

# I-84: Kamela – La Grande 2<sup>nd</sup> Street Project

## also known as "K-2"

46V-018

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	Title Sheet
1A	Index Of Sheets Cont.

STATE OF OREGON  
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED PROJECT

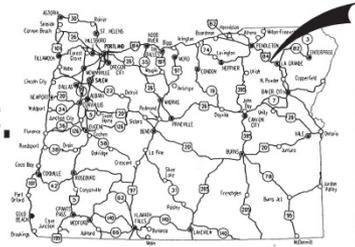
Grading, Drainage, Structures, Paving, Signing, & Illumination

### FFO I-84 KAMELA INTCHG - 2ND ST U'XING (LA GRANDE) SEC.

OLD OREGON TRAIL HIGHWAY

UNION COUNTY

MARCH 2013



Overall Length Of Project - 14.50 Miles

**BEGINNING OF CONTRACT PROJECT**

**IM-STP-S006(126)**

**STA. 255+95 (M.P. 245.85)**

PROSPECTIVE MATERIAL SOURCE  
(HWY. 006 M.P. 237.98)

**BEGINNING OF PROJECT**  
**IM-STP-S006(126)**

**STA. 261+12 (M.P. 245.95)**

**END OF PROJECT**  
**IM-STP-S006(126)**

**STA. "EB2" 101+71 (M.P. 260.45)**

PROSPECTIVE MATERIAL SOURCE  
& PROSPECTIVE DISPOSAL SITE  
(HWY. 006 M.P. 259.23)

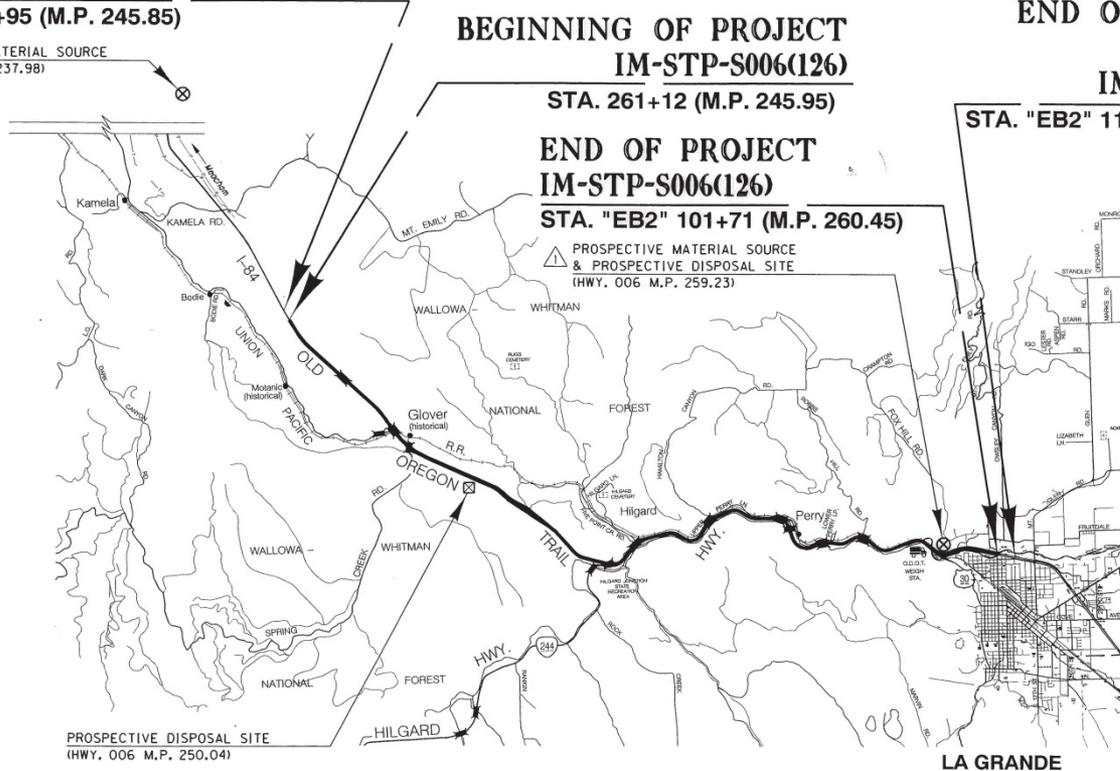
**END OF CONTRACT PROJECT**  
**IM-STP-S006(126)**

**STA. "EB2" 113+31 (M.P. 260.67)**

**ATTENTION:**  
Oregon Law Requires You To Follow Rules Adopted By The Oregon Utility Notification Center. Those Rules Are Set Forth In OAR 952-001-0010 Through OAR 952-001-0090. You May Obtain Copies Of The Rules By Calling The Center - Notes: The Telephone Number For The Oregon Utility Center Is (503) 232-1987.

LET'S ALL WORK TOGETHER TO MAKE THIS JOB SAFE

T. 2 S., R. 36E, 37E, & 38E., W.M.



PROSPECTIVE DISPOSAL SITE  
(HWY. 006 M.P. 250.04)

**OREGON TRANSPORTATION COMMISSION**  
Pat Egan CHAIR  
David Lohman COMMISSIONER  
Mary F. Olson COMMISSIONER  
Mark Frohnmayer COMMISSIONER  
Tammy Bonney COMMISSIONER  
Matthew L. Garrett DIRECTOR OF TRANSPORTATION

These plans were developed using ODOT design standards. Exceptions to these standards, if any, have been submitted and approved by the ODOT Chief Engineer or their delegated authority.

Approving Authority: *Steven A. Davis*  
Steven A. Davis, Reg 5 Tech Center Mgr.

*Am. ny*  
Concurrence by ODOT Chief Engineer

REVISIONS	
△	Revised 2-21-13 Added Prospective Material Source

**FFO I-84 KAMELA INTCHG - 2ND ST U'XING (LA GRANDE) SEC.**  
OLD OREGON TRAIL HIGHWAY  
UNION COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	IM-STP-S006(126)	1



1.000.1.00

## **I-84: Kamela – La Grande 2<sup>nd</sup> Street Project**

- Contractor: Oregon Mainline Paving –based out of McMinnville, OR
- \$47 million, four-year project: 2013-2016
- Project limits: Kamela Exit 246 to La Grande Second Street overcrossing at MP 260
- Partial funds through Oregon Jobs and Transportation Act.

# **I-84: Kamela – La Grande 2<sup>nd</sup> Street Project**

## **Project Scope**

- Resurface eastbound and westbound freeways
- Repair seven bridges
- Upgrade median barriers
- Rock fall mitigation
- Upgrade truck chain-up areas
- Add third westbound truck lane at Spring Creek grade (MP 247).

## **I-84: Kamela – La Grande 2<sup>nd</sup> Street Project**

- The project area is known for its steep inclines, sharp curves and challenging winter conditions.
- Placement of concrete in the slow lane will greatly improve freeway surface conditions as the asphalt pavement takes a beating in wintertime due to heavy (chained-up) truck traffic.
- Improving areas for trucks to install or remove chains is a key focus for eastern Oregon mountain passes.

# Four Year Construction Plan

## 2013 Construction activities

- Bridge repairs
- Rock fall mitigation near MP 259
- Truck chain-up area upgrades and prep work for westbound truck climbing lane at Spring Creek grade near MP 247

## 2014 Construction activities

- Bridge repairs-continue
- Resurface freeways: La Grande – Hilgard State Park (MP 260-252)
- Median barrier upgrades
- Bicycle detour and closure of WB on-ramp at Exit 259

## 2015 Construction activities

- Resurface freeways: Hilgard St. Park – Kamela Exit (MP 252-246)
- Median barrier upgrades
- Bicycle detour continues
- Complete construction of extra truck lane at Spring Creek grade

## 2016 Construction activities

- Seeding / mulching
- Other misc. off-highway work

## 2013 Construction activities

- Rock fall mitigation near MP 259



*The rock bench above the freeway was blasted, excavated and reshaped to include rock fall storage space, a collection berm and expanded room for maintenance activities to clear accumulated debris.*

## 2013 Construction activities

- Spring Creek Grade truck climbing lane  
(Work began 2013, will be completed in 2015)

Spring Creek grade is a bottleneck for traffic during icy condition when trucks are moving slowly up the incline. The third lane will help keep traffic moving, much like the extra eastbound climbing lane on I-84's Cabbage Hill.



*Excavation work in 2013 for truck climbing lane and truck chain up areas.*

## 2014 Construction activities

- Bridge repairs

Bridge repairs/upgrades constructed at the Glover Creek Bridge, Spring Creek bridges, Five Points Bridge, Grande Ronde River bridges and Lower Perry Bridge. Some repair work was completed in 2013.



*Six bridges are receiving deck upgrades.*

## 2014 Construction activities

- Resurface eastbound and westbound freeways: La Grande – Hilgard St. Park (MP 260-252)



*Over 800 miles of rebar will be placed by hand in 2014 and 2015 for the 16 miles of eastbound and westbound concrete lanes, plus new truck lane at Spring Creek grade.*

## 2014 Construction activities

- Resurface eastbound and westbound freeways: La Grande – Hilgard St. Park (MP 260-252)

*Some concrete surfaces received hands-on treatment*



*Single lane eastbound and westbound traffic rides on the newly resurfaced westbound freeway (left) as crews construct eight miles of concrete in the eastbound slow lane (right).*

## 2014 Construction activities

- Resurface eastbound and westbound freeways: La Grande – Hilgard St. Park (MP 260-252)

First use in the nation of machine guidance for controlling the line and grade of a concrete paving train (multiple paving units). Survey instrument control incorporated 3D computer modeling and GPS to mapped the terrain and direct the paving equipment.



*Lazar accurate survey tools, GPS and 3D computer modeling guided paving equipment.*

## 2014 Construction activities

- Resurface eastbound and westbound freeways: La Grande – Hilgard St. Park (MP 260-252)

In 2015, the section between Hilgard St. Park and Kamela Exit 246 will receive the same treatment.



*New concrete in the eastbound slow lane cures under the August skies. The fast lane awaits the placement of several inches of new asphalt.*

## 2014 Construction activities

- I-84 Bicycle Detour campaign

With narrow lanes boxed in by concrete barriers and guardrail, no shoulders and 5,000 trucks a day, the route between Pendleton and La Grande is closed to bicycle traffic.



*Bike detour signs are located at key locations along the route.*

# 2014 Construction activities

- I-84 Bicycle Detour campaign

- A vigorous campaign to advise visitors of the bicycle detour options was launched early on, using detour signage, posters and brochures.

- Posters and brochures are displayed at rest areas and bike shops, and were sent to numerous bicycle and tourist advocacy groups.

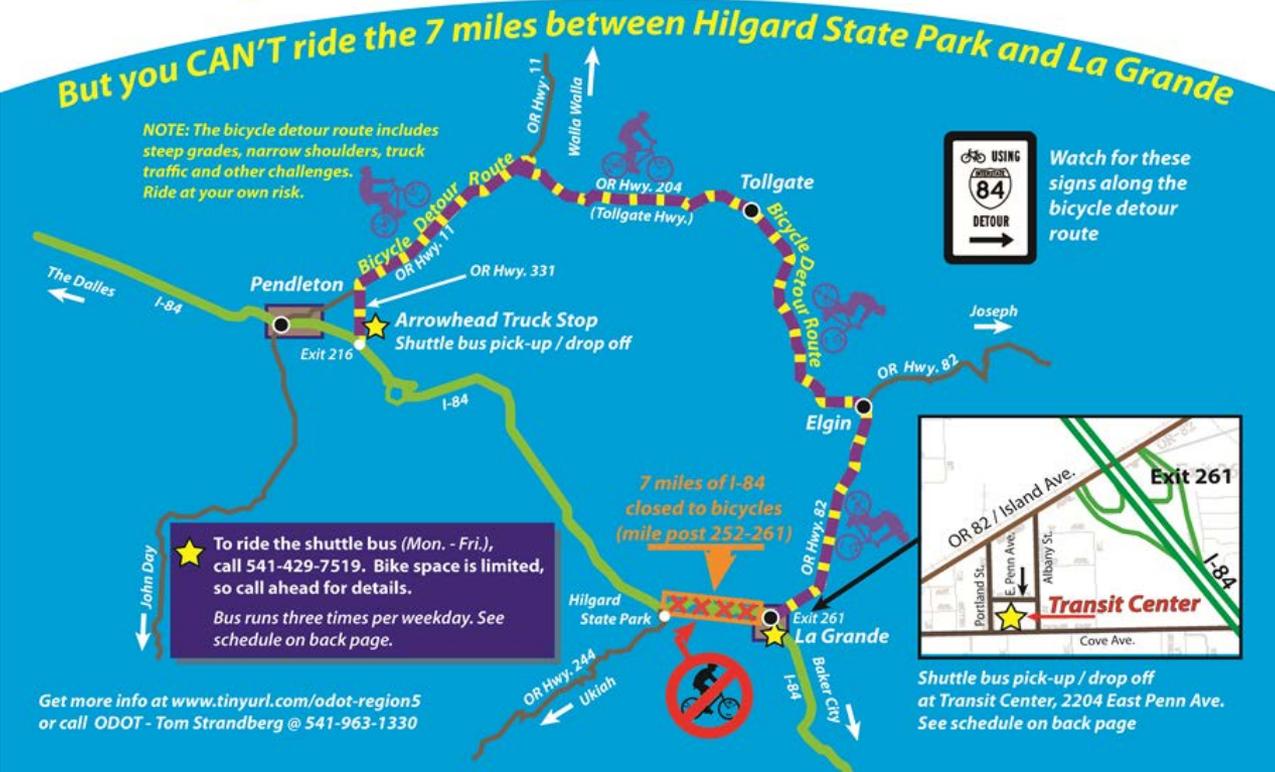
- Social media helped spread the word.

**I-84 CLOSED TO BICYCLES: between Pendleton and La Grande**

**You can** 1. Ride the **BICYCLE DETOUR ROUTE** , or  
2. Take the **FREE SHUTTLE BUS**  (Mon.-Fri.)

**But you CAN'T ride the 7 miles between Hilgard State Park and La Grande**

*NOTE: The bicycle detour route includes steep grades, narrow shoulders, truck traffic and other challenges. Ride at your own risk.*



**Watch for these signs along the bicycle detour route**

**To ride the shuttle bus (Mon. - Fri.), call 541-429-7519. Bike space is limited, so call ahead for details. Bus runs three times per weekday. See schedule on back page.**

Get more info at [www.tinyurl.com/odot-region5](http://www.tinyurl.com/odot-region5) or call ODOT - Tom Strandberg @ 541-963-1330

Shuttle bus pick-up / drop off at Transit Center, 2204 East Penn Ave. See schedule on back page

*Bicycle Detour brochures list the bicycle detour route and free shuttle bus information.*

## 2014 Construction activities

- I-84 Bicycle Detour campaign

The bicycle detour brochures are available in weatherproof holders mounted on bike detour sign posts.



*A short video highlighting why the route is closed to bicyclists has been shared with bike advocates and posted on the ODOT Web [www.tinyurl.com/odot-region5](http://www.tinyurl.com/odot-region5).*

## 2014 Construction activities

- Closure of WB on-ramp at Exit 259

- ❑ Due to limited merging space, the westbound on ramp at Exit 259 (west end of La Grande) is closed.
- ❑ Although numerous construction signs identify the closure, 24/7 flaggers had to be stationed as 50-100 travelers each day continue to venturing towards the blocked ramps.
- ❑ During college graduation day, over 600 travelers were turned around at the closure site. Many were following GPS directions and ignoring “road closed ahead” signs.



# 2015 Construction activities

- Construct 3<sup>rd</sup> westbound lane for trucks at Spring Creek grade (MP 247).

Work that began in 2013 on the new lane will be completed in 2015.



*Winter conditions near Spring Creek grade.*



*The new truck lane at Spring Creek grade will provide room for slow moving trucks, similar to extra lane on Cabbage Hill, located on the Pendleton side of the Blue Mountain crossing.*

# I-84: Kamela – La Grande 2<sup>nd</sup> Street Project

## Project facts and figures

When completed, the K-2 Project will have...

- Used:
  - 180,000 tons of asphalt
  - 65,000 cubic yards of concrete pavement
  - Over 800 miles of rebar
- Installed:
  - 10 miles of guardrail
  - 10 miles of concrete barrier
- Repaired or resurfaced seven bridges
- Installed illumination systems for 5 chain up areas
- Been first in nation for using machine guidance for controlling the line and grade of a concrete paving train (multiple paving units)



*One of the many stacks of rebar delivered for inspection.*