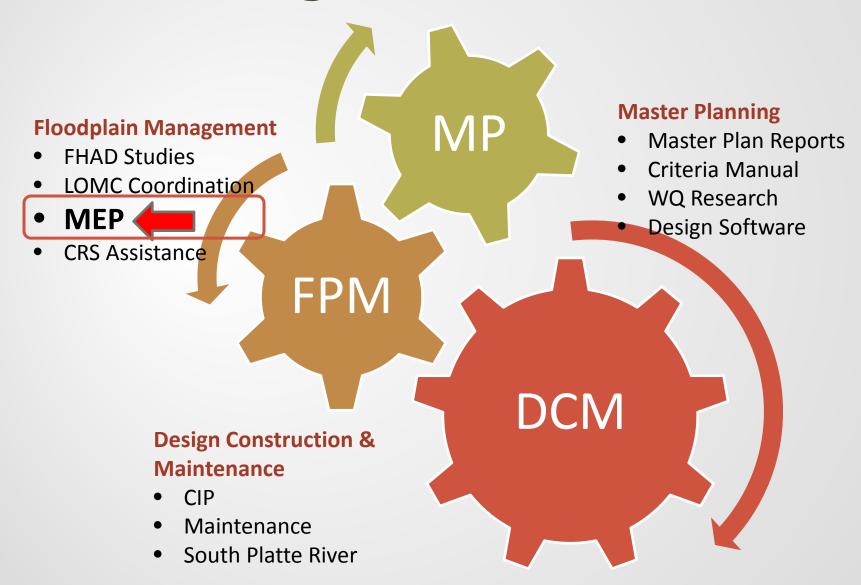
MEP Final Acceptance: Site Stability and Revegetation

Mike Sarmento, Senior Construction Manager msarmento@udfcd.org



UDFCD Organization



Maintenance Eligibility Policy

"Facilities constructed by or approved for construction by a local public body after March 1, 1980, must be approved by the District in order for these facilities to be eligible for District maintenance assistance."

MEP specifically deals with developer and local government projects and should NOT be confused with DCM-constructed projects which are <u>automatically</u> MEP eligible.

MEP Phases

Phase 1 – Referral

- Plats,
- Site Plans
- Zoning Plans

Phase 2 – Design Approval

Construction Plans Phase 3 – Construction Approval

• Construction

Phase 4 – Final Acceptance

Vegetation
 Established/Site
 Stabilized

David

Teresa

Mike

Mike & Teresa

Construction Approval Letter

MEMORANDUM

TO: Dan Stillwell

Metro Wastewater Reclamation District

ROM: David Mallocy

Manager, Floodpluin Management Program

SUBJECT: Acceptance of Construction of Project for Maintenance Eligibility

DATE: December 10, 2014

The construction of two grounds boulder drop structures and bank stabilization at Sand Crock Bank Sublimation at Sand Crock Bank Sublimation at WHITE (Metro Wastewards) is accepted for District maintenance construct. The complaints is based upon variable specified in the project which as writable to the saled specified specified to construct as a certification of the structural integrity of any element of the project. A final determination of unsintenance eligibility will be made upon achieved of an adequate together occurs. It is your proposability to above the District in unsing when you find you desire the cover. It is your proposability to above the with your or a representative.

The following conditions apply.

- The project qualifies for Routine Maintenance for the entire length of the project (from the confluence with the South Plats River up to the FRICO property line approximately 20 feet downstream of the imigation canal structure).
- The project qualifies for Restorative Maintenance, excluding the upstream section between the irrigation canal and first drop structure
- First I Acceptance of the project is dependent on installation of the future garde control
 improvements planned downstream of this project and once adoptate vegetains cover has
 been established. Plans for future goods control improvements must also be reviewed and
 obtained Design Austronia, Construction Approval, and Paul Acceptance.

It is your responsibility to obtain approvals from UDFCD in writing for the future grade control improvements planned downstream and to obtain approval of the vegetative cover.

David Mallory, P.E. Manager, Floodplum Management Program

DLM/gh
Enclosure (completion report)
cc: David Bennetts, UDFCD

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SPECIAL NOTE: Construction Acceptance does <u>NOT</u> mean you've achieved Final Acceptance for MEP!

Structural Integrity: What are We Looking for?

- Stream improvements and adjacent disturbed areas!
- Structural integrity
 - Damage
 - Overall Stability
- Maintenance
 - Sediment removal



Keys to Success for Site Stability

- MONITOR the site
- Set an inspection schedule
- Types of Problems: design/construction, unanticipated disturbances
- Communicate issues
- Site Remediation prior to acceptance

Final Stabilization Examples

The Good

The Bad





Keys to Success for Revegetation

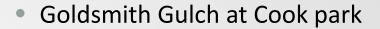
- Pre-construction site survey
- Formal restoration plan
- Avoid canned/"cookbook" seed mixes
- Monitor construction progress
- Review final grades before equipment demobilized
- Use a QUALIFIED revegetation contractor

Keys to Success for Reveg (Cont.)

- Monitor the Reveg installation
- Post-revegetation monitoring
- Replace dead/severely stressed trees PRIOR to the warranty inspection
- Replace mulch and/or repair blankets
- UNDERSTAND that it takes time!

Other Examples

 Bear Creek upstream of Lowell Blvd







A Word on Weed Management

#1 - Disturbance promotes weed growth!

• Plan Ahead!

• Weeds are the competition!

Bare areas are anchor opportunities

Constant vigilance pays off!

Weeds Won't Work!



Final Acceptance Issues

- Requesting final acceptance before site is ready:
 - Vegetation too sparse
 - Bank erosion and/or channel erosion/sedimentation
 - Dead/dying trees and shrubs

Sediment accumulation in WQ structures

Final Acceptance! Now what?

Eligible for maintenance assistance from UDFCD

 Local Government MUST request and submit a maintenance request to UDFCD's DCM program.

- Acceptance based on:
 - Local Government prioritization
 - DCM Program funding

What's Our Goal: The <u>Final Acceptance</u> Letter

MEMORANDUM

ΓΟ: Steve Krawczyk, Jefferson County

FROM: David Mallory, Manager, Floodplain Management Program

SUBJECT: Certification of Maintenance Eligibility

DATE: July 9, 2014

The construction of two storm sewer outfalls to Van Bibber Creek at Wild Horse Ranch Filing 2 in Section 10, T3S, R70W, Jefferson County, Colorado is eligible for District maintenance assistance. This approval is based upon visual inspection of those elements of the project which are visible to the naked eye, and should not be construed as a certification of the structural integrity of any element of the project.

David Mallory, P.E. Manager, Floodplain Management Program

UD ID 3595 DLM/mc

cc: David Bennetts, UDFCD



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