CASFM Lunch and Learn

Good Example of Detention Basin with Water Quality

No Name Creek – Tall Grass Basin

Approved by UDFCD Maintenance Eligibility Program

Maintained by UDFCD Design, Construction, and Maintenance Program

CASFM Lunch and Learn

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Background on WQCV and EURV

Lessons Learned and Design Considerations

No Name Creek – Belleview Detention Basin

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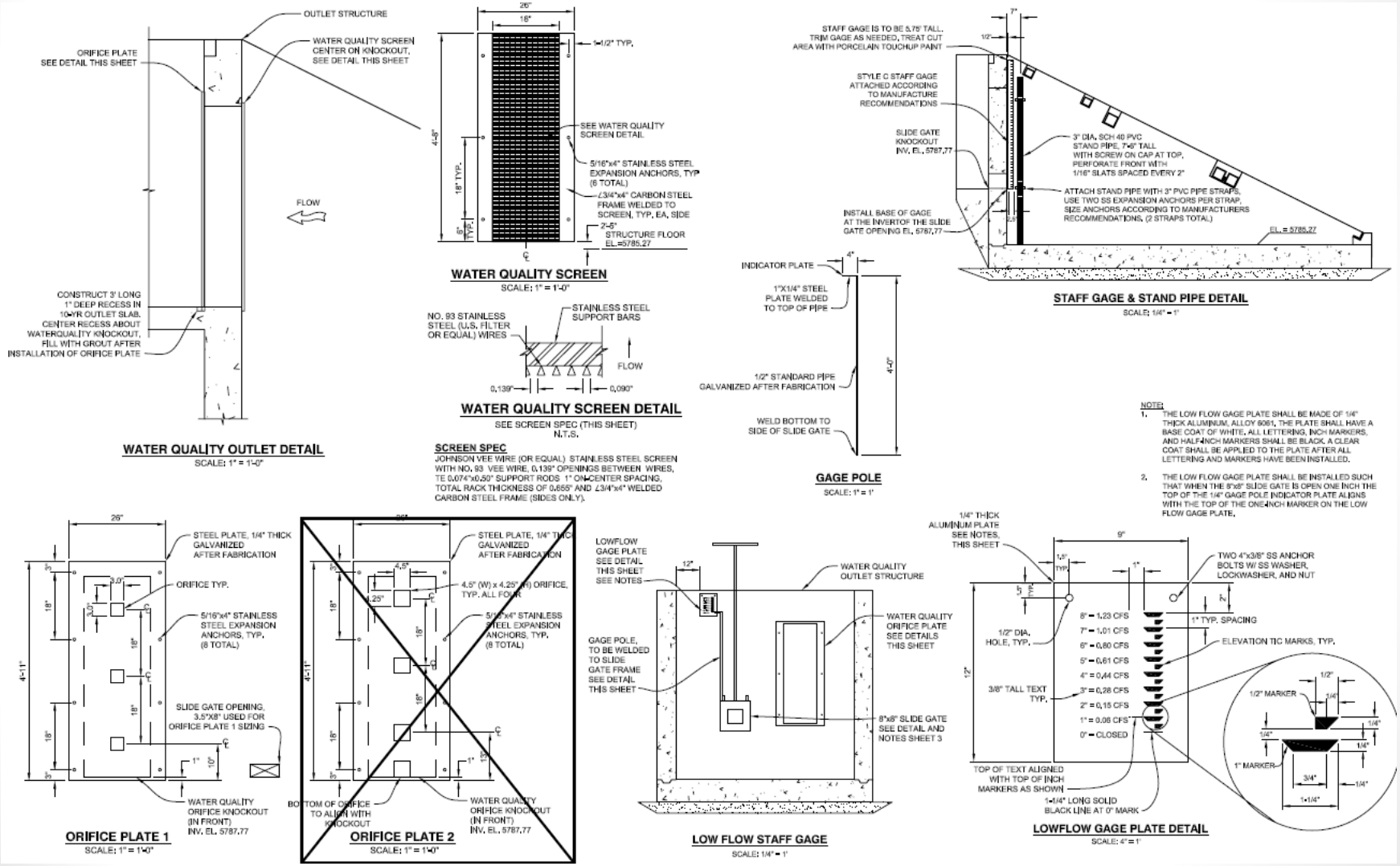
Lessons Learned and Design Considerations

No Name Creek – Belleview Detention Basin

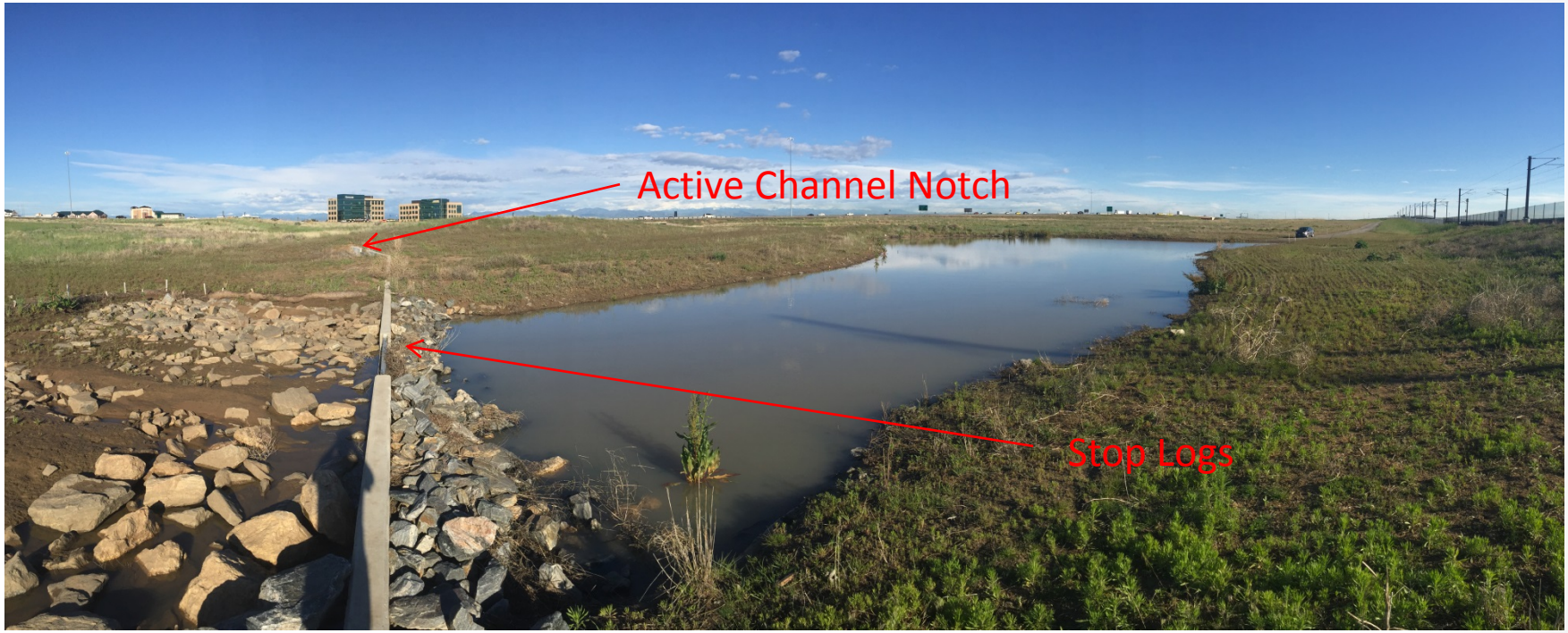


Lessons Learned and Design Considerations

Irondale Gulch – Silverado II Detention Basin

Lessons Learned and Design Considerations

Irondale Gulch – Silverado II Detention Basin



Lessons Learned and Design Considerations

Irondale Gulch – Silverado II Detention Basin

Lessons Learned and Design Considerations

Irondale Gulch – Silverado II Detention Basin

Lessons Learned and Design Considerations

Sable Ditch – Sable Detention Basin

Lessons Learned and Design Considerations

Sable Ditch – Sable Detention Basin

Lessons Learned and Design Considerations

Sable Ditch – Sable Detention Basin

Lessons Learned and Design Considerations

East Toll Gate Creek – Hampden Avenue Detention Basin

Lessons Learned and Design Considerations

East Toll Gate Creek – Hampden Avenue Detention Basin

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East Toll Gate Creek – Hampden Avenue Detention Basin

Lessons Learned and Design Considerations

Cherry Creek – Ring Road Detention Basin

Lessons Learned and Design Considerations

Cherry Creek – Ring Road Detention Basin

Lessons Learned and Design Considerations

Cherry Creek – Ring Road Detention Basin

Lessons Learned and Design Considerations

Cherry Creek – Ring Road Detention Basin

Lessons Learned and Design Considerations

No Name Creek – Tall Grass Basin

Lessons Learned and Design Considerations
Realistic Maintenance Plan for Water Quality Basins

1. Plan on routine debris removal and outlet trash rack and screen cleaning minimum 5 times per year.
2. Check outlet is functioning after each storm add additional cleanings as-needed.
3. Forebay is cleaned anywhere between 2 times per year to once every 5 years.
4. Micropool is cleaned out every 5-10 years.
5. Whole pond sediment removal every 15-30 years

Lessons Learned and Design Considerations
Rich and Jeff's Top Six List

1. Don't try to fit 10 pounds of potatoes into a 5 pound bag.
2. Don't mow detention basins with water quality.
3. How does the design consider maintenance?
4. Debris and pond clean out is cheap, don't skimp on this maintenance.
5. Observation and monitoring are urgent.
6. To err is human, to learn and adjust is critical.

Agenda

1. Introduction(Rich)
2. Lessons Learned and Design Considerations (Rich and Jeff)
3. Realistic Maintenance Plan (Rich)
4. Top things to consider for Maintenance and Design.