

**SMART SCALE FY 2024**  
**Readiness Guide by Feature Selection**

Feature Label in Portal	Warning Message	Feature Comment Minimum Details Needed	Portal Mapping
Add/Construct Bike Lane	None	Length, Width, Direction, Roadway, Start, End	Select/Trace LRS Linework. Draw function for completely off-road trail using project limits.
Bike/Pedestrian Other	None	Mode(s), Quantity, Improvement(s), Location(s)	Select/Trace LRS Linework. Draw function for completely off-road trail using project limits.
Construct Shared-Use Path	None	Length, Width, Direction, Roadway, Start, End	Select/Trace LRS Linework. Draw function for completely off-road trail using project limits.
Construct Sidewalk	None	Length, Width, Direction, Roadway, Start, End	Select/Trace LRS Linework. Draw function for completely off-road trail using project limits.
Improve Bike/Pedestrian Crossing (At Grade)	None	Bicycle/Pedestrian/Bicycle and Pedestrian, Quantity, Improvement(s), Location(s)	Select/Trace LRS Linework. Draw function for completely off-road trail using project limits.
Improve Bike/Pedestrian Crossing (Grade Separated)	None	Mode of Crossing, Roadway Crossed, Constructing/Improving, Roadway Being Improved, Improvement(s)	Select/Trace LRS Linework. Draw function for completely off-road trail using project limits.
Construct or Convert Existing General Purpose or Parking Lane to Bus-only Lane	Provide a study that includes an operational analysis to support this feature documenting a preferred alternative that is consistent with the scope described in the application.	Construct: Number of new lanes, Direction, Thru/Left-Turn/Right-turn, Roadway, Start Location, End Location Convert: Direction, GP/Parking Lane, Thru/Left-turn/Right-turn, Roadway, Start Location, End Location	Select/Trace LRS Linework. Draw function for new alignment using project limits.
Construct or Improve Bus Stop / Shelter	Fill out the Transit Pearl for your project.	Construct/Improve, Location, Improvements	Select/Trace LRS Linework.
Construct/Expand Bus Facility	Provide details of site plan, Transit Development Plan (TDP), comprehensive plan, long-range transportation plan, detailed cost estimate, or federally required planning documents such as NEPA and Section 106. Please provide a feasibility or site selection study for facility projects seeking funding for land purchases. Additionally, fill out the Transit Pearl for your project.	Location, Improvement(s)	Select/Trace LRS Linework. Draw function for drive aisles, access points, and new alignment using project limits.
Increase Existing Route Service - Additional Vehicle(s) or Increased Frequency	Fill out the Transit Pearl for your project.	Add buses: Number of buses, Length of bus, Type of bus, Route Increase frequency: Route, Original frequency, proposed frequency	Select/Trace LRS Linework.
New Route/Service	Fill out the Transit Pearl for your project and upload a feasibility study including ridership projections. For proposed fixed guideway projects, please identify the locally preferred alternative.	Area served, general start and end points, proposed frequency.	Select/Trace LRS Linework.
Other Transit Technology Improvements	Fill out the Transit Pearl for your project.	Location(s), Improvements	Select/Trace LRS Linework.
Freight Rail Improvements	Fill out the Transit Pearl for your project.	Describe improvements or new features in detail.	Select/Trace LRS Linework for road/rail crossings. Draw function for rail segments using project limits.
Access Management	None	Driveways, crossovers, or movements: Improvement, Roadway, Location Medians or TWLTL: Improvement, Roadway, Start location, End location	Select/Trace LRS Linework.
Add New Through Lane(s)	Provide a Planning Study/Safety Study to support this feature documenting a preferred alternative that is consistent with the scope described in the application. If a major widening (two or more lanes), the planning study must include an alternatives analysis that considers improvements without widening.	Length, Direction, Roadway, Current number of lanes, Proposed number of lanes, Start location, End location	Select/Trace LRS Linework.
Highway Other	This feature should only be selected when the project feature doesn't fit into another feature. Examples may include improving pavement markings and/or signage, concrete barriers, overhead signage, rumble strips, or lighting.	Improvement(s), Location(s)	Select/Trace LRS Linework.

**SMART SCALE FY 2024  
Readiness Guide by Feature Selection**

Feature Label in Portal	Warning Message	Feature Comment Minimum Details Needed	Portal Mapping
Improve Grade-Separated Interchange	Provide a draft or final Interchange Access Report (IAR), Operational and Safety Analysis Report (OSAR) or similar planning study that includes an alternatives analysis and supports the proposed alternative. The report or study shall address the appropriate elements described in IIM-LD-200.11 and Traffic Operations and Safety Analysis Manual (TOSAM) guidelines for the proposed access modifications. Concurrence of the appropriate District and Assistant State Location and Design Engineer is required. FHWA coordination may be required.	Major Road, Minor Road, Improvement(s)	Select/Trace LRS Linework. Draw function if new interchange is of a different type than existing.
Improve Rail Crossing	None	Remove crossing: Roadway, Upstream location, Downstream location Improve crossing: Roadway, Improvement(s), Upstream location, Downstream location	Select/Trace LRS Linework for road/rail crossings. Draw function for rail segments using project limits.
Improve/Replace Existing Bridge(s)	None	Identify Improve or Replace, Roadway, Location, Improvement(s)	Select/Trace LRS Linework. Draw function if bridge is not replaced along the same alignment.
Innovative Intersection(s) / Roundabout(s)	Provide a traffic operational analysis (i.e., HCS, Synchro, SIDRA, etc.) to support this feature.	Intersection Type, Major Street, Minor Street	Select/Trace LRS Linework. Example Roundabout.
Intersection Improvement(s)	This feature should only be selected when the project feature doesn't fit into another feature. Examples may include realignment or other geometric improvements.	Improvements, Major Roadway, Minor Roadway	Select/Trace LRS Linework.
ITS Improvement(s) / Adaptive Signal Control	Provide a study that includes an operational analysis to support this feature documenting a preferred alternative that is consistent with the scope described in the application.	Describe improvements or new features in detail.	Select/Trace LRS Linework.
Managed Lane(s) (HOV/HOT/Shoulder)	Provide a study that includes an operational analysis to support this feature documenting a preferred alternative that is consistent with the scope described in the application. If a major widening (two or more lanes), the planning study must include an alternatives analysis that considers improvements without widening.	Length, Improvement(s), Roadway, Start Location, End Location	Select/Trace LRS Linework. Draw function for new alignment using project limits.
New Bridge	None	Over/Under, Roadway, Mode	Select/Trace LRS Linework. Draw function for new alignment using project limits.
New Interchange, Limited Access Facility	Provide a draft or final Interchange Access Report (IAR) or similar planning study that includes an alternatives analysis and supports the proposed alternative. The report or study shall address the elements described in IIM-LD-200.11 and Traffic Operations and Safety Analysis Manual (TOSAM) guidelines for a new interchange. Concurrence of the appropriate District and Assistant State Location and Design Engineer is required. FHWA coordination may be required.	Type of interchange, Major Roadway, Minor Roadway	Select/Trace LRS Linework. Draw function for new alignment using project limits.
New Interchange, Non-Limited Access Facility	Provide a draft or final Interchange Access Report (IAR) or similar planning study that includes an alternatives analysis and supports the proposed alternative. The report or study shall address the elements described in IIM-LD-200.11 and Traffic Operations and Safety Analysis Manual (TOSAM) guidelines for a new interchange. Concurrence of the appropriate District and Assistant State Location and Design Engineer is required	Type of interchange, Major Roadway, Minor Roadway	Select/Trace LRS Linework. Draw function for new alignment using project limits.
New Intersection	None	Major Roadway, Minor Roadway	Select/Trace LRS Linework. Draw function for new alignment using project limits.
New Traffic Signal	Provide an approved signal justification report for your project to support this feature.	Major Roadway, Minor Roadway	Select/Trace LRS Linework.

**SMART SCALE FY 2024  
Readiness Guide by Feature Selection**

Feature Label in Portal	Warning Message	Feature Comment Minimum Details Needed	Portal Mapping
Ramp Improvement(s)	Provide a draft or final Operational and Safety Analysis Report (OSAR) or similar planning study that includes an alternatives analysis and supports the proposed alternative. The report or study shall address the appropriate elements described in IIM-LD-200.11 and Traffic Operations and Safety Analysis Manual (TOSAM) guidelines for the minor access modifications related to ramps, ramp termini and traffic control. Concurrence of the appropriate District and Assistant State Location and Design Engineer is required. SMART SCALE readiness requirements exempt acceleration and deceleration lane extensions, but an OSAR or similar study could be required by VDOT if selected for funding.	Direction, Roadway, Exit Number, Off-Ramp/On-Ramp, Improvement(s)	Select/Trace LRS Linework.
Road Diet	Provide a traffic operational analysis (i.e., HCS, Synchro, etc.) to support this feature.	Reduce lane width: Direction, Roadway, Existing width, Proposed width, Length, Start location, End location Reduce lane number: Direction, Roadway, Existing lanes, Proposed lanes, Length, Start location, End location	Select/Trace LRS Linework.
Roadway on New Alignment	Provide a Planning Study/Safety Study to support this feature documenting a preferred alternative that is consistent with the scope described in the application. The planning study must include an alternatives analysis that considers improvements not on a new alignment.	Length, Number of lanes, Divided/Undivided, Start Location, End Location, Posted Speed/Design Speed, Speed	Draw function for new alignment using project limits.
Roadway Reconstruction/Realignment	None	Roadway, Location	Select/Trace LRS Linework.
Shoulder Improvement(s)	None	Direction, Roadway, Existing width, Proposed width, Length, Start location, End location	Select/Trace LRS Linework.
Traffic Signal Modification	None	Major roadway, Minor roadway, Improvement(s)	Select/Trace LRS Linework.
Turn Lane Improvement(s)	Provide turning movement counts, so this improvement can be analyzed.	Extend existing: Direction, Movement(s), Major Roadway, Minor Roadway, Existing Storage/Taper, Proposed Storage/Taper Construct new: Number of new lanes, Direction, Channelized?, Movement(s), Major roadway, Minor roadway, Storage/Taper	Select/Trace LRS Linework.
Widen Existing Lane(s) (No New Lanes)	None	Direction, Roadway, Existing width, Proposed width, Length, Start Location, End location	Select/Trace LRS Linework.
Intercity Passenger Rail Service Improvements	Fill out the Transit Pearl for your project.	Start/end locations, New track construction details	Select/Trace LRS Linework for road/rail crossings. Draw function for rail segments using project limits.
New Intercity Passenger Rail Station or Station Improvements	Fill out the Transit Pearl for your project.	Location, line(s) served	Select/Trace LRS Linework for road/rail crossings. Draw function for rail segments, drive aisles, or access points using project limits.
New Station or Station Improvements	Fill out the Transit Pearl for your project.	Start location, End location, New track construction details	Select/Trace LRS Linework for road/rail crossings. Draw function for rail segments, drive aisles, or access points using project limits.
Rail Service Improvements	Fill out the Transit Pearl for your project.	Location, line(s) served	Select/Trace LRS Linework for road/rail crossings. Draw function for rail segments using project limits.
Rail Transit Other	Fill out the Transit Pearl for your project.	Describe improvements or new features in detail.	Select/Trace LRS Linework for road/rail crossings. Draw function for rail segments using project limits.
Includes In-Plan Utility Betterment	None	Describe improvements or new features in detail.	Select/Trace LRS Linework.
Includes Utility Relocations	None	Describe improvements or new features in detail.	Select/Trace LRS Linework.
Right-of-Way/Easements acquisition required	None	Describe improvements or new features in detail.	Select/Trace LRS Linework.
Improve Park and Ride Lot	Include a project sketch that clearly depicts the lot location, lot boundaries, entry and exit points, parking space layout, increase in number of parking spaces, transit circulation, and amenities where applicable.	Location, Improvement(s), and include any new vehicle spaces, new ADA spaces, new vanpool spaces, new bicycle spaces.	Select/Trace LRS Linework. Draw function for drive aisles and access points using project limits.

**SMART SCALE FY 2024**  
**Readiness Guide by Feature Selection**

Feature Label in Portal	Warning Message	Feature Comment Minimum Details Needed	Portal Mapping
New Park and Ride Lot	Include a project sketch that clearly depicts the lot location, lot boundaries, entry and exit points, parking space layout, increase in number of parking spaces, transit circulation, and amenities where applicable.	Location, Number of vehicle spaces, Number of ADA spaces, Number of vanpool spaces, Number of bicycle spaces, Other amenities.	Select/Trace LRS Linework. Draw function for drive aisles and access points using project limits.
New/Expanded Vanpool or On-Demand Transit Service	Fill out the Transit Pearl for your project and upload a feasibility study including ridership projections.	Describe improvements or new features in detail.	Select/Trace LRS Linework.
TDM Other	This feature should only be selected when the project feature doesn't fit into another feature. Examples include ridesharing or teleworking features.	Describe improvements or new features in detail.	Select/Trace LRS Linework.