

There's an App for That!

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Director of Innovative Technologies



Center for Energy and Environment

March 10, 2011

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Learning Objectives

At the end of this program, participants will be able to:

- understand how smartphones can be a useful field tool for auditors and inspectors, and
- identify currently available off the shelf iPhone apps.



AT&T 10:24 AM

bing



- Images
- Movies
- Maps
- Travel
- Local
- Social
- Camera
- Shop







AT&T 10:41 AM

Search

Directions

Show What's Nearby

Show Traffic

Clear Map

Map Style

- Road
- Aerial ✓
- Bird's Eye

Show Labels

Cancel





AT&T 10:23 AM

bing



Home Back Forward Search Share



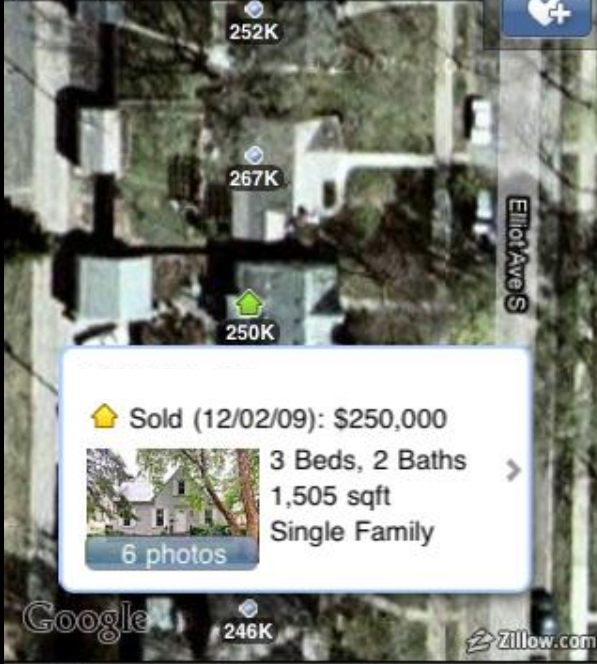






 **Zillow.com**[®]
Your Edge in Real Estate

5 results.



Hybrid View

Detail



Minneapolis MN 55417

🏠 Sold: \$250,000

Monthly Payment: \$968

3 bd 2 ba
Single Family
1,505 sqft

Built in 1939
-- sqft lot

📌 Save

🔗 Share

🌐 Map



Version 1.0

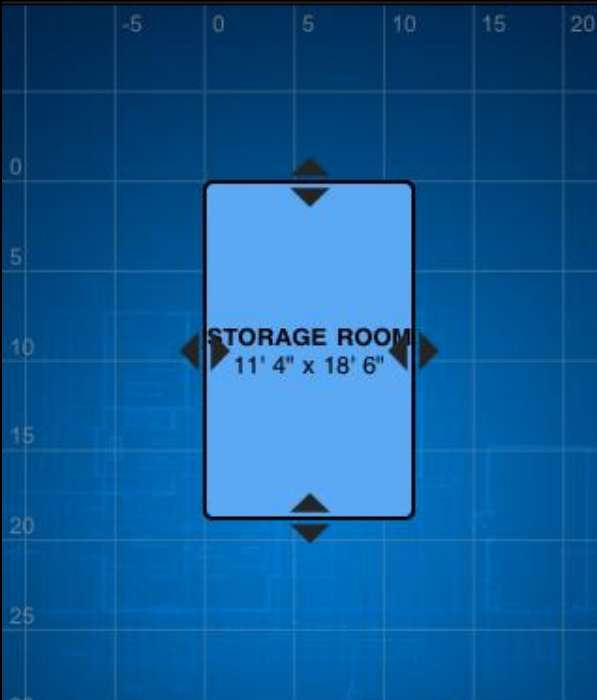
Home 3D

© 2009 Black Mana Studios



AT&T 3:20 PM

Plans **Layout** Interior
1518 Newton



+ ✎ ✕ 🏠 📶 📄
Add Modify Delete Floors Walls Export



AT&T

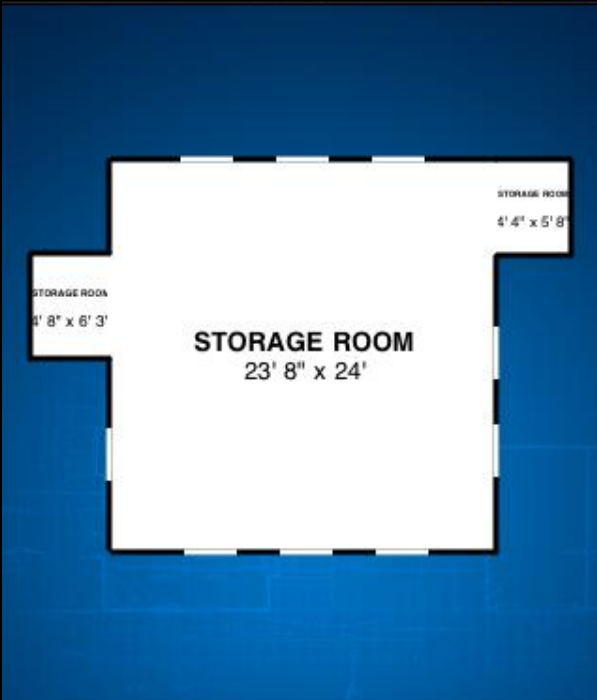
1:50 PM



Back

Interior
1518 Newton

3D



- Furniture
- Appliance
- Fixture
- Floors
- Export



AT&T

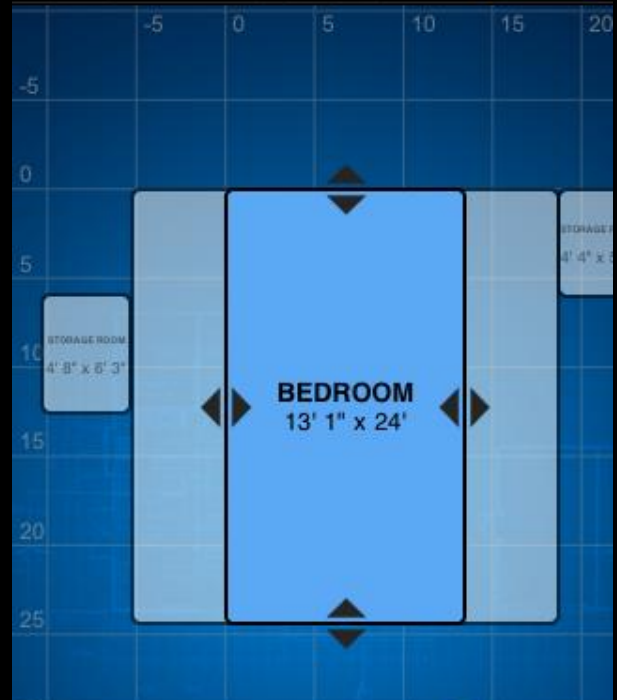
3:03 PM



Plans

Layout
1518 Newton

Interior



Add



Modify



Delete



Floors



Walls



Export





AT&T

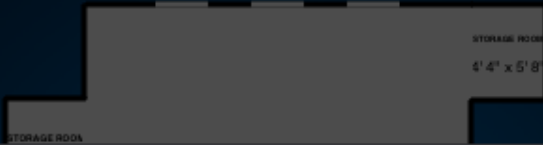
2:58 PM



Back

Interior
1518 Newton

3D



Save to Photo Library

Send via Email

Save and send

Cancel



AT&T

2:59 PM



Back

3D
1518 Newton



Dollhouse



Walkthrough



Materials



Floors



Export





2 in

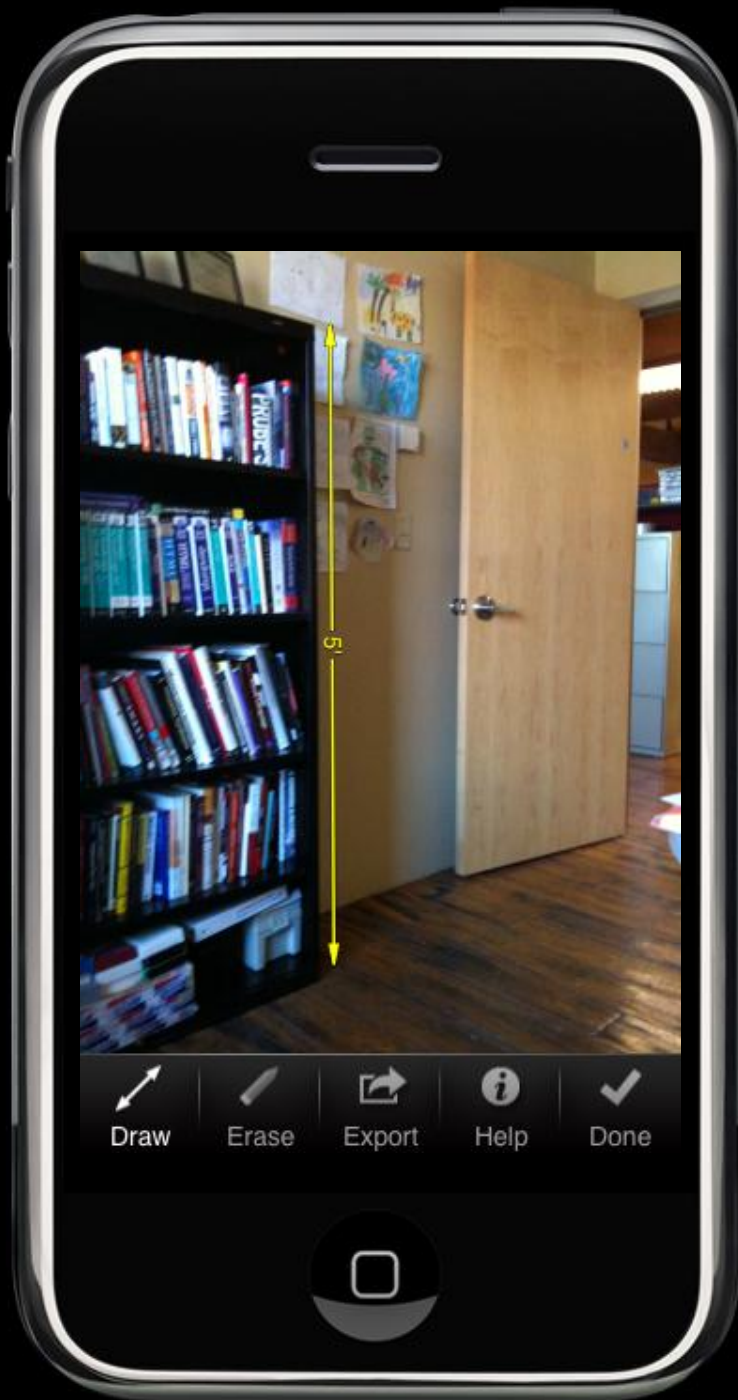
3 in

24 mm

90°

My MEASURES

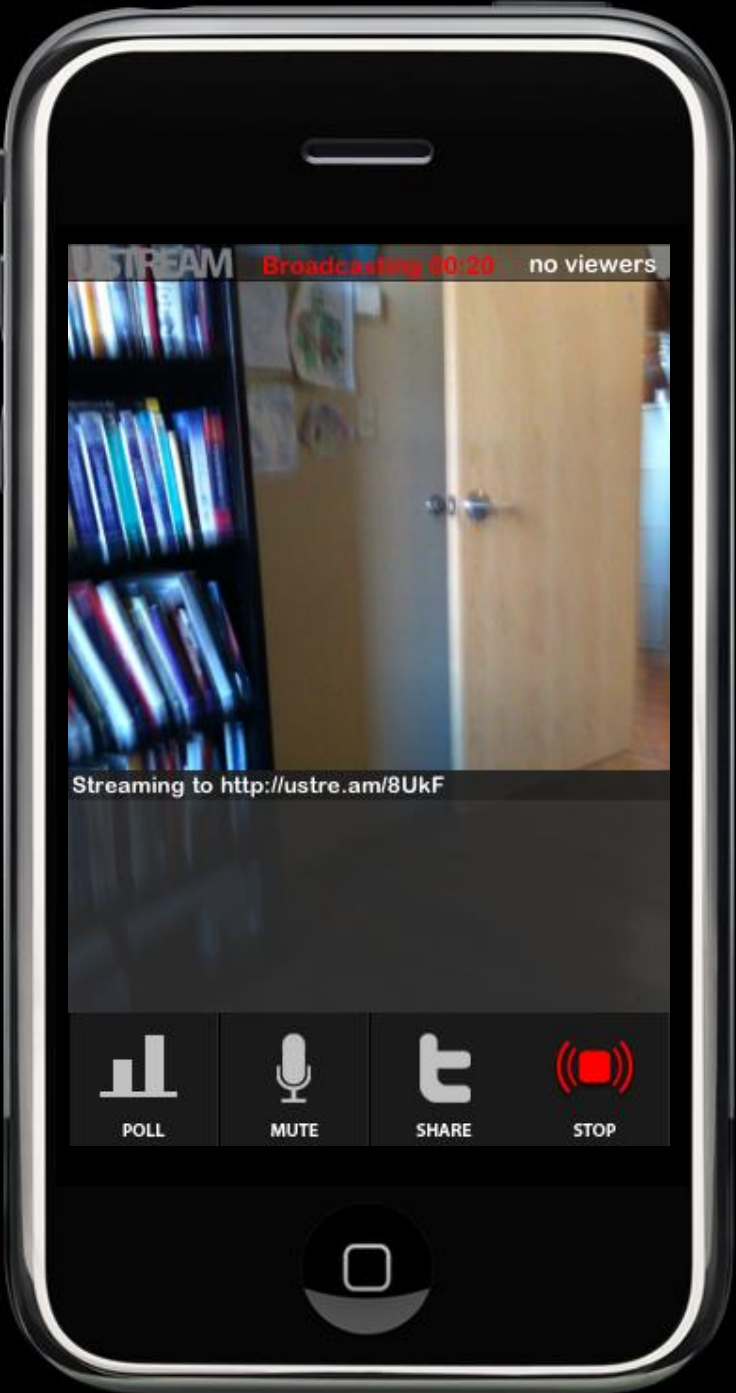
© SIS SOFTWARE



USTREAM

You're On





Ustream Broadcasting 00:20 no viewers



Streaming to <http://ustre.am/8UkF>

-  POLL
-  MUTE
-  SHARE
-  STOP



Ishen

This show does not yet have a status update



Join Crowd 0 in

Broadcast started just now



Social Stream

Chat



Ishen

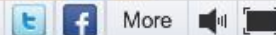
Audience



Send



1 viewers / On Air



Show Info

Honors

Embed

Flag

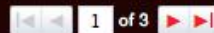


Ishen

Total views: 21

Videos

Highlights



Ishen 03/22/10 12:57PM



Ishen 03/22/10 12:42PM



Ishen live at 08:16am PST on 01/20/2010



Ishen 01/20/10 09:04AM



Ads by Google

Recommended Live Shows



AT&T 12:40 PM

ResVent 62.2

Smith Home



Contact Information

Project name: Smith Home

Building name: Harbor

Contact name: John Smith

Address: 1951 Harbor Bay Pkwy.

Weather location: 0.57 (Phoenix)



City: Phoenix

State/Province: Arizona

Country: United States

Phone number: 925 555 1080

Email: jsmith@gmail.com

Building type: New

Existing



Ventilation Inputs



Reports



Reports Complete HTML Report

Bath 1 (Without window)	0.0	CFM
Bath 2 (Without window)	0.0	CFM
Bath 3 (Without window)	0.0	CFM
Kitchen (With window)	45.0	CFM

Intermediate Results

Average ceiling height	8.0	Ft
ZTP number	27.53	
Equivalent leakage area	153.3	in ²
Natural airflow	53.9	CFM
Natural airflow per occupant	13.5	CFM/o
Natural air changes per hour	0.20	ACH

62.2 Whole-Bldg Ventilation Results

Initial mechanical airflow	50.0	CFM
Alternative compliance supplement	+46.2	CFM
Infiltration credit	-6.97	CFM
Required whole-bldg mechanical airflow	89.3	CFM

Fan Run-Time Tool

Existing fan airflow capacity	95.0	CFM
Fan run-time	56.4	min/hr

ResVent 62.2 (C)2010 R.J. Karg Associates
<http://www.karg.com/resvent622.htm>

Alternative Compliance Supplement

Use alt. compliance tool?: Yes No

Baths affected?: Yes No

Number of baths affected: 3

Kitchen affected?: Yes No

Existing kitchen exhaust fan flow (CFM): 45.0

Has operable window?: Yes No

Results

Whole-bldg mechanical airflow: 89.3 CFM

AT&T 12:41 PM



ENERGY AUDITOR



Home



Audit



About



Terms



Energy Auditor

Auditor Information >

General >

Exterior Inspection >

Major Energy Uses >

Windows >

Insulation >

HVAC and Ducts >



Home



Audit



About



Terms



Above Grade Wall Insulation - Majority

- No insulation
- Most walls fully insulated, some not or wall cavities partially filled
- 2 x 4 wall cavities fully insulated
- 2 x 6 wall cavities fully insulated
- Advanced exterior wall type with greater than 2 x 6 insulation level

Photo:



AT&T

2:10 PM



Mobile Barcode Reader

Tap screen to begin scanning
Swipe to use photo in album



Decode



History



Share



Settings



Help







QR Codes

Content types:

URL

Text

Phone Number

SMS

<http://qrcode.kaywa.com/>



The Pulse of Your Business
In The Palm of Your Hand

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mpha

- 1507 11th St. NE
- 2015 Penn Ave. N
- 3700 Upton Ave. N
- 1514 Newton Ave. N
- 1506 Girard Ave. N**
- 2528 13th Ave. S
- 1026 Oliver Ave. N**

House characteristics

Year Built	1922
House Style	1.5 story
Total Floor Area	2384
No# of Bedrooms	4
No# of Floors	2
Mechanical System	
Heating System Vent...	CV
Electro	



RB 422
CD 547
CF 910



Close

3311 Russell...



House characteristics

Year Built 1914

House Style 1.5 story

Total Floor Area 1970

No# of Bedrooms 4

No# of Floors 2

Mechanical System

Heating System Ven... >> DV

Heating System Efici... >> 90+

Water Heater CV



RB 422
FD 541
CF 910



Close

3311 Russell...



System Ven...

CV

Heating
System Efici... >>

90+

Water Heater
Venting

CV

Water Heater
Efficiency

<90

Energy Use

Flame

10

Spark

4

Air Tightness

Pre Blower
Door

3030

Minimum
Blower Door

1436



RB 122
FD 541
CF 910



Close

myEnergyUse

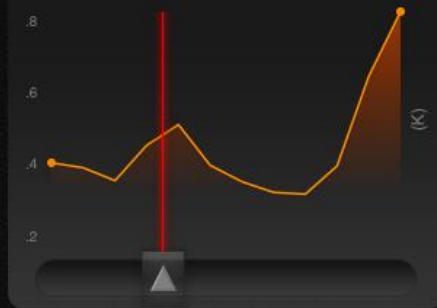


2009-2010

429

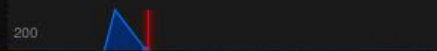
Electric Use

December 429



Natural Gas Use

January 173

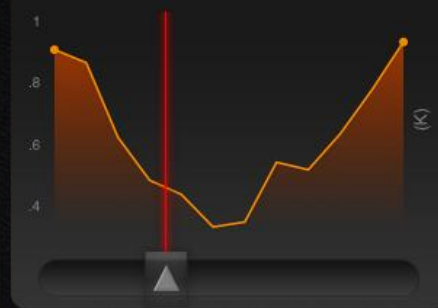


2007-2008

↑ +26.00 (+6.06%)

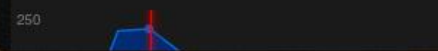
Electric Use

December 455



Natural Gas Use

January 231



Double tap the wood frame to exit full screen



RD 12
CP 141
CP 110



Thank you for your time!

QUESTIONS??

This concludes The American Institute of Architects Continuing Education Systems Program



***Center for Energy
and Environment***

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