

Memorandum



CITY OF DALLAS

DATE September 5, 2017

Honorable Members of the Mobility Solutions, Infrastructure and Sustainability
TO Committee: Lee M. Kleinman (Chair), Rickey D. Callahan (Vice-Chair), Sandy
Greyson, Adam Medrano, Casey Thomas, II and Tennell Atkins

SUBJECT **Getting to Know the Envision® Rating System**

On Monday, September 11, 2017, you will be briefed on Getting to Know the Envision®
Rating System. The briefing materials are attached for your review.

Please feel free to contact me if you have any questions or concerns.

A handwritten signature in black ink, appearing to read 'Jo M. Puckett'.

Jo M. (Jody) Puckett
Assistant City Manager (Interim)

[Attachment]

C: Honorable Mayor and Members of the City Council
T.C. Broadnax, City Manager
Larry Casto, City Attorney
Craig D. Kinton, City Auditor
Billerae Johnson, City Secretary (Interim)
Daniel F. Solis, Administrative Judge
Kimberly Bizer Tolbert, Chief of Staff to the City Manager
Majed A. Al-Ghafry, Assistant City Manager

Jon Fortune, Assistant City Manager
Joey Zapata, Assistant City Manager
M. Elizabeth Reich, Chief Financial Officer
Nadia Chandler Hardy, Chief of Community Services
Raquel Favela, Chief of Economic Development & Neighborhood Services
Theresa O'Donnell, Chief of Resilience
Directors and Assistant Directors



City of Dallas



Getting to Know the Envision® Rating System

SEPTEMBER 11, 2017

MAJED AL-GHAFRY
ASSISTANT CITY MANAGER
TODD BUCKINGHAM
PROJECT MANAGER, FNI

- LEED
 - Focused on Human-Occupied Buildings
 - Focused on Architecture Elements
- Envision[®] Rating System
 - Variety of Civil Infrastructure NOT Buildings



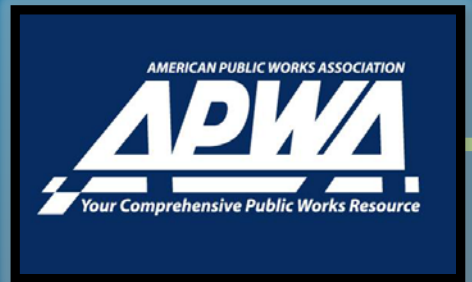
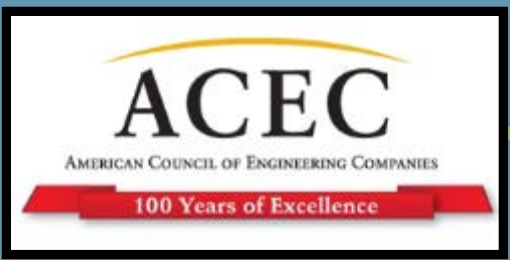
- Civil Infrastructure Rating Systems
 - Typically Rating Systems Per Sector
(Buildings, Roadways, Site Development)
- Envision[®] Rating System
 - Flexible, Broad to Span Multiple Infrastructure Sectors



ENVISION[®] RATING SYSTEM



History and Organization:



2010



2011



Project Types:

- Roadways
- Bridges
- Pipelines
- Railways
- Airports
- Pump Stations
- Dams
- Levees
- Landfills
- Parks
- Treatment Plants
- Hike and Bike Trails



Purpose:

To foster improvements in ECONOMIC, SOCIAL, and ENVIRONMENTAL aspects of projects






MAJOR CREDIT CATEGORIES



QUALITY OF LIFE
13 Credits



LEADERSHIP
10 Credits



RESOURCE ALLOCATION
14 Credits



NATURAL WORLD
15 Credits



CLIMATE AND RISK
8 Credits

MAJOR CREDIT CATEGORIES



Addresses a project's impact on surrounding communities, from the health and wellbeing of individuals to the wellbeing of the larger social fabric as a whole.

- PURPOSE
- COMMUNITY
- WELLBEING



MAJOR CREDIT CATEGORIES



LEADERSHIP

10 Credits

Addresses the project team's involvement of a wide variety of people in creating ideas for the project, and understanding the long-term, holistic view of the project and its life cycle.

- COLLABORATION
- MANAGEMENT
- PLANNING





MAJOR CREDIT CATEGORIES



RESOURCE ALLOCATION

14 Credits

Addresses the concerns with the quantity, source, and characteristics of the project's resources and their impacts on the overall sustainability of the project.

- MATERIALS
- ENERGY
- WATER



MAJOR CREDIT CATEGORIES



Addresses how to understand and minimize the project's negative impacts while considering ways in which the infrastructure can interact with natural systems in a synergistic, positive way.

- SITING
- LAND + WATER
- BIODIVERSITY



MAJOR CREDIT CATEGORIES



CLIMATE
AND RISK
8 Credits

Addresses minimizing a project's emissions that may contribute to increased short and long-term risks and ensuring that infrastructure projects are resilient to short-term hazards or altered long-term future conditions.

- EMISSION
- RESILIENCE





ENVISION[®] RATING SYSTEM

- 5 Major Credit Categories
- 14 Credit Subcategories
- 60 Individual Credits (5 Innovation Credits)



QUALITY OF LIFE
13 Credits



LEADERSHIP
10 Credits



RESOURCE ALLOCATION
14 Credits



NATURAL WORLD
15 Credits



CLIMATE AND RISK
8 Credits

1 PURPOSE

- QL1.1 Improve Community Quality of Life
- QL1.2 Stimulate Sustainable Growth & Development
- QL1.3 Develop Local Skills & Capabilities

2 WELLBEING

- QL2.1 Enhance Public Health & Safety
- QL2.2 Minimize Noise and Vibration
- QL2.3 Minimize Light Pollution
- QL2.4 Improve Community Mobility & Access
- QL2.5 Encourage Alternative Modes of Transportation
- QL2.6 Improve Accessibility, Safety, & Wayfinding

3 COMMUNITY

- QL3.1 Preserve Historic & Cultural Resources
- QL3.2 Preserve Views & Local Character

1 COLLABORATION

- LD1.1 Provide Effective Leadership & Commitment
- LD1.2 Establish A Sustainability Management System
- LD1.3 Foster Collaboration & Teamwork
- LD1.4 Provide for Stakeholder Involvement

2 MANAGEMENT

- LD2.1 Pursue By-Product Synergy Opportunities
- LD2.2 Improve Infrastructure Integration

3 PLANNING

- LD3.1 Plan For Long-Term Monitoring & Maintenance
- LD3.2 Address Conflicting Regulations & Policies
- LD3.3 Extend Useful Life
- LD0.0 Innovate or Exceed Credit Requirements

1 MATERIALS

- RA1.1 Reduce Net Embodied Energy
- RA1.2 Support Sustainable Procurement Practices
- RA1.3 Use Recycled Materials
- RA1.4 Use Regional Materials
- RA1.5 Divert Waste From Landfills
- RA1.6 Reduce Excavated Materials Taken Off Site
- RA1.7 Provide For Deconstruction & Recycling

2 ENERGY

- RA2.1 Reduce Energy Consumption
- RA2.2 Use Renewable Energy
- RA2.3 Commission & Monitor Energy Systems

3 WATER

- RA3.1 Protect Fresh Water Availability

1 SITING

- NW1.1 Preserve Prime Habitat
- NW1.2 Protect Wetlands & Surface Water
- NW1.3 Preserve Prime Farmland
- NW1.4 Avoid Adverse Geology
- NW1.5 Preserve Floodplain Functions
- NW1.6 Avoid Unsuitable Development on Steep Slopes
- NW1.7 Preserve Greenfields

2 LAND+WATER

- NW2.1 Manage Stormwater
- NW2.2 Reduce Pesticide & Fertilizer Impacts
- NW2.3 Prevent Surface & Groundwater Contamination

3 BIODIVERSITY

- NW3.1 Preserve Species Biodiversity

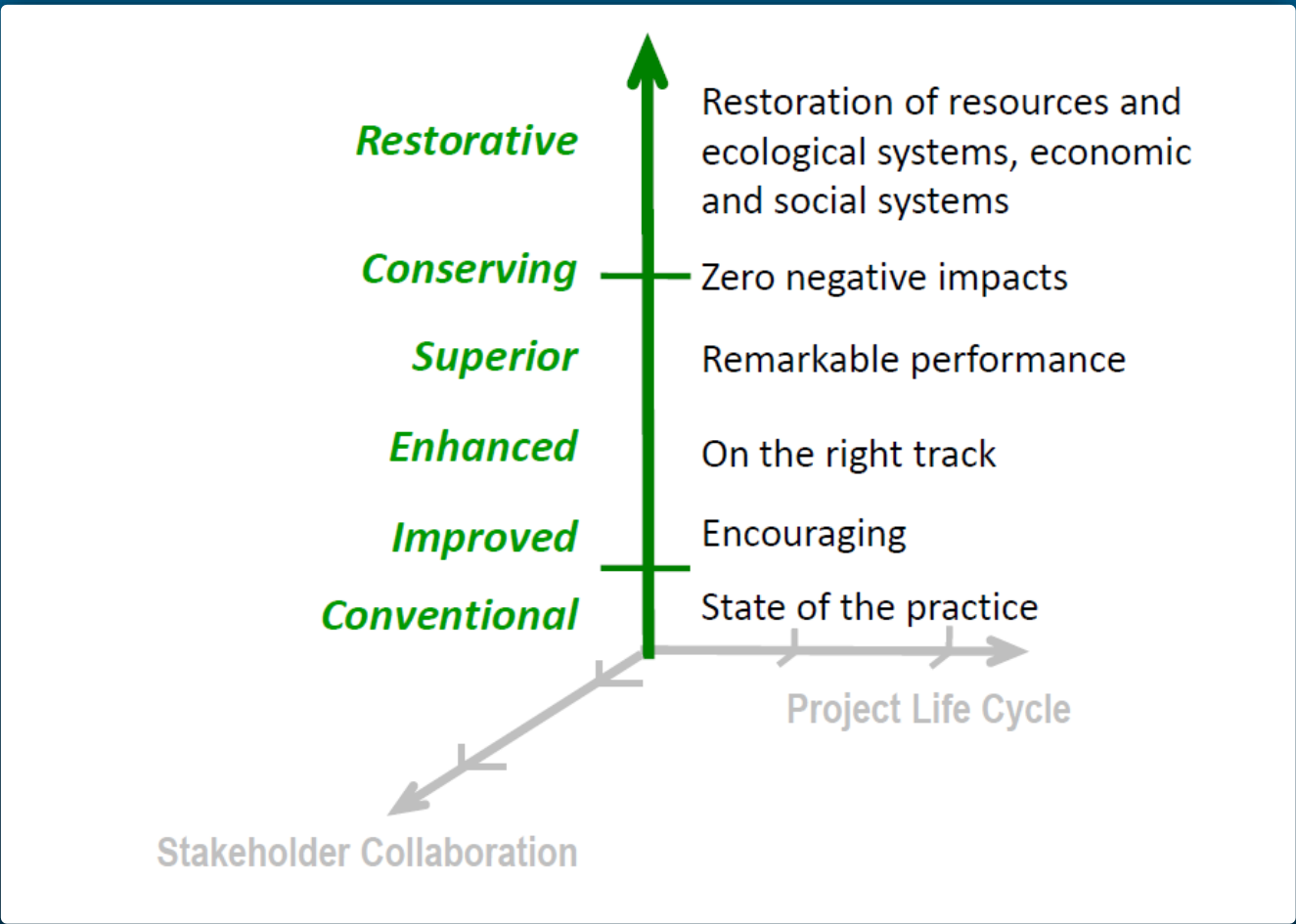
1 EMISSIONS

- CR1.1 Reduce Greenhouse Gas Emissions
- CR1.2 Reduce Air Pollutant Emissions

2 RESILIENCE

- CR2.1 Assess Climate Threat
- CR2.2 Avoid Traps & Vulnerabilities
- CR2.3 Prepare For Long-Term Adaptability
- CR2.4 Prepare For Short-Term Hazards
- CR2.5 Manage Heat Island Effects
- CR0.0 Innovate or Exceed Credit Requirements

Envision[®] Levels of Achievement:



Credentialing

- In-Person or Online Training
- Envision[®] Sustainability Professional
- Ability to Submit for Project Verification

Project Verification and Award

- Verification Cost Based on Project Size

Note: System Can Be Used Without Verification

ENVISION[®] RATING SYSTEM



Credentialing: April 25, 2017
37 City of Dallas Employees
Trained by Freese and Nichols, Inc.



International Use

- 6,200+ Credentialed Professionals
- 39 Project Awards
- More Than \$32.5 Billion of Infrastructure

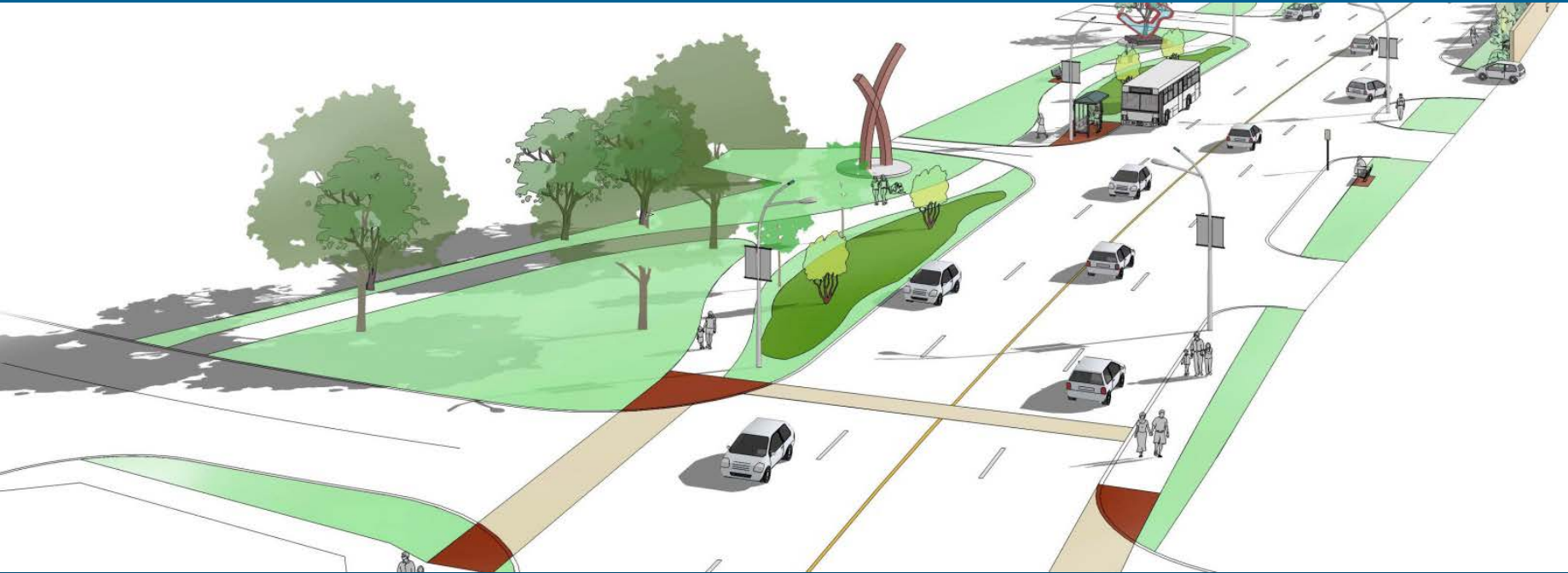


Next Steps

- Continue to Train Project Managers
- Implement in Project Development Process



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