		DIV 26			•							•		DIV 23				DIV 23	2	2	12	12	0.75	
137C-EF2	EXHAUST FAN 2	0.5	1.176	•										EX		•								1C111A		EX			•							•		DIV 23				DIV 23	2	2	12	12	0.75	
137C-EF3	EXHAUST FAN 3	1	1.441			•								0		•								310		DIV 26	•									•		DIV 23				DIV 23		3	12	12	0.75	
137C-EF4	EXHAUST FAN 4	1	3.531	•		•								0		•								1C111A		DIV 26			•							•		DIV 23				DIV 23		3	12	12	0.75	
137C-EF5	EXHAUST FAN 5	0.5	1.176	•										0		•								1C111A		DIV 26			•							•		DIV 23				DIV 23	2	2	12	12	0.75	
137C-EF6	EXHAUST FAN 6	0.25	0.696	•										0		•								1C111A		DIV 26			•							•		DIV 23				DIV 23	2	2	12	12	0.75	
137C-EF7	EXHAUST FAN 7	0.25	0.696	•										0		•								ELEC.		DIV 26			•							•		DIV 23				DIV 23	1	2	12	12	0.75	
137C-EF8	EXHAUST FAN 8	.5	1.176	•										0		•								1C111A		DIV 26			•							•		DIV 23				DIV 23	2	2	12	12	.75	
137C-EF9	EXHAUST FAN 9	.75	1.117			•								0		•								1C111A		DIV 26	•							•				DIV 26				DIV 23		3	12	12	.75	
137C-HWP1	HOT WATER PUMP 1	7.5	9.145								•	202	Existing Penthouse					•		•					DIV 26	•							•					DIV 26				DIV 23		3	12	12	0.75	
137C-HWP2	HOT WATER PUMP 1	7.5	9.145								•	202	Existing Penthouse					•		•					DIV 26	•							•					DIV 26				DIV 23		3	12	12	0.75	

NOTES:
1. INTERLOCK WITH HOOD CONTROL PANEL. COORDINATE EXACT REQUIREMENTS WITH DIV. 23.
2. WIRE THROUGH SPEED CONTROLLER (BY DIV. 23).

Revisions | Date

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Drawing Title: SINGLE LINE DIAGRAM

Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Date: 04/26/2013

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RDC/JPA Project No. 11004.00

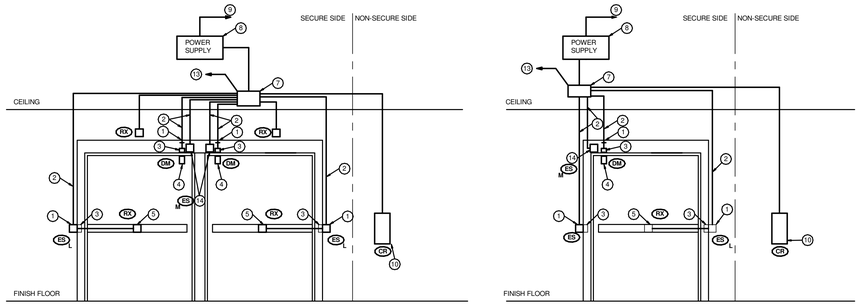
Building Number: 137
Checked: LLC
Drawn: MSG

Location: Hampton, VA.

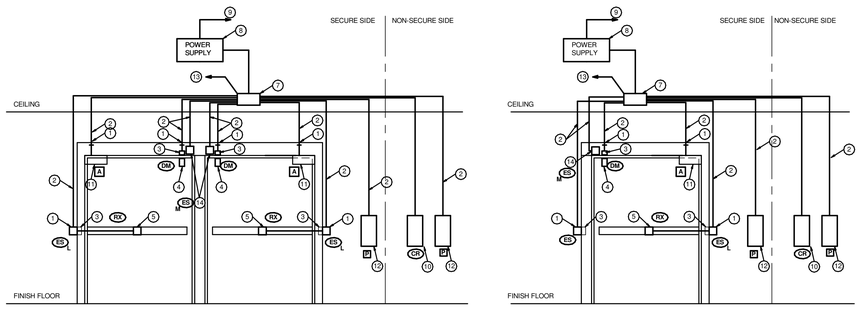
Drawing Number: 137-E503

Dwg. 116 of 135

Department of Veterans Affairs



CONTROLLED DOOR DETAIL - CARD READER ONLY



CONTROLLED DOOR DETAIL - CARD READER WITH OPERATOR

○ DETAIL NOTES

1. PROVIDE 0.5" CONDUIT CONNECTION INTO DOOR FRAME.
2. PROVIDE 0.75" CONDUIT TO LOCAL SECURITY JUNCTION BOX ABOVE ACCESSIBLE CEILING.
3. PROVIDE MORTISE BOX IN FRAME FOR SECURITY/DOOR HARDWARE EQUIPMENT AND WIRING.
4. SECURITY SYSTEM DOOR POSITION SWITCH.
5. ELECTRONIC DOOR HARDWARE WITH INTEGRAL REQUEST TO EXIT.
6. MULLION MOUNTED CARD READER WHERE INDICATED ON PLANS.
7. SECURITY SYSTEM JUNCTION BOX ABOVE ACCESSIBLE CEILING NEAR CONTROLLED DOOR.
8. LOCAL POWER SUPPLY FOR ELECTRONIC DOOR HARDWARE ABOVE ACCESSIBLE CEILING NEAR CONTROLLED DOOR.
9. 120V EMERGENCY BRANCH CIRCUIT CONNECTION TO LOCAL POWER SUPPLY.
10. WALL MOUNTED CARD READER (WHERE INDICATED ON PLANS), BOX, CONDUIT AND WIRING (CONTINENTAL XF2100-PIV. "K"=CONTINENTAL XF2110-PIV).
11. HANDICAP AUTOMATIC DOOR OPERATOR.
12. WALL MOUNTED PUSHPLATE FOR HANDICAP DOOR OPERATOR INCLUDING ROUGH-IN BOX AND WIRING.
13. SECURITY/ACCESS CONTROL SYSTEM DOOR CONTROL WIRING.
14. MAGNETIC DOOR LOCK.

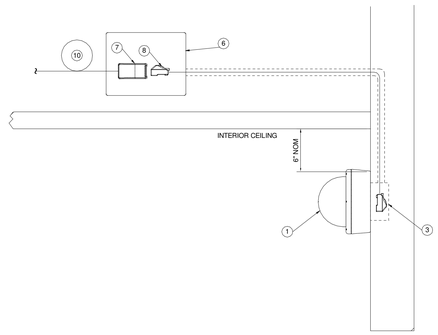
CAMERA SCHEDULE

NOTES:
1. REFER TO POLE DETAIL ON SHEET 137-E201

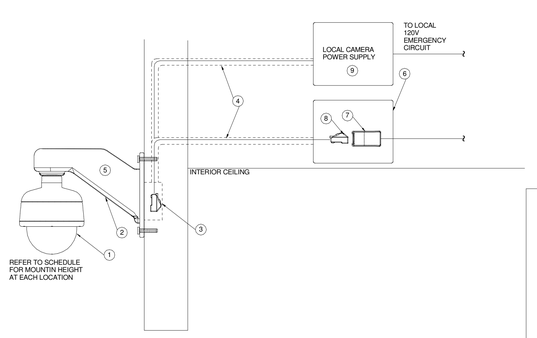
OPTIONS LEGEND: W - WIDE DYNAMIC RANGE; L - LOW LIGHT; D - DAY/NIGHT

GENERAL				SPECIFICATIONS														TYPE AND MOUNTING							
LOCATION				CAMERA TYPE					ANALYTICS		POWER			CABLE		INDOOR			OUTDOOR						
MARK	ROOM NO.	ROOM NAME	TECH CLOSET NO.	OPTION	LENS (mm)	RESOLUTION	PTZ	IP	CAM	SERV	POE	24V	120V	UTP	COAX	CLG RECESSED	CLG SURFACE	WALL SURFACE	CLG RECESSED	CLG SURFACE	POLE	WALL SURFACE	MOUNTING HEIGHT	SEE NOTE
1	1C15	Corridor	TR-1		18X	1.3MP	•	•			•			•		•								
2	1C8	Corridor	TR-1		18X	1.3MP	•	•			•			•		•								
3	1C5	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
4	1C1	Corridor	TR-1		18X	1.3MP	•	•			•			•		•								
5	1C11	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
6	CA25	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
7	1C14	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
8	1C15	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
9	1C14	Corridor	TR-1		18X	1.3MP	•	•			•			•		•								
10	1C15	Corridor	TR-1		18X	1.3MP	•	•			•			•		•								
11	1C10	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
12	1C2	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
13	1C3	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
14			TR-1	W	3-8	1.3MP		•			•			•		•								
15	CA24	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
16	1C6	Corridor	TR-1		18X	1.3MP	•	•			•			•		•								
17	EXT	EXTERIOR	TR-1		25x	1.3MP	•	•			•		•		•						•		22' - 0"	1
18	1C13	Corridor	TR-1	W	3-8	1.3MP		•			•			•		•								
19	1C7	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
20	1C5	Corridor	TR-1		18X	1.3MP	•	•			•			•		•								
21	1C7	Corridor	TR-1		18X	1.3MP	•	•			•			•		•								
22	1C9	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
23	1C7	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
24	1C5	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
25	CD1	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
26			TR-1	D	3-8	1.3MP		•			•	•		•				•					8' - 0"	
27			TR-1	D	3-8	1.3MP		•			•	•		•				•					8' - 0"	
28			TR-1	D	3-8	1.3MP		•			•	•		•				•					8' - 0"	
29			TR-1	D	3-8	1.3MP		•			•	•		•				•					8' - 0"	
30			TR-1	D	3-8	1.3MP		•			•	•		•				•					8' - 0"	
31			TR-1	D	3-8	1.3MP		•			•			•		•								
32	1C2	Corridor	TR-1		3-8	1.3MP		•			•			•		•								
33	1C10	Corridor	TR-1		3-8	1.3MP		•			•			•		•								

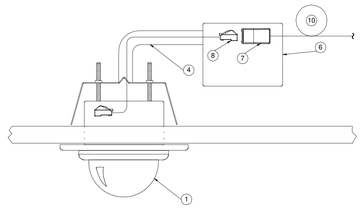
1 SECURITY DETAILS



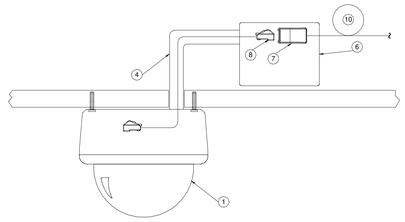
INTERIOR - WALL MOUNTED



EXTERIOR - WALL MOUNTED



INTERIOR - CEILING RECESSED

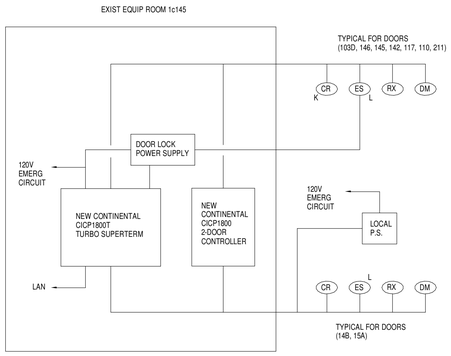


INTERIOR - CEILING SURFACE

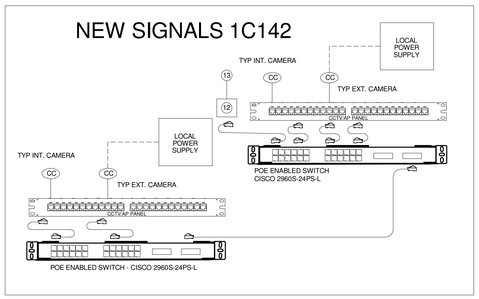
2 CCTV SYSTEM DETAILS

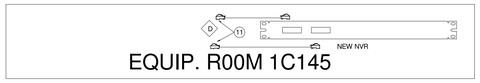
○ CAMERA MOUNTING DETAIL NOTES

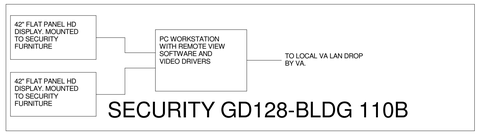
1. CAMERA AS SHOWN ON PLANS. REFER TO CAMERA SCHEDULE FOR ADDITIONAL INFORMATION.
2. WALL MOUNTED PENDANT ARM
3. 1-GANG BOX FOR MOUNTING OF CAMERA
4. 0.75" CONDUIT TO LOCAL JUNCTION BOX ABOVE ACCESSIBLE CEILING.
5. WIRES TO BE ROUTED THROUGH PENDANT ARM INTO CAMERA.
6. LOCAL JUNCTION BOX ABOVE ACCESSIBLE CEILING
7. SURFACE MOUNTED 1-DATA OUTLET TO BE PROVIDED IN LOCAL JUNCTION BOX
8. PROVIDE PATCH CABLE CONNECTION FROM OUTLET IN JUNCTION BOX TO CAMERA
9. LOCAL LOW VOLTAGE POWER SUPPLY FOR EXTERIOR CAMERAS WHERE POE POWER IS NOT SUFFICIENT FOR CAMERA OPERATION.
10. PROVIDE 20' COIL OF DATA DROP, MANAGED ABOVE CEILING TO FACILITATE MINOR RELOCATIONS OF CAMERA.
11. PATCH 1 JACK IN THE SIGNALS CLOSET TO THE VA LAN. PATCH 1 JACK TO THE CCTV POE SWITCHES.
12. IP ENCODER FOR VIDEO/PTZ CONTROL OF REMOTE POLE MOUNTED ANALOG PTZ CAMERA.
13. RG-6 COAX FROM UL PROTECTOR FOR VIDEO/PTZ CONTROL OF EXTERIOR POLE MOUNTED CAMERA.



3 PACS SYSTEM DIAGRAM







Revisions	Date

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Drawing Title: SECURITY DETAILS

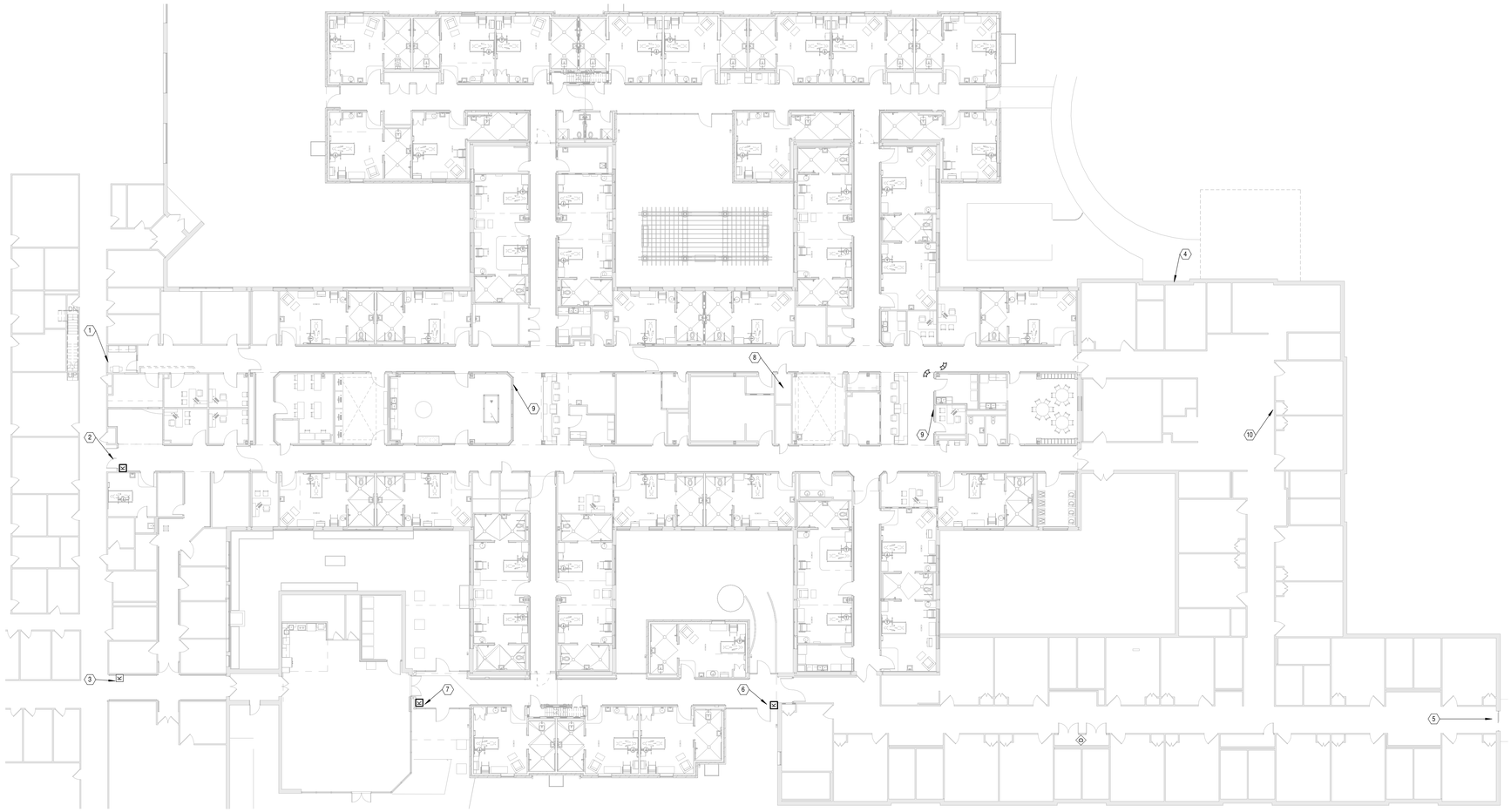
Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: JDK
Drawn: JDK
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-E504
Dwg. 117 of 135

Department of Veterans Affairs



1 **First Floor Overal - Graphical Annunciator**
1/16" = 1'-0"

PLAN NOTES

1. EXISTING PATIENT WANDERER POINT 1 TO BE RELOCATED TO DOOR 13A. PROVIDE POINT WITH NEW RECEIVER LOCALLY AND NEW CONTROLLER IN EQUIPMENT ROOM 1C145. CONNECT NEW CONTORLLER TO NEW HUB AND TO EACH OF THREE (3) GRAPHICAL DISPLAY PANELS.
2. EXISTING PATIENT WNADERER POINT 2 MODIFIED TO ACCOMODATE NEW CONSTRUCITON AT THIS LOCATION. PROVIDE POINT WITH NEW RECEIVER LOCALLY AND NEW CONTROLLER IN EQUIPMENT ROOM 1C145. CONNECT NEW CONTORLLER TO NEW HUB AND TO EACH OF THREE (3) GRAPHICAL DISPLAY PANELS.
3. EXISTING PATIENT WANDERER POINT 3. PROVIDE POINT WITH NEW RECEIVER LOCALLY AND NEW CONTROLLER IN EQUIPMENT ROOM 1C145. CONNECT NEW CONTORLLER TO NEW HUB AND TO EACH OF THREE (3) GRAPHICAL DISPLAY PANELS.
4. EXISTING PATIENT WANDERER POINT 4. PROVIDE POINT WITH NEW RECEIVER LOCALLY AND NEW CONTROLLER IN EQUIPMENT ROOM 1C145. CONNECT NEW CONTORLLER TO NEW HUB AND TO EACH OF THREE (3) GRAPHICAL DISPLAY PANELS.
5. EXISTING PATIENT WANDERER POINT 5. PROVIDE POINT WITH NEW RECEIVER LOCALLY AND NEW CONTROLLER IN EQUIPMENT ROOM 1C145. CONNECT NEW CONTORLLER TO NEW HUB AND TO EACH OF THREE (3) GRAPHICAL DISPLAY PANELS.
6. EXISTING PATIENT WANDERER POINT 6 RELOCATED TO NEW POSITION AT DOOR 13E. PROVIDE POINT WITH NEW RECEIVER LOCALLY AND NEW CONTROLLER IN EQUIPMENT ROOM 1C145. CONNECT NEW CONTORLLER TO NEW HUB AND TO EACH OF THREE (3) GRAPHICAL DISPLAY PANELS.
7. EXISTING PATIENT WANDERER POINT 1 FIELD DEVICES RELOCATED TO THIS DOOR.
8. PROVIDE NEW PATIENT WANDERER HUB AND DOOR CONTROLLERS (6 CONTROLLERS TOTAL) AT THIS LOCATION. RECONNECT SYSTEM INCLUDING ALL WIRING AND NETWORK CONNECTIONS.
9. PROVIDE NEW PATIENT WANDERER GRAPHICAL DISPLAY PANEL AT THIS LOCATION. INSTALLATION INCLUDING 1-GANG BOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING, 22AWG/3C. CABLE TO EACH OF SIX (6) CONTROLLERS (ROOM 1C145).
10. REPLACE EXISTING PATIENT WANDERER GRAPHICAL DISPLAY PANEL AT THIS LOCATION AND REPLACE/EXTEND CABLING AS REQUIRED TO ACCOMODATE NEW CONTROL POINT POSITIONS.

Revisions	Date

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Drawing Title
PATIENT WANDERER-GRAPHICAL PLANS

Approved: Project Director

Project Title
Hampton VA, VAMC
Renovate / Expand SCI, Phase II,
590-911

Building Number: 137
Checked: Approver
Drawn: Designer
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-E505
Dwg. of 135

Department of Veterans Affairs

Panel: SCL1(L)

Location: Electric 1C9A | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Patient Rec.	20 A	1	1260	900 VA					1	20 A	Kitchen	2
3	Patient Rec.	20 A	1			1080	1080			1	20 A	Patient Rec.	4
5	Patient Rec.	20 A	1					1260	540 VA	1	20 A	EX. Rec.	6
7	EX. Rec.	20 A	1	720 VA	900 VA					1	20 A	Receptacle	8
9	Receptacle	20 A	1			1080	1080			1	20 A	EX. Rec.	10
11	Patient Rec.	20 A	1					1260	1080	1	20 A	Patient Rec.	12
13	PBPU	20 A	1	540 VA	540 VA					1	20 A	PBPU	14
15	Patient Rec.	20 A	1			1080	540 VA			1	20 A	PBPU	16
17	Micro	20 A	1					1500	540 VA	1	20 A	PBPU	18
19	PBPU	20 A	1	540 VA	540 VA					1	20 A	PBPU	20
21	Receptacle	20 A	1			1440	540 VA			1	20 A	Receptacle	22
23	Patient Ltg.	20 A	1					665 VA	1080	1	20 A	Patient Rec.	24
25	PBPU	20 A	1	540 VA	540 VA					1	20 A	PBPU	26
27	PBPU	20 A	1			540 VA	1260			1	20 A	Patient Rec.	28
29	PBPU	20 A	1					540 VA	540 VA	1	20 A	Receptacle	30
31	EXIST	20 A	1	0 VA	0 VA					1	20 A	Fut - Spare	32
33	EXIST	20 A	1			0 VA	0 VA			1	20 A	Fut - Spare	34
35	EXIST	20 A	2					0 VA	0 VA	2	100	EXIST	36
37	--	--	--	0 VA	0 VA					--	--	--	38
39	EXIST	60 A	3			0 VA	0 VA			--	--	Space	40
41	--	--	--					0 VA	0 VA	--	--	Space	42
43	--	--	--	0 VA	0 VA					--	--	Space	44
	Total Load:			7.02 kVA		9.72 kVA		9.01 kVA					

Notes: EXISTING PANEL, SQUARE D - NQOB

TOTAL CONNECTED		ESTIMATED DEMAND
25.75 kVA		16KVAD (44A)

Panel: SCL1(R)

Location: Electric 1C9A | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PBPU	20 A	1	540 VA	1080					1	20 A	Receptacle	2
3	PBPU	20 A	1			540 VA	504 VA			1	20 A	Patient Ltg.	4
5	Receptacle	20 A	1					1080	0 VA	1	20 A	Fut. Spare	6
7	Receptacle	20 A	1	1620	0 VA					1	20 A	Spare	8
9	EX. Rec.	20 A	1			1080	0 VA			1	20 A	Spare	10
11	Receptacle	20 A	1					540 VA	540 VA	1	30 A	EX. Rec.	12
13	EX. Rec.	30 A	1	540 VA	0 VA					1	20 A	EX. Rec.	14
15	Ex. Ltg.	20 A	1			600 VA	0 VA			1	20 A	EX. EF6	16
17	Ex. Ltg.	20 A	1					192 VA	0 VA	1	20 A	EX. Heat	18
19	Fut. Spare	20 A	1	0 VA	0 VA					1	20 A	EX. EF5	20
21	Spare	20 A	1			0 VA	0 VA			2	30 A	Spare(Dryer)	22
23	Receptacle	20 A	1					1440	0 VA	--	--	--	24
25	Corridor Ltg.	20 A	1	1736	0 VA					1	20 A	EX. EF1	26
27	Lighting	20 A	1			1011	0 VA			1	20 A	Spare	28
29	Corridor Ltg.	20 A	1					1648	0 VA	1	20 A	EX. Rec.	30
31	Space	--	--	0 VA	0 VA					2	30 A	Spare(Dryer)	32
33	Space	--	--			0 VA	0 VA			--	--	--	34
35	Space	--	--					0 VA	0 VA	2	30 A	Spare(Dryer)	36
37	Space	--	--	0 VA	0 VA					--	--	--	38
39	Space	--	--			0 VA	0 VA			2	50 A	EX.	40
41	Space	--	--					0 VA	0 VA	--	--	--	42
43	Space	--	--	0 VA	0 VA					--	--	Space	44
	Total Load:			5.52 kVA		3.74 kVA		5.44 kVA					

Notes: EXISTING PANEL, SQUARE D-NQOB

TOTAL CONNECTED		ESTIMATED DEMAND
14.69 kVA		10 KVAD (28A)

Panel: SCL1A

Location: Elec. 1C216 | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type: MB W/FTL
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 150 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	TVs	20 A	1	900 VA	540 VA					1	20 A	PBPU	2
3	PBPU	20 A	1			540 VA	540 VA			1	20 A	PBPU	4
5	PBPU	20 A	1					540 VA	540 VA	1	20 A	PBPU	6
7	PBPU	20 A	1	540 VA	540 VA					1	20 A	PBPU	8
9	PBPU	20 A	1			540 VA	540 VA			1	20 A	PBPU	10
11	PBPU	20 A	1					540 VA	540 VA	1	20 A	PBPU	12
13	PBPU	20 A	1	540 VA	900 VA					1	20 A	Patient Rec.	14
15	Patient Rec.	20 A	1			900 VA	900 VA			1	20 A	Patient Rec.	16
17	Patient Rec.	20 A	1					900 VA	900 VA	1	20 A	Patient Rec.	18
19	Patient Rec.	20 A	1	900 VA	900 VA					1	20 A	Patient Rec.	20
21	Patient Rec.	20 A	1			900 VA	900 VA			1	20 A	Patient Rec.	22
23	Patient Rec.	20 A	1					900 VA	900 VA	1	20 A	Patient Rec.	24
25	Patient Rec.	20 A	1	900 VA	576 VA					1	20 A	Patient Ltg.	26
27	Patient Ltg.	20 A	1			576 VA	944 VA			1	20 A	Corridor Ltg.	28
29	Corridor Ltg.	20 A	1					1234	1248	1	20 A	Courtyard Ltg.	30
31	Receptacle	20 A	1	720 VA	540 VA					1	20 A	Receptacle	32
33	Receptacle	20 A	1			720 VA	720 VA			1	20 A	TVs	34
35	Spare	20 A	1					0 VA	540 VA	1	20 A	TVs	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
	Total Load:			8.50 kVA		8.72 kVA		8.78 kVA					

Notes: NEW PANEL, PROVIDE 150A MAIN BREAKER AND FEED THROUGH LUGS.

TOTAL CONNECTED		ESTIMATED DEMAND
26.00 kVA		15 KVAD (42A)

Panel: SCL2(L)

Location: Data/Elec. 1C111A | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type: MB W/FTL
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Patient Rec.	20 A	1	900 VA	720 VA					1	20 A	EX. Rec.	2
3	EX. Rec.	20 A	1			1080	1260			1	20 A	Patient Rec.	4
5	Patient Rec.	20 A	1					1440	1080	1	20 A	Patient Rec.	6
7	Patient Rec.	20 A	1	1260	540 VA					1	20 A	EX. Rec.	8
9	EX. Rec.	20 A	1			720 VA	1260			1	20 A	Patient Rec.	10
11	Patient Rec.	20 A	1					1260	1260	1	20 A	Patient Rec.	12
13	Patient Rec.	20 A	1	1080	540 VA					1	20 A	PBPU	14
15	PBPU	20 A	1			540 VA	540 VA			1	20 A	PBPU	16
17	PBPU	20 A	1					540 VA	1260	1	20 A	Patient Rec.	18
19	Patient Rec.	20 A	1	1080	540 VA					1	20 A	PBPU	20
21	PBPU	20 A	1			540 VA	540 VA			1	20 A	PBPU	22
23	Fut. Spare	20 A	1					0 VA	1080	1	20 A	Patient Rec.	24
25	Fut. Spare	20 A	1	0 VA	540 VA					1	20 A	PBPU	26
27	PBPU	20 A	1			540 VA	1200			1	20 A	Washer	28
29	PBPU	20 A	1					540 VA	1200	1	20 A	Washer	30
31	PBPU	20 A	1	540 VA	540 VA					1	20 A	PBPU	32
33	Patient Rec.	20 A	1			1260	0 VA			2	50 A	Fut. Spare	34
35	EX Receptacle	20 A	1					180 VA	0 VA	--	--	--	36
37	EX Receptacle	20 A	1	180 VA	0 VA					1	20 A	Fut. Spare	38
39	EX. Rec.	20 A	1			1980	540 VA			1	20 A	PBPU	40
41	EX. Rec.	20 A	1					0 VA	1500	1	20 A	Micro	42
43	EX. Rec.	20 A	1	0 VA	180 VA					1	20 A	Receptacle	44
	Total Load:			8.64 kVA		12.00 kVA		11.34 kVA					

Notes: EXISTING PANEL, SQUARE D NQOB.

TOTAL CONNECTED		ESTIMATED DEMAND
31.98 kVA		20 KVAD (56A)

Panel: SCL2(R)

Location: Data/Elec. 1C111A | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type: MB W/FTL
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EX. REC.	20 A	1	0 VA	0 VA					1	20 A	EX. CKT.	2
3	EX. REC.	20 A	1			0 VA	0 VA			1	20 A	EX. CKT.	4
5	EX. REC.	20 A	1					0 VA	0 VA	1	20 A	EX. CKT.	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	EX. REC.	20 A	1					1620	540 VA	1	20 A	PBPU	12
13	EX. REC.	20 A	1	540 VA	360 VA					1	20 A	Receptacle	14
15	EX. CKT.	20 A	1			0 VA	180 VA			1	20 A	Ex. WC	16
17	EX. CKT.	20 A	1					0 VA	1440	1	20 A	EX. Rec.	18
19	EX. CKT.	30 A	1	0 VA	0 VA					1	30 A	EX. REC.	20
21	Patient Rec.	20 A	1			1260	0 VA			1	20 A	FUT. SPARE	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	FUT. SPARE	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	FUT. SPARE	26
27	EX. CKT.	20 A	1			0 VA	0 VA			1	20 A	FUT. SPARE	28
29	EX. CKT.	20 A	1					0 VA	0 VA	1	20 A	EX. CKT.	30
31	EX. CKT.	20 A	1	0 VA	0 VA					1	20 A	EX. CKT.	32
33	EX. CKT.	20 A	1			0 VA	0 VA			1	20 A	EX. CKT.	34
35	EX. CKT.	20 A	1					0 VA	0 VA	1	20 A	EX. CKT.	36
37	EX. CKT.	20 A	1	0 VA	0 VA					1	20 A	EX. CKT.	38
39	EX. CKT.	20 A	1			0 VA	0 VA			1	20 A	EX. CKT.	40
41	EX. CKT.	20 A	1					0 VA	0 VA	1	20 A	EX. CKT.	42
43	EX. CKT.	20 A	1	0 VA	0 VA					1	20 A	EX. CKT.	44
	Total Load:			0.90 kVA		1.44 kVA		3.60 kVA					

Notes: EXISTING PANEL, SQUARE D - NQOB

TOTAL CONNECTED		ESTIMATED DEMAND
5.94 kVA		5 KVAD (14A)

Panel: SCL2A

Location: Electric 1C143 | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 150 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Micro	20 A	1	1500	360 VA					1	20 A	Receptacle	2
3	Dryer	30 A	2			1500	1500			2	30 A	Dryer	4
5	--	--	--					1500	1500	--	--	--	6
7	Washer	20 A	1	1200	720 VA					1	20 A	Receptacle	8
9	Patient Ltg.	20 A	1			811 VA	1856			1	20 A	Corridor Ltg.	10
11	Corridor Ltg.	20 A	1					1918	631 VA	1	20 A	Lighting	12
13	Micro	20 A	1	1500	900 VA					1	20 A	Receptacle	14
15	Receptacle	20 A	1			540 VA	1210			1	20 A	Corridor Ltg.	16
17	Courtyard Ltg.	20 A	1					64 VA	540 VA	1	20 A	PBPU	18
19	PBPU	20 A	1	540 VA	540 VA					1	20 A	PBPU	20
21	PBPU	20 A	1			540 VA	1080			1	20 A	Patient Rec.	22
23	Patient Rec.	20 A	1					1080	1080	1	20 A	Patient Rec.	24
25	Patient Rec.	20 A	1	1080	360 VA					1	20 A	Receptacle	26
27	Dryer	30 A	2			1500	1200			1	20 A	Washer	28
29	--	--	--					1500	384 VA	1	20 A	Patient Ltg.	30
31	Dryer	30 A	2	1500	0 VA					1	20 A	Spare	32
33	--	--	--			1500	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
	Total Load:			10.20 kVA		13.24 kVA		10.20 kVA					

Notes: NEW PANEL, PROVIDE 150A MAIN BREAKER AND FEED THROUGH LUGS.

TOTAL CONNECTED		ESTIMATED DEMAND
33.63 kVA		17 KVAD (47A)

Panel: C2A

Location: Electric 1C143 | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 480/277 Wye-3PH-4W | Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	137-AHU4S	60 A	3	9422	2106					3	20 A	137-AHU4R	2
3	--	--	--			9422	2106			--	--	--	4
5	--	--	--					9422	2106	--	--	--	6
7	137-AHU3S	30 A	3	3880	1330					3	20 A	137-AHU3R	8
9	--	--	--			3880	1330			--	--	--	10
11	--	--	--					3880	1330	--	--	--	12
13	Spare	20 A	3	0 VA	0 VA					3	30 A	Spare	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	Space	--	--	0 VA	0 VA					--	--	Space	20
21	Space	--	--			0 VA	0 VA			--	--	Space	22
23	Space	--	--					0 VA	0 VA	--	--	Space	24
25	Space	--	--	0 VA	0 VA					--	--	Space	26
27	Space	--	--			0 VA	0 VA			--	--	Space	28
29	Space	--	--					0 VA	0 VA	--	--	Space	30
31	Space	--	--	0 VA	0 VA					--	--	Space	32
33	Space	--	--			0 VA	0 VA			--	--	Space	34
35	Space	--	--					0 VA	0 VA	--	--	Space	36
37	Space	--	--	0 VA	0 VA					--	--	Space	38
39	Space	--	--			0 VA	0 VA			--	--	Space	40
41	Space	--	--					0 VA	0 VA	--	--	Space	42
	Total Load:			16.74 kVA		16.74 kVA		16.74 kVA					

Notes: NEW PANEL

TOTAL CONNECTED		ESTIMATED DEMAND
50.22 kVA		45 KVAD (54A)

Panel: SCC2

Location: Data/Elec. 1C111A | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EX. LTG	20 A	1	0 VA	0 VA					1	20 A	FUT. SPARE	2
3	EX. MED GAS	20 A	1			0 VA	0 VA			1	20 A	FUT. SPARE	4
5	EX. NCT	20 A	1					0 VA	0 VA	1	20 A	FUT. SPARE	6
7	PBPU	20 A	1	720 VA	0 VA					1	20 A	FUT. SPARE	8
9	PBPU	20 A	1			720 VA	720 VA			1	20 A	PBPU	10
11	PBPU	20 A	1					720 VA	720 VA	1	20 A	PBPU	12
13	EX. CKT	20 A	1	0 VA	720 VA					1	20 A	PBPU	14
15	EX. CKT	20 A	1			0 VA	720 VA			1	20 A	PBPU	16
17	EX. CKT	20 A	1					0 VA	720 VA	1	20 A	PBPU	18
19	FUT. SPARE	20 A	1	0 VA	0 VA					1	20 A	EX. CKT	20
21	FUT. SPARE	20 A	1			0 VA	0 VA			1	20 A	EX. CKT	22
23	PBPU	20 A	1					720 VA	0 VA	1	20 A	EX. CKT	24
25	PBPU	20 A	1	720 VA	720 VA					1	20 A	PBPU	26
27	PBPU	20 A	1			720 VA	0 VA			--	--	Space	28
29	PBPU	20 A	1					720 VA	0 VA	--	--	Space	30
	Total Load:			2.88 kVA		2.88 kVA		3.60 kVA					

Notes: EXISTING PANEL, CUTLER HAMMER PRL1a.

TOTAL CONNECTED		ESTIMATED DEMAND
9.36 kVA		8 KVAD (22A)

Panel: SCEQ1

Location: Electric 1C9A | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Fut. Spare	20 A	1	0 VA	0 VA					1	20 A	Fut. Spare	2
3	Fut. Spare	20 A	1			0 VA	0 VA			1	20 A	Fut. Spare	4
5	Fut. Spare	20 A	1					0 VA	0 VA	1	20 A	Fut. Spare	6
7	Fut. Spare	20 A	1	0 VA	0 VA					1	20 A	Fut. Spare	8
9	Fut. Spare	20 A	1			0 VA	0 VA			1	20 A	Fut. Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Space	--	--			0 VA	480 VA			3	20 A	137C-EF3	16
17	Space	--	--					0 VA	480 VA	--	--	--	18
19	Space	--	--	0 VA	480 VA					--	--	--	20
21	Space	--	--			0 VA	0 VA			--	--	Space	22
23	Space	--	--					0 VA	0 VA	--	--	Space	24
	Total Load:			0.48 kVA		0.48 kVA		0.48 kVA					

Notes: EXISTING PANEL

TOTAL CONNECTED		ESTIMATED DEMAND
1.44 kVA		2 KVAD (6A)

Panel: SCC3A

Location: Elec. 1C216 | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type: MB W/FTL
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Crawl Ltg	20 A	1	260 VA	338 VA					1	20 A	Crawl Ltg	2
3	PBPU	20 A	1			720 VA	720 VA			1	20 A	PBPU	4
5	PBPU	20 A	1					720 VA	720 VA	1	20 A	PBPU	6
7	PBPU	20 A	1	720 VA	720 VA					1	20 A	PBPU	8
9	PBPU	20 A	1			720 VA	720 VA			1	20 A	PBPU	10
11	PBPU	20 A	1					720 VA	720 VA	1	20 A	PBPU	12
13	PBPU	20 A	1	720 VA	720 VA					1	20 A	PBPU	14
15	Power	20 A	1			180 VA	360 VA			1	20 A	Door Alarm	16
17	Patient Ltg.	20 A	1					1364	1356	1	20 A	Patient Ltg.	18
19	Patient Ltg.	20 A	1	1236	1356					1	20 A	Patient Ltg.	20
21	Lift/Lav	20 A	1			1260	0 VA			1	20 A	Lift/Lav	22
23	Receptacle	20 A	1					540 VA	900 VA	1	20 A	Receptacle	24
25	Receptacle	20 A	1	720 VA	720 VA					1	20 A	Receptacle	26
27	Lift/Lav	20 A	1			840 VA	1260			1	20 A	Lift/Lav	28
29	Lift/Lav	20 A	1					1320	840 VA	1	20 A	Lift/Lav	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	SCC3B	100	3	11159	0 VA					1	20 A	Spare	38
39	--	--	--			13588	0 VA			1	20 A	Spare	40
41	--	--	--					13672	0 VA	1	20 A	Spare	42
	Total Load:			18.67 kVA		20.37 kVA		22.87 kVA					

Notes: NEW PANEL, PROVIDE 150A MAIN BREAKER AND 100A/3P S.F.B. FOR SCC3B.

TOTAL CONNECTED		ESTIMATED DEMAND
61.91 kVA		41 KVAD (113A)

Panel: SCC3B

Location: Electric 1C143 | Mounting: Surface | A.I.C. Rating:
Supply From: SCC3A | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PBPU	20 A	1	720 VA	720 VA					1	20 A	PBPU	2
3	PBPU	20 A	1			720 VA	720 VA			1	20 A	PBPU	4
5	Ice	30 A	1					800 VA	1200	1	20 A	Refrig.	6
7	Data	20 A	1	360 VA	720 VA					1	20 A	Data	8
9	Patient Ltg.	20 A	1			824 VA	824 VA			1	20 A	Patient Ltg.	10
11	Patient Ltg.	20 A	1					1602	1448	1	20 A	Patient Ltg.	12
13	Patient Ltg.	20 A	1	1472	1407					1	20 A	Patient Ltg.	14
15	Patient Ltg.	20 A	1			540 VA	1660			1	20 A	Lighting	16
17	Lift/Lav	20 A	1					1080	1620	1	20 A	Lift/Lav	18
19	Receptacle	20 A	1	900 VA	1200					1	20 A	Refrig.	20
21	Receptacle	20 A	1			360 VA	1200			1	20 A	Refrig	22
23	Receptacle	20 A	1					720 VA	800 VA	1	30 A	Ice	24
25	Lift/Lav	20 A	1	1500	1260					1	20 A	Receptacle	26
27	Lift/Lav	20 A	1			1680	720 VA			1	20 A	Receptacle	28
29	Crawl Ltg.	20 A	1					182 VA	720 VA	1	20 A	Receptacle	30
31	Receptacle	20 A	1	360 VA	540 VA					1	20 A	Receptacle	32
33	Lift/Lav	20 A	1			840 VA	1000			1	20 A	Receptacle	34
35	Spare	20 A	1					0 VA	1000	1	20 A	Receptacle	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	2500			2	30 A	Data	40
41	Spare	20 A	1					0 VA	2500	--	--	--	42
	Total Load:			11.16 kVA		13.59 kVA		13.67 kVA					

Notes: NEW PANEL

TOTAL CONNECTED		ESTIMATED DEMAND
38.42 kVA		25 KVAD (69A)

Panel: DLEQ3

Location: Elec. D100D | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Cooktop *	30 A	2	1750	1833					3	30 A	Oven *	2
3	--	--	--			1750	1833			--	--	--	4
5	Dishwasher	50 A	2					4035	1833	--	--	--	6
7	--	--	--	4035	2700					3	30 A	Retherm	8
9	Retherm	30 A	3			2700	2700			--	--	--	10
11	--	--	--					2700	2700	--	--	--	12
13	--	--	--	2700	0 VA					1	0 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	0 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	0 A	Spare	18
19	Spare	20 A	3	0 VA	0 VA					--	--	Space	20
21	--	--	--			0 VA	0 VA			--	--	Space	22
23	--	--	--					0 VA	0 VA	--	--	Space	24
25	Spare	20 A	1	0 VA	0 VA					--	--	Space	26
27	Spare	20 A	1			0 VA	0 VA			--	--	Space	28
29	Spare	20 A	1					0 VA	0 VA	--	--	Space	30
31	Spare	20 A	1	0 VA	0 VA					--	--	Space	32
33	Spare	20 A	1			0 VA	0 VA			--	--	Space	34
35	Spare	20 A	1					0 VA	0 VA	--	--	Space	36
37	Spare	20 A	1	0 VA	0 VA					--	--	Space	38
39	Spare	20 A	1			0 VA	0 VA			--	--	Space	40
41	Spare	20 A	1					0 VA	0 VA	--	--	Space	42
	Total Load:			13.02 kVA		8.98 kVA		11.27 kVA					

Notes: NEW PANEL, PROVIDE 100A MAIN BREAKER, *PROVIDE SHUNT-TRIP BREAKERS FOR OVEN/COOKTOP

TOTAL CONNECTED		ESTIMATED DEMAND
33.27 kVA		25 KVAD (69A)

Panel: SCC1

Location: Nour. Kitch. 1C138 | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Lift/Lav	20 A	1	840 VA	720 VA					1	20 A	PBPU	2
3	Exist Ckt	20 A	1			0 VA	0 VA			1	20 A	Exist Ckt	4
5	Exist Ckt	20 A	1					0 VA	720 VA	1	20 A	EX. Rec.	6
7	Exist Ckt	20 A	1	0 VA	0 VA					1	0 A	Exist Ckt	8
9	PBPU	20 A	1			720 VA	0 VA			1	20 A	Exist Ckt	10
11	PBPU	20 A	1					720 VA	720 VA	1	20 A	PBPU	12
13	PBPU	20 A	1	720 VA	720 VA					1	20 A	PBPU	14
15	PBPU	20 A	1			720 VA	720 VA			1	20 A	PBPU	16
17	PBPU	20 A	1					720 VA	720 VA	1	20 A	PBPU	18
19	PBPU	20 A	1	720 VA	720 VA					1	20 A	PBPU	20
21	PBPU	20 A	1			720 VA	1620			1	20 A	Lift/Lav	22
23	Lift/Lav	20 A	1					1200	720 VA	1	20 A	Lift/Lav	24
25	Receptacle	20 A	1	360 VA	944 VA					1	20 A	Room 1C133,	26
27	Ice	30 A	1			800 VA	780 VA			1	20 A	Lift/Lav	28
29	Receptacle	20 A	1					1080	898 VA	1	20 A	Patient Ltg.	30
31	Lighting	20 A	1	1684	1430					1	20 A	Patient Ltg.	32
33	Patient Ltg.	20 A	1			1100	1204			1	20 A	Lighting	34
35	Refrigerator	20 A	1					1200	1200	1	20 A	Refrig.	36
37	Lift/Lav	20 A	1	540 VA	1000					1	20 A	Receptacle	38
39	Ice	30 A	1			800 VA	1000			1	20 A	Receptacle	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
43	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
	Total Load:			10.40 kVA		10.18 kVA		9.90 kVA					

Notes: REPLACE EXISTING PANEL WITH NEW 54 CKT PANEL.

TOTAL CONNECTED		ESTIMATED DEMAND
30.48 kVA		20 KVAD (54A)

Panel: SCEQ2

Location: Data/Elec. 1C111A | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Fut. Spare	20 A	1	0 VA	0 VA					1	20 A	Fut. Spare	2
3	Fut. Spare	20 A	1			0 VA	0 VA			1	20 A	Fut. Spare	4
5	Fut. Spare	20 A	1					0 VA	0 VA	1	20 A	Fut. Spare	6
7	Fut. Spare	20 A	1	0 VA	0 VA					1	20 A	Fut. Spare	8
9	137C-EF1	20 A	1			696 VA	0 VA			1	20 A	Fut. Spare	10
11	137C-EF6	20 A	1					696 VA	0 VA	1	20 A	Fut. Spare	12
13	137C-EF8	20 A	1	1176	1176					1	20 A	137C-EF5	14
15	Spare	20 A	1			0 VA	1176			1	20 A	137C-EF2	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	137C-EF4	20 A	3	1177	372 VA					3	20 A	137C-EF9	20
21	--	--	--			1177	372 VA			--	--	--	22
23	--	--	--					1177	372 VA	--	--	--	24
	Total Load:			3.90 kVA		3.42 kVA		2.25 kVA					

Notes: EXISTING PANEL

TOTAL CONNECTED		ESTIMATED DEMAND
9.57 kVA		4 KVAD (11A)

Panel: SCLS1

Location: Nour. Kitch. 1C138 | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 60 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EX. LTG.	20 A	1	0 VA	0 VA					1	20 A	EX. LTG.	2
3	EX. LTG	20 A	1			0 VA	0 VA			1	20 A	EX. LTG.	4
5	Auto Doors	20 A	1					1200	0 VA	1	20 A	EX. MED GAS	6
7	Auto Doors	20 A	1	960 VA	960 VA					1	20 A	Auto Doors	8
9	Auto Doors	20 A	1			960 VA	960 VA			1	20 A	Auto Doors	10
11	Auto Doors	20 A	1					480 VA	1426	1	20 A	Egress Ltg.	12
13	Egress Ltg.	20 A	1	732 VA	1148					1	20 A	Egress Ltg.	14
15	Egress Ltg.	20 A	1			783 VA	0 VA			--	--	Space	16
17	Space	--	--					0 VA	0 VA	--	--	Space	18
	Total Load:			3.80 kVA		2.70 kVA		3.11 kVA					

Notes: EXISTING PANEL, CUTLER HAMMER PRL1a, 60A MAIN BREAKER.

TOTAL CONNECTED		ESTIMATED DEMAND
9.61 kVA		8 KVAD (23A)

Panel: SCLS2

Location: Data/Elec. 1C111A | Mounting: Surface | A.I.C. Rating:
Supply From: | Enclosure: Type 1 | Mains Type:
Voltage: 120/208 Wye-3PH-4W | Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Ex. Ltg.	20 A	1	0 VA	720 VA					1	20 A	Auto Doors	2
3	Auto Doors	20 A	1			720 VA	0 VA			1	20 A	Spare	4
5	Auto Doors	20 A	1					720 VA	0 VA	1	20 A	Spare	6
7	Fut. Spare	20 A	1	0 VA	0 VA					1	20 A	EX. Med Gas	8
9	Fut. Spare	20 A	1			0 VA	0 VA			1	20 A	EX. CKT.	10
11	Fut. Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Auto Doors	20 A	1	720 VA	960 VA					1	20 A	Auto Doors	14
15	Spare	20 A	1			0 VA	1468			1	20 A	Egress Ltg.	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Space	--	--	0 VA	0 VA					--	--	Space	20
21	Space	--	--			0 VA	0 VA			--	--	Space	22
23	Space	--	--					0 VA	0 VA	--	--	Space	24
	Total Load:			2.40 kVA		2.19 kVA		0.72 kVA					

Notes: EXISTING PANEL, CUTLER HAMMER PRL1a.

TOTAL CONNECTED		ESTIMATED DEMAND
5.31 kVA		6 KVAD (17A)

Revisions | Date

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Drawing Title: ELECTRICAL SCHEDULES

Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137 | Checked: LLC | Drawn: MSG

Location: Hampton, VA.

Date: 04/26/2013

Project No. 590-911
RDC/JPA Project No. 11004.00

Drawing Number: 137-E601

Dwg. 118 of 135

Department of Veterans Affairs

SPECIFICATION GRADE CHAIN HUNG INDUSTRIAL, NOMINAL 14" X 4' IN SIZE AND APPROXIMATELY 6" DEEP.

HOUSING: CODE GAUGE STEEL HOUSING WITH LONGITUDINAL REINFORCING RIBS. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING. DESIGNED FOR INDIVIDUAL OR CONTINUOUS ROW MOUNTING. SPRING LOADED TURRET LAMP HOLDERS. WIRE GUARD.

REFLECTOR: DIE-EMBOSSED STEEL WITH TRANSVERSE RIBS FOR RIGIDITY. 10%-15% UPLIGHT APERTURES.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND HIGH REFLECTANCE BAKE ENAMEL.

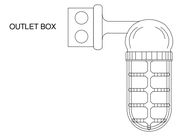
LAMPS: TWO RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

LOCATION: CHAIN MOUNT AT 7'-6" AFF UNLESS NOTED OTHERWISE.

FLUORESCENT INDUSTRIAL LUMINAIRE

EC1



BODY: HEAVY CORROSION RESISTANT CAST METAL; FOR SUPPORT OF LAMPHOLDER; THREADED TO RECEIVE SCREW TYPE GLOBE AND GUARD; 90 DEGREE ANGLED FOR BRACKET MOUNTING; FLANGED FOR MOUNTING TO 4" CAST BOX.

GLOBE: CLEAR GLASS; THREADED TO FIT BODY.

GASKETS: HEAT AND MOISTURE RESISTANT; BETWEEN GLOBE AND BODY, AND BODY AND OUTLET BOX.

GUARD: HEAVY ONE-PIECE CAST ALUMINUM; THREADED TO FIT FIXTURE BODY; WITH LOCKING SCREW DEVICE.

FINISH: ALL FERROUS METAL PARTS SHALL HAVE CORROSION RESISTANT FINISH.

LAMPHOLDER: MEDIUM SCREW BASE; PORCELAIN BODIED; HAVING SCREW TERMINALS.

LAMPS: PROVIDE SELF BALLASTED 26W COMPACT FLUORESCENT LAMP.

LOCATION: WALL MOUNT JUST BELOW BOTTOM CHORD OF STRUCTURE.

INCANDESCENT INDUSTRIAL LUMINAIRE

EC2

SPECIFICATION GRADE RECESSED FLUORESCENT LIGHTING TROFFER WITH FOUR FUNCTIONS, NOMINAL 2' X 4' IN SIZE AND APPROXIMATELY 7" INCHES DEEP.

HOUSING: DIE FORMED AND EMBOSSED CODE GAUGE STEEL. END CAPS HINGED AND SCREWED TO HOUSING FOR RIGIDITY. DESIGNED FOR INSTALLATION IN CEILING TYPE SHOWN ON ARCHITECTURAL DRAWINGS. INTEGRAL T-BAR CLIPS. HARDWARE FOR MINIMUM 4 POINTS OF SUPPORT. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

REFLECTORS: LOW IRRIDESCENCE SPECULAR ALUMINUM (READ/AMBIENT). WHITE . POWDER COATED LOUVER EXAM SECTION.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND HIGH REFLECTANCE BAKED WHITE ENAMEL.

SHIELDING: 100% PRISMATIC VIRGIN ACRYLIC, .095" THICK (NOMINAL) OVERLAY.

LAMPS: SIX 40W-TT5 LAMPS, MIN CRI OF 85, 4100K AND 3W COOL WHITE LED NIGHT LIGHT.

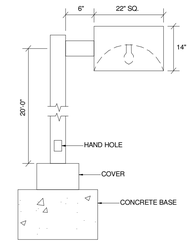
BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLASTS, 0.88BF, 120/277V.

LOCATION: MOUNT EXAM SECTION AT FOOT-END OF BED.

CONTROL: PROVIDE LOW VOLTAGE CONTROLLER FOR CONTROL OF AMBIENT/READING BY ECU. PROVIDE CONNECTION TO HEADWALL FACEPLATE. EXAM/NIGHT LIGHT TO BE CONTROLLED VIA TOGGLE SWITCHES IN HEAD WALL UNIT.

RECESSED FLUORESCENT PATIENT LUMINAIRE

EF1



HOUSING: HEAVY GAUGE DIE-FORMED ALUMINUM HOUSING, WHEATHER-TIGHT INTEGRITY. CONTINUOUS SEAM WELDED.

DOOR: HINGED ALUMINUM DOOR FRAME INCORPORATES STAINLESS STEEL HARDWARE. CONTINUOUS SILICONE GASKETING. IP65 LISTED.

ARM: INTEGRAL STRUCTURAL SUPPORT PLATE WITH 6" MOUNTING ARM.

LENS: FLAT TEMPERED GLASS LENS, TYPE 5 FULL IES CUTOFF.

FINISH: COLOR TO BE SELECTED BY ARCHITECT. CORROSION RESISTANT.

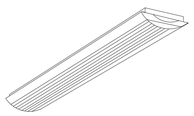
LAMPS: 400 WATT PULSE START METAL HALIDE.

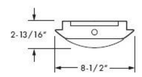
BALLAST: 480V PULSE START, SCWA SUPER CWA BALLAST.

POLE: 20' STRAIGHT SQUARE ALUMINUM.

SITE LIGHTING STANDARD

ES1





SPECIFICATION GRADE SURFACE MOUNTED FLUORESCENT LUMINAIRE WITH LOW-BRIGHTNESS LENS PANEL, NOMINAL 8" X 4' IN SIZE AND APPROXIMATELY 3 INCHES DEEP, WET LOCATION LISTED.

HOUSING: DIE FORMED 0.40" ALUMINUM WITH DIE CAST END CAPS. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

FINISH: POLYESTER WHITE POWDER COAT, NON-GLARE WITH IRON/PHOSPHATE PREPARED METAL.

SHIELDING: 100% PRISMATIC VIRGIN ACRYLIC RIBBED DIFFUSER.

LAMPS: ONE RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

SURFACE MTD. FLUORESCENT LUMINAIRE

EF3

SPECIFICATION GRADE RECESSED FLUORESCENT LIGHTING TROFFER WITH FLAT LOW-BRIGHTNESS LENS PANEL, NOMINAL 2' X 4' IN SIZE AND APPROXIMATELY 4.25 INCHES DEEP.

HOUSING: DIE FORMED AND EMBOSSED CODE GAUGE STEEL. END CAPS HINGED AND SCREWED TO HOUSING FOR RIGIDITY. DESIGNED FOR INSTALLATION IN CEILING TYPE SHOWN ON ARCHITECTURAL DRAWINGS. INTEGRAL T-BAR CLIPS. HARDWARE FOR MINIMUM 4 POINTS OF SUPPORT. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

REFLECTOR: HIGH REFLECTANCE BAKED WHITE ENAMEL AND SPECULAR SILVER INSERT.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND HIGH REFLECTANCE BAKED WHITE ENAMEL.

SHIELDING: 100% PRISMATIC VIRGIN ACRYLIC, PATTERN 12, .125" THICK (NOMINAL). FLUSH DOOR WITH MITRED CORNERS, INCONSPICUOUS CAM ACTION LATCHES.

LAMPS: TWO 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

VARIATIONS:

EF4a: TWO LAMP FIXTURE WITH STEP-DIMMING BALLAST.

EF4b: 2'x2' FIXTURE WITH 2-17W T8 LAMPS.

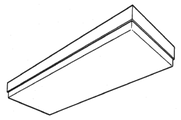
EF4c: 1'x4' FIXTURE WITH DRYWALL FLANGE.

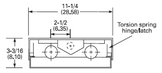
EF4d: 3 LAMP FIXTURE WITH 2 BALLASTS.

EF4e: 2 LAMP ALUMINUM FRAME, WET LOCATION LISTED.

RECESSED FLUORESCENT LUMINAIRE

EF4





SPECIFICATION GRADE SURFACE MOUNTED FLUORESCENT WRAPAROUND WITH PRISMATIC ACRYLIC LENS.

LENS: FLAT BOTTOM ACRYLIC PRISMATIC DIFFUSER WITH SONIC-WELDED, INJECTION-MOLDED, LUMINOUS ENDS.

FINISH: FIVE STAGE, IRON-PHOSPHATE PRETREATMENT. HIGH-GLOSS, BAKED WHITE ENAMEL FINISH.

DOOR: DIFFUSER HINGES OPEN FROM EITHER SIDE FOR EASY MAINTENANCE.

LAMPS: TWO RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

SURFACE MTD. FLUORESCENT LUMINAIRE

EF5

SPECIFICATION GRADE RECESSED FLUORESCENT LIGHTING TROFFER WITH LUMINOUS HIGH EFFICIENCY LENS PANELS, NOMINAL 2' X 4' IN SIZE AND APPROXIMATELY 4.5 INCHES DEEP.

HOUSING: DIE FORMED AND EMBOSSED CODE GAUGE STEEL. END CAPS HINGED AND SCREWED TO HOUSING FOR RIGIDITY. DESIGNED FOR INSTALLATION IN CEILING TYPE SHOWN ON ARCHITECTURAL DRAWINGS. INTEGRAL T-BAR CLIPS. HARDWARE FOR MINIMUM 4 POINTS OF SUPPORT. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING. PROVIDE DRYWALL FLANGE KIT WHERE SHOWN TO BE INSTALLED IN DRYWALL CEILINGS.

OPTICS: HIGH TRANSMISSION EXTRUDED ACRYLIC. S/MH 1.2, 86% EFFICIENCY MIN.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND SOFT NON-GLARE HIGH REFLECTANCE POWDER COAT.

DOOR: FLUSH FRAME-LESS HINGED DOOR WITH INCONSPICUOUS CAM ACTION LATCHES. "SQUEEZE LENSES" WILL NOT BE PERMITTED.

LAMPS: TWO RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

VARIATIONS:

EF6a: 2'x2' FIXTURE WITH 2-17W T8 LAMPS.

EF6b: 2'x4' FIXTURE WITH STEP DIMMING BALLAST.

RECESSED FLUORESCENT LUMINAIRE

EF6

Revisions	Date

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Drawing Title: LIGHTING FIXTURES (1)

Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-E602
Dwg. 119 of 135

Department of Veterans Affairs

SPECIFICATION GRADE WALL MOUNTED LIGHTING FIXTURE.

HOUSING: 36" LONG EXTRUDED ALUMINUM HOUSING WITH PERFORATED VERTICAL CURVED FACIA. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

REFLECTOR: HIGH REFLECTANCE STEEL OR ALUMINUM, MIN 85% REFLECTANCE.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND WHITE BAKED ENAMEL.

LAMPS: ONE RAPID START 25W-T8 LAMP, MIN CRI OF 85, 4100K.

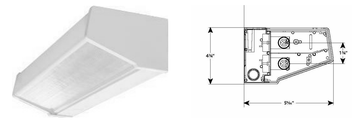
BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

LOCATION: MOUNT AT 6'-10" AFF UNLESS OTHERWISE NOTED.

VARIATIONS:

EW1a: NOMINAL 24" IN LENGTH, 1-17W T8 LAMP.

FLUORESCENT VANITY LUMINAIRE — EW1



SPECIFICATION GRADE FLUORESCENT WALL BRACKET.

HOUSING: 48" LONG DIE FORMED AND EMBOSSED CODE GAUGE STEEL. DIE CAST END CAPS HINGED AND SCREWED TO HOUSING FOR RIGIDITY. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

REFLECTOR: HIGH REFLECTANCE BAKED WHITE ENAMEL.

FINISH: POWDER COAT WHITE ENAMEL.

SHIELDING: 100% PRISMATIC VIRGIN ACRYLIC, PATTERN 12, .125" THICK (NOMINAL).

LAMPS: TWO RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

LOCATION: MOUNT AT 7'-0" AFF UNLESS OTHERWISE NOTED.

FLUORESCENT WALL BRACKET — EW2

SPECIFICATION GRADE WALL MOUNTED SECURITY LIGHT.

HOUSING: DIE CAST SINGLE PIECE ALUMINUM HOUSING. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

REFLECTOR: SPECULAR ALUMINUM REFLECTOR.

FINISH: POWDER COAT DARK BRONZE.

LAMPS: ONE 4 PIN 42W TRIPLE TUBE CFL, MIN CRI OF 80, 4100K.

BALLAST: HPF ELECTRONIC BALLAST 120V, 0 DEG. F. STARTING TEMP.

LOCATION: REFER TO PLANS FOR ELEVATIONS.

EXTERIOR WALL LUMINAIRE — EW3

HOUSING: RLM SHADES MANUFACTURED FROM 1100 ALUMINUM ALLOY TYPICALLY .80-.125 THICKNESS. FIXTURES AND ARMS U.L. WET LISTED.

REFLECTOR: WHITE PAINTED ALUMINUM REFLECTOR.

FINISH: A POLYESTER POWDER COAT ELECTROSTATICALLY APPLIED SMOOTH GLOSSY TOPCOAT AND BAKED AT 430 DEGREE FOR MAXIMUM HARDNESS AND EXTERIOR DURABILITY.

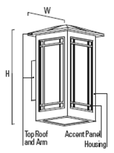
ARM: SCHEDULE 40 0.75" IPS PAINTED WITH WALL BRACKET.

LAMPS: ONE 4 PIN 32W TRIPLE TUBE CFL, MIN CRI OF 80, 4100K.

BALLAST: HPF ELECTRONIC BALLAST 120V, 0 DEG. F. STARTING TEMP.

LOCATION: REFER TO PLANS FOR ELEVATIONS.

EXTERIOR WALL LUMINAIRE — EW4



SPECIFICATION GRADE EXTERIOR WALL MOUNTED LIGHT.

HOUSING: FABRICATED METAL HOUSING WITH INTERNAL REINFORCING CORNER EXTRUSIONS AND CAST ALUMINUM TOP ROOF.

LENS: 0.125" THICK WHITE ACRYLIC DIFFUSER, UV STABLE.

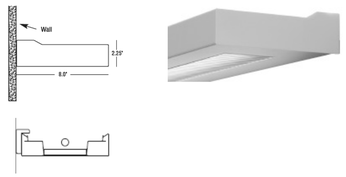
FINISH: PAINTED, COORDINATE EXACT FINISHED WITH ARCHITECT.

LAMPS: 13W QUAD, 4-PIN G24Q-1 BASE, FLR

BALLAST: HPF ELECTRONIC BALLAST 120V. 0 DEG. F./-18 DEG. C STARTING TEMP.

LOCATION: MOUNT AT 6'-0" AFF

EXTERIOR WALL LUMINAIRE — EW5



WALL MOUNTED LOW PROFILE RECTILINEAR LUMINAIRE.

HOUSING: 20-GUAGE DIE-FORMED STEEL OR EXTRUDED ALUMINUM WITH 18 GAUGE DIE-FORMED INTERNAL JOINER SYSTEM, PLUG-TOGETHER WIRING STANDARD.

REFLECTOR: DIE-FORMED PRE-PAINTED ALUMINUM, 91% REFLECTIVE WHITE.

SHIELDING: SEMI SPECULAR LOUVER, 44 CELL LOUVERS SPACED 1.0" APART.

FINISH: POLYESTER POWDER PAINTED WHITE.

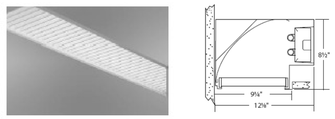
LAMPS: ONE RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

LOCATION: MOUNT AT 7'-2" AFF.

VARIATIONS: EW7a: 36" LONG FIXTURE.

WALL MOUNTED FLUORESCENT LUMINAIRE — EW7



RECESSED CEILING LINEAR LUMINAIRE.

HOUSING: DIE-FORMED, 20-GAUGE, COLD-ROLLED STEEL.

TRIM: PRECISION-EXTRUDED ALUMINUM.

REFLECTOR: DIFFUSE ALUMINUM

SHIELDING: PARABOLIC LOUVER, BLADES 2"H x 4"O.C. DIFFUSE ALUMINUM.

FINISH: MATTE WHITE

LAMPS: ONE RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: ELECTRONIC BALLAST, 120/277V

MOUNTING: PROVIDE CONTINUOUS FIXTURE RUNS FROM WALL/SOFFIT. REFER TO ARCHITECTURAL CEILING PLANS FOR MORE INFORMATION. FIELD VERIFY EXACT LENGTH IN FIELD PRIOR TO ORDERING.

WALL MOUNTED FLUORESCENT LUMINAIRE — EF7

Revisions	Date

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Drawing Title: LIGHTING FIXTURES (2)

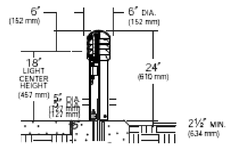
Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-E603
Dwg. 120 of 135

Department of Veterans Affairs



PERFORMANCE COMPACT BOLLARD WITH 5" DIA. ALUMINUM SHAFT.

TOP CAP: DIE-CAST LOUVERS, SECURED TO BODY BY STAINLESS STEEL ALLEN CAP SCREWS.

FINISH: SUPER TGIC THERMOSET POLYESTER POWDER COAT PAINT, 2.5 MIL NOMINAL THICKNESS, APPLIED OVER A TITANATED ZIRCONIUM CONVERSION COATING; 2500 HR SALT SPRAY TEST RATING. VERIFY COLOR WITH ARCHITECT.

LED OPTICAL SYSTEM: A TOTAL OF 15 LED EMITTERS CONFIGURED IN A RETANGULAR ARRAY COMPRISED TOGETHER AS A MODULE. (3-5 LED BOARDS) 5100K COLOR TEMPERATURE.

LED DRIVER: CONSTANT CURRENT ELECTRONIC, - 40 DEG. STARTING TEMP.

SURFACE CONCRETE BASE FINISH : MEDIUM SAND-BLASTED WITH ANTI-GRAFFITI SEALER. VERIFY FINISH COLOR WITH ARCHITECT.

VOLTAGE: 120/277V, 18 WATTS TOTAL.

DIMENSIONS: APPROXIMATELY 6" DIAMETER APERTURE, 24" HIGH.

PROVIDE CONCRETE BOLLARD BASE PER DETAIL N/137-E501.

EXTERIOR MINI CONCRETE BOLLARD

EL1

HOUSING: CORROSION PROTECTED DIE FORMED ZINC PLATED STEEL FACEPLATE SECURED IN PLACE BY TWO SCREWS.

LENS: OPEN LENS WITH OPAL AMBER DIFFUSER.

FINISH: GLOSS WHITE

LAMP: 0.5W - 3W LED AND DRIVER.

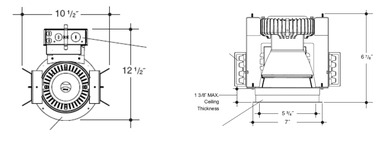
VOLTAGE: 120V

LOCATION: MOUNT CENTERED ABOVE PATIENT TOILET DOOR.

SAMPLE: PROVIDE FUNCTIONAL SAMPLE OF PROPOSED FIXTURE FOR TESTING BY VA TO DETERMINE NIGHT-TIME INTENSITY. IF SUBMITTED FIXTURE IS TOO BRIGHT/DIM, PROVIDE ALTERNATE WATTAGE FIXTURE AT NO ADDITIONAL COST TO THE GOVERNMENT.

RECESSED BATHROOM "IN-USE" LIGHT

EN1



HOUSING: HEAVY GAUGE SPUN ALUMINUM STRAIGHT CUT "ALZAK" CONE. INTERNAL HEAT TREATED SPRING STEEL CLIPS HOLD REFLECTOR TIGHT TO CEILING. WHITE PAINTED FLANGE. POLISHED FLANGE. WET LOCATION LISTED.

REFLECTOR: REGRESSED PRISMATIC LENS, WHITE FLANGE STANDARD.

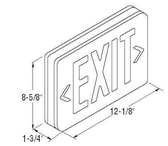
FINISH: WHITE WITH WHITE FLANGE

LAMP: 33W LED, 2000LM, 4000K, 50,000 HOURS

VOLTAGE: 120/277V

RECESSED LED WET LOCATION DOWNLIGHT

EN2



HOUSING AND CANOPY: FLAME RETARDANT, UV STABLE THERMOPLASTIC.

FINISH: WHITE

INSCRIPTION PANEL(S): RED L.E.D. 6" LETTERS

LAMPS: MULTIPLE L.E.D. LAMP ASSEMBLY WITH MINIMUM OF 20,000 HOURS LIFE.

VARIATIONS: TYPE EX2 DENOTE DOUBLE FACED FIXTURES. FURNISHED FIXTURES WITH DIRECTIONAL ARROWS WHERE SHOWN ON DRAWINGS AND WIRED FOR 120/277-VOLT OPERATION AS INDICATED.

LOCATION: CEILING MOUNT WHERE SHOWN. WALL MOUNT AT 7'-4" AFF WHERE SHOWN UNLESS OTHERWISE NOTED.

TOP MOUNTED EXIT LIGHT

EX1

CLOSE-TO-CEILING PENDANT, 3 LAMP FLUORESCENT LIGHTING FIXTURE WITH SUSPENDED BOWL DIFFUSER.

HOUSING: STEEL, LOW PROFILE RECESSED HOUSING WITH BALLAST ENCLOSURE. APPROXIMATELY 19.5 INCHES DIA. AND 13.25 DP.

REFLECTOR: REFLECTOR AND LAMPHOLDER WITH SEPARABLE PLUG AND CORD CONNECTOR.

DIFFUSER: SATIN WHITE GLASS.

FINISH: BRUSHED STEEL PLATED.

LAMP: THREE-13 WATT QUAD COMPACT FLUORESCENT LAMPS.

BALLAST: ELECTRONIC TYPE, 120V HPF.

VARIATIONS:

EP1a: SAME AS ABOVE EXCEPT POLISHED BRASS FINISH.

FLUORESCENT PENDANT LUMINAIRE

EP1

HOUSING: ENERGY STAR, WOBBLE-FREE CANOPY, 175 RPM HIGH, 5 BLADES, 5873 CFM HIGH

FINISH: ANTIQUE PEWTER FINISH

COLOR: CHERRY BLADES

ELECTRIC: 120V-66 WATTS

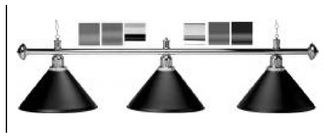
AIR FLOW EFFICIENCY: 89 CUBIC FEET PER MINUTE PER WATT

DIMENSIONS:

CEILING TO BOTTOM OF FAN	10 INCHES
CEILING TO BOTTOM OF FAN BLADE	9 INCHES
CEILING TO BOTTOM OF LIIGHT	4.25 INCHES
OVERALL DIAMTER	52 INCHES

CEILING FAN

EP2



3 SHADE POOL TABLE LIGHT WITH 58" CROME BAR

HOUSING: SATIN CHROME HARDWARE WITH BLACK GLASS SHADE.

FINISH: CHROME

LAMP: THREE-13 WATT QUAD COMPACT FLUORESCENT LAMPS.

POOL TABLE LIGHT

EP2

SPECIFICATION GRADE FLUORESCENT RECESSED DOWNLIGHT, NOMINAL 6" DIA.

HOUSING: 16 GAUGE GALVANIZED STEEL MOUNTING/PLASTER FRAME AND BARS WITH INTEGRAL YOKE TO RETAIN OPTICAL SYSTEM.

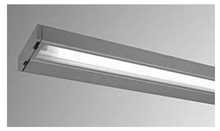
REFLECTOR: SEMI-SPECULAR SILVER REFLECTOR.

LAMPS: ONE 4 PIN 32W TRIPLE TUBE CFL, MIN CRI OF 80, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.95 BF, 120/277V.

RECESSED FLUORESCENT DOWNLIGHT

EN3



SPECIFICATION GRADE UNDER CABINET FLUORESCENT LIGHTING FIXTURE WITH FLAT STIPLED ACRYLIC LENS PANEL, NOMINAL 1.25" DP x 4.5" WIDE IN SIZE.

HOUSING: EXTRUDED ALUMINUM BODY, WIREWAY COVER AND LENS FRAME. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING. PROVIDE ROCKER SWITCH.

REFLECTOR: SPECULAR SILVER REFLECTOR.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND WHITE ANTI-MICROBIAL POLYESTER POWDER COAT PAINT.

LAMPS: RAPID START T5 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

VARIATIONS:

EU1: NOMINAL 12.75" IN LENGTH, 8W-T5 LAMP.
EU2: NOMINAL 23.0" IN LENGTH, 14W-T5 LAMP.
EU3: NOMINAL 34.5" IN LENGTH, 21W-T5 LAMP.
EU4: NOMINAL 46.5" IN LENGTH, 28W-T5 LAMP.

NOTE: COORDINATE EXACT FIXTURE LENGTH WITH DIV 01 PRIOR TO ORDERING.

UNDERCABINET LIGHT

EUx

Revisions	Date

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Drawing Title: LIGHTING FIXTURES (3)

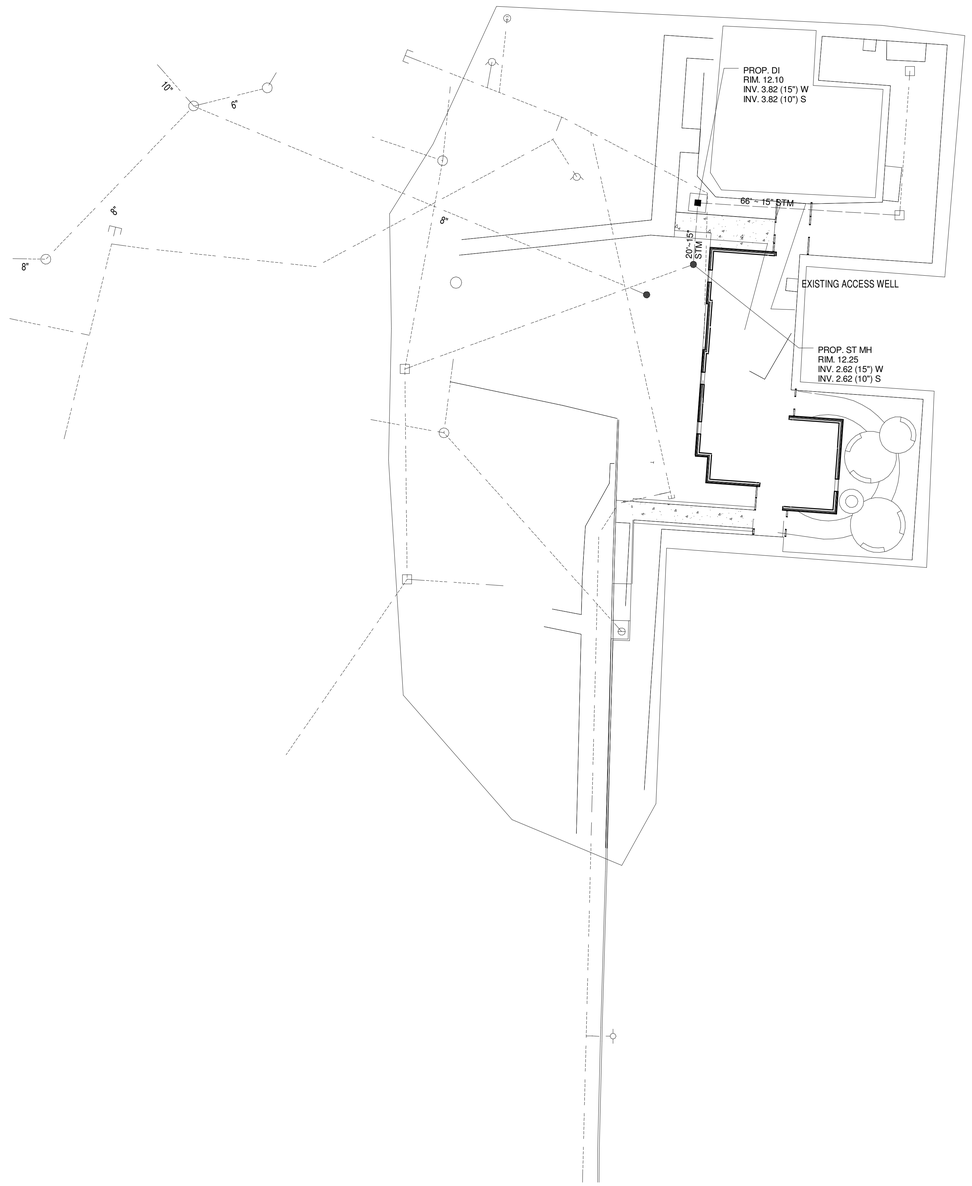
Approved: Project Director

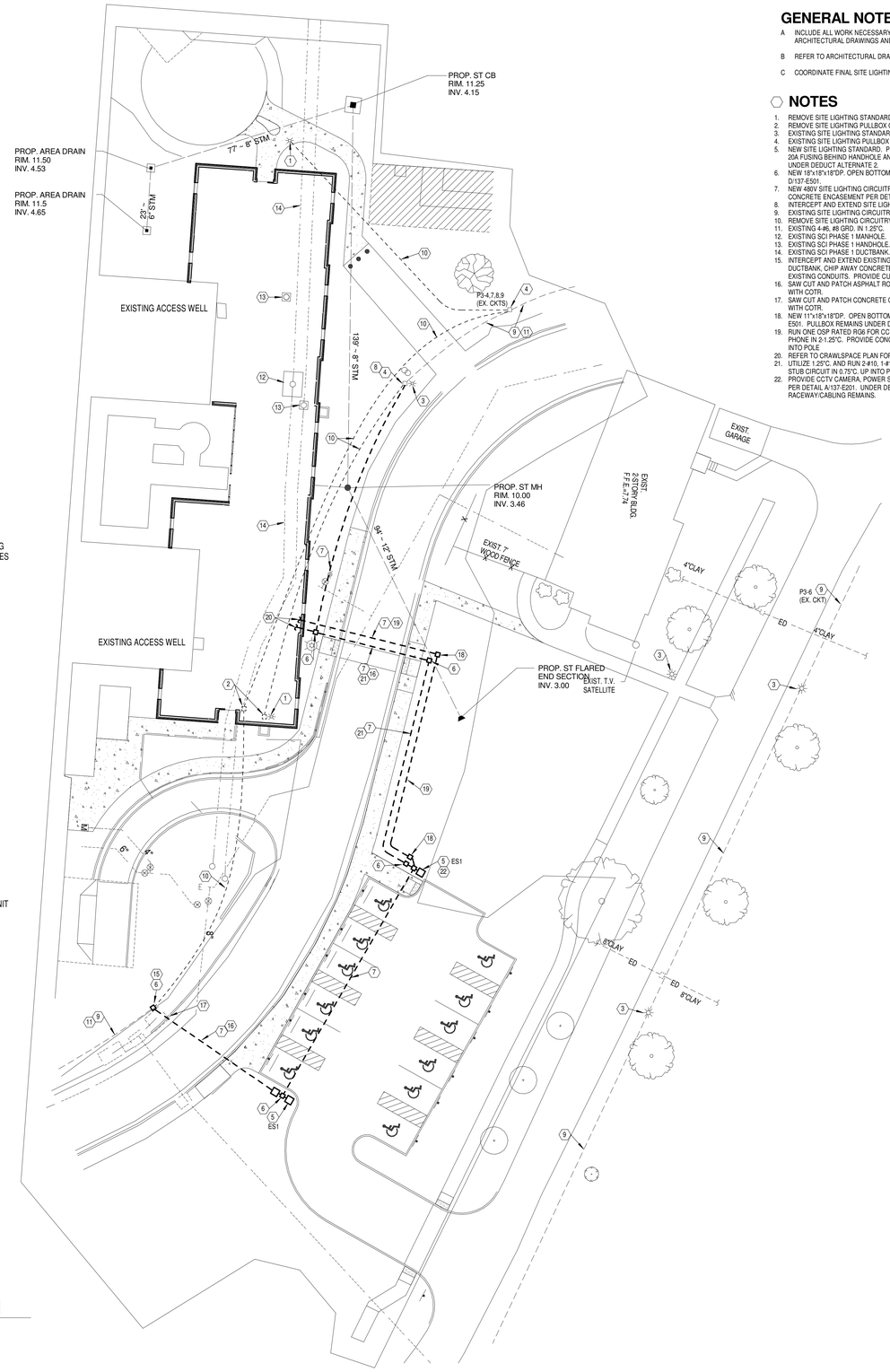
Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No. 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-E604
Dwg. 121 of 135

Department of Veterans Affairs





GENERAL NOTES

A INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.

B REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

C COORDINATE FINAL SITE LIGHTING STANDARD LOCATIONS WITH CIVIL ENGINEER.

NOTES

1. REMOVE SITE LIGHTING STANDARD AND CONCRETE BASE.
2. REMOVE SITE LIGHTING PULLBOX ONCE CIRCUITS ARE BACKFED.
3. EXISTING SITE LIGHTING STANDARD TO REMAIN.
4. EXISTING SITE LIGHTING PULLBOX TO REMAIN.
5. NEW SITE LIGHTING STANDARD. PROVIDE CONCRETE BASE PER DETAIL B/137-E501. PROVIDE 20A FUSING BEHIND HANDHOLE AND RUN 2-#12, #12 GRD. UP TO LUMINAIRE. FIXTURES REMAIN UNDER DEDUCT ALTERNATE 2.
6. NEW 18"x18"x18"DP. OPEN BOTTOM CONCRETE SITE LIGHTING PULLBOX. PROVIDE PER DETAIL D/137-E501.
7. NEW 480V SITE LIGHTING CIRCUITRY. RUN 4-#6, #8 GRD. IN 1.25"C (1-1.25"C. SPARE). PROVIDE CONCRETE ENCASEMENT PER DETAIL A/137-E501.
8. INTERCEPT AND EXTEND SITE LIGHTING CIRCUITRY IN EXISTING PULLBOX.
9. EXISTING SITE LIGHTING CIRCUITRY. FIELD VERIFY EXACT LOCATION.
10. REMOVE SITE LIGHTING CIRCUITRY BACK TO LAST ACTIVE POLE/HANDHOLE.
11. EXISTING 4-#6, #8 GRD. IN 1.25"C.
12. EXISTING SCI PHASE 1 MANHOLE. PROTECT IN PLACE.
13. EXISTING SCI PHASE 1 HANDHOLE. PROTECT IN PLACE.
14. EXISTING SCI PHASE 1 DUCTBANK. PROTECT IN PLACE.
15. INTERCEPT AND EXTEND EXISTING SITE LIGHTING CIRCUITRY IN NEW PULLBOX. EXCAVATE DUCTBANK, CHIP AWAY CONCRETE (IF PRESENT) AND SET NEW PULL BOX OVER TOP OF EXISTING CONDUITS. PROVIDE CUSTOM SLOTTED CONDUIT CHANNELS IN PULLBOX AS REQUIRED.
16. SAW CUT AND PATCH ASPHALT ROADWAY FOR NEW DUCTBANK. COORDINATE WORK CLOSELY WITH COTR.
17. SAW CUT AND PATCH CONCRETE CURB FOR NEW DUCTBANK. COORDINATE WORK CLOSELY WITH COTR.
18. NEW 11"x18"x18"DP. OPEN BOTTOM CONCRETE SIGNALS PULLBOX. PROVIDE PER DETAIL D/137-E501. PULLBOX REMAINS UNDER DEDUCT ALTERNATE 2.
19. RUN ONE OSP RATED RG6 FOR CCTV CABLING AND ONE OSP RATED CAT 6 FOR EMERGENCY PHONE IN 2-1.25"C. PROVIDE CONCRETE ENCASEMENT PER DETAIL A/137-E501. STUB 1-1"C. UP INTO POLE
20. REFER TO CRAWLSPACE PLAN FOR CONTINUATION.
21. UTILIZE 1.25"C. AND RUN 2-#10, 1-#10 GRD. FOR CCTV/EMERGENCY PHONE POWER SUPPLIES. STUB CIRCUIT IN 0.75"C. UP INTO PULL BOX/POWER SUPPLIES AT BASE OF POLE.
22. PROVIDE CCTV CAMERA, POWER SUPPLY, PULLBOX AND EMERGENCY PHONE MOUNTED ON POLE PER DETAIL A/137-E201. UNDER DEDUCT ALTERNATE 2, DELETE THIS WORK. ALL RACEWAY/CABLING REMAINS.

N

SITE PLAN

Scale: 1" = 20'-0"

Revisions	Date

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Drawing Title: ELECTRICAL SITE PLAN

Approved: Project Director

Project Title: Hampton VA, VAMC
Renovate / Expand SCI, Phase II,
590-911

Building Number: 137
Checked: LLC
Drawn: MSG

Location: Hampton, VA.

Date: 04/26/2013

Project No. 590-911
RDC/JPA Project No. 11004.00

Drawing Number: 137-ES101

Dwg. 122 of 135

Department of Veterans Affairs

N

FIRST FLOOR AREA "A" - REMOVALS

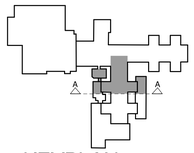
Scale: 1/8" = 1'-0"

GENERAL NOTES

A. MAINTAIN ALL LIGHTING AND RECEPTACLE CIRCUITS FOR NEW WORK (WHERE INDICATED OR REQUIRED).
B. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES.
C. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
D. REFER TO ARCHITECTURAL PHASING PLAN AND INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING.
E. REMOVE ALL EXISTING WORK WHICH WILL BE MADE SUPERFLUOUS WHEN NEW SYSTEMS ARE INSTALLED AND OPERATIONAL. NOT ALL ITEMS ARE NECESSARILY SHOWN ON DRAWINGS.

NOTES

1. REMOVE PRE-FABRICATED BEDSIDE PATIENT HEADWALL UNIT INCLUDING SWITCHES, GROUNDING PLUGS, NURSE CALL DEVICES, RECEPTACLES, NIGHT LIGHT, VOICE/DATA/CATV JACKS, CONDUIT, CABLING AND BRANCH CIRCUITRY BACK TO SOURCE. NURSE CALL PATIENT STATION TO BE RELOCATED.
2. REMOVE PATIENT OVERBED LIGHT AND NURSE CALL INTERFACE.
3. REMOVE ANTIQUATED/ABANDONED TELEPHONE JUNCTION BOX AND WALL FIELD.
4. DISCONNECT POWERED MEDS CABINET AND REMOVE LOAD CENTER, LIGHTS, RECEPTACLES, ETC. AND CIRCUITRY BACK TO SOURCE.
5. REMOVE EXISTING CCTV PANEL AND WIRING.
6. REMOVE EXISTING CAMERA POWER SUPPLY AND WIRING.
7. REMOVE ANTIQUATED NURSE CALL TERMINAL CABINET AND CABLING/CONDUIT.
8. REMOVE ANTIQUATED NURSE CALL POWER SUPPLY CABINET AND CABLING/CONDUIT.
9. REMOVE EXISTING PANEL AND REPLACE WITH NEW 54 CIRCUIT PANEL. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION. RETERMINATE ALL EXISTING CIRCUITS/CONDUITS TO REMAIN.
10. REMOVE AND RELOCATE NURSE CALL DUTY STATION.
11. REMOVE AND RELOCATE PATIENT WANDERER SYSTEM.
12. MOTORIZED DROP DOWN TABLE. REMOVE CIRCUITRY BACK TO SOURCE.
13. REMOVE 15 KVA DRY TYPE TRANSFORMER AND PRIMARY/SECONDARY FEEDERS WITHIN ROOM.
14. REMOVE AND RELOCATE CATV SPLITTER TO ADJACENT WALL TO ACCOMMODATE NEW DOOR.
15. REMOVE MOTORIZED TABLE CONTROL STATION.
16. EXISTING ACCESS CONTROL EQUIPMENT TO BE RELOCATED TO NEW DOOR 1C211
17. EXISTING PATIENT WANDERER SYSTEM HUB PROVIDING SYSTEM CONNECTIVITY FOR SIX (6) CONTROLLERS. HUB TO BE RELOCATED TO NEW EQUIPMENT ROOM 1C145 AND RECONNECTED TO THE RELOCATED CONTROLLERS.
18. EXISTING MED ROBOT SYSTEM (TUGS) ACCESS POINTS LOCATED ABOVE CEILING TO BE MAINTAINED DURING DEMOLITION. COORDINATE WITH VA AND SYSTEM VENDOR TO IDENTIFY AND PROTECT LOCATIONS PRIOR TO DEMOLITION. PROVIDE RELOCATION OF TWO (2) ANTENNA LOCATIONS (120V DUPLEX OUTLET AND DUAL DATA DROP) AT DIRECTION OF SYSTEM VENDOR DURING RENOVATION WORK.



KEYPLAN

Scale: N.T.S.

Revisions	Date

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Heapy Project No.: 2011-04008

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Drawing Title: FIRST FLOOR AREA "A" - REMOVALS

Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-ED101
Dwg. 123 of 135

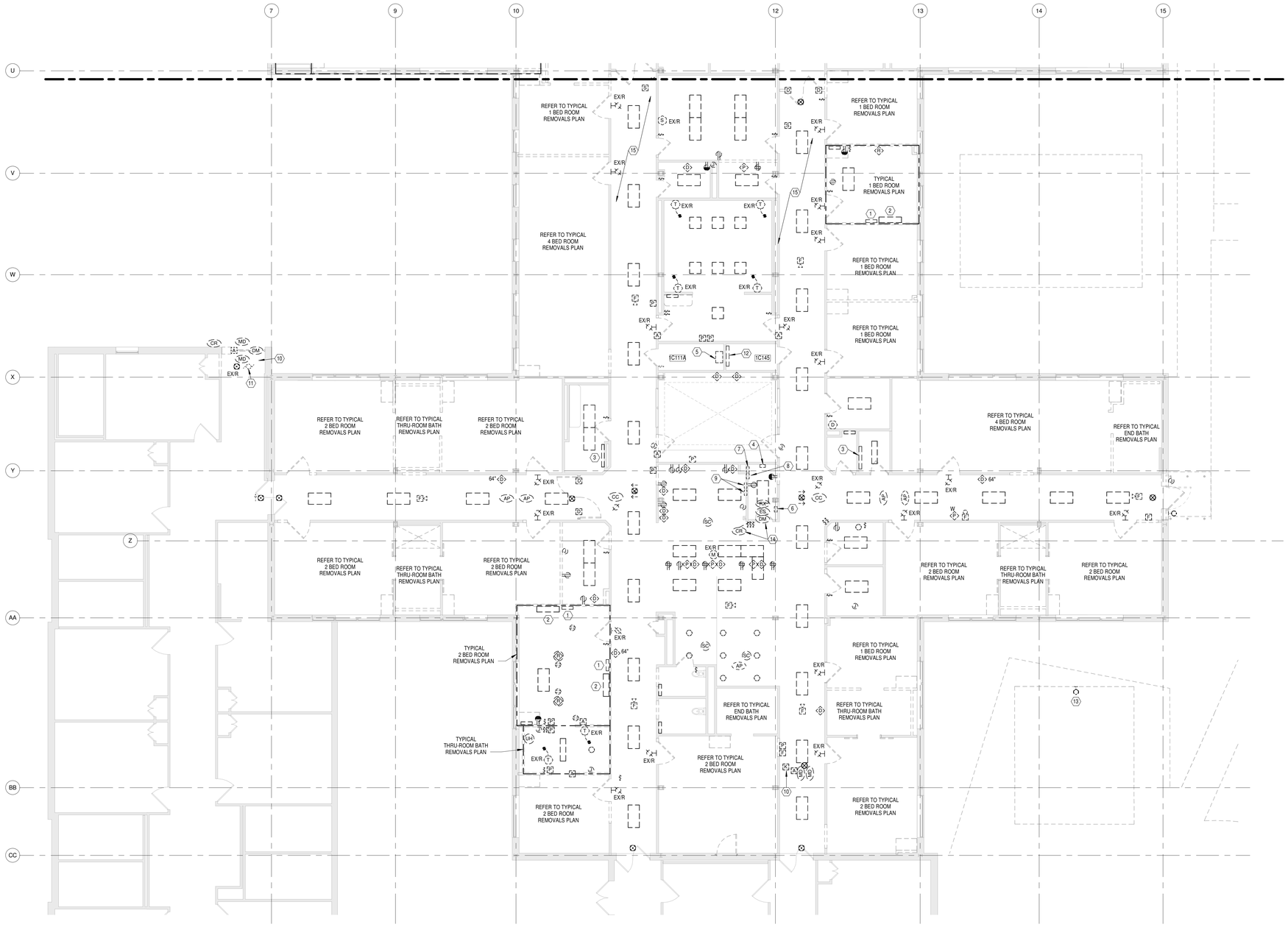
Department of Veterans Affairs

GENERAL NOTES

A. MAINTAIN ALL LIGHTING AND RECEPTACLE CIRCUITS FOR NEW WORK (WHERE INDICATED OR REQUIRED).
B. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES.
C. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
D. REFER TO ARCHITECTURAL PHASING PLAN AND INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING.
E. REMOVE ALL EXISTING WORK WHICH WILL BE MADE SUPERFLUOUS WHEN NEW SYSTEMS ARE INSTALLED AND OPERATIONAL. NOT ALL ITEMS ARE NECESSARILY SHOWN ON DRAWINGS.

NOTES

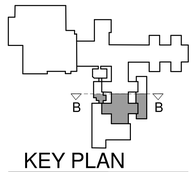
1. REMOVE PRE-FABRICATED BEDSIDE PATIENT HEADWALL UNIT INCLUDING SWITCHES, GROUNDING PLUGS, NURSE CALL DEVICES, RECEPTACLES, NIGHT LIGHT, VOICE/DATA/CATV JACKS, CONDUIT, CABLING AND BRANCH CIRCUITRY BACK TO SOURCE. NURSE CALL PATIENT STATION TO BE RELOCATED.
2. REMOVE PATIENT OVERBED LIGHT AND NURSE CALL INTERFACE.
3. REMOVE ANTIQUATED/ABANDON TELEPHONE JUNCTION BOX AND WALL FIELD.
4. DISCONNECT POWERED MEDS CABINET AND REMOVE LOAD CENTER, LIGHTS, RECEPTACLES, ETC. AND CIRCUITRY BACK TO SOURCE.
5. REMOVE DATA RACK FIBER CABINET, CABLING, UPS, ETC. UPON COMPLETION OF PROJECT.
6. DISCONNECT 120V CIRCUIT TO DDC PANEL AND REMOVE BACK TO SOURCE.
7. REMOVE ANTIQUATED NURSE CALL TERMINAL CABINET AND CABLING/CONDUIT.
8. REMOVE ANTIQUATED NURSE CALL POWER SUPPLY CABINET AND CABLING/CONDUIT.
9. DISCONNECT 120V CIRCUIT TO AREA ALARM PANEL AND MAINTAIN FOR NEW WORK.
10. EXISTING PATIENT WANDERING SYSTEM TO BE REMOVED.
11. DISCONNECT MOTORIZED AIR CURTAIN AND REMOVE CIRCUITRY BACK TO SOURCE.
12. REMOVE VOICE WALL FIELD. PUNCHDOWN BLOCKS, CABLING, ETC. UPON COMPLETION OF PROJECT.
13. REMOVE SECURITY LIGHT FROM SMOKING SHELTER AND CIRCUITRY BACK TO SOURCE.
14. EXISTING ACCESS CONTROL EQUIPMENT TO BE RELOCATED TO NEW DOOR 1C103D.
15. EXISTING MED ROBOT SYSTEM (TUGS) ACCESS POINTS LOCATED ABOVE CEILING TO BE MAINTAINED DURING DEMOLITION. COORDINATE WITH VA AND SYSTEM VENDOR TO IDENTIFY AND PROTECT LOCATIONS PRIOR TO DEMOLITION. PROVIDE RELOCATION OF TWO (2) ANTENNA LOCATIONS (120V DUPLEX OUTLET AND DUAL DATA DROP) AT DIRECTION OF SYSTEM VENDOR DURING RENOVATION WORK.



N

FIRST FLOOR AREA "B" - REMOVALS

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



KEY PLAN

Scale: N.T.S.

Revisions	Date

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Drawing Title: FIRST FLOOR AREA "B" - REMOVALS

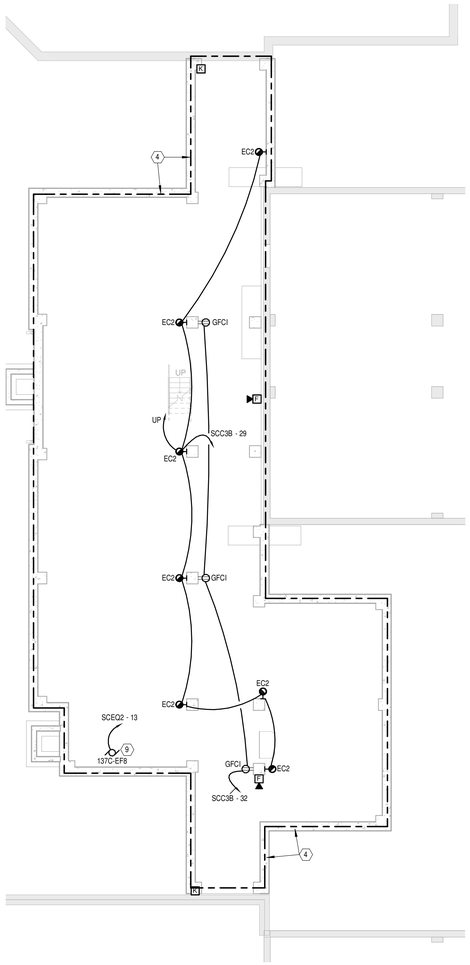
Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

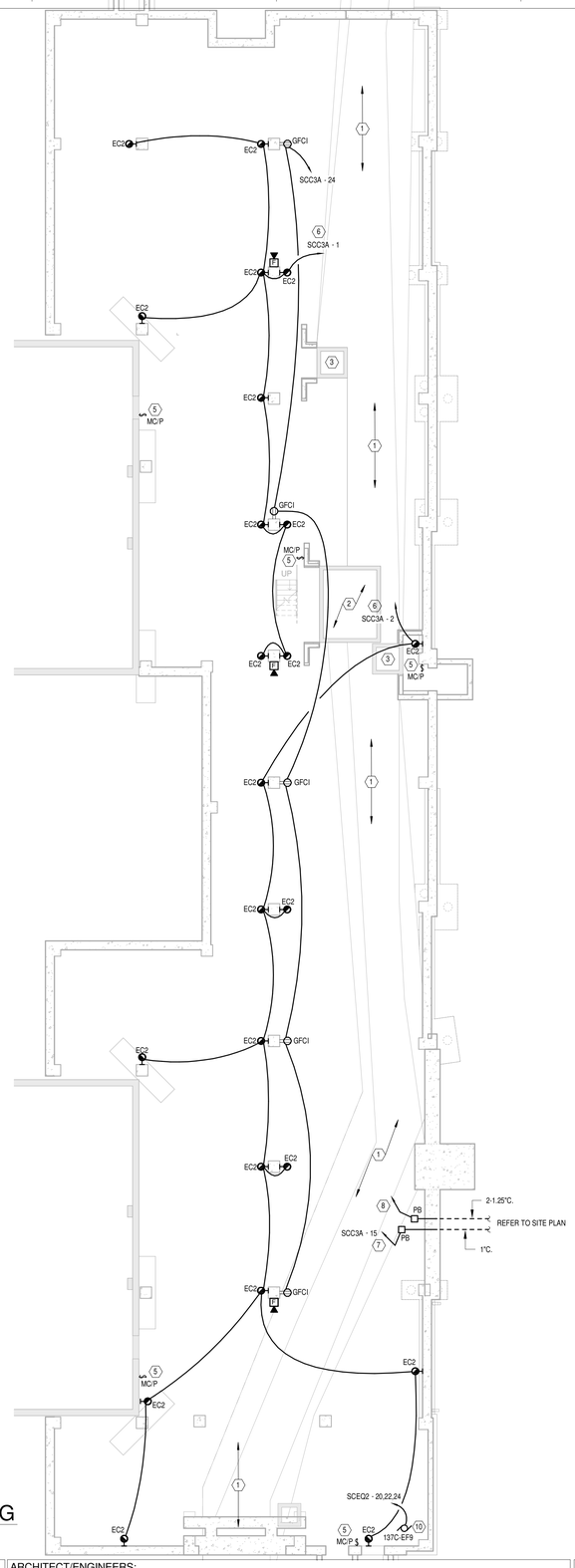
Date: 04/26/2013
Project No. 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-ED102
Dwg. 124 of 135

Department of Veterans Affairs



WEST PIPE BASEMENT - LIGHTING

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



EAST PIPE BASEMENT - LIGHTING

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

GENERAL NOTES

A (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND COMMON/SHARED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

B MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

C INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.

E REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

NOTES

1 EXISTING SCI PHASE 1 DUCTBANK.

2 EXISTING SCI PHASE 1 MANHOLE.

3 EXISTING SCI PHASE 1 HANDHOLE.

4 UNDER DEDUCT ALTERNATE 7, DELETE ALL WORK SHOWN IN THIS AREA .

5 RUN LOW VOLTAGE CABLE IN 0.75"C. TO CONTACTOR FOR CRAWL SPACE LIGHTING CONTROL.

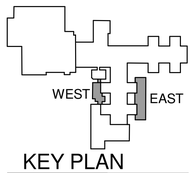
6 RUN CIRCUIT THROUGH LIGHTING CONTACTOR IN ROOM 1C216 FOR CONTROL.

7 RUN 2-#10, #10 GRD. IN 0.75"C. FOR CCTV/EMERGENCY PHONE POWER SUPPLIES.

8 RUN OSP CCTV/EMERGENCY PHONE CABLING IN 1"C. THROUGH CRAWLSPACE TO DATA 1C142.

9 UTILIZE SPARE 120V-20A/1P CIRCUIT BREAKER IN EXISTING PANEL.

10 PROVIDE NEW 208V-20A/3P CIRCUIT BREAKER IN EXISTING PANEL.



KEY PLAN

Scale: N.T.S.

Revisions	Date

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Drawing Title: PIPE BASEMENT - NEW WORK

Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No. 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-EL100
Dwg. 125 of 135

Department of Veterans Affairs

GENERAL NOTES

A (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND COMMON/SHARED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

B MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

C INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.

D WHERE SWITCHES ARE SHOWN IN SPACES CONTROLLED BY OCCUPANCY SENSORS, WIRE SENSOR RELAY PACK AHEAD OF LOCAL SWITCHING. (EXCEPT LIFE SAFETY CIRCUITS)

E REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

F REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.

G WIRE ALL EXIT SIGNS AHEAD OF LOCAL SWITCHING.

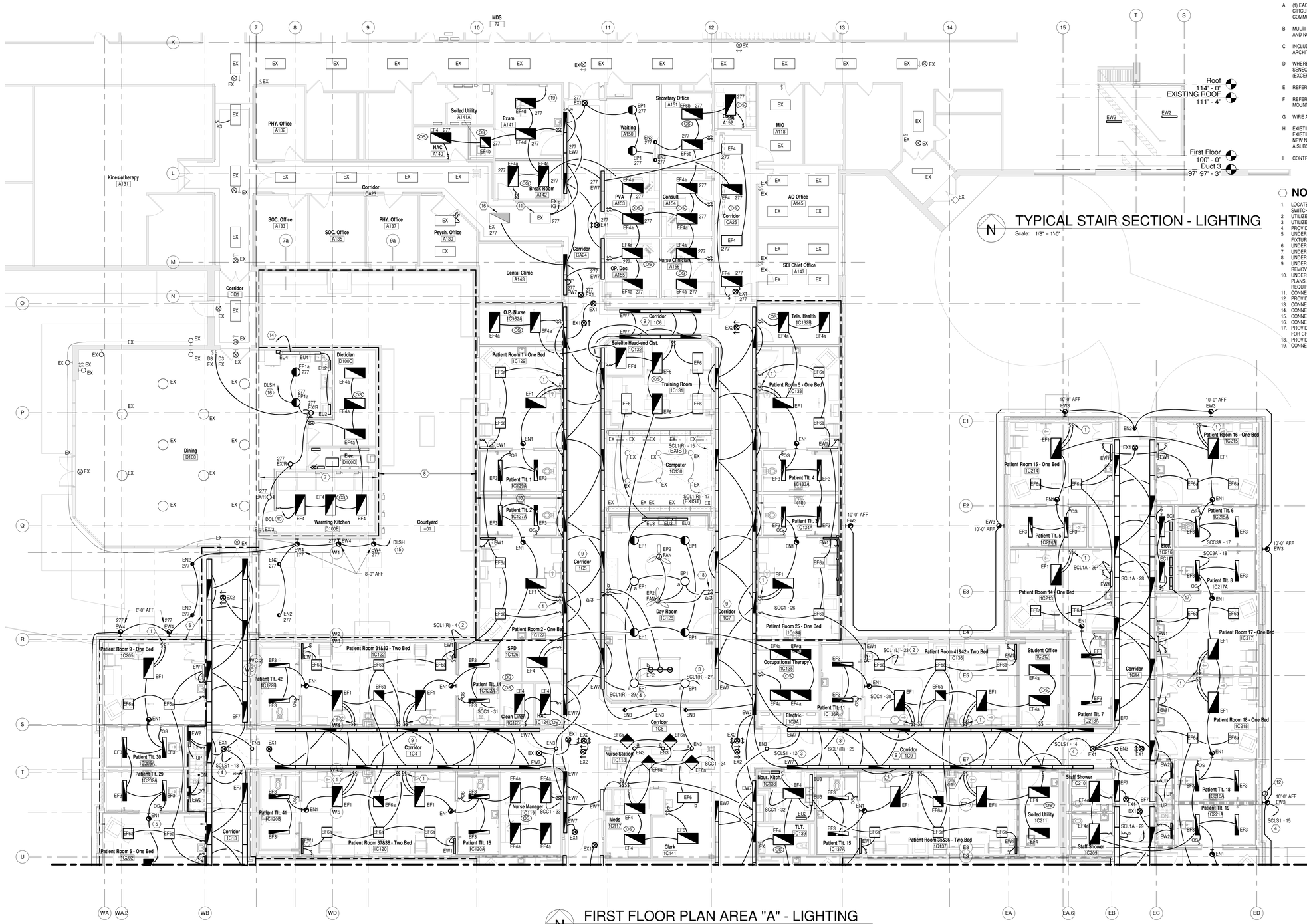
H EXISTING NORMAL POWER LIGHTING IS CURRENTLY 277V. EXISTING EMERGENCY POWER LIGHTING IS CURRENTLY 120V. NEW NORMAL POWER LIGHTING SHALL BE 120V UNLESS NOTED OTHERWISE WITH A SUBSCRIPT "277".

I CONTROL FIXTURE TYPE EN1 WITH BATHROOM LIGHTS (TYP.).

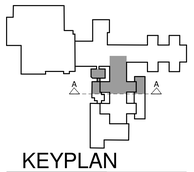
NOTES

1. LOCATE SWITCHES IN NEW PATIENT HEADWALL UNIT. ONE SWITCH CONTROLS NIGHT LIGHT, ONE SWITCH CONTROLS EXAM SECTION.
2. UTILIZE EXISTING 120V SOURCE CREATED FROM REMOVAL WORK.
3. UTILIZE SPARE 120V-20A/1P CIRCUIT BREAKER.
4. PROVIDE NEW 120V-20A/1P CIRCUIT BREAKER IN EXISTING PANEL.
5. UNDER DEDUCT ALTERNATE 6 DELETE ALL WORK SHOWN IN THIS AREA. PROVIDE LIGHTING FIXTURES TYPE EC1 10'-0" O.C. ON LIFE SAFETY CIRCUIT AND ONE SWITCH IN EACH SHELL SPACE.
6. UNDER DEDUCT ALTERNATE 7 DELETE ALL REMAINING WORK WITHIN WEST ADDITION.
7. UNDER DEDUCT ALTERNATE 5 DELETE ALL WORK ASSOCIATED WITH RESIDENT/WARMING KITCHEN.
8. UNDER DEDUCT ALTERNATE 4 DELETE ALL WORK ASSOCIATED WITH COURTYARD IMPROVEMENTS.
9. UNDER DEDUCT ALTERNATE 8 DELETE NEW CORRIDOR LIGHTING. EXISTING LIGHTING SHALL BE REMOVED AND REINSTALLED AS REQUIRED.
10. UNDER DEDUCT ALTERNATE 6 REVISE LIGHTING LAYOUT AS REQUIRED TO MATCH ARCHITECTURAL PLANS. PROVIDE ADDITIONAL EF1 FIXTURE, SWITCHES IN HEADWALL, LV CONTROLLER, ETC. AS REQUIRED FOR EACH BED ADDED.
11. CONNECT TO EXISTING 277V NORMAL POWER LIGHTING CIRCUIT.
12. PROVIDE 120V-20A SPECIFICATION GRADE PHOTOCELL MOUNTED ON ROOF.
13. CONNECT TO EXISTING 120V CRITICAL BRANCH LIGHTING CIRCUIT.
14. CONNECT TO LOCAL 120V RECEPTACLE CIRCUIT.
15. CONNECT TO EXISTING 277V LIFE SAFETY PHOTOCELL CONTROLLED SECURITY LIGHTING CIRCUIT.
16. CONNECT TO EXISTING 277V LIFE SAFETY LIGHTING CIRCUIT.
17. PROVIDE SPECIFICATION GRADE 30A RATED 4 POLE MECHANICALLY HELD LIGHTING CONTACTOR FOR CRAWLSPACE LIGHTING CONTROL.
18. PROVIDE FAN SPEED CONTROLLER.
19. CONNECT TO 277V CRITICAL BRANCH LIGHTING CIRCUIT.

N TYPICAL STAIR SECTION - LIGHTING
Scale: 1/8" = 1'-0"



N FIRST FLOOR PLAN AREA "A" - LIGHTING
Scale: 1/8" = 1'-0"



KEYPLAN
Scale: N.T.S.

Revisions	Date

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Drawing Title: FIRST FLOOR AREA "A" - LIGHTING

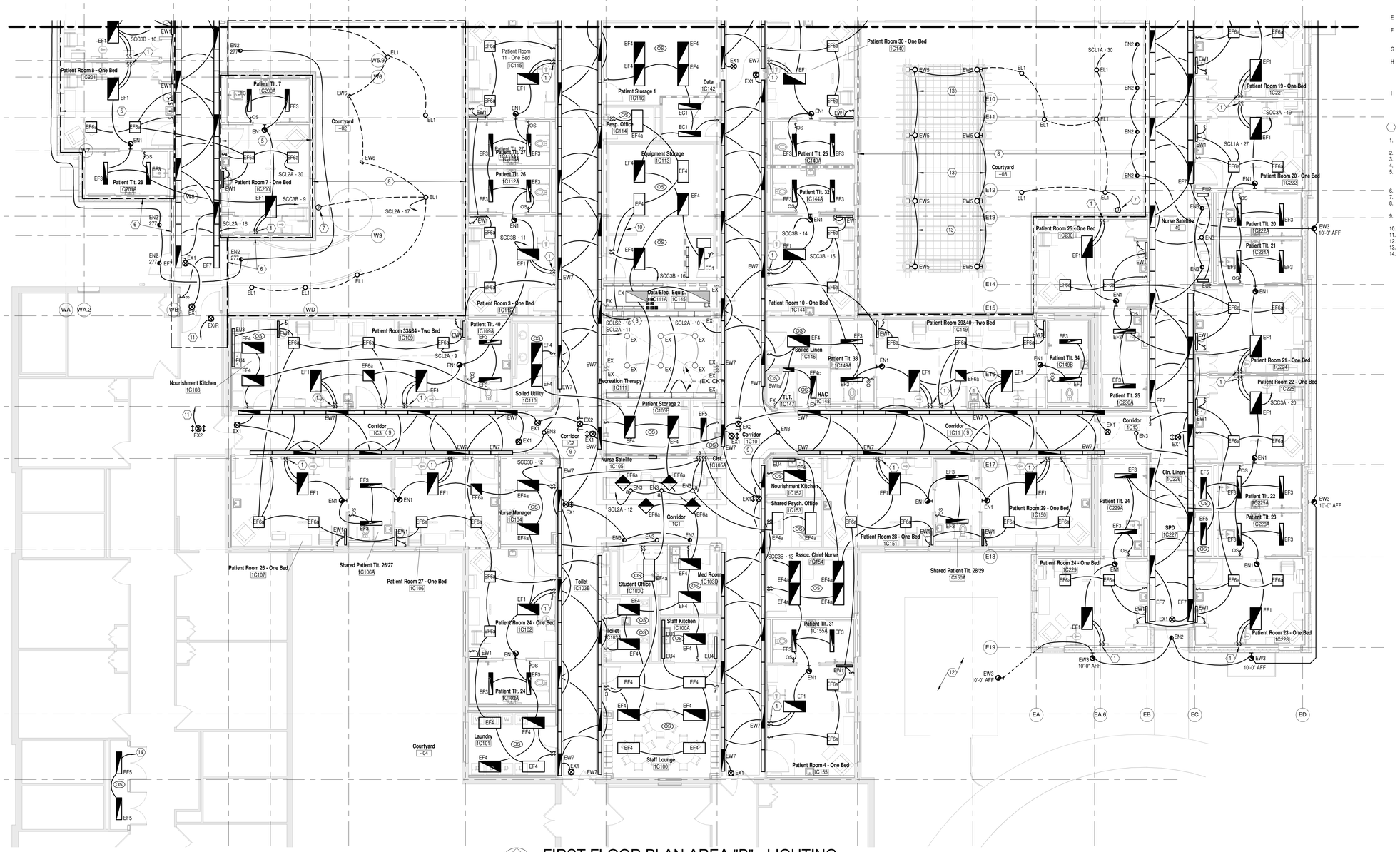
Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-EL101
Dwg. 126 of 135

Department of Veterans Affairs



N

FIRST FLOOR PLAN AREA "B" - LIGHTING

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

GENERAL NOTES

A (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND COMMON/SHARED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

B MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

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E REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

F REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.

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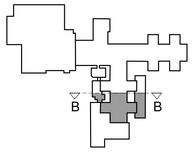
I CONTROL FIXTURE TYPE EN1 WITH BATHROOM LIGHTS (TYP.).

NOTES

1. LOCATE SWITCHES IN NEW PATIENT HEADWALL UNIT. ONE SWITCH CONTROLS NIGHT LIGHT, ONE SWITCH CONTROLS EXAM SECTION.
2. UTILIZE EXISTING 120V SOURCE CREATED FROM REMOVAL WORK.
3. UTILIZE SPARE 120V-20A/1P CIRCUIT BREAKER.
4. PROVIDE NEW 120V-20A/1P CIRCUIT BREAKER IN EXISTING PANEL.
5. UNDER DEDUCT ALTERNATE 6 DELETE ALL WORK SHOWN IN THIS AREA. PROVIDE LIGHTING FIXTURES TYPE EC1 10'-0" O.C. ON LIFE SAFETY CIRCUIT AND ONE SWITCH IN EACH SHELL SPACE.
6. UNDER DEDUCT ALTERNATE 7 DELETE ALL REMAINING WORK WITHIN WEST ADDITION.
7. PROVIDE 120V-20A SPECIFICATION GRADE PHOTOCELL MOUNTED ON ROOF.
8. UNDER DEDUCT ALTERNATE 4 DELETE ALL WORK ASSOCIATED WITH COURTYARD IMPROVEMENTS.
9. UNDER DEDUCT ALTERNATE 8 DELETE NEW CORRIDOR LIGHTING. EXISTING LIGHTING SHALL BE REMOVED AND REINSTALLED AS REQUIRED.
10. CONNECT TO EXISTING 120V NORMAL POWER LIGHTING CIRCUIT.
11. CONNECT TO EXISTING 120V LIFE SAFETY LIGHTING CIRCUIT.
12. RELOCATED SMOKING SHELTER.
13. RUN CONDUIT OVERHEAD ADJACENT TO PERGOLA RAFTERS. PAINT TO MATCH.
14. CONNECT TO LOCAL 120V CRITICAL BRANCH POWER LIGHTING CIRCUIT.



KEY PLAN

Scale: N.T.S.

Revisions	Date

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Drawing Title: FIRST FLOOR AREA "B" - LIGHTING

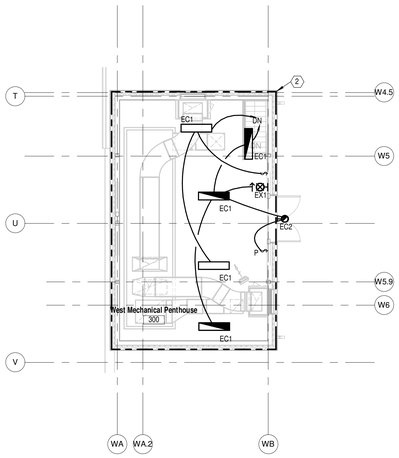
Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

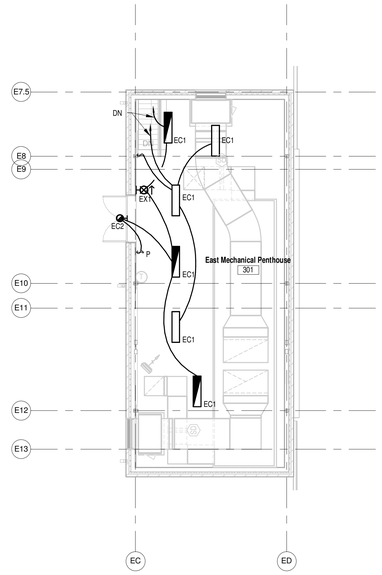
Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No. 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-EL102
Dwg. 127 of 135

Department of Veterans Affairs



N WEST PENTHOUSE PLAN - LIGHTING
Scale: 1/8" = 1'-0"



N EAST PENTHOUSE PLAN - LIGHTING
Scale: 1/8" = 1'-0"

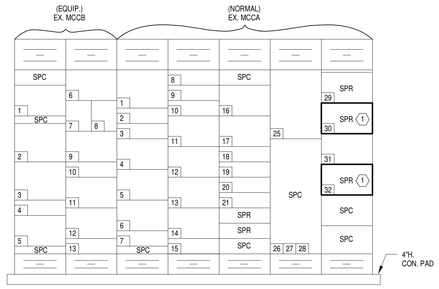
MCCA LOAD SCHEDULE

1. EX. LP1
2. EX. CT FANS
3. EX. SPARE
4. EX. AHU2 SUPPLY
5. EX. SPARE
6. EX. SPARE
7. EX. PUMP 2
8. EX. COND. WATER PUMPS 1/2
9. EX. PUMP 1
10. EX. SPARE
11. EX. P-7
12. ?
13. EX. SPARE
14. EX. P-3
15. EX. EF15
16. EX. RF14
17. EX. AHU-2R
18. EX. RF16
19. EX. HV-1
20. EX. PSYCH EF
21. EX. PSYCH EF
22. EX. SPARE
23. EX. SPARE
24. EX. SPARE
25. EX. 340 TON CHILLER
26. EX. SPACE
27. EX. SPACE
28. EX. SPACE
29. EX. SPARE
30. NEW 137C-CWP1
31. EX. P-4
32. NEW 137C-CWP1

MCCB LOAD SCHEDULE

1. EX. REHEAT PUMP 2N/2S
2. EX. DINING
3. EX. XFMR T-11
4. EX. AHU7
5. EX. CHHW PUMP 5 (2N)
6. EX. XFMR T-10
7. EX. SPARE
8. EX. AHU-1R
9. EX. AHU-S-1
10. EX. AIR COMP.
11. EX. CWP-1
12. EX. XFMR EQ/LSL
13. EX. AHU-8

SQUARE D MODEL 6



A EXISTING MCCA/MCCB ELEVATION
Scale: 1/2" = 1'-0"

GENERAL NOTES

A (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

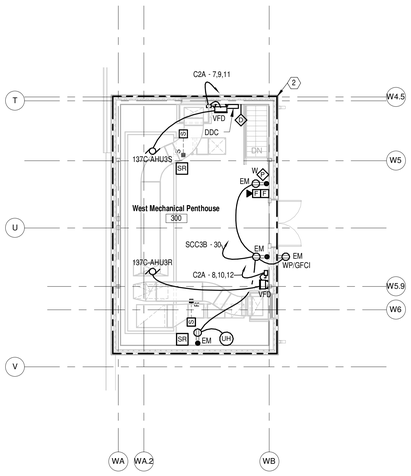
B MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

C INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.

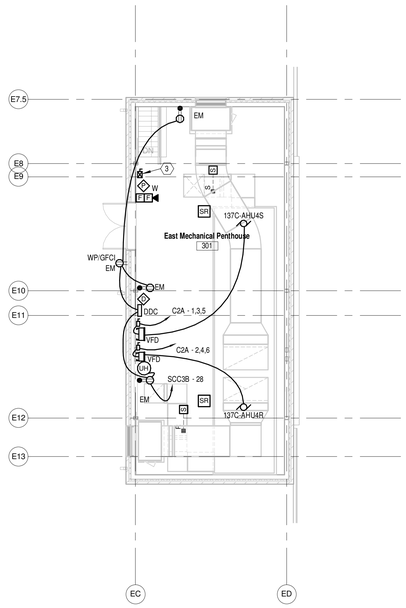
D REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

NOTES

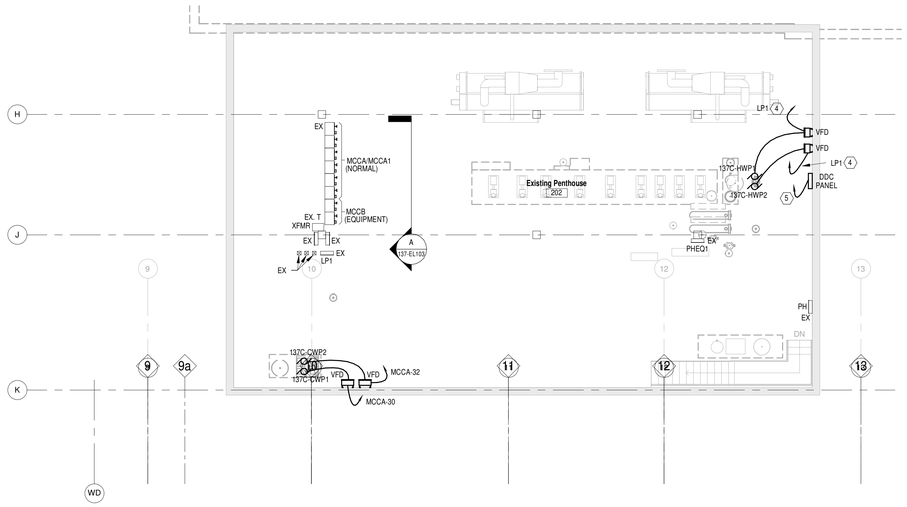
1. UTILIZE SPARE BUCKET FOR NEW PUMP SOURCE. PROVIDE NEW 480V-30A/3P CIRCUIT BREAKER.
2. UNDER DEDUCT ALTERNATE 7 DELETE ALL WORK SHOWN IN THIS AREA.
3. STARTER FOR 137-EF3.
4. PROVIDE NEW 480V-20A/3P CIRCUIT BREAKER IN EXISTING PANEL.
5. CONNECT TO LOCAL EM POWER DDC PANEL 120V-20A CIRCUIT.



N WEST PENTHOUSE PLAN - POWER & SIGNALS
Scale: 1/8" = 1'-0"



N EAST PENTHOUSE PLAN - POWER & SIGNALS
Scale: 1/8" = 1'-0"



N EXIST. PENTHOUSE PLAN - POWER
Scale: 1/8" = 1'-0"

Revisions	Date

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Drawing Title: PENTHOUSE PLANS - LIGHTING, POWER, SIGNALS

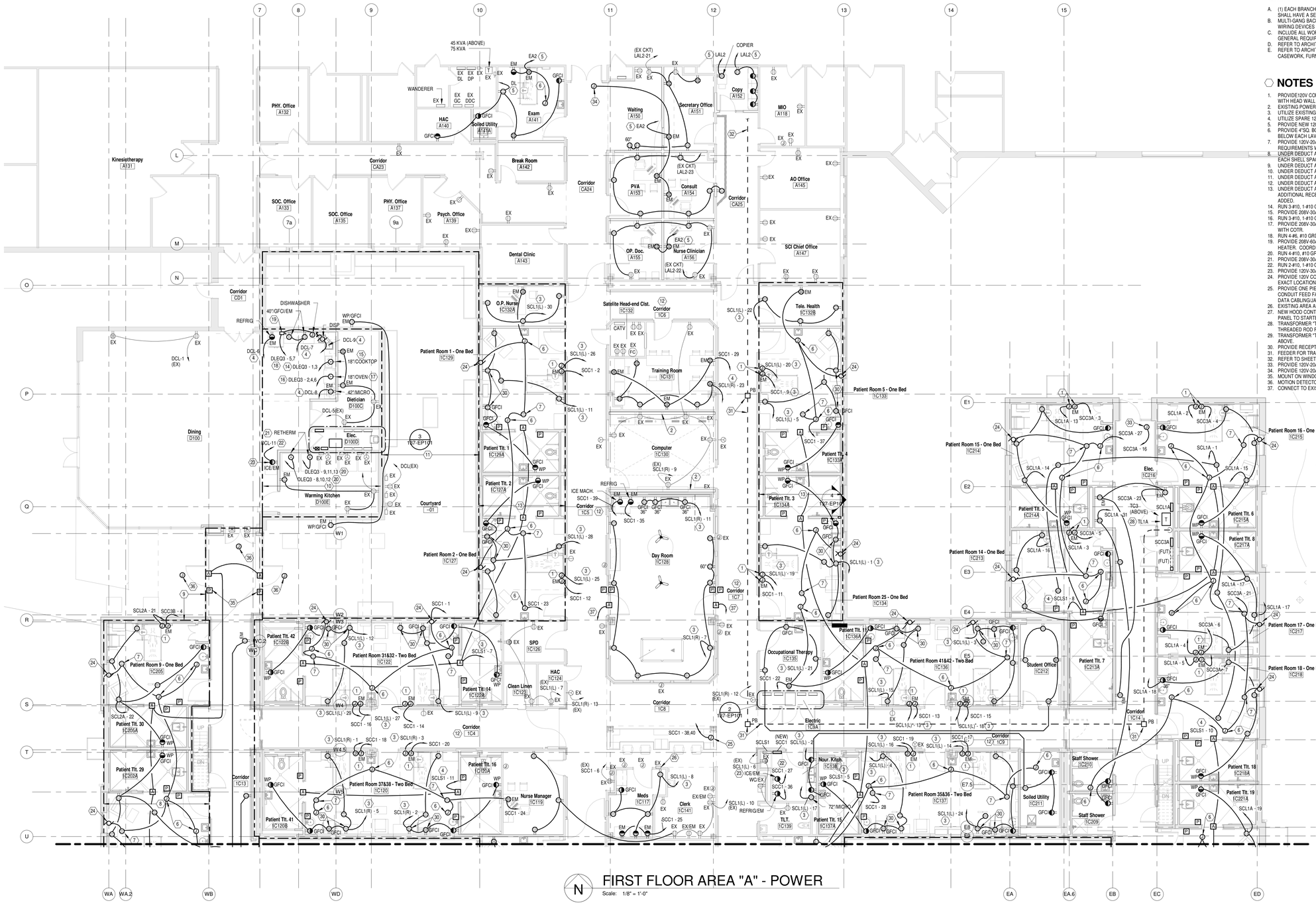
Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No. 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-EL103
Dwg. 128 of 135

Department of Veterans Affairs



N FIRST FLOOR AREA "A" - POWER

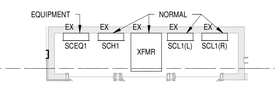
Scale: 1/8" = 1'-0"

GENERAL NOTES

A. (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
B. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.
C. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
D. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
E. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.

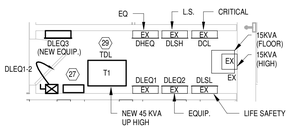
NOTES

1. PROVIDE120V CONNECTION TO NORMAL AND EM RECEPTACLES IN PATIENT HEAD WALL UNIT. RECEPTACLES PROVIDED WITH HEAD WALL UNIT.
2. EXISTING POWER RACEWAY.
3. UTILIZE EXISTING 120V SOURCE CREATED FROM REMOVAL WORK.
4. UTILIZE SPARE 120V-20A/1P CIRCUIT BREAKER.
5. PROVIDE NEW 120V-20A/1P CIRCUIT BREAKER IN EXISTING PANEL.
6. PROVIDE 4"SQ. BOX AND 120V-20A CONNECTION TO LAVATORY TRANSFORMER PROVIDED BY DIV 22. PROVIDE 0.75"C. TO BELOW EACH LAVATORY WITH SENSOR. LOW VOLTAGE WIRING BY DIV 22. COORDINATE ALL REQUIREMENTS WITH DIV 22.
7. PROVIDE 120V-20A DUPLEX RECEPTACLE FLUSH IN CEILING FOR PATIENT LIFT. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH DIV. 01.
8. UNDER DEDUCT ALTERNATE 6 DELETE ALL WORK SHOWN IN THIS AREA. PROVIDE ONE GFCI DUPLEX RECEPTACLE IN EACH SHELL SPACE.
9. UNDER DEDUCT ALTERNATE 7 DELETE ALL REMAINING WORK WITHIN WEST ADDITION.
10. UNDER DEDUCT ALTERNATE 5 DELETE ALL WORK ASSOCIATED WITH RESIDENT/WARMING KITCHEN.
11. UNDER DEDUCT ALTERNATE 4 DELETE ALL WORK ASSOCIATED WITH COURTYARD IMPROVEMENTS.
12. UNDER DEDUCT ALTERNATE 8 REMOVE AND REINSTALL CEILING TILES AS REQUIRED FOR NEW WORK.
13. UNDER DEDUCT ALTERNATE 8 REVISE POWER LAYOUT AS REQUIRED TO MATCH ARCHITECTURAL PLANS. PROVIDE ADDITIONAL RECEPTACLES, HEADWALL POWER CONNECTIONS, TV/LIFT RECEPTACLE, ETC. AS REQUIRED FOR EACH BED ADDED.
14. RUN 3-#10, 1-#10 GRD. IN 0.75"C.
15. PROVIDE 208V-30A/1PH RECEPTACLE FOR BUILT-IN COOKTOP. COORDINATE EXACT NEMA CONFIGURATION WITH COTR.
16. RUN 3-#10, 1-#10 GRD. IN 0.75"C.
17. PROVIDE 208V-30A/3PH RECEPTACLE FOR COUNTERTOP CONVECTION OVEN. COORDINATE EXACT NEMA CONFIGURATION WITH COTR.
18. RUN 4-#6, #10 GRD. IN 0.75"C.
19. PROVIDE 208V-60A/3P NEMA 3R DISCONNECT SWITCH MOUNTED UNDER COUNTERTOP FOR DISHWASHER/BOOSTER HEATER. COORDINATE EXACT LOCATION WITH COTR.
20. RUN 4-#10, #10 GRD. IN 0.75"C.
21. PROVIDE 208V-30A/3PH RECEPTACLE FOR RETHERM CARTS. COORDINATE EXACT NEMA CONFIGURATION WITH COTR.
22. RUN 2-#10, 1-#10 GRD. IN 0.75"C. PROVIDE NEW 120V-30A/1P CIRCUIT BREAKER IN EXISTING PANEL.
23. PROVIDE 120V-30A/1PH RECEPTACLE FOR ICE MACHINE. COORDINATE EXACT NEMA CONFIGURATION WITH COTR.
24. PROVIDE 120V CONNECTION TO MOTORIZED BLACKOUT AND SCREEN SHADE. COORDINATE ALL REQUIREMENTS AND EXACT LOCATION WITH DIV. 01. UNDER DEDUCT ALTERNATE 1 DELETE 120V CONNECTION.
25. PROVIDE ONE PIECE FLUSH FURNITURE FEED FIRE RATED POKE THROUGH WITH 1-0.75"C. AND 1-1.5"C. THREADED CONDUIT FEED FACEPLATE. UTILIZE 0.75"C. FOR POWER CONNECTION TO PREWIRED SYSTEMS FURNITURE AND 1.5"C. FOR DATA CABLING/JACK BY DIV. 26. COORDINATE EXACT REQUIREMENT LOCATION WITH COTR.
26. EXISTING AREA ALARM PANEL TO REMAIN.
27. NEW HOOD CONTROL PANEL FOR EXHAUST FAN 137-EF7 BY DIV. 23. PROVIDE 120V CONTROL/SUPPLY CIRCUIT FROM PANEL TO STARTER. PROVIDE 120V CONTROL CIRCUIT TO NEW COOKTOP/OVEN SHUNT TRIP BREAKERS.
28. TRANSFORMER "TL1A" SHALL BE FLOOR SET. HANG TRANSFORMER "TC3" ABOVE UTILIZING METAL STRUT FRAMING AND THREADED ROD FROM STRUCTURE ABOVE.
29. TRANSFORMER "TDL" SHALL HANG ABOVE UTILIZING METAL STRUT FRAMING AND THREADED ROD FROM STRUCTURE ABOVE.
30. PROVIDE RECEPTACLE MOUNTED IN SURFACE METAL RACEWAY. REFER TO DETAIL 4/137-EP101.
31. FEEDER FOR TRANSFORMER "TC3" RUN IN CRAWLSPACE. PROVIDE PULLBOXES AS REQUIRED BY N.E.C.
32. REFER TO SHEET 137-EP105 FOR CONTINUATION.
33. PROVIDE 120V-20A CIRCUIT TO EMERGENCY EXIT DOOR ALARM.
34. PROVIDE 120V-20A CIRCUIT TO ACCESS CONTROL POWER SUPPLY.
35. MOUNT ON WINDOW SYSTEM FRAME. COORDINATE WITH WINDOW MANUFACTURER.
36. MOTION DETECTOR FOR AUTOMATIC DOOR. PROVIDE BACKBOX AND CONDUIT TO COTROL PANEL.
37. CONNECT TO EXISTING AUTOMATIC DOOR CIRCUIT.



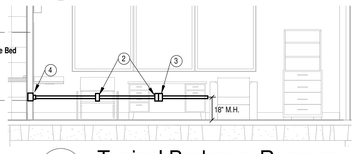
2 Enlarged Electric 1C9A

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



3 Enlarged Electric D100D

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

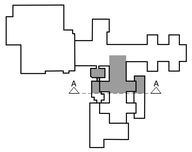


4 Typical Bedroom Raceway

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

DETAIL NOTES

1. TWO CHANNEL SURFACE MOUNTED STEEL RACEWAY, 2"W x 1" DP. RACEWAY SHALL RUN FROM UNDER SINK TO END OF DESK. PROVIDE LENGTH AS REQUIRED TO MEET THIS CRITERIA PER ROOM. PROVIDE ALL REQUIRED FITTINGS(S), PARTS, OFFSETS, ETC. FOR A COMPLETE SYSTEM.
2. 120V-20A HOSPITAL GRADE DUPLEX RECEPTACLE IN A FORWARD FACING ACTIWATION.
3. FOUR DATA JACKS (REFER TO SIGNALS PLAN) IN A FORWARD FACING ACTIWATION.
4. RECESSED DIVIDED JUNCTION BOX FOR CABLE/WIRE ENTRY UNDER SINK.



KEYPLAN

12" = 1'-0"

Revisions	Date

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Drawing Title: FIRST FLOOR AREA "A" - POWER

Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137 | Checked: LLC | Drawn: MSG

Location: Hampton, VA.

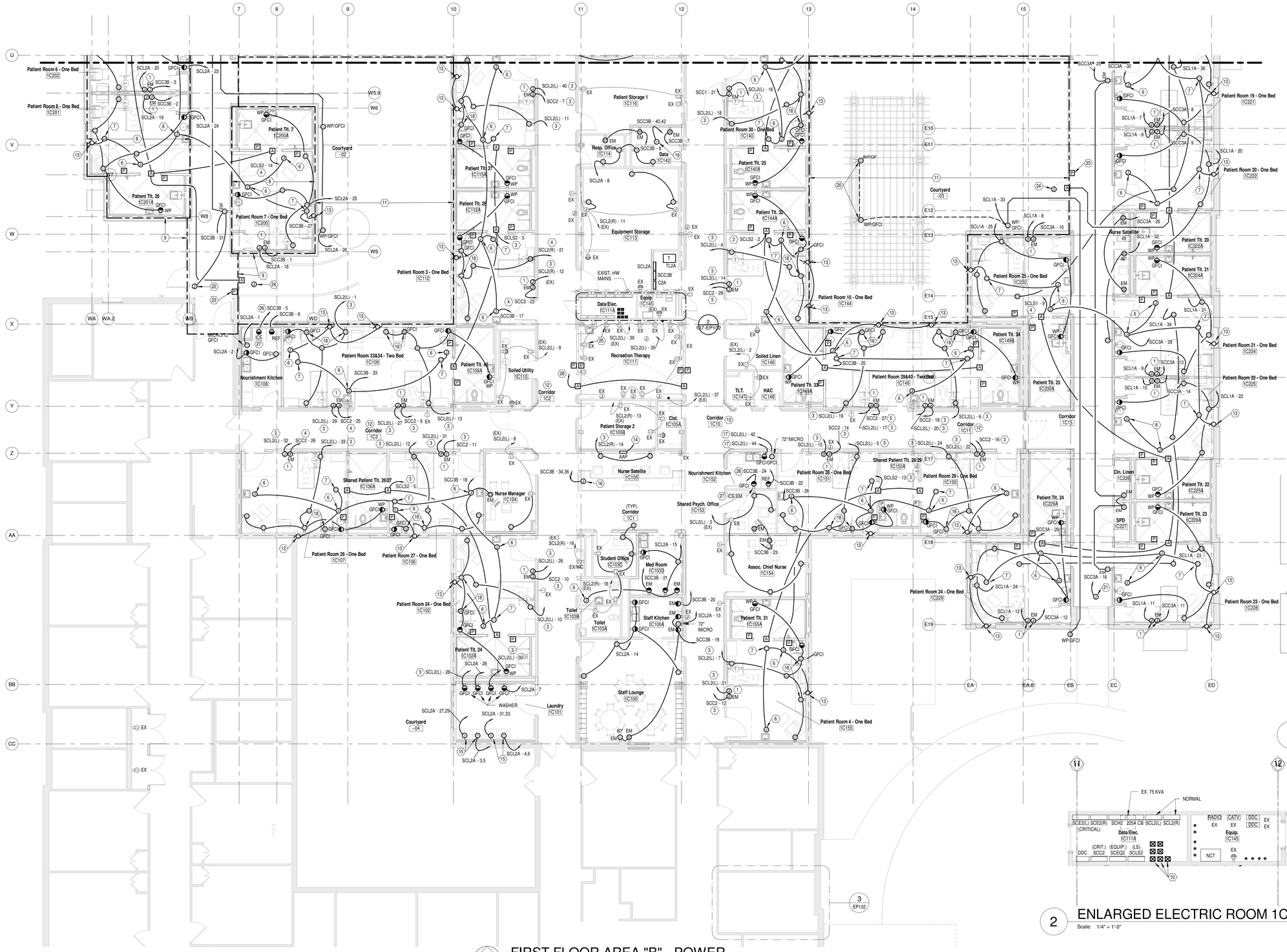
Date: 04/26/2013

Project No. 590-911
RDC/JPA Project No. 11004.00

Drawing Number: 137-EP101

Dwg. 129 of 135

Department of Veterans Affairs



FIRST FLOOR AREA "B" - POWER

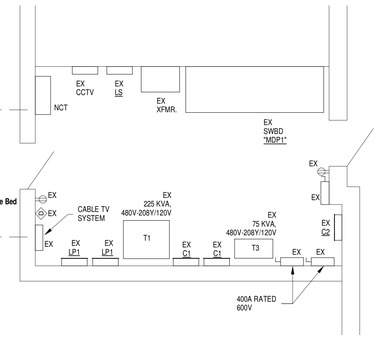
N Scale: 1/8" = 1'-0"

GENERAL NOTES

A. (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
B. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.
C. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
D. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
E. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.

NOTES

1. PROVIDE120V CONNECTION TO NORMAL AND EM RECEPTACLES IN PATIENT HEAD WALL UNIT. RECEPTACLES PROVIDED WITH HEAD WALL UNIT.
2. EXISTING POWER RACEWAY.
3. UTILIZE EXISTING 120V SOURCE CREATED FROM REMOVAL WORK.
4. UTILIZE SPARE 120V-20A/1P CIRCUIT BREAKER.
5. PROVIDE NEW 120V-20A/1P CIRCUIT BREAKER IN EXISTING PANEL.
6. PROVIDE 4"SQ. BOX AND 120V-20A CONNECTION TO LAVATORY TRANSFORMER PROVIDED BY DIV 22. PROVIDE 0.75"C. TO BELOW EACH LAVATORY WITH SENSOR. LOW VOLTAGE WIRING BY DIV 22. COORDINATE ALL REQUIREMENTS WITH DIV 22.
7. PROVIDE 120V-20A DUPLEX RECEPTACLE FLUSH IN CEILING FOR PATIENT LIFT. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH DIV. 01.
8. UNDER DEDUCT ALTERNATE 6 DELETE ALL WORK SHOWN IN THIS AREA. PROVIDE ONE GFCI DUPLEX RECEPTACLE IN EACH SHELL SPACE.
9. UNDER DEDUCT ALTERNATE 7 DELETE ALL REMAINING WORK WITHIN WEST ADDITION.
10. STARTERS FOR 137C-EF1, EF2, EF4, EF5, EF6, EF8, EF9. STACK VERTICALLY.
11. UNDER DEDUCT ALTERNATE 4 DELETE ALL WORK ASSOCIATED WITH COURTYARD IMPROVEMENTS.
12. UNDER DEDUCT ALTERNATE 8 REMOVE AND REINSTALL CEILING TILES AS REQUIRED FOR NEW WORK.
13. PROVIDE 120V CONNECTION TO MOTORIZED BLACKOUT AND SCREEN SHADE. COORDINATE ALL REQUIREMENTS AND EXACT LOCATION WITH DIV. 01. UNDER DEDUCT ALTERNATE 1 DELETE 120V CONNECTION.
14. CONNECT TO EXISTING 120V-20A LIFE SAFETY CIRCUIT PRESENTLY SERVING AREA ALARM PANEL.
15. PROVIDE 208V-30A/1PH RECEPTACLE FOR RESIDENTIAL DRYER. RUN 3-#10, 1-#10GRD. IN 0.75"C.
16. PROVIDE ONE PIECE FLUSH FURNITURE FEED FIRE RATED POKE THROUGH WITH 1-0.75"C. AND 1-1.3"C. THREADED CONDUIT FEED FACEPLATE. UTILIZE 0.75"C. FOR POWER CONNECTION TO PREWIRED SYSTEMS FURNITURE AND 1.5"C. FOR DATA CABLING/JACK BY DIV. 26. COORDINATE EXACT REQUIREMENT LOCATION WITH COTR.
17. REMOVE 50A/2P CIRCUIT BREAKER AND PROVIDE NEW 120V-20A/1P CIRCUIT BREAKER.
18. PROVIDE RECEPTACLE MOUNTED IN SURFACE METAL RACEWAY. REFER TO DETAIL 4/137-EP101.
19. PROVIDE 208V-30A/1PH NEMA L6-30R RECEPTACLE MOUNTED (ISOLATED) TO CENTER RELAY RACK FRAME. COORDINATE EXACT LOCATION WITH COTR. RUN 2-#10, #10 GRD. IN 0.75"C.
20. RUN CONDUIT UP BACKSIDE OF WOOD POLE AND DRILL THROUGH TO BOX.
21. PROVIDE 120V-20A CIRCUIT TO EMERGENCY EXIT DOOR ALARM.
22. PROVIDE 120V-20A CIRCUIT TO ACCESS CONTROL POWER SUPPLY.
23. MOUNT ON WINDOW SYSTEM FRAME. COORDINATE WITH WINDOW SYSTEM MANUFACTURER.
24. MOTION DETECTOR FOR AUTOMATIC DOOR. PROVIDE BACKBOX AND CONDUIT TO CONTROL PANEL.
25. REPLACE WITH GFCI TYPE RECEPTACLES.
26. RUN 2-#10, 1-#10 GRD. IN 0.75"C.
27. PROVIDE 120V-30A/1PH RECEPTACLE FOR ICE MACHINE. COORDINATE EXACT NEMA CONFIGURATION WITH COTR.
28. CONNECT TO EXISTING AUTOMATIC DOOR CIRCUIT.

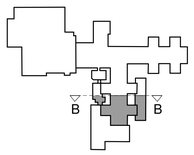


3 PHASE 1 - ELECTRIC 1C161

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

2 ENLARGED ELECTRIC ROOM 1C11A

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



KEY PLAN

12" = 1'-0"

Revisions	Date

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Drawing Title: FIRST FLOOR AREA "B" - POWER

Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-EP102
Dwg. 130 of 135

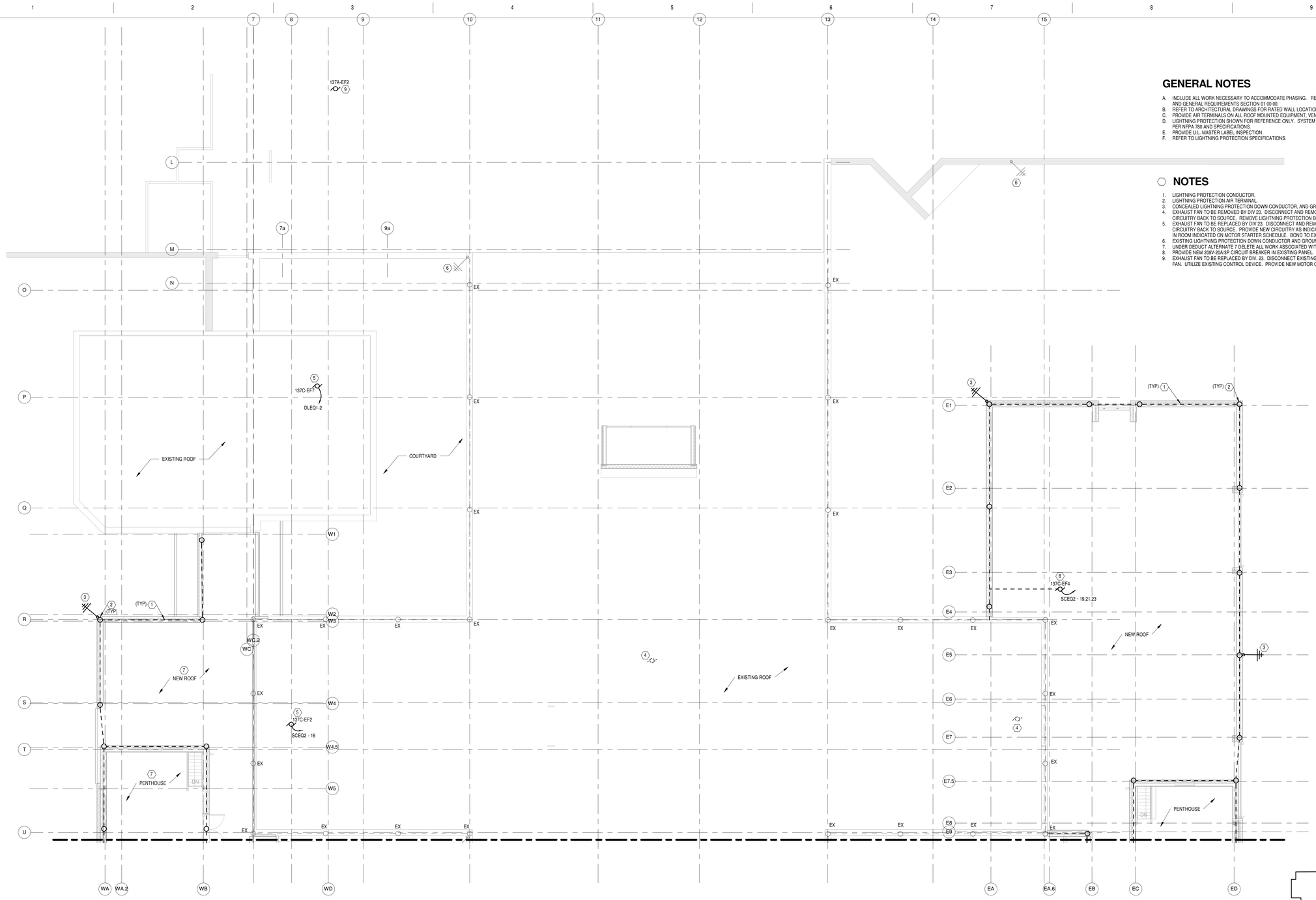
Department of Veterans Affairs

GENERAL NOTES

A. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
B. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
C. PROVIDE AIR TERMINALS ON ALL ROOF MOUNTED EQUIPMENT, VENTS, ETC.
D. LIGHTNING PROTECTION SHOWN FOR REFERENCE ONLY. SYSTEM SHALL BE DESIGNED AND INSTALLED PER NFPA 780 AND SPECIFICATIONS.
E. PROVIDE U.L. MASTER LABEL INSPECTION.
F. REFER TO LIGHTNING PROTECTION SPECIFICATIONS.

NOTES

1. LIGHTNING PROTECTION CONDUCTOR.
2. LIGHTNING PROTECTION AIR TERMINAL.
3. CONCEALED LIGHTNING PROTECTION DOWN CONDUCTOR, AND GROUND ROD.
4. EXHAUST FAN TO BE REMOVED BY DIV 23. DISCONNECT AND REMOVE SAFETY SWITCH/ CONTROL AND CIRCUITRY BACK TO SOURCE. REMOVE LIGHTNING PROTECTION BOND AS REQUIRED.
5. EXHAUST FAN TO BE REPLACED BY DIV 23. DISCONNECT AND REMOVE SAFETY SWITCH/ CONTROL AND CIRCUITRY BACK TO SOURCE. PROVIDE NEW CIRCUITRY AS INDICATED. RUN THROUGH MOTOR STARTER IN ROOM INDICATED ON MOTOR STARTER SCHEDULE. BOND TO EXISTING LIGHTNING PROTECTION SYSTEM.
6. EXISTING LIGHTNING PROTECTION DOWN CONDUCTOR AND GROUND ROD.
7. UNDER DEDUCT ALTERNATE 7 DELETE ALL WORK ASSOCIATED WITH WEST ADDITION.
8. PROVIDE NEW 208V-20A-3P CIRCUIT BREAKER IN EXISTING PANEL.
9. EXHAUST FAN TO BE REPLACED BY DIV. 23. DISCONNECT EXISTING FAN AND RECONNECT CIRCUIT TO NEW FAN. UTILIZE EXISTING CONTROL DEVICE. PROVIDE NEW MOTOR OVERLOADS AS REQUIRED.



ROOF PLAN AREA "A" - POWER AND LIGHTNING PROTECTION

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

KEYPLAN

Scale: N.T.S.

Revisions	Date

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Drawing Title: ROOF PLAN AREA "A" - POWER AND LIGHTNING PROTECTION

Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-EP103
Dwg. 131 of 135

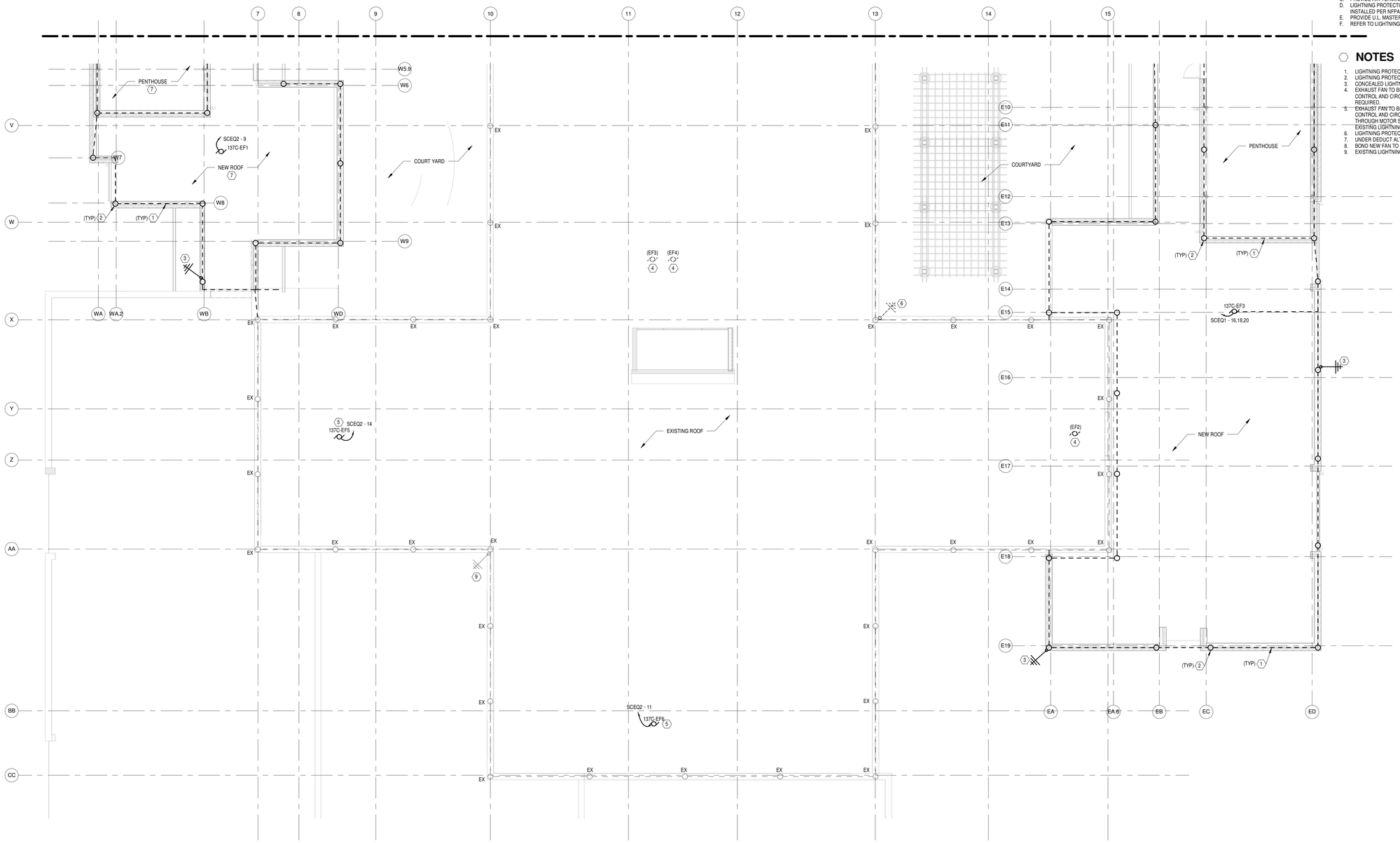
Department of Veterans Affairs

GENERAL NOTES

A. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
B. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
C. PROVIDE AIR TERMINALS ON ALL ROOF MOUNTED EQUIPMENT, VENTS, ETC.
D. LIGHTNING PROTECTION SHOWN FOR REFERENCE ONLY. SYSTEM SHALL BE DESIGNED AND INSTALLED PER NFPA 780 AND SPECIFICATIONS.
E. PROVIDE U.L. MASTER LABEL INSPECTION.
F. REFER TO LIGHTNING PROTECTION SPECIFICATIONS.

NOTES

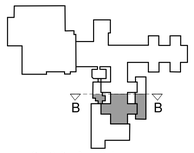
1. LIGHTNING PROTECTION CONDUCTOR.
2. LIGHTNING PROTECTION AIR TERMINAL.
3. CONCEALED LIGHTNING PROTECTION DOWN CONDUCTOR.
4. EXHAUST FAN TO BE REMOVED BY DIV 23. DISCONNECT AND REMOVE SAFETY SWITCH/ CONTROL AND CIRCUITRY BACK TO SOURCE. REMOVE LIGHTNING PROTECTION BOND AS REQUIRED.
5. EXHAUST FAN TO BE REPLACED BY DIV 23. DISCONNECT AND REMOVE SAFETY SWITCH/ CONTROL AND CIRCUITRY BACK TO SOURCE. PROVIDE NEW CIRCUITRY AS INDICATED. RUN THROUGH MOTOR STARTER IN ROOM INDICATED ON MOTOR STARTER SCHEDULE. BOND TO EXISTING LIGHTNING PROTECTION SYSTEM.
6. LIGHTNING PROTECTION DOWN CONDUCTOR AND GROUND ROD TO BE REMOVED.
7. UNDER DEDUCT ALTERNATE 7 DELETE ALL WORK ASSOCIATED WITH WEST ADDITION.
8. BOND NEW FAN TO EXISTING LIGHTNING PROTECTION SYSTEM.
9. EXISTING LIGHTNING PROTECTION DOWN CONDUCTOR AND GROUND ROD.



ROOF PLAN AREA "B" - POWER AND LIGHTNING PROTECTION

N

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



KEY PLAN

Scale: N.T.S.

Revisions	Date

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Drawing Title: ROOF PLAN AREA "B" - POWER AND LIGHTNING PROTECTION

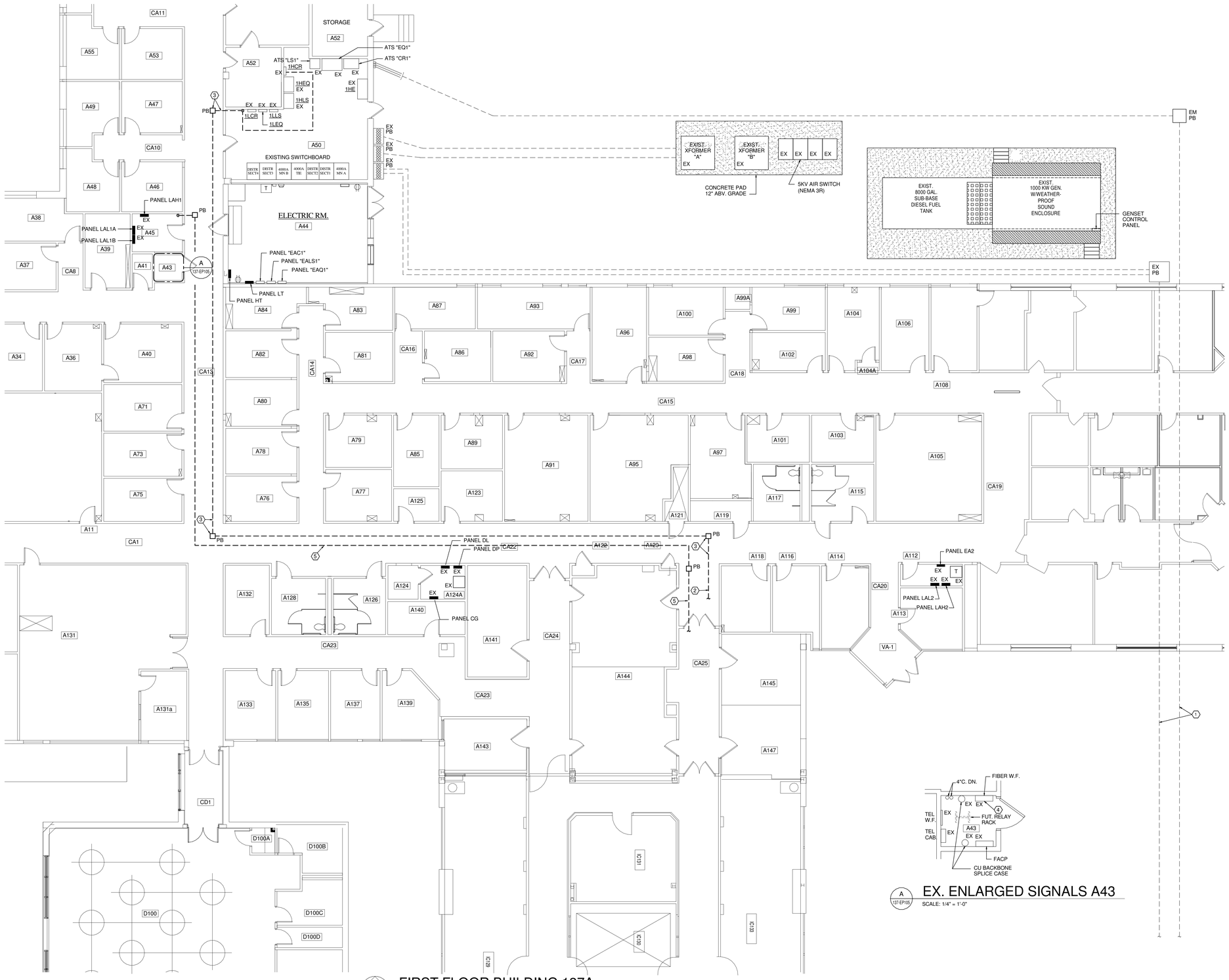
Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-EP104
Dwg. 132 of 135

Department of Veterans Affairs



GENERAL NOTES

A. (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
B. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.
C. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
D. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
E. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.
F. REFER TO REMOVAL/NEW WORK PLANS FOR ADDITIONAL/RENOVATION WORK WITHIN PROJECT SCOPE.

NOTES

1. EXISTING CONCRETE ENCASED DUCTBANK (NORMAL POWER SCI-PHASE 1, EM POWER SCI-PHASE 1 AND 7-4"C. SPARE).
2. REFER TO 137-EP101 FOR CONTINUATION.
3. FEEDER FOR TRANSFORMER "TC3" RUN IN CRAWLSPACE. PROVIDE PULLBOXES AS REQUIRED BY N.E.C.
4. PROVIDE NEW FIBER TERMINATION CABINET, WALL MOUNTED FOR NEW FIBER FEED. COORDINATE FINAL LOCATION WITH OWNER. REFER TO DETAIL 2, SHEET 137-E502.
5. EXTEND NEW FIBER IN 1-2" CONDUIT IN CRAWLSPACE TO NEW SIGNALS CLOSET 1C142.

Revisions	Date

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Drawing Title: FIRST FLOOR BUILDING 137A - POWER

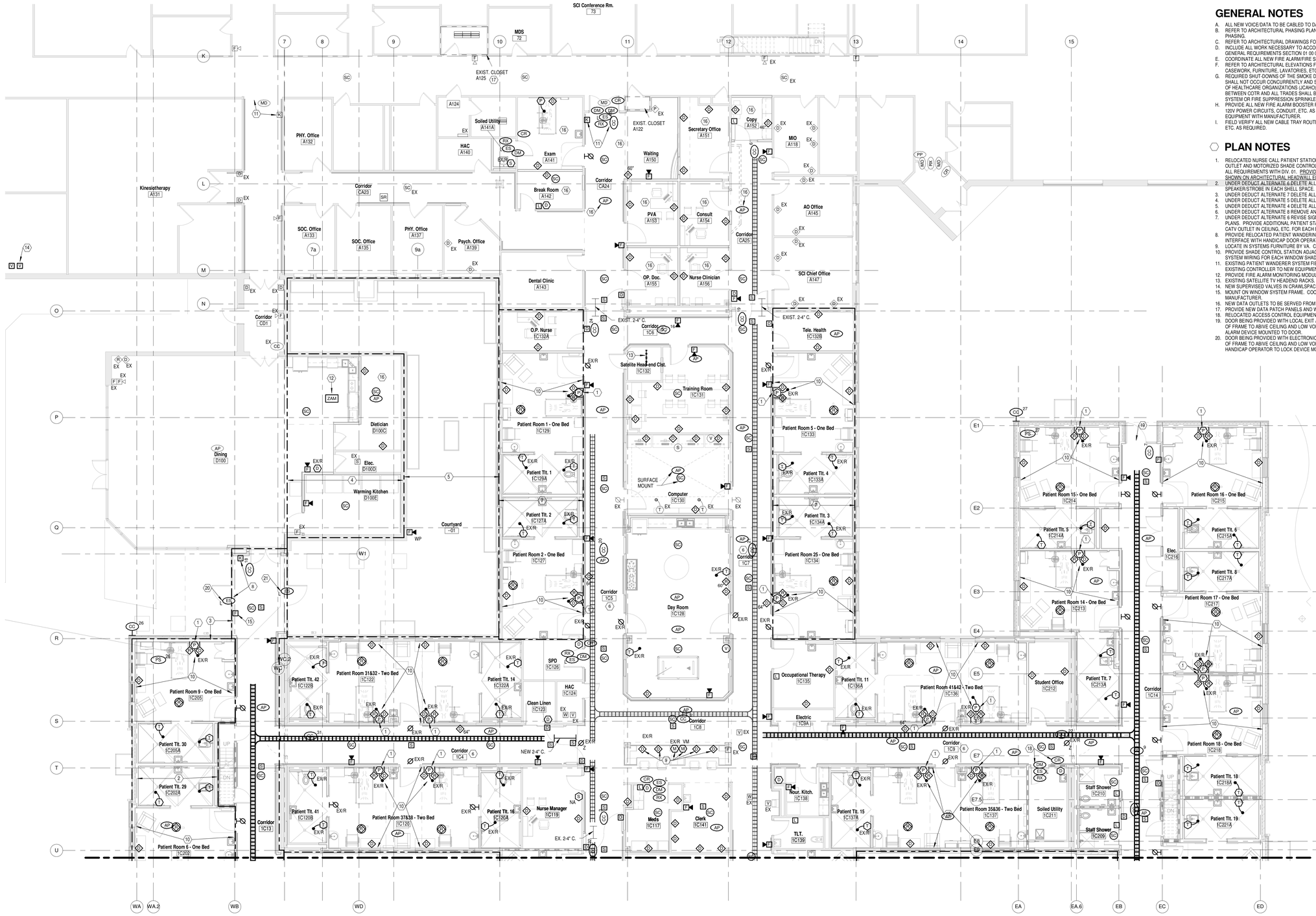
Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-EP105
Dwg. 133 of 135

Department of Veterans Affairs



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FIRST FLOOR AREA "A" - SIGNALS

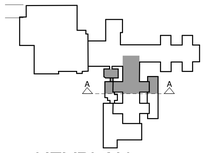
Scale: 1/8" = 1'-0"

GENERAL NOTES

A. ALL NEW VOICE/DATA TO BE CABLED TO DATA ROOM 1C142 UNLESS OTHERWISE NOTED.
B. REFER TO ARCHITECTURAL PHASING PLAN AND INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING.
C. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
D. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
E. COORDINATE ALL NEW FIRE ALARM/FIRE SUPPRESSION ZONES WITH COTR.
F. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.
G. REQUIRED SHUT-DOWNS OF THE SMOKE DETECTION SYSTEM AND FIRE SUPPRESSION SPRINKLER SYSTEM SHALL NOT OCCUR CONCURRENTLY AND SHALL COMPLY WITH THE JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS (JCAHO) INTERIM LIFE SAFETY MEASURES (ILSM). COORDINATION BETWEEN COTR AND ALL TRADES SHALL BE REQUIRED BEFORE SHUT-DOWN OF THE SMOKE DETECTION SYSTEM OR FIRE SUPPRESSION SPRINKLER SYSTEM.
H. PROVIDE ALL NEW FIRE ALARM BOOSTER PANELS, TRANSPONDER PANELS, FIBER/COPPER BACKBONE, 120V POWER CIRCUITS, CONDUIT, ETC. AS REQUIRED TO SERVE NEW DEVICES. COORDINATE ALL NEW EQUIPMENT WITH MANUFACTURER.
I. FIELD VERIFY ALL NEW CABLE TRAY ROUTES, SIZES, HEIGHTS, ETC. AND PROVIDE ALL OFFSETS, FITTINGS, ETC. AS REQUIRED.

PLAN NOTES

1. RELOCATED NURSE CALL PATIENT STATION (AND PILLOW SPEAKER), VOICE/DATA OUTLETS, CATV OUTLET AND MOTORIZED SHADE CONTROL OUTLETS TO BE MOUNTED IN HEADWALL UNIT. COORDINATE ALL REQUIREMENTS WITH DIV. 01. PROVIDE ALL CABLING, JACKS, FACEPLATES, TERMINATIONS, ETC. SHOWN ON ARCHITECTURAL HEADWALL ELEVATIONS.
2. UNDER DEDUCT ALTERNATE 6 DELETE ALL WORK SHOWN IN THIS AREA. PROVIDE ONE FIRE ALARM SPEAKER/STROBE IN EACH SHELL SPACE.
3. UNDER DEDUCT ALTERNATE 7 DELETE ALL REMAINING WORK WITHIN WEST ADDITION.
4. UNDER DEDUCT ALTERNATE 5 DELETE ALL WORK ASSOCIATED WITH RESIDENT/WARMING KITCHEN.
5. UNDER DEDUCT ALTERNATE 4 DELETE ALL WORK ASSOCIATED WITH COURTYARD IMPROVEMENTS.
6. UNDER DEDUCT ALTERNATE 8 REMOVE AND REINSTALL CEILING TILES REQUIRED FOR NEW WORK.
7. UNDER DEDUCT ALTERNATE 6 REVISE SIGNALS LAYOUT AS REQUIRED TO MATCH ARCHITECTURAL PLANS. PROVIDE ADDITIONAL PATIENT STATION/VOICE/DATA OUTLETS/CATV OUTLETS IN HEADWALL, CATV OUTLET IN CEILING, ETC. FOR EACH BED ADDED.
8. PROVIDE RELOCATED PATIENT WANDERING SYSTEM AT THIS DOOR. REFER TO DETAILS SHEET 137-E502. INTERFACE WITH HANDICAP DOOR OPERATOR TO DISABLE OPERATOR UPON ACTIVATION OF SYSTEM.
9. LOCATE IN SYSTEMS FURNITURE BY VA. COORDINATE ALL REQUIREMENTS WITH COTR.
10. PROVIDE SHADE CONTROL STATION ADJACENT TO DOOR AND IN PATIENT BEDSIDE HEADWALL AND SYSTEM WIRING FOR EACH WINDOW SHADE CONTROL SYSTEM. REFER TO DETAIL 4, SHEET 137-E502.
11. EXISTING PATIENT WANDERER SYSTEM FIELD DEVICES TO BE MAINTAINED. PROVIDE RELOCATION OF EXISTING CONTROLLER TO NEW EQUIPMENT ROOM 1C145 AND NEW FIELD WIRING.
12. PROVIDE FIRE ALARM MONITORING MODULE FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
13. EXISTING SATELLITE TV HEADEND RACKS.
14. NEW SUPERVISED VALVES IN CRAWLSPACE. REFER TO DIV. 24 DRAWINGS FOR EXACT LOCATION.
15. MOUNT ON WINDOW SYSTEM FRAME. COORDINATE EXACT LOCATION /ATTACHMENT WITH MANUFACTURER.
16. NEW DATA OUTLETS TO BE SERVED FROM EXISTING SIGNALS CLOSET A125.
17. PROVIDE NEW DATA PATCH PANELS AND WIRE MANAGERS IN EXISTING RACKS FOR NEW DATA CABLES.
18. RELOCATED ACCESS CONTROL EQUIPMENT.
19. DOOR BEING PROVIDED WITH LOCAL EXIT ALARM BY OTHERS. PROVIDE 0.75" CONDUIT FROM HINGE SIDE OF FRAME TO ABIVE CEILING AND LOW VOLTAGE POWER WIRING FROM LOCAL POWER SUPPLY TO ALARM DEVICE MOUNTED TO DOOR.
20. DOOR BEING PROVIDED WITH ELECTRONIC LOCK BY OTHERS. PROVIDE 0.75" CONDUIT FROM HINGE SIDE OF FRAME TO ABIVE CEILING AND LOW VOLTAGE POWER WIRING FROM LOCAL POWER SUPPLY AND HANDICAP OPERATOR TO LOCK DEVICE MOUNTED TO DOOR.



KEYPLAN

Scale: N.T.S.

Revisions	Date

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Drawing Title: FIRST FLOOR AREA "A" - SIGNALS

Approved: Project Director

Project Title: Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911

Building Number: 137
Checked: LLC
Drawn: MSG
Location: Hampton, VA.

Date: 04/26/2013
Project No.: 590-911
RDC/JPA Project No. 11004.00
Drawing Number: 137-ET101
Dwg. 134 of 135

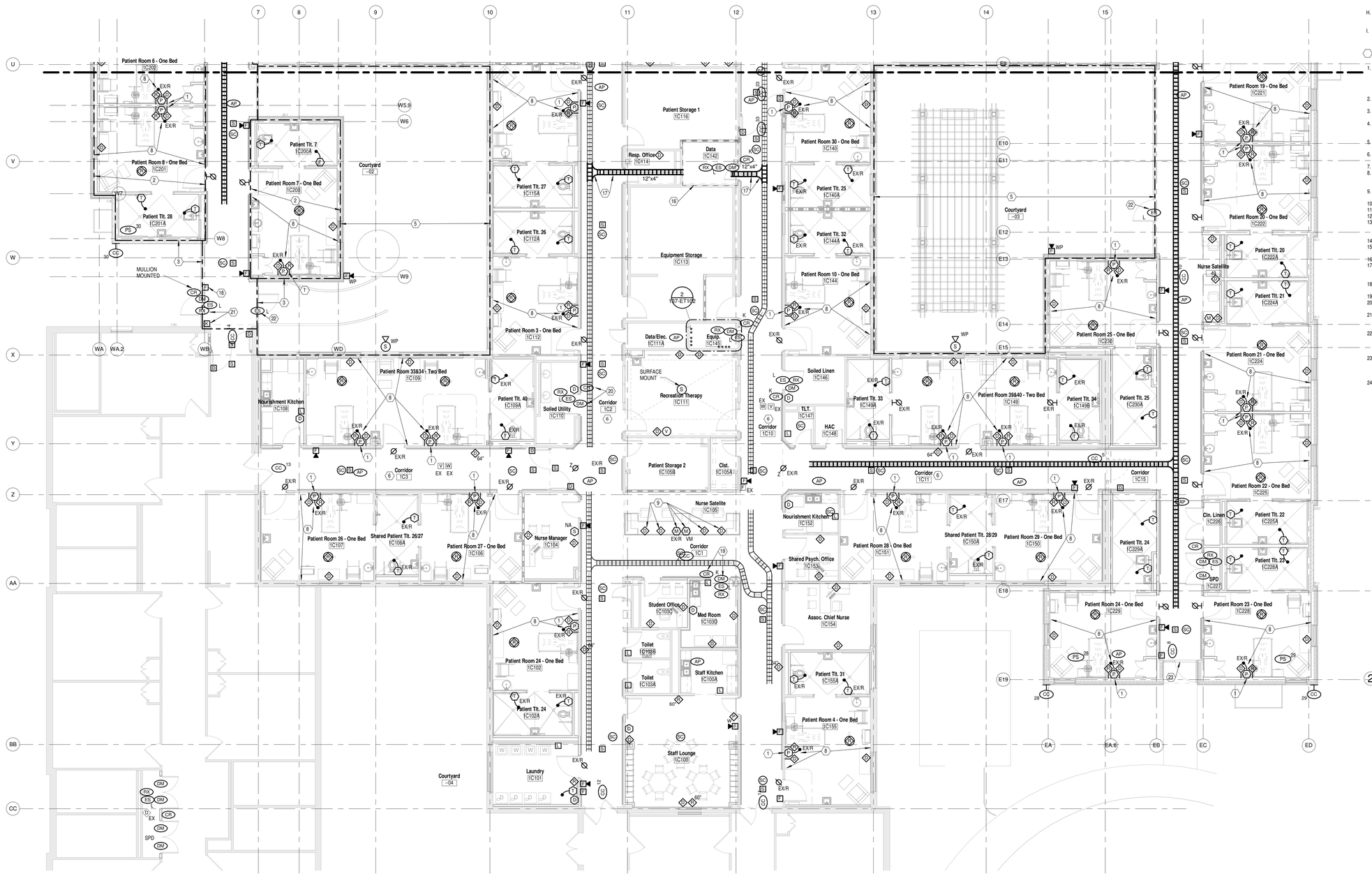
Department of Veterans Affairs

GENERAL NOTES

A. ALL NEW VOICE/DATA TO BE CABLED TO DATA ROOM 45.
B. REFER TO ARCHITECTURAL PHASING PLAN AND INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING.
C. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
D. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
E. COORDINATE ALL NEW FIRE ALARM/FIRE SUPPRESSION ZONES WITH COTR.
F. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.
G. REQUIRED SHUT-DOWNS OF THE SMOKE DETECTION SYSTEM AND FIRE SUPPRESSION SPRINKLER SYSTEM SHALL NOT OCCUR CONCURRENTLY AND SHALL COMPLY WITH THE JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS (JCAHO) INTERIM LIFE SAFETY MEASURES (ILSM). COORDINATION BETWEEN COTR AND ALL TRADES SHALL BE REQUIRED BEFORE SHUT-DOWN OF THE SMOKE DETECTION SYSTEM OR FIRE SUPPRESSION SPRINKLER SYSTEM.
H. PROVIDE ALL NEW FIRE ALARM BOOSTER PANELS, TRANSPONDER PANELS, FIBER/COPPER BACKBONE, 120V POWER CIRCUITS, CONDUIT, ETC. AS REQUIRED TO SERVE NEW DEVICES. COORDINATE ALL NEW EQUIPMENT WITH MANUFACTURER.
I. FIELD VERIFY ALL NEW CABLE TRAY ROUTES, SIZES, HEIGHTS, ETC. AND PROVIDE ALL OFFSETS, FITTINGS, ETC. AS REQUIRED.

PLAN NOTES

1. RELOCATED NURSE CALL PATIENT STATION (AND PILLOW SPEAKER), VOICE/DATA OUTLETS, CATV OUTLET AND MOTORIZED SHADE CONTROL OUTLETS TO BE MOUNTED IN HEADWALL UNIT. COORDINATE ALL REQUIREMENTS WITH DIV. 01. PROVIDE ALL CABLING, JACKS, FACEPLATES, TERMINATIONS, ETC. SHOWN ON ARCHITECTURAL HEADWALL ELEVATIONS.
2. UNDER DEDUCT ALTERNATE 6 DELETE ALL WORK SHOWN IN THIS AREA. PROVIDE ONE FIRE ALARM SPEAKER/STROBE IN EACH SHELL SPACE.
3. UNDER DEDUCT ALTERNATE 7 DELETE ALL REMAINING WORK WITHIN WEST ADDITION.
4. EXISTING G.E. TELLIGENCE NURSE CALL HEADEND CABINET. PROVIDE ALL REQUIRED HARDWARE, SOFTWARE, PROGRAMMING, TESTING, ETC. TO ACCOMMODATE NEW DEVICES.
5. UNDER DEDUCT ALTERNATE 4 DELETE ALL WORK ASSOCIATED WITH COURTYARD IMPROVEMENTS.
6. UNDER DEDUCT ALTERNATE 8 REMOVE AND REINSTALL CEILING TILES AS REQUIRED FOR NEW WORK.
7. EXISTING CATV SPLITTER/AMPLIFIER CABINET.
8. PROVIDE SHADE CONTROL STATION ADJACENT TO DOOR AND IN PATIENT BEDSIDE HEADWALL AND SYSTEM WIRING FOR EACH WINDOW SHADE CONTROL SYSTEM. REFER TO DETAIL 4, SHEET 137-E502.
9. LOCATE IN SYSTEMS FURNITURE BY VA. COORDINATE ALL REQUIREMENTS WITH COTR.
10. EXISTING RADIO SPLITTER CABINET.
11. EXISTING STEAM/CHILLED WATER PIPING.
12. EXISTING CONDUIT SLEEVES ABOVE CEILING. PROVIDE NEW AS REQUIRED.
13. EXISTING VOICE WALL FIELD TO BE REMOVED UPON COMPLETION OF PROJECT. REMOVE ALL VOICE CABLING, 66 BLOCKS, CABLE MANAGEMENT, ETC. ONCE NEW VOICE BACKBONE/CABLING IS COMPLETE.
14. EXISTING DDC PANELS.
15. PROVIDE NEW CCTV NVR & WALL MOUNT SHELF. UTILIZE (2) DATA JACKS IN NEW DATA OUTLET FOR SYSTEM CONNECTIVITY.
16. REFER TO SHEET 137-E201 FOR DETAILS OF THIS ROOM.
17. REMOVE SECTION OF LADDER TYPE CABLE TRAY AND PROVIDE NEW "T" FITTING TO 12" W. X 4" DP. TRAY. DROP NEW SECTION AROUND DUCT/PIPING AND EXTEND JUST ABOVE LAY-IN CEILING INTO NEW DATA 1C142.
18. MOUNT ON WINDOW SYSTEM FRAME. COORDINATE EXACT LOCATION/ATTACHMENT WITH MANUFACTURER.
19. RELOCATED ACCESS CONTROL EQUIPMENT.
20. RE-WORK EXISTING ACCESS CONTROL EQUIPMENT AT THIS LOCATION TO ACCOMODATE NEW DOOR.
21. PROVIDE RELOCATED PATIENT WANDERING SYSTEM AT THIS DOOR. REFER TO DETAILS SHEET 137-E502. RELOCATE CONTROLLER TO ROOM 1C145 AND PROVIDE ALL NEW WIRING.
22. DOOR BEING PROVIDED WITH ELECTRONIC LOCK BY OTHERS. PROVIDE 0.75" CONDUIT FROM HINGE SIDE OF FRAME TO ABIVE CEILING AND LOW VOLTAGE POWER WIRING FROM LOCAL POWER SUPPLY AND HANDICAP OPERATOR TO LOCK DEVICE MOUNTED TO DOOR.
23. DOOR BEING PROVIDED WITH LOCAL EXIT ALARM BY OTHERS. PROVIDE 0.75" CONDUIT FROM HINGE SIDE OF FRAME TO ABIVE CEILING AND LOW VOLTAGE POWER WIRING FROM LOCAL POWER SUPPLY TO ALARM DEVICE MOUNTED TO DOOR.
24. PROVIDE CONTROLLERS FOR EACH OF THE SIX (6) PATIENT WANDERER SYSTEM DOORS IN THIS LOCATION. EXTEND WIRING FROM EACH CONTROLLER TO EACH ASSOCIATED DOOR AND FROM EACH CONTROLLER TO EACH OF THREE (3) GRAPHIC DISPLAY PANELS. RELOCATE EXISTING HUB AND RE-CONNECT EXISTING CONTROLLERS.



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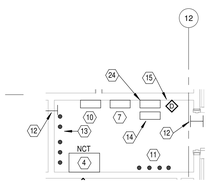
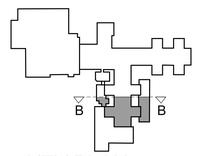
FIRST FLOOR AREA "B" - SIGNALS

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



2 ENLARGED EQUIPMENT ROOM

1/4" = 1'-0"



KEY PLAN

Scale: N.T.S.

Revisions	Date

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Dwg. 135 of 135

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