

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that UNIVERSITY OF MAINE

Located At 96 FALMOUTH ST

Job ID: 2012-05-3904-HVAC

CBL: 114A-A-001-001

has permission to Replace existing air handler system with new Trane system, energy upgrades at Luther Bonney Hall provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer



Code Enforcement Officer / Plan Reviewer

5/29/12

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No: 2012-05-3904-HVAC	Date Applied: 5/3/2012	CBL: 114A- A-001-001	
Location of Construction: 85 BEDFORD ST (96 FALMOUTH ST)	Owner Name: UNIVERISTY OF MAINE	Owner Address: 107 MAINE AVE BANGOR, ME 04401	Phone:
Business Name:	Contractor Name: JCN Construction	Contractor Address: 155 Dow St., Manchester NH 03101	Phone: (603) 624-7080
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC - HVAC	Zone: R-5/USM overlay
Past Use: USM – Luther Bonney Building	Proposed Use: Same – Luther Bonney Building – energy upgrade – replace existing Trane Air Handlers – floor & penthouse	Cost of Work: 400000.00	CEO District:
		Fire Dept: 5/29/12 <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A Signature: <i>Bjornbaf</i> (52)	Inspection: Use Group: B Type: HVAC Date: 5/29/12 Signature: <i>ASU</i>
Proposed Project Description: Complete replacement of HVAC; Luther Bonney Build		Pedestrian Activities District (P.A.D.)	
Permit Taken By:	Zoning Approval		

<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>___ Maj ___ Min ___ MM</p> <p>Date: <i>OK 5/14/12</i> <i>ASU</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>ASU</i></p>
	CERTIFICATION		

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the appication is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT ADDRESS DATE PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Close In Elec/Bldg prior to covering

Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



PORTLAND MAINE

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Acting Director of Planning and Urban Development
Gregory Mitchell

Job ID: 2012-05-3904-HVAC

Located At: 96 FALMOUTH ST

CBL: 114A- A-001-001

Conditions of Approval:

Fire

1. Installation shall comply with City Code Chapter 10.
2. Installation shall comply with NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*; NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*; NFPA 70, *National Electrical Code*, and the manufacturer's published instructions.

Zoning

1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
2. Equipment shall be installed in compliance with the manufacturer's specifications and the UL listing.
3. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM E 814 or UL 1479, per IBC 2009 Section 713.

Building

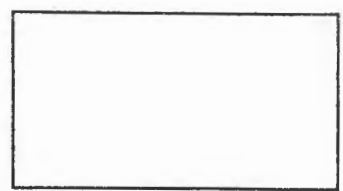
1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
2. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM E 814 or UL 1479, per IBC 2009 Section 713.
3. Equipment shall be installed in compliance with the manufacturer's specifications and the UL listing.

P-5 USM *work*



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



Entered 5/3/12 (B)

2012-05-3904-HVAC

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL Luther Bonney Building (96 Falmouth) 114AA-001
85 Bedford Street Use of Building School Date May 1, 2012

Name and address of owner of appliance University of Southern Maine
25 Bedford Street, Portland ME 04104

Installer's name and address JCN Construction Co., Inc., 155 Dow Street Suite 301,
Manchester, NH 03101 Telephone 603.624.7080

Location of appliance:
 Basement
 Attic
 Floor
 Roof/Penthouse

Type of Fuel:
 Gas
 Oil
 Solid
 Steam

Appliance Name: Trane Air Handlers (replace existing)
U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:
 Master Plumber # MS90008333
 Solid Fuel # N/A
 Oil # N/A
 Gas # N/A
 Other N/A

Type of Chimney:
 Masonry Lined
Factory built N/A

Metal
Factory Built U.L. Listing # N/A

Direct Vent
Type N/A UL# _____

Type of Fuel Tank
 Oil
 Gas

Size of Tank N/A
Dept. of Building Inspections
City of Portland Maine

Number of Tanks N/A

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 400,000.00

Permit Fee: \$ 4,020.00

RECEIVED
MAY 03 2012

Approved

Approved with Conditions

Fire: _____
Ele.: _____
Bldg.: _____

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer *Michael Wolosko*

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy



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Receipts Details:

Tender Information: Check , Check Number: 74051
Tender Amount: 4020.00

Receipt Header:

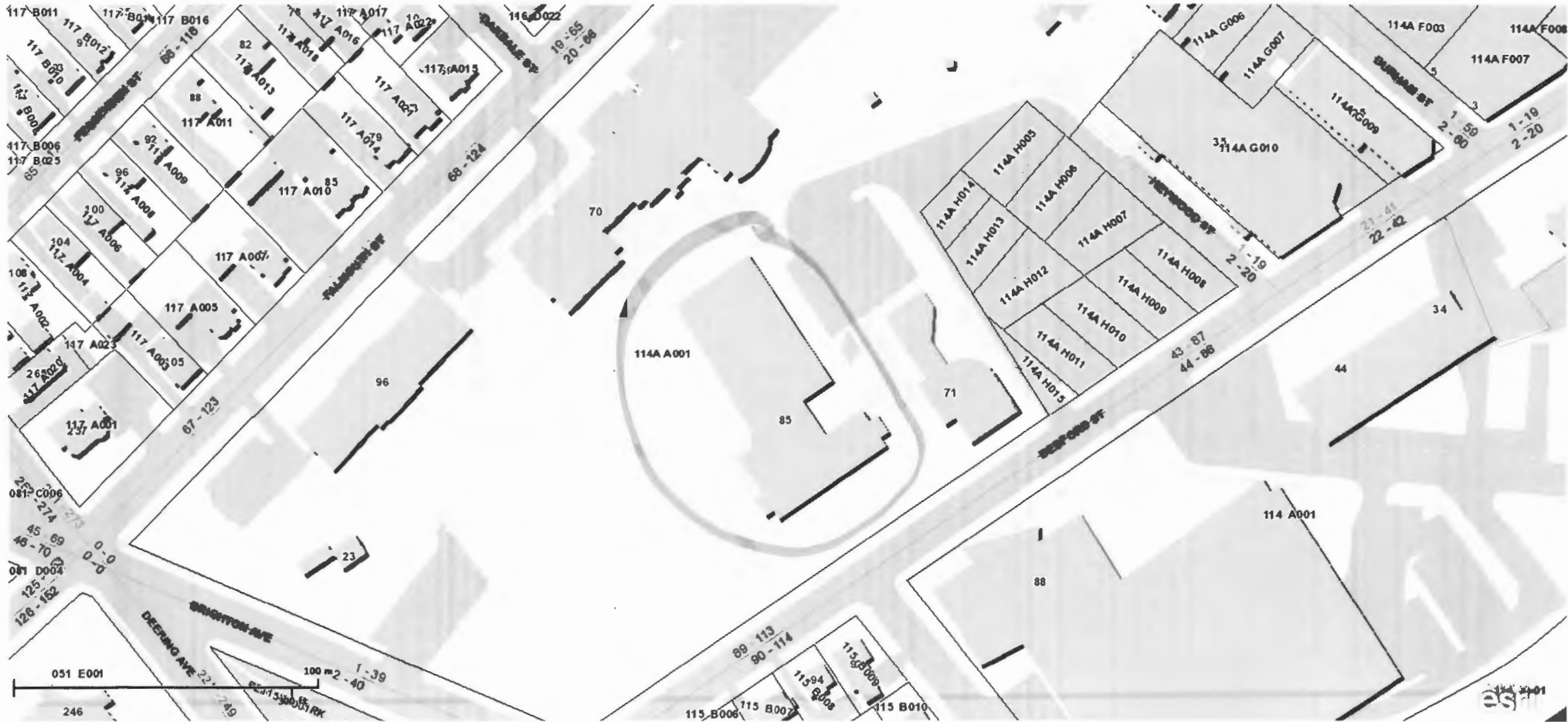
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Receipt Date: 5/3/2012
Receipt Number: 43529

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Transaction Amount:	4020.00	Charge Amount:	4020.00
Job ID: Job ID: 2012-05-3904-HVAC - Complete replacement of HVAC; Luther Bonney Build			
Additional Comments: 96 Falmouth (85 Bedford)			

Thank You for your Payment!

85 Bedford St - Luther Bonney Building



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Colby Company, LLC

47A York Street
Portland, ME 04101
(207) 553-7753 Office

Structural Engineering
Mechanical Engineering
Electrical Engineering
Civil Engineering

RECEIVED
MAY 03 2012
Dept. of Building Inspections
City of Portland Maine

LUTHER BONNEY ENERGY UPGRADES ADDENDUM #1 MARCH 15, 2012

DRAWINGS

1. The drawings M-102, M-502, M-503, and M-601 have changes relating to the air handling units. Re-read with care.

CONSTRUCTION PHASING

2. See Addendum #1 Appendix A.

STRUCTURAL

3. The structural drawings show new W6 x 20 support steel for the new condensing units. What is the requirement for the finish on these steel beams: prime painted, prime and two coats of finish, or hot dipped galvanized?
 - Shop prime painted and touch up paint for field welds.

MECHANICAL

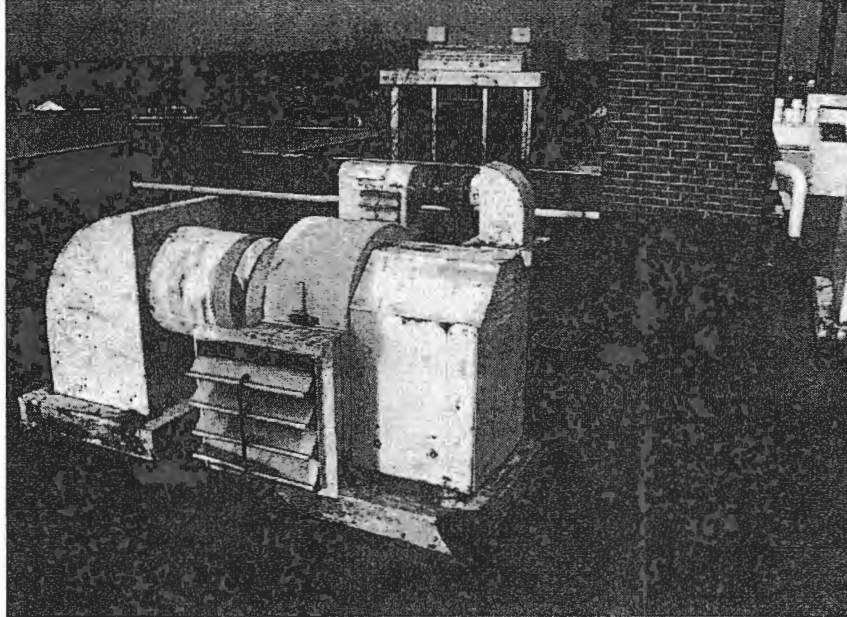
4. Drawing M-104 has a note to perform roof work in accordance with the existing warranty, as related to the new exhaust fans. Please provide the name of the roof manufacturer so we can properly select the correct roofing details.
 - The Lower Roof is EPDM manufactured by Carlisle
 - The Upper Roof is EPDM manufactured by Firestone
5. Drawings M-100, M-102, and M-103 have a Note which says "Replace all steam traps in kind". Please clarify how we are to determine the quantities/scope of work for this item.
 - Addendum #1 Appendix B has original building drawings with steam traps highlighted. These steam traps will need to be replaced in addition to the steam traps associated with equipment already to be replaced (AHUs, etc.)
6. It is unclear how to determine the scope of duct cleaning and how it relates to the alternate.: Exhaust duct cleaning: Alternate #1 scope is the 1st and 2nd floor, Alternate #2 scope is the 3rd floor, Alternate #3 is the 4th and 5th floors. It would make sense to do all of the connected exhaust duct at one time, so maybe have all of the exhaust duct cleaned under Alternate #1?
 - We are no longer going to clean the exhaust ducts in the tower. The drawings have been changed to reflect.Supply & Return Duct Cleaning: Scope should be for Base Bid existing S/R duct connected to AHU-1 and AHU-2 and Alternate #4 should be existing S/R duct connected to AHU-3?
 - Yes
7. Is the space in the ceiling considered conditioned or unconditioned space?
 - Unconditioned
8. In the Specification Section 230700 3.13, there is no exposed duct insulation types listed
 - See updated Specification, exposed duct insulation types have been added
9. In the Specification Section 230700 3.15C, the insulation is listed as cellular glass, should this be flexible elastomeric?
 - Yes. See the updated Specification, the type of insulation has been changed.

Colby Company, LLC

47A York Street
Portland, ME 04101
(207) 553-7753 Office

Structural Engineering
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10. In the Specification Section 230700 3.15C, insulation is listed for Refrigerant Suction and Hot-Gas Piping, should this be Suction piping only?
 - Yes. See the updated Specification; Hot-Gas Piping has been removed.
11. There is no Specification section provided for the Air Cooled Condensing Units. Will one be provide?
 - Yes. See the updated Specification with the addition of Sections 236313 and 232300.
12. Picture of the Classroom Tower roof to estimate exhaust fan curbs.





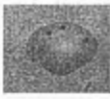



13. Will all the unit ventilators fit in the elevators?
 - No. The Trane VUVE-125 is 93" long without end covers. The elevators are only 7 feet tall. There are 3 VUVE-125 models – in Rooms 326, 410, and 524.
 - The Trane VUVE-100 is 81" long without end covers, leaving only 3 inches to spare in the elevator.
 - The Trane VUVE-075 is 69" long without end covers and should easily fit in the elevator.
14. Will new smoke detectors and remote test stations be required for AHU-1, 2, and 3? How many for each?
 - Provide one duct smoke detector with remote test for each AHU located downstream of the supply fan per M-601 Note 5 on the AHU schedule.
15. Please provide clarification on the energy recovery loop piping system. There is no specification that defines the material to be used for the GS/GR piping.
 - Please provide soldered joint, Type L copper tube.
16. The one-line diagram on M-503 does not provide any means to flush or fill the piping loops. Should there be a chemical bypass feeder? Shouldn't there be requirements for chemically cleaning those loops?
 - Install a ½" Watts 009 backflow preventer with ¾" hose connection on an accessible portion of each of the two energy recovery loops for filling. Use the low point drain per M-503 Note 2 for flushing and draining.

17. Is a chemical pot feeder required? Also please confirm what the energy recovery fluid type is.
- A chemical pot feeder is not incorporated in this design. The energy recovery fluid is a 30% solution of ethylene glycol for its lower viscosity (pumping energy) and lower freezing point.

ELECTRICAL

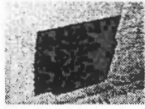
18. On the Electrical Demolition drawings the note "Disconnect and remove all associated electrical equipment, conduit, and wiring for unit ventilator." Is it the intent to remove all conduit and wire to the source or can the home run be salvaged for future connection to new equipment?
- Conduit home runs from the basement to the applicable floor can be salvaged if possible. All existing conductors to be removed and replaced with new.
19. During the walkthrough 3/12/2012 we observed existing conditions first and second floor ceilings. These ceilings will all be removed and replaced. In the Computer Lab and other areas we observed many ceiling mounted CCTV cameras, emergency lights, and fire alarm devices that all will need to be removed and reinstalled to accommodate the ceiling replacement. None of these devices are shown on the drawings. An accurate estimate requires a quantity for each of these items. Please provide quantities.

-  11
-  22
-  11
-  1
-  2
-  1
-
-

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47A York Street
Portland, ME 04101
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20. E-001 Motor Circuit Schedule, OCP Device. Please indicate with Panel or Switchboard breakers indicated in the Motor Circuit Schedule are existing and which will need to be provided new.

- The following equipment can reuse existing circuit breakers. All remaining equipment circuits require new circuit breakers.
 - i. RF-1
 - ii. RF-2
 - iii. EF-4
 - iv. Unit Ventilator in Room 208.

MISCELLANEOUS

21. Will the owner be paying for the building permit fee directly?

- If a building permit is required, then the contractor would be responsible to obtain. The owner does not believe a building permit will be required. Sub-contractors would have to carry any permits needed for their disciplines.



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Receipts Details:

Tender Information: Check , Check Number: 74049
Tender Amount: 188.60

Receipt Header:

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Receipt Date: 5/3/2012
Receipt Number: 43536

Receipt Details:

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Receipt Number:	0	Payment Date:	
Transaction Amount:	133.60	Charge Amount:	133.60
Job ID: Job ID: 2012-05-3904-HVAC - Complete replacement of HVAC; Luther Bonney Build			
Additional Comments: 96 Falmouth (85 Bedford)			

Referance ID:	387	Fee Type:	MISC-Over Payment
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