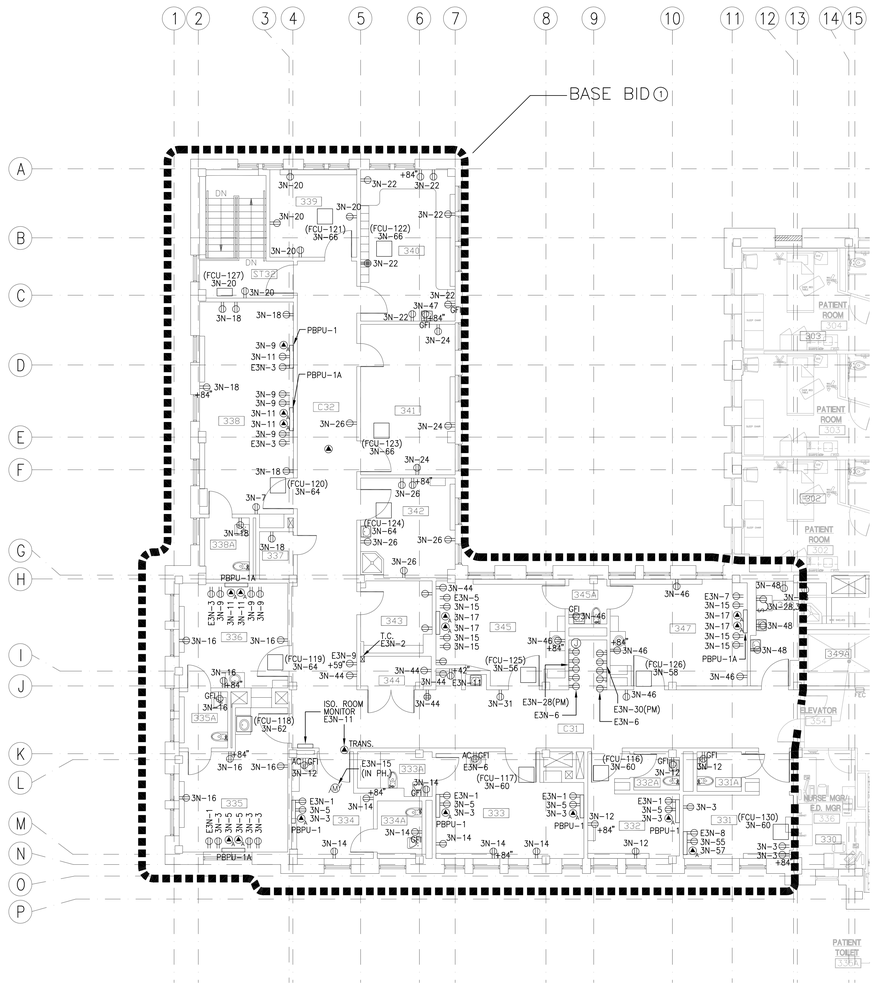

TRUE PLAN

1 THIRD FLOOR POWER PLAN–BASE BID

SCALE: 1/8" = 1'–0"

RE: E2.3 FOR ADDITIONAL BASE BID WORK.

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

D. PROVIDE POWER RELAYS, LOW VOLTAGE TRANSFORMERS, CONDUITS AND JUNCTION BOXES FOR THE FOLLOWING SPECIAL SYSTEMS AS REQUIRED: AUTOMATIC DOORS, OVERHEAD PAGING, NURSE CALL, PHYSIOLOGY MONITORING, FIRE ALARM, ACCESS CONTROL, CCTV, VOICE/DATA, CATV, MEDICAL GAS ALARMS, BUILDING AUTOMATION, SECURITY SYSTEM CONNECTIONS AND MECHANICAL CONTROLS.

E. SEE SPECIAL SYSTEM'S SCOPE OF WORK IN 'T' SERIES DRAWINGS. COORDINATE ELECTRICAL REQUIREMENTS FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE AND SPECIFICATIONS, MECHANICAL AND PLUMBING CONTROL DRAWINGS, SPECIAL SYSTEM DRAWINGS, ARCHITECT, SYSTEM'S PROVIDER'S AND OWNERS AGENT. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH–IN.

F. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

G. COORDINATE WITH OWNERS AGENT FOR FINAL LOCATIONS OF ALL RECEPTACLES AND SPECIAL CONNECTIONS FOR EQUIPMENT PRIOR TO ROUGH–IN. COORDINATE RECEPTACLE INSTALLATION WITH MILLWORK AND BACKSPLASH INSTALLERS TO AVOID INTERFERENCES.

SHEET NOTES:

1. BASE BID. ELECTRICAL IN THIS AREA IS TO REMAIN. RECONNECT ANY CIRCUITS EFFECTED BY ADJACENT DEMOLITION WORK.

REVISIONS	DATE

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CAD FILE NAME:
531–320_E2.3A.DWG

XREF FILE NAME:
531–320_30X42TLBK.DWG
531–320_67a3.dwg
531–320_3rd Panels.DWG

DRAWING TITLE
THIRD FLOOR POWER PLAN BASE BID

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
BUILDING 67 EXPANSION

BUILDING NUMBER 67 | CHECKED AKD | DRAWN DJP

LOCATION
VAMC BOISE, IDAHO

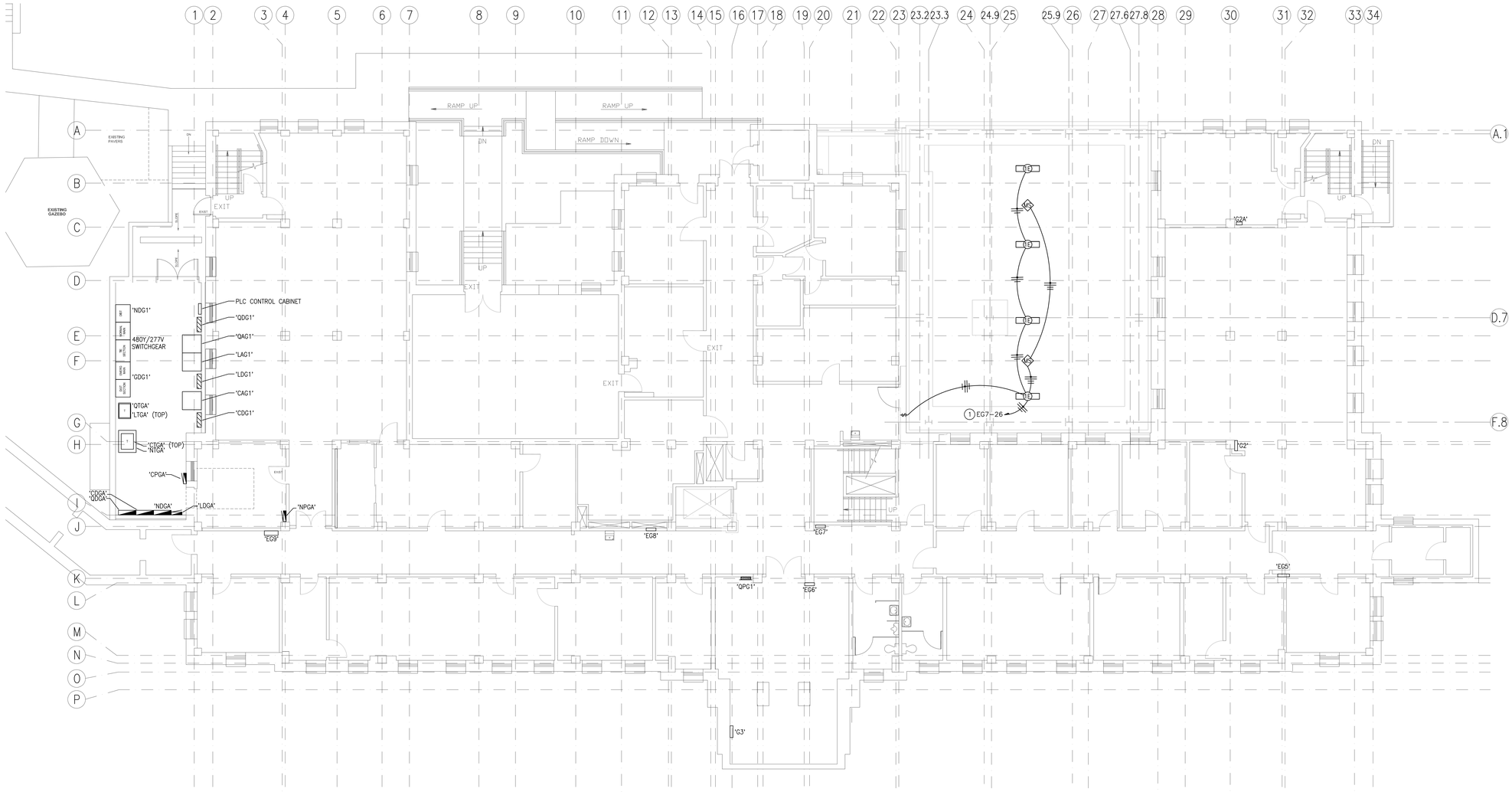
DATE 07/12/2013

PROJECT NO. 531–320

DRAWING NO. E2.3A

DWG 142 OF 191

DEPARTMENT OF VETERANS AFFAIRS



TRUE PLAN

1 GROUND FLOOR LIGHTING PLAN

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

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

D. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.

E. SHADED FIXTURE SHALL BE ON EMERGENCY/NIGHTLIGHT CIRCUIT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.

F. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.

G. FURNISH AND INSTALL 1000W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI-GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.

H. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.

I. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH ALL OTHER TRADES.

J. EACH SWITCH BOX SHALL HAVE A GROUND AND ASSOCIATED LIGHTING CIRCUIT NEUTRAL CONDUCTOR.

K. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

SHEET NOTES:

1. VERIFY AND CONNECT TO SPARE BREAKER IN EXISTING PANEL EG7.

REVISIONS	DATE

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9201
9-12-13
STATE OF IDAHO

CAD FILE NAME:
531-320_E2.4.DWG

XREF FILE NAME:
531-320_30X42TLBK.DWG
531-320_67a0.DWG

DRAWING TITLE
GROUND FLOOR LIGHTING PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
BUILDING 67 EXPANSION

BUILDING NUMBER	CHECKED	DRAWN
67	AKD	DJP

LOCATION
VAMC BOISE, IDAHO

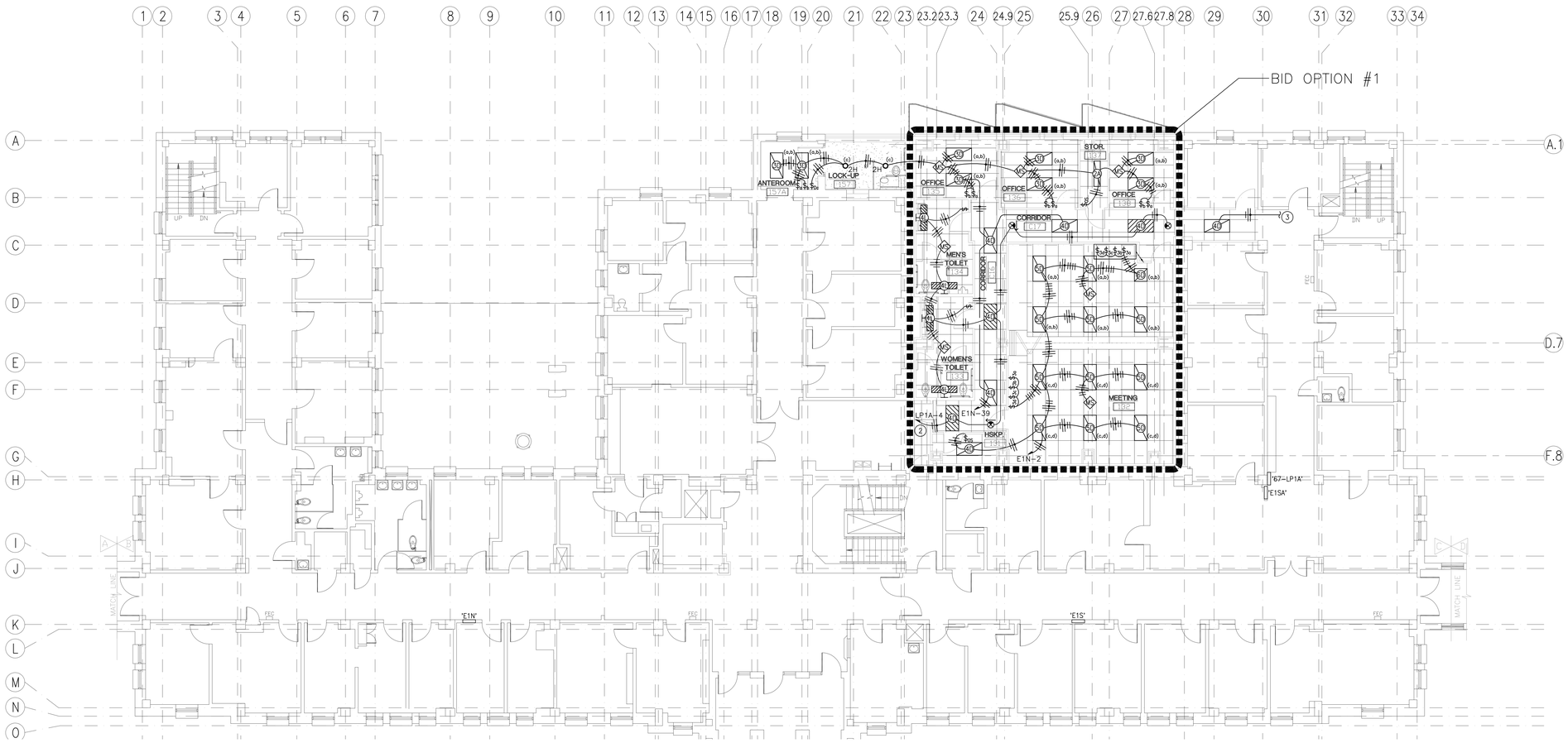
DATE
07/12/2013

PROJECT NO.
531-320

DRAWING NO.
E2.4

DWG 143 OF 191

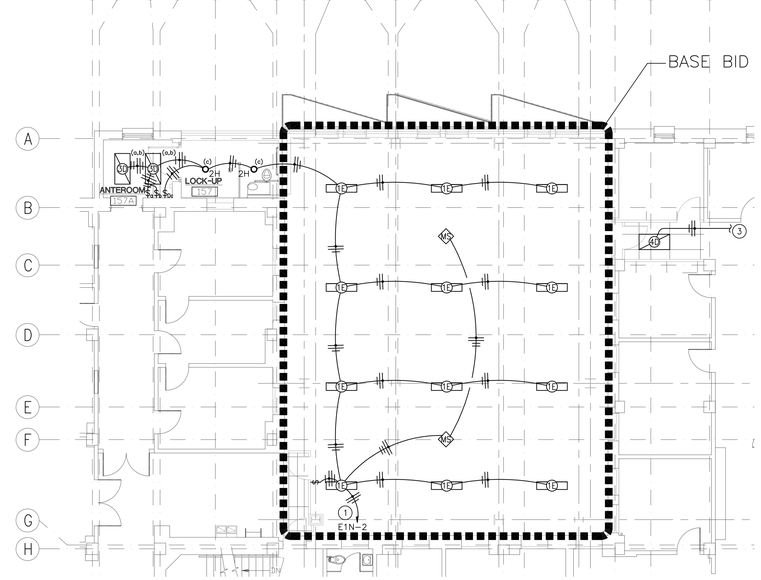
DEPARTMENT OF VETERANS AFFAIRS



TRUE PLAN

1 FIRST FLOOR LIGHTING PLAN

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



TRUE PLAN

2 FIRST FLOOR LIGHTING PLAN–BASE BID

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

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

D. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.

E. SHADED FIXTURE SHALL BE ON EMERGENCY/NIGHTLIGHT CIRCUIT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.

F. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.

G. FURNISH AND INSTALL 1000W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI–GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.

H. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.

I. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH ALL OTHER TRADES.

J. EACH SWITCH BOX SHALL HAVE A GROUND AND ASSOCIATED LIGHTING CIRCUIT NEUTRAL CONDUCTOR.

K. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

SHEET NOTES:

1. VERIFY AND CONNECT TO SPARE BREAKER IN EXISTING PANEL E1N–2.
2. VERIFY AND CONNECT TO SPARE BREAKER IN EXISTING PANEL LP1A.
3. CONNECT TO EXISTING CORRIDOR LIGHTING CIRCUIT SWITCH LEG.

REVISIONS	DATE

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9201
7-12-13
STATE OF IDAHO
AMY K. DOCKTER

CAD FILE NAME:
531–320_E2.5.DWG

XREF FILE NAME:
531–320_30X42TLBK.DWG
531–320_67a1.DWG
531–320_1st Panels.DWG
531–320_1st Lighting.DWG

DRAWING TITLE
FIRST FLOOR LIGHTING PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
BUILDING 67 EXPANSION

BUILDING NUMBER	CHECKED	DRAWN
67	AKD	DJP

LOCATION
VAMC BOISE, IDAHO

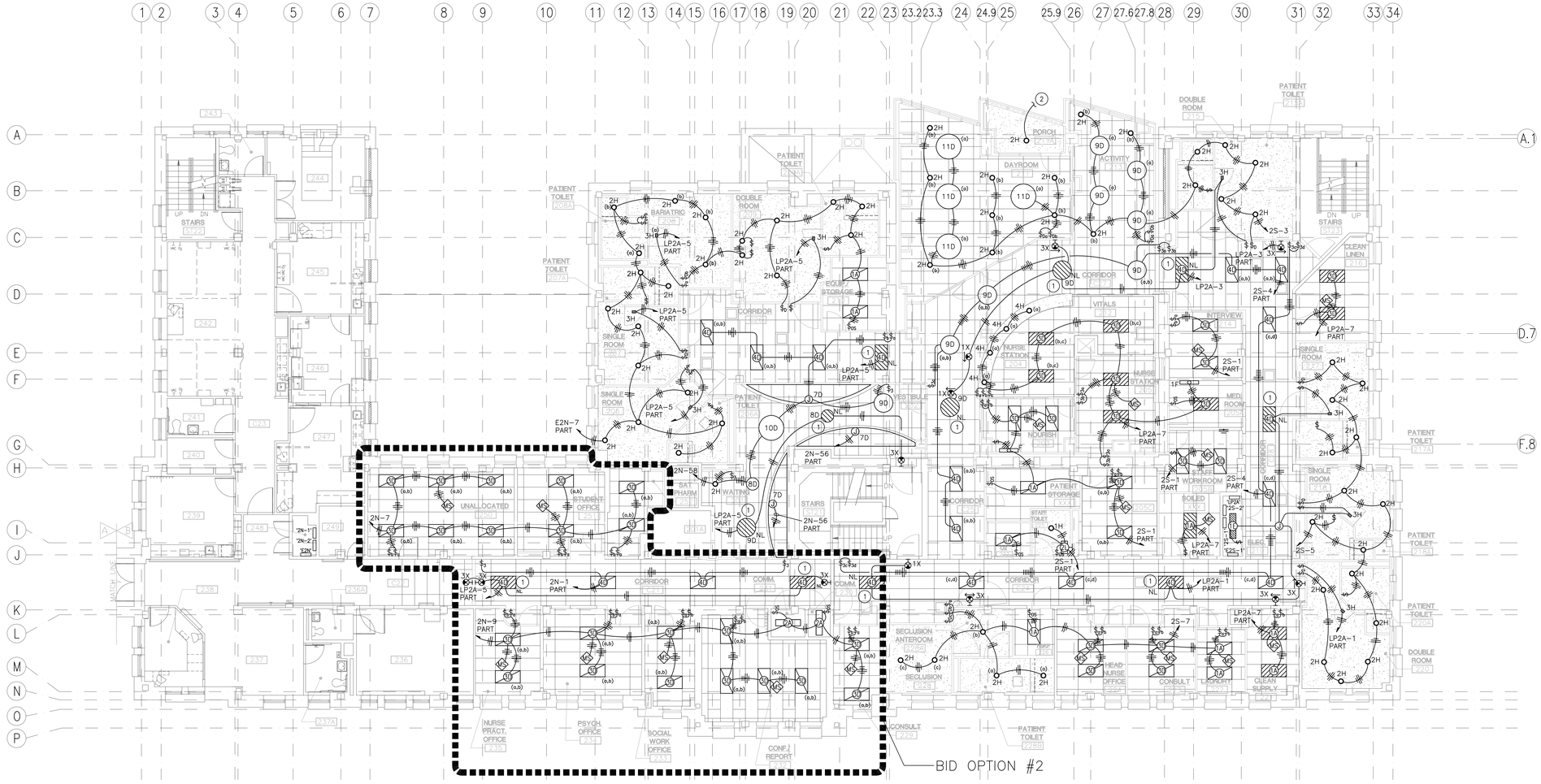
DATE 07/12/2013

PROJECT NO. 531–320

DRAWING NO. E2.5

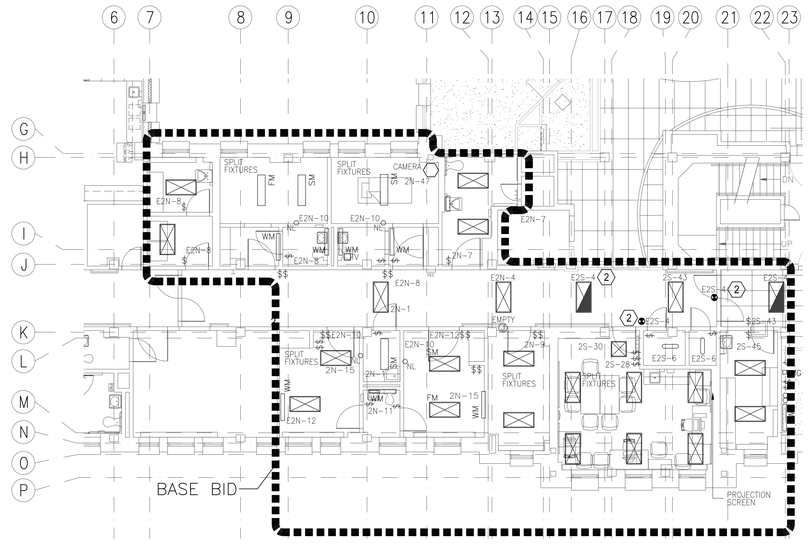
DWG 144 OF 191

DEPARTMENT OF VETERANS AFFAIRS



1 SECOND FLOOR LIGHTING PLAN

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



2 SECOND FLOOR PARTIAL LIGHTING PLAN–BASE BID

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

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

D. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.

E. SHADED FIXTURE SHALL BE ON EMERGENCY/NIGHTLIGHT CIRCUIT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.

F. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.

G. FURNISH AND INSTALL 1000W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI–GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.

H. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.

I. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH ALL OTHER TRADES.

J. EACH SWITCH BOX SHALL HAVE A GROUND AND ASSOCIATED LIGHTING CIRCUIT NEUTRAL CONDUCTOR.

K. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

L. ALL EXIT SIGNS TYPE '3X' SHOWN TO BE MOUNTED OVER DOOR SHALL BE CENTERED RECESSED AT 7'–7" AFF.

SHEET NOTES:

1. NIGHT LIGHT. CONNECT FOR CONTINUOUS OPERATION.
2. NEW EXTERIOR FIXTURE. FURNISH AND INSTALL NEW CONDUIT AND CONDUCTORS TO EXISTING EXTERIOR LIGHT FIXTURES CIRCUIT AND CONTROLS. INTERCEPT AND MAKE CONNECTIONS FOR POWER AND CONTROL OF NEW FIXTURE.

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CAD FILE NAME: 531–320_E2.6.DWG

XREF FILE NAME:
531–320_30X42TLBK.DWG
531–320_67a2.dwg
531–320_2nd Panels.dwg
531–320_2nd Lighting.dwg

DRAWING TITLE: SECOND FLOOR LIGHTING PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: BOISE VAMC BUILDING 67 EXPANSION

BUILDING NUMBER	CHECKED	DRAWN
67	AKD	DJP

LOCATION: VAMC BOISE, IDAHO

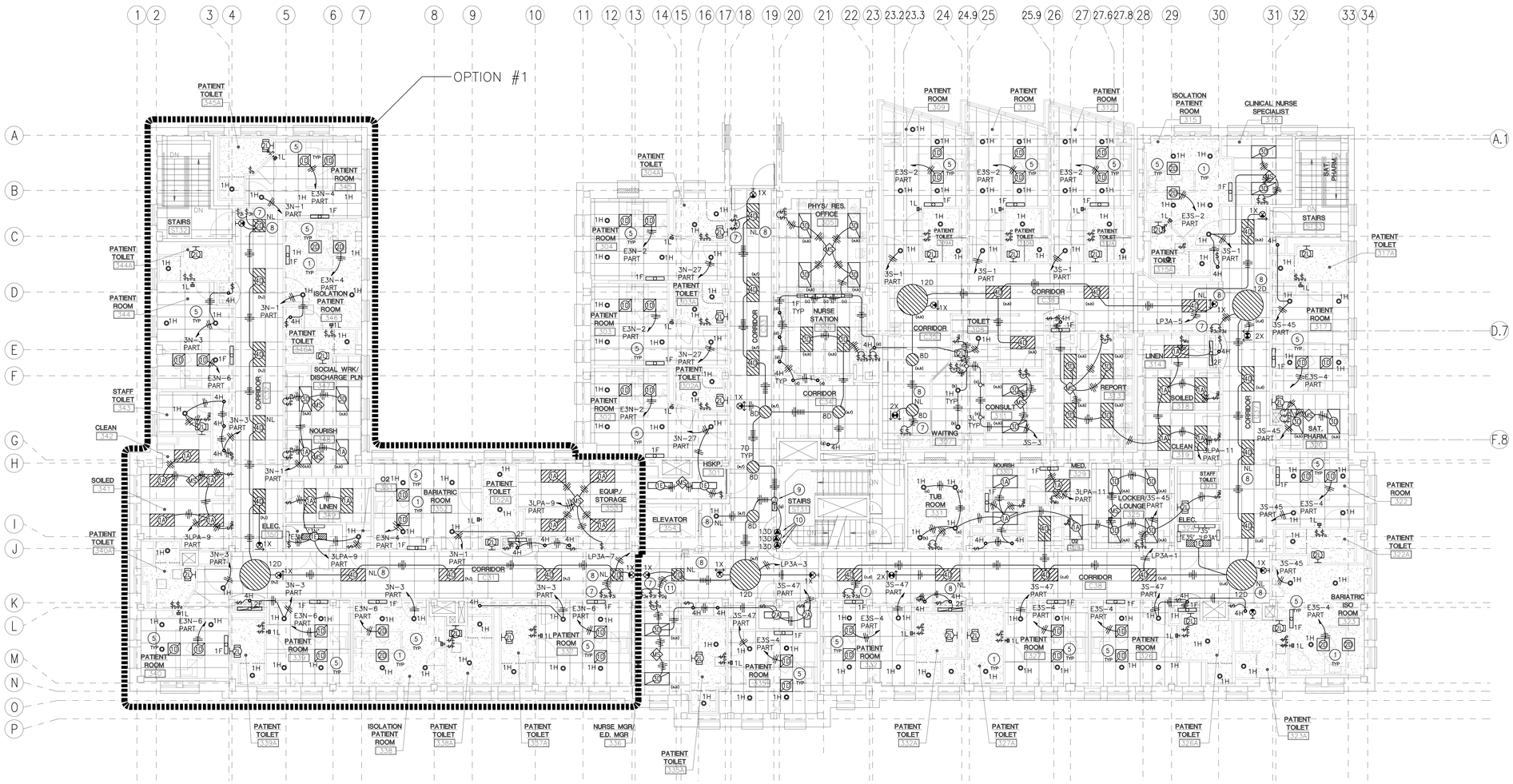
DATE: 07/12/2013

PROJECT NO. 531–320

DRAWING NO. E2.6

DWG 145 OF 191

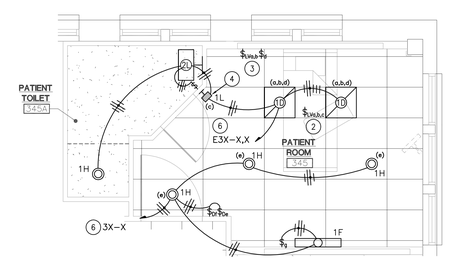
DEPARTMENT OF VETERANS AFFAIRS



TRUE PLAN

1 THIRD FLOOR LIGHTING PLAN

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



TRUE PLAN

2 TYPICAL ENLARGED EXAM ROOM LIGHTING PLAN

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

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

D. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.

E. SHADED FIXTURE SHALL BE ON EMERGENCY/NIGHTLIGHT CIRCUIT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.

F. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.

G. FURNISH AND INSTALL 1000W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI-GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.

H. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.

I. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH ALL OTHER TRADES.

J. EACH SWITCH BOX SHALL HAVE A GROUND AND ASSOCIATED LIGHTING CIRCUIT NEUTRAL CONDUCTOR.

K. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

SHEET NOTES:

1. FURNISH LIGHT FIXTURE WITH FLANGE TO ACCOMMODATE FOR GYBOARD CEILING.
2. 2-BUTTON PATIENT PILLOW SPEAKER CONTROL:
   ONE BUTTON FOR SEQUENTIAL (Seq.) LOW VOLTAGE CONTROL OF (a) AMBIENT/(b) READING LAMPS, AND ONE BUTTON FOR ON/OFF CONTROL OF (c) NIGHT LIGHT IN PILLOW SPEAKER. MOUNT LOW VOLTAGE CONTROLLER IN ACCESSIBLE CEILING SPACE. SEE DIAGRAM ON SHEET E0.2.
3. WALL CONTROL: MOUNTED IN HEAD WALL AT STAFF SIDE OF BED, TYPICAL FOR ALL PATIENT ROOMS. SEE ARCHITECTURAL ELEVATIONS.
   (1) WALL MOUNTED RECESSED GANG BOX WITH ONE BUTTON SWITCH FOR LOW VOLTAGE SEQUENTIAL (Seq.) CONTROL OF (a) AMBIENT (b) READING LAMPS, CONNECT TO LOW VOLTAGE CONTROLLER. SEE SHEET NOTE 2.

   (1) WALL MOUNTED RECESSED GANG BOX WITH TOGGLE SWITCH FOR ON/OFF CONTROL OF (d) EXAM LAMPS FOR PHYSICIAN OR NURSE. SEE SWITCH DIAGRAM ON SHEET E0.2.
4. NIGHT LIGHT. WIRE FOR CONTINUOUS OPERATION.
5. SEE ENLARGED TYPICAL EXAM ROOM LIGHTING PLAN THIS SHEET E2.6/2.
6. SEE INDIVIDUAL EXAM ROOM FOR CIRCUIT AND HOME RUN DESIGNATION.
7. LIGHT FIXTURES IN CORRIDORS SHALL BE STEPPED DIMMED. EACH SWITCH PROVIDES 50% POWER TO THE BALLAST. WHEN BOTH SWITCHES ARE ON, THE LAMPS OPERATE AT FULL LIGHT OUTPUT. WHEN EITHER SWITCH IS OFF, THE LAMPS OPERATE IN DIMMED MODE AND THE BALLAST DRAWS 50% OF THE FULL LIGHT POWER. CORRIDOR LIGHTING SHALL BE CIRCUITED TO THE LIFE SAFETY BRANCH FOR EMERGENCY GENERATOR BACK-UP.
8. NIGHT LIGHT. CONNECT FOR CONTINUOUS OPERATION.
9. FURNISH AND INSTALL LOW VOLTAGE TRANSFORMER MOUNTED ABOVE ACCESSIBLE CEILING. PROVIDE LOW VOLTAGE WIRING FROM TRANSFORMER TO EACH LED LIGHT AS RECOMMENDED BY MANUFACTURER.
10. FURNISH AND INSTALL TYPE '13D' LIGHT FIXTURES VERTICALLY BEHIND 3-FORM PANELS. COORDINATE FINAL LOCATIONS AND MOUNTING WITH ARCHITECTURAL PRIOR TO ROUGH-IN. SEE SHEET A4.8/11.
11. FURNISH AND INSTALL LOW VOLTAGE MAGNETIC DIMMING SWITCH. VERIFY COMPATIBILITY WITH EQUIPMENT AS RECOMMENDED BY MANUFACTURER.

REVISIONS	DATE

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CAD FILE NAME:
531-320_E2.7.DWG

XREF FILE NAME:
531-320_30X42TLBK.DWG
531-320_67a3.DWG
531-320_3rd Panels.DWG
531-320_3rd Lighting.DWG
531-320_67GRID.DWG

DRAWING TITLE
THIRD FLOOR LIGHTING PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
BUILDING 67 EXPANSION

BUILDING NUMBER	CHECKED	DRAWN
67	AKD	DJP

LOCATION
VAMC BOISE, IDAHO

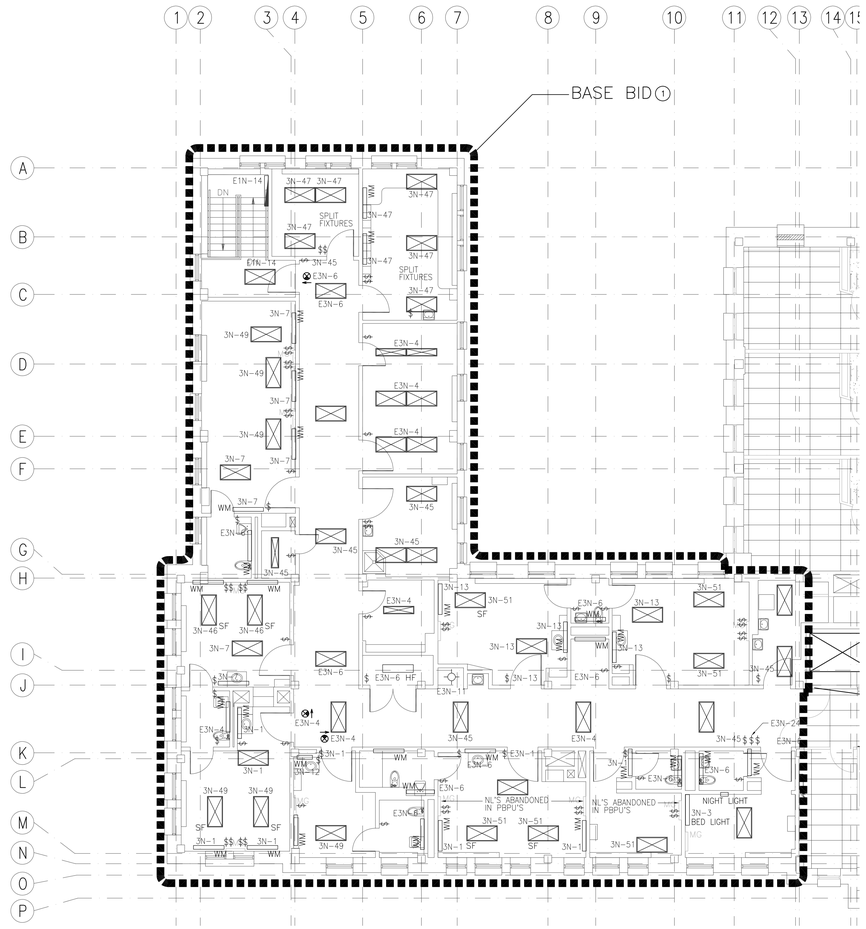
DATE
07/12/2013

PROJECT NO.
531-320

DRAWING NO.
E2.7

DWG 146 OF 191

DEPARTMENT OF VETERANS AFFAIRS



TRUE PLAN

1 THIRD FLOOR LIGHTING PLAN—BASE BID

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

RE: E2.7 FOR ADDITIONAL BASE BID WORK.

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

D. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.

E. SHADED FIXTURE SHALL BE ON EMERGENCY/NIGHTLIGHT CIRCUIT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.

F. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.

G. FURNISH AND INSTALL 1000W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI-GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.

H. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.

I. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH ALL OTHER TRADES.

J. EACH SWITCH BOX SHALL HAVE A GROUND AND ASSOCIATED LIGHTING CIRCUIT NEUTRAL CONDUCTOR.

K. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

SHEET NOTES:

1. EXISTING LIGHTING AND CONTROLS TO REMAIN IN THIS AREA.

REVISIONS	DATE

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9201
7-12-13
STATE OF IDAHO
AMY K. DOCKTER

CAD FILE NAME:
531-320_E2.7A.DWG

XREF FILE NAME:
531-320_30X42TLBK.DWG
531-320_67a3.DWG
531-320_3rd Panels.DWG
531-320_3rd Lighting.DWG

DRAWING TITLE
THIRD FLOOR LIGHTING PLAN BASE BID

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
BUILDING 67 EXPANSION

BUILDING NUMBER 67 | CHECKED AKD | DRAWN DJP

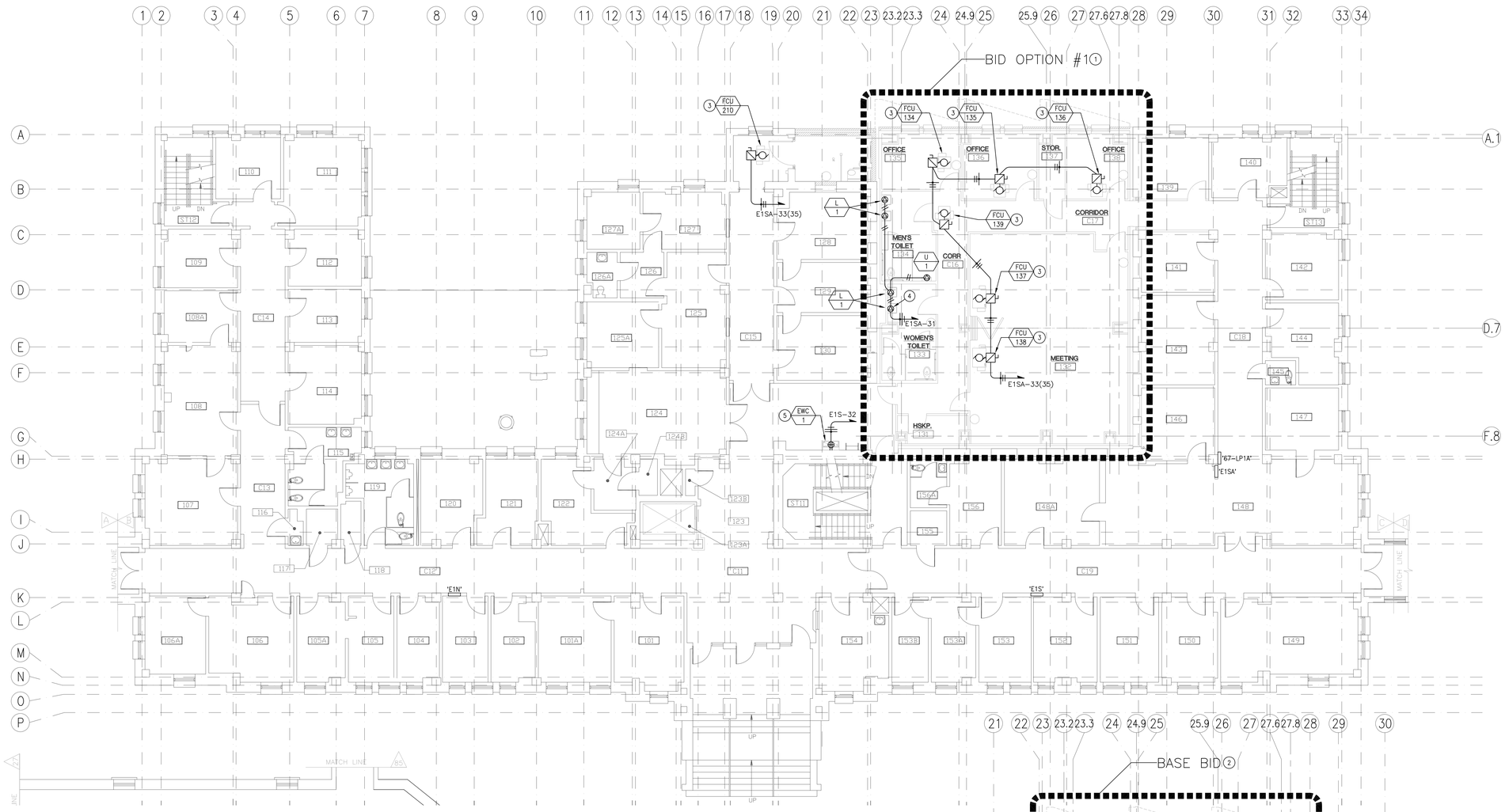
LOCATION
VAMC BOISE, IDAHO

DATE 07/12/2013

PROJECT NO. 531-320

DRAWING NO. E2.7A

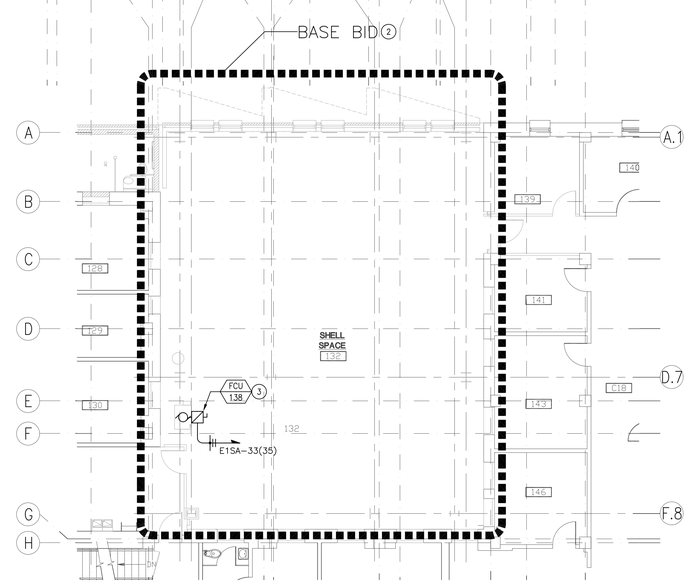
DEPARTMENT OF VETERANS AFFAIRS



TRUE PLAN

1 FIRST FLOOR HVAC POWER PLAN

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



TRUE PLAN

2 FIRST FLOOR PLAN–BASE BID

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

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW MECHANICAL DRAWINGS AND SUBMITTALS, AND PROVIDE ALL LINE VOLTAGE POWER AND INTERLOCK CONDUIT, CONDUCTORS AND TERMINATIONS FOR FULLY OPERATIONAL SYSTEMS. CONDUIT FOR CONTROL WIRING SHALL BE BY ELECTRICAL CONTRACTOR. CONTROL WIRING AND CONNECTIONS FOR MECHANICAL EQUIPMENT SHALL BE BY CONTROLS CONTRACTOR.

E. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. FURNISH AND INSTALL ALL ELECTRICAL BOXES AND CONDUIT RUNS REQUIRED PER MECHANICAL DRAWINGS.

F. FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURERS RECOMMENDATIONS.

G. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120 VOLT POWER FOR THE CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

H. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUITS FOR MECHANICAL SYSTEM CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

I. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

SHEET NOTES:

1. BID OPTION #1. PERFORM ELECTRICAL WORK IN THIS AREA AS INDICATED.
2. BASE BID. NO ELECTRICAL IN THIS AREA.
3. NEW FAN COIL. PROVIDE NEMA 1/30/2 LOCAL DISCONNECT WITH FUSES PER MANUFACTURER'S RECOMMENDATION. MAKE ALL ELECTRICAL CONNECTIONS. COORDINATE INSTALLATION WITH MECHANICAL.
4. FURNISH AND INSTALL ZURN P6000–HW6 HARDWIRE POWER CONVERTER AND ZURN "MJ" MINI JUNCTION BOX IN ACCESSIBLE CEILING. CONNECT LOW VOLTAGE FAUCETS VIA (#18 MINIMUM) CONDUCTORS SIZED PER MANUFACTURER'S RECOMMENDATION BASED ON DISTANCE AND NUMBER OF FAUCETS.
5. REPLACED WATER COOLER. CONNECT AS INDICATED.

REVISIONS	DATE

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PROFESSIONAL ENGINEER
AMY K. DOCKTER
9201
7-12-13
STATE OF IDAHO

CAD FILE NAME:
531–320_E2.8.DWG

XREF FILE NAME:
531–320_30X42TLBK.DWG
531–320_67a1.DWG
531–320_1st Panels.DWG
531–320_M2.2.DWG

DRAWING TITLE
FIRST FLOOR
MECHANICAL POWER PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
BUILDING 67 EXPANSION

BUILDING NUMBER	CHECKED	DRAWN
67	AKD	DJP

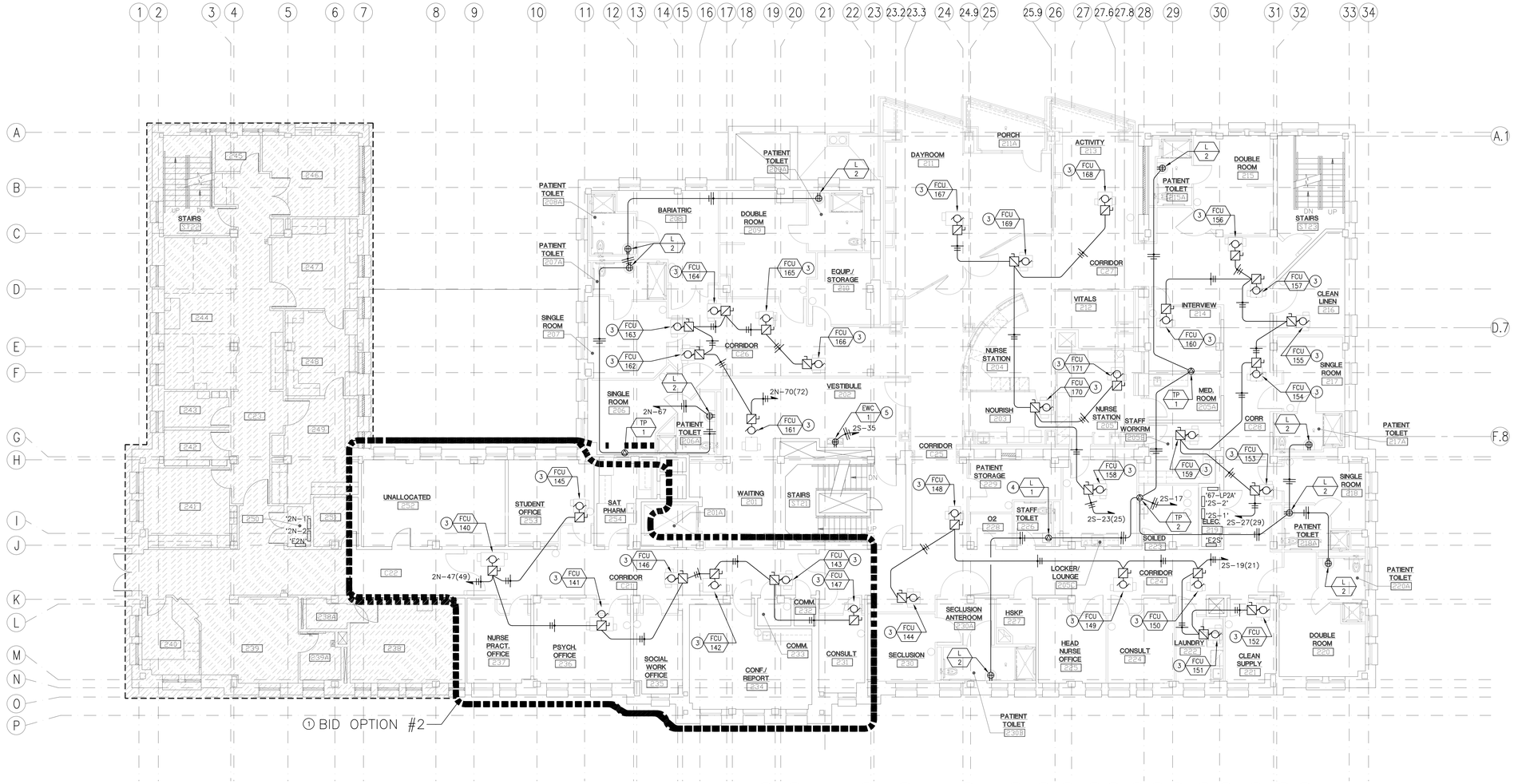
LOCATION
VAMC BOISE, IDAHO

DATE
07/12/2013

PROJECT NO.
531–320

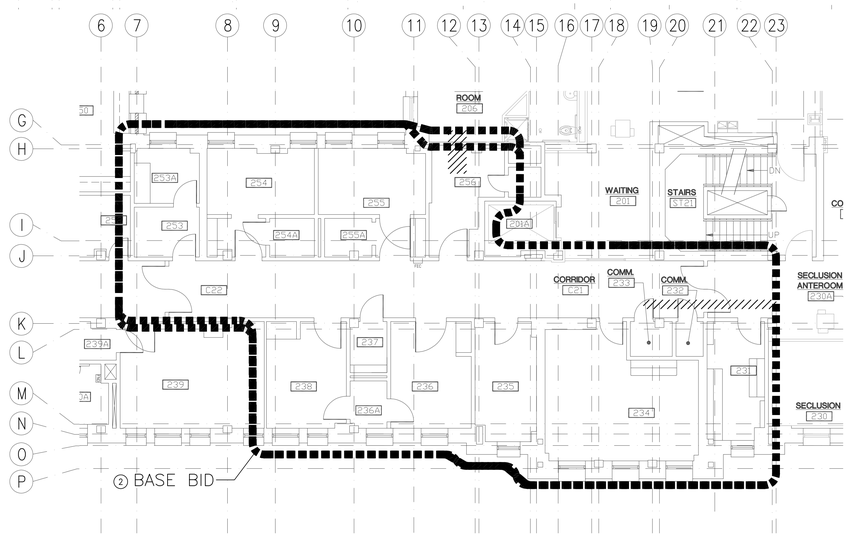
DRAWING NO.
E2.8

DEPARTMENT OF VETERANS AFFAIRS



1 SECOND FLOOR HVAC POWER PLAN

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



2 SECOND FLOOR HVAC POWER PLAN–BASE BID

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

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW MECHANICAL DRAWINGS AND SUBMITTALS, AND PROVIDE ALL LINE VOLTAGE POWER AND INTERLOCK CONDUIT, CONDUCTORS AND TERMINATIONS FOR FULLY OPERATIONAL SYSTEMS. CONDUIT FOR CONTROL WIRING SHALL BE BY ELECTRICAL CONTRACTOR. CONTROL WIRING AND CONNECTIONS FOR MECHANICAL EQUIPMENT SHALL BE BY CONTROLS CONTRACTOR.

E. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. FURNISH AND INSTALL ALL ELECTRICAL BOXES AND CONDUIT RUNS REQUIRED PER MECHANICAL DRAWINGS.

F. FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURERS RECOMMENDATIONS.

G. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120 VOLT POWER FOR THE CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

H. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUITS FOR MECHANICAL SYSTEM CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

I. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

J. THERE IS AN EXISTING GLOBAL CONTROLLER FOR THE MECHANICAL SYSTEM LOCATED ON THE SECOND FLOOR. MAINTAIN POWER TO THE CONTROLLER.

① SHEET NOTES:

1. BID OPTION #2. PERFORM ELECTRICAL WORK IN THIS AREA AS INDICATED.
2. BASE BID. ELECTRICAL IN THIS AREA IS TO REMAIN. RECONNECT ANY CIRCUITS EFFECTED BY ADJACENT DEMOLITION WORK.
3. NEW FAN COIL. PROVIDE NEMA 1/30/2 LOCAL DISCONNECT WITH FUSES PER MANUFACTURER'S RECOMMENDATION. MAKE ALL ELECTRICAL CONNECTIONS. COORDINATE INSTALLATION WITH MECHANICAL.
4. FURNISH AND INSTALL ZURN P6000–HW6 HARDWIRE POWER CONVERTER AND ZURN "MJ" MINI JUNCTION BOX IN ACCESSIBLE CEILING. CONNECT LOW VOLTAGE FAUCETS VIA (#18 MINIMUM) CONDUCTORS SIZED PER MANUFACTURER'S RECOMMENDATION BASED ON DISTANCE AND NUMBER OF FAUCETS.
5. REPLACED WATER COOLER. CONNECT AS INDICATED.

REVISIONS	DATE

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531–320_E2.9.DWG

XREF FILE NAME:
531–320_30X42TLBK.DWG
531–320_67o2.DWG
531–320_2nd Panels.DWG
531–320_M2.4.DWG
531–320_P2.2WA.DWG

DRAWING TITLE
SECOND FLOOR
MECHANICAL POWER PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
BUILDING 67 EXPANSION

BUILDING NUMBER	CHECKED	DRAWN
67	AKD	DJP

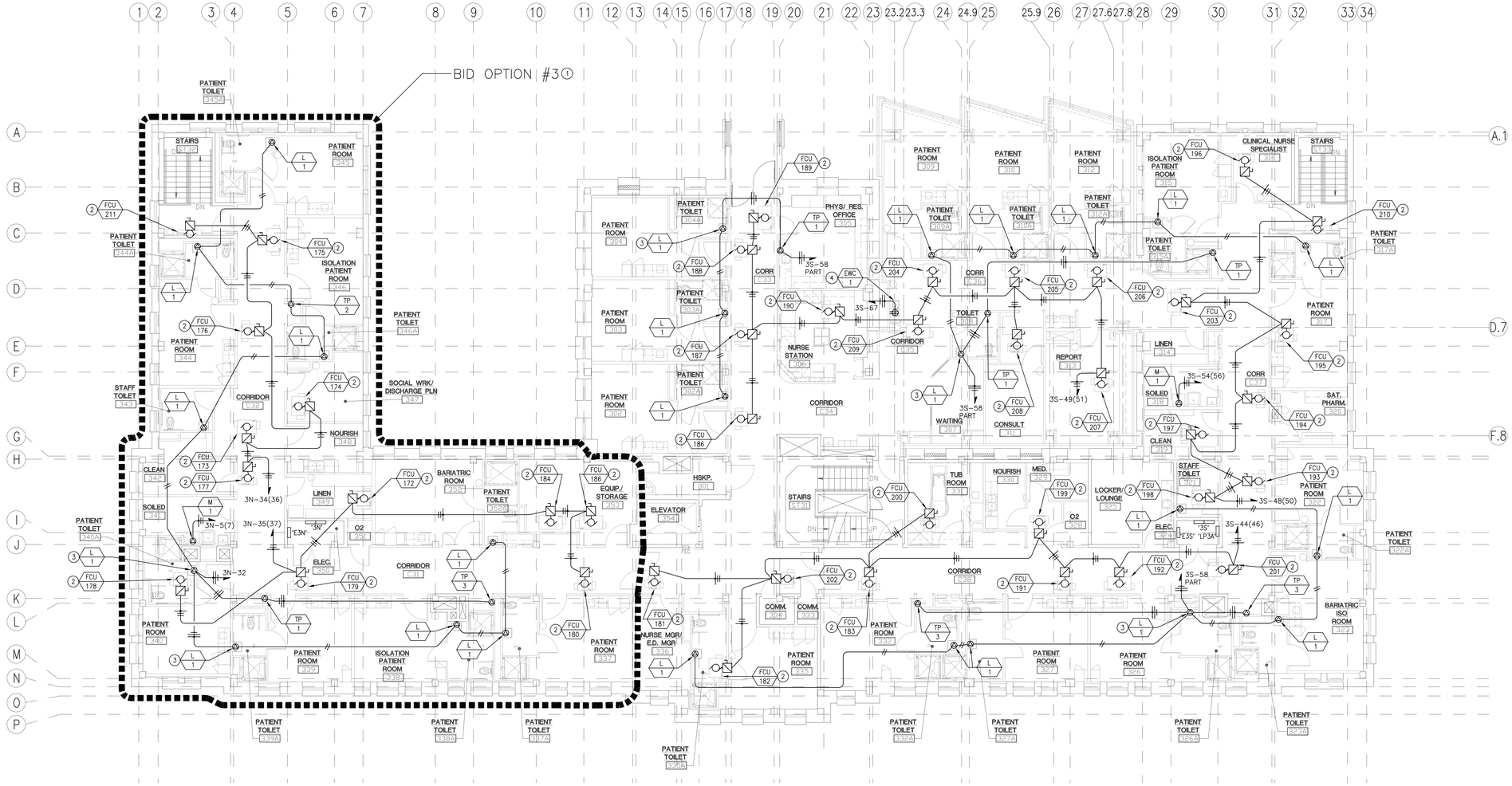
LOCATION
VAMC BOISE, IDAHO

DATE
07/12/2013

PROJECT NO.
531–320

DRAWING NO.
E2.9

DEPARTMENT OF VETERANS AFFAIRS



TRUE PLAN

1 THIRD FLOOR HVAC POWER PLAN

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

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW MECHANICAL DRAWINGS AND SUBMITTALS, AND PROVIDE ALL LINE VOLTAGE POWER AND INTERLOCK CONDUIT, CONDUCTORS AND TERMINATIONS FOR FULLY OPERATIONAL SYSTEMS. CONDUIT FOR CONTROL WIRING SHALL BE BY ELECTRICAL CONTRACTOR. CONTROL WIRING AND CONNECTIONS FOR MECHANICAL EQUIPMENT SHALL BE BY CONTROLS CONTRACTOR.

E. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. FURNISH AND INSTALL ALL ELECTRICAL BOXES AND CONDUIT RUNS REQUIRED PER MECHANICAL DRAWINGS.

F. FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURERS RECOMMENDATIONS.

G. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120 VOLT POWER FOR THE CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

H. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUITS FOR MECHANICAL SYSTEM CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

I. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

SHEET NOTES:

1. BID OPTION #3. PERFORM ELECTRICAL WORK IN THIS AREA AS INDICATED.
2. NEW FAN COIL. PROVIDE NEMA 1/30/2 LOCAL DISCONNECT WITH FUSES PER MANUFACTURER'S RECOMMENDATION. MAKE ALL ELECTRICAL CONNECTIONS. COORDINATE INSTALLATION WITH MECHANICAL.
3. FURNISH AND INSTALL ZURN P6000-HW6 HARDWIRE POWER CONVERTER AND ZURN 'MJ' MINI JUNCTION BOX IN ACCESSIBLE CEILING. CONNECT LOW VOLTAGE FAUCETS VIA (#18 MINIMUM) CONDUCTORS SIZED PER MANUFACTURER'S RECOMMENDATION BASED ON DISTANCE AND NUMBER OF FAUCETS.
4. REPLACED WATER COOLER. CONNECT AS INDICATED.

REVISIONS	DATE

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CAD FILE NAME:
531-320_E2.10.DWG

XREF FILE NAME:
531-320_30X42TLBK.DWG
531-320_67a3.DWG
531-320_3rd Panels.DWG
531-320_M2.6.DWG
531-320_P2.3WA.DWG

DRAWING TITLE
THIRD FLOOR
MECHANICAL POWER PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
BUILDING 67 EXPANSION

BUILDING NUMBER	CHECKED	DRAWN
67	AKD	DJP

LOCATION
VAMC BOISE, IDAHO

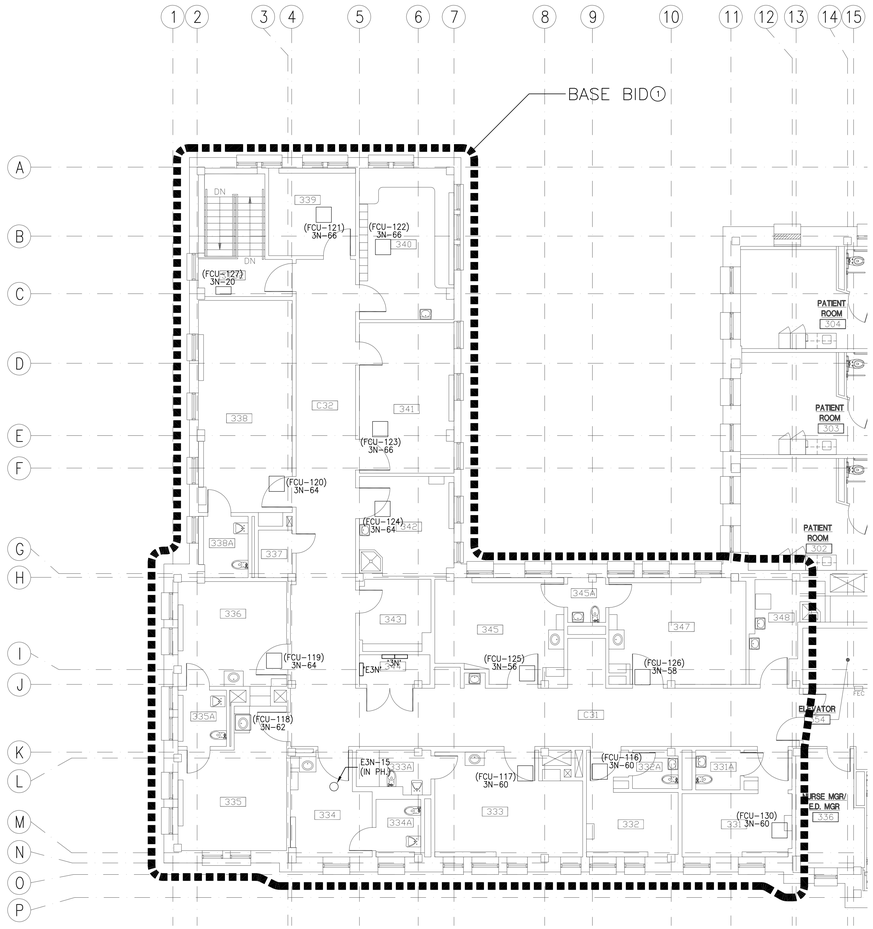
DATE 07/12/2013

PROJECT NO. 531-320

DRAWING NO. E2.10

DWG 150 OF 191

DEPARTMENT OF VETERANS AFFAIRS



TRUE PLAN

1 THIRD FLOOR HVAC POWER PLAN–BASE BID

SCALE: 1/8" = 1'–0"

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

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E. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. FURNISH AND INSTALL ALL ELECTRICAL BOXES AND CONDUIT RUNS REQUIRED PER MECHANICAL DRAWINGS.

F. FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURERS RECOMMENDATIONS.

G. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120 VOLT POWER FOR THE CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

H. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUITS FOR MECHANICAL SYSTEM CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

I. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

SHEET NOTES:

1. BASE BID. ELECTRICAL IN THIS AREA IS TO REMAIN AS–IS. RECONNECT ANY CIRCUITS AFFECTED BY ADJACENT DEMOLITION WORK.

REVISIONS	DATE

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AMY K. DOCKTER

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XREF FILE NAME:
531–320_30X42TLBK.DWG
531–320_67a3.DWG
531–320_3rd Panels.DWG

DRAWING TITLE
THIRD FLOOR
MECHANICAL POWER PLAN
BASE BID

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
BUILDING 67 EXPANSION

BUILDING NUMBER	CHECKED	DRAWN
67	AKD	DJP

LOCATION
VAMC BOISE, IDAHO

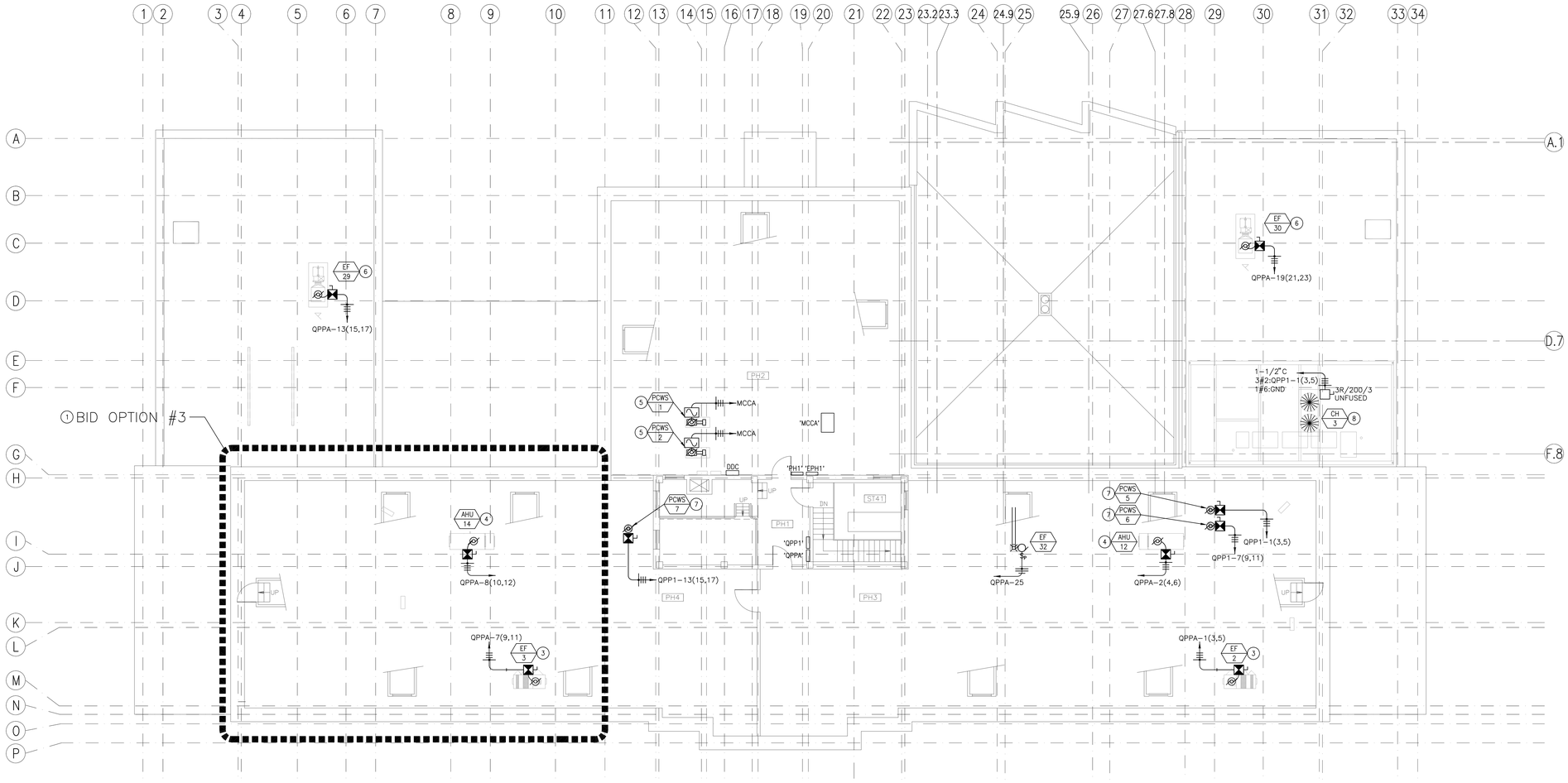
DATE
07/12/2013

PROJECT NO.
531–320

DRAWING NO.
E2.10A

DWG 151 OF 191

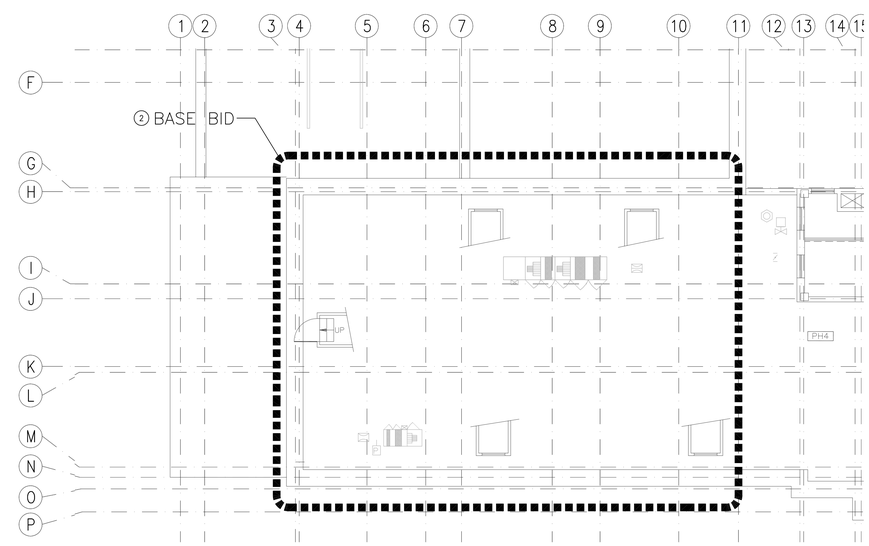
DEPARTMENT OF VETERANS AFFAIRS



TRUE PLAN

PENTHOUSE MECHANICAL POWER PLAN
1 BASE BID & BID OPTION 3

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



TRUE PLAN

PENTHOUSE MECHANICAL POWER PLAN
2 BASE BID

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

GENERAL NOTES:

A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW MECHANICAL DRAWINGS AND SUBMITTALS, AND PROVIDE ALL LINE VOLTAGE POWER AND INTERLOCK CONDUIT, CONDUCTORS AND TERMINATIONS FOR FULLY OPERATIONAL SYSTEMS. CONDUIT FOR CONTROL WIRING SHALL BE BY ELECTRICAL CONTRACTOR. CONTROL WIRING AND CONNECTIONS FOR MECHANICAL EQUIPMENT SHALL BE BY CONTROLS CONTRACTOR.

E. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. FURNISH AND INSTALL ALL ELECTRICAL BOXES AND CONDUIT RUNS REQUIRED PER MECHANICAL DRAWINGS.

F. FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURERS RECOMMENDATIONS.

G. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120 VOLT POWER FOR THE CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

H. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUITS FOR MECHANICAL SYSTEM CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

I. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

SHEET NOTES:

1. BID OPTION #3. PERFORM ELECTRICAL WORK IN THIS AREA AS INDICATED.
2. BASE BID. ELECTRICAL IN THIS AREA TO REMAIN OPERATIONAL.
3. EXISTING EXHAUST FAN RELOCATED BY MECHANICAL. EXTEND EXISTING CONDUIT, FURNISH AND INSTALL NEW CONDUCTORS AND BREAKER. FURNISH AND INSTALL NEW MOTOR STARTER/LOCAL DISCONNECT. MAKE ALL CONNECTIONS. VERIFY ALL REQUIREMENTS AND COORDINATE WORK WITH MECHANICAL.
4. REPLACED AIR HANDLING UNIT BY MECHANICAL. EXTEND EXISTING CONDUIT, FURNISH AND INSTALL NEW CONDUCTORS AND BREAKER. FURNISH AND INSTALL NEW MOTOR STARTER/LOCAL DISCONNECT. MAKE ALL CONNECTIONS. VERIFY ALL REQUIREMENTS AND COORDINATE WORK WITH MECHANICAL.
5. REPLACED PUMPS BY MECHANICAL. EXTEND EXISTING CONDUIT, FURNISH AND INSTALL NEW CONDUCTORS. REPLACE EXISTING ASSOCIATED MOTOR STARTER IN 'MCCA' WITH FUSED LOCAL DISCONNECT SWITCH BUCKET, FUSE SIZE PER MOTOR REQUIREMENTS. MECHANICAL SHALL FURNISH AND INSTALL NEW VARIABLE FREQUENCY CONTROLLER ADJACENT TO PUMP. MAKE ALL CONNECTIONS. VERIFY ALL REQUIREMENTS AND COORDINATE WORK WITH MECHANICAL.
6. NEW EXHAUST FAN BY MECHANICAL. FURNISH AND INSTALL NEW NEMA 3R MOTOR STARTER/LOCAL DISCONNECT. MAKE ALL CONNECTIONS. VERIFY ALL REQUIREMENTS AND COORDINATE WORK WITH MECHANICAL.
7. NEW PUMP BY MECHANICAL. FURNISH AND INSTALL NEW NEMA 1 MOTOR STARTER/LOCAL DISCONNECT. MAKE ALL CONNECTIONS. VERIFY ALL REQUIREMENTS AND COORDINATE WORK WITH MECHANICAL.
8. NEW CHILLER BY MECHANICAL. FURNISH AND INSTALL NEW CONDUCTORS AND BREAKER. FURNISH AND INSTALL NEW LOCAL DISCONNECT. MAKE ALL CONNECTIONS. VERIFY ALL REQUIREMENTS AND COORDINATE WORK WITH MECHANICAL.

REVISIONS	DATE

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CAD FILE NAME:
531-320_E2.11.DWG

XREF FILE NAME:
531-320_30X42TLBK.DWG
531-320_67qph.DWG
531-320_67GRID.DWG
531-320_M1.6.DWG
531-320_M2.7.DWG

DRAWING TITLE: PENTHOUSE MECHANICAL POWER PLAN

PROJECT TITLE: BOISE VAMC BUILDING 67 EXPANSION

DATE: 07/12/2013

PROJECT NO.: 531-320

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

BUILDING NUMBER: 67 | CHECKED: AKD | DRAWN: DJP

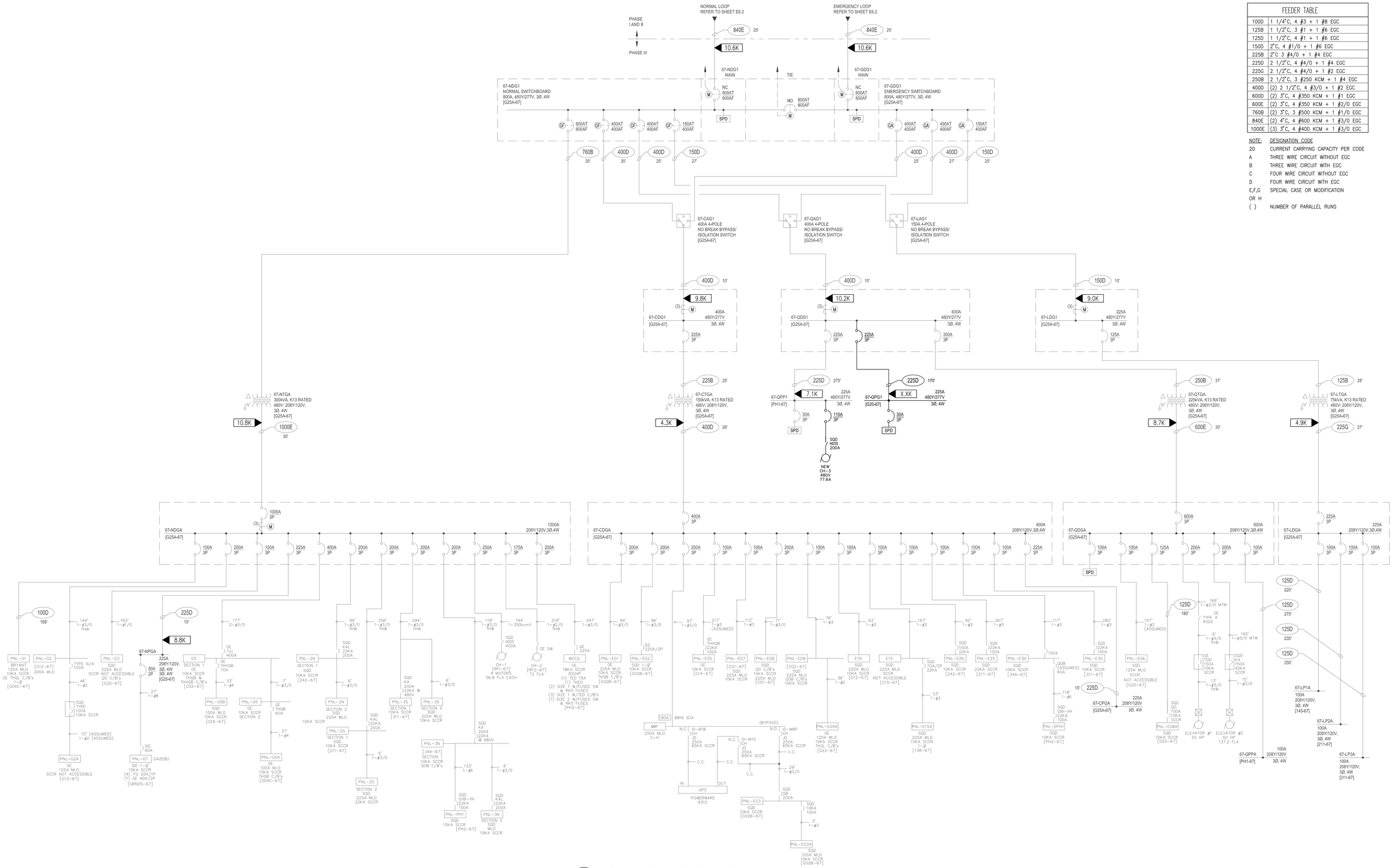
DRAWING NO.: E2.11

APPROVED: MEDICAL CENTER DIRECTOR

LOCATION: VAMC BOISE, IDAHO

DWG 152 OF 191

DEPARTMENT OF VETERANS AFFAIRS



1 SINGLE LINE DIAGRAM
SCALE: NONE

FEEDER TABLE	
100D	1 1/4"C, 4 #3 + 1 #8 EGC
125B	1 1/2"C, 3 #1 + 1 #6 EGC
125D	1 1/2"C, 4 #1 + 1 #6 EGC
150D	2"C, 4 #1/0 + 1 #6 EGC
225B	2"C 3 #4/0 + 1 #4 EGC
225D	2 1/2"C, 4 #4/0 + 1 #4 EGC
225G	2 1/2"C, 4 #4/0 + 1 #2 EGC
250B	2 1/2"C, 3 #250 KCM + 1 #4 EGC
400D	(2) 2 1/2"C, 4 #3/0 + 1 #2 EGC
600D	(2) 3"C, 4 #350 KCM + 1 #1 EGC
600E	(2) 3"C, 4 #350 KCM + 1 #2/0 EGC
760B	(2) 3"C, 3 #500 KCM + 1 #1/0 EGC
840E	(2) 4"C, 4 #600 KCM + 1 #3/0 EGC
1000E	(3) 3"C, 4 #400 KCM + 1 #3/0 EGC

NOTE:	DESIGNATION CODE
20	CURRENT CARRYING CAPACITY PER CODE
A	THREE WIRE CIRCUIT WITHOUT EGC
B	THREE WIRE CIRCUIT WITH EGC
C	FOUR WIRE CIRCUIT WITHOUT EGC
D	FOUR WIRE CIRCUIT WITH EGC
E,F,G OR H	SPECIAL CASE OR MODIFICATION
( )	NUMBER OF PARALLEL RUNS

REVISIONS	DATE

CSHQA

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9201
7-12-13
STATE OF IDAHO
AMY K. DOCKTER

CAD FILE NAME: 531-320_E3.1.DWG
XREF FILE NAME: 531-320_30X42TLBK.DWG

DRAWING TITLE: SINGLE LINE DIAGRAM
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: BOISE VAMC BUILDING 67 EXPANSION
BUILDING NUMBER: 67
CHECKED: AKD
DRAWN: DJP
LOCATION: VAMC BOISE, IDAHO

DATE: 07/12/2013
PROJECT NO.: 531-320
DRAWING NO.: E3.1
DWG 153 OF 191

DEPARTMENT OF VETERANS AFFAIRS

PANEL 'G3'

208Y/120-VOLT, 3-PHASE, 4-WIRE
200-AMP, MAIN LUGS ONLY — MOUNTING: SURFACE
NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	10	0.0%					1	20	0.0			15	3					0.0%	10	2
3	10	0.0%					1	15		0.0		**	*					0.0%	10	4
5	10	0.0%					1	20			0.0	**	*					0.0%	10	6
7	12	0.0%					1	15	0.0			15	3					0.0%	12	8
9	12	0.0%					1	20		0.0		**	*					0.0%	12	10
11	12	0.0%					1	20			0.0	**	*					0.0%	12	12
13	10	0.0%					1	20	0.0			20	1					0.0%	10	14
15	10	0.0%					1	20		0.0		20	1					0.0%	10	16
17	10	0.0%					1	20			0.0	20	3					0.0%	10	18
19	6	0.0%					2	20	0.0			**	*					0.0%	6	20
21	6	0.0%					*	**		0.0		**	*					0.0%	6	22
23	6	0.0%					3	30			0.0						BLANK			24
25	12	0.0%					*	**	0.0								BLANK			26
27	12	0.0%					*	**		0.0							BLANK			28
29			BLANK								0.0						BLANK			30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	0	0	0						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	0.0	100%	0.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	0.0	0%	0.0	MINIMUM FEEDER: 0-AMPS

PANEL 'EG6'

208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY — MOUNTING: SURFACE
NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	10	0.0%					3	40	0.0			60	3					0.0%	10	2
3	10	0.0%					*	**		0.0		**	*					0.0%	10	4
5	10	0.0%					*	**			0.0	**	*					0.0%	10	6
7			BLANK						0.0			20	2					0.0%	12	8
9			BLANK							0.0		**	*					0.0%	12	10
11			BLANK								0.0						BLANK			12
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	0	0	0						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	0.0	100%	0.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	0.0	0%	0.0	MINIMUM FEEDER: 0-AMPS

PANEL '67-LP1A'

208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY — MOUNTING: SURFACE
NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			(E)LTS-EGRESS & EXIT (SOUTH)			3.3	1	20	8.3			20	1	5.0			(E)FIRE ALARM CONTROL PANEL			2
3			(E)LTS-EGRESS & EXIT (CENTER)			3.3	1	20		7.0		20	1	3.7			LTS-C16, 133,134	0.7%	12	4
5			(E)LTS-EGRESS & EXIT (NORTH)			3.3	1	20			3.3	20	1				SPARE			6
7			SPARE				1	20	0.0			20	1				SPARE			8
9			SPARE				1	20		0.0		20	1				SPARE			10
11			SPARE				1	20			0.0	20	1				SPARE			12
13			SPARE				1	20	0.0			20	1				SPARE			14
15			SPARE				1	20		0.0		20	1				SPARE			16
17			SPARE				1	20			0.0	20	1				SPARE			18
19			SPARE				1	20	0.0			20	1				SPARE			20
21			SPARE				1	20		0.0		20	1				SPARE			22
23			SPARE				1	20			0.0	20	1				SPARE			24
25			SPARE				1	20	0.0			20	1				SPARE			26
27			SPARE				1	20		0.0		20	1				SPARE			28
29			SPARE				1	20			0.0	20	1				SPARE			30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	8	7	3						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	2.2	100%	2.2	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	2.2	100%	2.2	MINIMUM FEEDER: 6-AMPS

PANEL 'E1N'

208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY — MOUNTING: FLUSH
NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			(E)LTS C11,C12,C13				1	20	8.0			20	1	8.0			LTS - 131,132	1.7%	12	2
3			(E)LTS EXT; REC-107,108,108A,111-113				1	20		0.0		20	1				(E)FCU 101A, 102			4
5			(E)LTS-104-106; FCU-104-106A				1	20			0.0	20	1				(E)REC-106A			6
7			(E)LTS-101-103; REC-101; FCU-101, 103				1	20	0.0			20	1				(E)LTS-123,125A,125B; REC-122A,123,125A,128,128A; FCU-43; EF-11			8
9			(E)REC-122A,123,125A,125B,129				1	20		0.0		20	1				(E)LTS-125,126A,128,128A; REC-122,122A; FCU-44, 47, 48			10
11			(E)LTS-107, 108				1	20			0.0	20	1				(E)LTS-122A			12
13			(E)REC-125,126,126A				1	20	0.0			20	1				(E)LTS-108A,111,STG2,ST12,ST22,ST32, EXT STG2; REC-111; FCU-34, 35, 36, 37			14
15			(E)LTS-122				1	20		0.0		20	1				(E)LTS-126,127,127A, EXIT C14; REC-126, 127, 127A; FCU-48			16
17			(E)LTS-C14, EXT C14; REC-133				1	20			0.0	20	1				(E)REC-C14			18
19			(E)LTS-124; REC-125B				1	20	0.0			20	1				(E)REC-104, 105, 106, 106A			20
21			(E)REC-106A				1	20		0.0		20	1				ABANDONED			22
23			(E)REC-130				1	20			0.0	20	1				(E)LTS-125; REC-125			24
25			(E)FCU-125,FCU-45				1	20	0.0			20	1				ABANDONED			26
27			AUTO DOORS C11 (MAIN ENTRY)				1	20		0.0		20	1				REC-C12, C13			28
29			(E)REC-101A				1	20			0.0	20	1				(E)REC-116			30
31			(E)REC-101A				1	20	0.0			20	1				(E)LTS-112-115; REC 121; FCU-38-41			32
33			(E)REC-101				1	20		0.0		20	1				(E)LTS-116-121; REC-120; FCU-42			34
35			(E)REC-101				1	20			0.0	20	1				(E)REC-113, 114, 115			36
37			(E)REC-102,103				1	20	0.0			20	1				(E)REC-116			38
39	10	2.0%	LTS - C16,135,136,138			9.8	1	20		9.8		20	1				(E)REC-116			40
41			BLANK				1	20			0.0	20	1				BLANK			42
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	8	10	0						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	2.1	100%	2.1	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	2.1	100%	2.1	MINIMUM FEEDER: 6-AMPS

PANEL 'E1S'

208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY — MOUNTING: FLUSH
NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			(E)LTS-C11, C14, C15; REC-R135; FCU-35				1	20	0.0			20	1				(E)REC-147, 148			2
3			(E)LTS-149				1	20		0.0		20	1				SPARE			4
5			(E)LTS-146,147; REC-146,147; FCU-57				1	20			0.0	20	1				SPARE			6
7			(E)LTS-148; REC-148,149; FCU-67				1	20	0.0			20	1				(E)REC-131; FCU-49			8
9			(E)LTS-133, C11, C14, C15				1	20		0.0		20	1				(E)REC-RM129, 130, 131			10
11			(E)LTS-150,A&B; REC-150,A&B,151;FCU-68,69,70,71				1	20			0.0	20	1				ABANDONED			12
13			ABANDONED				1	20	0.0			20	1				(E)LTS-135-137; REC-135-137; FCU-53, FCU-54			14
15			ABANDONED				1	20		0.0		20	1				MADE SPARE DUE TO DEMOLITION			16
17			ABANDONED				1	20			0.0	20	1				ABANDONED			18
19			SPARE				1	20	0.0			20	1				(E)REC-146; FCU-65			20
21			MADE SPARE DUE TO DEMOLITION				1	20		0.0		20	1				(E)REC-136, 137			22
23			REC - RM 136			6.0	1	20			6.0	20	1				(E)REC-131			24
25			REC - RM 136 / RM135			6.0	1	20	6.0			20	1				(E)REC-151			26
27			REC - RM 135			6.0	1	20		6.0		20	1				(E)LTS-151; REC-151; FCU-72			28
29			(E)REC-149, 150				1	20			0.0	20	1				(E)REC-150A, 150B			30
31			(E)LTS-C15; REC C15				1	20	5.0			20	1	5.0			REC - WATER FOUNTAIN			32
33			REC - RM139 / RM138			6.0	1	20		12.0		20	1	6.0			REC - RM132			34
35			REC - RM138			6.0	1	20			10.5	20	1	4.5			REC - RM132			36
37			PNL E1SA, 138-67				1	20	0.0			20	1				Not Useable			38
39			PNL E1SA, 138-67				1	20		0.0		20	1				Not Useable			40
41			REC - REST ROOMS 133 / 134			3.0	1	20			10.5	20	1	7.5			REC - RM131, C16, C17			42
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	11	18	27						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	6.7	100%	6.7	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	6.7	100%	6.7	MINIMUM FEEDER: 19-AMPS

PANEL 'E1SA'

208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY — MOUNTING: FLUSH
NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			(E)LTS-142A, 144, C16, STG3, ST13, ST23, ST33, C16, Exterior (at STG3); REC-142A, 144; FCU-60, FCU-63				1	20	0.0			20	1				(E)LTS-138; REC-138; FCU-55			2
3			ABANDONED				1	20		0.0		20	1				(E)LTS-139; REC-139; FCU-56, 57			4
5			(E)REC-C16				1	20			0.0	20	1				(E)LTS-141, 142; REC-140, 141; FCU-58, 59			6
7			(E)LTS-143A, 143B; REC-143A; FCU-61,62				1	20	0.0			20	1				(E)REC-138			8
9			ABANDONED				1	20		0.0		20	1				(E)REC-138			10
11			(E)LTS-145; REC-144, 145				1	20			0.0	20	1				(E)REC-138			12
13			(E)REC-145				1	20	0.0			20	1				SPARE			14
15			(E)REC-145				1	20		0.0		20	1				SPARE			16
17			(E)FCU-64				1	20			0.0	20	1				SPARE			18
19			SPARE				1	20	0.0			20	1				SPARE			20
21			(E)LTS-143; REC-143, 143A				1	20		0.0		20	1				SPARE			22
23			(E)REC-143A, 143B, 144				1	20			0.0	20	1				SPARE			24
25			(E)REC-139, 140, 142, C16				1	20	0.0			20	1				SPARE			26
27			(E)LTS-140				1	20		0.0		20	1				SPARE			28
29			SPARE				1	20			0.0	20	1				SPARE			30
31	12	0.1%	LAVS 133,134	L-1		1.0	1	20	1.0			20	1				SPARE			32
33	12	0.9%	FAN COILS RMS 132-138	FCU		7.2	2	20		7.2		20	1				SPARE			34
35	12	0.9%	FAN COILS RMS 132-138	FCU		7.2	*	**			7.2	20	1				SPARE			36
37			BLANK						0.0								BLANK			38
39			BLANK							0.0							BLANK			40
41			BLANK								0.0						BLANK			42
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	1	7	7						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	0.1	100%	0.1	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	1.5	125%	1.9	
TOTALS:	1.6	123%	2.0	MINIMUM FEEDER: 6-AMPS

PANEL '2N SECT 1'

208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY — MOUNTING: FLUSH
NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	12	0.2%	(E)LTS-RM231, 243, C21, C22, C23			1.6	1	20	1.6			20	1				(E)REC-RM202			2
3			(E)LTS-RM236A, 236B, 241				1	20		0.0		20	1				(E)REC-RM203			4
5			(E)LTS-RM236,236C,237-240,C27				1	20			0.0	20	1				(E)REC-RM201A&B, 204-206, C24; FCU-101			6
7	12	0.8%	LTS-RM250, 251,252			8.0	1	20	8.0								BLANK			8
9	12	1.5%	LTS -230,231,232,233,234,235			11.2	1	20		11.2							BLANK			10
11			(E)LTS-RM230-235				1	20			0.0	20	1				(E)REC-RM244, C22			12
13			(E)RM201-FCU-74, FCU-75				1	20	0.0			20	1				(E)REC-RM247, C22			14
15			(E)LTS-RM230, 232;Doors C22/C23				1	20		0.0		20	1				(E)REC-RM236			16
17			(E)REC-240, 241, C27, HVAC Control Panel 241 (DDC)				1	20			0.0	20	1				(E)REC-RM245, 245A, 246A			18
19			(E)Heated Ceiling 246 (30/2)				2	30	0.0			20	1				(E)REC-RM229			20
21			(E)Heated Ceiling 246 (30/2)				*	**		0.0		20	1				(E)REC-RM236			22
23			(E)REC-RM236C;236C; Slave Monitor 236C				1	20			0.0	20	1				(E)REC-RM230, 230A, 232, 233, 233A, 234A			24
25			(E)REC-236A, 236B, 236C ; Slave Monitor 236A				1	20	0.0			20	1				(E)REC-RM237 ICE MACHINE			26
27			(E)REC-RM236A, 236B; View Box 236A				1	20		0.0		20	1				(E)REC-RM237 REFRIGERATOR			28
29			(E)REC-RM236B				1	20			0.0	20	1				(E)REC-237, 238, 239, 237			30
31			(E)REC-RM236B				1	20	0.0			30	2				(E)Heated Ceiling 245 (30/2)			32
33			(E)REC-RM236B, 236C				1	20		0.0		**	*				(E)Heated Ceiling 245 (30/2)			34
35			(E)REC-C23, C27				1	20			6.0	20	1	6.0			REC - RM 232			36
37			(E)REC-RMC27				1	20	7.5			20	1	7.5			REC - RM 232			38
39			(E)REC-RM237, 242				1	20		3.0		20	1	3.0			REC - RM 232			40
41			BLANK								0.0						BLANK			42
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	17	14	6						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	2.5	125%	3.1	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	2.0	100%	2.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	4.5	114%	5.1	MINIMUM FEEDER: 14-AMPS

PANEL '2N SECT 2'

208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY — MOUNTING: FLUSH
NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
43			SPARE				1	20	0.0			20	1				SPARE			44
45			(E)REC-RM234, 235				1	20		0.0		20	1				SPARE			46
47			SPARE				1	20			0.0	30	2				(E)DRYER			48
49			SPARE				1	20	0.0			**	*				(E)DRYER			50
51			(E)REC-RM236B				1	20		0.0		20	1				(E)REC-RM243			52
53			SPARE				1	20			0.0	20	1				(E)REC-RM243			54
55			SPARE				1	20	3.3			20	1	3.3			LTS- SKY BOXES	0.6%	12	56
57			(E)REC-RM234, FCU-94				1	20		9.7		20	1	9.7			LTS SKY BOX, 201, 202	1.8%	12	58
59			(E)Auto Door C23/C27				1	20			0.0	20	1				SPARE			60
61			(E)RM241 AHU-4; RM241 EF-4				2	30	0.0			20	2				(E)Fan Coil C23 (FCU-1)			62
63			(E)RM241 AHU-4; RM241 EF-4				*	**		0.0		**	*				(E)Fan Coil C23 (FCU-1)			64
65			(E)RM241 AHU-4; RM241 EF-4				*	**			0.0						BLANK			66
67			SPARE				3	30	1.0			20	1	1.0		L,TP	LAVS, TRAP PRIMER RM 206-209	0.1%	12	68
69			SPARE				*	**		7.2		20	2	7.2		FCU	FAN COILS RMS 202,206-209	0.9%	12	70
71			SPARE				*	**			7.2	**	*	7.2		FCU	FAN COILS RMS 202,206-209	0.9%	12	72
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	4	17	7						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	1.7	100%	1.7	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	1.5	125%	1.9	
TOTALS:	3.2	112%	3.6	MINIMUM FEEDER: 10-AMPS

PANEL 'E2N'

208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY — MOUNTING: FLUSH
NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER IN BLANK SPACE.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	12	0.4%	ELECTRONIC DOORS			5.0	1	20	5.0			20	1				(E)REC-RM233			2
3			SPARE				1	20		2.1		20	1	2.1			(E)LTS-C22, C23, Exit C23			4
5			SPARE				1	20			0.0	20	1				(E)LTS-RM201,201A,201B			6
7	12	1.5%	LTS-RM206-210			7.1	1	20	7.1			20	1				SPARE			8
9			(E)REC-RM236, C27				1	20		0.0		20	1				(E)NLTS-RM230, 232, 233, 245, 246			10
11			SPARE				1	20			0.0	20	1				(E)LTS-RM230, 232			12
13			(E)REC-RM236C				1	20	0.0			20	1				SPARE			14
15			(E)REC-RM236				1	20		0.0							BLANK			16
17			(E)REC-RM236				1	20			0.0						BLANK			18
19			(E)REC-RM236A				1	20	0.0								BLANK			20
21			BLANK							0.0							BLANK			22
23			REC - COMM RM 231	1		7.5	1	20			7.5						BLANK			24
25			(E)MAIN BREAKER				3	100	0.0								Not Usable			26
27			(E)MAIN BREAKER				*	***		0.0							Not Usable			28
29			(E)MAIN BREAKER				*	***			0.0						Not Usable			30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	12	2	8						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	2.6	100%	2.6	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	2.6	100%	2.6	MINIMUM FEEDER: 7-AMPS

BREAKER TYPE LEGEND:

GFCI.	GROUND FAULT CIRCUIT INTERRUPTER TYPE BREAKER WITH 4 TO 6 MILLIAMP TRIP LEVEL.	LO.	LOCK ON BREAKER HANDLE DEVICE. PROVIDE RED COLORED HANDLE BREAKER.
GFPE.	GROUND FAULT PROTECTION OF EQUIPMENT TYPE BREAKER WITH 30 MILLIAMP TRIP LEVEL.	ST.	SHUNT TRIP BREAKER.
HACR.	HEATING, AIR CONDITIONING, REFRIGERATION TYPE BREAKER.	SWD.	SWITCH RATED DUTY TYPE BREAKER.

THREE INCHES = ONE FOOT
ONE AND ONE HALF INCHES = ONE FOOT
ONE INCH = ONE FOOT
THREE QUARTERS INCH = ONE FOOT
ONE HALF INCH = ONE FOOT
THREE EIGHTHS INCH = ONE FOOT
ONE QUARTER INCH = ONE FOOT
ONE EIGHTH INCH = ONE FOOT

REVISIONS | DATE

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CAD FILE NAME: 531-320_E3.2.DWG
XREF FILE NAME: 531-320_30X42TLBK.DWG

DRAWING TITLE: PANEL SCHEDULES	PROJECT TITLE: BOISE VAMC BUILDING 67 EXPANSION	DATE: 07/12/2013	PROJECT NO. 531-320
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	BUILDING NUMBER: 67 / CHECKED: AKD / DRAWN: CRP	DRAWING NO. E3.2	
APPROVED: MEDICAL CENTER DIRECTOR	LOCATION: VAMC BOISE, IDAHO	DWG 154 OF 191	

DEPARTMENT OF VETERANS AFFAIRS

PANEL '2S SECT 1'
208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER IN BLANK SPACE.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	12	0.6%	LTS-RM203,204,205,205C,212,214			6.7	1	20	6.7			20	1				SPARE			2
3	12	1.0%	LTS-RM211			5.5	1	20		5.5		20	1				SPARE			4
5	12	1.0%	LTS-RM213,215,215A			8.4	1	20			8.4	20	1				SPARE			6
7	12	0.6%	LTS-RM216,217,218,220,222			3.8	1	20	3.8			20	1				SPARE			8
9	13	1.0%	LTS-RM223,224,226,228,228B223			6.9	1	20		6.9		20	1				SPARE			10
11			SPARE				1	20			0.0	20	1				SPARE			12
13			SPARE				1	20	0.0			20	1				SPARE			14
15			SPARE				1	20		0.0		20	1				SPARE			16
17	12	0.1%	LAVS, TRAP PRIMERS SOUTH	L,TP		1.0	1	20			1.0	20	1				SPARE			18
19	12	0.6%	FAN COILS RMS 220-230	FCU		7.2	2	20	7.2			20	1				SPARE			20
21	12	0.6%	FAN COILS RMS 220-230	FCU		7.2	*	**		7.2		20	1				SPARE			22
23	12	0.8%	FAN COILS RMS 203-205,211-213	FCU		7.2	2	20			7.2	20	1				SPARE			24
25	12	0.8%	FAN COILS RMS 203-205,211-213	FCU		7.2	*	**	7.2			20	1				(E)REC-RM225, 228			26
27	12	0.7%	FAN COILS RM 205A,B,214-219,223	FCU		8.4	2	20		8.4		20	1				(E)REC-RM228			28
29	12	0.7%	FAN COILS RM 205A,B,214-219,223	FCU		8.4	*	**			8.4	20	1				(E)REC-RM226, 227, 228, 229, C21			30
31	12	0.8%	REC - CORR C26/C25	1		6.0	1	20	11.0			20	1	5.0		1	RM 205B - SHREDER	0.2%	12	32
33	12	0.8%	REC - RM 201/RM 202	1		6.0	1	20		11.0		20	1	5.0		1	RM 205B - PRINTER	0.2%	12	34
35	12	0.5%	REC - WATER FOUNTAIN	1		5.0	1	20			5.0						BLANK			36
37	12	1.2%	REC - RM 209	1		7.5	1	20	13.5			20	1	6.0		1	REC - RM 204	0.5%	12	38
39	12	0.7%	REC - RM 208	1		4.5	1	20		12.0		20	1	7.5		1	REC - RM 204	0.6%	12	40
41	12	1.5%	REC - RM206/207	1		9.0	1	20			15.0	20	1	6.0		1	REC - RM 212	0.5%	12	42
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	49	51	45						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	3.8	125%	4.7	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	8.1	100%	8.1	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	3.1	100%	3.1	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	1.7	125%	2.2	
TOTALS:	16.7	108%	18.1	MINIMUM FEEDER: 50-AMPS

PANEL '67-LP2A'
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: SURFACE

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	12	0.6%	(E)LTS-EGRESS & EXIT (SOUTH)			3.0	1	20	5.0			20	1	2.0			MEDICAL GAS ALARM PANEL			2
3	12	0.4%	(E)LTS-EGRESS & EXIT (CENTER)			2.4	1	20		12.4		20	1	10.0			AUTO Door			4
5	12	7.6%	(E)LTS-EGRESS & EXIT (NORTH)			35.0	1	20			35.0	20	1							6
7	12	2.2%	(E)LTS-EGRESS & EXIT (NORTH)			10.0	1	20	10.0			20	1							8
9	12	1.1%	ELECTRONIC DOOR			5.0	1	20		5.0		20	1							10
11							1	20			0.0	20	1							12
13							1	20	0.0			20	1							14
15							1	20		0.0		20	1							16
17							1	20			0.0	20	1							18
19							1	20	0.0			20	1							20
21							1	20		0.0		20	1							22
23							1	20			0.0	20	1							24
25							1	20	0.0			20	1							26
27							1	20		0.0		20	1							28
29							1	20			0.0	20	1							30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	15	17	35						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	6.0	125%	7.6	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	2.0	100%	2.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	8.1	119%	9.6	MINIMUM FEEDER: 27-AMPS

PANEL 'E2S'
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: SURFACE

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER IN BLANK SPACE.
2. REMOVE CONDUCTORS AT ABANDONED OR SPARE BREAKER AND USE BREAKER FOR NEW LOAD INDICATED.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	12	0.2%	OMNICELL			5.0	1	20	10.0			20	1	5.0			ELECTRONIC DOOR	0.4%	12	2
3			SPARE				1	20		0.0		20	1				SPARE			4
5			SPARE				1	20			3.0	20	1	3.0		2	REC - RM 220	0.2%	12	6
7			SPARE				1	20	3.0			20	1	3.0		2	REC - RM 217/218	0.2%	12	8
9			(E)MEDICAL GAS PANEL				1	20		3.0		20	1	3.0		2	REC - RM 215	0.3%	12	10
11			(E)REC - COMM RM 233			6.0	1	20			9.0	20	1	3.0		2	REC - RM 206/207	0.6%	12	12
13			BLANK						4.5			20	1	4.5		1	REC - RM 208/209	0.8%	12	14
15			BLANK							0.0							BLANK			16
17			BLANK								0.0						BLANK			18
19			BLANK						0.0								BLANK			20
21			BLANK							0.0							BLANK			22
23			BLANK								0.0						BLANK			24
25			MAIN BREAKER				3	100	0.0								NOT USABLE			26
27			MAIN BREAKER				*	**		0.0							NOT USABLE			28
29			MAIN BREAKER				*	**			0.0						NOT USABLE			30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	18	3	12						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	3.9	100%	3.9	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	3.9	100%	3.9	MINIMUM FEEDER: 11-AMPS

PANEL '2S SECT 2'
208Y/120-VOLT, 3-PHASE, 4-WIRE
200-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
43	12	0.2%	REC - RM 205B			6.0	1	20	9.0			20	1	3.0			REC - RM 221/RM 222	0.1%	12	44
45	12	0.2%	REC - RM 205B			6.0	1	20		27.6		30	2	21.6		1	DRYER - RM 222	0.6%	10	46
47	12	0.1%	REC - RM 223/RM 219			4.5	1	20			26.1	**	*	21.6		1	DRYER - RM 222	0.6%	10	48
49	12	0.4%	REC - RM 220	1	GFCI	6.0	1	20	16.0			20	1	10.0			WASHING MACH - RM 222	0.4%	12	50
51	12	0.4%	REC - RM 224			9.0	1	20		15.0		20	1	6.0			REC - RM 226/C24	0.3%	12	52
53	12	0.6%	REC - RM 225			10.5	1	20			15.0	20	1	4.5		1	REC - RM 213/C27	0.4%	12	54
55	12	0.8%	REC - RM 211	1		6.0	1	20	16.0			20	1	10.0		1	MICROWAVE - RM 205C	0.4%	12	56
57	12	0.8%	REC - RM 211	1		6.0	1	20		11.0		20	1	5.0		1	REFRIGERATOR - RM 205C	0.2%	12	58
59	12	0.4%	REC - RM 203/RM 229	1		4.5	1	20			9.0	20	1	4.5		1	REC - RM 205C	0.2%	12	60
61	12	0.4%	REFRIGERATOR - RM 203	1		5.0	1	20	14.0			20	1	9.0	GFCI	1	REC - RM 215	0.7%	12	62
63	12	0.4%	ICE MAKER - RM 203	1		5.0	1	20		11.0		20	1	6.0		1	REC - RM 205A	0.2%	12	64
65	12	0.2%	REC - RM 214	1		4.5	1	20			9.5	20	1	5.0		1	REC - RM 205A REFR	0.2%	12	66
67	12	0.2%	REC - RM 205	1		6.0	1	20	16.0			20	1	10.0		1	RM 205A - ACCUDOSE	0.4%	12	68
69	12	0.2%	REC - RM 205	1		6.0	1	20		15.0		20	1	9.0	GFCI	1	REC - RM 217/RM 218	0.4%	12	70
71	12	0.2%	PNEUMATIC TUBE	1		4.0	1	20			7.0	20	1	3.0		1	REC - RM 216	0.2%	12	72
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	71	80	67						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	25.4	70%	17.7	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	0.0	100%	0.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	25.4	70%	17.7	MINIMUM FEEDER: 49-AMPS

PANEL 'E3S'
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			REC-RM317			3.0	1	20	11.5			20	1	8.5			LTS -309-316	1.6%	12	2
3			REC-RM323			3.0	1	20		12.9		20	1	9.9			LTS - 317-334	1.4%	12	4
5			REC-RM326			6.0	1	20			9.0	20	1	3.0			REC-RM309			6
7			(E)REC-COMM RM334			1.5	1	20	4.5			20	1	3.0			REC-RM310			8
9			SPARE				1	20		3.0		20	1	3.0			REC-RM312			10
11			ABANDONED				1	20			3.0	20	1	3.0			REC-RM315			12
13			SPARE				1	25	3.0			20	1	3.0			REC-RM322			14
15			REC-RM304			3.0	1	20		6.0		20	1	3.0			REC-RM319			16
17			REC-RM303			3.0	1	20			3.0	20	1				SPARE			18
19			REC-RM302			3.0	1	20	8.0			20	1	5.0			ELECTRONIC DOOR	1.4%	12	20
21			SPARE				1	20		5.0		20	1	5.0			ELECTRONIC DOOR	1.0%	12	22
23			REC-RM322			3.0	1	20			3.0	20	1				SPARE			24
25			(E)MAIN BREAKER				3	100	0.0								NOT USABLE			26
27			(E)MAIN BREAKER				*	***		0.0							NOT USABLE			28
29			(E)MAIN BREAKER				*	***			0.0						NOT USABLE			30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	27	27	18						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	8.6	100%	8.6	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	8.6	100%	8.6	MINIMUM FEEDER: 24-AMPS

PANEL '67-LP3A'
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: SURFACE

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	12	2.0%	LTS-3RD FLOOR EGRESS & EXIT (SOUTH)			10.1	1	20	10.1			30	2				(E)DISASTER HORN RF5 - PENTHOUSE			2
3	12	1.3%	LTS-3RD FLOOR EGRESS & EXIT (NORTH)			7.8	1	20		7.8		**	*				(E)DISASTER HORN RF5 - PENTHOUSE			4
5	12	1.7%	LTS-3RD FLOOR EGRESS & EXIT (NORTH)			5.4	1	20			11.4	20	1	6.0			(E)LTS-PENTHOUSE EGRESS & EXIT (EAST)			6
7	12	2.6%	LTS-3RD FLOOR EGRESS & EXIT (NORTH)			8.3	1	20	14.4			20	1	6.1			(E)LTS-PENTHOUSE EGRESS & EXIT (EAST)			8
9	12	3.0%	LTS-3RD FLOOR EGRESS & EXIT (NORTH)			9.6	1	20		15.6		20	1	6.0			(E)REC-FA PAGER COMPUTER			10
11	12	2.8%	LTS-3RD FLOOR EGRESS & EXIT (SOUTH)			9.0	1	20			10.5	20	1	1.5			(E)REC-POLICE RADIO			12
13	13	1.6%	ELECTRONIC DOOR			5.0	1	20	5.0			20	1				(E)CIVIL DEFENSE ALARM			14
15			SPARE				1	20		0.0		20	1				SPARE			16
17			SPARE				1	20			0.0	20	1				SPARE			18
19			SPARE				1	20	0.0			20	1				SPARE			20
21			SPARE				1	20		0.0		20	1				SPARE			22
23			SPARE				1	20			0.0	20	1				SPARE			24
25			SPARE				1	20	0.0			20	1				SPARE			26
27			SPARE				1	20		0.0		20	1				SPARE			28
29			SPARE				1	20			0.0	20	1				SPARE			30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	30	23	22						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	9.0	100%	9.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	9.0	100%	9.0	MINIMUM FEEDER: 25-AMPS

PANEL '3N SECT 1'
208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY
MOUNTING: SURFACE

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	12	1.4%	LTS - RM345-353			8.3	1	20	18.8			20	1	10.5			REC - RM304			2
3	12	0.9%	LTS - RM337-344			5.1	1	20		15.6		20	1	10.5			REC - RM303			4
5			(E)REC-RM332, 333, 334, 335				1	20			10.5	20	1	10.5			REC - RM302			6
7			(E)LTS-RM336, 338; REC-RM338				1	20	7.5			20	1	7.5			REC - CORR C33/C34			8
9			(E)REC-RM336, 338				1	20		0.0		20	1				ABANDONED			10
11			(E)REC-RM338, 336				1	20			0.0	20	2				(E)LTS-RM334; REC-RM331A, 332, 332A, 334			12
13			(E)LTS-RM345, 347				1	20	0.0			**	*				(E)REC-RM333, 333A, 334, 334A			14
15			(E)REC-RM345, 347				1	20		0.0		20	1				(E)REC-RM335, 335A, 336			16
17			(E)REC-RM345, 347			6.0	1	20			6.0	20	1				(E)REC-RM337, 338, 338A			18
19			(E)LTS-RM302				1	20	0.0			20	1				(E)REC-RM339, ST32; FCU-127			20
21			ABANDONED				1	20		0.0		20	1				(E)REC-RM340			22
23			ABANDONED				1	20			0.0	20	1				(E)REC-RM341			24
25			(E)LTS-RM304, 305, 306				1	20	0.0			20	1				(E)REC-RM342, C32			26
27	12	0.8%	LTS - RM301,302,303,304			4.3	1	20		4.3		20	1				(E)REC-RM348			28
29			SPARE				1	20			0.0	20	1				(E)REC-RM348			30
31			(E)REC-CORR C31, RM345				1	20	0.0								BLANK			32
33			(E)REC-RM329				1	20		0.0							BLANK			34
35			BLANK								0.0						BLANK			36
37			BLANK						0.0								BLANK			38
39			BLANK							0.0							BLANK			40
41			BLANK								0.0						BLANK			42
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	26	20	17						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	1.6	125%	2.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	5.9	100%	5.9	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	7.5	105%	7.9	MINIMUM FEEDER: 22-AMPS

PANEL '3N SECT 2'
208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY
MOUNTING: SURFACE

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
43			(E)LTS-RM306B, 329, 330, C33				1	20	0.0			20	1				(E)REC-RM344, 345, C31, C32			44
45			(E)LTS-337, 342, 348, C31, C32; SD342				1	20		0.0		20	1				(E)LTS-RM336; REC-RM345, 345A, 347, C31			46
47			(E)LTS-RM339, 340; REC-RM340				1	20			0.0	20	1				(E)REC-RM348			48
49			(E)LTS-RM334, 335, 338				1	20	0.0			20	1				SPARE			50
51			(E)LTS-RM332/333/345/347				1	20		0.0							BLANK			52
53			(E)LTS-RM303				1	20			0.0						BLANK			54
55			(E)REC-PBPU 331				1	20	0.0			20	1				(E)FCU-130, FCU-125			56
57			(E)REC-PBPU 331				1	20		0.0		20	1				(E)FCU-97, FCU-126			58
59			ABANDONED				1	20			0.0	20	1				(E)FCU-114, 115, 130, 116, 117			60
61			BLANK						0.0			20	1				(E)FCU-118			62
63			BLANK							0.0		20	1				(E)FCU-119, 120, 124			64
65			BLANK								0.0	20	1				(E)FCU-121, FCU-122, FCU-123			66
67			(E)PANEL 'PH1' PENTHOUSE				3	60	0.0								BLANK			68
69			(E)PANEL 'PH1' PENTHOUSE				*	**		0.0							BLANK			70
71			(E)PANEL 'PH1' PENTHOUSE				*	**			0.0						BLANK			72
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	0	0	0						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	0.0	100%	0.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	0.0	0%	0.0	MINIMUM FEEDER: 0-AMPS

PANEL 'E3N'
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			(E)LTS-RM333; REC-RM332, 333, 334, 335;				1	20	5.5			20	1	5.5			LTS - RM301,302,303,304	1.0%	12	2
3			(E)REC-RM336, 338				1	20		5.0		20	1	5.0			LTS - RM345-353	0.5%	12	4
5			(E)REC-RM345				1	20			8.4	20	1	8.4			LTS - RM337-344	1.1%	12	6
7			(E)REC-RM347				1	20	0.0			20	1				(E)REC-PBPU 331			8
9			(E)REC-RMC32				1	20		0.0		20	1				ABANDONED			10
11			(E)LTS-RMC31; REC-CORR C31, RM334				1	20			0.0	20	1				(E)Nurse Call Power Supply 327			12
13			(E)REC-PH4 (at AHU-3), Air Handler PH4 (AHU-3 Supply RM334)				1	30	0.0			20	1				(E)REC-RM327, 328			14
15			(E)REC-PH4 (at EF-3), Fan PH4 (EF-3 Exhaust RM334)				1	20		0.0		20	1				(E)REC-RM304, 327			16
17			(E)REC-RM329				1	20			0.0	20	1				(E)Nurse Call 327			18
19			(E)PNL EPH1 MAIN, PH2-67				3	60	0.0			20	1				(E)REC-RM329			20
21			(E)PNL EPH1 MAIN, PH2-67				*	**		0.0		20	1				(E)REC-RM329			22
23			(E)PNL EPH1 MAIN, PH2-67				*	**			0.0	20	1				(E)LTS-RM331; REC-RM329, 330			24
25			(E)MAIN BREAKER				3	100	0.0			20	1				(E)REC-RM329			26
27			(E)MAIN BREAKER				*	**		0.0		20	1				(E)REC-CORR C31			28
29			(E)MAIN BREAKER				*	**			0.0	20	1				(E)REC-CORR C31			30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	6	5	8						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	2.3	100%	2.3	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	2.3	100%	2.3	MINIMUM FEEDER: 6-AMPS

THREE INCHES = ONE FOOT
ONE AND ONE HALF INCHES = ONE FOOT
ONE INCH = ONE FOOT
THREE QUARTERS INCH = ONE FOOT
ONE HALF INCH = ONE FOOT
THREE EIGHTHS INCH = ONE FOOT
ONE QUARTER INCH = ONE FOOT
ONE EIGHTH INCH = ONE FOOT

REVISIONS | DATE

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CAD FILE NAME: 531-320_E3.3.DWG
XREF FILE NAME: 531-320_30X42TLBK.DWG

DRAWING TITLE: PANEL SCHEDULES -
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: BOISE VAMC BUILDING 67 EXPANSION
BUILDING NUMBER: 67
CHECKED: AKD
DRAWN: JCG
LOCATION: VAMC BOISE, IDAHO

DATE: 07/12/2013
PROJECT NO.: 531-320
DRAWING NO.: E3.3
DWG 155 OF 191

DEPARTMENT OF VETERANS AFFAIRS

PANEL "3S SECT 1"
208Y/120-VOLT, 3-PHASE, 4-WIRE
200-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER IN BLANK SPACE.
2. REMOVE CONDUCTORS AT ABANDONED BREAKER AND USE BREAKER FOR NEW LOAD INDICATED.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	12	1.1%	LTS-RM 309/310/312/315/316			7.1	1	20	13.1			20	1	6.0			REC - CHART STATION CORR C58			2
3	12	0.2%	LTS-RM307,311,313,314,318,319			1.7	1	20		1.7		20	1				SPARE			4
5			REC-CORR C37			6.0	1	20			12.0	20	1	6.0			REC-CORR C58			6
7			REC-RM330			4.5	1	20	9.0			20	1	4.5			REC-RM325			8
9			REC-RM330 MICROWAVE			10.0	1	20		16.0		20	1	6.0			REC-RM320			10
11			REC-RM330 REFRIGERATOR			5.0	1	20			10.0	20	1	5.0			REC-RM320 REFRIG			12
13			REC-RM330 ICE MAKER				1	20	4.5			20	1	4.5			REC-RM329			14
15			REC-RM312	2		9.0	1	20		10.5		20	1	1.5			REC-RM329 REFRIGERATOR			16
17			REC-RM325			3.0	1	20			13.5	20	1	10.5			REC-RM322			18
19			SPARE				1	20	6.0			20	1	6.0			REC - CHART STATION CORR C58			20
21			REC-RM331			3.0	1	20		10.5		20	1	7.5			REC-RM326			22
23			REC-RM331 TUB			10.0	1	20			17.5	20	1	7.5			REC-RM327			24
25			REC-RM313	1		6.0	1	20	13.5			20	1	7.5			REC-RM332			26
27			REC-RM313	1		4.5	1	20		6.0		20	1	1.5			(E)REC-COMM RM333			28
29			REC-RM313	1		4.5	1	20			13.5	20	1	9.0			REC-RM315			30
31			REC-C36	1		6.0	1	20	16.0			20	1	10.0			REC-RM325 MICROWAVE			32
33			REC - COMPUTER RM 305			9.0	1	20		14.0		20	1	5.0			REC-RM325 REFRIGERATOR			34
35			REC - COMPUTER RM 305			10.5	1	20			12.0	20	1	1.5			REC - RM305			36
37			REC - NURSE STATION			6.0	1	20	16.0			20	1	10.0			REC - REFRIG RM305			38
39			REC - NURSE STATION			4.5	1	20		9.5		20	1	5.0			REC - MICROWAVE RM305			40
41			REC - NURSE STATION			10.3	1	20			14.3	20	1	4.0			REC - PNEUMATIC TUBE			42

PROJECT #11150_Bldg 67_Panels — PANEL TOTALS: 78 68 93 — 07/12/13

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING [COINCIDENTAL] LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-CONCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	28.7	100%	28.7	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	28.7	100%	28.7	MINIMUM FEEDER: 80-AMPS

PANEL "3S SECT 2"
208Y/120-VOLT, 3-PHASE, 4-WIRE
125-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER IN BLANK SPACE.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
43							1	20	10.8			20	2	10.8		FCU	FAN COILS RMS 323-336	1.2%	12	44
45	12	1.0%	LTS-RM317,320-331			10.3	1	20		21.1		**	*	10.8		FCU	FAN COILS RMS 323-336	1.2%	12	46
47	12	1.6%	LTS-RM323, 326,327,332,335,336			8.6	1	20			18.2	20	2	9.6		FCU	FAN COILS RMS 314-322	1.0%	12	48
49	12	2.1%	FAN COILS RM 302-313	FCU		13.2	2	20	22.8			**	*	9.6		FCU	FAN COILS RMS 314-322	1.0%	12	50
51	12	2.1%	FAN COILS RM 302-313	FCU		13.2	*	**		13.2		20	1				SPARE			52
53			REC-RM311	1		7.5	1	20			7.5	20	2			1	VERNACARE MACERATOR			54
55			REC-RM317/317A			10.5	1	20	10.5			**	*			1	VERNACARE MACERATOR			56
57			SPARE				1	20			2.0	20	1	2.0		LTP	LAVS, TRAP PRIMER PATIENT TOILETS	0.3%	12	58
59			REC-RM323			9.0	1	20			15.0	20	1	6.0		1	REC - NURSE STATION C57			60
61			REC-RM335			7.5	1	20	10.5			20	1	3.0		1	REC-RM316			62
63			REC-RM336				1	20		6.0		20	1	6.0		1	REC-RM316			64
65			REC-RM336				1	20			0.0	20	1				SPARE			66
67			REC - DRINKING FOUNTAIN C35	1		1.5	1	20	6.0			20	1	4.5		1	REC-RM318/314			68
69			REC - WAITING ROOM 307	1		7.5	1	20		10.5		20	1	3.0		1	REC-RM310			70
71			REC - CHART STATION C56	1		6.0	1	20			12.0	20	1	6.0		1	REC-RM309			72

PROJECT #11150_Bldg 67_Panels — PANEL TOTALS: 61 53 53 — 07/12/13

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING [COINCIDENTAL] LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-CONCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	16.1	100%	16.1	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	2.7	125%	3.4	
TOTALS:	18.9	104%	19.6	MINIMUM FEEDER: 54-AMPS

PANEL "PPH"
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			(E)PUMP - PH2				2	20	0.0			20	1				(E)STS/REC - PH2			2
3			(E)PUMP - PH2				*	**		0.0		20	1				(E)REC - PH1			4
5			(E)REC-CHILLER CH-1				1	20			0.0	20	1				(E)REC			6
7			(E)EXHAUST FAN	EF-23			1	20	0.0			60	2				(E)BLLDER			8
9			BLANK							0.0		**	*				(E)BLLDER			10
11			BLANK								0.0						BLANK - NEEDS COVER			12
13			BLANK						0.0								BLANK			14
15			(E)MAIN BREAKER				3	100		0.0							NOT USABLE			16
17			(E)MAIN BREAKER				*	**			0.0						NOT USABLE			18
19			(E)MAIN BREAKER				*	**	0.0								NOT USABLE			20

PROJECT #11150_Bldg 67_Panels — PANEL TOTALS: 0 0 0 — 07/12/13

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING [COINCIDENTAL] LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-CONCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	0.0	100%	0.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	0.0	0%	0.0	MINIMUM FEEDER: 0-AMPS

PANEL "PPR"
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: SURFACE

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			EXHAUST FAN	EF-2		4.6	3	20	9.2			20	1	4.6		AHU-12	AIR HANDLER UNIT			2
3			EXHAUST FAN	EF-2		4.6	*	**		9.2		**	*	4.6		AHU-12	AIR HANDLER UNIT			4
5			EXHAUST FAN	EF-2		4.6	*	**			9.2	**	*	4.6		AHU-12	AIR HANDLER UNIT			6
7			EXHAUST FAN	EF-3		4.6	3	20	9.2			20	1	4.6		AHU-14	AIR HANDLER UNIT			8
9			EXHAUST FAN	EF-3		4.6	*	**		9.2		**	*	4.6		AHU-14	AIR HANDLER UNIT			10
11			EXHAUST FAN	EF-3		4.6	*	**			9.2	**	*	4.6		AHU-14	AIR HANDLER UNIT			12
13			EXHAUST FAN	EF-29		4.6	3	20	4.6			20	1				SPARE			14
15			EXHAUST FAN	EF-29		4.6	*	**		4.6		20	1				SPARE			16
17			EXHAUST FAN	EF-29		4.6	*	**			4.6	20	1				SPARE			18
19			EXHAUST FAN	EF-30		4.6	3	20	4.6			20	1				SPARE			20
21			EXHAUST FAN	EF-30		4.6	*	**		4.6		20	1				SPARE			22
23			EXHAUST FAN	EF-30		4.6	*	**			4.6	20	1				SPARE			24
25			EXHAUST FAN	EF-32		1.0	1	20	1.0			20	1				SPARE			26
27			SPARE				1	20		0.0		20	1				SPARE			28
29			SPARE				1	20			0.0	20	1				SPARE			30
31			SPARE				1	20	0.0			20	1				SPARE			32
33			SPARE				1	20		0.0		20	1				SPARE			34
35			SPARE				1	20			0.0	20	1				SPARE			36
37			SPARE				1	20	0.0			20	1				SPARE			38
39			SPARE				1	20		0.0		20	1				SPARE			40
41			SPARE				1	20			0.0	20	1				SPARE			42

PROJECT #11150_Bldg 67_Panels — PANEL TOTALS: 29 28 28 — 07/12/13

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING [COINCIDENTAL] LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-CONCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	8.4	100%	8.4	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	1.7	125%	2.1	
TOTALS:	10.1	104%	10.5	MINIMUM FEEDER: 29-AMPS

PANEL "PPS1"
480Y/277-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY
MOUNTING: SURFACE

NOTES: COMMERCIAL BOLT-ON BREAKER PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1	12	0.1%	HOT WATER HEATING PUMP	HWS-1	HACR	7.6	3	20	7.6			20	1				SPARE			2
3	12	0.1%	HOT WATER HEATING PUMP	HWS-1	HACR	7.6	*	**		7.6		20	1				SPARE			4
5	12	0.1%	HOT WATER HEATING PUMP	HWS-1	HACR	7.6	*	**			7.6	20	1				SPARE			6
7	12	0.1%	HOT WATER HEATING PUMP	HWS-2	HACR	7.6	3	20	7.6			20	1				SPARE			8
9	12	0.1%	HOT WATER HEATING PUMP	HWS-2	HACR	7.6	*	**		7.6		20	1				SPARE			10
11	12	0.1%	HOT WATER HEATING PUMP	HWS-2	HACR	7.6	*	**			7.6	20	1				SPARE			12
13			SPARE				1	20	0.0			20	1				SPARE			14
15			SPARE				1	20		0.0		20	1				SPARE			16
17			SPARE				1	20			0.0	20	1				SPARE			18
19			SPARE				1	20	0.0			20	1				SPARE			20
21			SPARE				1	20		0.0		20	1				SPARE			22
23			SPARE				1	20			0.0	20	1				SPARE			24
25			SPARE				1	20	0.0			20	1				SPARE			26
27			SPARE				1	20		0.0		20	1				SPARE			28
29			SPARE				1	20			0.0	20	1				SPARE			30
31			SPARE				1	20	0.0			20	1				SPARE			32
33			SPARE				1	20		0.0		20	1				SPARE			34
35			SPARE				1	20			0.0	20	1				SPARE			36
37			SPARE				1	20	0.0			20	1				SPARE			38
39			SPARE				1	20		0.0		20	1				SPARE			40
41			SPARE				1	20			0.0	20	1				SPARE			42

PROJECT #11150_Bldg 67_Panels — PANEL TOTALS: 15 15 15 — 07/12/13

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING [COINCIDENTAL] LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-CONCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	6.3	100%	6.3	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	6.3	125%	7.9	
TOTALS:	12.6	113%	14.2	MINIMUM FEEDER: 17-AMPS

PANEL "PPH"
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	PHASE AMPS B	PHASE AMPS C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			(E)CONTROLS - PH2	EF-6			1	20	0.0			20	1				(E)CONTROLS - PH2			2
3			(E)PUMPS - PH2				1	20		0.0		20	1				(E)REC - PH2			4
5			(E)DIGASTER HORN				2	30			0.0	20	1				SPARE			6
7			(E)DIGASTER HORN				*	**	0.0			20	1				SPARE			8
9			NOT USABLE							0.0			3				(E)COMPRESSOR - PH2			10
11			NOT USABLE								0.0	**	*				(E)COMPRESSOR - PH2			12
13			NOT USABLE						0.0			**	*				(E)COMPRESSOR - PH2			14
15			(E)RECEPTACLES				1	20		0.0							BLANK			16
17			(E)RECEPTACLES				1	20			0.0						BLANK			18
19			BLANK						0.0								BLANK			20
21			BLANK							0.0							BLANK			22
23			BLANK								0.0						BLANK			24
25			NOT USABLE						0.0			100	3				(E)MAIN BREAKER			26
27			NOT USABLE							0.0		**	*				(E)MAIN BREAKER			28
29			NOT USABLE								0.0	**	*				(E)MAIN BREAKER			30

PROJECT #11150_Bldg 67_Panels — PANEL TOTALS: 0 0 0 — 07/12/13

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING [COINCIDENTAL] LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-CONCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	0.0	100%	0.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	0.0	0%	0.0	MINIMUM FEEDER: 0-AMPS

REVISIONS	DATE

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STAMP
PROFESSIONAL ENGINEER 9201 STATE OF IDAHO AMY K. DOCKTER 1-2-13

CAD FILE NAME: 531-320_E3.3.DWG
XREF FILE NAME: 531-320_30X42TLBK.DWG

DRAWING TITLE: PANEL SCHEDULES –
PROJECT TITLE: BOISE VAMC BUILDING 67 EXPANSION
DATE: 07/12/2013
PROJECT NO.: 531-320
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR
BUILDING NUMBER: 67
CHECKED: AKD
DRAWN: JCG
LOCATION: VAMC BOISE, IDAHO
DRAWING NO.: E3.4
DWG 156 OF 191
DEPARTMENT OF VETERANS AFFAIRS

ONE EIGHTH INCH = ONE FOOT 0 4 8 16
ONE QUARTER INCH = ONE FOOT 0 4 8
THREE EIGHTHS INCH = ONE FOOT 0 4
ONE HALF INCH = ONE FOOT 0 4
THREE QUARTERS INCH = ONE FOOT 6" 0 2
ONE INCH = ONE FOOT 6" 0 2
ONE AND ONE HALF INCHES = ONE FOOT 6" 0 1
THREE INCHES = ONE FOOT 6"

PANEL '2N SECT 1 OPTION'
208Y/120-VOLT, 3-PHASE, 4-WIRE
200-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER IN BLANK SPACE.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	B	C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			(E)LTS-RM231, 243, C21, C22, C23			2.1	1	20	2.1			20	1				(E)REC-RM202			2
3			(E)LTS-RM236A, 236B, 241				1	20		0.0		20	1				(E)REC-RM203			4
5			(E)LTS-RM236,236C,237-240,C27				1	20			0.0	20	1				(E)REC-201A&B, 204-206, C24; FCU-101			6
7			LTS-RM250, 251,252			7.0	1	20	13.0			20	1	6.0		1	REC - RM 254			8
9			LTS -230,231,232,233,234,235			9.0	1	20		14.0		20	1	5.0		1	REC - REFRIG RM 254			10
11			(E)LTS-RM230-235				1	20			0.0	20	1				(E)REC-RM244, C22			12
13			(E)RM201-FCU-74, FCU-75				1	20	0.0			20	1				(E)REC-RM247, C22			14
15			(E)LTS-RM230, 232;Doors C22/C23				1	20		0.0		20	1				(E)REC-RM236			16
17			(E)REC-240, 241, C27, HVAC Control Panel 241 (DDC)				1	20			9.0	20	1	9.0			REC - RM 253			18
19			(E)Heated Ceiling 246 (30/2)				2	30	9.0			20	1	9.0			REC - REFRIGERATOR RM 252			20
21			(E)Heated Ceiling 246 (30/2)				*	**		0.0		20	1				(E)REC-RM236			22
23			(E)REC-RM236C;236C; Slave Monitor 236C				1	20			12.0	20	1	12.0			REC-RM236			24
25			(E)REC-236A, 236B, 236C ; Slave Monitor 236A				1	20	0.0			20	1				(E)REC-RM237 ICE MACHINE			26
27			(E)REC-RM236A, 236B; View Box 236A				1	20		0.0		20	1				(E)REC-RM237 REFRIGERATOR			28
29			(E)REC-RM236B				1	20			0.0	20	1				(E)REC-237, 238, 239, 237			30
31			(E)REC-RM236B				1	20	0.0			30	2				(E)Heated Ceiling 245 (30/2)			32
33			(E)REC-RM236B, 236C				1	20		0.0		**	*				(E)Heated Ceiling 245 (30/2)			34
35			(E)REC-C23, C27				1	20			0.0	20	1				(E)REC-RM204			36
37			(E)REC-RMC27				1	20	0.0			20	1				(E)REC-RM204			38
39			(E)REC-RM237, 242				1	20		0.0		20	1				(E)REC-RM204			40
41	12	1.8%	REC - RM 237	1		10.5	1	20			16.5	20	1	6.0		1	REC - RM 231	0.6%	12	42
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	24	14	38						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	2.2	125%	2.7	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	5.5	100%	5.5	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	1.4	100%	1.4	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	9.1	106%	9.6	MINIMUM FEEDER: 27-AMPS

PANEL '2S SECT 1 OPTION'
208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER IN BLANK SPACE.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	B	C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			LTS-RM203,204,205,205C,212,214			11.9	1	20	11.9			20	1				SPARE			2
3			LTS-RM211,213,215,215A			12.3	1	20		12.3		20	1				SPARE			4
5			LTS-RM216,217,218,220,221			6.7	1	20			6.7	20	1				SPARE			6
7			LTS-RM223,224,226,228,228B222			8.5	1	20	8.5			20	1				SPARE			8
9			SPARE				1	20		0.0		20	1				SPARE			10
11			SPARE				1	20			0.0	20	1				SPARE			12
13			SPARE				1	20	0.0			20	1				SPARE			14
15			SPARE				1	20		0.0		20	1				SPARE			16
17	12	0.1%	LAVS, TRAP PRIMERS SOUTH	L,TP		1.0	1	20			1.0	20	1				SPARE			18
19	12	0.6%	FAN COILS RMS 220-230	FCU		7.2	2	20	7.2			20	1				SPARE			20
21	12	0.6%	FAN COILS RMS 220-230	FCU		7.2	*	**		7.2		20	1				SPARE			22
23	12	0.8%	FAN COILS RMS 203-205,211-213	FCU		7.2	2	20			7.2	20	1				SPARE			24
25	12	0.8%	FAN COILS RMS 203-205,211-213	FCU		7.2	*	**	10.2			20	1	3.0			REC-RM234	0.4%	12	26
27	12	0.7%	FAN COILS RM 205A,B,214-219,223	FCU		8.4	2	20		15.9		20	1	7.5			REC-RM234	1.1%	12	28
29	12	0.7%	FAN COILS RM 205A,B,214-219,223	FCU		8.4	*	**			14.4	20	1	6.0			REC-RM234	0.9%	12	30
31	12	0.8%	REC - CORR C26/C25	1		6.0	1	20	11.0			20	1	5.0		1	RM 205B - SHREDER	0.2%	12	32
33	12	0.8%	REC - RM 201/RM 202	1		6.0	1	20		11.0		20	1	5.0		1	RM 205B - PRINTER	0.2%	12	34
35	12	0.5%	REC - WATER FOUNTAIN	1		5.0	1	20			5.0						BLANK			36
37	12	1.2%	REC - RM 209	1		7.5	1	20	13.5			20	1	6.0		1	REC - RM 204	0.5%	12	38
39	12	0.7%	REC - RM 208	1		4.5	1	20		12.0		20	1	7.5		1	REC - RM 204	0.6%	12	40
41	12	1.5%	REC - RM206/207	1		9.0	1	20			15.0	20	1	6.0		1	REC - RM 212	0.5%	12	42
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	62	58	49						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	4.7	125%	5.9	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	10.1	100%	10.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	3.1	100%	3.1	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	1.7	125%	2.2	
TOTALS:	19.7	108%	21.3	MINIMUM FEEDER: 59-AMPS

PANEL '3N SECT 1 OPTION'
208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY
MOUNTING: SURFACE

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	B	C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			(E)LTS - RM345-353			6.8	1	20	17.3			20	1	10.5			REC - RM304			2
3			(E)LTS - RM337-344			10.2	1	20		20.7		20	1	10.5			REC - RM303			4
5			VERNACARE				2	20			10.5	20	1	10.5			REC - RM302			6
7			VERNACARE				*	**	7.5			20	1	7.5			REC - CORR C33/C34			8
9			REC-RM342			6.0	1	20		6.0		20	1				ABANDONED			10
11			REC-RM346			10.5	1	20			16.5	20	1	6.0			REC-CHART STATION C31			12
13			(E)LTS-RM345, 347				1	20	10.5			20	1	10.5			REC-RM340			14
15			REC-RM347			6.0	1	20		7.5		20	1	1.5			REC-RM341			16
17			REC-RM347			6.0	1	20			12.0	20	1	6.0			REC-NURSE STATION			18
19			(E)LTS-RM302				1	20	7.5			20	1	7.5			REC-RM345			20
21			ABANDONED				1	20		10.5		20	1	10.5			REC-RM344			22
23			ABANDONED				1	20			0.0	20	1				SPARE			24
25			(E)LTS-RM304, 305, 306				1	20	6.0			20	1	6.0			REC-CORR C32			26
27			(E)LTS - RM301,302,303,304			6.8	1	20		6.8		20	1				SPARE			28
29			(E)LTS - C34, 305 306			7.7	1	20			7.7	20	1				SPARE			30
31			REC-CORR C31			4.5	1	20	5.5			20	1	1.0		L,TP	LAVS, TRAP PRIMER PATIENT TOILETS	0.1%	12	32
33			REC-RM337			10.5	1	20		17.7		20	2	7.2		FCU	FAN COILS RMS 342-348	0.9%	12	34
35	12	0.8%	FAN COILS RM 349-353,337-340	FCU		7.2	2	20			14.4	**	*	7.2		FCU	FAN COILS RMS 342-348	0.9%	12	36
37	12	0.8%	FAN COILS RM 349-353,337-340	FCU		7.2	*	**	7.2			20	1				REC-RM348 ICE MACHINE			38
39			REC-RM349	1		4.5	1	20		4.5		20	1				REC-RM348 MICROWAVE			40
41			REC-RM348	1		3.0	1	20			3.0	20	1				REC-RM348 REFRIG			42
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	62	74	64						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	22.0	100%	22.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	1.5	125%	1.9	
TOTALS:	23.5	102%	23.8	MINIMUM FEEDER: 66-AMPS

PANEL '2N SECT 2 OPTION'
208Y/120-VOLT, 3-PHASE, 4-WIRE
200-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	B	C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
43			SPARE				1	20	0.0			20	1				SPARE			44
45			(E)REC-RM234, 235				1	20		0.0		20	1				SPARE			46
47	12	1.1%	FAN COILS RMS 231-237,252,253	FCU		8.4	2	20			12.9	20	1	4.5			REC-RM252	0.8%	12	48
49	12	1.1%	FAN COILS RMS 231-237,252,253	FCU		8.4	*	**	12.9			20	1	4.5			REC-RM252	0.8%	12	50
51			(E)REC-RM236B				1	20		0.0		20	1				(E)REC-RM243			52
53			SPARE				1	20			0.0	20	1				(E)REC-RM243			54
55			SPARE				1	20	13.0			20	1	13.0			LTS- SKY BOXES			56
57			(E)REC-RM234, FCU-94				1	20		8.0		20	1	8.0			LTS SKY BOX, 201, 202			58
59			(E)Auto Door C23/C27				1	20			0.0	20	1				SPARE			60
61			(E)RM241 AHU-4; RM241 EF-4				2	30	0.0			20	2				(E)Fan Coil C23 (FCU-1)			62
63			(E)RM241 AHU-4; RM241 EF-4				*	**		0.0		**	*				(E)Fan Coil C23 (FCU-1)			64
65			(E)RM241 AHU-4; RM241 EF-4				*	**			0.0						BLANK			66
67			SPARE				3	30	1.0			20	1	1.0		L,TP	LAVS, TRAP PRIMER RM 206-209	0.1%	12	68
69			SPARE				*	**		7.2		20	2	7.2		FCU	FAN COILS RMS 202,206-209	0.9%	12	70
71			SPARE				*	**			7.2	**	*	7.2		FCU	FAN COILS RMS 202,206-209	0.9%	12	72
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	27	15	20						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	5.2	100%	5.2	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	1.7	125%	2.2	
TOTALS:	7.0	106%	7.4	MINIMUM FEEDER: 21-AMPS

PANEL '2S SECT 2 OPTION'
208Y/120-VOLT, 3-PHASE, 4-WIRE
200-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	B	C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
43	12	0.2%	REC - RM 205B			6.0	1	20	9.0			20	1	3.0			REC - RM 221/RM 222	0.1%	12	44
45	12	0.2%	REC - RM 205B			6.0	1	20		27.6		30	2	21.6		1	DRYER - RM 222	0.6%	10	46
47	12	0.1%	REC - RM 223/RM 219			4.5	1	20			26.1	**	*	21.6		1	DRYER - RM 222	0.6%	10	48
49	12	0.4%	REC - RM 220	1	GFCI	6.0	1	20	16.0			20	1	10.0		1	WASHING MACH - RM 222	0.4%	12	50
51	12	0.4%	REC - RM 224			9.0	1	20		15.0		20	1	6.0			REC - RM 226/C24	0.3%	12	52
53	12	0.6%	REC - RM 225			10.5	1	20			15.0	20	1	4.5		1	REC - RM 213/C27	0.4%	12	54
55	12	0.8%	REC - RM 211	1		6.0	1	20	16.0			20	1	10.0		1	MICROWAVE - RM 205C	0.4%	12	56
57	12	0.8%	REC - RM 211	1		6.0	1	20		11.0		20	1	5.0		1	REFRIGERATOR - RM 205C	0.2%	12	58
59	12	0.4%	REC - RM 203/RM 229	1		4.5	1	20			9.0	20	1	4.5		1	REC - RM 205C	0.2%	12	60
61	12	0.4%	REFRIGERATOR - RM 203	1		5.0	1	20	14.0			20	1	9.0	GFCI	1	REC - RM 215	0.7%	12	62
63	12	0.4%	ICE MAKER - RM 203	1		5.0	1	20		11.0		20	1	6.0		1	REC - RM 205A	0.2%	12	64
65	12	0.2%	REC - RM 214	1		4.5	1	20			9.5	20	1	5.0		1	REC - RM 205A REFR	0.2%	12	66
67	12	0.2%	REC - RM 205	1		6.0	1	20	16.0			20	1	10.0		1	RM 205A - ACCUDOSE	0.4%	12	68
69	12	0.2%	REC - RM 205	1		6.0	1	20		15.0		20	1	9.0	GFCI	1	REC - RM 217/RM 218	0.4%	12	70
71	12	0.2%	PNEUMATIC TUBE	1		4.0	1	20			7.0	20	1	3.0		1	REC - RM 216	0.2%	12	72
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	71	80	67						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	25.4	100%	25.4	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	25.4	100%	25.4	MINIMUM FEEDER: 70-AMPS

PANEL '3N SECT 2 OPTION'
208Y/120-VOLT, 3-PHASE, 4-WIRE
225-AMP, MAIN LUGS ONLY
MOUNTING: SURFACE

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	B	C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
43			(E)LTS-RM306B, 329, 330, C33				1	20	0.0			20	1				SPARE			44
45			(E)LTS-RM337, 342, 348, C31, C32; SD 342				1	20		0.0		20	1				SPARE			46
47			SPARE				1	20			0.0	20	1				SPARE			48
49			(E)LTS-RM334, 335, 338				1	20	9.0			20	1	9.0			REC-RM352			50
51			(E)LTS-RM332/333/345/347				1	20		6.0		20	1	6.0		1	REC-CHART STATION C31			52
53			(E)LTS-RM303				1	20			4.5	20	1	4.5		1	REC-RM353			54
55			SPARE				1	20	0.0			20	1				(E)FCU-130, FCU-125			56
57			SPARE				1	20		0.0		20	1				(E)FCU-97, FCU-126			58
59			ABANDONED				1	20			0.0	20	1				(E)FCU-114, 115, 130, 116, 117			60
61			REC-RM338	1		9.0	1	20	9.0			20	1				(E)FCU-118			62
63			REC-RM339	1		9.0	1	20		9.0		20	1				(E)FCU-119, FCU-120, FCU-124			64
65			BLANK								0.0	20	1				(E)FCU-121, FCU-122, FCU-123			66
67			(E)PANEL 'PH1' PENTHOUSE				3	60	0.0								BLANK			68
69			(E)PANEL 'PH1' PENTHOUSE				*	**		0.0							BLANK			70
71			(E)PANEL 'PH1' PENTHOUSE				*	**			0.0						BLANK			72
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	18	15	5						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	4.5	100%	4.5	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	4.5	100%	4.5	MINIMUM FEEDER: 12-AMPS

PANEL 'E2N OPTION'
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER IN BLANK SPACE.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	B	C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			LTS - C21,C22,C23			2.1	1	20	2.1			20	1				(E)REC-RM233			2
3			SPARE				1	20		2.1		20	1	2.1			(E)LTS-C22, C23, Exit C23			4
5			SPARE				1	20			0.0	20	1				(E)LTS-RM201, 201A, 201B			6
7			LTS - RM206-210			7.0	1	20	7.0			20	1				SPARE			8
9			(E)REC-RM236, C27				1	20		0.0		20	1				(E)NLTS-RM230, 232, 233, 245, 246			10
11			SPARE				1	20			0.0	20	1				(E)LTS-RM230, 232			12
13			(E)REC-RM236C				1	20	0.0			20	1				SPARE			14
15			(E)REC-RM236				1	20		0.0							BLANK			16
17			(E)REC-RM236				1	20			0.0						BLANK			18
19			(E)REC-RM236A				1	20	0.0								BLANK			20
21			BLANK							0.0							BLANK			22
23			REC - COMM RM 231	1		7.5	1	20			7.5						BLANK			24
25			(E)MAIN BREAKER				1	20	0.0								Not Usable			26
27			(E)MAIN BREAKER				1	20		0.0							Not Usable			28
29			(E)MAIN BREAKER				1	20			0.0						Not Usable			30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	9	2	8						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	2.2	100%	2.2	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	2.2	100%	2.2	MINIMUM FEEDER: 6-AMPS

PANEL 'E2S OPTION'
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: SURFACE

NOTES: EXISTING PANELBOARD
1. FURNISH AND INSTALL NEW BREAKER IN BLANK SPACE.
2. REMOVE CONDUCTORS AT ABANDONED OR SPARE BREAKER AND USE BREAKER FOR NEW LOAD INDICATED.

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	B	C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			SPARE				1	20	0.0			20	1				(E)NIGHT LTS			2
3			SPARE				1	20		1.3		20	1	1.3			LTS - EMERGENCY C21			4
5			SPARE				1	20			3.0	20	1	3.0		2	REC - RM 220	0.2%	12	6
7			SPARE				1	20	3.0			20	1	3.0		2	REC - RM 217/218	0.2%	12	8
9			(E)MEDICAL GAS PANEL				1	20		3.0		20	1	3.0		2	REC - RM 215	0.3%	12	10
11	12	0.9%	(E)REC-RM233			7.5	1	20			10.5	20	1	3.0		2	REC - RM 206/207	0.6%	12	12
13			BLANK						4.5			20	1	4.5		1	REC - RM 208/209	0.8%	12	14
15			BLANK							0.0							BLANK			16
17			BLANK								0.0						BLANK			18
19			BLANK						0.0								BLANK			20
21			BLANK							0.0							BLANK			22
23			BLANK								0.0						BLANK			24
25			(E)MAIN BREAKER				3	100	0.0								NOT USABLE			26
27			(E)MAIN BREAKER				*	**		0.0							NOT USABLE			28
29			(E)MAIN BREAKER				*	**			0.0						NOT USABLE			30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	8	4	14						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	3.0	100%	3.0	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	3.0	100%	3.0	MINIMUM FEEDER: 8-AMPS

PANEL 'E3N OPTION'
208Y/120-VOLT, 3-PHASE, 4-WIRE
100-AMP, MAIN LUGS ONLY
MOUNTING: FLUSH

NOTES: EXISTING PANELBOARD

CKT NO	WIRE SIZE	VOLT DROP	LOAD DESCRIPTION	REF NO	BRKR TYPE	LOAD AMPS	BREAKER P	BREAKER AMP	PHASE AMPS A	B	C	BREAKER AMP	BREAKER P	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	VOLT DROP	WIRE SIZE	CKT NO
1			REC-RM346/345			6.0	1	20	10.7			20	1	4.7			LTS - RM301,302,303,304			2
3			REC-RM344			3.0	1	20		7.8		20	1	4.8			LTS - RM345-353			4
5			REC-RM352			3.0	1	20			9.9	20	1	6.9			LTS - RM337-344			6
7			SPARE				1	20	5.0			20	1	5.0			OMNICELL-RM351			8
9			(E)REC-RMC32				1	20		0.0		20	1				ABANDONED			10
11			(E)LTS-RMC31; REC-CORR C31, RM334				1	20			0.0	20	1				(E)Nurse Call Power Supply 327			12
13			(E)REC-PH4 (at AHU-3), Air Handler PH4 (AHU-3 Supply RM334)				1	30	0.0			20	1				(E)REC-RM327, 328			14
15			(E)REC-PH4 (at EF-3), Fan PH4 (EF-3 Exhaust RM334)				1	20		0.0		20	1				(E)REC-RM304, 327			16
17			REC-RM337			3.0	1	20			3.0	20	1				(E)Nurse Call 327			18
19			(E)PNL EPH1 MAIN, PH2-67				3	60	6.0			20	1	6.0			REC-RM338/339			20
21			(E)PNL EPH1 MAIN, PH2-67				*	**		3.0		20	1	3.0			REC-RM340			22
23			(E)PNL EPH1 MAIN, PH2-67				*	**			5.0	20	1	5.0			OMNICELL-RM342			24
25			(E)MAIN BREAKER				3	100	5.0			20	1	5.0			OMNICELL-RM342			26
27			(E)MAIN BREAKER				*	**		0.0		20	1				(E)REC-CORR C31			28
29			(E)MAIN BREAKER				*	**			0.0	20	1				SPARE			30
			PROJECT #11150_Bldg 67_Panels					PANEL TOTALS:	27	11	18						07/12/13			

	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA	
LIGHTING AND OTHER CONTINUOUS LOAD:	0.0	125%	0.0	Excludes track and show window lighting.
TRACK LIGHTING:	0.0	N/A	0.0	Length of Track: 0 ft
SHOW WINDOWS:	0.0	N/A	0.0	Length of show window: 0 ft
RECEPTACLE LOAD:	0.0	100%	0.0	100% of the first 10 kVA, plus 50% over 10 kVA.
KITCHEN EQUIPMENT LOAD:	0.0	100%	0.0	Based on 0 pieces of equipment.
HEATING (COINCIDENTAL) LOAD:	0.0	100%	0.0	Includes space heat in excess of cooling and other electric heat.
HEATING OR OTHER NON-COINCIDENTAL LOAD:	0.0	0%	0.0	Smaller of heat or cooling when loads do not operate simultaneously.
MOTORS AND OTHER NON-CONTINUOUS OR MISCELLANEOUS LOAD:	6.6	100%	6.6	All other loads excluding maximum motor load.
LARGEST MOTOR LOAD:	0.0	125%	0.0	
TOTALS:	6.6	100%	6.6	MINIMUM FEEDER: 18-AMPS

REVISIONS | DATE

CSHQA

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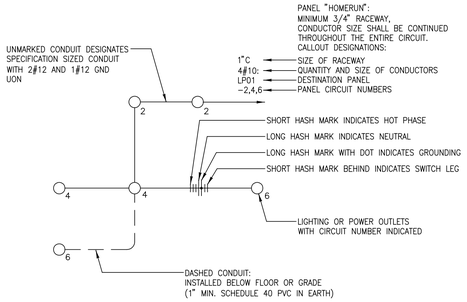
CAD FILE NAME: 531-320_E3.3.DWG
XREF FILE NAME: 531-320_30X42TLBK.DWG

DRAWING TITLE: PANEL SCHEDULES - BID OPTION
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: BOISE VAMC BUILDING 67 EXPANSION
BUILDING NUMBER: 67 | CHECKED: AKD | DRAWN: JCG
LOCATION: VAMC BOISE, IDAHO

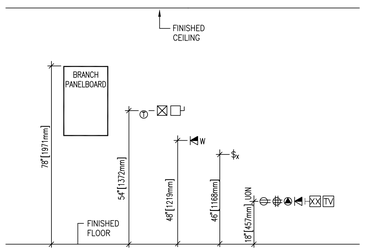
DATE: 07/12/2013
PROJECT NO. 531-320
DRAWING NO. E3.5
DWG 157 OF 191

DEPARTMENT OF VETERANS AFFAIRS



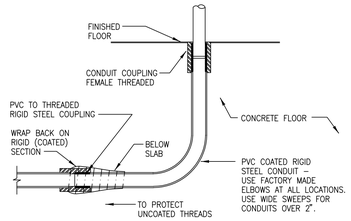
NOTES:
1. ALL HOMERUNS ARE TO BE 3/4" CONDUIT MINIMUM.
2. ALL CONDUCTORS SHALL BE #12 UNLESS OTHERWISE NOTED.
3. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR SIZED PER NEC.

1 CIRCUITING SYMBOLS
NTS

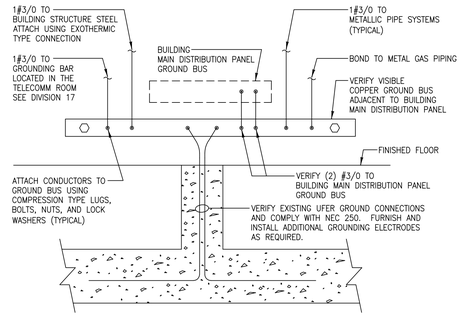


NOTES:
1. VERIFY ALL MOUNTING HEIGHTS WITH CABO/ANSI A117.1, U.F.A.S. REQUIREMENTS AND ALL OTHER APPLICABLE CODES.
2. COORDINATE MOUNTING HEIGHTS WITH ALL ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN. INFORM ARCHITECT OF ANY CONFLICTS.

2 STANDARD MOUNTING HEIGHTS
NTS

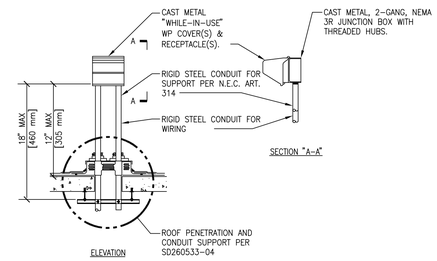


3 BELOW GRADE CONDUIT
NTS



NOTES:
1. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE IN ACCORDANCE WITH NEC 250.
2. VERIFY EXISTING BONDING JUMPER AT SERVICE ENTRANCE EQUIPMENT PDS-33 AND MAKE CONNECTION PER NEC. FEEDER TO BUILDING 33, FROM SERVICE EQUIPMENT SHALL CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR. COMPLY WITH NEC 250.32(B) FOR SEPARATE STRUCTURES. SEE SINGLE-LINE FOR REQUIREMENTS.

4 GROUNDING DETAIL
NTS



5 RECEPTACLE ROOF MOUNTING DETAIL
NTS

REVISIONS	DATE

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CAD FILE NAME: 531-320_E4.1.DWG
XREF FILE NAME: 531-320_30X42TLBK.DWG

DRAWING TITLE: ELECTRICAL DETAILS
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: BOISE VAMC BUILDING 67 EXPANSION
BUILDING NUMBER: 67
CHECKED: AKD
DRAWN: CRP
LOCATION: VAMC BOISE, IDAHO

DATE: 07/12/2013
PROJECT NO.: 531-320
DRAWING NO.: E4.1
DWG 158 OF 191

DEPARTMENT OF VETERANS AFFAIRS