

CURRENT FY07-08 PROJECTS

- ROSA STREET (KICKAPOO TO IONE)
- BROADWAY STREET (HIGHLAND TO 7TH)
- WESTECH ROAD (HARRISON TO ¼ MILE EAST)
- KICKAPOO (MACARTHUR TO KICK. SPUR)
- WEST UNIVERSITY DRIVE
- YMCA PARKING LOT
- STREET CONSTRUCTION (NOT IDENTIFIED)

ROSA STREET (KICKAPOO TO IONE)

- \$395,000 Budgeted FY07-08
- Street improvement will be a new curb & gutter street, reconstructed from the base up, with water line relocation part of the project.
- Field survey and topo completed, and Preliminary Design Plans completed.
- Tentative schedule is to have Final Design Plans and Bid Documents completed by April with Bid Letting by the end of April, and Bid Opening the 2nd Commission meeting in May.

BROADWAY STREET (HIGHLAND TO 7TH)

- \$495,000 Budgeted FY07-08
- Project is a 'maintenance' type project; existing surface will be milled to smooth template, base failures where old trolley was located will be repaired, and then new 2-3 inches of asphalt surfacing installed. Handicapp ramps at intersections will need to be addressed.
- Field survey and topo completed, and Preliminary Design Plans completed.
- Tentative schedule is to have Final Design Plans and Bid Documents completed by April with Bid Letting by the end of April, and Bid Opening the 2nd Commission meeting in May.

WESTECH ROAD (HARRISON TO ¼ MILE EAST)

- \$523,000 Budgeted FY07-08, Funding to be provided by Sac&Fox
- Agreement with Sac&Fox whereby S&F to provide funding for construction costs not to exceed \$550,000
- Project has been let for bids 3 times; first two times low bid(s) were around \$658,000 exceeding project funding; last time bid, low bid is around \$567,000 and is being reviewed with the S&F; a recommendation will be presented at the March 3th City Commission meeting.

KICKAPOO (MACARTHUR TO KICK. SPUR)

- \$1,000,000 Budgeted FY06-07
- \$1,000,000 Budgeted FY05-06
- \$1,000,000 Federal funding ear marked by Congressman Istook's office
- \$1,000,000 Proposed for FY08-09 Budget
- Total contribution from City of Shawnee--\$4,000,000
- Preliminary Estimate for construction costs of Project is \$8.5 to 9 million dollars.
- ODOT has employed Clour Engineering to design project; Final Design Plans approx. 90% complete; Clour Engineering has entered into supplemental contract with ODOT to provide Right-of-Way Plans and legal descriptions for the 75+ easements and parcels needed for the project. R/W plans to be completed by May 2008.

KICKAPOO (MACARTHUR TO KICK. SPUR)

- City has employed Guy Engineering to coordinate utility relocations with affected utility companies. Field meeting(s) with utilities will be scheduled within the next several weeks to discuss relocation issues. Utility companies will need to prepare relocation plans for submittal to Guy Engineering for review and approval.
- City will advertise for Request for Proposals from firms to provide R/W acquisition and appraisal services. RFP's will be received at the March 24th City Commission meeting.
- Goal is to get the private utilities relocated and to obtain right-of-way parcels and easements within the next 12-15 months to be ready to let project for bids by Spring of 2009, with construction commencing shortly thereafter.

WEST UNIVERSITY DRIVE

- \$80,000 Budgeted FY07-08
- City partnered with O.B.U. to construct a curb & gutter street improvement from Airport Drive, eastward approx. 1100 feet.
- Project has been completed and City has remitted \$80,000 to OBU as the City's share.
- Also, as part of the roadway project, the City's water main had to be relocated, and the City, through the SMA contributed \$30,000 to OBU towards the water line relocation costs.

YMCA PARKING LOT

- \$175,000 Budgeted FY07-08
- City is partnering with the YMCA to construct the YMCA's parking lot.
- Parking lot currently under construction.

STREET CONSTRUCTION (NOT IDENTIFIED)

- Not having to budget \$1,000,000 this fiscal year towards the Kickapoo Paving Project, we currently have \$1,189,190 in a street account where street projects have not been identified and approved.
- In order to best recommend how this funding should be spent, we have evaluated the streets of Shawnee based on the condition of the roadway and the need for repair.
- We have created a data base of the street blocks within the City of Shawnee city limits, and have listed the pavement type, date of last repair/improvement, type of improvement work, approximate length, width, and square yards of paving for each block.
- There are a total of 1,542 street blocks. Each block has been video taped and DVD's were made to aide in subsequent evaluation and review of the various street blocks.

STREET CONSTRUCTION (NOT IDENTIFIED)

- The data base of street blocks were divided into two major categories; those streets that have received repairs/improvements within the last 15 years, and those that have not.
- We have concentrated our evaluations of the pavement condition with the 750 street blocks that have not had any repair/improvements the last 15 years.
- Each street block has to be personally visited, inspected, and then evaluated. Asphalt streets were evaluated utilizing a Condition Rating Index in which scores are given for the various types of distress encountered, i.e. traverse cracks, longitudinal cracks, alligator cracks, shrinkage cracks, rutting, corrugations, shoving or pushing, pot holes, excess asphalt, polished aggregate, and overall riding quality.

- Asphalt Pavement Rating Form

Street Name: _____

(Note: a rating of "0" indicates defect does not exist)

| DEFECTS | RATING |
|---|------------|
| Traverse Cracks | 0-5 _____ |
| Longitudinal Cracks | 0-5 _____ |
| Alligator Cracks | 0-10 _____ |
| Shrinkage Cracks | 0-5 _____ |
| Rutting | 0-10 _____ |
| Corrugations | 0-5 _____ |
| Raveling | 0-5 _____ |
| Shoving or Rutting | 0-10 _____ |
| Pot Holes | 0-10 _____ |
| Excess Asphalt | 0-10 _____ |
| Polished Aggregate | 0-5 _____ |
| Deficient Drainage | 0-10 _____ |
| Overall Riding Quality (0 is excellent) | 0-10 _____ |

Sum of Defects: _____

$$\begin{aligned} \text{Condition Rating} &= 100 - \text{Sum of Defects} \\ &= 100 - \underline{\hspace{2cm}} \end{aligned}$$

$$\text{Condition Rating} = \underline{\hspace{2cm}}$$

- Concrete streets were inspected and evaluated; based on professional judgement from visual observations of the condition of the road surfacing and types of distress exhibited in the pavement, the streets were placed into four different type ratings, 1) Good, 2) Good to Fair, 3) Fair to Poor, and 4) Poor.
- Streets with Good and Good to Fair ratings would only be in need of routine annual maintenance as the need arises.
- Streets with Fair to Poor and Poor ratings would be in need of more costly repair/improvements.

Recommendations

- For the FY07-08 unspecified funding of \$1,189,000 we would recommend the following street work:
- **Airport Drive (Independence to MacArthur)** – mill and overlay the mile length of paving at an estimated cost of \$398,820
- **Kickapoo Street (7th to Farrall)** – mill and overlay at an estimated cost of \$113,140
- **Main Street (Kickapoo to Harrison)** – mill and overlay, address handicap ramps, and restripe street & parking at an estimated cost of \$598,000
- **Highland Street (Kickapoo to lone)** – mill and overlay at an estimated cost of \$152,000

Total Estimate of 4 recommended projects @ \$1,261,960

Street Project Priorities

Several years ago, the City Commission ranked the following projects in the order of importance:

- 1. *MacArthur & Airport Intersection Improvements* (Completed)
- 2. *MacArthur from Tunnel west to Acme Road* (Completed)
- 3. *5-Laning Kickapoo from I-40 to 45th* (Completed)
- 4. *Kickapoo 4-Laning from MacArthur to Highland* (Completed)
- 5. 45th 4-Laning from Kickapoo to Harrison
- 6. Kickapoo from I-40 to ½ mile south of Wolverine
- 7. MacArthur 4-Laning from Harrison to Bryan
- 8. Downtown Streetscape Improvement Project
- 9. Highland & Union Intersection Improvement
- 10. Other Intersection Improvements (Indep. & Broadway)

45th Street 4-Laning from Kickapoo to Harrison

- **Problem:** Existing street is a narrow 2-lane asphalt road (no curbs); capacity of street will not accommodate projected traffic useage as a result of continued growth and development along the 45th Street corridor.
- **Solution:** Widen roadway to 4 lanes with turning lane down the center or divided medium with designated left turn bays.
- **Estimated Cost:** \$3,875,000



Kickapoo from I-40 to ½ mile south of Wolverine

- **Problem**: Existing road is a narrow 2-lane street with numerous base/subgrade failures. This road is a major access point to the Shawnee Industrial Park and Wolverine Industrial Park north of I-40.
- **Solution**: Reconstruct and widen roadway to a 3-lane road, with turning lane down the middle.
- **Estimated Cost**: \$2,700,000



MacArthur 4-Laning from Harrison to Bryan

- **Problem:** Existing roadway is a narrow 2-lane street with many areas of base/subgrade failure; capacity of road will not be able to accommodate future traffic growth.
- **Solution:** Reconstruct and widen roadway to a 4-lane street improvement.
- **Estimated Cost:** \$4,200,000



Downtown Streetscape Improvement Project

- Phase I Bell Street from 7th to 9th Estimated Cost: \$1,000,000
- Phase II Main St. from Beard to Phil. Estimated Cost: \$1,388,000
- Phase III Remaining Downtown Dist. Estimated Cost: \$2,210,000

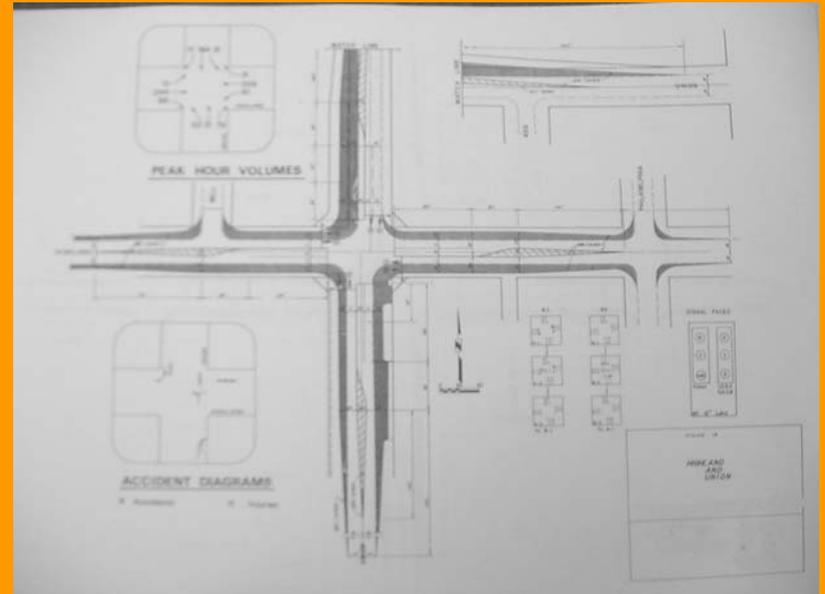


Highland & Union Intersection Improvement

- **Problem:** Intersection is narrow and not aligned that results in dangerous traffic movements, a school sits on the northeast corner of the intersection. The road is deteriorating with several base/subgrade failures.
- **Solution:** Reconstruct and realign intersection, and provide improved signalization with protected turning movements.
- **Estimated Cost:** \$880,000



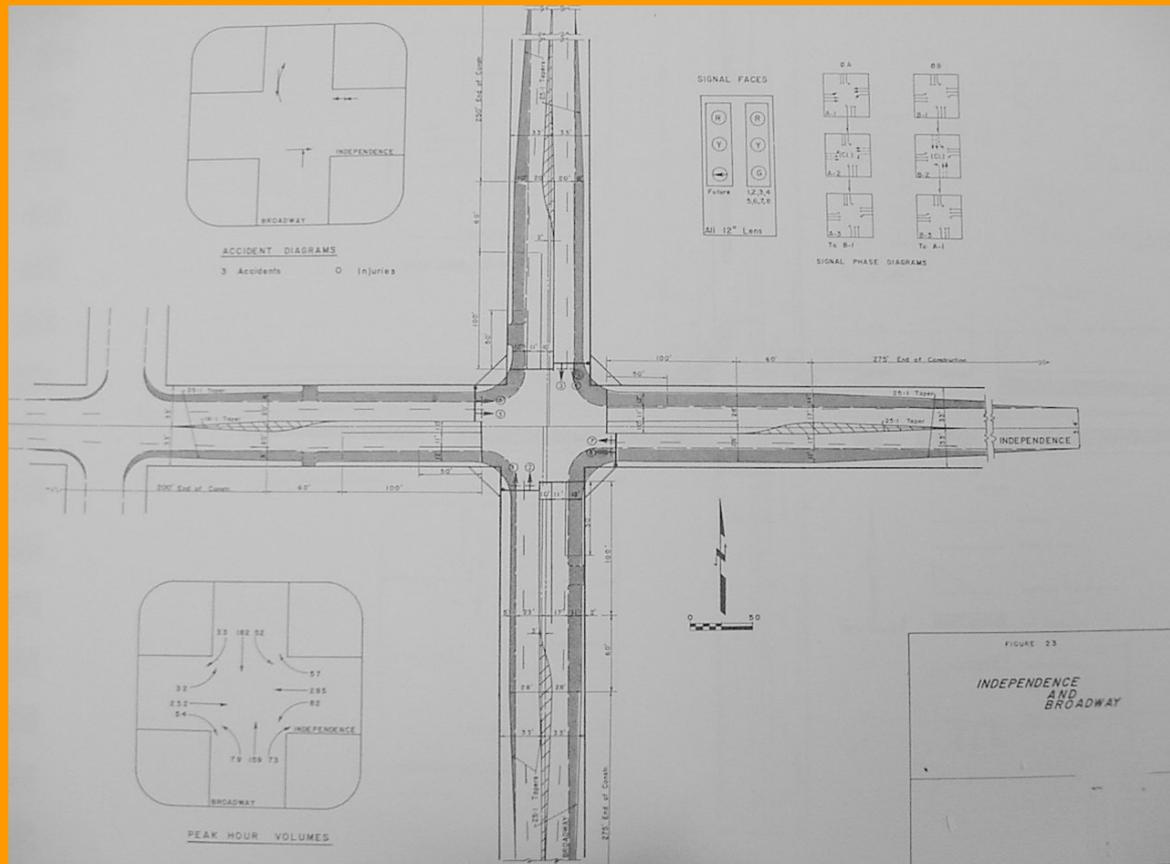
Highland/Union Intersection



Proposed Geometric Improvements

Other Intersection Improvements (Indep. & Broadway)

- Independence & Broadway:
- Estimated Cost: \$850,000



Independence/Broadway