

Date: March 9, 2012

To: Chuck Soules, Director, City of Lawrence Public Works Department

From: Paul Graves, Deputy Director, KU Design & Construction Management

Subject: Review Comments on 50% Design Drawings for the Iowa & 15th Reconstruction Project

Thank you for the opportunity to provide input on the 50% design drawings for this project. We respectfully offer the following comments for your consideration:

1. Lane extension: Pursuant to the offer in your December 6, 2011 email, KU is committing to fund the lesser of \$135,780.50 or the actual contractor's bid price in FY 2013 to extend the second (southernmost) eastbound lane of 15th Street to Engel Road. This will improve the function of the Iowa Street & 15th Street intersection by providing two lanes for thru traffic instead of the current condition where the taper to one lane on the east leg creates effectively one thru lane. The additional lane on the east leg will also facilitate future reconstruction to offset the south leg of the intersection at 15th Street and Engel Road to reduce turning-movement conflicts and thereby improve the safety of this intersection which has consistently been among the most accident-prone on campus. Please add this lane extension in the design drawings and bid it as an add-alternate.
2. Sidewalk extension: Pursuant to the offer in your December 7, 2011 email, KU is committing to fund the lesser of \$75,000 or the actual contractor's bid price in FY 2013 to extend the 10-foot wide sidewalk on the south side of Bob Billings Parkway from the service drive approximately 700 feet west of the intersection of Iowa & 15th to Crestline Drive – unless the City will cover this cost as part of the Bob Billings Parkway reconstruction project and if this can be constructed concurrent with the Iowa & 15th reconstruction project in 2013. This sidewalk extension will improve pedestrian safety and accessibility, as well as bicycle safety, by providing a separate, paved pathway from intersection to intersection, significantly reducing the likelihood for mid-block crossings due to sidewalk termination between intersections. Please add this sidewalk extension in the design drawings and bid it as an add-alternate unless the City will cover the cost.

3. Utility locations: Please add KU Facilities Operations to the list of utilities at the bottom of Sheet 2, and consider amending General Note 3 or adding a separate general note to include the following text, or similar:
 - a. Contractor shall call both Kansas One Call (1-800 DIG-SAFE; 1-800-344-7233) to request a utility locate ticket and, for excavation on or adjacent to campus, the KU Facility Operations engineering office (785-864-5620; cell: 785-393-4235) at least 48 hours prior to beginning any excavation work, for onsite assistance in locating known underground utilities in the area of work.
 - b. For utilities on or adjacent to campus, Contractor shall contact KU Facility Operations engineering office (785-864-5620; cell: 785-393-4235), prior to backfilling any underground utility lines and shall allow adequate time during normal business hours for FO personnel to survey and establish location and depths of all lines.
4. Utility relocations, easements and ROW: DCM representatives met with City representatives on March 9, 2012 as a step in determining which utilities KU is responsible for relocating and which utilities the City or utility companies will be responsible for relocating. Several follow-up actions were identified:
 - a. DCM will provide Bartlett & West, the City's design consultant on this project, with KU's utility master map and a list of KU utility contacts for this project.
 - b. Bartlett & West will use the KU utility master map to identify precisely which utility lines will need to be relocated for this project, and they will notify DCM of their findings.
 - c. The City has asked KU to consider shared use of data conduits in future projects.
 - d. The City will provide updated design drawings to DCM when available. When exact limits of construction easement limits are known, DCM will approach KU legal counsel to review the easements and to seek administrative approval or response as appropriate.
 - e. The City will identify if additional right-of-way is needed at the southwest corner of Iowa & Bob Billings, for the second eastbound thru lane/right turn lane at Engel Rd., or elsewhere along KU property, and will provide this information to DCM when available. DCM will approach KU legal counsel to review the ROW request and to seek administrative approval or response as appropriate.

- f. Bartlett & West will examine whether the 10-foot wide multi-use sidewalk will be feasible along the south side of Bob Billings parkway adjacent the Housing warehouse.
5. Signs and other improvements: Please consider amending General Note 6 to require the contractor to re-install signs and other improvements, which have to be removed for the street improvements and associated utility and drainage adjustments, at new locations agreed upon by the owner (DCM on behalf of KU) and the City's representative. Specifically, we're asking the City to consider re-installing the KU wayfinding sign on the southeast corner of Iowa & 15th, which will apparently have to be removed due to storm sewer improvements in that area.
6. Roadway sections: (a) Typical sections on Sheet 5 specify 4:1 max side slopes along Bob Billings Parkway and 15th Street; however, cross sections on Sheet 87 specify 3:1 side slopes along the KU campus. It appears 4:1 side slopes may be feasible. Please revise the cross sections to specify 4:1 side slopes along the KU campus to improve slope stabilization and facilitate mowing. (b) Sheet 7 indicates some sidewalk reconstruction along the south side of 15th Street. Please show this in the cross sections on Sheets 91 thru 93 as appropriate.
7. Street closure: Please add a general note, and a note on the construction phasing plan as appropriate, stipulating that 15th Street and Bob Billings Parkway must not be closed to traffic until the day after the 2013 graduation ceremony (anticipated on May 19, 2013) and must reopen to traffic one week before the residence halls open for the 2013 fall semester (anticipated on August 16, 2013), at which time the intersection of Iowa & 15th/Bob Billings must be fully open to all traffic movements.
8. ADA standards: The 2010 ADA standards are effective March 15, 2012. Please ensure that sidewalks, ramps, signs, and other elements of this project are designed in compliance with the 2010 ADA standards.

Thank you for your consideration. We look forward to continued coordination with the City as this project progresses.