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Amendment Number: 2008- 65_a
Reviewed by USDOT:
TPC Approved: 12/18/08
Public Comment began:
Public Comment complete:
MPC Approved/**Informed:** 1/8/09
Sent to ODOT/STIP Coord:
STIP Amendment #:

AMENDMENT
FY08-11 Metropolitan Transportation Improvement Program (MTIP)

DATE OF REQUEST: 12/10/2008 **BY AGENCY, PERSON:** ODOT, Doug Spencer/Ken Kohl

ODOT KEY NUMBER: 13794 **RTP NUMBER/POLICY:** TSI Roadway Policy #1;
ITS Plan: ES-TM-02

PROJECT NAME: Region 2 Illumination Replacements and ITS Improvements

PROJECT SUMMARY: Illumination replacement work at I-5 @Glenwood, Beltline@River Rd, I-105; repair/replace mast towers on I-105; install queue warning system for Delta/Beltline interchange including VMS sign and sensor; add camera.

ACTION REQUESTED:

- delete existing MTIP project/phase
- add new MTIP project/phase
- change existing MTIP project/phase

REASON FOR REQUEST:

Funds were approved by OTC to include queue warning system for Delta/Beltline interchange. Camera is being transferred to this project from Key 14783 since much of construction work is in same locale.

IS THIS REQUEST AN ADMINISTRATIVE AMENDMENT?

(Any amendment that impacts fiscal constraint or air quality conformity must be approved by MPC)

- Yes other-described below in OTHER COMMENTS
- No (requires MPC adoption)

FISCAL CONSTRAINT

Is this project federally funded? Yes No
Changes in funding sources: Federal: STP for any area
State: SPECIFY SOURCE:
Local SPECIFY SOURCE:

AIR QUALITY – CONFORMITY:

Is the project in the AQMA? (see map <http://www.lcog.org/aqc/default.htm>) Yes No

If YES, Is the project EXEMPT from Air Quality Conformity ? Yes No

If YES, specify exempt category (see Appendix A; e.g. Table 2-Safety-adding medians):
OAR 340-252-0270 - Table 2 -Exempt- Safety - Lighting improvements; Traffic control devices and operating assistance other than signalization projects.

If NO, Is this project regionally significant? (see Appendix A): Yes No
Does this amendment trigger a conformity determination? Yes No

Provide rationale for this declaration:

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OTHER COMMENTS:

The Delta Hwy/Beltline queue warning funds were approved in October by OTC as part of the ITS Innovative Projects program. MPC endorsed the project application by Lane Co. in August. This work is being added to an existing project since work will occur in the same area and it is more efficient to carry out construction work in a combined project.

CHECKLIST OF ATTACHMENTS:

- MTIP/STIP Amendment spreadsheet – for all deletion/addition/change actions
- MTIP Project Description Form (Form TIP-2) – for all new projects or significant changes

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OTHER COMMENTS:

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MTIP/STIP AMENDMENT REQUEST FORM -- COMBINE PROJECTS (Revised 5/24/06)

HFO USE ONLY:		Fiscal Constraint Confirmed <input type="checkbox"/>		OTIA Project? <input type="checkbox"/> Is this an OTIA project? <input type="checkbox"/>		MPO USE ONLY:	
STIP AMENDMENT NO.: <input type="text"/>		Let Date (if known) <input type="text" value="2/25/2010"/>		OTIA I & II Change Approval Date <input type="text"/>		MTIP AMENDMENT NO.: 2008-65	
Project in MPO? <input type="text" value="EUGENE-SPRINGFIELD"/>		OTIA III Bridge Change Approval Date <input type="text"/>		OTIA III Modernization Change Approval Date <input type="text"/>		RTP Project No. <input type="text" value="TSI Roadway Policy #1; ITS ES-TM-02"/>	
Air Quality Conformity Required? <input type="text" value="NO"/>		Requested By <input type="text" value="Doug Spencer -ITS & Ken Kohl CPM"/>		Date of Request <input type="text" value="12/2/2008"/>		MTIP ID No. <input type="text"/>	
STIP Page No./Amendment No. <input type="text" value="180"/>		Admin By <input type="text" value="ODOT"/>		Applicant <input type="text" value="ODOT"/>		MTIP Coordinator Approval Date <input type="text" value="Susan Payne, 541-682-7435"/>	
Key No. <input type="text" value="13794"/> Region <input type="text" value="2"/> Option Code <input type="text" value="S"/> ACT <input type="text" value="LANECO"/>		Work Type <input type="text" value="OP-SSI"/> Percent <input type="text" value="100%"/>		Work Type 2 <input type="text" value="Enter second"/> Percent <input type="text"/>		Reg. STIP Coord. Approval Date <input type="text" value="Mac Lynde"/>	
Project Name <input type="text" value="Region 2 Illumination Replacements"/>		Current Monitor Code <input type="text" value="PSEDOC"/>		New Monitor Code <input type="text" value="PSEDOC"/>		Date <input type="text" value="12/2/2008"/>	
Route No. <input type="text" value="Var"/> Hwy. Name <input type="text" value="Various"/>		Hwy. No. <input type="text" value="Var"/>		Beginning MP <input type="text"/>		Fiscal Constraint Confirmed <input type="text" value="YES"/>	
Ending MP <input type="text"/>		Proj. Length <input type="text"/>		US Cong. District <input type="text" value="VARIOUS"/>		Mode <input type="text" value="OPERATIONS"/>	
Senate District <input type="text" value="VARIOUS"/>		Representative District <input type="text" value="VARIOUS"/>		County <input type="text" value="VARIOUS"/>		Comments: <input type="text" value="Amends FFY08-11 MTIP"/>	
Work Description <input type="text" value="Illum I-5@N Albany, Glenwood,OR569@Riverrd,I-105 RPR/Replace 21 Towers, US20Repl 14 lights"/>							

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REQUESTED ACTION:

- 1) Combine the STATEWIDE ITS project on Delta Hwy (as approved by the OTC) to Key 13794. Note: ITS project did not have a key number assigned yet.
- 2) Transfer \$106,500 from K14783 Region 2 CCTV to Key 13794 to install one camera
- 3) Change name of Key 13794 to "Region 2 Illumination & ITS Improvements"
- 4) Change work description of K13794 to: Illum I-5@N.Albany,Glenwood,OR569@RiverRd, instal VMS ,I-105 & US20 Replace Towers/Lights

CURRENT PROGRAM STATUS (COMBINE THESE PROJECTS):

KEY NUMBER: 13794		OJECT NAME: Region 2 Illumination Replacements														
WORK PHASE	YEAR	1st FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	2nd FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	3rd FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	4th FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	TOTAL FEDERAL	PROJECT TOTAL	CARRY OVER?
PLAN														\$0	\$0	
PRELIM ENG	2006	L250	\$224,325	\$250,000										\$224,325	\$250,000	
R/W	2009	L240	\$3,589	\$4,000										\$3,589	\$4,000	
UTIL RELOC														\$0	\$0	
CONST	2010	L240	\$1,514,642	\$1,688,000										\$1,514,642	\$1,688,000	
OTHER														\$0	\$0	
TOTAL			\$1,742,557	\$1,942,000		\$0	\$0		\$0	\$0		\$0	\$0	\$1,742,557	\$1,942,000	

KEY NUMBER: NA		OJECT NAME: Delta Highway ITS - VMS Install (Eugene)														
WORK PHASE	YEAR	1st FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	2nd FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	3rd FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	4th FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	TOTAL FEDERAL	PROJECT TOTAL	CARRY OVER?
PLAN														\$0	\$0	
PRELIM ENG														\$0	\$0	
R/W														\$0	\$0	
UTIL RELOC														\$0	\$0	
CONST	2009	S010		\$1,365,890										\$0	\$1,365,890	
OTHER														\$0	\$0	
TOTAL			\$0	\$1,365,890		\$0	\$0		\$0	\$0		\$0	\$0	\$0	\$1,365,890	

KEY NUMBER: 14783		OJECT NAME: Region 2 CCTV Project														
WORK PHASE	YEAR	1st FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	2nd FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	3rd FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	4th FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	TOTAL FEDERAL	PROJECT TOTAL	CARRY OVER?
PLAN														\$0	\$0	
PRELIM ENG	2007	L240	\$57,427	\$64,000										\$57,427	\$64,000	
R/W	2009	L240	\$897	\$1,000										\$897	\$1,000	
UTIL RELOC														\$0	\$0	
CONST	2009	L240	\$576,067	\$642,000										\$576,067	\$642,000	
OTHER														\$0	\$0	
TOTAL			\$634,391	\$707,000		\$0	\$0		\$0	\$0		\$0	\$0	\$634,391	\$707,000	

AMENDED PROGRAM STATUS

KEY NUMBER:		OJECT NAME: Region 2 Illumination & ITS Improvements														CARRY OVER?
WORK PHASE	YEAR	1st FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	2nd FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	3rd FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	4th FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	TOTAL FEDERAL	PROJECT TOTAL	
PLAN														\$0	\$0	
PRELIM ENG	2006	L250	\$224,325	\$250,000	S010		\$136,000							\$224,325	\$386,000	
R/W	2009	L240	\$3,589	\$4,000										\$3,589	\$4,000	
UTIL RELOC														\$0	\$0	
CONST	2010	L240	\$1,610,205	\$1,794,500	S010		\$1,229,890							\$1,610,205	\$3,024,390	
OTHER														\$0	\$0	
TOTAL			\$1,838,119	\$2,048,500		\$0	\$1,365,890		\$0	\$0		\$0	\$0	\$1,838,119	\$3,414,390	

KEY NUMBER:		OJECT NAME: Region 2 CCTV Project														CARRY OVER?
WORK PHASE	YEAR	1st FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	2nd FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	3rd FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	4th FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	TOTAL FEDERAL	PROJECT TOTAL	
PLAN														\$0	\$0	
PRELIM ENG	2007	L240	\$57,427	\$64,000										\$57,427	\$64,000	
R/W	2009	L240	\$897	\$1,000										\$897	\$1,000	
UTIL RELOC			\$0											\$0	\$0	
CONST	2009	L240	\$480,504	\$535,500										\$480,504	\$535,500	
OTHER														\$0	\$0	
TOTAL			\$538,829	\$600,500		\$0	\$0		\$0	\$0		\$0	\$0	\$538,829	\$600,500	

FUNDS BEING TRANSFERRED FROM OTHER KEY NUMBER(S):

KEY NUMBER	WORK PHASE	YEAR	FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	WORK PHASE	YEAR	FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS	WORK PHASE	YEAR	FUND TYPE	FEDERAL DOLLARS	TOTAL DOLLARS

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PART 1 – Section 1 Project Summary Limit: 2 pages**Project Name:** Delta Highway Intelligent Transportation System (DHITS)**Applicant and Project Partners**

Applicant: Lane County; Key Contact: Celia Barry, Public Works

Project Partners:

- Oregon Department Of Transportation (ODOT) is playing a major role in design and system operation and has provided crucial support throughout the funding application process. Contact: Doug Spencer, PE, Intelligent Transportation Systems.
- EWEB – Provides the fiber optic network required for the project. Contact: Dan Mulholland, Lane Council of Governments Telecommunications Manager.
- City of Eugene Traffic Engineer Tom Larson, PE provided a letter of support.
- State Representative Nathanson, District 13 has provided a letter of support.

Project Location: The project is located on Delta Highway (County Road # 1740-10), a Lane County principal arterial within the City of Eugene. Improvements will be near the eastern right-of-way of northbound Delta Highway. A Variable Message Sign (VMS) will be located just south of Goodpasture Island Road, with two supporting sensors located north of this location. Specifically, the VMS will be on a sign bridge constructed near milepost 1.40. Pole mounted radar sensors will be installed on the eastern-most shoulder of northbound Delta Highway at approximately milepost 0.50 and milepost 1.05 (the specific location of the sensors is to be determined). A pole mounted camera is proposed to be located on the west side of Delta Highway, near the VMS sign location.

Project Description: The project will address ongoing and increasingly unsafe congestion problems on Delta Highway at and near the Beltline Highway interchange. Traffic volumes have exceeded capacity on the Beltline bridges that cross the Willamette River, leading to slowed traffic during peak traffic periods. The result is the formation of queues on the ramps at Delta Highway that routinely extend onto mainline Delta Highway and reduce high volume traffic flow to a near stand-still. The combination of high volumes, high speeds, and queuing leads to sudden congestion and numerous rear-end collisions. Of 309 collisions that occurred for the years 2002 to 2006, according to ODOT's Crash Analysis and Reporting Unit, 239 were rear-end collisions (north and southbound traffic). This represents 78% of all crashes for the five-year period.

The system would include an automated VMS with traffic speed detection control, 24-hour traffic counting and monitoring, data transmission, and a fiber optic network. The system would use radar to detect traffic volume and speed, and communicate with the VMS being installed on Beltline Highway just west of River Road. The VMS would be triggered by defined travel speeds via two radar sensors, providing real-time motor travel information about congestion on both Delta and Beltline Highways. This will alert motorists to congestion ahead, slowing traffic and allowing the option to choose alternate routes. A closed-circuit television camera will also monitor traffic and provide live video to the ODOT traffic operation centers in Salem and Glenwood, and to travelers using ODOT's Tripcheck.com.

The system will allow ODOT and Lane County to not only reduce congestion and improve safety on both Beltline and Delta Highways, but could improve coordination and response times to disasters and other emergencies. The VMS could be used for communications about accidents and Amber Alerts. It will also provide accurate 24-hour traffic counts that can be used for traffic impact analysis, long range transportation planning, and regional corridor studies and improvements planning.

The multi-functionality and intercommunication of two VMS systems make this an excellent candidate for an innovative demonstration project.

Project Costs	Amount
1 Project Administration	\$30,000
2 Preliminary Engineering	\$91,000
3 Right-Of-Way	\$15,000
4 Construction Engineering	\$492,590
Construction, Other (Software, equipment, service	
5 contract, etc.)	\$361,500
Sub-Total	\$854,090
Project Contingency (20% of Construction)	\$170,818
6 Total Construction	\$1,024,908
Construction Engineering / Project Management	
7 (20%)	\$204,982
8 Project Evaluation	\$25,000
PROJECT GRAND TOTAL	\$1,390,890

Certification Statement:

I certify that Lane County, by **Board Order 08-6-25-10**, supports the proposed project, has the legal authority to pledge matching funds, and has the legal authority to apply for project funds. I further certify that any proposed matching funds are available or will be available for the proposed project. I understand that this is not a grant application, that it is a request for reimbursement through the federal aid system, and that all federal rules for contracting, auditing, and payment will apply to this project.

Signature

Date

**Printed
Name**

Jeff Spartz

Title

Lane County Administrator