GENERAL NOTES:
1. NEW PIPING AND EQUIPMENT IS DRAWN WITH A HEAVY LINE AND EXISTING ITEMS ARE DRAWN WITH A LIGHT LINE.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH INTERNATIONAL CODES AND UCB CONSTRUCTION STANDARDS.
3. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BID, AND SHALL VERIFY PIPE SIZES, DIMENSIONS, VOLTAGES, ETC., PRIOR TO CONSTRUCTION.
4. INSTALL NEW PIPING AND EQUIPMENT TO BE ACCESSIBLE FOR SERVICE AND MAINTENANCE WITHOUT OBSTRUCTING EXISTING DEVICES NEEDING SERVICE AND MAINTENANCE.
5. CONTRACTOR SHALL ENSURE THAT NEW PIPING AND EQUIPMENT WILL NOT OBSTRUCT THE SPRAY PATTERN OF ANY FIRE SPRINKLERS.
6. CONTRACTOR SHALL PROTECT FIRE SPRINKLERS IN THE CONSTRUCTION AREA AGAINST MECHANICAL DAMAGE.
7. CONTRACTOR SHALL OBTAIN A HOT WORK PERMIT FOR ANY WORK INVOLVING HEAT GUNS, SOLDERING, BRAZING, WELDING, GRINDING, POWDER DRIVEN STUD, METAL CUTTING USING POWER TOOLS OR OTHER ACTIVITIES INVOLVING FLAMES OR SPARKS. HOT WORK PERMIT FORMS ARE AVAILABLE FROM CU PROJECT MANAGERS, FM OFFICE OF PLANNING, DESIGN AND CONSTRUCTION AND UNDER "HOT WORK PERMIT" AT THE FLS WEB SITE: HTTP://WWW.COLORADO.EDU/FACILITIESMANAGEMENT/SAFETY/INDEX.HTML.
8. AT ALL TIMES, CONTRACTOR SHALL ENSURE THAT THE PROJECT AND STAGING AREA AND CONSTRUCTION ACTIVITIES DO NOT CAUSE OBSTRUCTION TO EGRESS PATHS INSIDE THE BUILDING, BLOCK EXIT DISCHARGE FROM THE BUILDING OR INHIBIT EMERGENCY VEHICLE ACCESS TO THE AREA.
9. IF THE CONSTRUCTION ACTIVITIES GENERATE DUST OF FUMES INSIDE THE BUILDING, CONTRACTOR SHALL TAKE NECESSARY MEASURES TO PREVENT NUISANCE ACTIVATION OF ANY NEARBY SMOKE OR DUCT DETECTORS. CONTACT THE FIRE SYSTEMS GROUP FOR ASSISTANCE IN ADVANCE OF THESE ACTIVITIES.
11. CONTRACTOR SHALL MAKE SURE THAT NEW WORK SHALL NOT BLOCK ACCESS TO ANY OF THE EXISTING INFORMATION TECHNOLOGY OUTLETS OR PATHWAYS INCLUDING BUT NOT LIMITED TO CABLE TRAYS, PULL BOXES, BUTTERS, WIRE MOLD, ETC.
LIGHTING CIRCUIT DESIGNATION AND PLAN NOTE REFERENCE NUMBER

SYMBOLS DESCRIPTION

EMERGENCY BATTERY LIGHT
FIXTURE CONNECTED TO EMERGENCY POWER

DASHED LINES INDICATE EXISTING FIXTURES, DEVICES, OR EQUIPMENT

LIGHTING AND APPLIANCE PANELBOARD
INDICATES EMERGENCY LIFE SAFETY POWER; “E” INDICATES EMERGENCY EQUIPMENT POWER)

MAGNETIC STARTER
DISCONNECT (“F” INDICATES FUSED WHEN SHOWN)
CONNECTED TO EMERGENCY POWER

SURFACE FLUORESCENT
SUSPENDED FIXTURE
WALL EXIT SIGN
FACE, ARROWS INSTALLED AS SHOWN

SEE SCHEDULE FOR WIRING AND CONTROL REQUIREMENTS)

WALL JUNCTION BOX
CONTROL CABINET BY DIVISION 23
SWITCH: SINGLE POLE (HORSEPOWER RATED WHEN USED AS MOTOR DISCONNECT)
COMBINATION STARTER−DISCONNECT
TIME SWITCH
SPECIAL PURPOSE RECEPTACLE LETTER INDICATES TYPE, SEE SPECIFICATION
DOUBLE DUPLEX RECEPTACLE
MULTI−OUTLET ASSEMBLY − M.O.A., PROVIDE DEVICES AS SHOWN ON PLANS

NOTE IDENTIFICATION

FIRE PUMP
FIRE ALARM CONTROL PANEL
FIRE ALARM ANNUNCIATOR
FLOW SWITCH
TAMPER SWITCH (NUMBER INDICATES NUMBER OF DEVICES AT THIS LOCATION)
DUCT PHOTOELECTRIC DETECTOR
SPEAKER HORN (“S” INDICATES WITH STROBE LIGHT)
COMBINATION FIRE/SMOKE DAMPER OR SMOKE DAMPER BY DIVISION 23
DOUBLE POLE
FIXED TEMPERATURE DETECTOR
STROBE LIGHT
OTHERWISE NOTED)
OTHER SWITCH TYPES)

KEY OPERATED
4−WAY
3−WAY

ELECTRICAL SYMBOLS LEGEND

AC
WP
#10
L1−2,4,6
VFD
BELL
INTERCOM OUTLET
CLOCK
TELEVISION OUTLET
STAFF REGISTER
TELEMETRY ANTENNA
NURSE LOCATOR
EMERGENCY PUSH BUTTON
CARD READER
DOOR POSITION SWITCH, SURFACE MOUNT
DOOR POSITION SWITCH, RECESSED
DOOR POSITION SWITCH

MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND

WATER FLOW MEASURING DEVICE
GLOBE VALVE
GATE VALVE
BALL VALVE
CAPPED PIPE
CHILLED WATER RETURN
HIGH PRESSURE CONDENSATE
MEDIUM PRESSURE CONDENSATE
LOOP FIELD SUPPLY
HIGH PRESSURE STEAM
MEDIUM PRESSURE STEAM
CHILLED WATER SUPPLY
HOT WATER RETURN
HOT WATER SUPPLY

GENERAL CONTRACTOR
ELECTRICAL CONTRACTOR EC
MECHANICAL CONTRACTOR MC
PROPYLENE GLYCOL MIXTURE PG
TYPICAL SHUTOFF VALVE. VALVE MAY BE BALL, BUTTERFLY,
REDUCER, ECCENTRIC FS
REDUCER, CONCENTRIC P
AIR VENT
THERMOMETER
CHECK VALVE, ARROW IN DIRECTION OF FLOW
BALL VALVE INDICATOR
FLEXIBLE PIPE CONNECTION
SOLENOID VALVE

BID SET
10.01461
2 of 19
### Mechanical/Plumbing Metering Information Matrix

<table>
<thead>
<tr>
<th>Meter System</th>
<th>Manufacturer</th>
<th>Model No.</th>
<th>Pressure (Psi)</th>
<th>Size (Inches)</th>
<th>Capacity (GPM)</th>
<th>Installation</th>
<th>Old Meter Feature</th>
<th>New Meter Feature</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>HPS</td>
<td></td>
<td>80</td>
<td>8</td>
<td>3</td>
<td>2,000</td>
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<tr>
<td>HPS</td>
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<td>60</td>
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<td>3</td>
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<tr>
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<td>5</td>
<td>3</td>
<td>1,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sheet Notes:**

1. NEW HIGH PRESSURE STEAM METER. WIRE TO NEW KEP PANEL.
2. REPLACE DOMESTIC WATER METER. WIRE TO NEW KEP PANEL.
3. NEW CHILLED WATER METER AND CONTROLLER. WIRE TO NEW KEP PANEL.
4. NEW KEP PANEL.
5. EXISTING ANDOVER CONTROL PANELS.

**General Notes:**

1. FOR DRAWING CLARITY NOT ALL PIPING AND EQUIPMENT HAS NOT BEEN SHOWN.
2. FIELD VERIFY EXISTING CONDITIONS BEFORE COMMENCEMENT OF WORK OR ORDERING MATERIALS.
SMART GRID
METERING 2011
University of Colorado at Boulder
Boulder, Colorado

Sheet Notes:
1. For drawing clarity not all piping and equipment has not been shown.
2. Field verify existing conditions before commencement of work or ordering materials.

General Notes:
1. For drawing clarity not all piping and equipment has not been shown.
2. Field verify existing conditions before commencement of work or ordering materials.

Key Plan:
BID SET

MCD BUILDING

MCD FOURTH LEVEL BASEMENT NEW
E0011
STE0010
D0050
D0046
D0044
D0040B
D0040A
D0065
D0047
D0065A
D0043
D0055
D0054
CRD0060
E0018G
E0018H
CRD0040
D0041
D0041
2
4
5
3
6
8

### Sheet Notes:
1. New gravity condensate meter.
2. Wire to new KEP panel.
3. New domestic water meter. Wire to new KEP panel.
4. Replace and re-install chilled water meter. Wire to new KEP panel.
5. New KEP panel.
6. Existing Andover control panels.
7. Insulate 10ft HPS.

### General Notes:
1. For drawing clarity not all piping and equipment has not been shown.
2. Field verify existing conditions before commencement of work or ordering materials.

### Mechanical/Plumbing Metering Information Matrix
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Manufacturer</th>
<th>Size</th>
<th>Pressure Size (inches)</th>
<th>NPT Size (inches)</th>
<th>Nominal Size (inches)</th>
<th>Quantity</th>
<th>Equipment Notes</th>
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<tr>
<td>34-3000</td>
<td>General</td>
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<td>1</td>
<td>1</td>
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<tr>
<td>8-3000</td>
<td>General</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- IMIG Music Building
- IMIG Music Basement - Area A
- IMIG Music Basement - Area B

**Smart Grid Metering 2011**
University of Colorado at Boulder
Boulder, Colorado

**Web:** www.ulteig.com
9777 Pyramid Court #200
Englewood, Colorado 80112

**Phone:** 720.873.5700    **Fax:** 720.873.5701

**SMART GRID**
METERING 2011
University of Colorado at Boulder
Boulder, Colorado

**Design**

**Checked By:**

**Approved By:**

**Date:** 07/08/2011
**Revision:** M5.0

**Sheet Number:** 7

**Notes:**

1. Verify conditions.
2. All work to be performed in accordance with the requirements of this drawing.
3. Verify conditions before work starts.
4. Field verify existing conditions before work starts.
5. Insulate 10ft HPS.
SMART GRID
METERING 2011
University of Colorado at Boulder
Boulder, Colorado

BID SET

PORTER SECOND BASEMENT LEVEL - AREA 'A'

GENERAL NOTES:
1. FOR DRAWING CLARITY NOT ALL PIPING AND EQUIPMENT HAS NOT BEEN SHOWN.
2. FIELD VERIFY EXISTING CONDITIONS BEFORE COMMENCEMENT OF WORK OR ORDERING MATERIALS.

SHEET NOTES:
1. REPLACE STEAM METER. WIRE TO NEW KEP PANEL.
2. REPLACE DOMESTIC WATER METER. WIRE TO NEW KEP PANEL. PROVIDE PLUG WITH CHAIN FOR EXISTING BALL VALVE.
3. REMOVE AND PLUG CHILLED WATER SENSOR AND CONTROLLER.
4. EXISTING ANDOVER CONTROL PANELS.
5. NEW CHILLED WATER METER SENSOR AT LOCATION SHOWN.

MECHANICAL/PLUMBING METERING INFORMATION MATRIX

<table>
<thead>
<tr>
<th>METER SYSTEM</th>
<th>MANUFACTURER</th>
<th>MODEL NO.</th>
<th>INCHES</th>
<th>INCHES</th>
<th>DIA DRAIN (INCHES)</th>
<th>DIA DRAIN (MILLIMETERS)</th>
<th>DIA STEM (INCHES)</th>
<th>DIA STEM (MILLIMETERS)</th>
<th>DIA SHIP (INCHES)</th>
<th>DIA SHIP (MILLIMETERS)</th>
<th>DIA LOAD (INCHES)</th>
<th>DIA LOAD (MILLIMETERS)</th>
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<tbody>
<tr>
<td>OUTDOOR</td>
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<td>10180-16</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>76.2</td>
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<tr>
<td>INDOOR</td>
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<td>10181-3</td>
<td>15</td>
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</tbody>
</table>

PORTER BUILDING

0'

TUNNEL SPACER

1'

PORTER SECOND BASEMENT LEVEL - AREA 'B'

HPS

CWS

CWR
EXISTING METER #71A − LANDIS & GYR. REMOVE EXISTING METER AND REPLACE WITH NEW POWERLOGIC ION 8600 METER WITH MODBUS COMMUNICATION. PROVIDE TWO GENERAL CABLE # E2042S CABLES CONTINUOUS FROM THE METER TO THE KEP PANEL.

GENERAL NOTES:
A. PRIOR TO REPLACING THE EXISTING METER(S), PROVIDE THE UNIVERSITY WITH A FINAL METER READING AND DATE OF READING. ALSO PROVIDE THE UNIVERSITY WITH A FINAL HEM READING AND DATE OF READING.
B. PROVIDE ACCESS TO EXISTING METER AND EXISTING PANEL HEM.
C. COORDINATE ALL WORK AND THE ROUTING OF ALL CONDUIT SO AS NOT TO BLOCK ACCESS TO ANY ACCESS DOORS/PANELS.
EXISTING METER #71 - POWER MEASUREMENT 8400, AND METER #72 - POWER MEASUREMENT 8400. EXISTING METERS HAVE A MODBUS. PROVIDE SOFTWARE AND PROGRAMMING FOR THE METERS TO ALLOW MODBUS COMMUNICATION CAPABILITY.

EXISTING PANELBOARD RB-1. UTILIZE SPARE 20 A BREAKER IN SPACE 6 TO FEED NEW KEP PANEL. ROUTE CONDUIT APPROXIMATELY AS SHOWN TO MINIMIZE ASBESTOS CONCERNS. COORDINATE EXACT CONDUIT ROUTING WITH EH&S.

NEW KEP PANEL. PROVIDE POWER CONNECTION AND MODBUS COMMUNICATION CONNECTIONS TO THE PANEL. MODBUS COMMUNICATIONS. ROUTE CONDUIT APPROXIMATELY AS SHOWN TO MINIMIZE ASBESTOS CONCERNS. COORDINATE EXACT CONDUIT ROUTING WITH EH&S.

EXISTING ANDOVER CONTROL PANEL.

EXISTING METER #73 - LANDIS & GYR. REMOVE EXISTING METER AND REPLACE WITH NEW POWERLOGIC ION 8600 METER WITH MODBUS COMMUNICATION CAPABILITY AND PROGRAM METER.

NEW WATER METER. PROVIDE TWO GENERAL CABLE # E2042S CABLES CONTINUOUS FROM THE METER TO THE KEP PANEL.

NEW STEAM METER. PROVIDE A GENERAL CABLE # E2042S CABLE CONTINUOUS FROM THE METER TO THE KEP PANEL.

NEW CHILLED WATER METER. PROVIDE TWO GENERAL CABLE # E2042S CABLES CONTINUOUS FROM THE METER TO THE KEP PANEL.

GENERAL NOTES:
A. PRIOR TO REPLACING THE EXISTING METER(S), PROVIDE THE UNIVERSITY WITH A FINAL METER READING AND DATE OF READING. ALSO PROVIDE THE UNIVERSITY AN INITIAL METER READING AND DATE OF READING FOR ALL NEW METER(S).

B. VERIFY THE LOCATION OF THE EXISTING IT LINES AND WORK AROUND THESE LINES SO AS NOT TO DISTURB, IMPACT OR BLOCK ACCESS TO THESE IT LINES OR DEVICES.

C. COORDINATE ALL WORK AND THE ROUTING OF ALL CONDUIT SO AS NOT TO BLOCK ACCESS TO ANY ACCESS DOORS/PANELS.

SMART GRID SCHEMATIC

KEY PLAN

BID SET
EXISTING METER #58 − LANDIS & GYR, AND METER #59 LANDIS & GYR. REMOVE EXISTING METERS AND REPLACE WITH NEW POWERLOGIC ION 8600 METERS WITH MODBUS COMMUNICATION CAPABILITY AND PROGRAM METERS.

EXISTING PANELBOARD LSB1. PROVIDE A NEW 20 A BREAKER IN SPACE 20 TO FEED NEW KEP PANEL. ROUTE CONDUIT APPROXIMATELY AS SHOWN TO MINIMIZE ASBESTOS CONCERNS. COORDINATE EXACT CONDUIT ROUTING WITH EH&S.

NEW KEP PANEL. PROVIDE POWER CONNECTION AND MODBUS COMMUNICATION CONNECTIONS TO THE PANEL. MODBUS COMMUNICATIONS. ROUTE CONDUIT APPROXIMATELY AS SHOWN TO MINIMIZE ASBESTOS CONCERNS. COORDINATE EXACT CONDUIT ROUTING WITH EH&S.

EXISTING ANDOVER CONTROL PANEL.

NEW WATER METER. PROVIDE TWO GENERAL CABLE # E2042S CABLES CONTINUOUS FROM THE METER TO THE KEP PANEL. NEW STEAM METER. PROVIDE A GENERAL CABLE # E2042S CABLE CONTINUOUS FROM THE METER TO THE KEP PANEL. NEW CHILLED WATER METER. PROVIDE TWO GENERAL CABLE # E2042S CABLES CONTINUOUS FROM THE METER TO THE KEP PANEL.

GENERAL NOTES:
A. PRIOR TO REPLACING THE EXISTING METER(S), PROVIDE THE UNIVERSITY WITH A FINAL METER READING AND DATE OF READING. ALSO PROVIDE THE UNIVERSITY AN INITIAL METER READING AND DATE OF READING FOR ALL NEW METER(S).

B. VERIFY THE LOCATION OF THE EXISTING IT LINES AND WORK AROUND THESE LINES SO AS NOT TO DISTURB, IMPACT OR BLOCK ACCESS TO THESE IT LINES OR DEVICES.

C. COORDINATE ALL WORK AND THE ROUTING OF ALL CONDUIT SO AS NOT TO BLOCK ACCESS TO ANY ACCESS DOORS/PANELS.
EXISTING METER #64 − LANDIS & GYR, AND METER #65 − LANDIS & GYR. REMOVE EXISTING METER AND REPLACE WITH NEW POWERLOGIC ION 8600 METER WITH MODBUS COMMUNICATION CAPABILITY AND PROGRAM METER.

EXISTING PANELBOARD LPOA. PROVIDE A NEW 20 A BREAKER IN SPACE 18 TO FEED NEW KEP PANEL. ROUTE CONDUIT APPROXIMATELY AS SHOWN TO MINIMIZE ASBESTOS CONCERNS. COORDINATE EXACT CONDUIT ROUTING WITH EH&S.

NEW KEP PANEL. PROVIDE POWER CONNECTION AND MODBUS COMMUNICATION CONNECTIONS TO THE PANEL.

NEW WATER METER. PROVIDE TWO GENERAL CABLE # E2042S CABLES CONTINUOUS FROM THE METER TO THE KEP PANEL.

NEW STEAM METER. PROVIDE A GENERAL CABLE # E2042S CABLE CONTINUOUS FROM THE METER TO THE KEP PANEL.

NEW CHILLED WATER METER. PROVIDE TWO GENERAL CABLE # E2042S CABLES CONTINUOUS FROM THE METER TO THE KEP PANEL.

GENERAL NOTES:

A. PRIOR TO REPLACING THE EXISTING METER(S), PROVIDE THE UNIVERSITY WITH A FINAL METER READING AND DATE OF READING. ALSO PROVIDE THE UNIVERSITY AN INITIAL METER READING AND DATE OF READING FOR ALL NEW METER(S).

B. VERIFY THE LOCATION OF THE EXISTING IT LINES AND WORK AROUND THESE LINES SO AS NOT TO DISTURB, IMPACT OR BLOCK ACCESS TO THESE IT LINES OR DEVICES.

C. COORDINATE ALL WORK AND THE ROUTING OF ALL CONDUIT SO AS NOT TO BLOCK ACCESS TO ANY ACCESS DOORS/PANELS.
EXISTING METER #62 − POWER MEASUREMENTS 8600. EXISTING METER HAS A MODBUS. PROVIDE SOFTWARE AND PROGRAMMING FOR THE METER TO ALLOW MODBUS COMMUNICATION CAPABILITY.

EXISTING PANELBOARD 1PBB. PROVIDE A NEW 20 A BREAKER IN SPACE 18 TO FEED NEW KEP PANEL. ROUTE CONDUIT APPROXIMATELY AS SHOWN TO MINIMIZE ASBESTOS CONCERNS. COORDINATE EXACT CONDUIT ROUTING WITH EH&S.

NEW KEP PANEL. PROVIDE POWER CONNECTION AND MODBUS COMMUNICATION CONNECTIONS TO THE PANEL. MODBUS COMMUNICATIONS. ROUTE CONDUIT APPROXIMATELY AS SHOWN TO MINIMIZE ASBESTOS CONCERNS. COORDINATE EXACT CONDUIT ROUTING WITH EH&S.

EXISTING ANDOVER CONTROL PANEL.

EXISTING SIEMENS METER TO REMAIN AS IS.

EXISTING METER #61 − LANDIS & GYR. REMOVE EXISTING METER AND REPLACE WITH NEW POWERLOGIC ION 8600 METER WITH MODBUS COMMUNICATION CAPABILITY AND PROGRAM Meters.

NEW WATER METER. PROVIDE TWO GENERAL CABLE # E2042S CABLES CONTINUOUS FROM THE METER TO THE KEP PANEL.

NEW STEAM METER. PROVIDE A GENERAL CABLE # E2042S CABLE CONTINUOUS FROM THE METER TO THE KEP PANEL.

NEW CHILLED WATER METER. PROVIDE TWO GENERAL CABLE # E2042S CABLES CONTINUOUS FROM THE METER TO THE KEP PANEL.

GENERAL NOTES:

A. PRIOR TO REPLACING THE EXISTING METER(S), PROVIDE THE UNIVERSITY WITH A FINAL METER READING AND DATE OF READING. ALSO PROVIDE THE UNIVERSITY AN INITIAL METER READING AND DATE OF READING FOR ALL NEW METER(S).

B. VERIFY THE LOCATION OF THE EXISTING IT LINES AND WORK AROUND THESE LINES SO AS NOT TO DISTURB, IMPACT OR BLOCK ACCESS TO THESE IT LINES OR DEVICES.

C. COORDINATE ALL WORK AND THE ROUTING OF ALL CONDUIT SO AS NOT TO BLOCK ACCESS TO ANY ACCESS DOORS/PANELS.
## Current Transformer Size Table

Size the current transformers according to the following transformer sizes:

<table>
<thead>
<tr>
<th>Transformer Size</th>
<th>Transformer Secondary Voltage</th>
<th>CT Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 KVA</td>
<td>277/480</td>
<td>500:5</td>
</tr>
<tr>
<td>750 KVA</td>
<td>277/480</td>
<td>400:5</td>
</tr>
<tr>
<td>500 KVA</td>
<td>277/480</td>
<td>300:5</td>
</tr>
<tr>
<td>300 KVA</td>
<td>277/480</td>
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<td>100:5</td>
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<tr>
<td>150 KVA</td>
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</tr>
</tbody>
</table>
ELECTRICAL DETAILS

Date: Revision: By:

Project Number: 10.01461
Date: 07/08/2011
Sheets:

Drawn By:

Checked By:

Approved By:

N:\Projects\2010\10.01461\Drawing\ELEC\10.01461 E7.2.dwg−E7.2−7/7/2011 12:07 PM

SMART GRID
METERING 2011
University of Colorado at Boulder
Boulder, Colorado

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Phone:  720.873.5700    Fax:  720.873.5701
Englewood, Colorado 80112

ELECTRICAL DETAILS

FLOW METERING COMPUTER

KEY PLAN

BID SET