



**REGIONAL TRANSPORTATION COMMISSION
OF SOUTHERN NEVADA**

NOTICE AND AGENDA OF PUBLIC MEETING

**FREEWAY AND ARTERIAL SYSTEM OF
TRANSPORTATION OPERATIONS MANAGEMENT
COMMITTEE**

1:45 P.M., TUESDAY, SEPTEMBER 21, 2021

**NOTE:
Meeting Location
and Date Change**

**RTC ADMINISTRATION BUILDING
600 S. GRAND CENTRAL PARKWAY, ROOM 108
LAS VEGAS, NV 89106
(702) 676-1500**

Pursuant to State of Nevada Executive Department Declaration of Emergency Directives, attendees will be required to wear facemasks.

The Regional Transportation Commission of Southern Nevada (RTC) encourages citizen participation at its public meetings. During the initial Citizens Participation, any citizen may address the Freeway And Arterial System Of Transportation Operations Management Committee (Committee) on an item featured on the agenda. During the final Citizens Participation, any citizen may address the Committee on matters within the Committee's jurisdiction, but not necessarily featured on the agenda. No vote can be taken on a matter not listed on the posted agenda; however, the Committee can direct that the matter be placed on a future agenda. The RTC appreciates the time citizens devote to be involved in this important process.

With the rise in COVID-19 cases in Clark County, the RTC will be temporarily accepting public comment via email to be read aloud onto the record. Public comment relating to the RTC may be submitted via email to PublicComments@rtcsonv.com. Public comment via email submission must be received by 5:00 p.m. (Pacific Daylight Time) on the business day prior to the meeting. Public comment submissions received after 5:00 p.m. (Pacific Daylight Time) on the business day prior to the meeting will be included in the written record of the meeting. Please be sure to include your name and the agenda item number you wish to comment on. Also, indicate if you would like your comment read aloud on the record or just added to the backup for the record. Only the first 500 words of comments submitted to be read into the record will be read aloud. The remaining words will be included in the written record.

The RTC keeps the official record of all proceedings of the meeting. In order to maintain a complete and accurate record, copies of documents used during presentations should be submitted to the Recording Secretary.

The meeting room is accessible to the disabled. Assistive listening devices are available for the hearing impaired. A sign language interpreter for the deaf will be made available with 48 hours advance request to the RTC offices. Phone: 702-676-1500 TDD: 702-676-1834.

Additional language interpretation services are available upon request with a 48-hour advance notice to the RTC.

This agenda, including the supporting materials, is available at the RTC Administration Building, 600 S. Grand Central Parkway, Las Vegas, Nevada; the RTC's website, <http://www.rtcsonv.com>; or by contacting David Gloria at (702) 676-1623 or by email at GloriaD@rtcsonv.com.

In compliance with Nevada Revised Statute 241.035(4), the RTC shall create an audio and/or video recording of the meeting and retain such recording(s) for the required period of time.

THIS MEETING HAS BEEN PROPERLY NOTICED AND POSTED IN THE FOLLOWING LOCATIONS:

RTC
600 S. Grand Central Pkwy.
Las Vegas, NV 89106

RTC website
www.rtcsonv.com

Nevada Public Notice
<https://notice.nv.gov>

**FAST Operations Management Committee
Meeting Schedule
2021**

Meeting Date	Deadline to Call Meeting
January 7, 2021	December 17, 2021
February 4, 2021	Scheduled Meeting
March 3, 2021	February 11, 2021
April 1, 2021	Scheduled Meeting
May 6, 2021	April 15, 2021
June 3, 2021	Scheduled Meeting
July 1, 2021	June 10, 2021
August 5, 2021	Cancelled Meeting
September 21, 2021	Scheduled Meeting
October 19, 2021	September 28, 2021
November 16, 2021	Scheduled Meeting
December 21, 2021	November 30, 2021

Items 2, 3, 5, and 6 are items for possible action. Items 1, 4, 7, 8, and 9 are discussion items and no action can be taken. Please be advised that the Freeway and Arterial System of Transportation Operations Management Committee has the discretion to take items on the agenda out of order, combine two or more agenda items for consideration, remove an item from the agenda or delay discussion relating to an item on the agenda any time.

1. CONDUCT A COMMENT PERIOD FOR CITIZENS PARTICIPATION
2. APPROVAL OF THE MINUTES: Meeting of June 3, 2021 (FOR POSSIBLE ACTION)
3. DESIGNATE OFFICERS FOR 2021-2022 (FOR POSSIBLE ACTION)
4. RECEIVE A PRESENTATION ON THE TRAFFIC SIGNAL COMMUNICATION SYSTEM GAP ANALYSIS
5. RECEIVE THE FAST STATUS, ACTIVITY, AND CALL STATUS AND COMPLAINTS REPORTS (FOR POSSIBLE ACTION)
6. RECEIVE THE NEVADA DEPARTMENT OF TRANSPORTATION (NDOT)-FAST INTELLIGENT TRANSPORTATION SYSTEM OPERATIONS REPORT PERFORMED AS PART OF NDOT'S CONTRACTS (FOR POSSIBLE ACTION)
7. DISCUSS NEW TRANSPORTATION TECHNOLOGIES AND THEIR USE IN MEASURING, MONITORING, AND ENHANCING PERFORMANCE ON SOUTHERN NEVADA ROADWAYS
8. DISCUSS TOPICS OF INTEREST
9. CONDUCT A COMMENT PERIOD FOR CITIZENS PARTICIPATION

During the initial Citizens Participation, any citizen may address the Freeway and Arterial System of Transportation Operations Management Committee on an item featured on the agenda. During the final Citizens Participation, any citizen may address the Committee on matters within the Committee's jurisdiction, but not necessarily featured on the agenda. No vote can be taken on a matter not listed on the posted agenda; however, the Subcommittee can direct that the matter be placed on a future agenda.

With the rise in COVID-19 cases in Clark County, the Regional Transportation Commission of Southern Nevada (RTC) will be temporarily accepting public comment via email to be read aloud onto the record. Public comment relating to the RTC may be submitted via email to PublicComments@rtcsonv.com. Public comment via email submission must be received by 5:00 p.m. (Pacific Daylight Time) on the business day prior to the meeting. Public comment submissions received after 5:00 p.m. (Pacific Daylight Time) on the business day prior to the meeting will be included in the written record of the meeting. Please be sure to include your name and the agenda item number you wish to comment on. Also, indicate if you would like your comment read aloud on the record or just added to the backup for the record. Only the first 500 words of comments submitted to be read into the record will be read aloud. The remaining words will be included in the written record.

Each citizen must be recognized by the Chair. The citizen is then asked to approach the podium, state his or her name, and spell their last name for the record. The Chair may limit remarks to three minutes' duration.

The RTC keeps the official record of all proceedings of the meeting. In order to maintain a complete and accurate record, copies of documents used during presentations should be submitted to the Recording Secretary.

The RTC appreciates the time citizens devote to be involved in this important process.

The meeting room is accessible to the disabled. Assistive listening devices are available for the hearing impaired. A sign language interpreter for the deaf will be made available with a 48-hour advance request to the Regional Transportation Commission of Southern Nevada offices. Phone: 702-676-1500 TDD: 702-676-1834

In compliance with Nevada Revised Statute 241.035(4), the Regional Transportation Commission of Southern Nevada shall create an audio and/or video recording of the meeting and retain such recording(s) for the required period of time.

Any action taken on these items is advisory to the Regional Transportation Commission of Southern Nevada.

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

AGENDA ITEM

Metropolitan Planning Organization <input checked="" type="checkbox"/>	Transit <input type="checkbox"/>	Administration and Finance <input type="checkbox"/>
SUBJECT: INITIAL CITIZENS PARTICIPATION		
PETITIONER: M.J. MAYNARD, CHIEF EXECUTIVE OFFICER REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA		
RECOMMENDATION BY PETITIONER: THAT THE FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION OPERATIONS MANAGEMENT COMMITTEE CONDUCT A COMMENT PERIOD FOR CITIZENS PARTICIPATION		
GOAL: MAINTAIN AND IMPROVE TRANSPORTATION SYSTEM INFRASTRUCTURE		

FISCAL IMPACT:

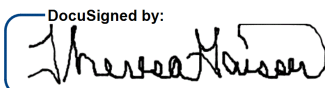
None

BACKGROUND:

In accordance with State of Nevada Open Meeting Law, the Regional Transportation Commission of Southern Nevada and Freeway and Arterial System of Transportation Operations Management Committee (Committee) shall invite interested persons to make comments. For the initial Citizens Participation, the public should address items on the current agenda. For the final Citizens Participation, interested persons may make comments on matters within the jurisdiction of the Committee, but not necessarily on the current agenda.

No action can be taken on any matter discussed under this item, although the Committee can direct that it be placed on a future agenda.

Respectfully submitted,

DocuSigned by:

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THERESA GAISSER, P.E., PTOE
Director of FAST

FAST OMC
Item #1
September 21, 2021

ssf

MINUTES
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION
OPERATIONS MANAGEMENT COMMITTEE
REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA
JUNE 3, 2021

These minutes were prepared in compliance with NRS 241.035. Text is in summarized rather than verbatim format. For complete contents, please refer to meeting recordings on file at the Regional Transportation Commission.

**THIS MEETING WAS PROPERLY NOTICED AND POSTED
IN THE FOLLOWING LOCATIONS ON MAY 27, 2021**

Clark County Government Center
500 S. Grand Central Pkwy.
Las Vegas, NV 89155

City of Henderson
Office of the City Clerk
240 Water Street
Henderson, NV 89015

CC Regional Justice Center
200 Lewis Ave.
Las Vegas, NV 89155

RTC
600 S. Grand Central Pkwy.
Las Vegas, NV 89106

RTC website
www.rtcnv.com

Nevada Public Notice
website
<https://notice.nv.gov>

CALL TO ORDER

Ms. Gena Kendall, Chair, called the meeting to order at 9:30 a.m. in Meeting Room A105 of the Traffic Management Center.

MEMBERS PRESENT:

Gena Kendall, Chair, Regional Transportation Commission of Southern Nevada
Massoud Javid, Vice Chair, Clark County Public Works
Michelle Castro, Nevada Department of Transportation (Alternate)
Eric Hawkins, City of Henderson (Alternate)
Joseph Norby, City of Las Vegas
Tim Reesman, City of North Las Vegas

MEMBERS ABSENT:

None

RTC/FAST STAFF:

John Penuelas, Senior Director of Engineering
Theresa Gaisser, Director of Freeway and Arterial System of Transportation (FAST)
Lonnie Brown, FAST Manager of Traffic Systems Maintenance
Joanna Wadsworth, FAST Manager of Engineering
Raymund Berlo, FAST Traffic Systems Maintenance Supervisor
David Crisler, FAST Traffic Operations Supervisor
Richard Sorenson, FAST Traffic Systems Maintenance Supervisor
Walter Vodrazka, Jr., FAST Principal Project Engineer
Kala Peterson, Public Affairs Administrator
Carmen Perkins, FAST Administrative Specialist

INTERESTED PARTIES:

None

FAST OMC
Item #2
September 21, 2021

Item:
1. CONDUCT A COMMENT PERIOD FOR CITIZENS PARTICIPATION
Comments: No comments were made.
Motion: No motion was necessary.
Vote/Summary: No vote was taken.

Item:
2. APPROVAL OF THE MINUTES: Meeting of April 1, 2021 (FOR POSSIBLE ACTION)
Comments: No comments were made.
Motion: Mr. Massoud Javid, Clark County Public Works, made a motion to approve the minutes.
Vote/Summary: 6 Ayes. 0 Nays. The motion carried. Ayes: Michelle Castro, Eric Hawkins, Massoud Javid, Gena Kendall, Joseph Norby, and Tim Reesman Nays: None Absent: None

Item:
3. RECEIVE THE FAST STATUS, ACTIVITY, AND CALL STATUS/COMPLAINT REPORTS (FOR POSSIBLE ACTION)
Comments: <p>Mr. Lonnie Brown, Manager of Traffic Systems Maintenance of the Freeway and Arterial System of Transportation (FAST) for the Regional Transportation Commission of Southern Nevada (RTC), reported on maintenance activities, beginning with an update on the Arterial Management System (AMS). He recounted that FAST staff continues working with the RTC Information Technology (IT) Department on the RTC core switch project. The project involves replacing the Layer 3 switches throughout the Las Vegas Valley (Valley) and other Intelligent Transportation System (ITS) devices. He then shared that FAST staff installed Layer 2 switches on Losee Road at Centennial Parkway to Clark County 215 (CC-215). These switches were installed in the traffic cabinet at signalized intersections to collect traffic data and return it to the Traffic Management Center (TMC). FAST staff also installed network switches near Las Vegas Boulevard at Main Street and North 5th Street. He added that FAST staff installed network switches and Closed Circuit Televisions (CCTV) on Cactus Avenue from Dean Martin Drive to Rainbow Boulevard. He also reported that FAST staff had continued to work with RTC IT and the Las Vegas Metropolitan Police Department (LVMPD) on LVMPD's CCTV project.</p> <p>Next, Mr. Brown reported on the Freeway Management System (FMS). He announced the near completion of phase one of the Nevada Department of Transportation's (NDOT) migration project between Hub 18 and Primm. He remarked that this project would move NDOT's traffic network off the FAST network and onto its own standalone network. He said that FAST staff had also worked on the Centennial Bowl northwest interchange project. Currently, Mr. Brown reported that FAST staff is working on the Interstate 15 (I-15) and CC-215 northeast interchange project. He also commented that FAST staff had begun the Stand Alone Testing (SALT) for NDOT's 3716 project, State Route 160/Mountain Springs.</p>

Then, Mr. Brown reported on the fiber team's efforts, noting that FAST staff located and spliced the fiber cable and Communications Distribution Cable Assembly (CDCA) at Losee Road at CC-215 eastbound and westbound. He added that FAST staff had spliced and tested fiber pairs on Warm Springs Road at Las Vegas Boulevard and at Eastern Avenue to create a redundant path between the TMC and Hub 12. He then reported that FAST staff had spliced fiber cable on Cactus Avenue at Dean Martin Drive, Jones Boulevard, and Rainbow Boulevard to bring those signalized intersections into the circuit. FAST staff also completed the NDOT requested redundant fiber paths between the TMC and NVEnergy, TMC and Hub 5, Hub 5 and Hub 19, Hub 5 and Hub 17, Hub 17 and Hub 20, and Hub 17 and Hub 12 for NDOT's network migration project. Mr. Brown concluded his report by noting that FAST staff had completed the splice diagrams for NDOT's Centennial Bowl project and Clark County's Decatur Boulevard project.

Next was the Operations report. Ms. Theresa Gaisser, Director of FAST for the RTC, introduced Ms. Joanna Wadsworth as the newly hired FAST Manager of Engineering. Ms. Wadsworth reported on traffic engineering and operations projects, sharing that FAST staff continued working on the transition of the signal controllers off the i2 system onto the Active Traffic Management System (ATMS) and mentioned that there was only one intersection left to convert. Mr. Walter Vodrazka, FAST Principal Project Engineer for the RTC, noted that the remaining intersection was located at Town Center Drive at CC-215.

Next, Ms. Wadsworth reported that FAST staff continued monitoring corridors across the Valley as roadway traffic continued to increase, changing signal timing as needed. This included monitoring of the COVID-19 vaccination and testing locations across the Valley. Ms. She remarked that FAST staff had provided support for special events at the T-Mobile arena, where FAST staff is located both inside and outside the arena monitoring traffic patterns. Additionally, FAST staff monitored other sporting and special events at the Las Vegas Ballpark and Sam Boyd Stadium. She continued to say that staff also watch for an increase in hotel occupancy. She then relayed that as conventions come back to Las Vegas, FAST staff continues to prepare timing plans for these events.

Moving on, Ms. Wadsworth commented that FAST staff had programmed several controllers, including at Las Vegas Boulevard at Main Street, North 5th Street, Grand Teton Drive at Hualapai Way, and modified 53 controllers for various reasons. FAST staff were very busy during the past month, assisting with multiple roadway closures, including I-15 northbound at Cheyenne Avenue, US 95 northbound between Cheyenne Avenue to Craig Road, CC-215 eastbound to US 95 northbound ramp, Blue Diamond Road at Hinson Street, and Dean Martin Drive at Blue Diamond Road. FAST staff had begun checking for field changes and the input/output parameters in the controllers with active communication. Thus far, FAST staff completed the check for the intersections within City of Las Vegas and initiated the Clark County intersections. Ms. Wadsworth completed her report by noting that FAST staff responded to complaints, assisted agency staff, and retimed intersections, interchanges, and corridors across the Valley, including Sahara Avenue, Charleston Boulevard from I-15 to Las Vegas Boulevard, Las Vegas Boulevard at Harmon Avenue, and Boulder Highway at Galleria Drive.

Ms. Gaisser shared that FAST staff hosted a regional event planning meeting, held on the first Thursday of the month, where representatives from local agencies, local law enforcement, as well as representatives from various large venues join to discuss upcoming events and the regional impact of those events. The meeting is also open to the traffic control companies that manage on-site traffic coordination at the venues.

Chair Gena Kendall, RTC, inquired if the regional event planning meeting was being held at the TMC. Ms. Gaisser stated that the meeting had previously been held virtually, but would be transitioning to both virtual and in-person meetings.

Ms. Gaisser referenced the AMP and Freshdesk reports, derived from tracked data and work orders by FAST staff. She indicated that the data and work orders referenced occurred from March 2021 through May 2021, noting that FAST staff had received 159 media requests. She pointed out that those requests were typically made in the early morning hours or afternoon hours as media outlets run the traffic portion of their broadcast. Additionally, FAST staff assisted with traffic signal calls, seeing orange and signal control queries, traffic incidents, and askfast@rtcsonv.com requests.

Next, Ms. Gaisser highlighted some items under the AMS portion of the reports. The report showed a breakdown of the 135 total work orders. The largest concentration of work orders had been under Clark County. She then recalled that of the 82 work orders under the FMS portion of the reports, 13 percent of the work orders were for vandalism. She pointed out that in the last report, 14 percent of all work orders were for vandalism, noting that the trend continues. She added that FAST is working with the local owning agencies by sharing those reports and looking for ways to further secure infrastructure.

Motion:

No motion was necessary.

Vote/Summary:

No vote was taken.

Item:

4. RECEIVE THE NEVADA DEPARTMENT OF TRANSPORTATION (NDOT)-FAST INTELLIGENT TRANSPORTATION SYSTEM OPERATIONS REPORT PERFORMED AS PART OF NDOT'S CONTRACTS (FOR POSSIBLE ACTION)

Comments:

Following a detailed handout [attached], Ms. Michelle Castro, Nevada Department of Transportation (NDOT), read entries from the report.

Projects Under Construction

Project Neon (Contract 3624)

In May of 2021, the Traffic Operations Technology Services received access to the test result documents for review and is in the final steps to be completed.

Projects Under Design

Adaptive Lighting Study, Standards and Pilot Design

The concept of design is out for review with comments anticipated by June 10, 2021.

Fast Project K2, State Route 163 (SR163) from US 95 to Arizona State Line

The NVEnergy permitting process with the Bureau of Land Management (BLM) has delayed this project for 30 months. The NVEnergy permit with BLM is currently on track and this project is scheduled to document in February of 2023.

ITS Programs & Projects

Wrong Way Driver (WWD) Projects Update

NDOT's Traffic Operations staff is currently reviewing testing results and drafting a final report and recommendation for the technical specification requirements. The next WWD Federal Highway Administration report is due on August 1, 2021.

Current Wrong Way Driver (WWD) Projects:

- Reno – Contract 3653 (TM4, US 395 north of Interstate 80)
- Reno – Contract 3711 (Interstate 80 from Nevada Stateline to Keystone Ave)
- Reno Spaghetti Bowl Express
- Carson – Contract 3763 (Interstate 580 Fairview to north Carson)
- Las Vegas – Contracts 3697 (US 93 Garnet Interchange), 3724 (US 95 3C, & 3D/E)
- Las Vegas – Contract 3692 (US 95 2B/5)
- Las Vegas – Contract 3683 (Interstate 15 Starr Avenue interchange)

511 Traveler Information

The first draft of the Advanced Traveler Information System (ATIS) recommendation report is complete. Once the final draft is ready, it will be sent for review and approval by NDOT's Operation Steering Committee. Currently, NDOT's Traffic Operations is recommending moving forward with procurement for a new system. This decision was based on evaluation of the existing system, input received at stakeholder engagement meetings, evaluation of national ATIS use cases, and a benefit/cost analysis. Upon completion of the recommendations report, the contractor will begin development of the system requirements.

Traffic Incident Management (TIM) Coalition

The TIM Coalition is returning to in-person meetings beginning in June 2021. The Las Vegas TIM Coalition Meeting will be held on June 17, 2021 at the Highway Patrol Southern Command/FAST TMC Building.

Freeway Service Patrol

The next Freeway Service Patrol coordination meeting is scheduled for June 2021. The contractor for the Freeway Service Patrol is piloting HAAS Alert. Coordination will be done in the future to align this with the RTC-FAST Pilot project.

Transportation Systems Management and Operations (TSMO)

The NDOT Transportation Systems Management and Operations (TSMO) website is still in development. The website will serve as the NDOT hub for all TSMO-related information. The Business Case for NDOT divisions is ready for review and will be sent for review in the coming weeks.

Hazmat

Significant progress has been made on the amendment for the Hazmat agreement. NDOT is shooting for a mid-June 2021 execution, with an informational item to the July 2021 NDOT Board of Directors meeting.

Waycare

Development platforms for the Tropicana Infrastructure for Rebuilding America (INFRA) grant and the updated Nevada Highway Patrol platform will begin in June 2021. Continuation of the existing operations and management agreement is ready for execution and will be completed shortly.

NDOT FAST Operations Agreement

The Kick-off meeting was scheduled for June 15, 2021. Notice to proceed was scheduled for July 1, 2021. Working on arranging training sessions for the life cycle cost (LCC) tool and AMP platform.

Intelligent Transportation Systems (ITS) Strategic Deployment Plan

The ITS Strategic Deployment Plan (SDP) AMP application is now live and will serve as the primary method for accessing SDP information. A new round of district engagement will begin summer of 2021 to identify new projects to add to the SDP. Additionally, NDOT's Traffic Operations is working on developing an agreement to create an ITS Master Plan. This master plan will also identify ITS Projects to add to the SDP.

Motion:

No motion was necessary.

Vote/Summary:

No vote was taken.

Item:

5. DISCUSS NEW TRANSPORTATION TECHNOLOGIES AND THEIR USE IN MEASURING, MONITORING, AND ENHANCING PERFORMANCE ON SOUTHERN NEVADA ROADWAYS

Comments:

Ms. Joanna Wadsworth, Manager of Engineering of the Freeway and Arterial System of Transportation (FAST) for the Regional Transportation Commission of Southern Nevada (RTC), shared that FAST had funding allocations for Fiscal Year (FY) 2022 and had started to scope projects. She noted that FAST had three projects. The first project was the Unified Planning Work Program (UPWP) Transportation Systems Management and Operations (TSMO) case development. She recalled that in 2020, a presentation was provided to the FAST Operations Management Committee (Committee) on the Mobility Roadmap, a previous project of FAST. During the evaluation of the Roadmap, there were some lessons learned that put an emphasis on what was needed for the processes and procedures to link goals to the roadmap focus areas, which is part of the TSMO process. This UPWP project would provide the opportunity to take the first planning step to begin the discussion on the TSMO business case for Southern Nevada. She added that the business case would link to the Nevada Department of Transportation (NDOT) TSMO plan. She then stated that FAST anticipated the scope to include an educational component to understand TSMO and its importance, an inventory of current programs, an understanding of the benefits of having a TSMO plan in place, and development of recommendations of the readiness and desirability of RTC and local agencies to pursue a full TSMO plan. Ms. Wadsworth stated that FAST hoped to have the scope done and advertised by the end of summer 2021 and anticipated to have a consultant on board by fall or winter of 2021.

Next, Ms. Wadsworth shared that the second project would be an adaptive signal-timing program. She reminded the Committee that the results from the Eastern Avenue adaptive signal-timing project were presented in past Committee meetings. With the success of that project, other corridors would be evaluated for adaptive signal timing. She related that FAST staff is currently evaluating other vendors within the adaptive space as well as the criteria in which to evaluate vendors and corridors. Once that criterion is determined, FAST staff would like to discuss potential corridors that could benefit from adaptive signal timing. She indicated that FAST had funding available in FY 2022 for a second corridor.

Then, Ms. Wadsworth informed the Committees that FAST would be working on a Regional Traffic Signal Repair and Replacement project. Funding was available over the next four FY budgets. She said that detection is a failing point in the traffic signal operations, and FAST has allocated funding in order to repair and upgrade detection at traffic signals as needed. FAST staff understands that this effort would include discussions about the detection process, maintenance schedule, and policies and procedures. She indicated that FAST anticipated a lot of coordination as the project ramps up. She emphasized that as FAST develops these and other projects, communication between the local entities would be critical in

order to scope these projects adequately and address regional needs. Ms. Wadsworth relayed that highlights and updates would be provided in future Committee meetings as projects progress.

Ms. Theresa Gaisser, Director of FAST for the RTC, shared that the updated contract between NDOT and FAST would go into effect on July 1, 2021 through June 30, 2023. The contract encompasses the Freeway Management System (FMS) services that FAST provides to NDOT. She commented that the contract negotiations encompassed six months and was rewritten in its entirety to reflect the current state of operations between NDOT and FAST.

Next, Ms. Gaisser shared information on the Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD) US 95 Integrated Safety Technology Corridor project. She said that RTC staff was working on branding, such as a shorter name for the project. Continuing, she recounted how the federal grant was awarded to the RTC and project partners including NDOT, Nevada Highway Patrol (NHP), Waycare, and the University of Nevada, Las Vegas. She stated that the four-year project would study the portion of US 95 from the Interstate 15 (I-15) interchange to Summerlin Parkway. The project would include an expansion of the active traffic management (ATM) gantry system, wrong way driver technology on the off ramps, High-Occupancy Vehicle (HOV) detection, as well as NHP strategic traffic management sites. She reminded the Committee that the strategic traffic management sites are raised platforms on the side of the highway, where NHP officers park their vehicles during peak hours of operation to encourage drivers to decrease excessive speeds. Collected data showed that there had been an improvement in both reducing the number of crashes and speeding during the strategic operational hours. She also remarked that during the project duration, RTC staff will be handling the program management, analysis, evaluation, and operation. Meanwhile, NDOT would handle the construction operations, system engineering, design, and construction of the project. She stated that the Committee would receive project updates in future meetings.

Then, Ms. Gaisser informed the Committee that the Waycare contract had been renewed with an expanded scope. She clarified that Waycare was the artificial intelligence platform that both NDOT and FAST used for traffic incident management. She shared that the expanded component on the platform was for the United States Department of Transportation's Infrastructure For Rebuilding America (INFRA) I-15 Tropicana Avenue grant project, which will bring in a regional traffic events management element to the Waycare platform. The contract will run from June 1, 2021 to June 30, 2026.

Continuing, Ms. Gaisser shared additional Capital Improvement Program projects that FAST would be working on. FAST would be procuring back-up power and cooling at Hub facilities for the FAST network as well as an Intelligent Transportation Systems masterplan. Ms. Gaisser stated that as FAST moved forward with projects, progress would be shared with the Committee in future meetings.

Mr. Joseph Norby, City of Las Vegas, recalled that a contractor previously performed repairs and replacements for the Regional Traffic Signal Repair and Replacement project. He inquired whether the intent for the project was to have a contractor on-call to handle detection issues, or would funding be made available for local agencies to procure a contractor or perform in-house repair or replacements. Ms. Gaisser responded that with the daily report of signal issues in the overnight hours, FAST had an understanding of detection issues at all of the signalized intersections in Southern Nevada. Those signal issues had been identified and tracked for the past five years. She indicated that FAST intended to work with individual agencies to determine if those intersections had been repaired and the list would be adjusted accordingly. The remaining intersections would be included in the overall project to be advertised as one contract. She pointed out that this effort would reset the baseline of all signal detection in Southern Nevada under one contract in order to give local agencies the availability to then continue to

maintain and update failed signal detection as it occurred. This project would be coordinated over a series of discussions among all the local agencies to discuss the list of identified signals with detection issues, detection technology being utilized, and work with the various local signal technician teams on the best approach for scheduling repairs and replacements.

Mr. Walter Vodrazka, Principal Project Engineer of FAST for the RTC, asked if the project would also include pedestrian detection. Ms. Gaisser answered in the affirmative.

Motion:

No motion was necessary.

Vote/Summary:

No vote was taken.

Item:

6. DISCUSS COMMITTEE TOPICS OF INTEREST

Comments:

Mr. John Peñuelas, Senior Director of Engineering for the RTC, advised the Freeway and Arterial System of Transportation (FAST) Operations Management Committee (Committee or OMC) that during the May 27, 2021 Executive Advisory Committee (EAC) meeting, RTC staff recommended the modification of the interlocal agreement and RTC Policies and Procedures integrating the Operations Subcommittee and the Committee. He shared that there had been no objections from the EAC and that staff would move forward with the process. He explained that due to the governance of the Operations Subcommittee, it created a direct line to the RTC Board of Commissioners (Board), which would streamline funding requests and the agencies' capital improvement program process. Mr. Peñuelas remarked that since the EAC is comprised of the Planning Directors from the local agencies and NDOT, it would provide a good connection to overall transportation planning in the region. He asked that members provide input to determine the most efficient way to combine the two meetings and to also determine the more appropriate meeting location and frequency.

Chair Gena Kendall, RTC, commented that she looked forward to combining both meetings since the information provided in the FAST OMC meeting was valuable, and it seemed at times that FAST staff was duplicating efforts by providing information at both meetings. Mr. Peñuelas said that when it comes to the dissemination of information and presentations, the change would create an ease to roll over agenda items to the EAC and essentially make it easier to comprise the agenda and facilitate the meeting. He then added that RTC staff would be bringing an agenda item forth to the EAC for approval in July 2021 to finalize the change. Once approved, the portion of the FAST agreement that established the FAST OMC would be revised and approved by the RTC Board and the member agencies. He stated that updated would be shared as the process progressed.

Ms. Theresa Gaisser, Director of FAST for the RTC, gave an update on core and hub upgrades. She reminded the Committee that this project was procured in 2020 and included the equipment to update the core and hub, which manages all of the Intelligent Transportation Systems network that comes into the FAST facility and throughout Southern Nevada. She shared that the project was a joint effort between the RTC Information Technology Department and FAST staff as well as local agencies. She further explained that the project entails upgrading all of the switches in the network as well as the main core at the TMC. This project was at the beginning of the implementation phase, but all equipment had been configured. The project was anticipated to take about another year. Ms. Gaisser noted that FAST staff was moving slowly through the project. Ongoing testing were being conducted at the Hub 0 cabinet located at the Traffic Management Center. She stated that FAST staff had started coordinating with Clark County and City of Henderson staff at Hub 18 to start implementing the upgrade. The upgrade would

facilitate dynamic internet protocol (IP) addressing, which was different than what was currently being used. She further explained that the change would provide more flexibility and allow the network to be more apt for future upgrades instead of just bringing it up to current standards. Ms. Gaisser then introduced Mr. Richard Sorenson, Traffic Systems Maintenance Supervisor of FAST for the RTC, who had been deeply involved in the implementation and testing of the upgrade.

Chair Kendall asked how the upgrade was different from what was currently being implemented. Mr. Sorenson stated that the current model was implemented in 2004 with technology from the late 1990s. He explained that the system was a flat system and minimal cyber security was built into that type of system. The system had no separation between the hubs or core switch at the TMC. This project would isolate the hubs and greatly diminish the ability to hack into the system. He added that another advantage to the upgrade was that databases of static IP addresses, for every 30,000 devices located around the Las Vegas Valley, would no longer be needed. Therefore, the scalability of the system would improve as well. He went on to say that, currently, the amount of IP addresses available was very limited and that with the upgrade, if a new switch was added to a hub, about 65,000 new IP addresses would be made available. Ms. Gaisser then commented that the intention of the upgrade was to make it more feature compatible, improve the resiliency of the system, and improve opportunities for continuity of operations of the system in addition to the cyber security elements that have been installed already.

Mr. Walter Vodrazka, Principal Project Engineer of FAST for the RTC, shared that FAST staff had provided an overview of the project and conducted a demo for representatives from the City of Henderson and the City of Las Vegas. He added that additional meetings would be set up with representatives from the City of North Las Vegas and Clark County. Mr. Vodrazka encouraged the Committee to bring any components that were IP addressable to make this transition easier in the future. He also shared that it would be beneficial that the agencies' traffic signal technicians to attend the meetings as well.

Motion:

No motion was necessary.

Vote/Summary:

No vote was taken.

Item:

7. CONDUCT A COMMENT PERIOD FOR CITIZENS PARTICIPATION

Comments:

No comments were made.

Motion:

No motion was necessary.

Vote/Summary:

No vote was taken.

ADJOURNMENT

The meeting adjourned at 10:12 a.m.

Respectfully submitted,

David Gloria

For

Carmen Perkins, Transcription Secretary

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

AGENDA ITEM

Metropolitan Planning Organization <input checked="" type="checkbox"/>	Transit <input type="checkbox"/>	Administration and Finance <input type="checkbox"/>
SUBJECT: DESIGNATE OFFICERS FOR 2021-2022		
PETITIONER: M.J. MAYNARD, CHIEF EXECUTIVE OFFICER REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA		
RECOMMENDATION BY PETITIONER: THAT THE FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION OPERATIONS MANAGEMENT COMMITTEE DESIGNATE OFFICERS FOR 2021-2022 (FOR POSSIBLE ACTION)		
GOAL: ENHANCE PUBLIC AWARENESS AND SUPPORT OF THE REGIONAL TRANSPORTATION SYSTEM		

FISCAL IMPACT:

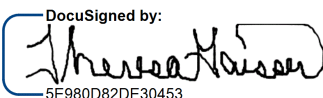
None

BACKGROUND:

The Regional Transportation Commission of Southern Nevada (RTC) Policies and Procedures for the Freeway and Arterial System of Transportation (FAST) Operations Management Committee (Committee) provide that the Chair and Vice Chair of the Committee be rotated alphabetically by voting entity and elected annually.

Currently, the RTC serves as Chair and Clark County serves as Vice Chair. In accordance with the RTC Policies and Procedures, staff recommends that Clark County hold the office of Chair and the City of Henderson hold the office of Vice Chair for the term of 2021-2022.

Respectfully submitted,

DocuSigned by:

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THERESA GAISSER, P.E., PTOE
Director of FAST

FAST OMC
Item #3
September 21, 2021

ssf

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

AGENDA ITEM

Metropolitan Planning Organization <input checked="" type="checkbox"/>	Transit <input type="checkbox"/>	Administration and Finance <input type="checkbox"/>
SUBJECT: TRAFFIC SIGNAL COMMUNICATION SYSTEM GAP ANALYSIS		
PETITIONER: M.J. MAYNARD, CHIEF EXECUTIVE OFFICER REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA		
RECOMMENDATION BY PETITIONER: THAT THE FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION OPERATIONS MANAGEMENT COMMITTEE RECEIVE A PRESENTATION ON THE TRAFFIC SIGNAL COMMUNICATION SYSTEM GAP ANALYSIS		
GOAL: IMPROVE THE EFFICIENCY AND EFFECTIVENESS OF THE TRANSPORTATION SYSTEM AND AIR QUALITY BY MANAGING CONGESTION		

FISCAL IMPACT:

None

BACKGROUND:

The goal of the Traffic Signal Communication System Gap Analysis is to develop a time-phased implementation plan to expand arterial management system (AMS) network connectivity via fiber optic communications to all traffic signal systems operated and maintained by the City of Las Vegas (City). The City owns, operates, and maintains over 600 signalized intersections within its jurisdictional boundaries, of which approximately only 60 percent are connected to the region's AMS network via a reliable, high-speed communication medium. Successful systems are highly dependent on the availability of reliable communications to transmit a variety of real-time information for use in deploying dynamic traffic solutions. Southern Nevada's current AMS communications network is comprised of fiber optic cable, copper interconnect, and wireless radios. Of these, fiber optic cable infrastructure provides superior bandwidth, speed, reliability, and durability over its copper interconnect or wireless radio counterparts and is the City's preferred media, where feasible to implement. This study evaluates the current state of the AMS communication network within the City, with a focus on connections to signalized intersections. Prioritized recommendations will be developed for short- and long-term improvements to enhance and expand the AMS fiber optic communication network to achieve 100 percent connectivity to the City's existing and future traffic signal systems, as well as to RTC FAST communication hubs.

The project consultant will give a presentation on the overview of the project.

Respectfully submitted,

DocuSigned by:

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ANDREW KJELLMAN

Director of Metropolitan Planning Organization

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FAST OMC
Item #4
September 21, 2021

**REGIONAL TRANSPORTATION COMMISSION
OF
SOUTHERN NEVADA**

AGENDA ITEM

Metropolitan Planning Organization <input type="checkbox"/>	Transit <input type="checkbox"/>	Administration and Finance <input checked="" type="checkbox"/>
SUBJECT: FAST STATUS, ACTIVITY, AND CALL STATUS/COMPLAINT REPORTS		
PETITIONER: M.J. MAYNARD, CHIEF EXECUTIVE OFFICER REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA		
RECOMMENDATION BY PETITIONER: THAT THE FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION OPERATIONS MANAGEMENT COMMITTEE RECEIVE THE FAST STATUS, ACTIVITY, AND CALL STATUS AND COMPLAINTS REPORTS (FOR POSSIBLE ACTION)		
GOAL: MAINTAIN AND IMPROVE TRANSPORTATION SYSTEM INFRASTRUCTURE		

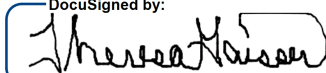
FISCAL IMPACT:

None

BACKGROUND:

The monthly Activity Reports Freeway Management System (FMS) and Arterial Management System (AMS), AMS Operations by Agency, and Complaints/Controllers Reports are included in the backup.

Respectfully submitted,

DocuSigned by:

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THERESA GAISSER, P.E., PTOE
Director of FAST

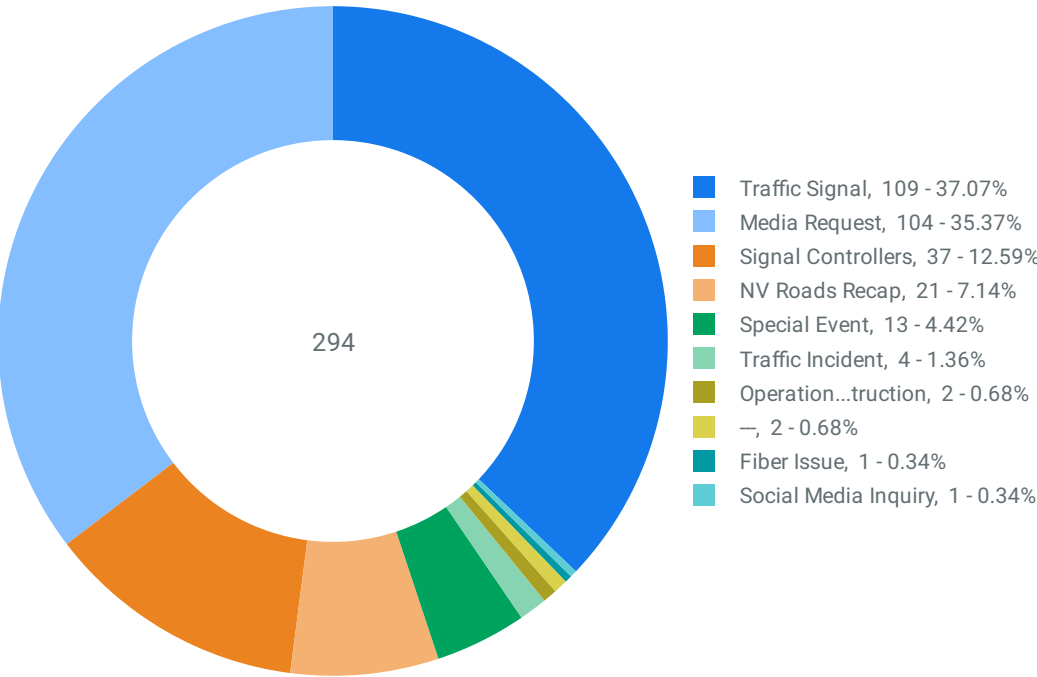
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***FAST OMC
Item #5
September 21, 2021***

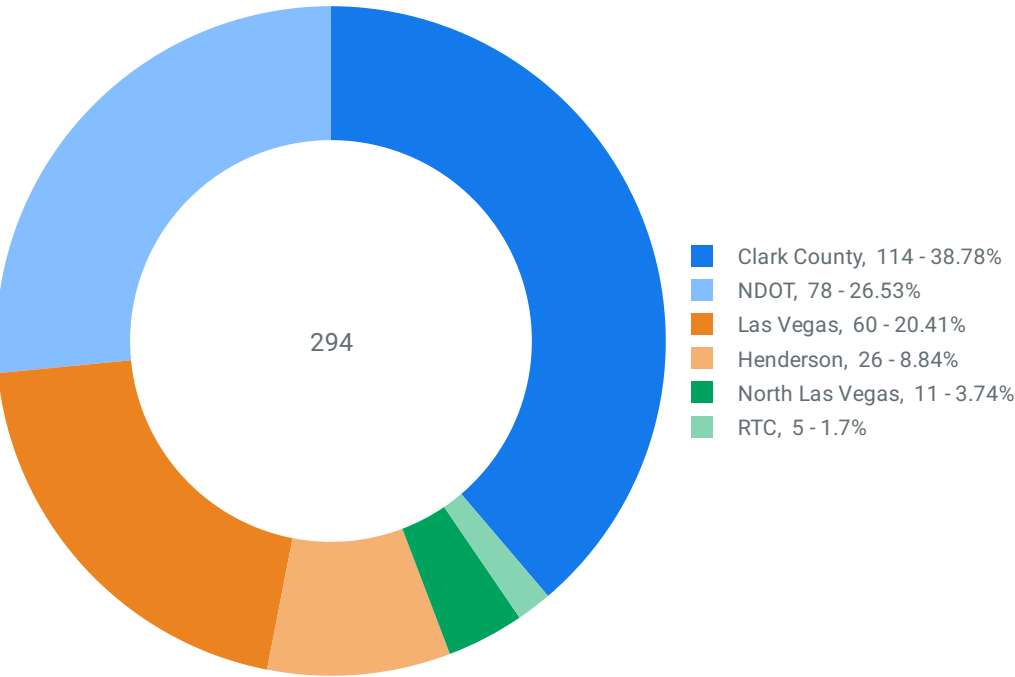
FAST OMC reports

August 26, 2021

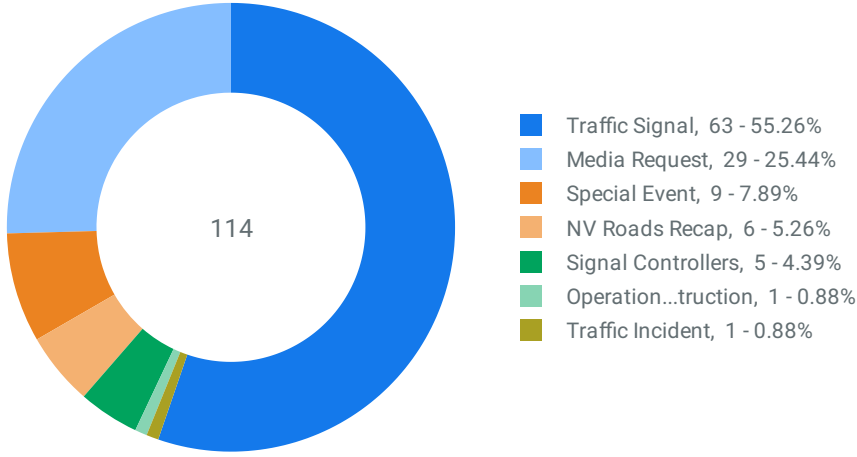
Total Issues by Type



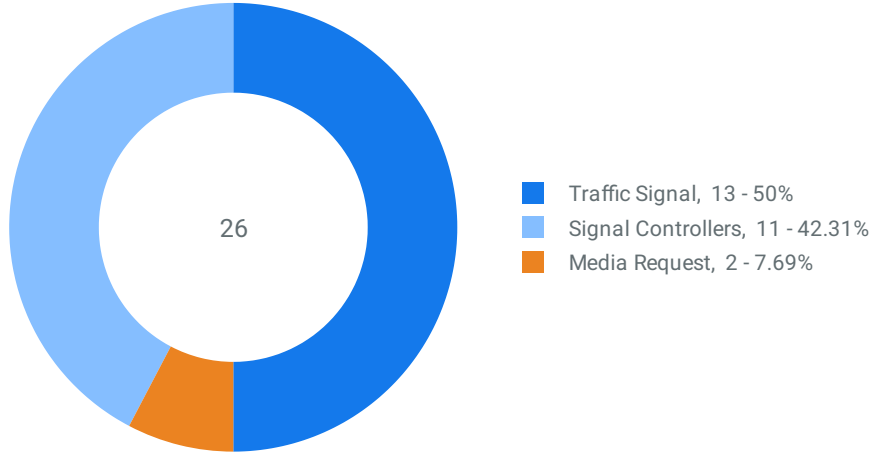
Total Issues by Agency



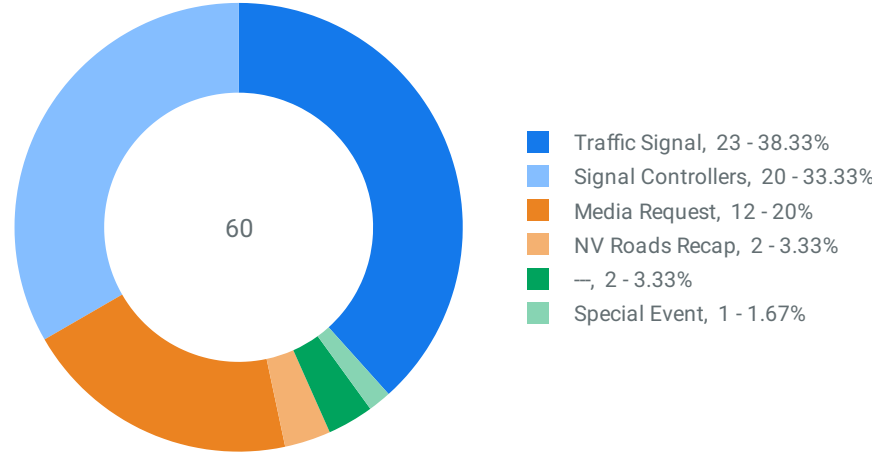
Issues by Type- Clark County



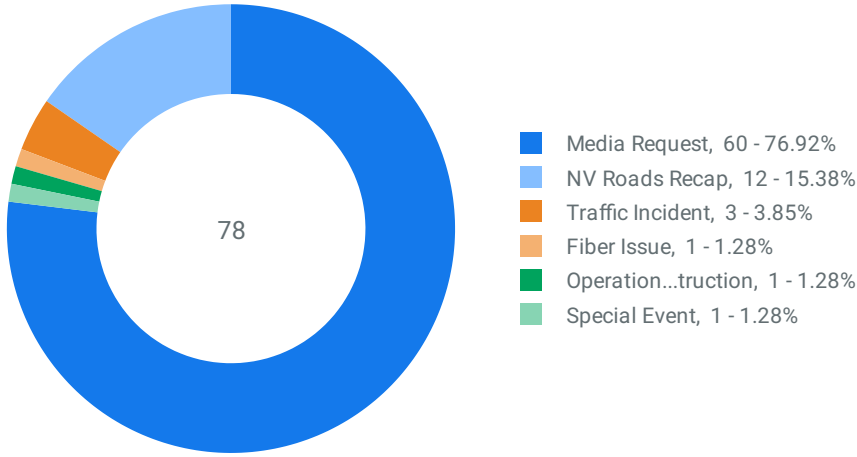
Issues by Jurisdiction- City of Henderson



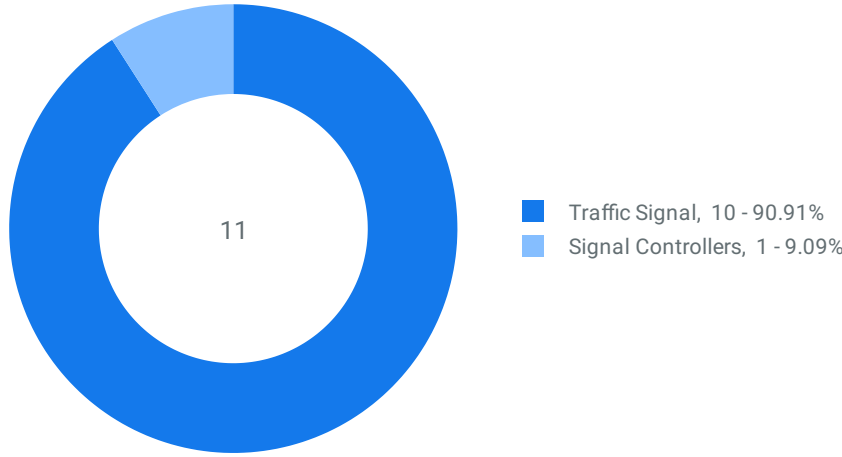
Issues by Type- City of Las Vegas



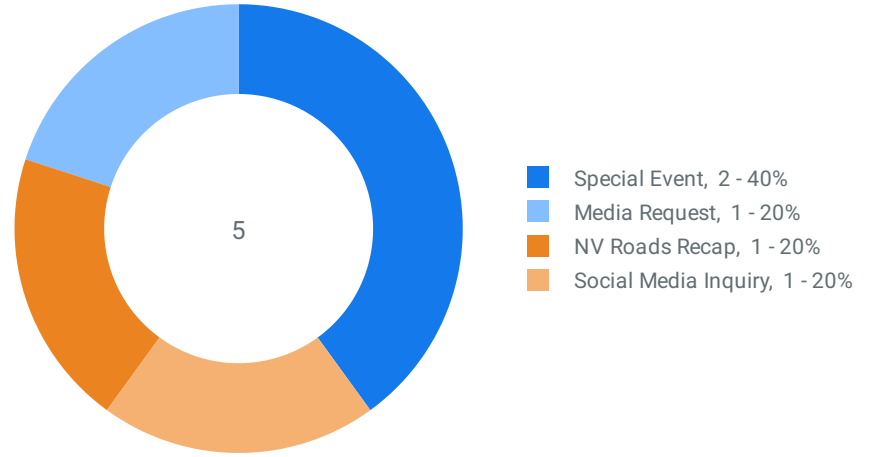
Issues by Type- NDOT



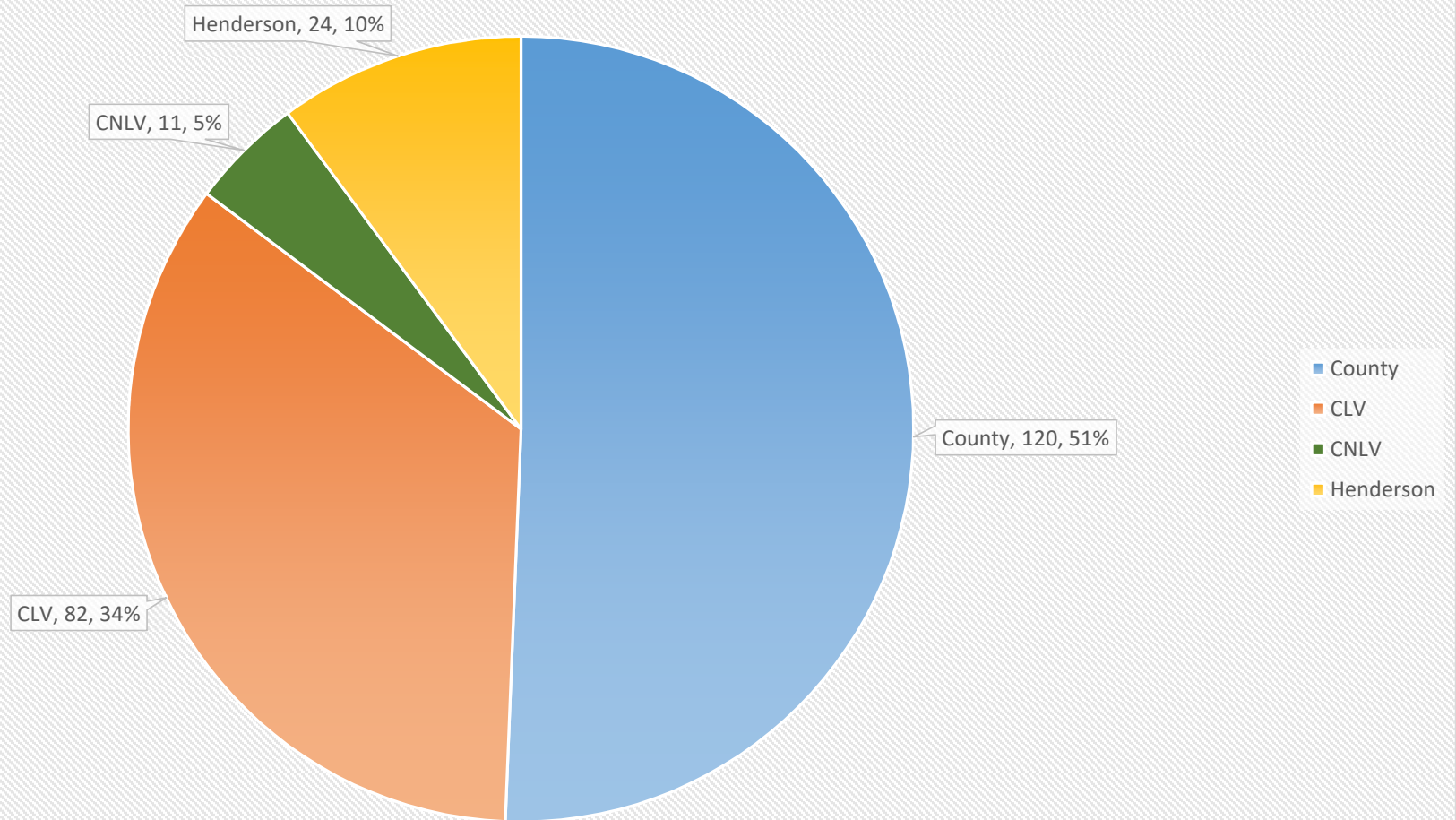
Issues by Type- City of N. Las Vegas



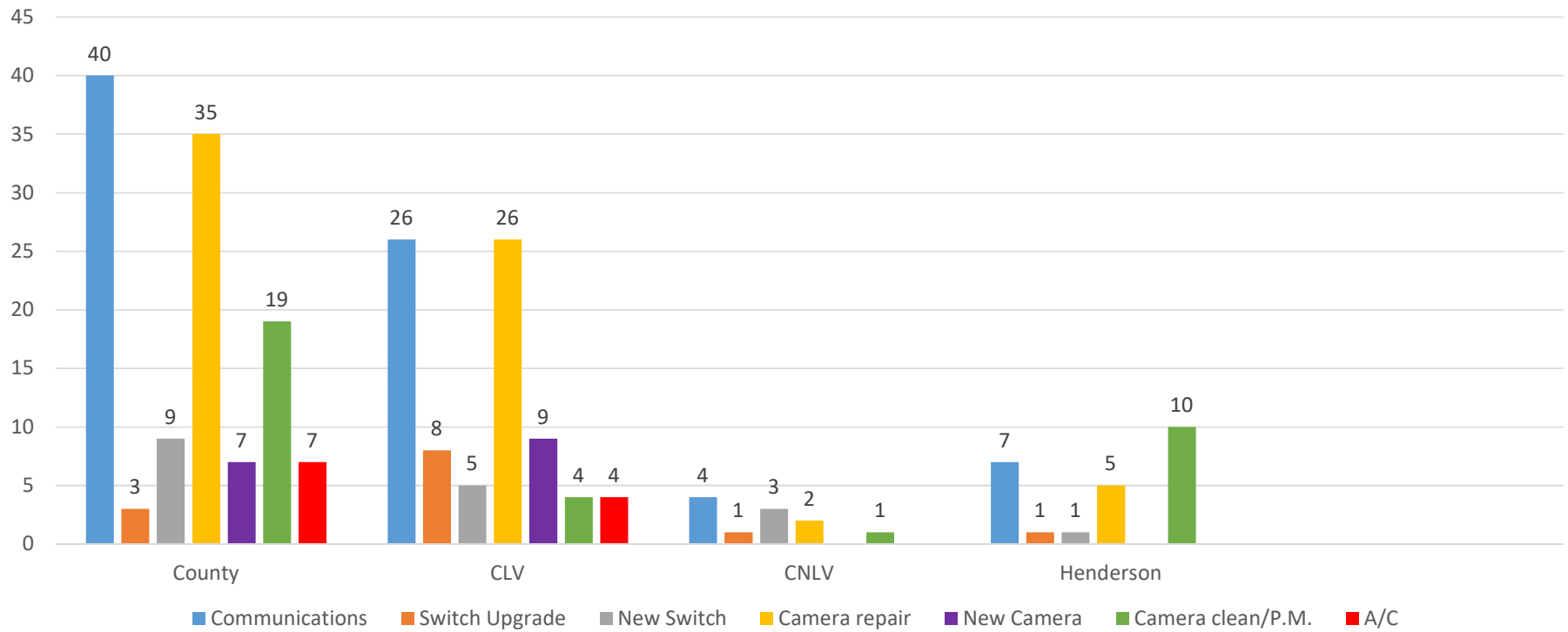
Issues by Type- RTC



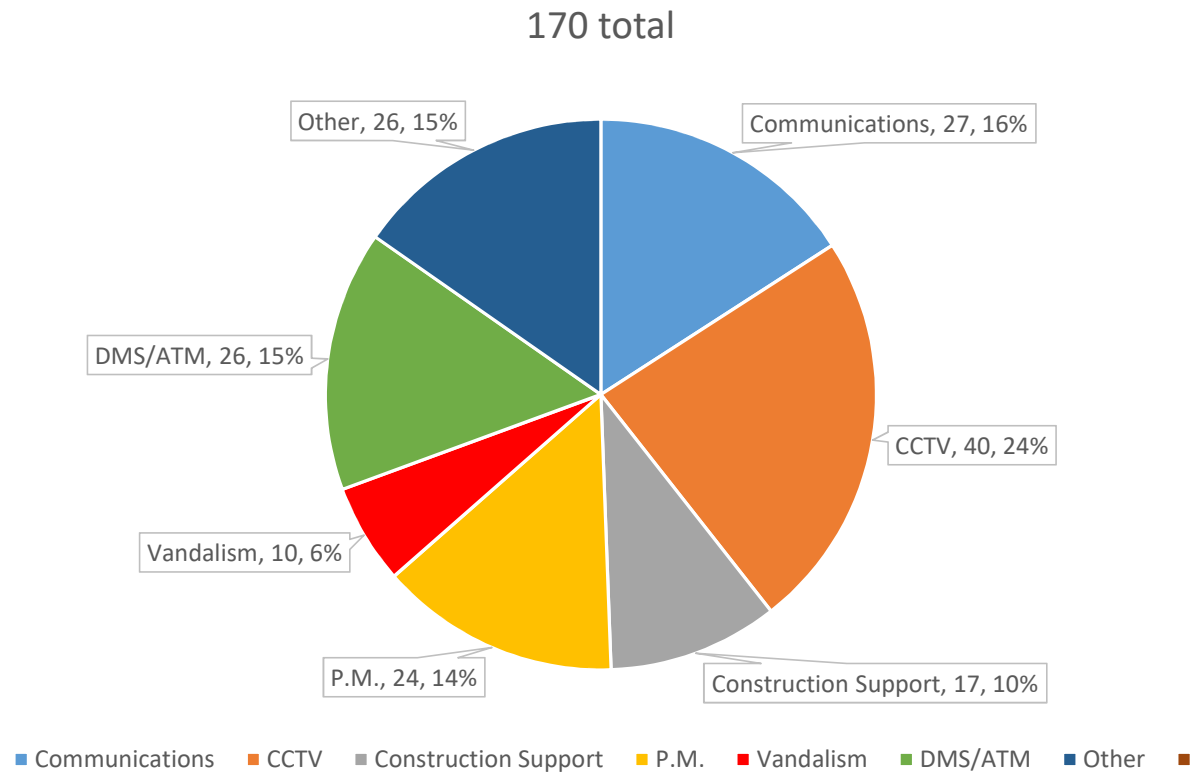
AMS Work Orders 237 total



AMS Issues Resolved



FMS Work Orders



REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

AGENDA ITEM

Metropolitan Planning Organization <input checked="" type="checkbox"/>	Transit <input type="checkbox"/>	Administration and Finance <input type="checkbox"/>
SUBJECT: NDOT-FAST ITS OPERATIONS REPORT		
PETITIONER: M.J. MAYNARD, CHIEF EXECUTIVE OFFICER REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA		
RECOMMENDATION BY PETITIONER: THAT THE FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (FAST) OPERATIONS MANAGEMENT COMMITTEE RECEIVE THE NEVADA DEPARTMENT OF TRANSPORTATION (NDOT)-FAST INTELLIGENT TRANSPORTATION SYSTEM OPERATIONS REPORT PERFORMED AS PART OF NDOT'S CONTRACTS (FOR POSSIBLE ACTION)		
GOAL: MAINTAIN AND IMPROVE TRANSPORTATION SYSTEM INFRASTRUCTURE		

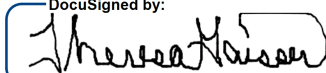
FISCAL IMPACT:

None

BACKGROUND:

A representative from the Nevada Department of Transportation will discuss the status of the Freeway and Arterial Integration Project of Freeway and Arterial System of Transportation (FAST) Packages, Interstate-15, U.S.-95, and other project-related issues concerning FAST expansion and integration.

Respectfully submitted,

DocuSigned by:

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THERESA GAISSER, P.E., PTOE
Director of FAST

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FAST OMC
Item #6
September 21, 2021

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

AGENDA ITEM

Metropolitan Planning Organization <input checked="" type="checkbox"/> [X]	Transit <input type="checkbox"/> []	Administration and Finance <input type="checkbox"/> []
SUBJECT: TRANSPORTATION TECHNOLOGIES		
PETITIONER: M.J. MAYNARD, CHIEF EXECUTIVE OFFICER REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA		
RECOMMENDATION BY PETITIONER: THAT THE FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION OPERATIONS MANAGEMENT COMMITTEE DISCUSS NEW TRANSPORTATION TECHNOLOGIES AND THEIR USE IN MEASURING, MONITORING, AND ENHANCING PERFORMANCE ON SOUTHERN NEVADA ROADWAYS		
GOAL: ENHANCE PUBLIC AWARENESS AND SUPPORT OF THE REGIONAL TRANSPORTATION SYSTEM		

FISCAL IMPACT:

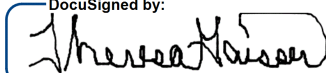
None

BACKGROUND:

The Freeway and Arterial System of Transportation (FAST) Operations Management Committee (OMC) and FAST personnel can share information about rapidly deploying transportation technologies and discuss opportunities to quantify and enhance system performance.

While no action may be taken on the subjects discussed, this item provides an opportunity for the exchange of information and may serve as the forum to recommend future FAST OMC agenda items.

Respectfully submitted,

DocuSigned by:

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THERESA GAISSER, P.E., PTOE
 Director of FAST

jw

FAST OMC
Item #7
September 21, 2021

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

AGENDA ITEM

Metropolitan Planning Organization <input checked="" type="checkbox"/>	Transit <input type="checkbox"/>	Administration and Finance <input type="checkbox"/>
SUBJECT: TOPICS OF INTEREST		
PETITIONER: M.J. MAYNARD, CHIEF EXECUTIVE OFFICER REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA		
RECOMMENDATION BY PETITIONER: THAT THE FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION OPERATIONS MANAGEMENT COMMITTEE DISCUSS TOPICS OF INTEREST		
GOAL: MAINTAIN AND IMPROVE TRANSPORTATION SYSTEM INFRASTRUCTURE		

FISCAL IMPACT:

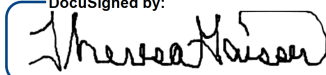
None

BACKGROUND:

The Freeway and Arterial System of Transportation Operations Management Committee (Committee) members can share information about activities, meetings, news, and other topics of interest in an informal manner.

While no action may be taken on the subjects discussed, this item provides an opportunity for the exchange of information and may serve as the forum to recommend future Committee agenda items.

Respectfully submitted,

DocuSigned by:

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THERESA GAISSER, P.E., PTOE
Director of FAST

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FAST OMC
Item #8
September 21, 2021

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

AGENDA ITEM

Metropolitan Planning Organization <input checked="" type="checkbox"/>	Transit <input type="checkbox"/>	Administration and Finance <input type="checkbox"/>
SUBJECT: FINAL CITIZENS PARTICIPATION		
PETITIONER: M.J. MAYNARD, CHIEF EXECUTIVE OFFICER REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA		
RECOMMENDATION BY PETITIONER: THAT THE FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION OPERATIONS MANAGEMENT COMMITTEE CONDUCT A COMMENT PERIOD FOR CITIZENS PARTICIPATION		
GOAL: MAINTAIN AND IMPROVE TRANSPORTATION SYSTEM INFRASTRUCTURE		

FISCAL IMPACT:

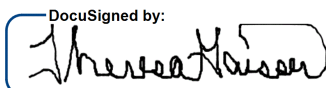
None

BACKGROUND:

In accordance with State of Nevada Open Meeting Law, the Regional Transportation Commission of Southern Nevada Freeway and Arterial System of Transportation Operations Management Committee (Committee) shall invite interested persons to make comments. For the initial Citizens Participation, the public should address items on the current agenda. For the final Citizens Participation, interested persons may make comments on matters within the jurisdiction of the Committee, but not necessarily on the current agenda.

No action can be taken on any matter discussed under this item, although the Committee can direct that it be placed on a future agenda.

Respectfully submitted,

DocuSigned by:

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THERESA GAISSER, P.E., PTOE
Director of FAST

ssf

FAST OMC
Item #9
September 21, 2021

