

# The I-70 Mountain Corridor Context Statement

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The I-70 Mountain Corridor is a magnificent scenic place.  
Human elements are woven through breathtaking natural features.

The integration of these diverse elements has occurred  
over the course of history.

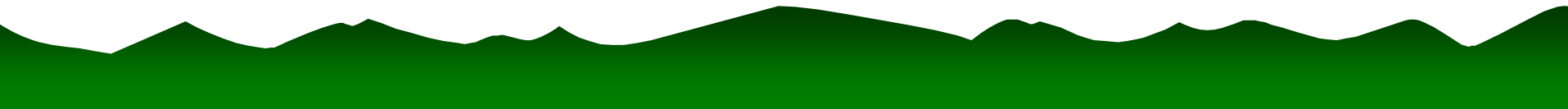
This corridor is a recreational destination for the world  
and a route for interstate and local commerce.

It is our commitment to seek balance and provide for 21st century uses.

We will continue to lead in fostering and nurturing new ideas  
to address the challenges we face.

The vision we share for the corridor respects individual communities  
and the natural environment while providing safe and efficient travel.

Well thought-out choices create a sustainable legacy.



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# Chain Station Workshop 2

**February 25, 2008**



# Today's Agenda

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**1:00 p.m. – 1:15 p.m.**

**Welcome  
Introductions**

**1:15 a.m. – 2:15 p.m.**

**Chain Station CSS**

**2:15 p.m. – 2:30 p.m.**

**Break**

**2:30 p.m. – 3:30 p.m.**

**Lighting Design**

**3:30 p.m. – 4:30 p.m.**

**Lighting Prioritization  
Summary  
Open Discussion**



# Chain Station Workshop #1

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**April 17, 2007**

**We discussed what needed to be considered  
when developing chain station projects**

**We discussed each specific chain station  
and its issues**

**We discussed priorities**

**Follow up meetings confirmed the focus and  
priorities**



# Summary of Design Issues

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**Safety was most important**

**Multi-use was an important consideration**

**Environment needs protection**

**Lighting as a critical feature of safety**

**Light the stations only when the chain law is in effect, day or night**

**Signing as an essential feature of safety**

**Enforcement and Education to increase compliance**

# Summary of Phasing / Priorities

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## **Safety 1<sup>st</sup>**

**Physical separation**

**Signing**

**Lighting**

**Reduction in speed**

**Build fewer location and do the chosen sites  
as models**

**Education**

**Courtesy Service**



# What happened?

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**We did not build in a feedback loop so you didn't get info on what was decided and built and why.**

**AND we didn't have a process that set up a meeting to get you involved in the development of the next Chain Station project.**

# What is happening now?

## CSS on the I-70 Corridor

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**Chain Station Workshop was the 1<sup>st</sup> CSS working meeting on the corridor.**

**Since then we have been working on Corridor wide issues.**

**CDOT has established the I-70 Management Team**

**Context Statement, Core Values and the process steps that all projects on the I-70 Corridor will be using in the future are being developed.**

**We encourage you to visit our website [www.i70mtncorridor.com](http://www.i70mtncorridor.com)**

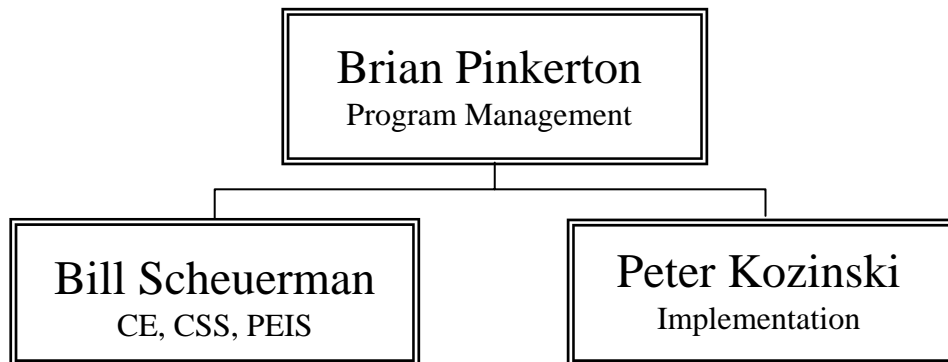




# I-70 Management Team

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- **Focus on I-70**
  - Get current efforts finished**
  - Use CSS to implement ongoing efforts**
- **Implement the I-70 Solution**
- **The Management Team**



# The I-70 Mountain Corridor Context

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# Core Values

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- ✓ **Sustainability**  
**Decision Making**
- ✓ **Safety**
- ✓ **Environmental Health**  
**History**
- ✓ **Communities**  
**Mobility and Accessibility**
- ✓ **Aesthetics**



# Safety was #1 for the Chain Stations

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**Physical separation**

**Signing/ ITS**

**Lighting**

**Adequate # of spaces in the correct locations**

# Today and Beyond

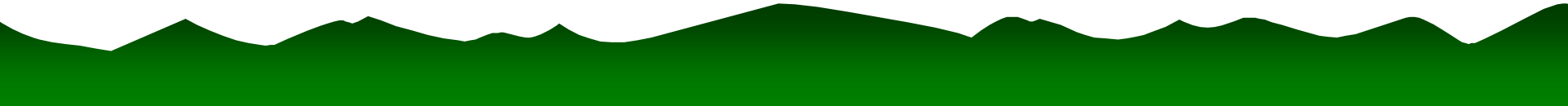
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**Form the 1<sup>st</sup> CSS Working Group  
The Chain Station Working Group**

**Group will discuss the gaps**

**Group will address the other issues  
– multi use, aesthetics, wildlife**

**Group will determine if some improvements  
should be a part of the reconstruction of  
the corridor**



# Chain Station Working Group

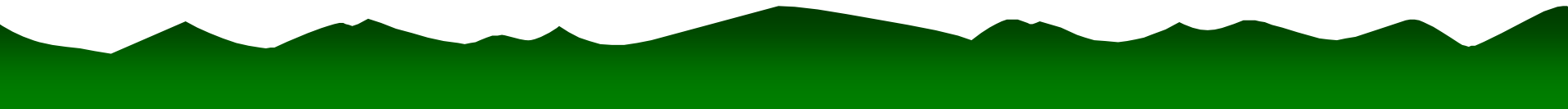
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**Multi-discipline**

**Focused on the Chain Stations**

**Develop and finalize a plan for the future  
Chain Station projects**

**Develop the check-in points for the future  
projects**



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# CSS Questions



# Lighting Project

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**\$3 million dollars is available to spend lighting the chain stations**

**The project is planned for this summer**

**CDOT would like to appropriately light as many stations as possible**



# Lighting as a critical element of Safety

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**Dark Sky compatible lighting**

**Light the stations when the chain law is in effect, day or night**

**Activate the lights with the signs**

**Light both sides of the trucks, side lighting**

**Address lighting appropriately at the various stations**

**Look beyond standard CDOT poles and lights**

**Consider LED lights**

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# I-70 Truck Chain Stations Lighting Update



# East Vail – Existing Lighting

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# Luminaires

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**Fully shielded luminaires**

**“Dark Skies” compatible luminaires**

**White light**

**Reduced energy use – 150 W versus 400W**

**Light the stations only when the chain law is in effect, day or night**

# Light Considerations

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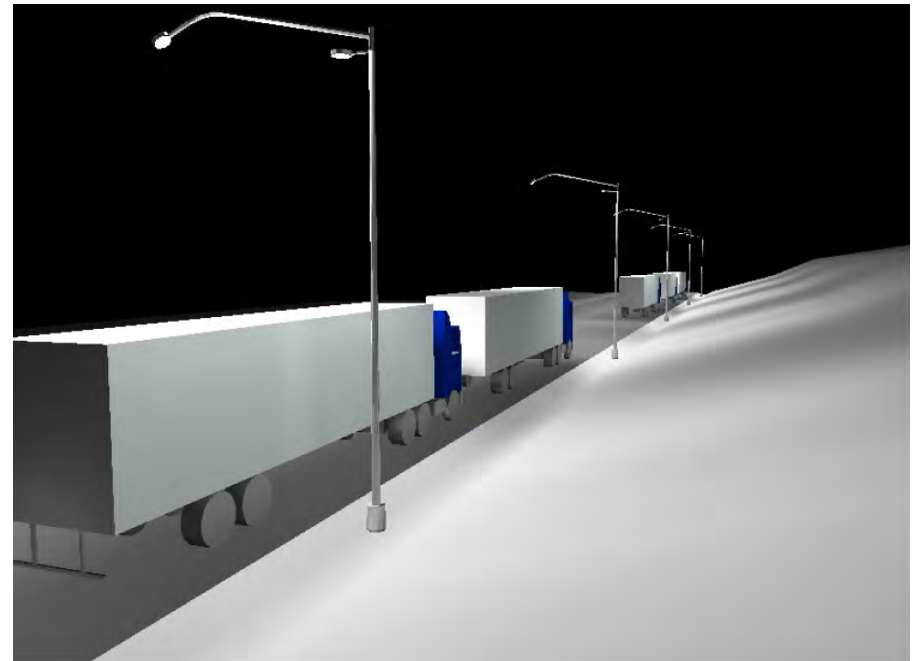
**Provide quality lighting for truckers chaining up or down**

**Allow visibility of truckers by motorists**



# Existing Lighting Design

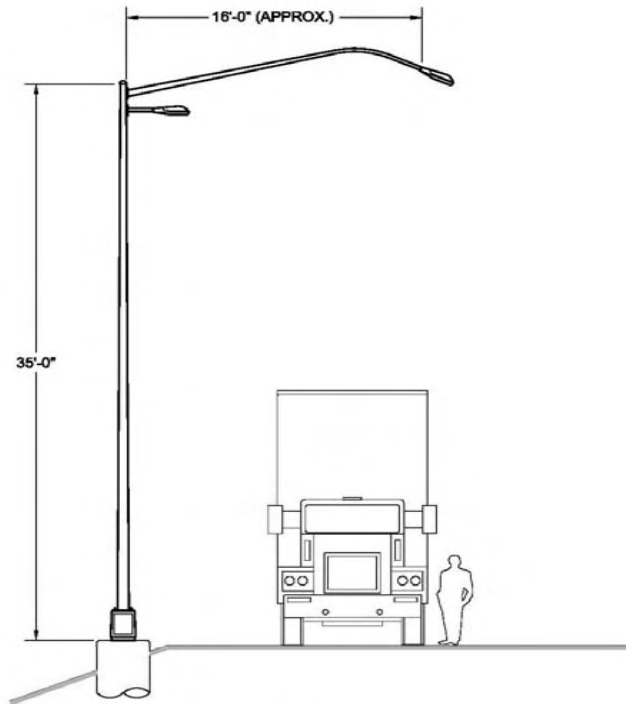
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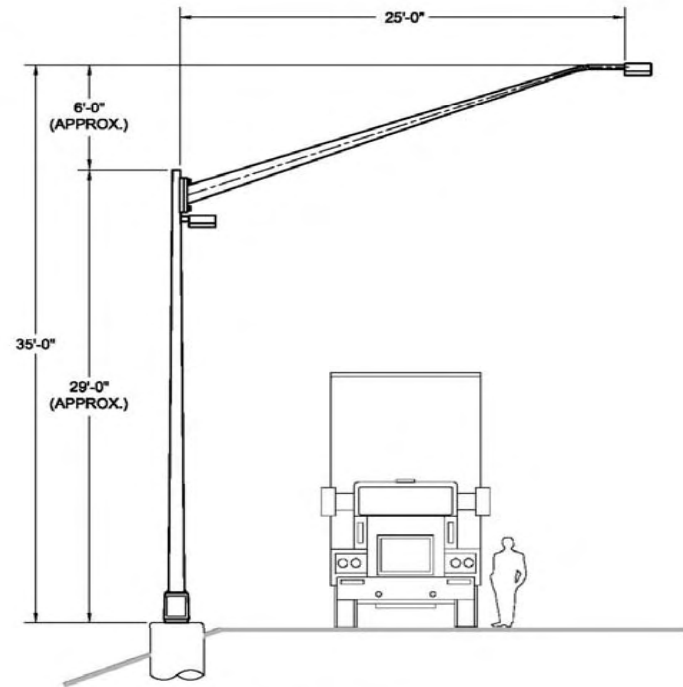
**16-FOOT MAST ARM  
35-FOOT POLE**

# Pole Assembly

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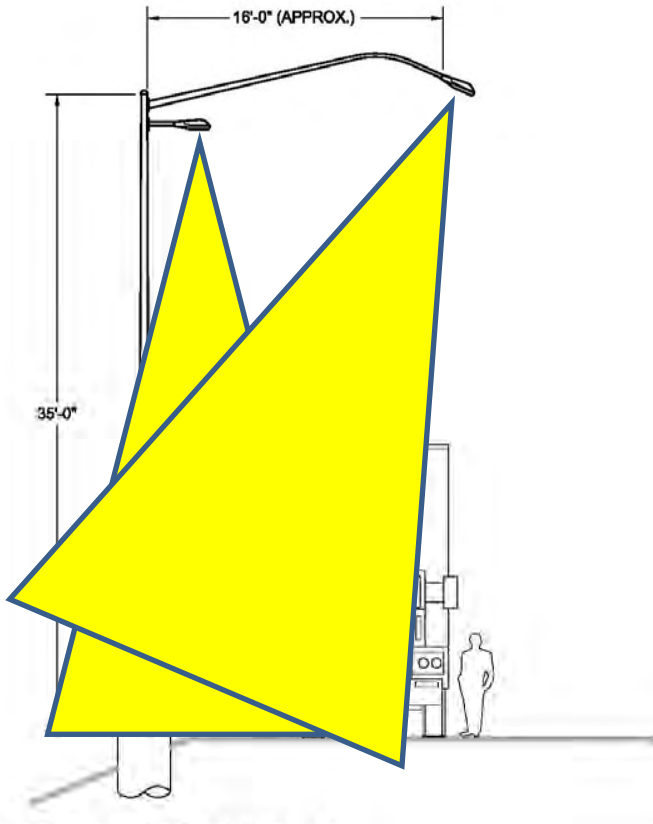
Existing East Vail



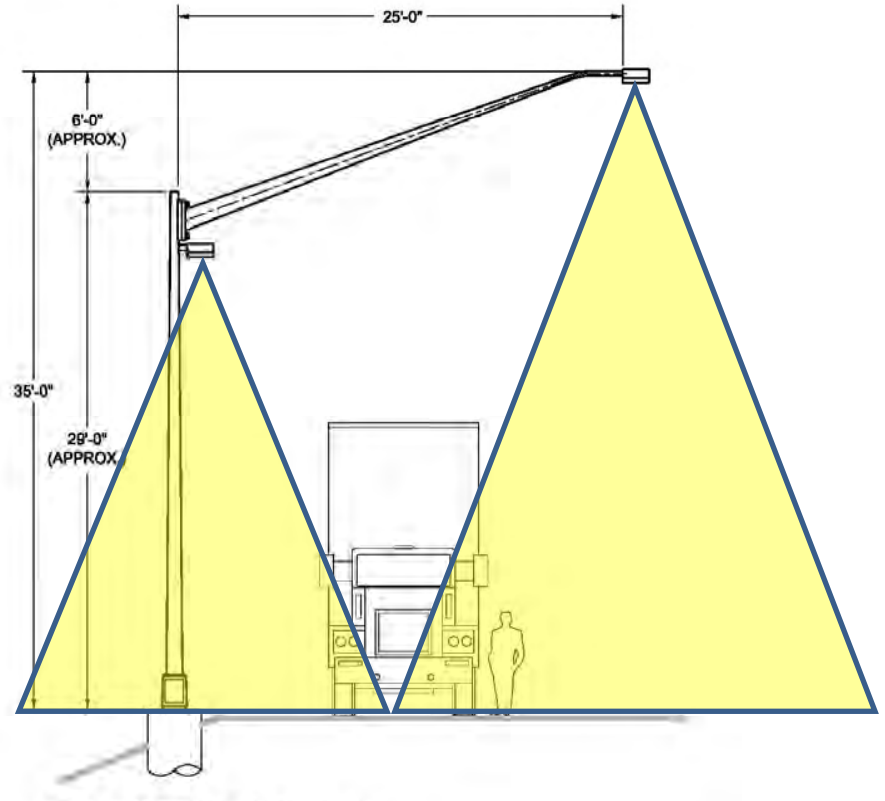
Proposed Assembly

# Pole Assembly

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Existing Exit Vail

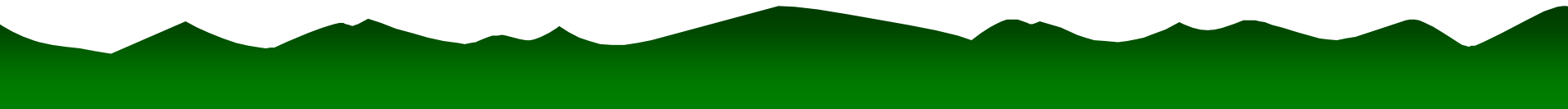
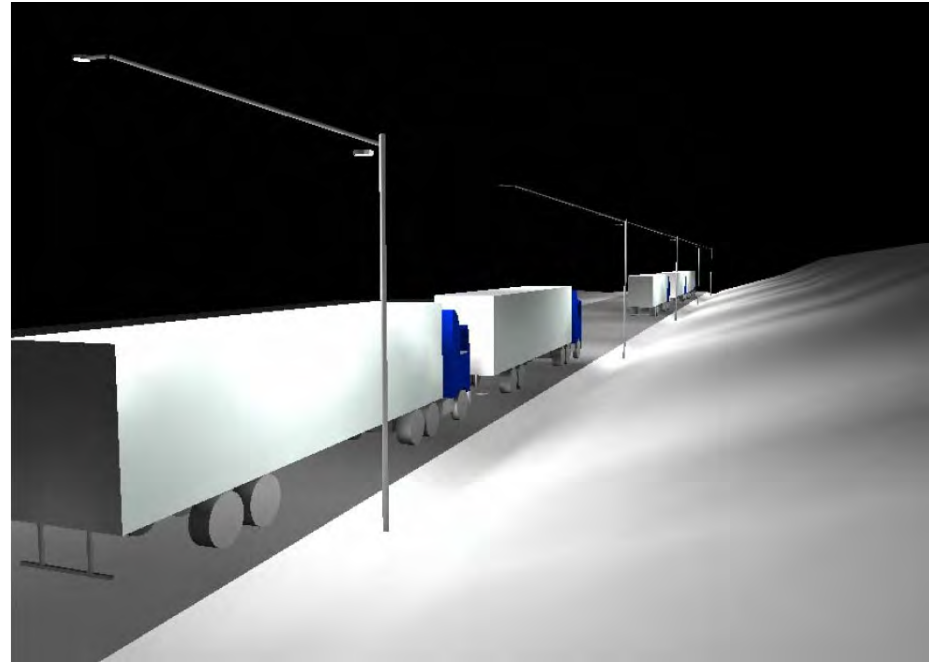
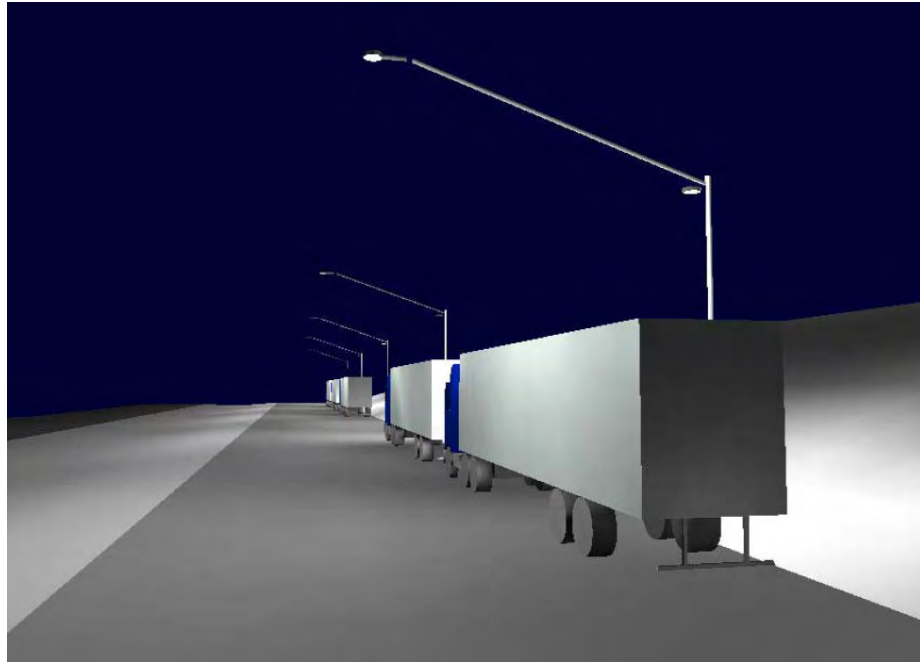


Proposed Assembly



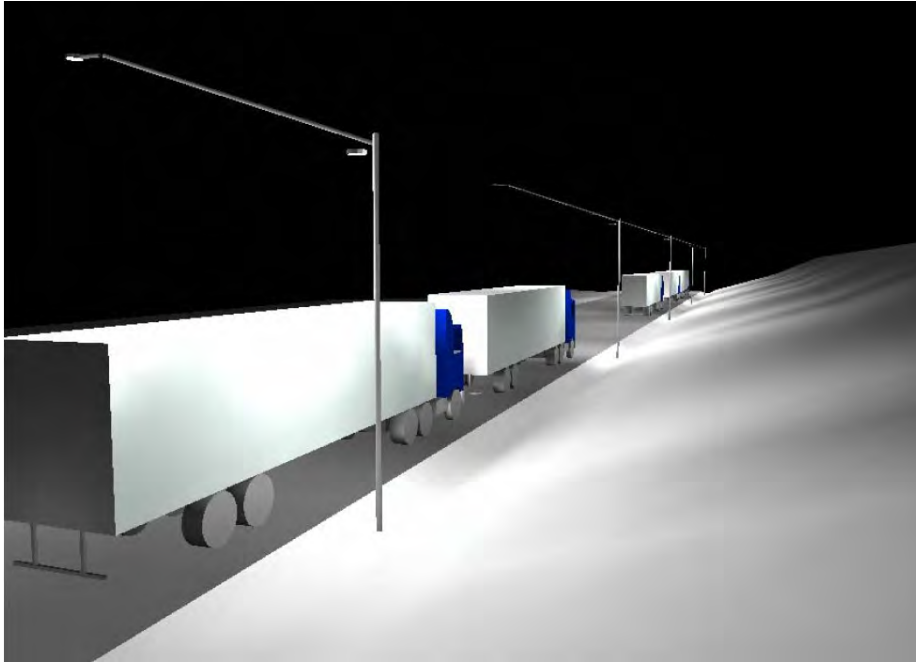
# Proposed Lighting Design

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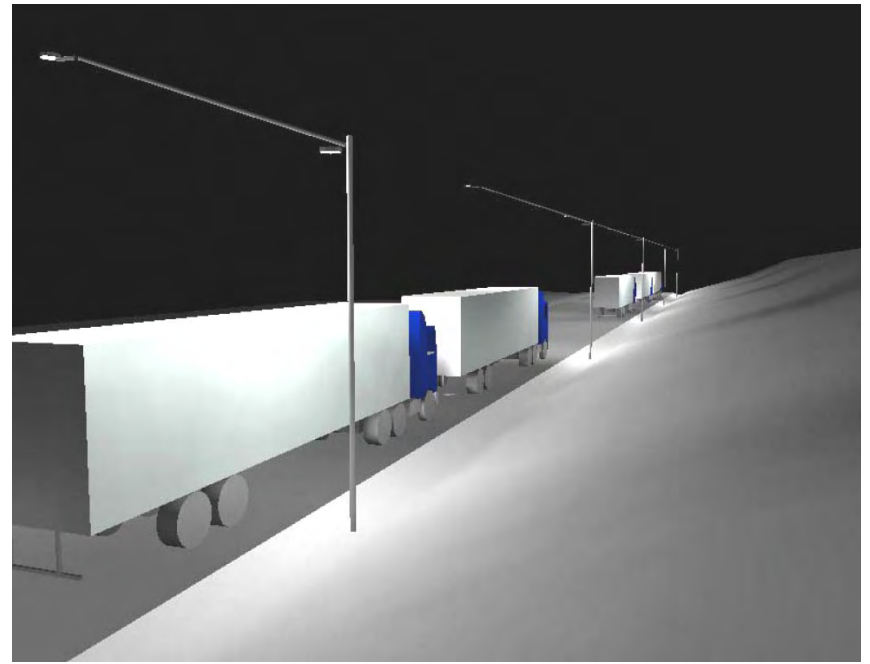


# Proposed House-side Shield Design

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**Without House-side shield**



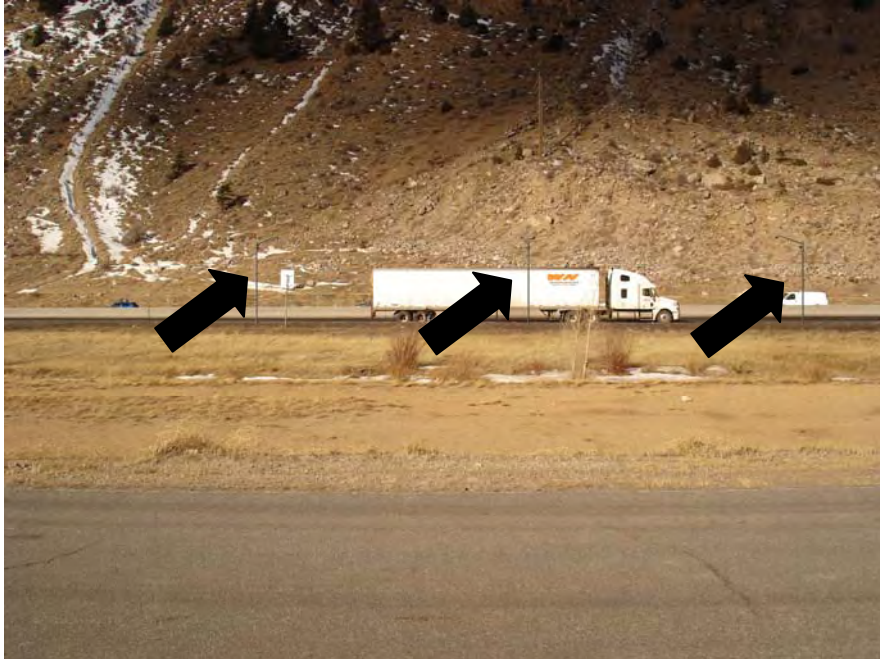
**With House-side Shield**

# Lighting Renderings

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**30' Pole - 110' Spacing**

**20' Pole - 70' Spacing**



# Lighting Layout

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Pole Height	Pole Spacing	For Example at Georgetown	
		Total Number of Poles	Total Watts
<b>30'</b>	<b>110'</b>	<b>53</b>	<b>15,900</b>
<b>25'</b>	<b>90'</b>	<b>65</b>	<b>19,200</b>
<b>20'</b>	<b>70'</b>	<b>83</b>	<b>16,600*</b>

\* 100 Watt Fixture



# Summary of proposed lighting design

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**30' poles**

**110' spacing**

**150 Watt, fully shielded, Dark Sky friendly,  
white light luminaires**

**Light the stations only when the chain law is  
in effect, day or night**

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# **Lighting Design Questions**



# Lighting Prioritization

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**The \$3 Million may not be enough to light all of the chain stations.**

**What should CDOT consider while prioritizing the lighting of chain stations?**

# Today and Beyond

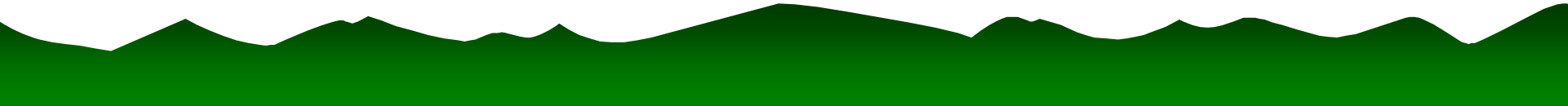
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# Wrap Up

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**If you are interested in the Chain Station Working Group please sign up**

**We appreciate your continued participation in the I-70 Corridor**

**We commit to continuously improving our process and our communications with you**