

A

B

C

D

E

F

A

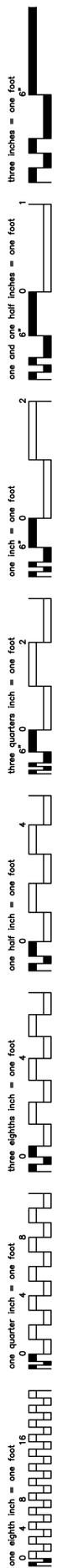
B

C

D

E

F



ELECTRICAL LINETYPES	
---	ELECTRICAL TO BE DEMOLISHED
---	EXISTING UNDERGROUND ELECTRICAL
---	CABLE TV LINE
---	TELEPHONE LINE
---	UNDERGROUND TELEPHONE LINE
---	OVERHEAD ELECTRICAL SERVICE, PRIMARY OR SECONDARY
---	UNDERGROUND ELECTRICAL SERVICE, PRIMARY OR SECONDARY
---	LOW VOLTAGE
---	ELECTRICAL LINE
---	COMMUNICATIONS LINE
---	CABLE TRAY
---	CONDUIT CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS
---	CONDUIT CONCEALED IN OR UNDER SLAB
---	NON-RIGID RACEWAY SYSTEM
---	CONDUIT TURNING UP
---	CONDUIT TURNING DOWN

WIRE AND CONDUIT CHART	
(ALL WIRING AND CABLE SHALL BE INSTALLED PER CHART UNLESS SPECIFIED OTHERWISE)	
IF THERE IS A AMPACITY AND POLE NOT LISTED THE CONTRACTOR IS RESPONSIBLE TO CONTACT ENGINEER DURING BIDDING FOR INFORMATION	
CIRCUIT	WIRE AND CONDUIT
1P 20A	2-#12 THHN CU, 1-#12 THHN CU GND 3/4" CONDUIT
1P 30A	2-#10 THHN CU, 1-#10 THHN CU GND 3/4" CONDUIT
2P 20A	3-#12 THHN CU, 1-#12 THHN CU GND 3/4" CONDUIT
2P 30A	3-#10 THHN CU, 1-#10 THHN CU GND 3/4" CONDUIT
2P 40A	3-#8 THHN CU, 1-#10 THHN CU GND 3/4" CONDUIT
2P 50A	3-#8 THHN CU, 1-#10 THHN CU GND 3/4" CONDUIT
3P 20A	4-#12 THHN CU, 1-#12 THHN CU GND 3/4" CONDUIT
3P 30A	4-#10 THHN CU, 1-#10 THHN CU GND 3/4" CONDUIT
3P 40A	4-#8 THHN CU, 1-#10 THHN CU GND 1" CONDUIT
3P 50A	4-#8 THHN CU, 1-#10 THHN CU GND 1" CONDUIT
3P 60A	4-#6 THHN CU, 1-#10 THHN CU GND 1" CONDUIT
3P 80A	4-#3 THHN CU, 1-#8 THHN CU GND 1-1/4" CONDUIT
3P 100A	4-#3 THHN CU, 1-#8 THHN CU GND 1-1/2" CONDUIT
3P 200A	4-3/0 THHN CU, 1-#6 THHN CU GND 2-1/2" CONDUIT
3P 225A	4-4/0 THHN CU, 1-#6 THHN CU GND 2-1/2" CONDUIT

ELECTRICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	MFR./MODEL NO.	REMARKS
○	SURFACE CEILING FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	RECESSED CEILING LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	PENDANT LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
□	WALL MOUNTED LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
□	IN GROUND LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	FAN LIGHT COMBINATION	REFER TO LIGHT FIXTURE SCHEDULE	-
□	1X4 SURFACE CEILING MOUNT LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
□	2X2 SURFACE CEILING MOUNT LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
□	2X4 SURFACE CEILING MOUNT LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
□	1X4 RECESSED CEILING MOUNT LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
□	2X2 RECESSED CEILING MOUNT LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
□	2X4 RECESSED CEILING MOUNT LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
□	2X4 RECESSED CEILING MOUNT LIGHT FIXTURE W/ DIFFUSER	REFER TO LIGHT FIXTURE SCHEDULE	-
□	SURFACE WALL MOUNT LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
□	PENDANT/CHAIN MOUNT LIGHT FIXTURE	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	EXIT SIGN CEILING MOUNT	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	EXIT SIGN WALL MOUNT	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	EXIT SIGN WALL MOUNT WITH EMERGENCY HEADS	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	EMERGENCY BATTERY LIGHT	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	REMOTE EMERGENCY HEADS	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	CEILING MOUNT FIXTURE PROVIDING EMERGENCY ILLUMINATION	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	FLUORESCENT FIXTURE PROVIDING EMERGENCY ILLUMINATION	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	RECESSED GROUND MOUNTED EXTERIOR LIGHT	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	ILLUMINATED BOLLARD	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	PARKING LOT LUMINAIRE	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	OPEN AREA SPOT LIGHTS	REFER TO LIGHT FIXTURE SCHEDULE	-
⊙	SINGLE POLE SWITCH	-	-
⊙	THREE WAY SWITCH	-	-
⊙	FOUR WAY SWITCH	-	-
⊙	TIMER SWITCH	-	-
⊙	OCCUPANCY SENSOR	-	WALL SWITCH DECORATOR SENSOR
⊙	DIMMING SWITCH	-	-
⊙	DUAL LEVEL SWITCH	-	-
⊙	CEILING MOUNT OCCUPANCY SENSOR	-	-
⊙	WALL MOUNT OCCUPANCY SENSOR	-	-
⊙	PHOTOCELL	-	CONTROL FOR ALL EXTERIOR FIXTURES
⊙	DUPEX RECEPTACLE	-	20A RATING
⊙	GFI PROTECTED RECEPTACLE	-	20A RATING
⊙	COUNTERTOP RECEPTACLE	-	20A RATING
⊙	GFI PROTECT., PROVIDE TAYMAC 20510 COVER	-	-
⊙	QUADRUPEX RECEPTACLE	-	-
⊙	DUPEX FLOOR BOX RECEPTACLE	-	PROVIDE APPROPRIATE FLANGE FOR MOUNTING FLUSH TO FLOOR
⊙	EXISTING RECEPTACLE, CEILING MOUNTED, TO REMAIN	-	-
⊙	QUADRUPEX FLOOR BOX RECEPTACLE	-	PROVIDE APPROPRIATE FLANGE FOR MOUNTING FLUSH TO FLOOR
⊙	Z08/220V RECEPTACLE	-	COORDINATE AMP RATING WITH EQUIPMENT
⊙	SPECIAL PURPOSE RECEPTACLE	-	COORDINATE WITH OWNER
⊙	FUSED DISCONNECT	-	-
⊙	ELECTRICAL WALL MOUNTED RACEWAY	-	-
⊙	JUNCTION BOX	-	-
⊙	DATA/TELEPHONE NETWORK JACK	-	-
⊙	TELEPHONE JACK	-	-
⊙	WALL MOUNTED TELEPHONE	-	-
⊙	DATA NETWORK JACK	-	-
⊙	DATA/TELEPHONE NETWORK FLOOR JACK	-	PROVIDE APPROPRIATE FLANGE FOR MOUNTING FLUSH TO FLOOR
⊙	CABLE TELEVISION OUTLET	-	PROVIDE BOX AND CONDUIT
⊙	HEAT DETECTOR	-	-
⊙	SMOKE DETECTOR	-	ADDRESSABLE PHOTOELECTRIC
⊙	DUCT SMOKE DETECTOR	-	ADDRESSABLE PHOTOELECTRIC
⊙	BEAM SMOKE DETECTOR	-	S-SENDING UNIT / R-RECEIVING UNIT
⊙	AUDIO/VISUAL FIRE ALARM DEVICE	-	E-SERIES
⊙	VISUAL FIRE ALARM DEVICE	-	E-SERIES
⊙	BELL	-	-
⊙	MANUAL FIRE ALARM PULL STATION	-	DUAL ACTION
⊙	FLOW SWITCH	-	-
⊙	TAMPER SWITCH	-	-
⊙	FIRE ALARM CONTROL PANEL	-	-
⊙	FIRE ALARM ANNUCIATOR	-	-
⊙	SECURITY CAMERA	-	WP-WEATHERPROOF
⊙	SECURITY ACCESS CARD READER	-	PROVIDE WIREWAY AND PULLSTRING
⊙	KEYPAD	-	PROVIDE WIREWAY AND PULLSTRING
⊙	DOOR CONTACT	-	-
⊙	WINDOW CONTACT	-	-
⊙	MOTION SENSOR	-	-
⊙	ELECTRONIC DOOR STRIKE	-	-
⊙	DOORBELL	-	-
⊙	CEILING MOUNTED SPEAKER	-	-
⊙	SPEAKER HORN	-	-
⊙	WALL MOUNTED SPEAKER	-	-
⊙	FLUSH MOUNTED INTERCOM	-	-
⊙	MASTER INTERCOM	-	-
⊙	VOLUME CONTROL	-	-
⊙	TIME CLOCK	-	-
⊙	PHOTO CELL	-	-
⊙	EXISTING RECEPTACLE TO REMAIN	-	-
⊙	DOOR HOLDER	-	CONNECT TO EXISTING FA SYSTEM

ELECTRICAL GENERAL NOTES

- PRIOR TO CONSTRUCTION & INSTALLATION, CONTRACTOR TO VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF CONFLICTS OR CONDITIONS WHICH INTERFERE WITH INSTALLATION AS SET FORTH IN CONTRACT DOCUMENTS.
- CONTRACTOR RESPONSIBLE FOR ALL FLOOR OPENINGS, EXCAVATIONS, AND PENETRATIONS, UNLESS SPECIFICALLY NOTED. UPON COMPLETION, ALL PENETRATIONS TO BE SEALED TO MAINTAIN FIRE RATING AS SPECIFIED ON ARCHITECTURAL DRAWINGS.
- ALL CUTTING AND PATCHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS CLEARLY INDICATED AS PART OF ANOTHER PRIME CONTRACT.
- ALL WORK SHOWN ON THIS DRAWING IS THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS CLEARLY INDICATED AS PART OF ANOTHER PRIME CONTRACT.
- COORDINATE ALL NEW ROOF PENETRATIONS WITH THE OTHER CONTRACTS.
- ALL WORK TO BE COMPLETED IN COMPLIANCE WITH CURRENT VERSION OF NEC AND ALL LOCAL CODES.
- MINIMUM WIRE SIZE TO BE #12 AWG (FOR POWER).
- MINIMUM CONDUIT SIZE TO BE 3/4" EMT. INSTALL & SUPPORT IN ACCORDANCE WITH CURRENT VERSION OF NEC.
- RECEPTACLES TO BE INSTALLED WITH GROUNDING POLE TO THE TOP OR, IF MOUNTED HORIZONTALLY, TO THE LEFT.
- PROVIDE SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR WITHIN EACH BRANCH CIRCUIT RACEWAY.
- CONTRACTOR RESPONSIBLE FOR OBTAINING ALL PERMITS & INSPECTIONS.
- PROVIDE SUBMITTALS FOR SUBSTITUTIONS ON ANY EQUIPMENT.
- SUBMIT O&M MANUALS TO OWNER UPON COMPLETION OF WORK.
- PROVIDE TRAINING SESSION FOR DESIGNATED MAINTENANCE PERSONNEL.
- PROVIDE TEMPORARY POWER REQUIRED FOR ALL TRADES.
- MATCH OWNERS EXISTING STANDARD EQUIPMENT.
- INSTALL FIRESTOPPING TO MAINTAIN ALL EXISTING FIRE SEPARATIONS.
- GROUND ALL EQUIPMENT ACCORDING TO CURRENT VERSION OF NEC.
- ALL RECEPTACLES DENOTED WP (WEATHERPROOF) TO BE GFI PROTECTED.
- ALL DEVICES & FIXTURES TO BE SPECIFICATION GRADE OR BETTER.
- CONTRACTOR TO PROVIDE BONDING TO STEEL PER NEC250.50.

ELECTRICAL MOUNTING HEIGHTS (UNLESS OTHERWISE NOTED)	
LIGHTING CONTROL SWITCHES:	45" A.F.F. TO CENTER
RECEPTACLES & TELEPHONE/DATA OUTLETS:	18" A.F.F. TO CENTER
COUNTERTOP RECEPTACLES/TELEPHONE/DATA:	45" A.F.F. TO CENTER
WALL MOUNTED LIGHTING FIXTURES:	6" A.F.F. TO CENTER
DISCONNECT SWITCHES:	5' A.F.F. OR ON EQUIPMENT
PANEL BOARDS:	6' A.F.F. TO TOP BREAKER

ELECTRICAL SHEET INDEX	
0-ES1	ELECTRICAL TITLE SHEET AND LEGENDS
5-ES1	BUILDING #6 ROOM 100A & 5C
7-ES1	BUILDING #7 ROOM 132
9-ES1	BUILDING #9 ROOM 5C

REVISIONS	ISSUED FOR CONSTRUCTION	2/24/2012
-----------	-------------------------	-----------

CONSULTANTS:

AJH DESIGN

216 OAKWOOD AVENUE ELMIRA HEIGHTS, NEW YORK 14903
 PH: (607) 737-4638 FAX: (607) 737-1277

AJH 11-058



ARCHITECT/ENGINEERS:

LDG

Larson Design Group Architects Engineers Surveyors
 1000 Commerce Park Drive • Suite 201
 Williamsport, PA 17701
 PHONE 570.323.6603 TOLL FREE 877.323.6603
 FAX 570.323.9902 • www.larsondesigngroup.com

Drawing Title
ELECTRICAL TITLE SHEET + LEGENDS

Approved Project Director
CHRISTOPHER HALL

Project Title
KITCHEN RENOVATIONS

Project Number
6944-001

Location

Date
 2-24-2012

Checked
 RDH

Drawn
 BDC

Drawing Number
 0-ES 1

Dwg. 1 of 1

Office of Construction and Facilities Management

Department of Veterans Affairs