W. 3. F. 1.

Memorandum Date: October 27, 2008
Order Date: November 12, 2008

TO: Board of County Commissioners

DEPARTMENT: Public Works

PRESENTED BY: Frank Simas
Real Property Manager

AGENDA ITEM TITLE: IN THE MATTER OF REMOVING THE LOAD POSTING FROM THE ROW RIVER ROAD BRIDGE (STATE BRIDGE NO. 39C224) LOCATED AT MP 16.64

I. MOTION

THAT THE ORDER BE APPROVED AUTHORIZING THE REMOVAL OF THE LOAD POSTING FROM THE ROW RIVER ROAD BRIDGE LOCATED AT MP 16.64.

II. AGENDA ITEM SUMMARY

Construction of a new bridge on Row River Road located at MP 16.64 was completed in the Spring of 2008, and a load rating for the new bridge was completed by OTAK, Inc. in August, 2008 and it indicates the load posting is no longer necessary.

III. BACKGROUND/IMPLICATIONS OF ACTION

A. Board Action and Other History

Row River Road runs easterly from Cottage Grove, 19.78 miles to Brice Creek Road near Disston. Said bridge crosses the Row River at MP 16.64 approximately 1.60 miles east of Culp Creek.

Per Order 04-3-31-12, the Board imposed a load posting for this bridge of 19 tons, 27 tons and 27 tons based upon the recommendation of the County's bridge consultant, OTAK, Inc. OTAK's recommendation was based upon observed defects in the load-carrying members of the bridge due to shear cracking.

Per Order 06-11-21-5, the Board awarded a contract to Carter & Company, Inc. for construction of a new bridge over the Row River on Row River Road at MP 16.64, Contract 06/07-03.

The new bridge construction by Carter & Company, Inc. was completed in the Spring of 2008 using OTIA III funds and a new load rating report conducted by OTAK, Inc. recommends the posted load limits be removed.

B. Policy Issues

Under ORS 810.030, a road authority may impose restrictions on its highways to protect the highway or a section of highway from being unduly damaged and to protect the interest and safety of the general public.

C. Board Goals

This action meets Goal 5 of the adopted Lane County Transportation System Plan (TSP): To promote a safe, functional, and well-maintained bridge network in Lane County.

D. Financial and/or Resource Considerations

There will be no significant financial impact to the County.

E. Analysis

The load-posted bridge has since been replaced by a new bridge designed and built to carry today's legal and permitted loads. OTAK, Inc. has submitted a load rating report for the new bridge showing that load posting is no longer necessary.

F. Alternatives/Options

1. Move to approve the attached Order recommending removal of the load posting.

2. Direct Staff otherwise.

IV. TIMING/IMPLEMENTATION

Upon approval of the Order, staff will remove the load posting for the Row River Road Bridge located at MP 16.64.

V. RECOMMENDATION

Option 1.

VI. ATTACHMENTS

Attachment 1 – Page 1 of 8/13/08 OTAK, Inc. Load Rating Summary Report

OREGON D.O.T. BRIDGE SECTION

TIER-2 LOAD RATING SUMMARY REPORT (PAGE 1)

Latest Revision 4/8/2008

REGISTERED PROFESSIONAL ENGINEER
74707PE
OREGON
June 11, 2008
STEPHEN J. WILSON
EXPIRES: 6/30/2010

BRIDGE DATA...

BRIDGE #: 20354 NBI FEATURE: Row River
BRIDGE NAME: Row River
HIGHWAY NAME: Row River Road HIGHWAY #: C1598
REGION: 2 DIST: 05 COUNTY: Lane MILEPOST: 16.64

YEAR BUILT: 2007 DESIGN LOADING: HL93 OWNER: Lane County
SPAN DESCR: 3 Spans - 20'-0" 15" PCPS Slab - 110'-0" PCPS BT60 - 20'-0" PCPS 15" Slab
OTHER DESCR:

LOAD RATING ENGINEER DATA...

RATING DATE: 6/13/08 FIRM: Okal, Inc. LOAD RATER: Andrew Smith CALCULATION BOOK: n/a

LATEST INSPECTION DATA...

INSP. DATE: 7/16/08 ADT: 2,000 ADTT: 100 YEAR of ADT (2 digits): 08 A.C. DEPTH, INCHES: n/a

CONDITION RATINGS --->	DECK:	SUPERSTR.:	SUBSTR.:	IMPACT ASSESSMENT (Elem. 325):	WEAR SURFACE (Elem. 326)
	8	8	8	CS1	CS1

RATING DATA...

LRFR FACTORS: IMPACT 1+I: 1.33 Ypc 1.25 Yow 1.25
LRFR RATINGS FOR N.B.I.: INVENTORY (Item 66): Tons 56.2 OPERATING (Item 64): Tons 72.8
SECTIONS EVALUATED: 66 COMMENTS:

NBI STATUS ITEMS:

Operational Status (Item 41): A
Bridge Posting Status (Item 70): 5
Temporary Status (Item 103):

LOAD:	γL	1st rating control: R.F.	Limit State	Force Type	Φ	CONTROLLING... MEMBER	SPAN	LOCATION	2nd rating control: R.F.	Limit State	Force Type	Φ	CONTROLLING... MEMBER	SPAN	LOCATION
DESIGN & LEGAL VEHICLES															
HL93 (INVENTORY)	1.750	1.56	St1	+M	1.000	PS Ext. Girder	2 of 3	0.5L	1.58	St1	+M	1.000	PS Ext. Girder	2 of 3	0.45L
TYPE 3 (50K)	1.400	4.69	St1	+M	1.000	PS Ext. Girder	2 of 3	0.5L	4.74	St1	+M	1.000	PS Ext. Girder	2 of 3	0.45L
TYPE 3S2 (80K)	1.400	3.80	St1	+M	1.000	PS Ext. Girder	2 of 3	0.45L	3.85	St1	+M	1.000	PS Ext. Girder	2 of 3	0.5L
TYPE 3-3 (80K)	1.400	3.72	St1	+M	1.000	PS Ext. Girder	2 of 3	0.5L	3.75	St1	+M	1.000	PS Ext. Girder	2 of 3	0.45L
TYPE 3-3 & LEGAL LANE	1.400														
TYPE 3-3 TRAIN & LEGAL LANE	1.400														
SU4 TRUCK (54K)	1.400	4.18	St1	+M	1.000	PS Ext. Girder	1 of 3	0.45L	4.19	St1	+M	1.000	PS Ext. Girder	1 of 3	0.4L
SU5 TRUCK (62K)	1.400	3.77	St1	+M	1.000	PS Ext. Girder	2 of 3	0.5L	3.81	St1	+M	1.000	PS Ext. Girder	2 of 3	0.45L
SU6 TRUCK (69.5K)	1.400	3.38	St1	+M	1.000	PS Ext. Girder	2 of 3	0.5L	3.42	St1	+M	1.000	PS Ext. Girder	2 of 3	0.45L
SU7 TRUCK (77.5K)	1.400	3.07	St1	+M	1.000	PS Ext. Girder	2 of 3	0.5L	3.11	St1	+M	1.000	PS Ext. Girder	2 of 3	0.45L
CTP VEHICLE, MULTI-LANE															
OR-CTP-2A (105.5K)	1.370	3.36	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	3.37	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L
OR-CTP-2B (105.5K)	1.370	3.68	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	3.73	St2	+M	1.000	PS Ext. Girder	2 of 3	0.4L
OR-CTP-3 (98K)	1.400	2.85	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	2.86	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L
STP VEHICLE, MULTI-LANE															
OR-STP-3(120.5K)	1.280	3.00	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	3.04	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L
OR-STP-4A (99K)	1.400	2.72	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L	2.73	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L
OR-STP-4B (185K)	1.100	3.12	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	3.12	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L
OR-STP-4C (150.5K)	1.100	2.88	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	2.93	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L
OR-STP-4D (162.5K)	1.100	2.40	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L	2.43	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L
OR-STP-4E (258K)	1.100	2.56	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L	2.57	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L
OR-STP-5BW (204K)	1.100	2.70	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	2.72	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L
SPECIAL	1.400														
STP VEHICLE, SINGLE LANE W/ESCORT															
OR-STP-3(120.5K)	1.150	4.13	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	4.19	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L
OR-STP-4A (99K)	1.150	4.10	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L	4.11	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L
OR-STP-4B (185K)	1.150	3.70	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	3.70	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L
OR-STP-4C (150.5K)	1.150	3.41	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	3.47	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L
OR-STP-4D (162.5K)	1.150	2.84	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L	2.88	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L
OR-STP-4E (258K)	1.150	3.02	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L	3.04	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L
OR-STP-5BW (204K)	1.150	3.20	St2	+M	1.000	PS Ext. Girder	2 of 3	0.45L	3.22	St2	+M	1.000	PS Ext. Girder	2 of 3	0.5L
SPECIAL	1.150														

ATTACHMENT 1

IN THE BOARD OF COUNTY COMMISSIONERS
OF LANE COUNTY, OREGON

ORDER NO.

(IN THE MATTER OF REMOVING THE LOAD POSTING FROM THE ROW RIVER ROAD BRIDGE (STATE BRIDGE ID NO. 39C224) LOCATED AT MP 16.64.

WHEREAS, pursuant to ORS 810.030, the County may impose limits on any weight or dimensions of any vehicle or combination of vehicles to protect any highway or section of highway from being unduly damaged; and

WHEREAS, as a result of a bridge assessment, a load posting was installed on the Row River Road Bridge at MP 16.64 pursuant to Order 04-3-31-12; and

WHEREAS, the bridge at MP 16.64 was replaced using OTIA III funds with the construction work completed in the Spring of 2008; and

WHEREAS, a bridge inspection report submitted by OTAK, Inc. in August, 2008, indicates that a load posting is no longer needed;

NOW THEREFORE

IT IS ORDERED, that the load posting be removed from the Row River Road Bridge (State Bridge ID No. 39C224) located at MP 16.64.

DATED this _____ day of _____, 2008.

APPROVED AS TO FORM
Date: 10-30-08 Lane County
OFFICE OF LEGAL COUNSEL

_____
Chair,
Board of County Commissioners