

CLARK COUNTY STAFF REPORT

DEPARTMENT: Public Works

DATE: Dec. 18, 2018

REQUESTED ACTION: Adopt an ordinance setting load limits for specific truck configurations on seven county bridges.

Consent Hearing County Manager

BACKGROUND

On Nov. 15, 2013, the Federal Highway Administration sent out a directive requiring local agencies to update load ratings on all National Bridge Inventory bridges to include new truck configurations called special hauling vehicles and some emergency vehicles. The directive provided criteria for dividing the bridges into two groups with the first group being the highest priority.

Public Works hired an engineering consultant to update the load ratings for the first group which included eight bridges. Based on the evaluations the county is required by 23 CFR 650.313(c) to restrict certain truck loading configurations on seven county bridges.

The following indicates the seven bridges that need to be load restricted for different truck configurations:

- Bridge No. 6, Gibbons Creek (Southeast Evergreen Way over Gibbons Creek, County Road Atlas Page 4)
- Bridge No. 96, Rock Creek (Northeast Rock Creek Road over Rock Creek, County Road Atlas Page 46)
- Bridge No. 168, Matney (Northeast 68th Street over Matney Creek, County Road Atlas Page 20)
- Bridge No. 213, Morgan (Northeast 182nd Avenue over Morgan Creek, County Road Atlas Page 29)
- Bridge No. 217, Venersborg (Northeast 209th Street over Salmon Creek, County Road Atlas Page 38)
- Bridge #222, None (NE 167th Ave over Mud Creek, County Atlas Pg 28), and
- Bridge No. 299, Landon (Northeast CC Landon Rd over Yacolt Creek, County Road Atlas Page 48)

Please see the attachment for various truck configurations and the limits that will be placed on each bridge. Once the restrictions are adopted, Public Works will fabricate signs and post the bridges.

Clark County's Bridge Program will continue to evaluate its remaining bridges.

COUNCIL POLICY IMPLICATIONS

None

ADMINISTRATIVE POLICY IMPLICATIONS

In accordance with the Washington State Department of Transportation, Bridge Inspection Manual,

PW18-131

the county must post the bridge restrictions within 90 days of receiving critical findings related to load ratings.

COMMUNITY OUTREACH

Clark County will send out targeted information to the trucking community and post information on the county website.

BUDGET IMPLICATIONS

YES	NO	
X		Action falls within existing budget capacity.
	X	Action falls within existing budget capacity but requires a change of purpose within existing appropriation
	X	Additional budget capacity is necessary and will be requested at the next supplemental. If YES, please complete the budget impact statement. If YES, this action will be referred to the county council with a recommendation from the county manager.

BUDGET DETAILS

Local Fund Dollar Amount	NA
Grant Fund Dollar Amount	NA
Account	County Road Fund
Company Name	NA


DISTRIBUTION:

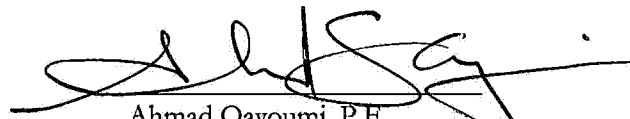
Council staff will post all staff reports to the county website, www.clark.wa.gov/council-meetings

Please return one signed original version of the staff report and ordinance to Public Works, attention Matt Griswold.

Attachments:

- Ordinance
- Appendix A - Truck configuration document
- Notice of Public Hearing


 Carolyn Heniges, P.E.
 Road Maintenance & Safety Division Manager
 Division Manager


 Ahmad Qayoumi, P.E.
 Public Works Director/County Engineer

Primary Staff Contact: Carolyn Heniges, Ext. 1626


APPROVED:
 CLARK COUNTY, WASHINGTON
 CLARK COUNTY COUNCIL

DATE: Dec. 18, 2018

SR#

ORDINANCE NO. 2018-12-62

An ordinance to establish load limits upon certain bridges in Clark County.

WHEREAS, RCW 47.48.010 grants local jurisdictions the authority to restrict maximum loading on County owned bridges based on load rating evaluations and other engineering studies;

WHEREAS, the American Association of State Highway Transportation Officials (AASHTO) created six (6) new truck loading configurations that require engineering evaluation on individual bridges to determine maximum loading that the bridge can sustain without restriction;

WHEREAS, the AASHTO designates truck configurations required to be evaluated by a bridge load rating evaluation and have designated the following acronyms: Emergency Vehicles (EV2, EV3); Special Hauling Vehicles (SU3, SU4, SU5, SU6, SU7) and Notional Load (NRL) to represent these truck loading configurations;

WHEREAS, the Clark County Department of Public Works hired a bridge engineer to evaluate an initial batch of County bridges under the six (6) bridge load configurations;

WHEREAS, the bridge engineer determined that placing bridge the load limits noted below would reduce overall damage to the bridges and extend their life, thereby protecting the public's investment:

- Bridge #6 Gibbons Creek [SE Evergreen Way over Gibbons Creek, County Atlas Pg 4]:
 - EV3 29 Tons(T)
- Bridge #96 Rock Creek [Rock Creek Rd over Rock Creek, County Atlas Pg 46],
 - EV3 34 T
- Bridge # 168 Matney [NE 68th St over Matney Creek, County Atlas Pg 20]:
 - SU4 19 T
 - SU5 19 T
 - SU6 18 T
 - SU7 19 T
 - EV2 20 T
 - EV3 14 T
- Bridge # 213 Morgan [NE 182nd Ave over Morgan Creek, County Atlas Pg 29]:
 - SU4 19 T
 - SU5 19 T
 - SU6 18 T
 - SU7 19 T
- Bridge #217 Venersborg [NE 209th St over Salmon Creek, County Atlas Pg 38]:
 - SU7 33 T
 - EV3 25 T
- Bridge #222 None [NE 167th Ave over Mud Creek, County Atlas Pg 28]:
 - SU5 26T
 - SU6 26T
 - SU7 28T
- Bridge #299 Landon [CC Landon Rd over Yacolt Creek, County Atlas Pg 48]:
 - SU6 30 T
 - SU7 33 T

WHEREAS, the County engineer is required by FHWA and WSDOT to post restrictions on truck loads on the above bridges in accordance with their respective load limitations in accordance with 23 CFR 650.313(e) and RCW 47.48.010 within 90 days of receiving critical findings related to their respective bridge load rating evaluations; and

WHEREAS, the County Council is considering this matter at regularly scheduled hearing and finds that adoption of the proposed ordinance will further public health, safety and welfare;

NOW THEREFORE, it is ordered as follows:

Section 1. Amendatory. Sec. 7 of Ord. 1991-07-13, codified as CCC 10.08A.070 is hereby amended to read:

10.08A.070 Emergency restrictions—Maximum gross load and/or speed.

Notwithstanding the provisions of Sections 10.08A.040 and 10.08A.050, whenever any county road by reason of rain, snow, climatic or other conditions will be seriously damaged or destroyed unless the permissible weight and/or speed of vehicles traveling thereon is reduced, the ((~~director of public services~~)) County Engineer may enforce the following restrictions on all county roads throughout Clark County:

(1) Weight.

(a) All motor vehicles will be limited to fifty percent (50%) of the gross vehicle weight authorized pursuant to RCW 46.44.041 as amended, not to exceed three hundred pounds per inch of manufacturer-rated tire width for any axle; and

(b) All loads must be evenly distributed.

(2) Speed limits may be reduced as necessary to minimize road damage.

(3) The following weight restrictions apply to the following bridges:

(a) Bridge #6 Gibbons Creek [SE Evergreen Way over Gibbons Creek, County Atlas Pg 4]:

EV3 29 Tons

(b) Bridge #96 Rock Creek [Rock Creek Rd over Rock Creek, County Atlas Pg 46].

EV3 34 Tons

(c) Bridge # 168 Matney [NE 68th St over Matney Creek, County Atlas Pg 20]:

SU4 19 Tons

SU5 19 Tons

SU6 18 Tons

SU7 19 Tons

EV2 20 Tons

EV3 14 Tons

(d) Bridge # 213 Morgan [NE 182nd Ave over Morgan Creek, County Atlas Pg 29]:

SU4 19 Tons

SU5 19 Tons

SU6 18 Tons

SU7 19 Tons

(e) Bridge #217 Venersborg [NE 209th St over Salmon Creek, County Atlas Pg 38]:

SU7 33 Tons

EV3 25 Tons

(f) Bridge #222 None [NE 167th Ave over Mud Creek, County Atlas Pg 28]:

SU5 26T

SU6 26T

SU7 28T

(g) Bridge #299 Landon [CC Landon Rd over Yacolt Creek, County Atlas Pg 48]:

SU6 30 Tons

SU7 33 Tons

The SU and EV abbreviations above are AASHTO designations for certain vehicle types.

Section 2. Enforcement. The Washington State Patrol is requested to enforce the provisions of this ordinance. The Sheriff of Clark County is directed to enforce the provisions of this Ordinance. The County Engineer is directed to erect and maintain the necessary signs in accordance with the Uniform Standards adopted by Washington State Department of Transportation.

Section 3. Effective Date. This ordinance shall be effective on the 10th day following adoption.

Section 4. Instructions to Clerk. The Clerk of the Council shall:

- (1) Record a copy of this Ordinance with the Clark County Auditor; and
- (2) Cause notice of adoption of this Ordinance to be published forthwith, pursuant to Clark County Code 1.02.140.
- (3) Provide a copy of this Ordinance to Code Publishing with instructions to publish.

Section 5. Direction to Code Reviser. Sections 2-6 are not subject to codification.

Section 6. Roll Call Vote. The following persons voted in favor of adopting the above ordinance,

Jeanne Stewart, Julie Olson, Marc Boldt,

Eileen Quiring,

The following persons voted in opposition to the adoption of the above ordinance,

ADOPTED on this 18th day of Dec., 2011

Attest:

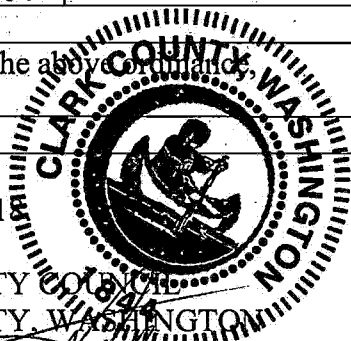
[Signature]

Clerk to the Council

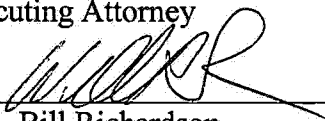
CLARK COUNTY COUNCIL
CLARK COUNTY, WASHINGTON

[Signature]

Marc Boldt, Chair



Approved as to Form Only:
ANTHONY GOLIK
Prosecuting Attorney

By: 
Bill Richardson
Deputy Prosecuting Attorney

Jeanne E. Stewart, Councilor

Julie Olson, Councilor

John Blom, Councilor

Eileen Quiring, Councilor

Exhibit A – Example Truck Configurations

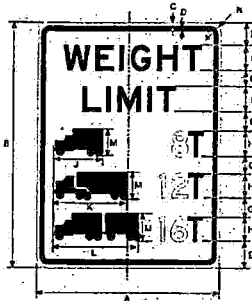


Figure 1 - AASHTO Truck Types – (AASHTO 3, AASHTO 3S2 and AASHTO 3-3)

EMERGENCY VEHICLE AXLE WEIGHT LIMIT	
SINGLE	13 T
TANDEM	17 T

Figure 2 – Emergency Vehicles (EV1 and EV2)

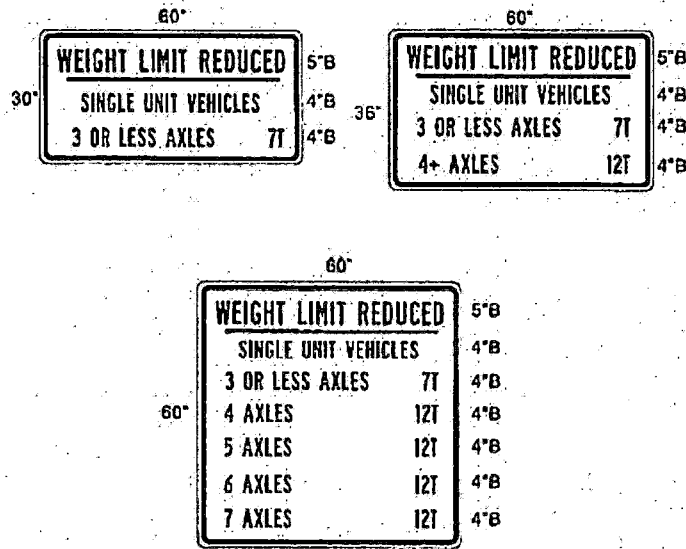


Figure 3 – Typical Load Limit Signs for Special Hauling Vehicles (SU3, SU4, SU5, SU6, and SU7)

Truck Type	Maximum Load (Tons)
AASHTO 1 / Type 3	25
AASHTO 2 / Type 3S2	36
AASHTO 3 / Type 3-3	40
Notional Load / NRL*	40
Single Unit 4 / SU4	27
Single Unit 5 / SU5	31
Single Unit 6 / SU6	35
Single Unit 7 / SU7	39
Emergency Vehicle / Type EV2	28
Emergency Vehicle / Type EV3	43

* encompasses Special Hauling Vehicles (SHVs)

Figure 4 – Maximum Load based on Vehicle Type

NOTICE OF PUBLIC HEARING

The Clark County Council will hold a public hearing at 10 a.m. on Tuesday, the 18th of December, 2018 in the councilors' Hearing Room, Sixth Floor, Public Service Center, 1300 Franklin Street, Vancouver, Wash. to consider:

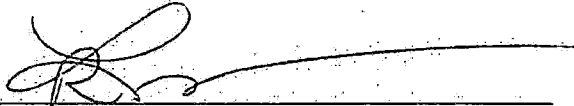
Placing load restrictions for certain trucks on seven (7) county-owned bridges to protect the public's investment and slow deterioration and aging of the structures:

1. Bridge #6 Gibbons Creek [SE Evergreen Way over Gibbons Creek, County Atlas Pg 4],
2. Bridge #96 Rock Creek [Rock Creek Rd over Rock Creek, County Atlas Pg 46],
3. Bridge # 168 Matney [NE 68th St over Matney Creek, County Atlas Pg 20],
4. Bridge # 213 Morgan [NE 182nd Ave over Morgan Creek, County Atlas Pg 29],
5. Bridge #217 Venersborg [NE 209th St over Salmon Creek, County Atlas Pg 38],
6. Bridge #222 None [NE 167th Ave over Mud Creek, County Atlas Pg 28], and
7. Bridge #299 Landon [CC Landon Rd over Yacolt Creek, County Atlas Pg 40]: *AB*

More information concerning this matter may be obtained by contacting Carolyn Heniges, P.E., Road Operations Division Manager at Clark County Public Works, 360-397- 6118 extension 1626, or by going to <http://www.clark.wa.gov/public-works>.

Any person wishing to give testimony regarding this matter should appear at the time, date, and place above stated.

CLARK COUNTY COUNCIL



Clerk of the Board

Approved as to Form Only
ANTHONY F. GOLIK
Prosecuting Attorney

By 
Deputy Prosecuting Attorney

PLEASE PUBLISH: Dec. 6, 2018



For other formats contact the Clark County ADA Program:
Voice (360) 397-2322; Relay 711 or (800) 833-6388
Fax (360) 397-6165; Email ADA@clark.wa.gov