SPECIAL HAULING VEHICLES (SHV) + NEW WEIGHT-RESTRICTION SIGNAGE AT BRIDGES
INFORMATION BRIEF

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Welcome
Questions during the presentation?

• Send your question via the live-chat option
• Email your question to jonathan.mallard@vdot.virginia.gov

Questions will be addressed at the end of the presentation. If we aren’t able to answer a question today, we will get the answer and follow up after the meeting.

All questions and answers will be posted on www.virginiadot.org/trucking.
Advancements in Vehicle Design & What it Means for DOTs

• Vehicles developed to carry heavier legal loads
  • Freight vehicles: special hauling vehicles (SHV)
  • Emergency vehicles (EV)
• VDOT modified bridge design practices in 2007
• SHVs becoming widespread
• FHWA mandates
  • SHV legal weight standards: 23 CFR Part 650, Subpart C
  • EV legal weight standards: (FAST Act) Pub. L. 114-94. Section 1410
Typical Hauling Vehicles

- Four Axles
- Five Axles
- Six Axles
- Seven Axles

Special Hauling Vehicles

- Four Axles
- Five Axles
- Six Axles
- Seven Axles

Emergency Vehicles

- Two Axles
- Three Axles

Heavier and/or more concentrated loads
What VDOT is doing:

• Evaluating all bridges for SHVs and EVs
  • Virginia’s bridge inventory
    ▪ 21,213 bridges
    ▪ 100+ years old to under 1 year
    ▪ Average age 50 years
  • Final deadline for evaluations - Dec. 31, 2022

• Will install weight limit signs where needed, as the need is identified

• Continuing to work with localities
Impacts

• Safety is always VDOT’s top priority

• Industry impacts
  • May need to revise routes to avoid structures/bridges with weight restrictions
    • Resources to identify impacts
    • Truck Web tool

• Possible mitigation
  • Structural upgrades
Examples of Signage

• Signs show familiar icons/visuals
• Drivers distinguish by axle count and gross vehicle weight
• Drivers must obey all weight-restriction signs
Examples of Signage

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- Drivers distinguish by axle count and gross vehicle weight
Signage Reference Sheet

- Available via the VDOT and DMV websites
Ongoing VDOT Activities

- VDOT will identify potential acute impacts to special hauling vehicles and the economy
- VDOT will prioritize bridge structural repairs based on feedback, recognizing limited resources
- VDOT Districts are communicating with local stakeholders about specific impacts
- Installation of new weight-restriction signs begins this fall
Resources

• To learn more about trucks, legal weight for different vehicle types and hauling on Virginia roads, visit www.dmv.virginia.gov/commercial.
• For information regarding VDOT’s efforts and materials used during this discussion, visit www.virginiadot.org/trucking.

• Programmatic Questions
  • Chris Williams, Assistant Division Administrator, Structure and Bridge
    ▪ Christopher.Williams@vdot.virginia.gov
Resources

- [www.virginiadot.org/trucking](http://www.virginiadot.org/trucking)
Resources

- **www.virginiadot.org/trucking**
- Live spreadsheet shows all bridge weight restrictions once signs have been installed

### Weight, Height or Width Restrictions at Bridges and Tunnels

#### Bridges

Various bridges statewide have restrictions on the weight, height, or width of vehicles. Signs posted at the bridge site reflect the restrictions applicable. The most restrictive of these restrictions apply. A live spreadsheet shows all bridge weight restrictions once signs have been installed. It is updated daily.

A map of state-owned bridges with restrictions on height, as well as weight, is available on request at [virginiadot.org](http://www.virginiadot.org). The mapping is updated bi-annually.

#### Table: Bridge Weight Restrictions

| District | Jurisdiction | Route | Route Name | VA Route No. | Fed Route No. | Crossing | Type | Year Built | Year Record (Stat) | Year Record (Fed) | Dock Cond | Super Cond | Sub Cond | Culvert Cond | Freq | Struc. Date | Last Inspected | Weight Posting Status | Single Axle Weight Limit (in tons) | Dual Axle Weight Limit (in tons) | Dual 4-Axle Weight Limit (in tons) | Responsibility | Structure Length (FT) | Structure Width (FT) | Avg Daily Traffic | Road System | Report Date |
|----------|--------------|-------|------------|--------------|---------------|----------|------|-----------|-------------------|-----------------|-----------|------------|---------|-------------|------|------------|----------------|---------------------|--------------------------|--------------------------|----------------|-------------------|------------------|-------------|------------|
| Bristol  | Tazewell     | ASCUE ROAD | 00770 | 6233 | 0016801 | INDIAN CREEK | Bridge | 1932 | 0 | -1 | 5 | 5 | 6 | Y | FO | 7/17/2018 | Posted | 0 | 27 | 40 | VDOT | 53,000,000 | 47,131 | 21 | 283 | Secondary | 10/29/2019 |
| Bristol  | Dickenson    | ROUTE 0018 | 1040 | 0005818 | BRANCH | Bridge | 1941 | 0 | -1 | 5 | 5 | 6 | N | Y | FO | 1/15/1998 | Posted | 0 | 27 | 40 | VDOT | 12,100,000 | 31,149 | 26 | 626 | Primary | 10/29/2019 |
| Bristol  | Wythe        | ROGERSVILLE RD | 00026 | 10314 | 0019536 | GLADE CREEK | Bridge | 1932 | 0 | 1932 | 1930 | 5 | 5 | 6 | N | Y | 3/4/2019 | Posted | 0 | 27 | 40 | VDOT | 22 | 36 | 277 | 10/29 | Primary | 10/29/2019 |
| Bristol  | Lee           | ROUTE 604 | 0402 | 0010679 | BRANCH | Bridge | 1932 | 0 | -1 | 6 | 6 | 5 | N | N | 12/26/2017 | Posted | 0 | 27 | 40 | VDOT | 8,999,999 | 105,530 | 61 | Secondary | 10/29/2019 |
| Bristol  | Washington   | STONEYBROOK ROAD | 00084 | 6220 | 00219122 | BRANCH | Bridge | 1932 | 0 | 1932 | 1930 | 6 | 6 | 5 | N | N | 2/1/2019 | Posted | 0 | 27 | 40 | VDOT | 13 | 5 | 290 | 10/29 | Secondary | 10/29/2019 |
| Bristol  | Washington   | CHESTNUT MTN. RD | 00726 | 6283 | 0019564 | STREAM | Bridge | 1937 | 0 | -1 | 6 | 6 | 5 | N | Y | 10/10/2018 | Posted | 0 | 14 | 23 | VDOT | 20 | 18 | 377 | 10/29 | Secondary | 10/29/2019 |
| Bristol  | Norton        | MAIN AVENUE SW | 0000 | 0002241 | BRIDGE BRANCH | Bridge | 1932 | 0 | -1 | 4 | 4 | 6 | N | Y | SD | 2/20/2019 | Posted | 0 | 27 | 40 | VDOT | 20 | 14 | 183 | 243 | Urban | 10/29/2019 |
| Bristol  | Washington   | JEB STUART HWY | 1081 | 0018881 | STRAIGHT BRANCH | Bridge | 1935 | 0 | 1935 | 1930 | 6 | 6 | 5 | N | N | 6/15/2015 | Posted | 0 | 27 | 40 | VDOT | 22 | 27,299,992 | 270,005 | 674 | Primary | 10/29/2019 |
| Bristol  | Wythe        | ASBURY CHURCH RD | 00774 | 6076 | 0016970 | CRIPPLE CREEK | Bridge | 1932 | 0 | -1 | 6 | 6 | 5 | N | Y | FO | 10/1/2018 | Posted | 0 | 28 | 23 | VDOT | 42 | 15 | 130 | Secondary | 10/29/2019 |
**Specific Local Concerns**

**Contact VDOT District Representatives**

- **Bristol**  
  Gary Lester, 276-696-3372

- **Salem**  
  Dean Hackett, 540-387-5311

- **Lynchburg**  
  Dale Totten, 434-856-8175

- **Richmond**  
  Sean Nelson, 804-524-6096

- **Hampton Roads**  
  Shannon Ternes, 757-956-3217

- **Fredericksburg**  
  Leslie Danovich, 540-899-4343

- **Culpeper**  
  Lou Hatter, 540-717-2890

- **Staunton**  
  Susan Hammond, 540-462-6990

- **Northern Virginia**  
  Juan Rocha Encinas, 703-259-2393
Questions?
Thank you for joining us.