


John R & East Ferry Drain Construction Project

Work Session Presentation to City
Council on May 24, 2006

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Existing John R Road Conditions

- John R is mostly a three-lane asphalt road between Auburn and Hamlin. About a 1,000 foot section south of Briston Drive exists that is not wide enough to provide a continuous center turn lane
- John R is a two-lane asphalt road between South Boulevard and Auburn, wider at the intersections, with a passing lane for southbound traffic by the Spencer Park entrance

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Additional John R Considerations

- John R between Hamlin and Auburn and Auburn to South Boulevard are both City major roads
- Both John R sections have existing asphalt pavement thicknesses varying between 7 and 9 inches
- City of Troy currently intends to extend a 5-lane road section along John R to South Boulevard around 2011 or 2012
- John R is classified as a minor arterial roadway

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Typical Conditions of a Minor Arterial

- Right-of-way width between 66 and 150 feet
- Average daily traffic (ADT) between 5,000 and 30,000 vehicles
- Speed limit between 30 and 35 miles per hour
- Parking is generally prohibited along the roadway

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Details of John R South of Auburn

- Traffic counts:
 - 2001 ADT: 15,600 vehicles per day
 - 2003 ADT: 14,874 vehicles per day
 - 2005 ADT: 14,564 vehicles per day
- Master planned right-of-way width is 120 feet
- Posted speed limit is 45 mph

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Capital Improvement Plan (CIP) Inclusion and Work Description

- John R between Hamlin and Auburn is identified as MR-30 and has been described as a 2-inch overlay and gap filling to provide a continuous three-lane road section in every CIP since 2000
- John R between Auburn and South Blvd. is identified as MR-31 and has been described as a complete pavement removal and replacement of the existing 2-lane roadway since the 2000 CIP

Why was the scope of MR-31 changed?

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Coordination and the Economies of Scale

- **Converging schedules, a desire to minimize disruption from multiple projects, and believing that a single bid combining several projects of similar work lead to the following scope of work for one project:**
 - East Ferry Drain (SW-06)
 - John R north of Auburn (MR-30)
 - John R south of Auburn (MR-31)
 - Replacement of 1,260 feet of existing 12-inch asbestos cement water main built before 1965 along the east side of the John R pavement
 - Pathway construction on the westerly side of John R between South Blvd. and 3480 John R
 - Possible incorporation of relocating the Michelson Pump Station out of the existing flood plain limits but within the existing City-owned parcel (2007 CIP project SS-23B)
 - Spencer Park parking lot paving improvements

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Project Scope and Driveway Review

- **Total length of reconstruction was originally planned. However, a partial reconstruction with wedging and overlaying the existing remainder to a three lane section was later supported by the engineering staff**
- **Design practices for minor arterials recommend a three lane roadway for mile sections of road that have more than 45 driveways and less than 24,000 ADT**

John R south of Auburn has 64 driveways with 14,564 ADT

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Tentative Project Schedule Key Dates

- **Complete design; August 2006**
- **Receive project bids; September 2006**
- **Construct Spencer Park Improvements; early October to mid-November 2006**
- **East Ferry Drain construction on Enfield and Michelson; Dec 2006 to Jan 2007**
- **Reconstruct Michelson Pump Station; Feb. to April 2007**
- **Construct East Ferry Drain, relocate water main and pave John R south of Auburn; April to August 2007**
- **John R Road overlay north of Auburn; September 2007**

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Breakdown of Easement Needs

- The easement/right-of-way acquisition process is estimated to take 9 months to complete
- 46 affected parcels currently estimated and the parcels include the following:
 - 15 highway easement acquisitions
 - 17 pathway easement acquisitions
 - 36 temporary grading easements
 - 6 storm drainage easements

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Questions Requiring Council Direction

- Will the three lane section along John R south of Auburn be supported?
- Will the incorporation of the Michelson Pump Station relocation into the project be supported?
- Will the Hubbell, Roth & Clark (HRC) right-of-way acquisition proposal be passed at the June 7, 2006 regular council meeting?

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