



5-YEAR TRANSPORTATION PLAN for DOUGLAS COUNTY, NEVADA

FY 2023/2024 through FY 2028/2029



EXP. 12/2024

Prepared for: Douglas County Regional Transportation Commission,
Tahoe-Douglas Transportation District Board, and
Douglas County Board of Commissioners

Prepared by: Douglas County Public Works

May 26, 2023

I. BACKGROUND INFORMATION

This 5-Year Transportation Plan has been developed to meet the projected short-term transportation needs of Douglas County from the current fiscal year through 2027/2028. The goal of the 5-Year Plan is to provide a safe and efficient multi-modal transportation system that will facilitate vehicular, bicycle, pedestrian and transit modes within the constraints provided by existing funding sources. Projects for which funding has been identified are shown in the Plan with **bold** lettering. Projects that have been identified as being needed but which are unfunded, and projects that will be funded by others, are included in the plan with appropriate notation regarding funding or the lack thereof. The funding spreadsheet at the end of the Plan includes only those projects that are funded or partially funded. Staff updates the 5-Year Transportation Plan annually through a series of public meetings. The Plan was previously updated on June 27, 2022.

This document is a planning guide and is not intended to deliver projects exactly as described by the proposed dates. The Plan is subject to revisions and changes that may be caused by actual versus projected growth rates, identification of additional projects, funding constraints, right-of-way acquisition delays, changing priorities, permitting and environmental issues.

II. IDENTIFICATION OF PROGRAMS AND PROJECTS

The 5-Year Plan consists of seven programs. The projects within each program are generally listed in the order in which staff believes the projects will be constructed, based on information contained in the Master Plan, projected traffic conditions, various planning documents, actions by the Board of County Commissioners and other political and transportation entities, and staff's judgment and knowledge of current conditions in the development and transportation communities. The seven programs are listed below:

1. Safety Improvements
2. Pavement Preservation
3. Engineering and Investigation
4. Rehabilitation
5. New Construction and Capacity Improvements
6. Intersection Improvements
7. Bike and Pedestrian Facilities

The **Safety Improvements Program** consists of identifying locations with a high number of crashes and making low cost improvements such as new lighting, LED signing systems, increased speed limit signs, guardrail and other safety mitigation measures.

The ***Pavement Preservation (or surface seal) Program*** consists of slurry seals and chip seals. Surface seals are used to seal the pavement surface and prevent the infiltration of moisture into the base and subgrade, and to slow the degradation of the

pavement surface due to weather and traffic. This program can also include asphalt concrete overlays on existing paved roads.

The purpose of the Pavement Preservation Program is to maintain roads in good condition and minimize long term costs. The goal is to apply the most cost effective treatment to the right pavements, at the right time to minimize pavement life cycle costs while maximizing serviceable pavement life. An effective Pavement Preservation Program saves money that can be used for other important transportation initiatives.

The Regional Pavement Management Systems (PMS) is used by Douglas County to create the Regional Pavement Preservation Program. The PMS provides the region a comprehensive regional assessment of roadway pavement assets, condition, and is a tool to prioritize preservation projects. The use of the Regional PMS gives the ability to provide the right treatments to the right pavements at the right time. For more on this program and an updated listing of pavement conditions visit the Public Works web page on the County's web site.

The **Engineering and Investigation Program** consist of preliminary field investigation and structural section design (Geotechnical Engineering). This program will be performed in the fiscal year prior to construction so alternatives can be determined and selected and a construction budget can be better quantified in advance. This will also allow for engineering design for the project to start earlier and construction bids to be received in early spring to get better prices.

The **Rehabilitation Program** generally consists of the structural repair of existing paved roads, usually by means of reconstruction. Reconstruction often involves the removal of the existing roadway structural section (pavement, aggregate base, subbase) and the construction of a new structural section. It might also include the recycling of existing pavements for use as base material prior to repaving. It could include the surfacing of unpaved roads, and thick overlays on pavements, as well as bridge repairs and culvert extensions.

The **New Construction & Capacity Improvements Program** includes new road construction and realignment of existing roads. It could also include adding traffic lanes and other improvements that increase the capacity of the existing roads or intersections, or provide improvements for biking, walking , or transit.

The **Intersection Improvement Program** includes the design and construction of traffic signals, roundabouts, and other intersection modifications. It could also include adding traffic lanes and other improvements that increase the capacity of the existing roads or intersections, or provide improvements for biking, walking, or transit.

The **Bicycle and Pedestrian Facilities Program** includes paths and walkways for cyclists and pedestrians, bicycle lanes, pedestrian ramps and related improvements.

The projects listed in the 5-Year Transportation Plan have been identified from the other regional plans of NDOT, TRPA, and TTD.

April 7, 2023

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
PROJECT COSTS AND FUNDING INFORMATION

Although care was taken to estimate the cost of projects in the 5-Year Plan, actual costs will vary based on engineering testing, detailed analysis and engineering design. The general financial constraints used in the preparation of the 5-Year Plan are identified below:

| | | | | | | | |
|----|---|---|---|---|---|---|---|
| A. | Douglas County Gas Tax is at an NRS maximum of 9-Cents per gallon of gasoline. The County increased the gas tax to the maximum allowable which went into affect on February 1, 2016. \$300,000 from the 9-cent Gas Tax is designated to go into reserves for the US 50 South Shore Community Revitalization Project at Lake Tahoe. | | | | | | |
| B. | Salaries and benefits are expected to grow at a rate of 2% per year. | | | | | | |
| C. | Project costs are estimated in current dollars. | | | | | | |
| D. | State Gas Tax 6.35¢ | County Gas Tax 9¢ | 1% Room Tax Valley | Property Tax | General Fund Transfer of \$1,053,638 | Residential Construction Tax \$500/Unit | Commercial Construction Tax \$.50/Square Foot |
| | General Maintenance all roads; Patching, striping, signs, shoulders, snow plowing; not a part of RTC | New Construction Reconstruction, Overlays, and Pavement Preservation - Regional Roads | New Construction Reconstruction, Overlays, and Pavement Preservation - Regional Roads | New Construction Reconstruction, Overlays, and Pavement Preservation - Regional Roads | New Construction Reconstruction, Overlays, and Pavement Preservation - Regional Roads | New Construction Reconstruction, Overlays, and Pavement Preservation - Regional Roads | New Construction Reconstruction, Overlays, and Pavement Preservation - Regional Roads |
| E. | The \$12,000,000 Highway Bond proceeds were utilized for 4 projects as approved by the RTC and Board of Commissioners. Debt service on the bond is paid from the 9-cent Gas Tax. The debt payments (approximately \$855,000/year) are scheduled to end in FY 2036-2037. | | | | | | |
| F. | NRS 244.33512 allows the 1% room tax obtained in the Lake Tahoe Basin to be used for transit and road projects within the basin only. | | | | | | |
| G. | The use of mitigation funds for construction of improvements, operations and maintenance, purchase of equipment, engineering design of improvements, etc., is addressed in TRPA's Air and Water Quality Mitigation Fund Release Policy Guidelines approved by the TRPA Governing Board June 23, 2010. Not part of RTC. | | | | | | |
| H. | For some of the Transit and Bicycle/Pedestrian facilities, staff has assumed that alternative funding sources (such as grants) will provide much of the funding, with matching funds provided by the County. Many of these projects will likely not be realized without grant funding. | | | | | | |
| I. | NRS Chapters 365, 366, 373, and 377A allow the full 9-cent gasoline tax to be used for patching, chip seals, slurry seals, general maintenance, etc. | | | | | | |

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
PROJECT COSTS AND FUNDING INFORMATION

| | |
|----|--|
| J. | The Board approved a transfer of \$140,000 from property taxes to the Regional Transportation Commission (RTC) in FY 12/13 and increased the transfer for FY 13/14 to \$393,743 plus an additional \$655,895 for a total of \$1,053,638 in FY 13/14. |
| K. | The Board of Commissioners approved the \$500/unit residential construction tax with <u>Ordinance No. 97-769</u> following approval by the voters in 1996. This applies to individual apartment units, townhouses and condominiums. The ordinance allows the money collected to be used for construction and maintenance of street and highway projects. Historically this money has been used for chip seals, slurry seals and overlays. |
| L. | The Board of Commissioners approved the \$0.50/SF commercial construction tax with <u>Ordinance No. 2004-1063</u> . The ordinance allows the money collected to be used for construction and maintenance of street and highway projects. Historically this money has been used for chip seals, slurry seals and overlays. |
| M. | Carson Area Metropolitan Area (CAMPO). The U.S. Census Bureau designated the Carson City urbanized area in 2002. In 2003, the Governor of Nevada designated CAMPO as the agency responsible for metropolitan transportation planning in the Carson City urbanized area, which consists of Carson City, northern Douglas County, and western Lyon County. CAMPO is responsible for creating and updating the following documents for the CAMPO area: Unified Planning Work Program (UPWP), Transportation Improvement Program (TIP), Regional Transportation Plan (RTP), Public Participation Plan (PPP). Through CAMPO Douglas County may receive projects and or funding such as Surface Transportation Block Grants from NDOT to be used within the Douglas County Portion of the CAMPO boundaries. |

Roads = Douglas County Road Department; **DCPW** = Douglas County Public Works; **Parks** = Douglas County Parks Department; **RTC** = Regional Transportation Commission
DCCD = Douglas County Community Development; **2017 DCTP** = 2017 Douglas County Transportation Plan; **CAMPO** = Carson Area Metropolitan Planning Organization;
Public = Public Input; **CIP** = 1996 Capital Improvement Program; **BOCC** = Board of County Commissioners; **1996 MP** = 1996 Master Plan;
GARD = Town of Gardnerville; **Minden** = Town of Minden; **DC School** – Douglas County School District;
US395 Study = US 395 Southern Sierra Corridor Study; **TRPA** = Tahoe Regional Planning Agency; **2008 & 2012 RSA's** = NDOT Road Safety Audits;
NDOT = Nevada Dept. of Transportation (Annual Work Program); **NDOT LRE** = NDOT Long Range Element for Douglas County; **TRPA ATP** = TRPA Active Transportation Plan
TTD – Tahoe Transportation District; **LTRPBB** = Lake Tahoe Region Bicycle and Pedestrian Plan, 2010; **TMPO** – Tahoe Metropolitan Planning Organization;
SSTMA = South Shore Transportation Management Association; **SSAP** = South Shore Area Plan; **NEEDS** = 1998 Transportation Needs Assessment;

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN

CURRENT YEAR PROJECTS

| PROJECT DESCRIPTION | STATUS |
|---|--|
| Johnson Lane Reconstruction from Heybourne Rd to Vicki Road | Civil Design Started December 2018, Final Design Pending Easements |
| Muller Parkway Design | RTC Board approved \$1,301,433 Contract with CA-Group for Engineering. Ames Construction was selected as the contractor for the Construction Management at Risk project delivery |
| Warrior Way Signal | By NDOT |
| Vista Grande Extension | BOCC approved the alignment and acceptance of Right of Way Feb 2023 |

PAST PROJECTS

| PROJECT DESCRIPTION | BUDGETED AMOUNT | ACTUAL CONSTRUCTION COST |
|--|------------------------|---------------------------------|
| Airport Road | \$775,000 | \$750,000 |
| SR 88 Box Culverts | \$1,010,000 | \$1,010,000 |
| Centerville Road | \$3,350,000 | \$3,311,000 |
| Plymouth Drive | \$600,000 | \$312,739 |
| Lake Village Drive | \$500,000 | \$416,057 |
| Dump Road Reconstruction Project | \$2,800,000 | \$1,858,505 |
| Tillman Lane Reconstruction and Drainage Improvements | \$1,600,000 | \$1,437,260 |
| Dresslerville Road Reconstruction Project | \$2,600,000 | \$1,816,675 |
| Waterloo Lane Reconstruction Project from SR88 to SR756 | \$2,300,000 | \$2,417,480 |
| Jacks Valley Road Reconstruction 2017 | \$4,406,000 | \$4,143,836 |
| 2018 Culvert Replacement Projects (Stephanie & Green Acres) | \$60,000 | \$60,000 |
| Jacks Valley Road Reconstruction 2016 | \$800,000 | \$819,359 |
| Buckeye Road Reconstruction 2016 | \$1,250,000 | \$1,616,253 |
| 2017 Culvert Replacement Projects (Green Acres & Bavarian Drive) | \$60,000 | \$58,000 |
| Toller Lane Reconstruction 2015 | \$1,000,000 | \$1,041,822 |
| Waterloo Lane Reconstruction Lampe 2015 | \$700,000 | \$704,924 |
| Muller Lane Parkway 2015 | \$302,000 | \$403,717 |
| Muller Parkway Virginia Canal Box Culvert 2015 | \$300,000 | \$295,389 |
| Traffic Signal Upgrades 2015 | \$50,000 | \$44,358 |
| Tillman Sidewalk Improvements 2014 | \$104,000 | \$98,510 |
| | \$24,567,000 | \$22,615,884 |

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
SAFETY IMPROVEMENTS

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|---|---|-----------------------|-----------------|------------------------|---------------------|---|
| 1 | Safe Routes to School Safety Master Plan | \$20,000 | 2022/2023 | CAMPO | \$20,000 | Federal Grant with a 5% Match. This was put in this years Budget and presented to the School Board. |
| | | | | | | |

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
PAVEMENT PRESERVATION PROGRAM

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|---|--|----------------|----------|-----------------|--------------|---|
| 1 | Road Seal/Overlay: (LIST 2018 ROADWAYS FROM PCI TABLE) | \$700,000 | FY 23/24 | DCPW | \$700,000 | Award contract in spring for construction in summer of 2023. Road list is needed. |
| 2 | Maintenance Repair from Winter 2022\2023 | \$750,000 | FY 23/24 | DCPW | \$750,000 | Award contract in spring for construction in summer of 2023. Funding Approved in Supplemental Request 2023. |
| 3 | Road Seal/Overlay: (LIST 2019 ROADWAYS FROM PCI TABLE) | \$700,000 | FY 24/25 | DCPW | \$700,000 | Award contract in spring for construction in summer of 2024. Road list is needed. |
| 4 | Road Seal/Overlay: (LIST 2020 ROADWAYS FROM PCI TABLE) | \$700,000 | FY 25/26 | DCPW | \$700,000 | Award contract in spring for construction in summer of 2025. Road list is needed. |
| 5 | Road Seal/Overlay: (LIST 2021 ROADWAYS FROM PCI TABLE) | \$700,000 | FY 26/27 | DCPW | \$700,000 | Award contract in spring for construction in summer of 2026. Road list is needed. |
| 6 | Road Seal/Overlay: (LIST 2022 ROADWAYS FROM PCI TABLE) | \$700,000 | FY 27/28 | DCPW | \$700,000 | Award contract in spring for construction in summer of 2027. Road list is needed. |

**DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
ENGINEERING AND INVESTIGATION PROGRAM**

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|---|--|-----------------------|-----------------|------------------------|---------------------|---|
| 1 | Partner with CAMPO for update to a regional travel demand model | \$300,000 | FY 23/24 | DCPW | \$116,095 | Cost to be shared between Community Development and RTC |
| 2 | Geotechnical and Preliminary Engineering on various roadways for budget planning | \$200,000 | FY 24/25 | DCPW | \$200,000 | Roads to be determined |
| 3 | Geotechnical and Preliminary Engineering on various roadways for budget planning | \$200,000 | FY 25/26 | DCPW | \$200,000 | Roads to be determined |
| 4 | Geotechnical and Preliminary Engineering on various roadways for budget planning | \$200,000 | FY 26/27 | DCPW | \$200,000 | Roads to be determined |
| 5 | Geotechnical and Preliminary Engineering on various roadways for budget planning | \$200,000 | FY 27/28 | DCPW | \$200,000 | Roads to be determined |
| 6 | PCI Survey for the CAMPO area | \$25,000 | FY 28/29 | DCPW | \$0 | Funded by CAMPO |
| 7 | Perform a traffic study comparing traffic volume reduction anticipated with the Muller Parkway | \$200,000 | FY 29/30 | DCPW | \$200,000 | UNFUNDED |

**DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
REHABILITATION AND RECONSTRUCTION PROGRAM**

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|---|---|----------------|----------|-----------------|--------------|--|
| 1 | Johnson Lane pavement and Drainage Repair | \$3,000,000 | 24/25 | DCPW | \$200,000 | Project is at 90 percent complete by NCI Engineering. A contract amendment is needed to finalize the design. Project construction will be put on hold for future funding options from CAMPO. |
| 2 | Mottsville Lane from Foothill to SR 88. Reconstruct pavement section with roadbed modification. | \$2,975,000 | FY 25/26 | DCPW | \$3,200,000 | Project needed to improve PCI. Funding not available. |
| 3 | Topaz Lake Road Improvement Program | \$200,000 | FY 24/25 | DCPW | \$200,000 | BOCC approved funding for Road Operating fund to repair roads in Topaz Lake. Patching and drainage improvement has taken place. |
| 4 | Kimmerling Road; mill and overlay | \$2,025,000 | 25/26 | DCPW | \$3,200,000 | Project to repair cracking and road failures. Include replacing culvert that is failing. |
| 5 | Pinenut Road from East Valley west to new construction; Reconstruction | \$2,425,000 | 25/26 | DCPW | \$3,000,000 | Shared cost from industrial development for turn lanes and their associate cost |
| 6 | Lake Parkway Reconstruction | \$3,000,000 | 25/26 | DCPW | \$3,000,000 | Funded through Tahoe Douglas Transportation District 236 Funds |
| 7 | Bridge & culvert improvements; upgrade bridge rails, or lengthen culverts. Possible guardrail work. Locations to be determined. | Undetermined | FY 23/24 | DCPW | \$60,000 | Replace Dressler Lane failed culvert and others in the valley. |
| | | Undetermined | FY 24/25 | DCPW | \$60,000 | |
| | | Undetermined | FY 23/24 | DCPW | \$60,000 | |
| | | Undetermined | FY 24/25 | DCPW | \$60,000 | |
| | | Undetermined | FY 25/26 | DCPW | \$60,000 | |
| 8 | Rehabilitation of collector roads, specific roads to be determined. | Undetermined | FY 26/27 | DCPW | Undetermined | Potential roads to be determined |
| | | Undetermined | FY 27/28 | DCPW | Undetermined | |
| | | Undetermined | FY 27/28 | DCPW | Undetermined | |

**DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
REHABILITATION AND RECONSTRUCTION PROGRAM**

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|----|---|----------------|--------------|-----------------------|--------------|---|
| | | Undetermined | FY 28/29 | DCPW | Undetermined | |
| 9 | Wildhorse Subdivision Sidewalk and Curb Repair | \$75,000 | FY 24/25 | DCPW | TBD | Repair damaged sidewalk and curb due to weathering. Determine maintenance responsibilities. |
| 10 | Kahle Drive; Reconstruct roadway to complete street improvement and US 50 Intersection enhancements. The area has been included in the Douglas County Redevelopment Area. See Kahle Drive Vision Complete Streets plan. | \$3,283,000 | FY 24/25 | DCPW, SSTMA, TRPA ATP | Grant Match | Initial design of reconstruction project underway. County has designated Nevada Tahoe Conservation District as lead agency for this stage. Multiple funding sources and project partners are involved, including Douglas County. FUNDED |
| 11 | County Road from SR88 to US395; Construct storm drain along County Road. | Undetermined | Undetermined | CIP | Undetermined | Cannot be connected to Town's enhancement drainage project. UNFUNDED |
| 12 | Saratoga Street #1 from Vicky lane east to the end of pavement at Armil | Undetermined | Undetermined | BCC | Undetermined | Reconstruct to standards following sewer construction. UNFUNDED |
| 13 | Lupo Lane Drainage Improvements upsize culvert and stabilize drainage channel. | \$70,000 | Undetermined | DCPW | \$70,000 | Lupo was damaged by flooding In January 2006. Will design in-house. UNFUNDED |
| 14 | Reconstruct Agate Court, Calcite Circle, Tourmaline Way, Carnelian Way, Basalt Drive, Tourmaline Drive and Granite Court. | Undetermined | Undetermined | DCPW | Undetermined | These roads are in the "donut hole" of the Indian Hills GID. Reconstruct and give to IHGID for maintenance. UNFUNDED |
| 15 | US 50 Road Safety Project From Elks Point to north of Cave Rock. | Undetermined | Undetermined | Public/NDOT RSA | Undetermined | The County has received a number of requests regarding this road by residents. UNFUNDED |
| 16 | All Projects | Undetermined | Undetermined | DCPW | Undetermined | Consider conduit in all reconstruction projects for connecting the valley with fiber optic where applicable |

**DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
NEW CONSTRUCTION & CAPACITY IMPROVEMENTS PROGRAM**

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|---|---|-----------------------|-----------------|------------------------|---------------------|---|
| 1 | Muller Parkway "B", from the eastern boundary of Nevada LLC (approx. 2400' east of US395) to the eastern boundary of Park Cattle Co. (Monterra Subd.) 4-lane divided roadway, approx. 4300 feet. B1 must be constructed no later than Aug. 31, 2017. B2 must be constructed no later than Aug. 31, 2021 | \$5,100,000 | FY 24/25 | 2017 DCTP | \$0 | Monterra must build this per Ord. No. 2009-1300, the 2nd Amendment to their development agreement. The Ranch at G'Ville may have some responsibility for this segment Ord. 2012-1377 extended the time frame for the road improvements. FUNDED BY OTHERS |
| 2 | PARK RECEIVING AREA, SEGMENT C- The County must construct two lanes of Muller Parkway in accordance with or exceeding specifications contained in the County's Standard Detail for a 2 Lane Urban Arterial across the subject property (for a distance of approximately 2.4 miles) within six years of the effective date of the agreement, January 2020. Engineer's current estimated total cost and County's current estimated obligation of \$12,000,000 . | \$14,000,000 | FY 24/25 | 2019 BOCC | \$14,000,000 | The property owner is responsible for the cost of construction of the sidewalk. Construction of the sidewalk may be deferred until adjacent development occurs. County is currently in design process |

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
NEW CONSTRUCTION & CAPACITY IMPROVEMENTS PROGRAM

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|---|--|----------------|----------|-----------------|--------------|---|
| 3 | ASHLAND PARK, SEGMENT D- The County must construct and equally share in the cost to construct 2 lanes of Muller Parkway, in accordance with or exceeding specifications contained in the County's Standard Detail for a 2 Lane Urban Arterial across the Ashland Park property (for a total distance of approximately 0.4 miles) within six years of the effective date of the agreement, January INSERT 2020. Engineer's <u>current</u> estimated total cost of \$1,800,000, County's <u>current</u> estimated obligation \$900,000 . | \$1,800,000 | FY 24/25 | 2019 BOCC | \$900,000 | Notes: the property owner is responsible for the cost of construction of the sidewalk. Construction of the sidewalk may be deferred until adjacent development occurs. The property owner may choose to construct this portion of Muller before the County has commenced construction and the County shall pay half of the material and constructions expenses to the property owner if this occurs. If the County constructs, the County will bill the property owner and the property owner is required to pay every 30 days. Failure to remit payment in timely manner constitutes a default of the agreement. |
| 4 | Muller Parkway "G", through Virginia Ranch subdivision from Stodick Estates South to Grant Avenue. Construct 4-lane divided roadway. Length approx. 5600 feet. To be constructed by Virginia Ranch "as needed in phases" per the Settlement Agreement. | \$6,000,000 | FY 24/25 | 2017 DCTP | \$0 | Construction by developer. Needed to maintain LOS C on county roads. Refer to the Settlement Agreement dated February 19, 2009. FUNDED BY OTHERS |
| 5 | Muller Parkway "H" from Grant Avenue to Virginia Canal. Construct Final 2 Lanes of divided roadway, length 2000'. To be constructed by Virginia Ranch "as needed in phases" per the Settlement Agreement. | \$1,700,000 | FY 24/25 | 2017 DCTP | \$0 | Westerly 2 lanes were constructed in 2012 by Virginia Ranch with the Wal-Mart improvements. FUNDED BY OTHERS |
| 6 | Muller Parkway Virginia Canal Crossing | \$600,000 | FY 24/25 | 2017 DCTP | \$600,000 | Douglas County to construct the Virginia Canal Crossing |

**DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
NEW CONSTRUCTION & CAPACITY IMPROVEMENTS PROGRAM**

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|---|---|-----------------------|-----------------|------------------------|---------------------|---|
| 7 | Vista Grande Blvd. road extension; construct from Jacks Valley Rd. north to meet existing pavement including a roundabout with Jacks Valley road. Funding from funds within the RDA #1. | \$3,000,000 | FY 24/25 | 2017 DCTP | \$3,000,000 | Needed to maintain LOS C on county roads per the 2017 DCTP. Provides alternative north/south route parallel to US 395. Priliminary plans have been submitted to the US Forest Service to speed things up. County working with US Forest service to remove this from the Lands Bill and speed up the Rights of Way process. RDA #1 is the source of Funding |
| 8 | Heybourne Road #2 – from Muller Parkway south to Gilman Avenue. Heybourne north of Buckeye must be completed to rural standards by 2017, and to urban standards by 2021 by Monterra. The schedule for The Ranch was modified by the Board on Oct. 4, 2012 | Undetermined | 2019-2030 | 2017 DCTP | \$0 | Monterra subd. is required to construct south to Buckeye Road per Ord. No. 2012-1377. "The Ranch at Gardnerville" will construct from Buckeye Road to Gilman Avenue in phases with construction of the subdivision improvements. See Ord. 2012-1371. Needed to maintain LOS C on county roads or D on NDOT roads per 2017 DCTP. FUNDED BY OTHERS |
| 9 | US 50 South Shore Community Revitalization Project. This project would realign existing US Hwy 50 along Lake Parkway East. The Tahoe Transportation District (TTD) is the lead agency. | \$75,000,000 | FY 24/25 | TRPA/NDOT | Undetermined | BCC approved the Project Charter July 16, 2009. RTC recommended Alternative B (Locally Preferred Acton) as Preferred Alternative (2018). Project was approved by FHWA. Construction timeframe uncertain. County funding commitment: \$300k/yr. for 5 years from 5-cent gas tax then \$291k/yr. from TDTD funds. NDOT will own the new 50 alignment. County will be asked to accept the old alignment. |

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
NEW CONSTRUCTION & CAPACITY IMPROVEMENTS PROGRAM

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|----|--|----------------|--------------|--------------------------------|--------------|---|
| 10 | Genoa Lane Realignment, to match Airport road alignment | \$3,400,000 | 2019-2030 | 2017 DCTP | \$0 | Needed per 2017 DCTP to maintain LOS C on county roads or LOS D on state roads. NDOT responsible. UNFUNDED. |
| 11 | Zerolene Road, construct 2-lane minor collector from US 395 to Heybourne Road. County will acquire a small triangle of Right-of-way at the 395/Zerolene intersection. The Ranch must construct Zerolene by 2024. | \$3,900,000 | 2019 – 2024 | 20017 DCTP | \$15,000 | Needed to maintain LOS C on county roads per 2017 DCTP. Right-of-way acquisition by the Ranch at Gardnerville". See Ord. 2012-1371 for phasing timing. UNFUNDED |
| 12 | North County – Construct new roads to serve commercial development. Needed to maintain LOS C on county roads per 2017 DCTP. | \$3,100,000 | FY 19/21 | 2017 DCTP | \$0 | Design and construction by developers. County Funding from North County deferred revenue account. Other funding by developer. FUNDED BY OTHERS |
| 13 | Bridge/culvert on East Valley Road for Johnson Lane Wash with a new structure. Construct bridge before EVR extension. | \$250,000 | Undetermined | DCPW | \$250,000 | Replace existing dip section with bridge, or ConSpan arch culvert. Drainage analysis completed, but Construction is UNFUNDED. |
| 14 | East Valley Road extension, from Fremont Street northwest to East Valley Road south of Johnson Lane; construct new roadway. | \$3,600,000 | Undetermined | Undetermined | \$3,600,000 | Part of 2017 Transportation Plan UNFUNDED |
| 15 | Construct left turn lane on Pinenut Road eastbound at Sawmill Road. Old Sawmill Park contributed \$8,400 on 5/4/09 toward these improvements. | \$300,000 | Undetermined | DCPW | \$0 | Identified as needed by traffic studies for Old Sawmill Park (Pete Beekhof) and Sawmill Road Properties (David Williams). UNFUNDED |
| 16 | 3rd Lane in each direction US 395 from Mica Dr. to N. Sunridge Dr. | \$6,000,000 | Undetermined | 2017 DCTP/US395 Study/NDOT LRE | Undetermined | Project identified as a near-term improvement in NDOT's US 395 Southern Sierra Corridor Study and the 2017 DCTP. UNFUNDED |
| 17 | Ironwood Drive Extension from Lucerne Street in Minden east to Heybourne Road. Construct as a 2-lane minor collector. | \$4,200,000 | Undetermined | 2017 DCTP | \$0 | Construct concurrent with development, by development. Needed to maintain LOS C on County roads per 2017 DCTP. Reevaluate need with MP update. UNFUNDED |

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NEW CONSTRUCTION & CAPACITY IMPROVEMENTS PROGRAM

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|----|---|-----------------------|-----------------|------------------------|---------------------|---|
| 18 | Heybourne Road Extension from Stephanie Way to Johnson Lane | \$6,000,000 | Undetermined | 2017 DCTP | Undetermined | Project identified as needed to maintain LOS C on county roads per 2017 DCTP. UNFUNDED |
| 19 | East Valley Road from Stockyard Road north to Johnson Lane. Construct to 2-lane major collector, per Master Plan; Length approx. 19,600 feet. | Undetermined | FY 24/25 | 2017 DCTP | Undetermined | Sunrise Pass Road. Needed to maintain LOS C per 2017 DCTP. UNFUNDED |
| 20 | Riverview Drive from US 395 to Dresslerville Road; widen to 4-lane collector. | \$10,000,000 | 2019-2030 | 2017 DCTP | Undetermined | Per old MP, implement when ADT on Dresslerville Road exceeds 8800. 2012 ADT was 6800. Needed to maintain LOS C on county roads per 2017 DCTP. Reevaluate trigger with MP update. UNFUNDED |
| 21 | Stephanie Way from US395 to South Santa Barbara Drive; widen to 4-lane major collector | \$11,200,000 | 2019-2030 | 2017 DCTP/NDOT LRE | Undetermined | Needed to maintain LOS C on county roads per 2017 DCTP. UNFUNDED |
| 22 | Heybourne Road #1 - from Meridian Blvd. south to Muller Parkway. Construct to collector standards. | Undetermined | 2019-2030 | DC School/2017 DCTP | Undetermined | Needed to maintain LOS C on county roads per 2017 DCTP. Need right-of-way. Needed to maintain LOS C on county roads per 2017 DCTP. UNFUNDED |
| 23 | Heybourne Road #3 – from Gilman Avenue east to Muller Parkway. | Undetermined | 2019-2030 | 2017 DCTP | \$0 | Construction by future development. Needed to maintain LOS C on county roads per the 2017 DCTP. UNFUNDED |
| 24 | East Valley Road Realignment, from Toler Lane south to East Valley Road (Saw Mill) | \$3,000,000 | 2019-2030 | 2017 DCTP | Undetermined | Needed to maintain LOS C on county roads per the 2017 DCTP. UNFUNDED |
| 25 | Waterloo Lane from SR88 to US395 at Stodick Parkway; construct 2-lane collector. | \$23,600,000 | 2019-2030 | 2017 DCTP | Undetermined | Implement with adjacent development. Needed to maintain LOS C on county roads per 2017 DCTP. UNFUNDED |
| 26 | East Valley Road connection, from East Valley south of Pinenut Road South to US 395. | \$10,000,000 | 2019-2030 | 2017 DCTP | Undetermined | Needed per 2017 DCTP to maintain LOS C on county roads. UNFUNDED |
| 27 | South Ranchos Connection, from Dressler Lane to the East Ranchos Connection. | \$6,600,000 | 2019-2030 | 2017 DCTP | Undetermined | Needed per 2017 DCTP to maintain LOS C on county roads. UNFUNDED |

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
NEW CONSTRUCTION & CAPACITY IMPROVEMENTS PROGRAM

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|----|---|-----------------------|-----------------|-------------------------------------|---------------------|---|
| 28 | East Ranchos Connection, from Long Valley Road to US 395, 2-lane major Collector | \$15,000,000 | 2019-2030 | 2017 DCTP | Undetermined | Needed per 2017 DCTP to maintain LOS C on county roads. UNFUNDED |
| 29 | Dressler Lane Connection, from US 395 to SR 88/Fairview Lane. Construct as major collector. | \$40,700,000 | 2019-2030 | 2017 DCTP/NDOT LRE | \$0 | Needed per 2017 DCTP to maintain LOS C on county roads or LOS D on state roads. UNFUNDED |
| 30 | Vicky Lane from Johnson Lane south to intersection with East Valley Road (AKA East Valley Road connection) | \$15,900,000 | 2019-2030 | 2017 DCTP | Undetermined | Need right-of-way. Construct after completion of East Valley Road through to Johnson Lane. Needed to maintain LOS C on County roads per the 2017 DCTP. UNFUNDED |
| 31 | US 395 Corridor improvements #2, from Jacks Valley Road to CC county line, incl. frontage roads, new freeway section, Topsy grade separation & Jacks Valley Rd interchange. | \$130,200,000 | 2019-2030 | 2017 DCTP | \$0 | Needed to maintain LOS C on county roads or LOS D on state roads per the 2017 DCTP. UNFUNDED |
| 32 | US395 from SR88 to Jacks Valley Rd.; construct frontage roads and 4-lane freeway. (AKA US 395 #3 6-lanes) | \$138,500,000 | 2019-2030 | 2017 DCTP/NDOT LRE | Undetermined | Needed to maintain LOS C on county roads or LOS D on state roads per the 2017 DCTP. UNFUNDED |
| 33 | US 395 from Pinenut Road to Palomino Dr. Widen to 5 lanes. (AKA US 395 #5) NDOT responsible. | \$29,100,000 | 2019-2030 | 2017 DCTP/NDOT LRE | \$0 | Needed per 2017 DCTP to maintain LOS C on county roads or LOS D on state roads. UNFUNDED |
| 34 | Carson Valley Bypass; Alignment east of the Carson Valley, largely through public lands from south of Pinenut Road to Carson Freeway. | \$268,000,000 | Beyond 2030 | BCC/2017 DCTP/US 395 STUDY/NDOT LRE | Undetermined | This project was added at the direction of the BOCC on March 2, 2000. Project and cost is from the NDOT US 395 Study. UNFUNDED |
| 35 | All Projects | Undetermined | | | Undetermined | Consider conduit in all reconstruction projects for connecting the valley with fiber optic where applicable |

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
INTERSECTION IMPROVEMENT PROGRAM

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|---|---|----------------|--------------|------------------|------------------|---|
| 1 | Warrior Way/ US 50 Signal and Pedestrian Improvements | \$2,300,000 | 2023/2024 | NDOT | Maintenance Only | Under Construction |
| 2 | US50/Lake Parkway Roundabout | \$5,000,000 | 2024/2025 | TTD | \$1,200,000 | TTD to Apply for Grant. County Share for design and match. |
| 3 | Zerolene Road/US 395 intersection; | \$25,000 | 2026/2027 | DCPW | \$25,000 | Acquire R/W on NE corner. R/W needed to construct the Zerolene improvements required of The Ranch at Gardnerville. |
| 4 | Genoa Lane/Airport Road/US 395 intersection; Construct interchange per US395 Study. | \$7,000,000 | 2025 - 2030 | US395 Study | Undetermined | Needed to improve traffic flow and safety. Realign Genoa Lane and Airport Road to a common intersection with US395. Obtain R/W. Included in NDOT County Project Priorities in 2019 . UNFUNDED |
| 5 | Muller Parkway/US 395 intersection; Construct traffic signal; Signal poles and conduit are already inplace. | \$400,000 | Undetermined | DCCD | Undetermined | Request new signal warrants study when Heybourne Road Connects to Muller Parkway. UNFUNDED NDOT may fund |
| 6 | Lucerne Street/US 395 intersection; Construct traffic signal | Undetermined | Undetermined | 2017 DCTP | \$0 | County has collected some reserves for this. Latest Warrant Study by NDOT showed it has not met warrants. FUNDED BY OTHERS. |
| 7 | SR756 at Waterloo Ln.; Construct a Roundabout | \$1,000,000 | Undetermined | DCPW/2012 RSA | \$0 | Listed with NDOT as a County Priority. UNFUNDED |
| 8 | State Route 88 intersections; Waterloo/Mottsville, Kimmerling Rd; lengthen turn lanes on highway, possible acceleration lanes | Undetermined | Undetermined | 1996MP/2017 DCTP | Undetermined | Monitor NDOT studies annually. Awaiting NDOT SR88 corridor study. Request NDOT Corridor Study. UNFUNDED |
| 9 | Dresslerville Road/Centerville Road intersection; install traffic signal, or roundabout. | Undetermined | Undetermined | 1996 MP | Undetermined | Developer Contributions held in Deferred Revenues. Coordinate with NDOT. Reevaluate with MP update. UNFUNDED |

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
INTERSECTION IMPROVEMENT PROGRAM

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|----|--|----------------|--------------|-----------------------|--------------|--|
| 10 | US395/Stodick Parkway intersection; install traffic signal and associated improvements or roundabout | \$350,000 | Undetermined | 2017 DCTP | Undetermined | Monitor LOS at intersection following construction of Waterloo Lane Extension to meet Stodick Parkway. UNFUNDED |
| 11 | Tillman/Kimmerling intersection; construct roundabout or traffic signal. | Undetermined | Undetermined | DCCD/DCPW | Undetermined | Some developer contributions collected. UNFUNDED |
| 12 | Zerolene/US395 intersection; install traffic signal (or roundabout) County needs to acquire additional R/W that developer has been unable to acquire on NE corner of intersection. See item 2 above. | Undetermined | Undetermined | US395 Study/2017 DCTP | Undetermined | Identified in the US 395 Southern Sierra Corridor Study as a future traffic signal location. The Ranch at Gardnerville must construct the Zerolene road improvements. UNFUNDED |

**DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
BIKE AND PEDESTRIAN FACILITIES PROGRAM**

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|---|--|----------------|-----------|-----------------|--------------|---|
| 1 | ADA Compliance Implementation Plan. Provide ADA-compliant pedestrian facilities, primarily sidewalks and pedestrian ramps. Potential for grant funding. | \$200,000 | FY 24/25 | DCPW | \$200,000 | ADA Transition Plan for Douglas County needs to be developed and initiated. Plan shall include all Public Rights-of-Way including parks and facilities. Cost to be shared between departments included. |
| | | \$30,000 | FY 25/26 | DCPW | \$30,000 | |
| | | \$30,000 | FY 26/25 | DCPW | \$30,000 | |
| | | \$30,000 | FY 26/27 | DCPW | \$30,000 | |
| 2 | Design and Widen Bridge #638 (Lutheran Bridge) on SR 756; Provide bike/pedestrian improvements over the bridge. | \$750,000 | FY 26/27 | NDOT RSA/DCPW | \$38,000 | Project is currently in design with NDOT. TAP Grant and County Match |
| 3 | Widen existing roadway to provide 5 foot bike lanes on SR756 from Waterloo Lane at Lampe Park to Dresslerville Road | \$1,800,000 | FY 26/27 | DCPW/GARD | \$42,000 | Project is currently in design with NDOT. TAP Grant and County Match |
| 4 | Stateline Bikeway Demonstration Project; Phase III from CA/NV state line on Lake Parkway to Laura Drive; The Tahoe Transportation District is the lead agency and is working with Edgewood to complete the improvements on their property. | 300,000 | 2025-2026 | TTD; TRPA ATP | Undetermined | The segment along Laura Drive was constructed in 2014. The Douglas County Parks Department will maintain the trail. |
| 5 | Construct Class II Bike Lane along US 50 from Stateline to Spooner Summit. | 122,100 | 2025-2026 | TMPO; TRPA ATP | \$0 | These improvements are consistent with the Tahoe BPP. FUNDED BY NDOT. |
| 6 | Elks Point Road from US Hwy 50 to McFaul Way; designate this street as a bike route with appropriate signage and possible pavement markings. Will connect existing bike lanes to existing trail. Round Hill GID maintains this road and can make the appropriate improvements. | \$2,000 | 2025-2026 | TMPO; TRPA ATP | \$0 | The need for these improvements was identified by the TMPO during the 2014 public input process to update the 5-Year Transportation Plan. FUNDED BY OTHERS |
| 7 | Stateline to Stateline Bikeway Project; this project will ultimately circumnavigate Lake Tahoe. | Undetermined | 2024-2026 | TTD | Undetermined | TTD is the lead agency. Project will be constructed in phases as funding, etc., becomes available. UNFUNDED |
| 8 | US Hwy 50 from Lake Parkway to Kingsbury Grade; construct new multi use path or sidewalk along the easterly side of the road. | \$175,000 | 2026-2028 | TRPA ATP | Undetermined | NDOT should construct this sidewalk because they own and Maintain US Hwy 50. This should be done with the Revitalization Project at the latest. UNFUNDED |
| 9 | Market Street to Van Sickle Bi-State Park "Nevada Greenway" Multi Use Path; Construct a shared use path from the south end of Market Street to the park, and designate Market Street as a bike route. | \$2,310,000 | 2026-2028 | TRPA ATP | Undetermined | Designation of Market Street as a bike route should occur concurrent with construction of the path. UNFUNDED |

DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
BIKE AND PEDESTRIAN FACILITIES PROGRAM

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|----|---|----------------|--------------|-----------------|--------------|--|
| 10 | Pine Ridge Drive from Kingsbury Grade to the cul-de-sac; Install Way Finding signs to Multi-Use Trails. | \$1,000 | 2026-2028 | SSAP/TRPA ATP | \$1,000 | Kingsbury General Improvement District maintains Pine Ridge Drive and Douglas County can install the appropriate signage. UNFUNDED |
| 11 | TRPA promoting a shared use path from Pine Ridge to US 50/Kahle and to Elks Point Road as a sidewalk or preferred shared use path. Participation from Sierra Colina to connect and partnership. | \$3,210,000 | Undetermined | TRPA ATP | \$0 | Connectivity is needed with the existing and proposed network of share use paths. These improvements are discussed in the TRPA Active Transportation Plan. |
| 12 | Class 1 Multi-Use Trail to connect Kahle Community Park with the US 50 Kahle Drive Intersection and Pine Ridge Drive. | \$1,500,000 | 2026-2028 | TRPA ATP; SSTMA | \$0 | These improvements are discussed in the Burke Creek-Rabe Meadow Complex Master Plan (November 2014). UNFUNDED |
| 13 | Kingsbury Grade from US Hwy 50 to Dagget Pass; construct bike lanes or wide shoulder. | Undetermined | Undetermined | TRPA ATP | \$0 | These improvements should be constructed by NDOT with the reconstruction of Kingsbury Grade. FUNDED BY OTHERS |
| 14 | SR88/US395 intersection landscaping project. Remove asphalt concrete medians. Install landscaping, irrigation, sidewalk crossing, etc. | Undetermined | Undetermined | DCPW/MINDEN | Undetermined | Town of Minden has indicated a desire to construct this project. Possible future roundabout at this location. FUNDED BY OTHERS |
| 15 | US 395 Sidewalk Improvements Adjacent to Kings Lane in Gardnerville | \$329,000 | Undetermined | NDOT | \$48,237 | NDOT Statewide Transportation Improvement Program TAP Funds |
| 16 | SR756, from Douglas Avenue to Dresslerville Road; On-street trail (bike lanes). Approx. length 10,200 feet | Undetermined | Undetermined | Trails | \$0 | Widen existing roadway, stripe and sign for bike lanes. SR756 is maintained by NDOT. Very high priority per the Trails Plan. FUNDED BY OTHERS |
| 17 | County Road, from SR88 to 2nd Street; On-street trail (bike lanes). Approx. length 5,200 feet | \$8,000 | Undetermined | Trails | \$8,000 | Stripe and sign existing roadway per the Trails Plan on next slurry or overlay. UNFUNDED. |

**DOUGLAS COUNTY 5-YEAR TRANSPORTATION PLAN
BIKE AND PEDESTRIAN FACILITIES PROGRAM**

| | ROADWAY LOCATION AND DESCRIPTION OF WORK | ESTIMATED COST | SCHEDULE | PROJECT SOURCE* | COUNTY SHARE | COMMENTS |
|----|---|----------------|--------------|-----------------|--------------|--|
| 18 | 2nd Street, from County Road to Wildrose; On-street trail (bike lanes). Approx. length 250 feet Priority per the Trails Plan. | \$1,000 | Undetermined | Trails | \$0 | Stripe and sign existing roadway. 2nd Street is maintained by the Town of Minden. Very high priority per the Trails Plan. FUNDED BY OTHERS |
| 19 | Tillman Lane, from Dresslerville Road to Kimmerling Road; On-street trail (bike lanes) Approx. length 6,500 feet | Undetermined | Undetermined | Trails | Undetermined | Widen roadway, stripe and sign for bike lanes. Very high priority per the Trails Plan. UNFUNDED. |
| 20 | Implement Douglas County Comprehensive Trails Plan. Implement all projects with priorities that are less than "high". | Undetermined | 2022 - 2030 | Trails | Undetermined | Refer to Comprehensive Trails Plan, adopted June 5, 2003. UNFUNDED |