



Clark County 2018-2023 Transportation Improvement Program (TIP)

Proposed Project Evaluation System

Clark County Planning Commission

May 4, 2017

BOCC Hearing Room

Presented by Susan Wilson and Michael Derleth
Clark County Public Works



Agenda

- Guiding Principals and Legal Requirements
- Evaluation System Goals
- Ranking Criteria Details
- Other Suggestions

Guiding Principles and Legalities

BOCC Guiding Principles:

Debt Service Payment

Safety

Preservation of Roadways & Assets

Capital Projects

Legal Requirements:

RCW 36-81-121 and WAC 136-16-010.

All capital road projects are to be in ACP/TIP.

County Engineer to **“develop and apply”** priority programming. WAC 136-14

Board adopts before budget - Board action required to later amend TIP.

RCW 36-81-130

TIP follows adopted policies and Comprehensive Plan via the Capital Facilities Plan.

Evaluation System Goals:

Safety 33%	Economic Development 29%	Mobility 24%
<div data-bbox="63 476 566 572"> <p><u>Safety Rating</u> 30 Points HSM, Physical road features</p> </div>	<div data-bbox="610 476 1336 572"> <p><u>Support for Economic Development</u> 20 Points VBLM Potential future jobs created.</p> </div> <div data-bbox="610 743 1870 839"> <p><u>Concurrency</u> 10 Points Level of Service, Volume/Capacity. Evaluates Congested areas</p> </div>	<div data-bbox="1377 476 1875 572"> <p><u>Route Connectivity</u> 10 Points Atlas, Links to other roadways</p> </div> <div data-bbox="1377 611 1875 706"> <p><u>Multimodal</u> 6 Points Access to alternative transportation</p> </div>
<div data-bbox="63 886 1870 982"> <p><u>Comparison to Arterial Atlas</u> 10 Points Evaluates the existing roadway section with standard arterial cross-sections specified in the County's Arterial Atlas.</p> </div>		
<div data-bbox="301 1062 1628 1148"> <p>Other 14% Environmental Impacts Public & Outside Agency Support Leveraging of Outside Funding</p> </div>		



Ranking Criteria

- Objective, data-based, best practices
- Nine different criteria:

	Points
○ Safety	30
○ Economic Development	20
○ Arterial Atlas	10
○ Concurrency	10
○ Route Connectivity	10
○ Multimodal Needs	6
○ Environmental Impact	6
○ Funding Leverage	6
○ Public & Outside Support	<u>2</u>
Total: 100 Points	



Safety:

- Performance Score 20 Points
 - 5 year Crash History
 - Highway Safety Manual (HSM) Analysis

 - Risk Exposure Score 10 Points
 - Shoulder Widths
 - Roadside Drop-off
 - Pedestrian Trips
 - Sight Distance, Alignment, etc.
 - Fixed Objects
 - Bike Lanes
 - Sidewalks
- Total: 30 Points



Economic Development:

Potential Jobs: Geographic Information Systems analysis

Vacant Buildable Lands Model

Consistency with CFP, Growth Plans

Considers non-buildable land (net jobs)

- **Potential Industrial Jobs** **0-7 Points**
 - 9 jobs per net-buildable acre
 - Projects listed in increasing order of jobs 0-7 pts
- **Potential Commercial Jobs** **0-4 Points**
 - 20 jobs per net-buildable acre
 - Projects listed in increasing order of jobs 0-4 pts



Economic Development (#2):

- Potential Industrial Jobs 0-7 Points
- Potential Commercial Jobs 0-4 Points
- Development Potential: Within 1 mile of:
 - Focused Public Investment Area? 4 Points
 - Development Ready Site? 4 Points
 - State Highway/Interchange? 1 Points

Max: 20 Points



Comparison to Arterial Atlas:

Atlas describes current and future road needs and official classifications: Circulation!

- Current road section vs. Atlas:

- Requires additional travel lanes 1 Point
- Requires center/left turn lane 2 Points
- Requires sidewalks 1 Point
- Requires bike lanes 1 Point

Total: 5 Points



Concurrency:

Have road capacity ready when it is needed (CCC 40.350.020)

- Improves Intersections of Regional Significance
 - Failing (LOS: E,F) 6 Points
 - Within 10% of failing (LOS: D) 4 Points
- Improves a Concurrency Corridor
 - Failing (V/C: > 0.90) 3 Points
 - Within 10% of failing (V/C 0.80>0.89) 2 Points



Concurrency (#2):

- Improves Intersections of Regional Significance 6 Points
- Improves a Concurrency Corridor 3 Points
- Improves Congestion in Moratorium Area
 - Alleviates Congestion (improves LOS or V/C) 1 Points
 - Doesn't improve LOS or V/C 0 Points
- Improves Transportation in Urban Holding Area
 - Project Within a UH Area 4 Points
 - Project Adjacent to a UH Area 2 Points

Max: 10 Points

Total: 14 Possible



Route Connectivity:

- How does a project link to other arterial and collector routes in the Arterial Atlas?
 - Links both Arterial(s) and Collector(s) 3 Points
 - Links two Arterials 2 Points
 - Links two collectors 1 Point
 - Completes a gap 2 Points
- Max: 5 Points
Total: 8 Possible



Multimodal:

- Does the project improve access to multimodal facilities?
 - Improves defined bicycle route 2 Points
 - Improves access to Park & Ride 2 Points
 - Improves access to C-Tran route (within project limits) 2 Points
 - Improves access to trail or trailhead 1 Point
- Max: 6 Points
Total: 7 Possible

Environmental:

- Impacts and the ability to obtain permits:

Concern:	Difficulty:	Low/No	Moderate	High
NEPA/SEPA				
Wetland Permits				
Habitat Permits		0.75 pts per	0.40 pts per	0.00 pts per
Shoreline Permits		Concern	Concern	Concern
Endangered Species				
Cultural Resources				
Size of Impacts				
Mitigation Site				

Total: 6 Points



Funding Leverage:

- What non-County funds are awarded?

State/Federal grants, regional, developer fees, etc.

- | | |
|---|-----------------|
| <input type="radio"/> 50% outside funds | 6 Points |
| <input type="radio"/> 40% | 5 Points |
| <input type="radio"/> 30% | 4 Points |
| <input type="radio"/> 20% | 3 Points |
| <input type="radio"/> 10% | 2 Points |
| <input type="radio"/> No funds awarded | <u>0 Points</u> |

Max: 6 Points



Public & Other Support:

- Any other formal support for a project?
 - Regional Transportation Council (MTIP)
State Transportation Plan
or surrounding City Trans. Plan? 1 Point
 - Formal Public Support (e.g. adopted neighborhood circulation plan)? 1 Point
 - No formal support 0 Points
- Max: 2 Points



Summary:

- Ranking projects for the TIP:
 - Legally required
 - Supports other county long-range plans
 - Detailed, objective, best-practices criteria.
- Ranked list is a starting point for decisions



Other Suggestions?



Thank you,
We appreciate your interest!

Any other questions?

More information:

<https://www.clark.wa.gov/public-works/transportation-improvement-program>

Jobs Points Example

TIP - Excel Industrial Economic Data Import - Step 3

CRP	JobsPerAc	Score
342422	448.650000	7.000000
900084	383.939991	7.000000
323322	383.489991	7.000000
333122	379.619982	7.000000
900120	279.539973	5.000000
900184	250.200000	5.000000
901004	170.280000	5.000000
350722	153.899991	3.000000
900282	54.719991	1.000000
390222	27.809991	1.000000
351022	22.949991	0.000000
900255	3.690000	0.000000
351522	0.000000	0.000000
900032	0.000000	0.000000
900256	0.000000	0.000000
900258	0.000000	0.000000
900259	0.000000	0.000000

Min Jobs	Max Jobs	Score
300	450	7
156	299	5
100	155	3
25	99	1
0	24	0

Note: Jobs entered above must cover all possible ranges that are in the spreadsheet jobs per acre.

Preview