

Memorandum

City of Lawrence

Public Works

TO: David L. Corliss, City Manager
Diane Stoddard, Cynthia Wagner

FROM: Chuck Soules, Director of Public Works

CC: Toni Wheeler, Randy Larkin, Scott McCullough, Mark Thiel, David Cronin, David Woosley, James Risner, Chuck Hoag

DATE: December 5, 2012

RE: City Commission Agenda Item for December 18, 2012
Black Hills AMI Project

Background: Black Hills Energy is the natural gas provider for the Lawrence area. In an effort to improve/streamline their meter reading, Black Hills is embarking on wireless meter reading, Advance Metering Infrastructure (AMI)

Project: Black Hills has identified 29 locations at which they will need equipment to transmit data received from meters in the surrounding area.

The equipment consists of a pole, collector or repeater, solar panel, and antenna. Attached are typical installations and a list of the sites. The sites were determined through a propagation study. The City has requested and is working with Black Hills to co-locate on stop lights, where possible, to avoid/minimize adding poles in the right-of-way. The highlighted sites indicate those areas where Black Hills equipment will be added to a signal pole.

Black Hills currently operates within the City's right-of-way under a Franchise Agreement. These installations will obtain a right-of-way permit, go through a Historic Environs review (when applicable) and Black Hills will contact adjacent and affected neighbors.

The City has also discussed the opportunity to possibly share some of this technology/infrastructure with Black Hills for water meter reading. There are a lot of details to this and Black Hills has indicated a willingness to cooperate when the City is ready to pursue this technology.

Representatives from Black Hills will be present at the City Commission meeting for discussion and to answer questions.

Action Requested: Receive report on Black Hills AMI (Advance Metering Infrastructure) project.

Respectfully Submitted,



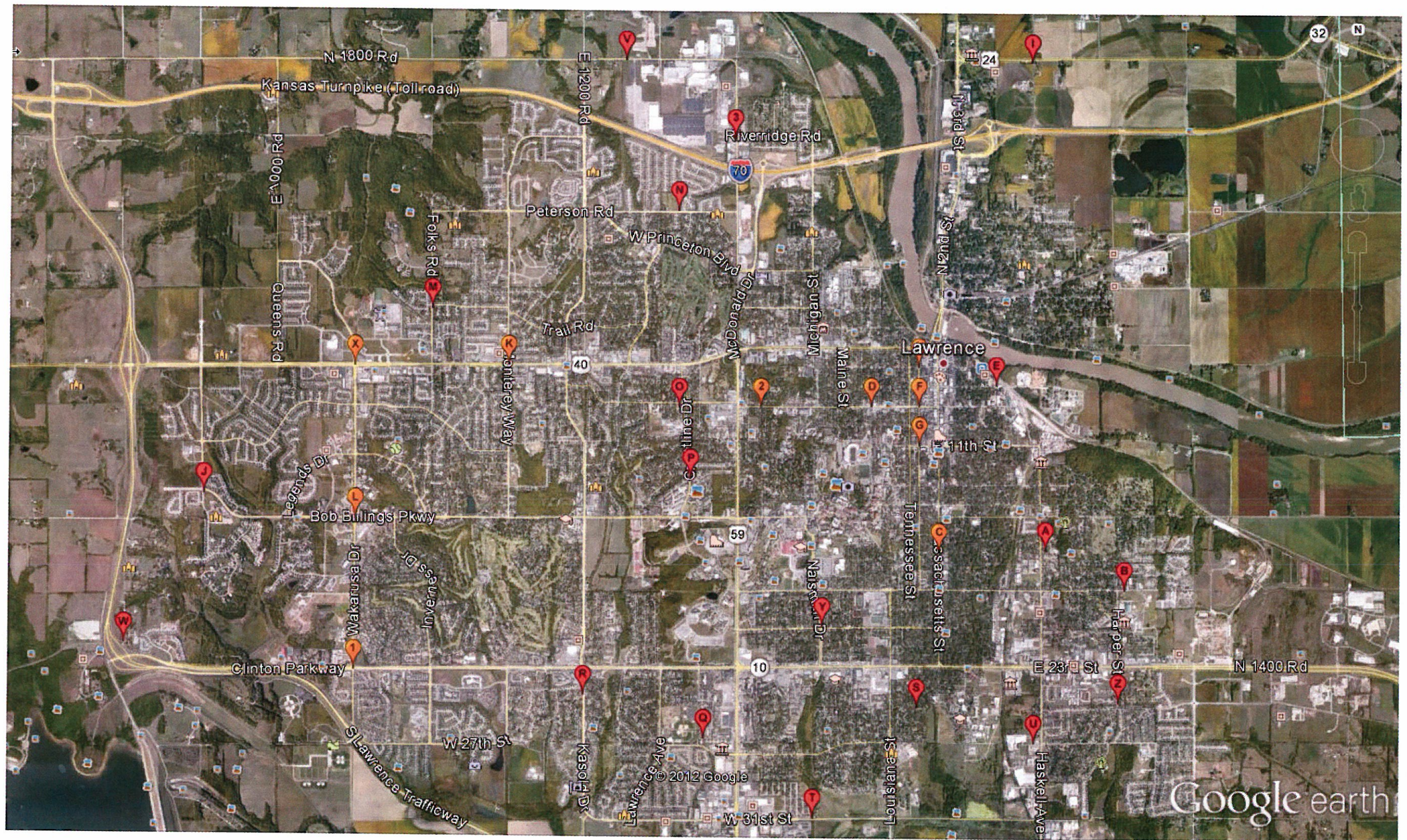
Charles F. Soules, P.E.
Director of Public Works

CFS/ch

Attachments: Site Locations
Map
Photos

Google Earth #	Site location	Latitude	Longitude
A	Green space in Edgewood	38.953727°	-95.222900°
B	19th St & Harper St.	38.949914°	-95.213342°
C*	17th and Massachussetts	38.953642°	-95.235906°
D*	9th and Mississippi St	38.967513°	-95.244068°
E	Lawrence BHE former shop	38.969486°	-95.228781°
F*	9th and Kentucky St.	38.967513°	-95.238254°
G*	11th and Kentucky St. NE corner pole is taller	38.963795°	-95.238237°
H*	7th and Kentucky St.	38.971280°	-95.238253°
I	24 Hwy & E 1500 Rd (North 7th St)	39.000223°	-95.224199°
J	Bob Billings & George Williams Way	38.959420°	-95.325441°
K*	6th & Monterey Way	38.971541°	-95.288254°
L*	Bob Billings & Wakarusa Dr.	38.956995°	-95.306929°
M	Trail Rd & Folks Rd	38.976947°	-95.297514°
N	Peterson Rd & Edinburgh Rd	38.986229°	-95.267522°
O	9th and Madeline Ln	38.967503°	-95.267522°
P	University Dr. and Crestline Dr.	38.960758°	-95.266179°
Q	26th St between Iowa and 27th St.	38.935961°	-95.264674°
R	24th and Kasold (to the south)	38.940130°	-95.279292°
S	Kansas St & Vermont St (Park)	38.938822°	-95.238672°
T	31st Street between DRS'	38.928311°	-95.251325°
U	27th & Haskell (S of Cutler Repaving)	38.935357°	-95.224462°
V	DRS Lakeview Road	39.000525°	-95.273885°
W	TBS Breithaupt	38.945181°	-95.335271°
X*	6th & Wakarusa Dr	38.971540°	-95.306955°
Y	21st St & Naismith Dr.	38.946601°	-95.250117°
Z	25th Ter & Harper St.	38.939201°	-95.214116°
1*	Clinton Pkwy & Wakarusa Dr.	38.942606°	-95.307214°
2*	9th and Sunset (on crosswalk signal pole)	38.967490°	-95.257559°
3	Lawrence BHE Office	38.993095°	-95.260618°

*AMI equipment mounted on existing traffic signals









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