

**NEVADA COMMISSION for the RECONSTRUCTION of the V&T RAILWAY**

**THURSDAY, January 30, 2020 @ 1:00pm**

**Carson City Community Center – SIERRA ROOM**

**851 East William Street (Highway 50 and South Roop Street) Carson City, Nevada 89701**

**AGENDA**

**1:00 PM CALL TO ORDER – PLEDGE OF ALLEGIANCE**

**1. ROLL CALL**

**2. FOR POSSIBLE ACTION: APPROVAL OF THE AGENDA**

*This is the tentative schedule for the meeting. The Commission reserves the right to take items in a different order to accomplish business in the most efficient manner. The Commission may combine two or more items for consideration and may remove an item from the agenda or delay discussion relating to an item on the agenda at any time.*

**3. PUBLIC COMMENT ON NON-AGENDIZED ITEMS**

*Discussion may be limited to three minutes per person at the discretion of the Chairman. No action may be taken on a matter raised under this portion of the agenda until the matter itself has been specifically included on an agenda as an item upon which action may be taken.*

**4. FOR POSSIBLE ACTION: APPROVAL OF MEETING MINUTES FOR**

*A. October 31, 2019*

**5. FOR DISCUSSION AND POSSIBLE ACTION: FINANCIAL REPORT**

*A. FY2020 Financials report by Hugh Gallagher, Storey County Comptroller*

**6. FOR DISCUSSION AND POSSIBLE ACTION: REVIEW AND APPROVAL OF THE V&T RAILWAY AUDITED FINANCIAL STATEMENTS FOR THE YEAR ENDED JUNE 30, 2019 COMPLETED BY STEELE & ASSOCIATES**

**7. FOR DISCUSSION AND POSSIBLE ACTION: UPDATE ON FY2018 FEMA GRANT REIMBURSEMENTS**

**8. FOR DISCUSSION: PROGRESS REPORT ON THE #18 STEAM ENGINE**

**9. FOR DISCUSSION ONLY: UPDATE ON THE PROPOSED RAILBIKE OPERATION AND FORMATION OF A CARSON CANYON RAILBIKE COMMITTEE**

*A. Initial funding: Partnerships and tourism grant application*

*B. Update on prototype construction and testing*

*C. Formation of a Carson Canyon Railbike Committee to work with General Manager*

**10. FOR DISCUSSION ONLY: MARKETING UPDATE BY ARGENTUM PARTNERS**

**11. FOR DISCUSSION ONLY: GENERAL MANAGER'S REPORT**

**12. FOR DISCUSSION ONLY: ENGINEER'S REPORT**

*A. Maintenance and projects update*

**13. FOR DISCUSSION ONLY: ATTORNEY'S REPORT**

**14. FOR DISCUSSION AND POSSIBLE ACTION: NEXT MEETING DATE(S) & AGENDA ITEMS**

Scheduled for Thursday, February 27, 2020

## 15. COMMISSIONER COMMENTS

### ADJOURNMENT OF COMMISSION BOARD MEETING

TITLES OF AGENDA ITEMS ARE INTENDED TO IDENTIFY SPECIFIC MATTERS. IF YOU DESIRE DETAILED INFORMATION CONCERNING ANY SUBJECT MATTER ITEMIZED WITHIN THIS AGENDA, YOU ARE ENCOURAGED TO CALL THE COMMISSION'S OFFICE AT 775-291-0208. NOTICE TO PERSONS WITH DISABILITIES: MEMBERS OF THE PUBLIC WHO ARE DISABLED AND REQUIRE SPECIAL ASSISTANCE OR ACCOMMODATIONS AT THE MEETING ARE REQUESTED TO NOTIFY THE COMMISSION'S OFFICE AT 1711 CARSON CITY, NEVADA OR BY CALLING 775-291-0208 AT LEAST 24 HOURS IN ADVANCE.

NEVADA COMMISSION FOR THE RECONSTRUCTION OF THE V&T RAILWAY RECOGNIZES THE NEEDS AND CIVIL RIGHTS OF ALL PERSONS REGARDLESS OF RACE, COLOR, RELIGION, SEX, DISABILITY, FAMILY STATUS OR ORIGIN.

NOTICE: THIS NOTICE IS POSTED PURSUANT TO NRS 241 AT THE FOLLOWING LOCATIONS: STOREY COUNTY COURTHOUSE, 26 SOUTH B STREET, VIRGINIA CITY, NEVADA; CARSON CITY EXECUTIVE OFFICES, 201 N. CARSON ST. CARSON CITY, NEVADA; CARSON CITY CULTURAL & TOURISM OFFICE, 716 NORTH CARSON STREET, CARSON CITY, NEVADA; CARSON CITY COMMUNITY CENTER, 851 EAST WILLIAM STREET, CARSON CITY, NEVADA; [WWW.VTCOMMISSION.COM](http://WWW.VTCOMMISSION.COM); [HTTPS://NOTICE.NV.GOV](https://NOTICE.NV.GOV)

### **Certificate of Posting**

I, Elaine Barkdull-Spencer, General Manager, V&T Railway, do hereby certify that I posted, or caused to be posted, a copy of this agenda at the following locations in compliance with NRS 241.020(3): Storey County Courthouse, Carson City Executive Offices, Carson City Cultural & Tourism Office, and Carson City Community Center. In addition, this agenda has been electronically posted in compliance with NRS 241.020(3) at [www.vtrailway.com](http://www.vtrailway.com), and NRS 232.2175 at <https://notice.nv.gov/>. To obtain further documentation regarding posting or supporting materials, please contact Elaine Spencer, General Manager, V&T Railway Commission at (775) 340-2045, [vandtrailway@gmail.com](mailto:vandtrailway@gmail.com).

# NEVADA COMMISSION for the RECONSTRUCTION of the V&T Railway

THURSDAY, OCTOBER 31, 2019 @ 1:00 p.m.

Carson City Community Center – SIERRA ROOM

851 East William Street (Highway 50 and South Roop Street) Carson City, Nevada 89701

## MEETING MINUTES

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Notice: Items on the agenda may be taken out of order; two or more agenda items may be combined for consideration; and items may be removed from the agenda or discussion relating thereto delayed at any time. This is the tentative schedule for the meeting. The Commission reserves the right to take items in a different order to accomplish business in the most efficient manner.

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The following minutes are a summarized explanation of the topics discussed. A taped recording of these proceedings will be kept for review.

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### CALL TO ORDER

Chairman Jones called the meeting of the Nevada Commission for the Reconstruction of the V&T Railway to order at 1:00 p.m. and called for the Pledge of Allegiance.

### Pledge of Allegiance

#### 1. ROLL CALL

Elaine Spencer called roll.

Chairperson: Stan Jones – Present  
Vice Chair: Marshall McBride – Present  
Treasurer: Mike Santos - Present  
Board Members: Deny Dotson – Present  
Nick Marano - Present

Others: Elaine Barkdull-Spencer, Angie Hoeger, Michael Smiley Rowe, Hugh Gallagher, Molly Ellery, Gabe Willaman, Tom Gray

Public Attendance: There were people present from the public.

#### 2. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION'S ATTENTION: APPROVAL OF THE AGENDA

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Chairman Jones wanted to table item 6 and asked for approval of the agenda.

D. Dotson made a motion to remove item 6 and approve the agenda.

Second – N. Marano

Approved – Unanimously

E. Spencer provided an explanation that she requested item 6 be tabled until the audit is completed and they could address it in November. She advised that each member was provided a copy of her contract.

**3. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION'S ATTENTION: PUBLIC COMMENT ON NON-AGENDIZED ITEMS**

*Discussion may be limited to three minutes per person at the discretion of the Chairman. No action may be taken on a matter raised under this portion of the agenda until the matter itself has been specifically included on an agenda as an item upon which action may be taken.*

No Public Comment.

**4. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION'S ATTENTION: APPROVAL OF MEETING MINUTES**

a. September 26, 2019

M. Santos made a motion to approve the minutes from the September 26, 2019 meeting minutes as presented.

Second – D. Dotson

Approved – Unanimously

**5. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION'S ATTENTION: FOR DISCUSSION AND POSSIBLE ACTION: FINANCIAL REPORT FY 2020**

E. Spencer explained this is the budget versus actual. Now that the budget is in QuickBooks, she can evaluate where they are year-to-date. She advised they are keeping a close watch on expenses as they move forward. She said the steam season is completed and the revenue budget was \$381,000 and they were at \$333,000, this did not include May and June 2020. May and June 2020, being part of the fiscal year, requires making up \$50,000. They are at 87% and the rest of the budget is made up in May and June 2020 since these two months are also in this fiscal year.

E. Spencer said the Polar Express is doing very well. The momentum is upward, and the VIP Trains are nearly sold out, so they are concentrating on selling coach tickets.

E. Spencer said as for revenue, everything looks good. As far as expenses, she explained the highest numbers when reviewing budget versus actual are event expenses. Event expenses are at 83% which includes Polar Express cups, mugs and items ordered way in advance of the event and Toast of the Canyon wine train expenses. Miscellaneous expenses line item is at 78% which is mainly due to ordering the railbike prototype wheels.

E. Spencer said the online social media advertising for regular season is at 94% and they will be watching that very closely when they get into spring and start looking at the "kick-off" season. Traditional advertising expense shows 206%. However, it includes the \$42,000 for the new website, photoshoot, and the video filming which was not originally in the

budget. She explained they knew this was going to happen and they would have to compensate in other areas. She ended with reporting they are \$201,470.00 in the black as of October 30<sup>th</sup>, 2019.

N. Marano asked if the Casual Labor budget was far too low or if there were unforeseen circumstances.

E. Spencer explained the Casual Labor item is a stipend for the historical reenactors. She had estimated that 2-3 actors would show up during the trains on Friday, Saturday, and Sunday but they have averaged between 6-8 actors. She explained it was better participation than expected and having the reenactors onsite enhanced the experience when “turning back time”, she went on to explain they are also greeters and hosts and dressed in costume to perform those duties.

N. Marano agreed they really add to the experience.

H. Gallagher said the V&T FY19 report was in the auditor’s hands as of Monday, October 28<sup>th</sup>, 2019. Storey County had to pay two voucher periods out of Storey County’s bank account for FY2020 and that will be rectified. When that comes forth he said he could provide good current statements for the rest of this year. He said he anticipates a good healthy report for the commission.

**6. FOR DISCUSSION AND POSSIBLE ACTION:** Tabled.

**7. CHAIRMAN JONES BROUGHT UP THE NEXT ITEM TO THE COMMISSION’S ATTENTION FOR POSSIBLE ACTION: APPROVAL FOR ALL PROFESSIONAL SERVICES CONTRACTS WITH THE V&T RAILWAY COMMISSION BE REVIEWED FOR POSSIBLE REVISIONS AND UPDATES PRIOR TO THE APPROVAL OF THE 2020 BUDGET – RECOMMENDED BY CHAIRMAN STAN JONES.**

Chairman Jones stated he recommends reviewing all V&T Railway contracts. He said some have only been updated with a signature and date, some are ten years old and older, and he thinks before they do the budget for next year it is a good time to review the contracts. He requested the board’s approval for moving forward.

M. McBride asked what the timeline was for putting together next years’ budget.

E. Spencer answered with it being March.

D. Dotson asked what the process would be.

Chairman Jones responded his thoughts would be to have himself, E. Spencer, and Attorney M. Smiley Rowe, and Treasurer M. Santos and they would make recommendations back to the board.

D. Dotson asked M. Smiley Rowe if they are bound by any contracts to put them out every so often, or as a professional service can we just renew it as we see fit.

M. Smiley Rowe advised professional service contracts are exempt from the Local Government Purchasing Act Chapter 332, so a sole source negotiation can be done.

M. Santos made a motion that Chairman Jones, along with E. Spencer be given approval to look at all professional service contracts with the V&T Railway Commission and the contracts be reviewed for possible revisions and updates prior to the approval of the 2020 budget.

Second - M. McBride

Approved – Unanimously

**8. CHAIRMAN JONES BROUGHT UP FOR DISCUSSION: PROGRESS REPORT ON THE #18 STEAM ENGINE**

Tom Gray, via cellular, reported they had a federal inspection for the hydrostatic on the boiler test and the next day they did an internal inspection with them; they have a high definition camera that goes inside. They put the engine back together, filled it back up, heated it up one more time for the steam test which they did not pass. They took it back apart for the air pump, ordered some parts for that and then when he gets those, they will fire it back up. He believes they have one more shot before the weather gets too cold. He still would like to run it this year not necessarily for the Commission but to try stuff out. He has a few more steam leaks to seal before they heat it, seal it back up and then drain it and open it up for the winter. He feels comfortable about it, but says he is not quite there yet. The feds have already been notified and they do not necessarily have to be there for a steam test. They can see it any time during the season when they come up to look at it.

E. Spencer asked if Tom Gray would be running the engine alone or attaching some passenger cars on it to see how it feels.

Tom Gray stated probably just the engine. He said he felt comfortable with the braking system, but you never know.

E. Spencer asked if it would be painted for a photo shoot.

Tom Gray said yes, the tender is primed and partially painted so there is still time to finish that up weather wise. Those are the last major issues he can see. He said he is getting the #29 done, drained out. There are still winter projects to do. Along with preparing the coaches, they are setting up the North Pole village today. They just shipped out the Thomas engine and as there are no regular trains running that frees up some time. The next area of focus is the Polar Express and Candy Cane Trains, and Engine #18 and the track structure.

Chairman Jones asked if they could anticipate a train for the ballast next week.

Tom Gray said they should be ok for next week. His biggest concern was the Hayward Siding. It has some drainage issues and just needs to be tamped up and raised.

**9. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION'S ATTENTION FOR DISCUSSION ONLY: UPDATE ON THE PROPOSED RAILBIKE OPERATION.**

M. Santos advised the railbike prototype had been built. He passed out photos of it. Via an email, Jim Adamski advised that he would like to bring the bike out in the beginning of November and have it tested on our track. He is waiting for the wheel stiffeners that have been shipped out of Colorado. Once they arrive, Jim will put them together and transport the bike on a flatbed trailer to Carson City to test. Jim is also in contact with a man from France who builds wheels that do not require wheel stiffeners because of the composite way they are built. This is another resource. Jim Adamski is considering going to France and looking at them at no cost to us.

**10. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION’S ATTENTION: MARKETING UPDATE BY ARGENTUM PARTNERS**

Molly Ellery stated 30% of the visitors to the website are coming from our Facebook page. It is a change from what was seen previously as far as website traffic. The E-blasts have performed very well and they will continue to use that method into the Polar Express Season. Prior to Polar Express within the last month they had a good bout of earned media. They expect that to be much greater in the Polar Express season. The Polar Express press release has gone out and they have already started pitching for the start of the season. In the last week they have set up four interviews that they are coordinating on times. Several media buys were placed and they are leveraging for additional interviews or airtime, as well as on site media promotions and having the stations come out right before the kickoff of Polar Express season. Molly revealed they do have the billboard going up for November and that will be up for the entire month in the heart of Reno. She said for our November 15<sup>th</sup> train, there are several media partners that have agreed to attend the train ride varied between the three departure times. Currently, there are ten different media partners that will be attending. She said they also reached out to several elected officials and they have said “yes” they are coming, they just aren’t sure which time yet. She expects that to be a very successful kick off debut.

Molly was excited to say, as a combined effort from the Board and E. Spencer, that Argentum received a Silver Spike Award at the Public Relations Society of America Reno event for the overall campaign. The overall campaign is the biggest category at the awards ceremony and the Silver Spike is the equivalent of a gold medal. She stated they were honored to receive the award and wanted to thank everyone for the opportunity to allow Argentum to work with the Board and they are excited to finish out the season and continue their efforts.

Chairman Jones asked where the billboard in Reno was located.

M. Ellery stated off the Spaghetti Bowl near the Grand Sierra Resort. It is a digital board.

D. Dotson asked if it was easy to change the main page on our website.

M. Ellery said prior approval is needed from RailEvents to put up a brand-new display page. They suggested not doing it at all as it is such a strenuous process. However, the video and images can be changed and Argentum is working on getting some video with the help of E. Spencer that they can update the footer with the main photos that E. Spencer is in the process of updating with more specific Polar Express photos.

E. Spencer added there was a new photo shoot the previous night and it went until 8:30 p.m. Polar Express cast members were brought in along with beautiful staging. The goal was to attract passengers with new vibrant photos. A photographer was brought in for a quick turnaround time and the photos should be up next week.

Chairman Jones congratulated Molly on the award.

**11. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION’S ATTENTION FOR DISCUSSION ONLY: THE GENERAL MANAGER’S REPORT:**

E. Spencer reported there was additional striping and painted directional arrows that needed to be added to the parking lot prior to the start of Polar Express. It will be finished next week with the help of Armac.

**12. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION'S ATTENTION: FOR DISCUSSION ONLY: ENGINEER'S REPORT:**

Gabe Willaman said they tamped up Overman and raised it up to where it was supposed to be. They tamped up Haywards as well. They are waiting for Tom Gray to dump ballast. Tom said possibly next week they will be able to get his train and ballast to dump.

Chairman Jones asked how many carloads it would be.

Gabe responded it would probably be two or three and if Tom Gray gives the possibility to dump more, they want to dump more because there are a few curves that are pretty light on ballast. Gabe said the ballast regulator is up and running and any ballast put down can be smoothed out.

E. Spencer stated the ballast was already ordered.

Gabe Willaman confirmed yes, it is sitting in piles at Gold Hill.

E. Spencer said she had something to add in relation to track work and the Emergency Management Division grants that Nick Marano had originally been working on. She and Stan Jones met with Sue Coyote at EMD and her assistant. They received direction on what information they still need to have from the V&T. There were just a few small items and E. Spencer assigned Tiffany Dubois to follow up on the items and Gabe Willaman took needed photographs of the repairs that will be submitted right away. They should see grant reimbursements in the amount of somewhere between \$20,000 - \$25,000.

**13. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION'S ATTENTION: ATTORNEY'S REPORT:**

M. Smiley Rowe reported on the usual minutes/agenda review and is coordinating with Elaine on administrative tasks. The most significant time was monitoring the Toast of the Canyon incident to make sure that it gets properly recorded to our carrier and keeping an eye on that as it works its way through the process.

E. Spencer advised that it is in Tom Gray's hands and it was going through his insurance as well as being reported to the FRA (Federal Railroad Association). She explained a case was opened with our insurance, but it was not necessary, Tom Gray's insurance is primary, and he took over.

M. Smiley Rowe said under the Operating Agreement, Tom Gray's insurance is the primary and ours is secondary. It requires him to exhaust his insurance first and if needed then we could go to the pool, but M. Smiley Rowe doesn't think it will be necessary.

**14. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION'S ATTENTION: NEXT MEETING DATE(S) AND AGENDA ITEMS:**

A. V&T Railway Commission Meeting to be tentatively 1:00 p.m. on Thursday, December 5<sup>th</sup>, 2019 at the Chamber of Commerce awaiting the auditor's report.

**15. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION'S ATTENTION: COMMISSIONER'S COMMENTS: (Chairman Jones Included Public Comment)**

M. Santos is looking forward to seeing the prototype for the railbike showing up to be tried on our track. He also will be talking to different civic groups to see if he can get E. Spencer in there to talk with them about the Polar Express and what is going on with the V&T.

M. McBride said along those lines for M. Santos to check on the NNDA (Northern Nevada Development Association) for availability for E. Spencer to address that group as depending what they have on their calendar they sometimes have a large community attendance.

N. Marano would like a date calendared for the next meeting to go over the audit report.

E. Spencer recommended Thursday, December 5<sup>th</sup>, 2019.

M. Smiley Rowe advised if the audit makes a finding in which the Commission disagrees, then the Commission can adopt a formal contrary position to it and get it included in the audit.

M. Santos asked if the Board would have a chance to review the audit prior to the meeting in case they had questions.

E. Spencer explained it would be sent out with the Board packet and posted online. Also, the general public can pick up copies made available at the office.

Chairman Jones said he thought the Board had a great year, overall. He thinks their staff has done an admirable job, the Board has been very supportive and he appreciates that. He hopes everyone has happy holidays and a huge Polar Express year.

**16. CHAIRMAN JONES BROUGHT THE NEXT ITEM TO THE COMMISSION'S ATTENTION: ADJOURNMENT OF THE MEETING.**

M. Santos made a motion to adjourn the meeting.

N. Marano - seconded the motion.

S. Jones adjourned the meeting at 1:46 p.m.

VTRW  
2019 MAINTENANCE-of-WAY (MOW) and ENGINEERING  
COST TRACKING

1.24.20

Company	Work Description	Invoices Thru 1/2/2020	Remaining to be Billed for 2019	TOTALS
<b>GENERAL MAINTENANCE OF WAY (MOW)</b>				
Gabe Willaman Railroad Construction	Track Maintenance Services and inspections including signal inspections, including PUC inspection, tamping up low spots	\$54,392.43	\$0.00	\$54,392.43
Gabe Willaman Railroad Construction	Materials: weed killer, pre-emergent	\$7,224.00	\$0.00	\$7,224.00
Gabe Willaman Railroad Construction	Application of pre-emergent	\$3,600.00	\$0.00	\$3,600.00
KL Dorr Consulting	MOW Supervision	\$7,060.00	\$0.00	\$7,060.00
KL Dorr Consulting	RCI Annual Tunnel and Slope Inspections	\$442.75	\$0.00	\$442.75
KL Dorr Consulting	Hanford Consulting Annual Inspections	\$1,485.00	\$0.00	\$1,485.00
Manhard Consulting	FRA form 55 Jan - August	\$150.00	\$600.00	\$750.00
<b>TOTALS</b>		<b>\$74,354.18</b>	<b>\$600.00</b>	<b>\$74,954.18</b>
<b>MISCELLANEOUS</b>				
Manhard Consulting	Overman Embankment monitoring	\$1,325.00	\$0.00	\$1,325.00
V&T Rock, Inc.	Ballast	\$3,234.00	\$0.00	\$3,234.00
Fly Right LLC	Bridge painting	\$7,000.00	\$0.00	\$7,000.00
<b>TOTALS</b>		<b>\$11,559.00</b>	<b>\$0.00</b>	<b>\$11,559.00</b>
		<b>\$85,913.18</b>	<b>\$600.00</b>	<b>\$86,513.18</b>

# KL DORR CONSULTING LLC

PO Box 20112  
Carson City, NV 89721

December 28, 2019

Nevada Commission for the Reconstruction of the V&T Railway  
P.O. Box 1711.  
Carson City, NV 89702

**Subject: V&T Railway (Bridge G-2898) – Visual Bridge Inspection Report**  
**Inspector:** Kent Hanford

Dear Commissioners:

A visual inspection of the V&T Railway Bridge (G-2898) crossing Highway US-50 in Carson City, Nevada was performed on October 12, 2019.

During the annual inspection, traffic control on US-50 and the use of a special inspection vehicle were not a part of this inspection. This visual inspection was conducted by observing the bridge structure from below at a safe distance from traffic on the shoulder of US-50 and from atop the bridge at track level. The bridge was observed during a train crossing on October 12, 2019. Observation of the bridge during the train's crossing revealed no noticeable movement.

The bridge was found to be in good condition. Minor maintenance is again recommended to address pre-existing conditions and to protect the structure from aggressive weather. The findings from the inspection are presented in the attached report titled: "V&T Railway (Bridge G-2898) – Visual Bridge Inspection Report" with included photo exhibit.

NDOT performs a structural inspection of the bridge every two (2) years. The report from the last inspection performed on June 10, 2019 by NDOT is attached for reference. The report identifies items in need of maintenance and includes recommendations for the maintenance of each item identified. The current report identifies the paint on components of the bridge superstructure, a missing bolt and a small area of spalled concrete exposing the reinforcing steel. The painting is not critical and the missing bolt does not appear to be where they indicate but rather an inaccessible location on the bridge. The missing bolt and area of concrete spalling will be evaluated to determine if either can be addressed by the V&T maintenance contractor.

Still remaining are minor hairline cracks on both abutments and the center pier. The noted cracks are likely due to concrete shrinkage and not believed to compromise the structural integrity of each structure. Continued freeze/thaw cycles will increase the weathering of each crack and future maintenance will be required to prevent/minimize spalling.

As previously reported, all surfaces of the bridge abutments, wingwalls and center pier are showing signs of weathering. The original stain/sealant applied to the concrete surfaces continues to wear on all structures causing increased weathering of the surface and ultimately more significant maintenance needs and greater maintenance costs. The sealant should be reapplied to protect the concrete surface before the concrete cracking continues and before the concrete begins to spall and

patching repairs are then needed. The reapplication of the stain or sealant is the most significant recommended maintenance item. Deterioration of the concrete due to the absence of the sealant is the most rapid of all harmful activities to the entire structure. As with other items of deterioration, the longer the period between maintenance, the greater and more expensive the work.

The entire top surface of the main superstructure was recoated in the Summer of 2019. All surfaces were scraped and cleaned with a wire brush before the primer and paint were reapplied. The painters applied several coats of paint that are clearly visible to any observer. The top surfaces should remain in excellent condition for many years to come. The entire top of the bridge deck was accessible from above. The paint used was the same as the bridge was originally covered in before construction of the Highway 50 overpass. There are some areas where the paint is peeling on the sides of the bridge so the excess paint is being put into spray cans for the city of Carson City to make repairs as they access the other maintenance items during the upcoming summer of 2020.

Sincerely,



Kenneth L. Dorr, P.E.  
KL Dorr Consulting, LLC