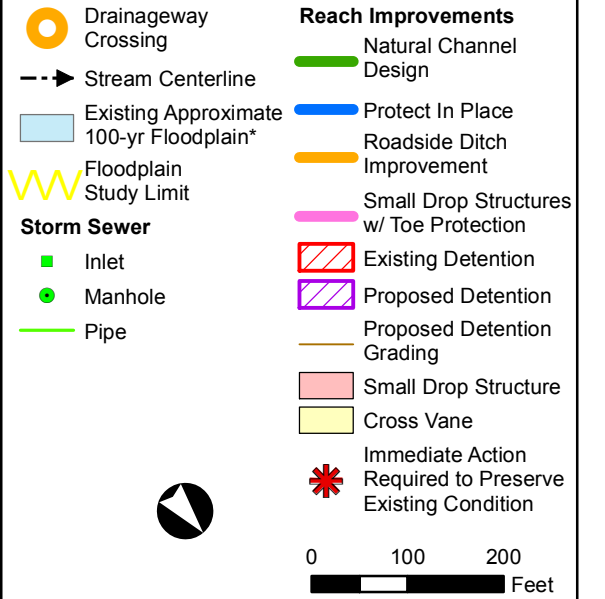


Sheet 6-2
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

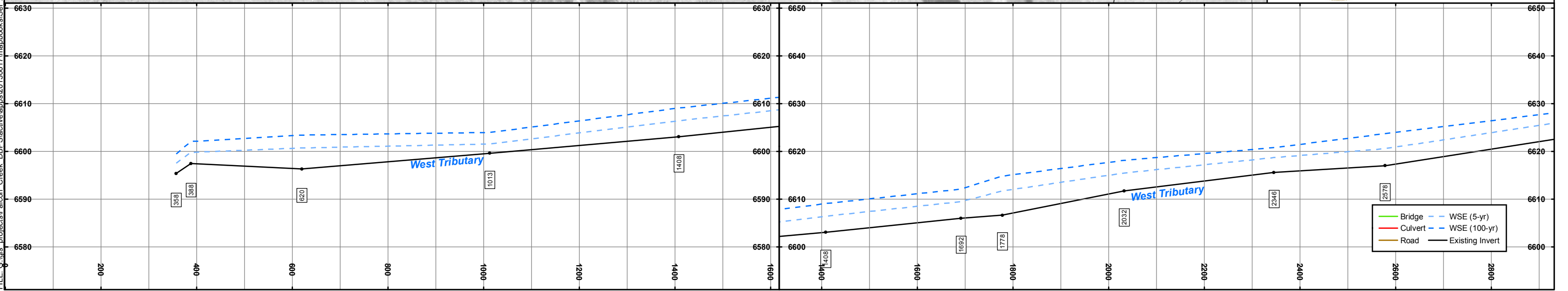


* These approximate 100-yr floodplain boundaries are for planning purposes only. This information is not intended to replace the information provided on the FEMA Flood Insurance Rate Maps for this area.
 ** These are conceptual design drawings and are subject to change. These drawings are not intended for construction purposes.

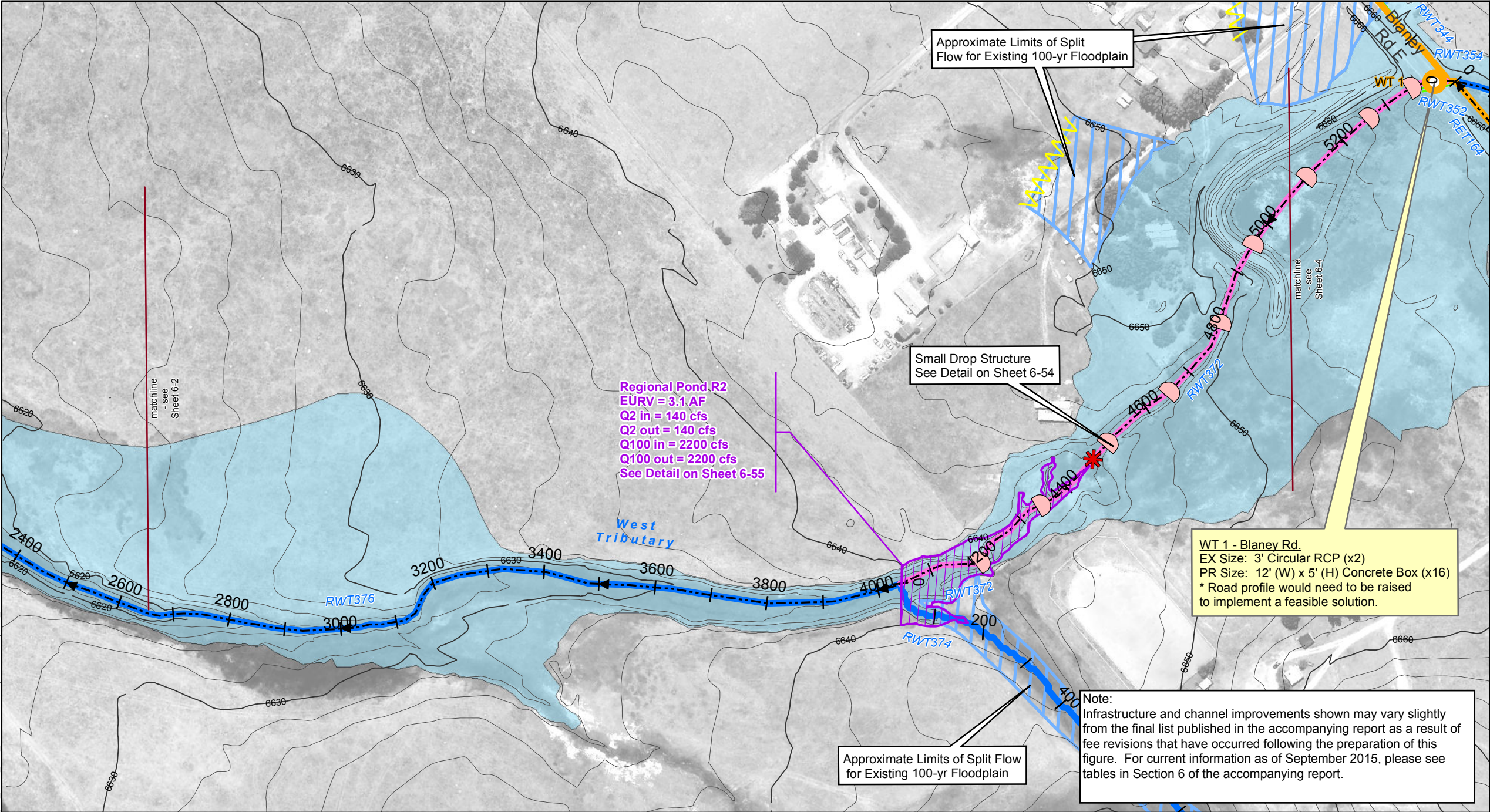


Matrix
DESIGN GROUP

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FILE: G:\gis_projects\Falcon Creek DBPS\active\apps20130617\mapbook\sel Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonts



Sheet 6-3

Falcon DBPS

Conceptual Plan

West Tributary

El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer

- Inlet
- Manhole
- Pipe

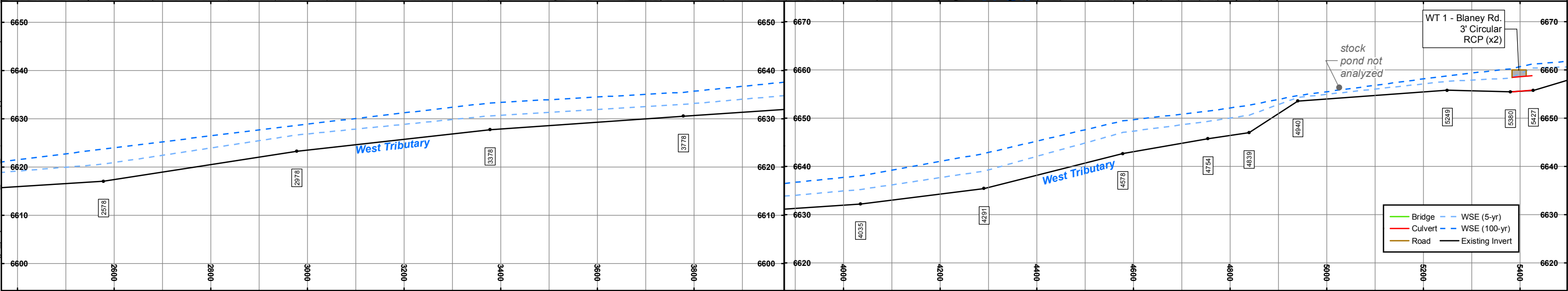
Reach Improvements

- Natural Channel Design
- Protect In Place
- Roadside Ditch Improvement
- Small Drop Structures w/ Toe Protection
- Existing Detention
- Proposed Detention
- Proposed Detention Grading
- Small Drop Structure
- Cross Vane
- Immediate Action Required to Preserve Existing Condition

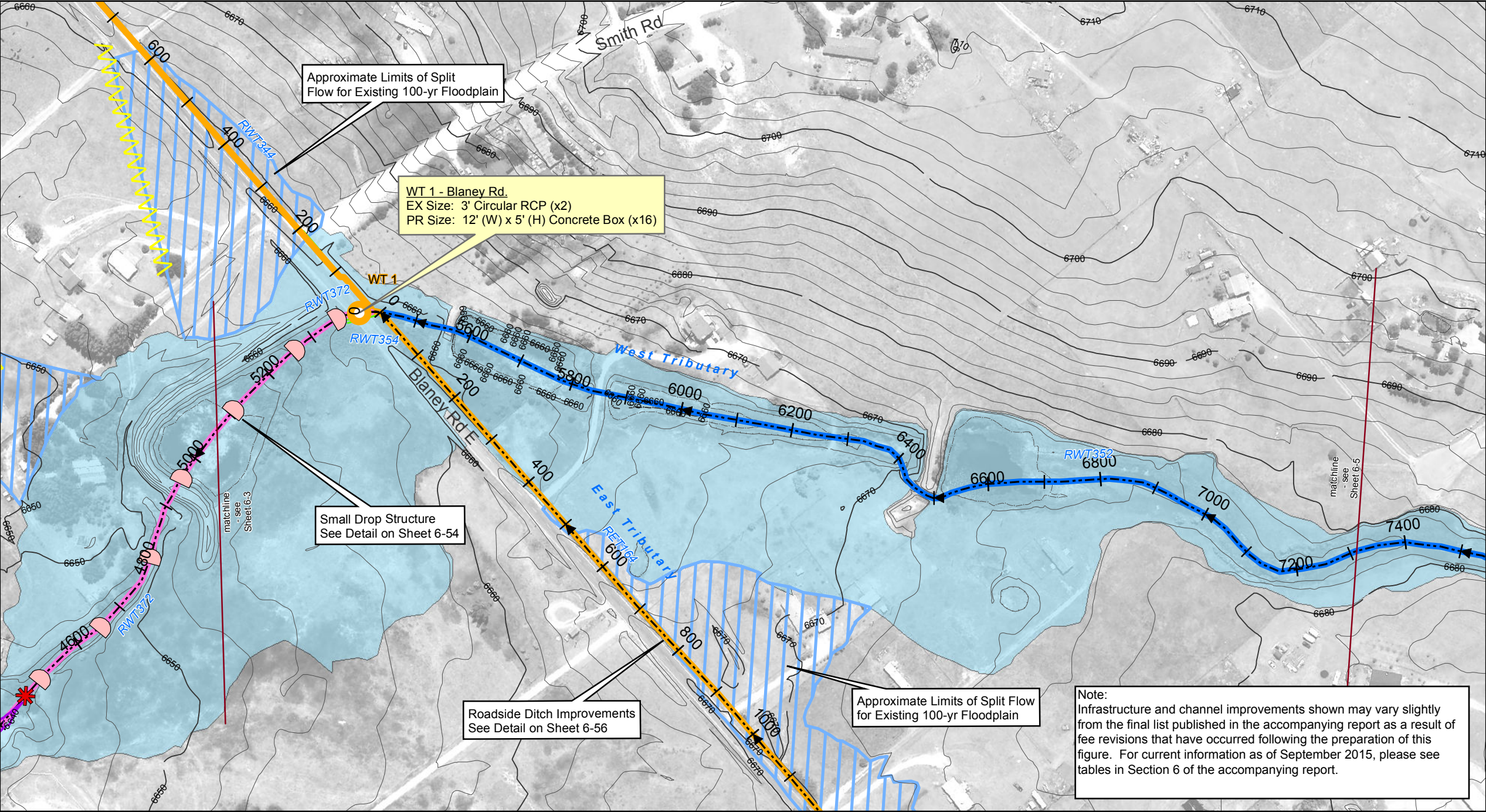
0 100 200 Feet

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Index Map



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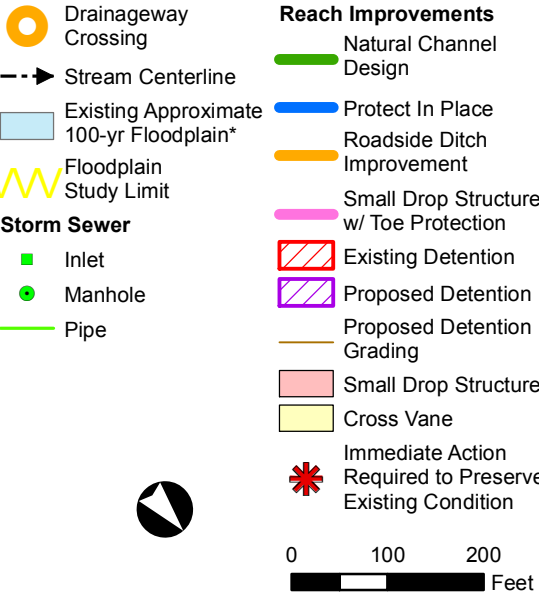
Sheet 6-4

Falcon DBPS

Conceptual Plan

West Tributary

El Paso County, CO

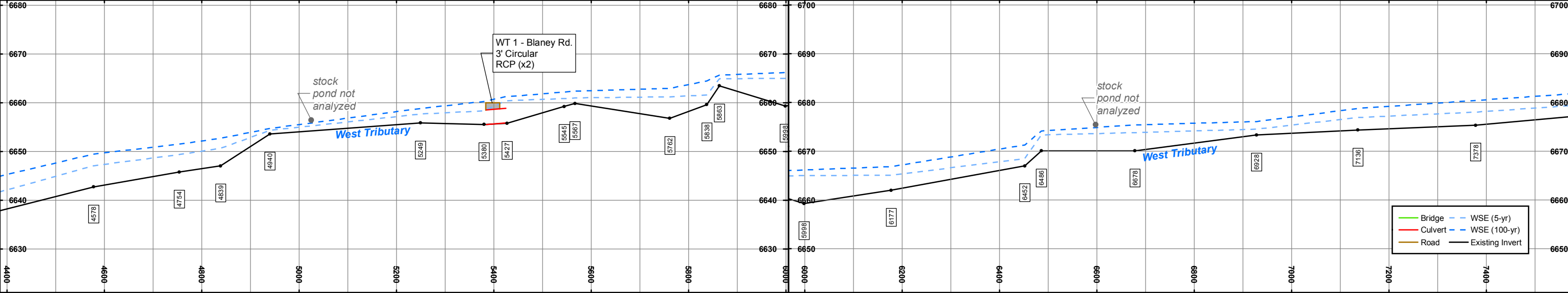


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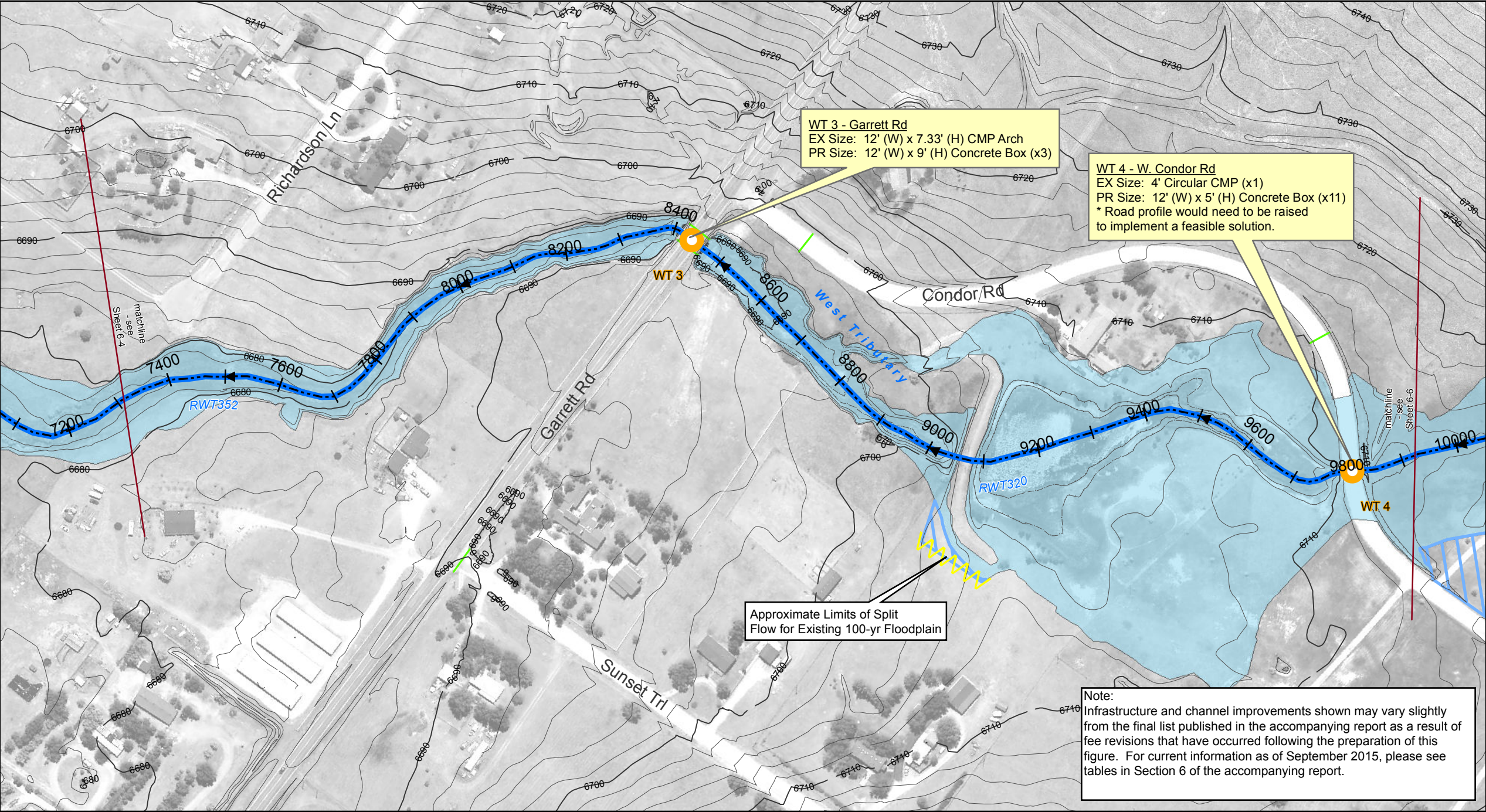


Matrix
DESIGN GROUP

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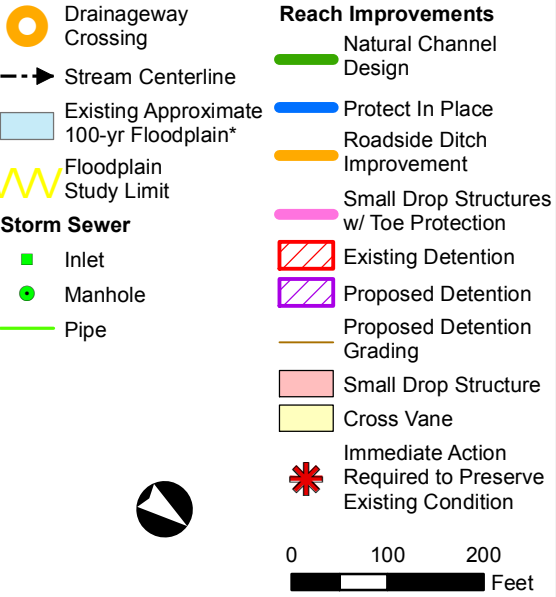
WT 3 - Garrett Rd
EX Size: 12' (W) x 7.33' (H) CMP Arch
PR Size: 12' (W) x 9' (H) Concrete Box (x3)

WT 4 - W. Condor Rd
EX Size: 4' Circular CMP (x1)
PR Size: 12' (W) x 5' (H) Concrete Box (x11)
* Road profile would need to be raised to implement a feasible solution.

Approximate Limits of Split Flow for Existing 100-yr Floodplain

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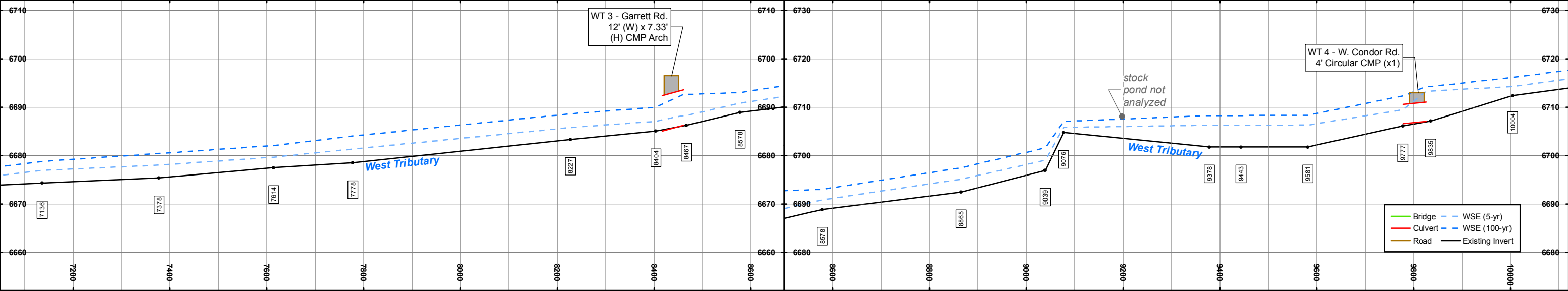
Sheet 6-5 Falcon DBPS Conceptual Plan West Tributary El Paso County, CO



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Matrix
DESIGN GROUP

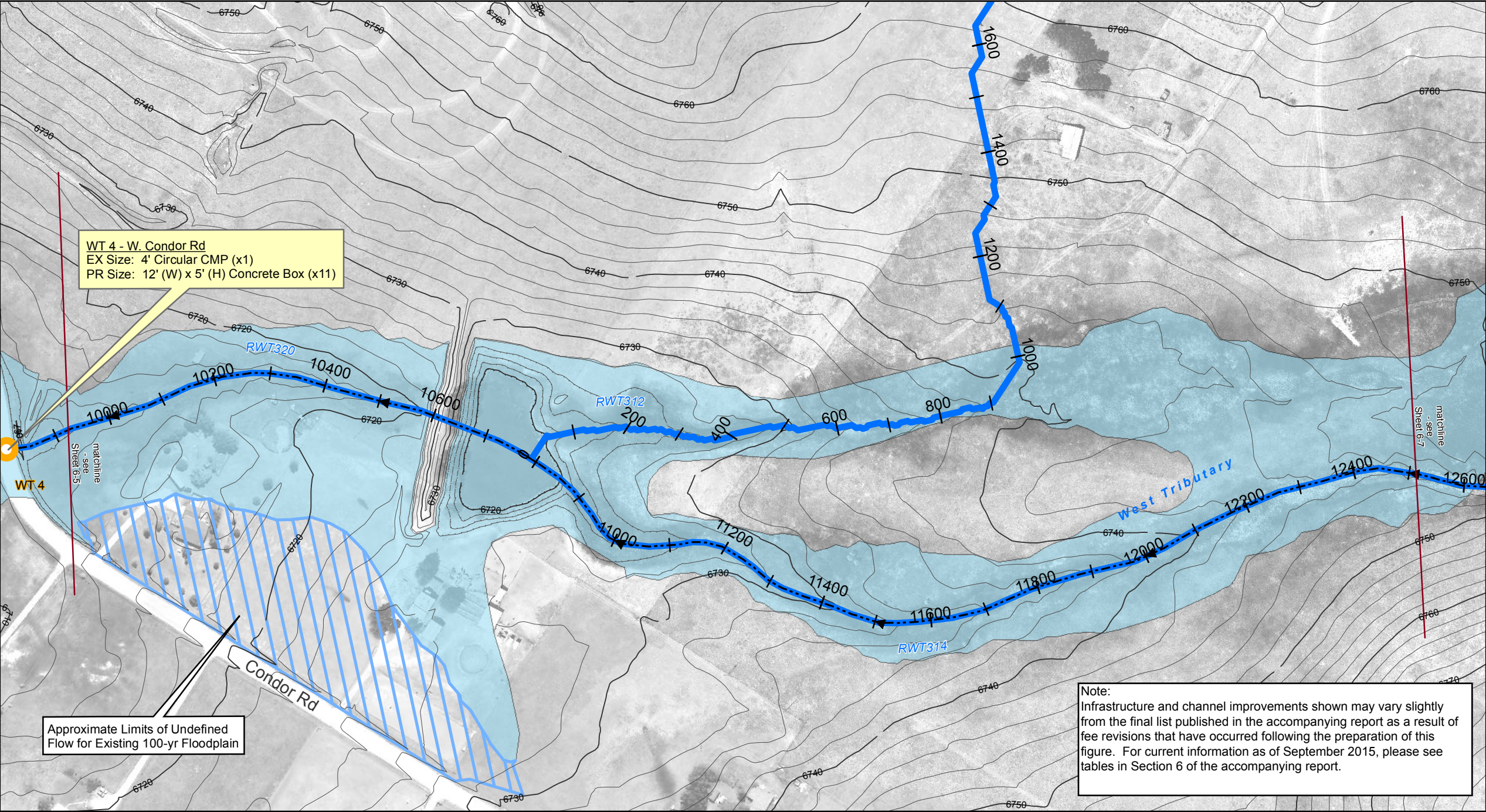


WT 3 - Garrett Rd.
12' (W) x 7.33'
(H) CMP Arch

WT 4 - W. Condor Rd.
4' Circular CMP (x1)

Bridge — WSE (5-yr)
Culvert — WSE (100-yr)
Road — Existing Invert

FILE: G:\gis\projects\Falcon Creek DBPS\active\apps\20130617\mapbooks\Sel Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonts



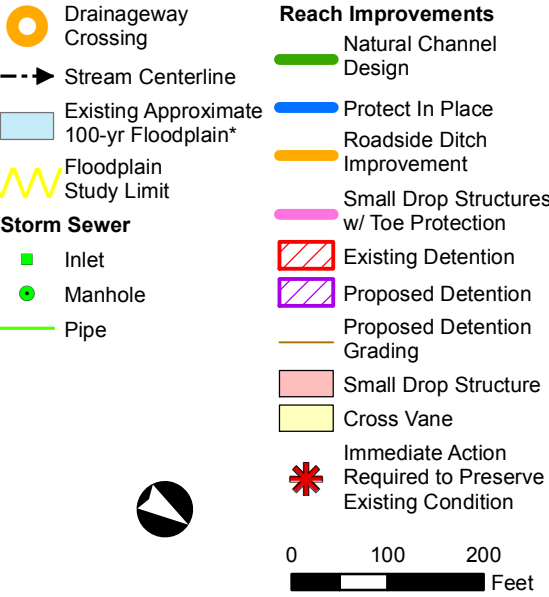
Sheet 6-6

Falcon DBPS

Conceptual Plan

West Tributary

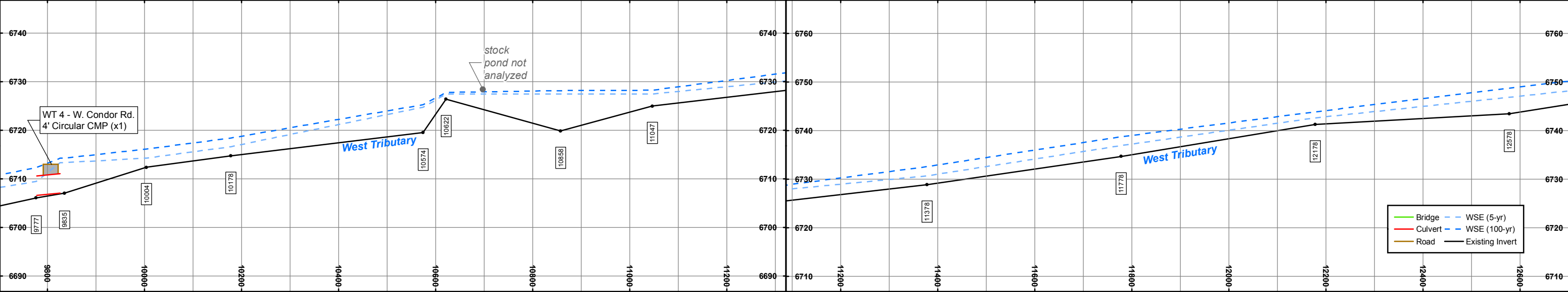
El Paso County, CO



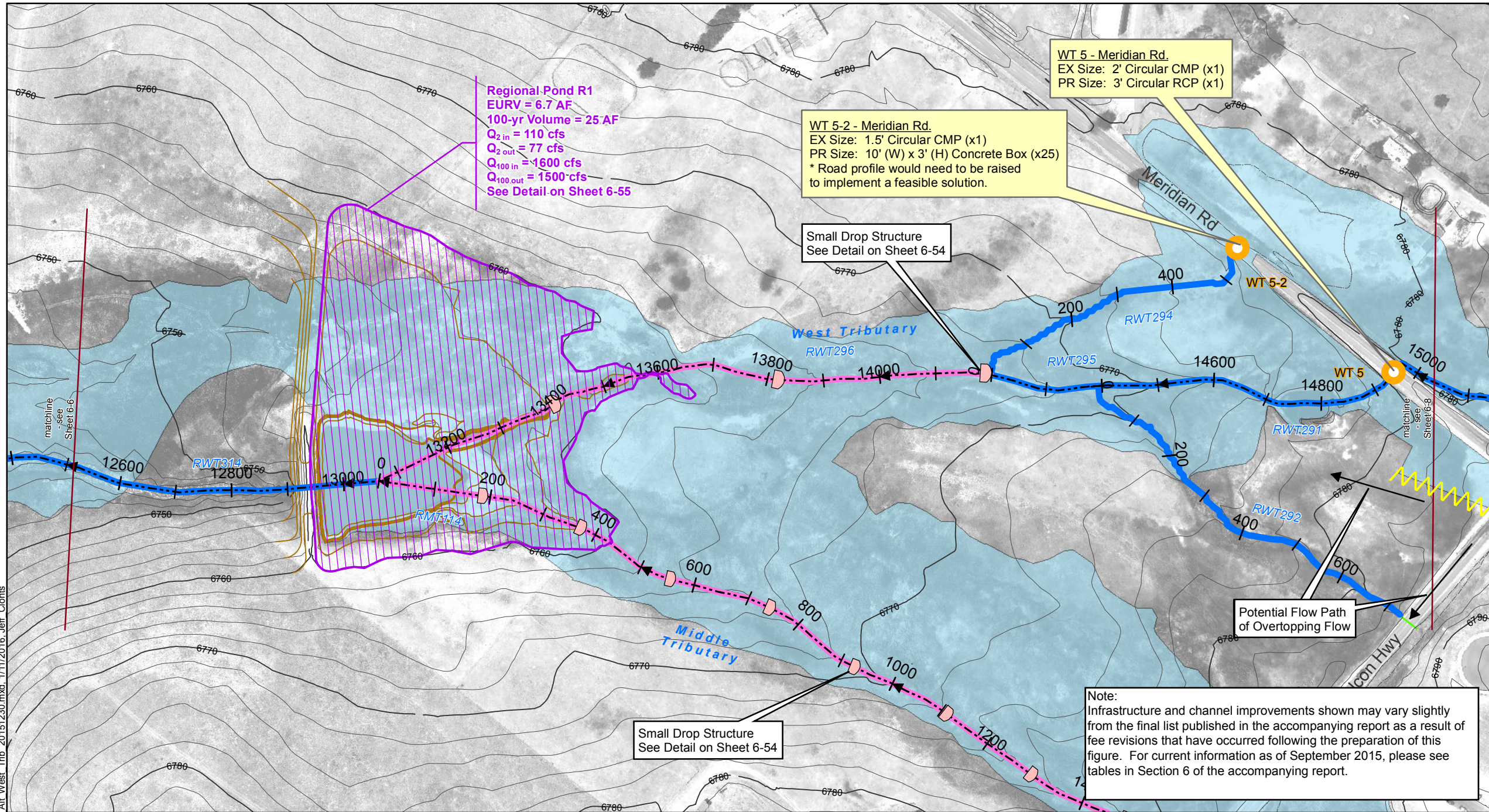
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Matrix
DESIGN GROUP



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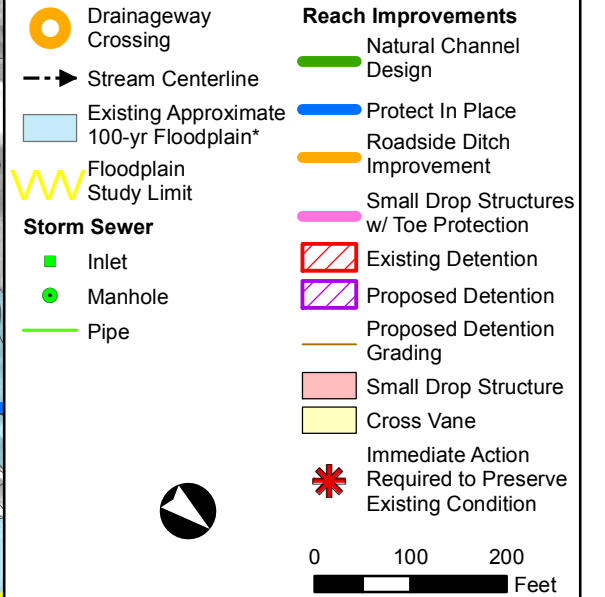
Sheet 6-7

Falcon DBPS

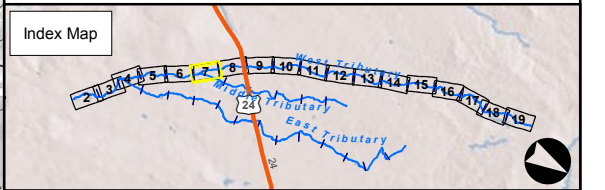
Conceptual Plan

West Tributary

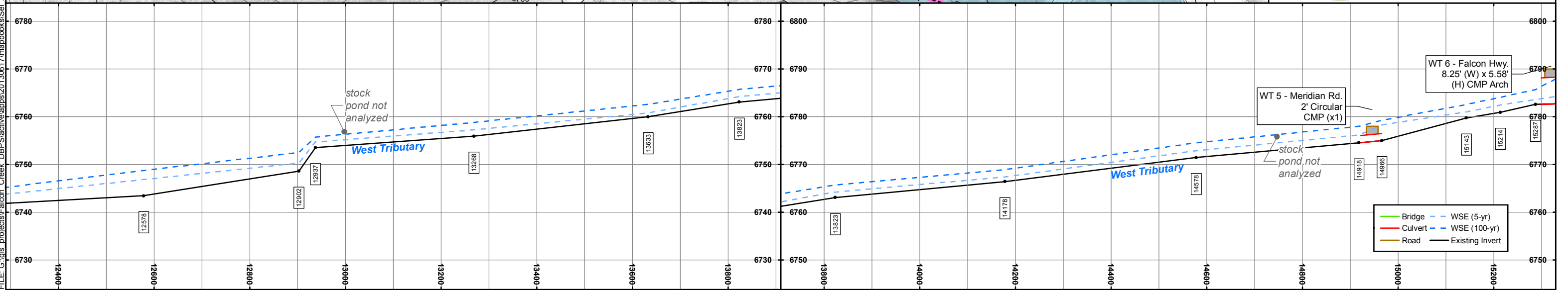
El Paso County, CO



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Matrix
DESIGN GROUP



Sheet 6-8
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer

Inlet

Manhole

Pipe

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition

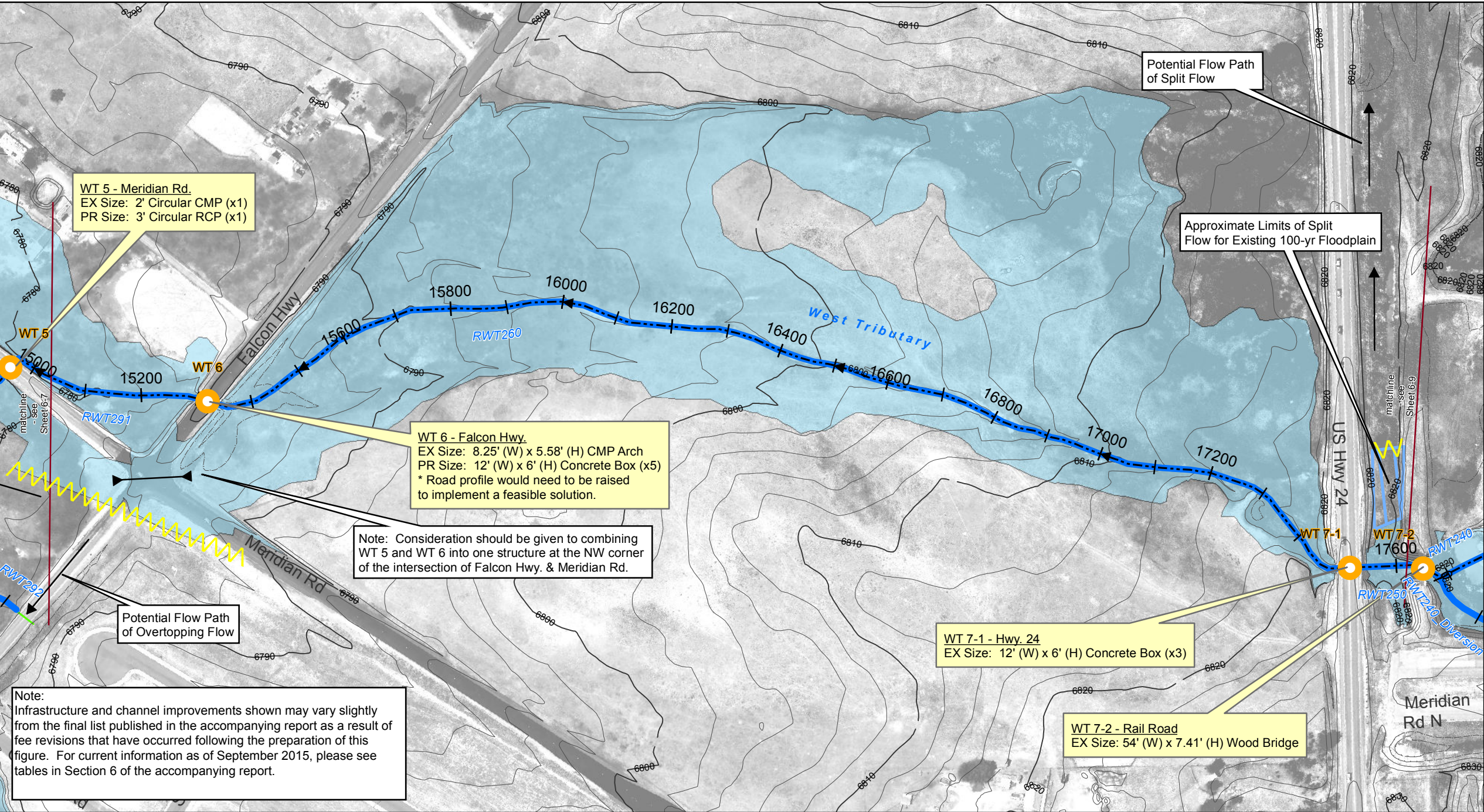
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100

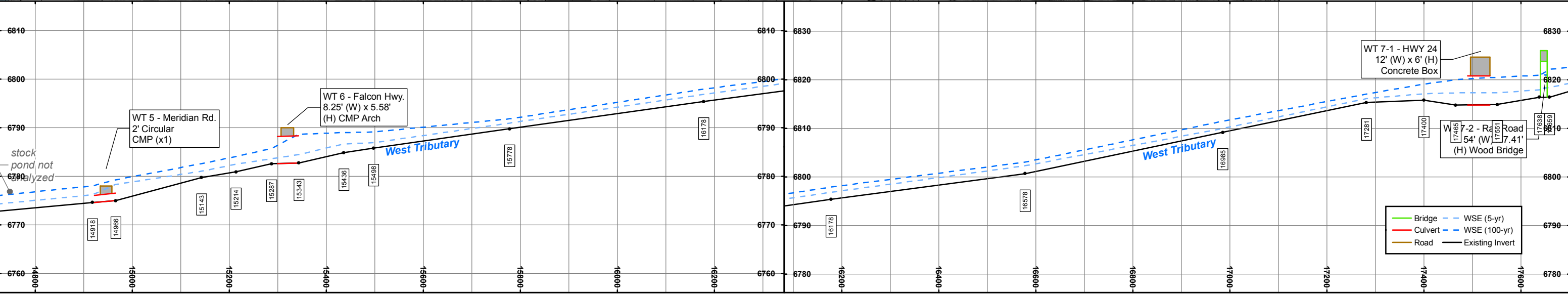
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Feet

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FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps\20130617\mapbooks\Sel Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonts

Sheet 6-9
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Inlet

Manhole

Pipe

Storm Sewer

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition

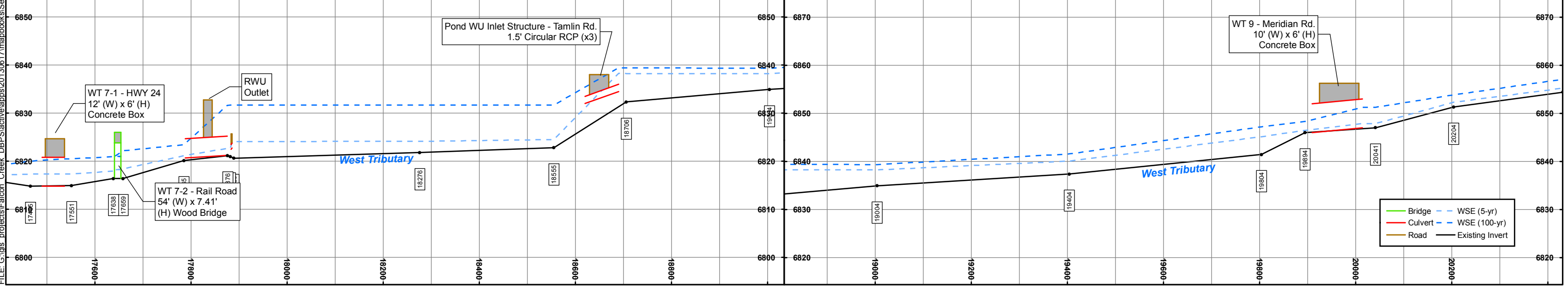
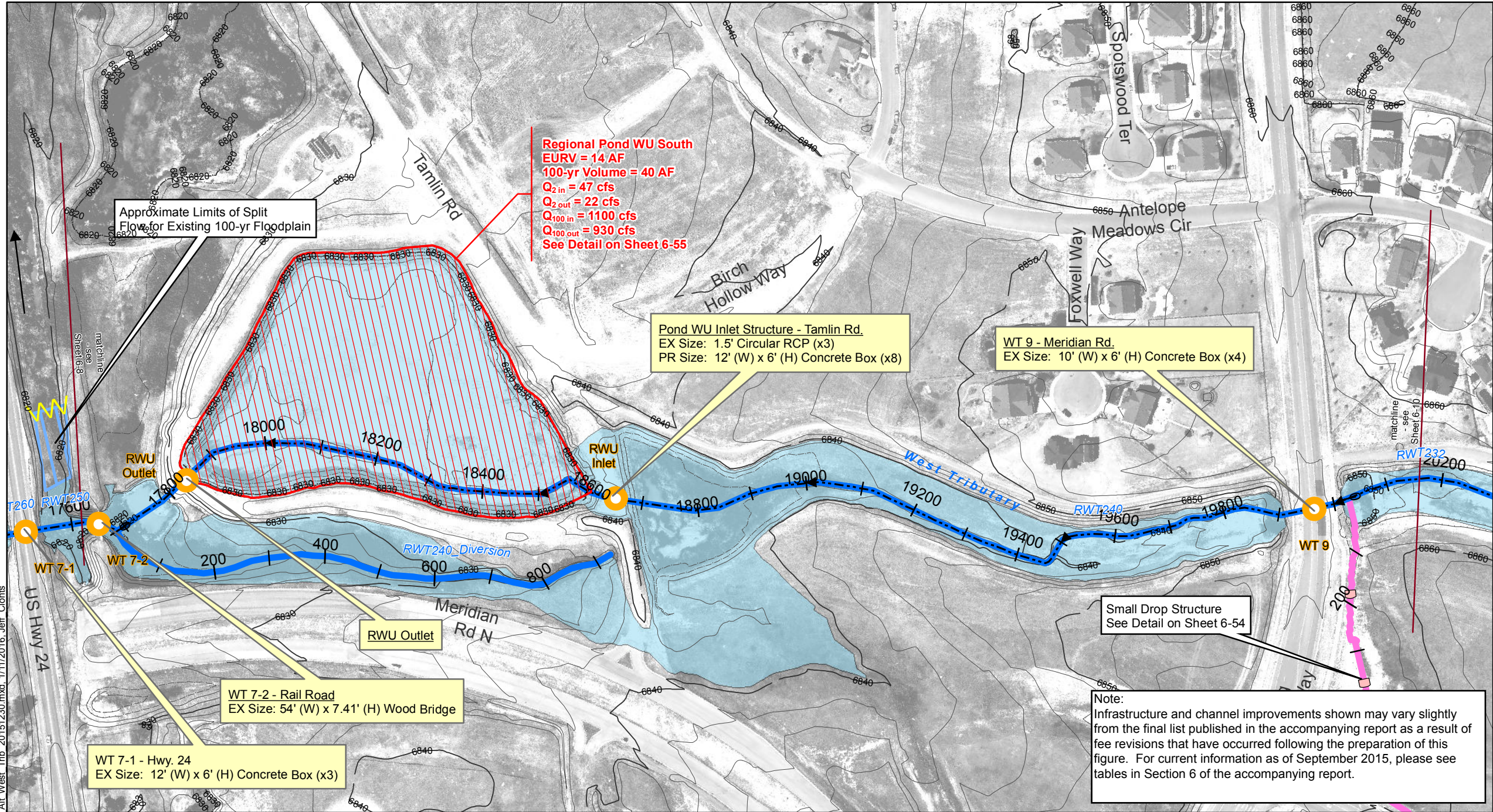
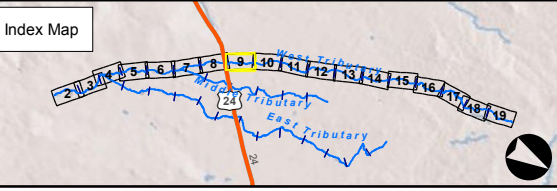
0

100

200

Feet

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FILE: G:\gis_projects\Falcon Creek DBPS\active\apps\20130617\mapbooks\Set Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonts

Sheet 6-10
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Inlet

Manhole

Pipe

Storm Sewer

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition

Reach Improvements

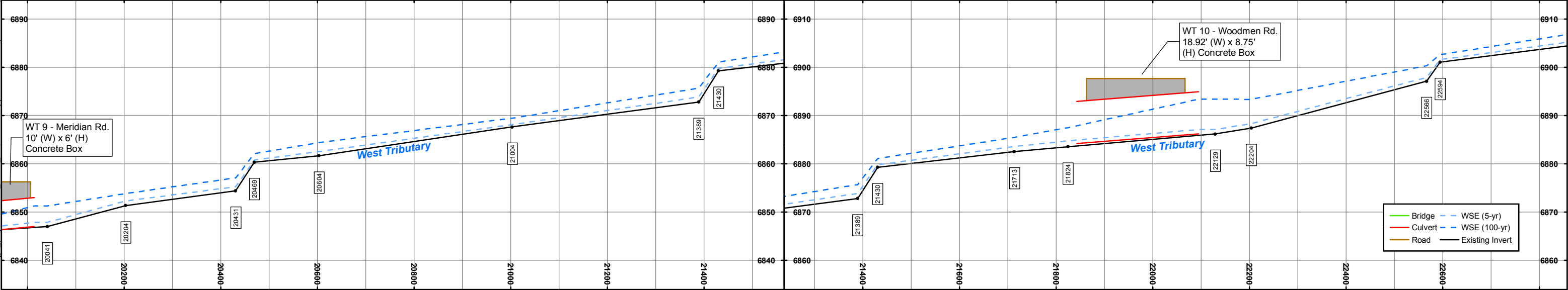
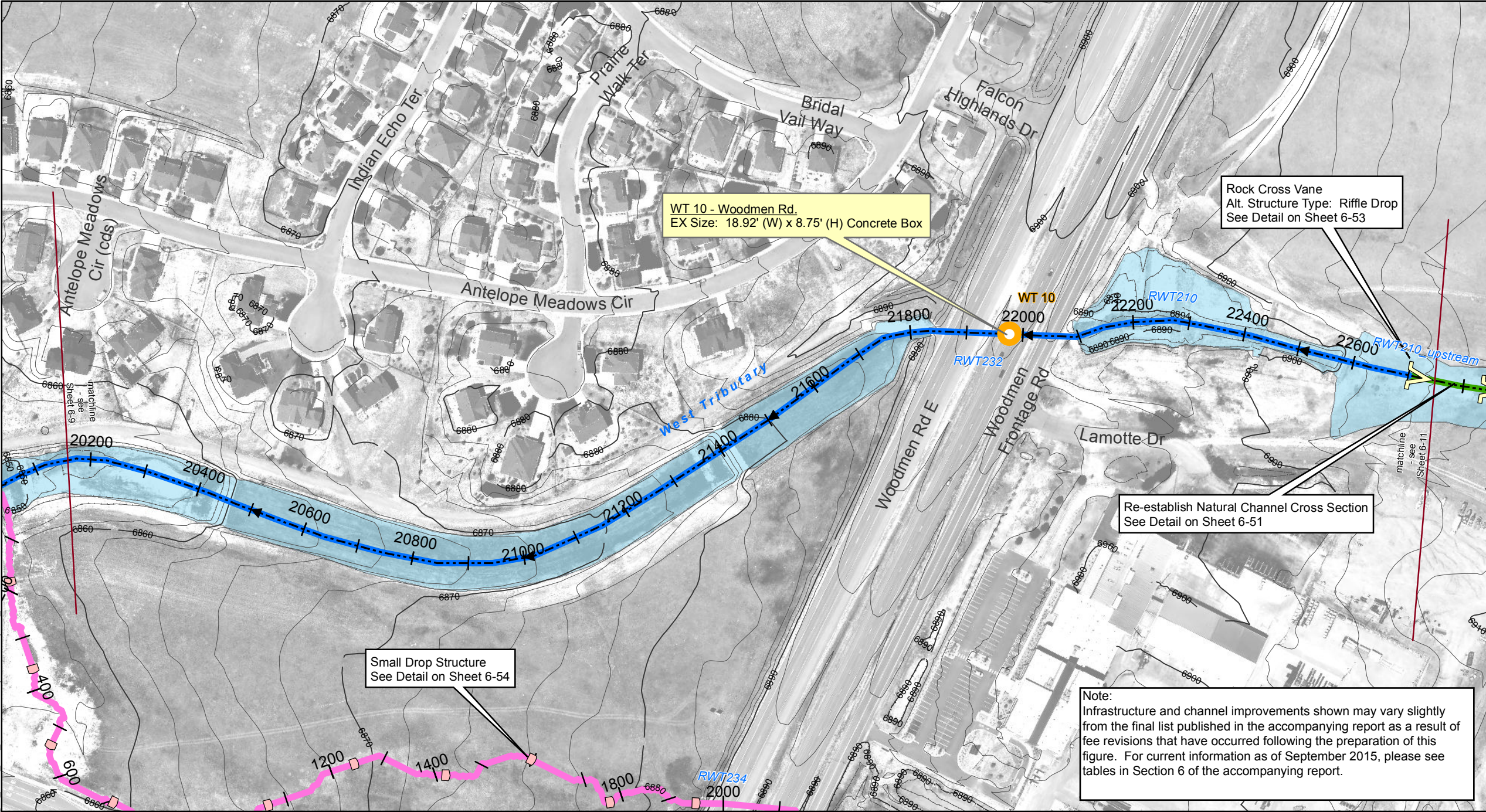
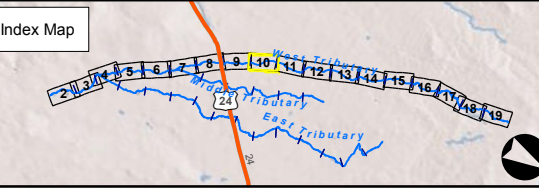
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100

200

Feet

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FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps\20130617\mapbook\sel Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonts

FILE: G:\gis\projects\Falcon Creek DBPS\active\apps20130617\mapbooks\Set Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonts

Sheet 6-11
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer

Inlet

Manhole

Pipe

Reach Improvements

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition

0

100

200

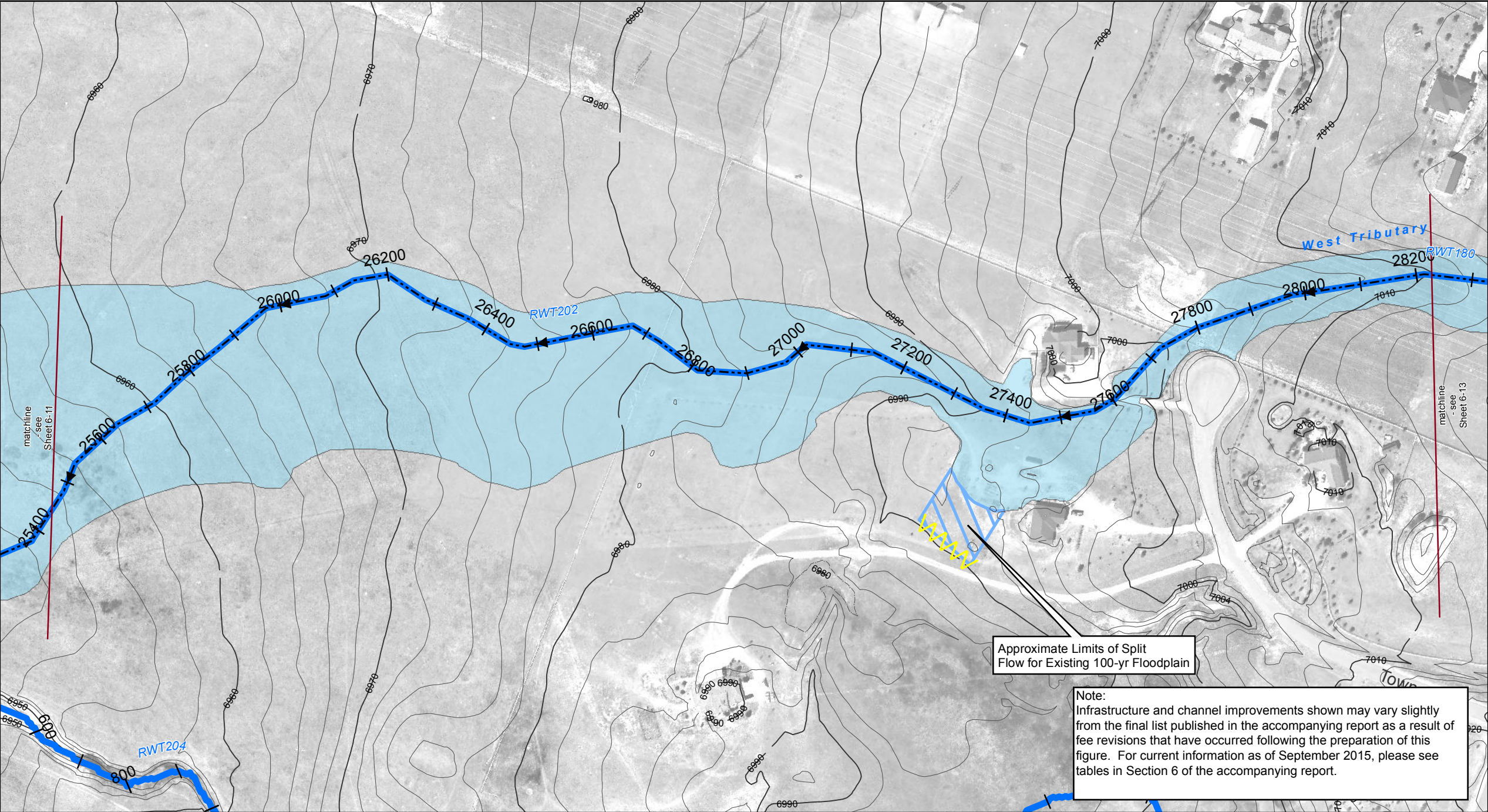
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Index Map

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FILE: G:\gis_projects\Falcon Creek DBPS\active\apps20130617\mapbooks\Sel Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonts



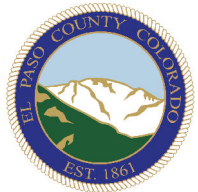
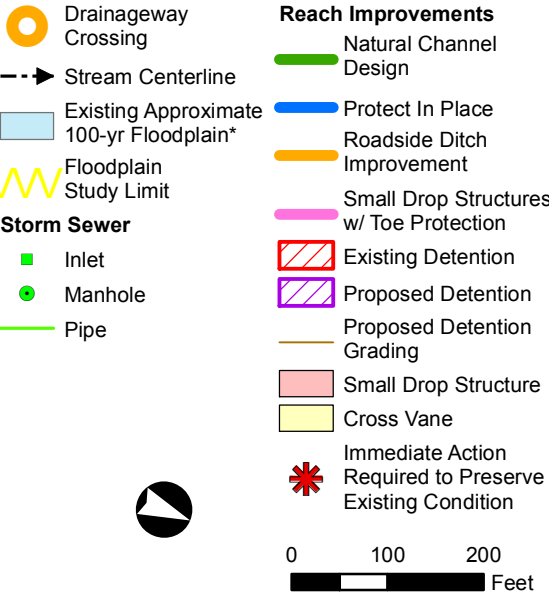
Sheet 6-12

Falcon DBPS

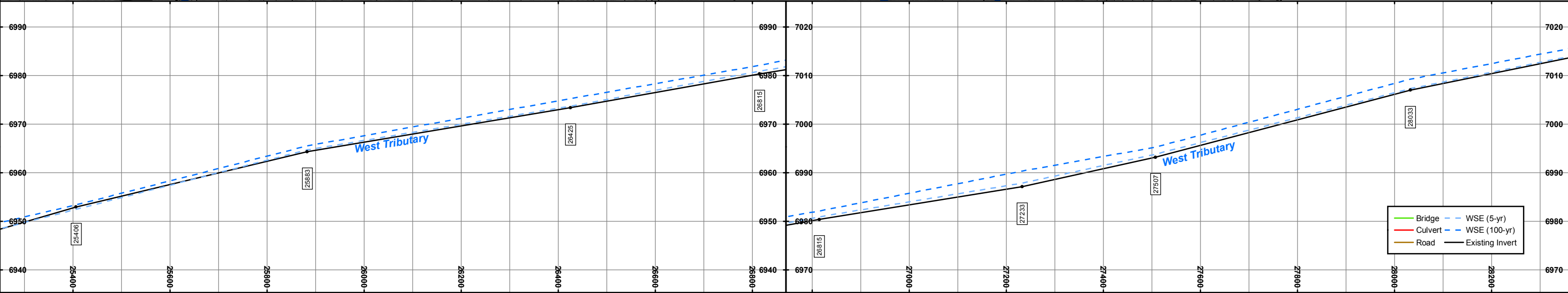
Conceptual Plan

West Tributary

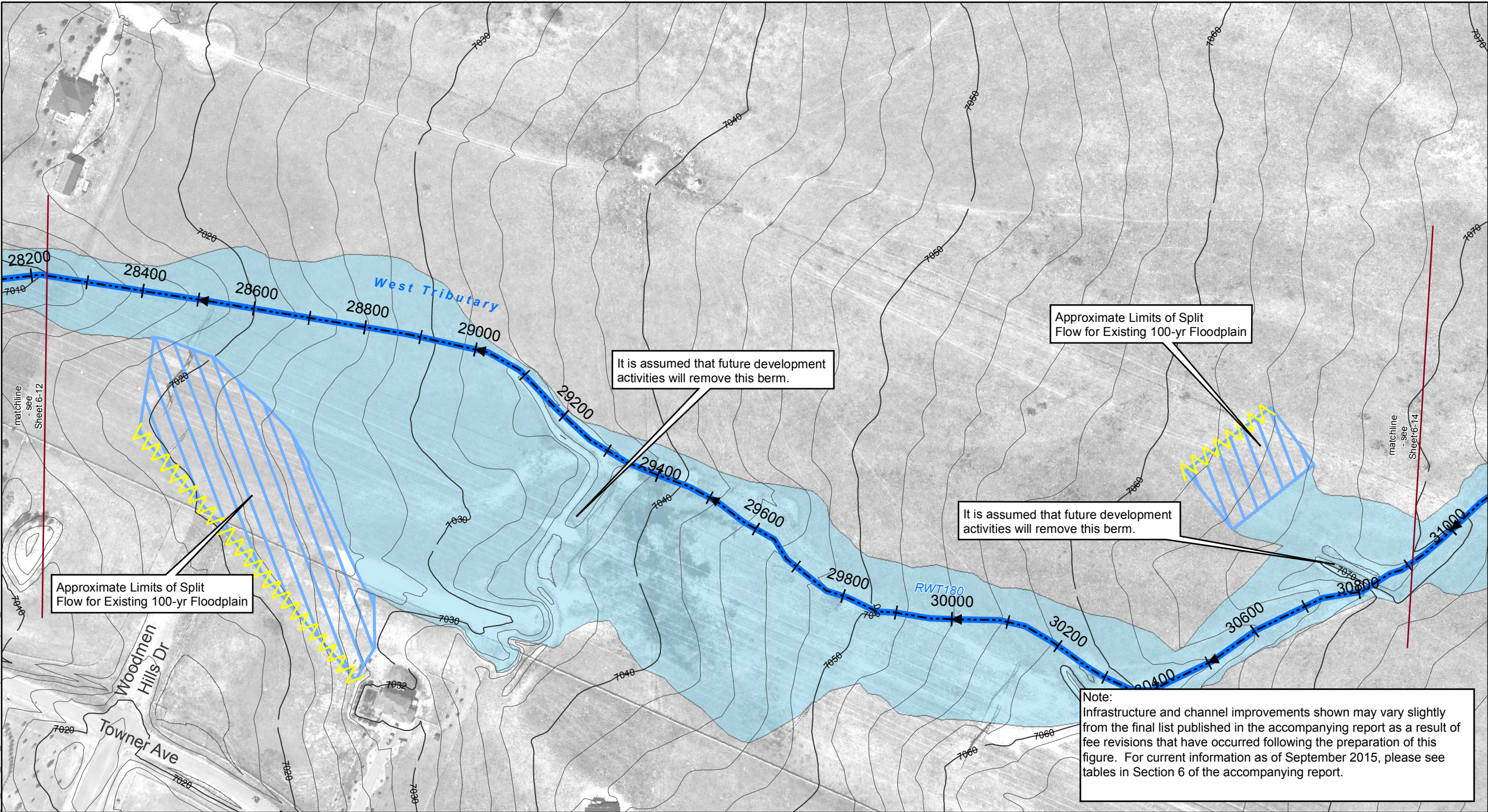
El Paso County, CO



Matrix
DESIGN GROUP



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Sheet 6-13

Falcon DBPS

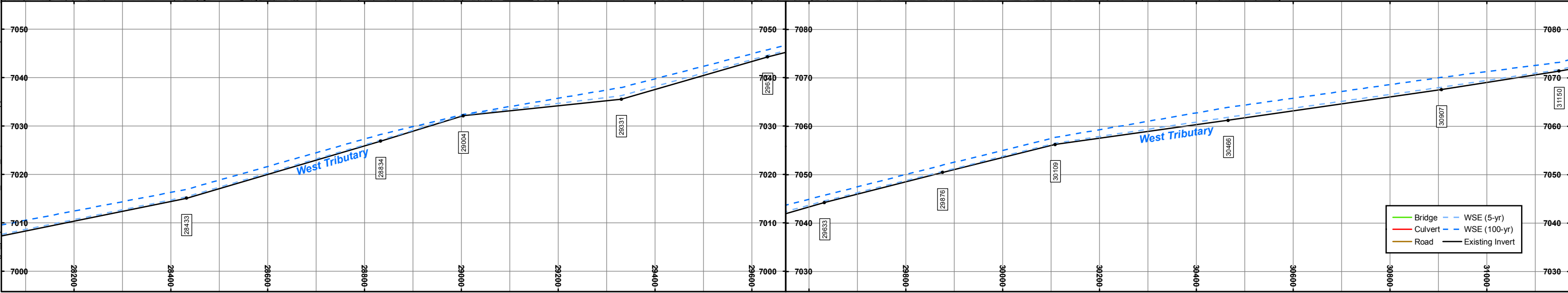
Conceptual Plan

West Tributary

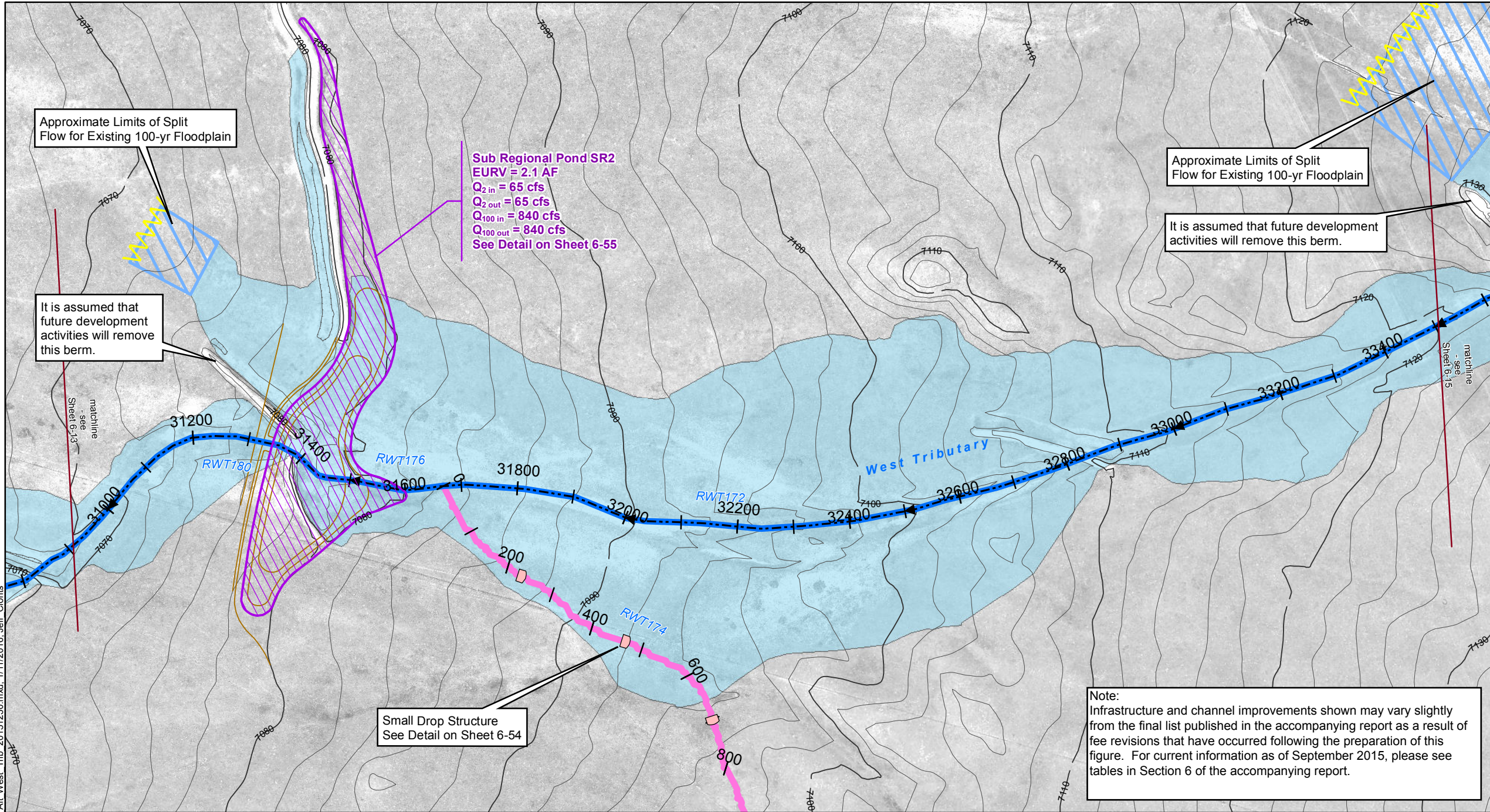
El Paso County, CO

- Drainageway Crossing
 - Stream Centerline
 - Existing Approximate 100-yr Floodplain*
 - Floodplain Study Limit
 - Storm Sewer**
 - Inlet
 - Manhole
 - Pipe
 - Reach Improvements**
 - Natural Channel Design
 - Protect In Place
 - Roadside Ditch Improvement
 - Small Drop Structures w/ Toe Protection
 - Existing Detention
 - Proposed Detention
 - Proposed Detention Grading
 - Small Drop Structure
 - Cross Vane
 - Immediate Action Required to Preserve Existing Condition
- 0 100 200 Feet

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FILE: G:\gis\projects\Falcon Creek DBPS\active\apps\20130617\mapbooks\Sel Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonts



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Sheet 6-14

Falcon DBPS

Conceptual Plan

West Tributary

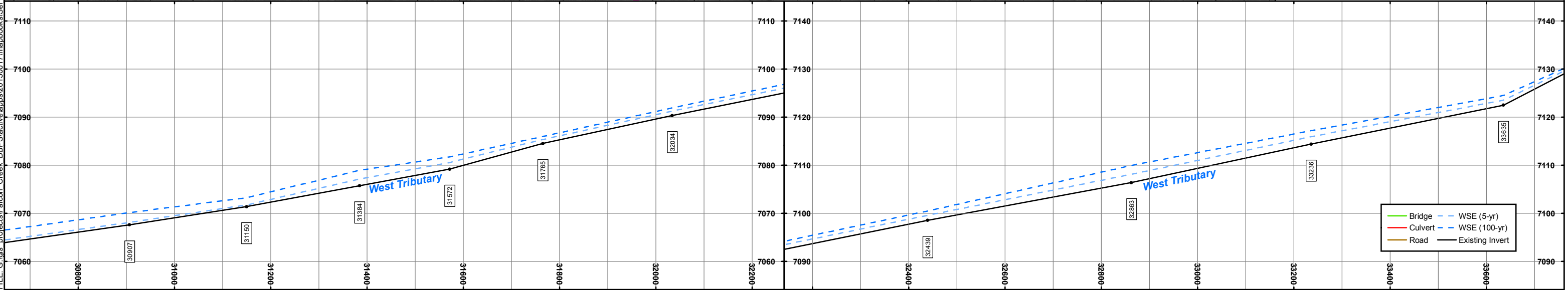
El Paso County, CO

- Drainageway Crossing
 - Stream Centerline
 - Existing Approximate 100-yr Floodplain*
 - Floodplain Study Limit
 - Storm Sewer
 - Inlet
 - Manhole
 - Pipe
 - Reach Improvements
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 - Roadside Ditch Improvement
 - Small Drop Structures w/ Toe Protection
 - Existing Detention
 - Proposed Detention
 - Proposed Detention Grading
 - Small Drop Structure
 - Cross Vane
 - Immediate Action Required to Preserve Existing Condition
- 0 100 200 Feet

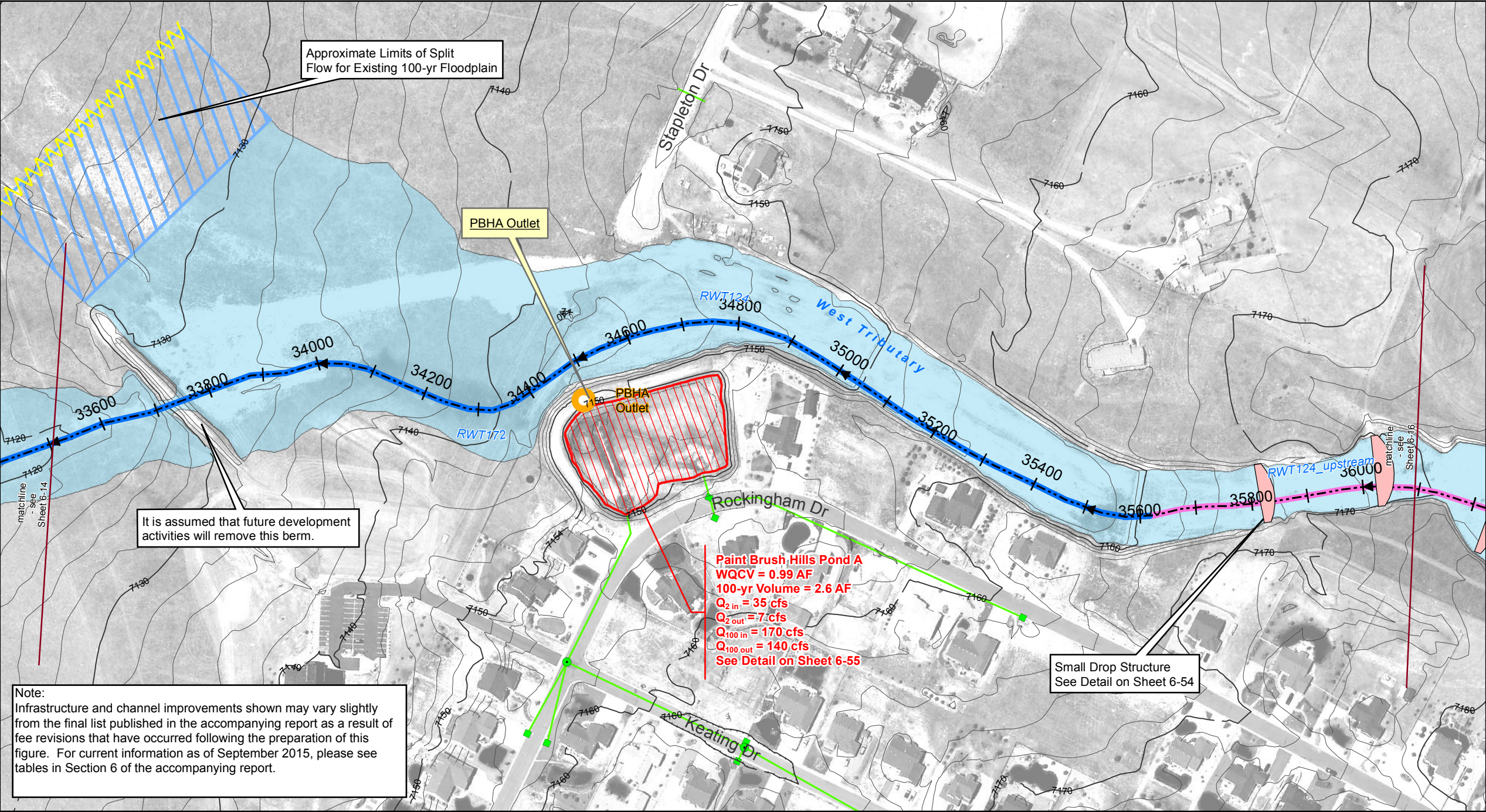
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Matrix
DESIGN GROUP



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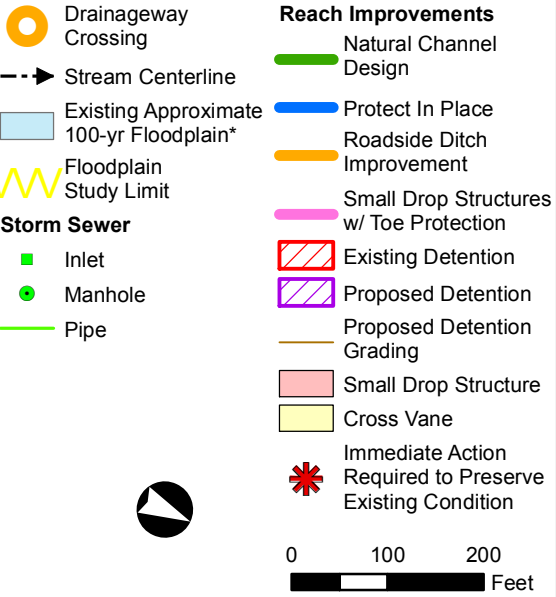
Sheet 6-15

Falcon DBPS

Conceptual Plan

West Tributary

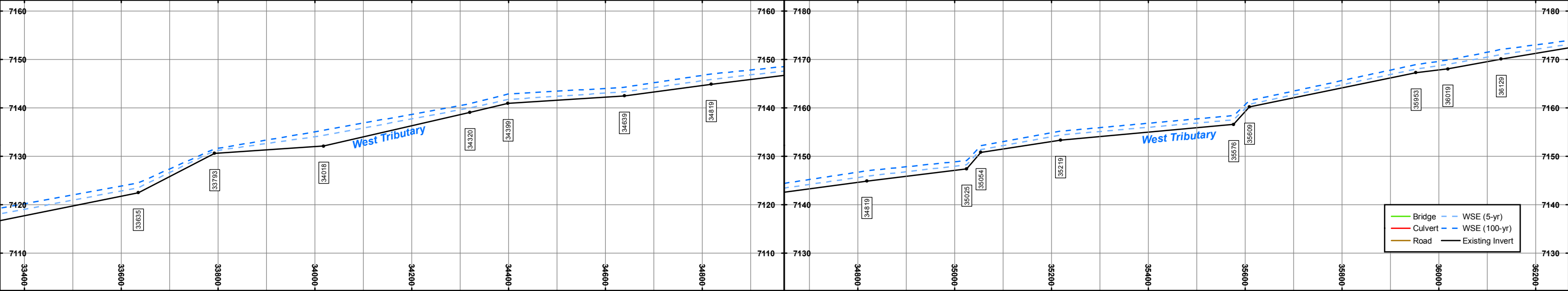
El Paso County, CO



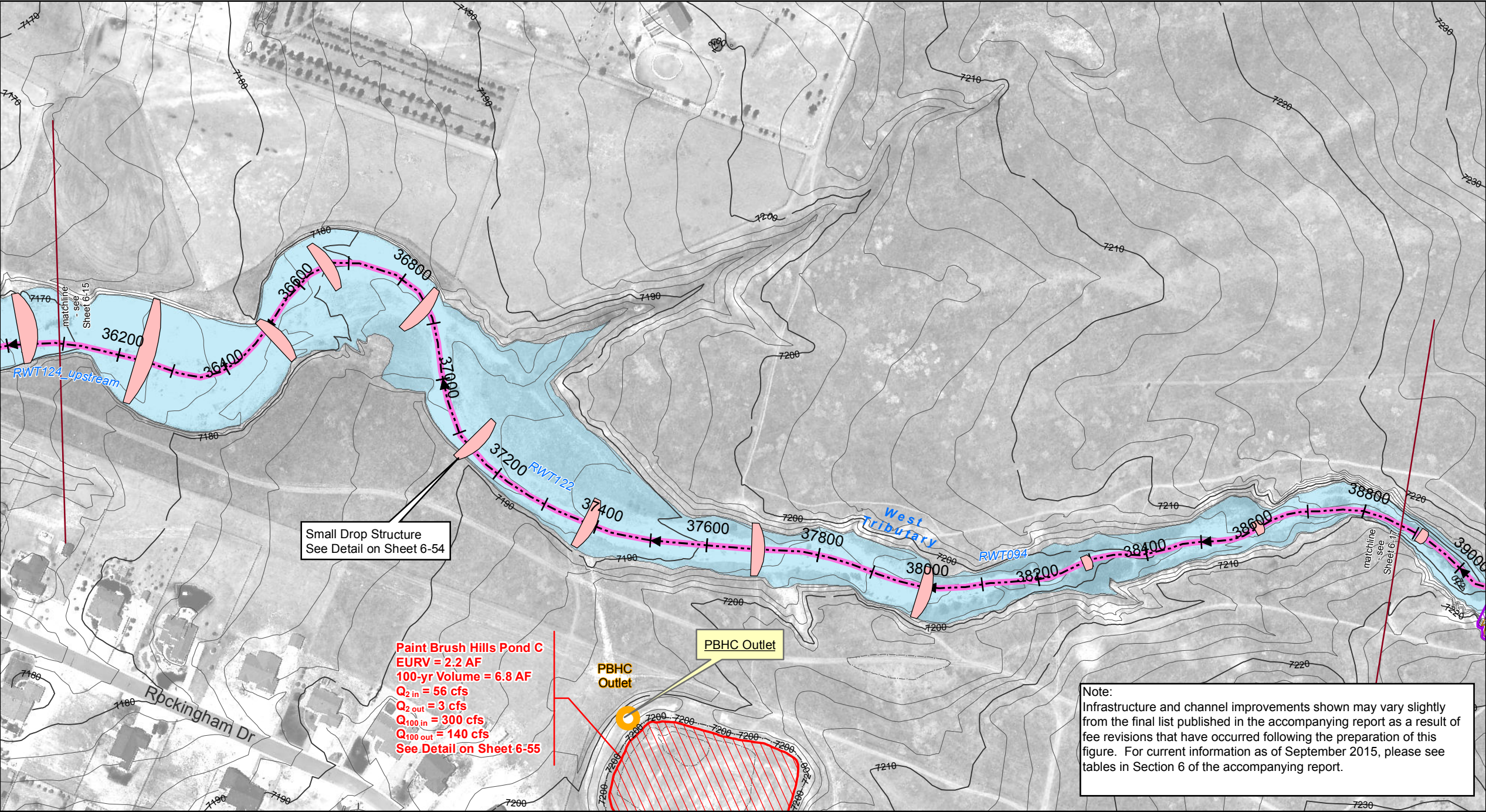
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Matrix
DESIGN GROUP



FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps\20130617\mapbooks\Sel Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonis



Sheet 6-16

Falcon DBPS

Conceptual Plan

West Tributary

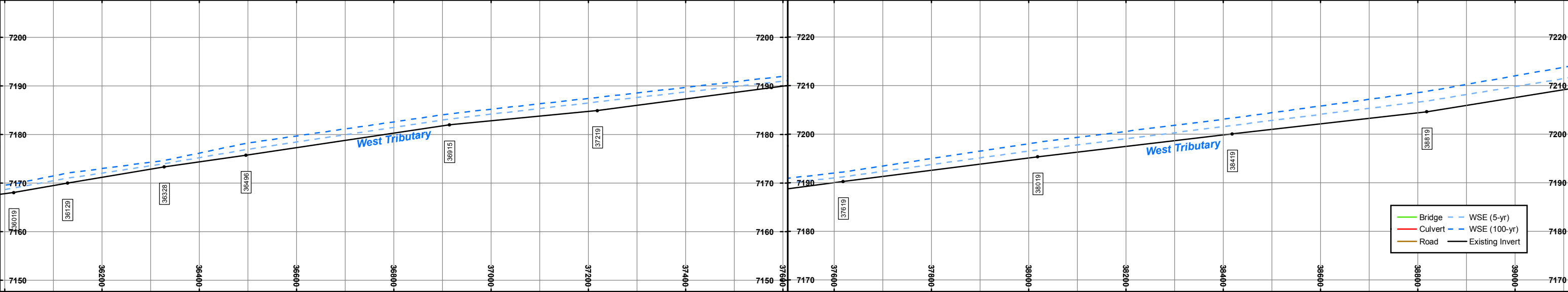
El Paso County, CO

- Drainageway Crossing
 - Stream Centerline
 - Existing Approximate 100-yr Floodplain*
 - Floodplain Study Limit
 - Storm Sewer
 - Inlet
 - Manhole
 - Pipe
 - Reach Improvements
 - Natural Channel Design
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 - Roadside Ditch Improvement
 - Small Drop Structures w/ Toe Protection
 - Existing Detention
 - Proposed Detention
 - Proposed Detention Grading
 - Small Drop Structure
 - Cross Vane
 - Immediate Action Required to Preserve Existing Condition
- 0 100 200 Feet

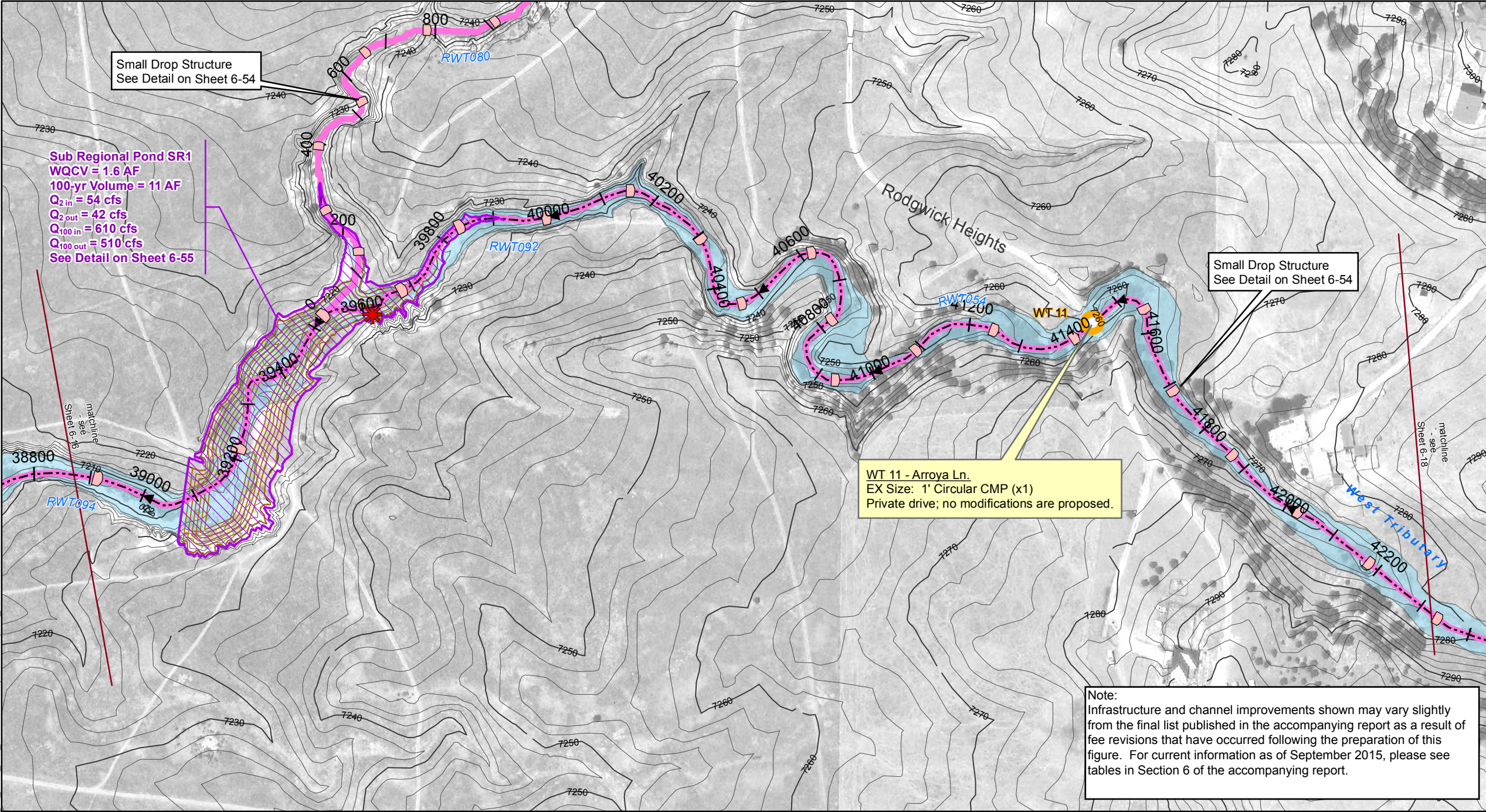
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FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps\20130617\mapbooks\Sel Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonts



Sheet 6-17

Falcon DBPS

Conceptual Plan

West Tributary

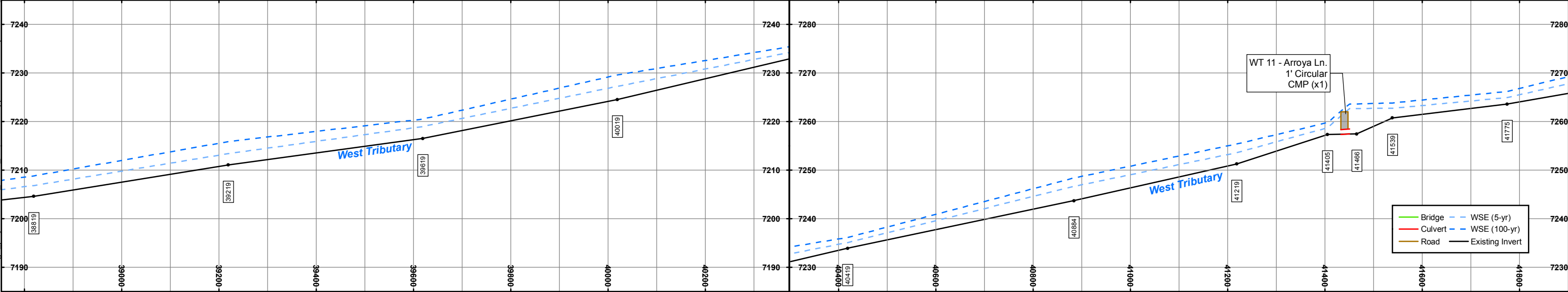
El Paso County, CO

- Drainageway Crossing
 - Stream Centerline
 - Existing Approximate 100-yr Floodplain*
 - Floodplain Study Limit
 - Storm Sewer
 - Inlet
 - Manhole
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 - Existing Detention
 - Proposed Detention
 - Proposed Detention Grading
 - Small Drop Structure
 - Cross Vane
 - Immediate Action Required to Preserve Existing Condition
- 0 100 200 Feet

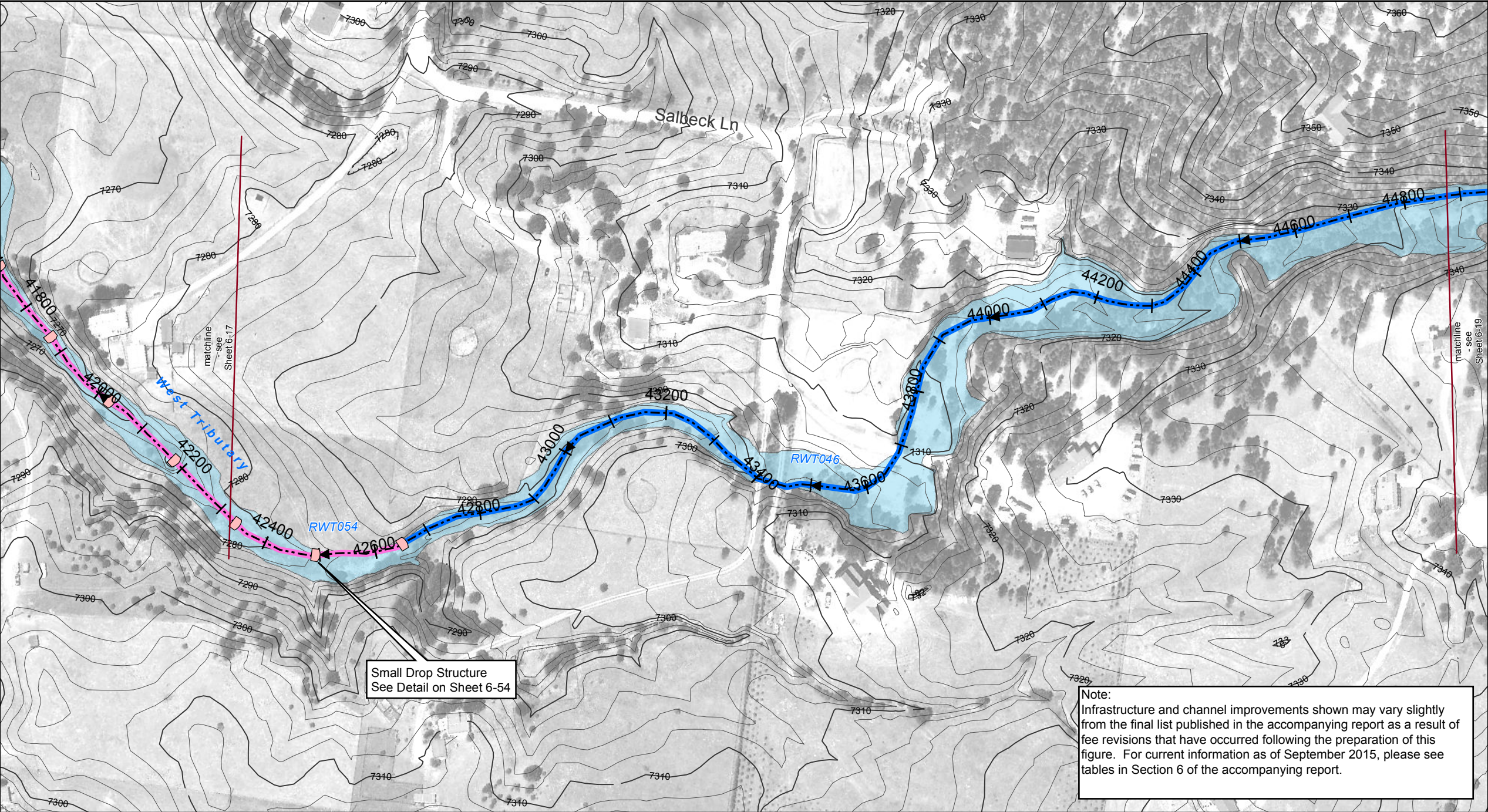
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FILE: G:\gis_projects\Falcon Creek DBPS\active\apps20130617\mapbooks\Sel Alt West Trib. 20151230.mxd, 1/11/2016, Jeff Clonts



Small Drop Structure
See Detail on Sheet 6-54

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Sheet 6-18
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Inlet

Manhole

Pipe

Reach Improvements

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

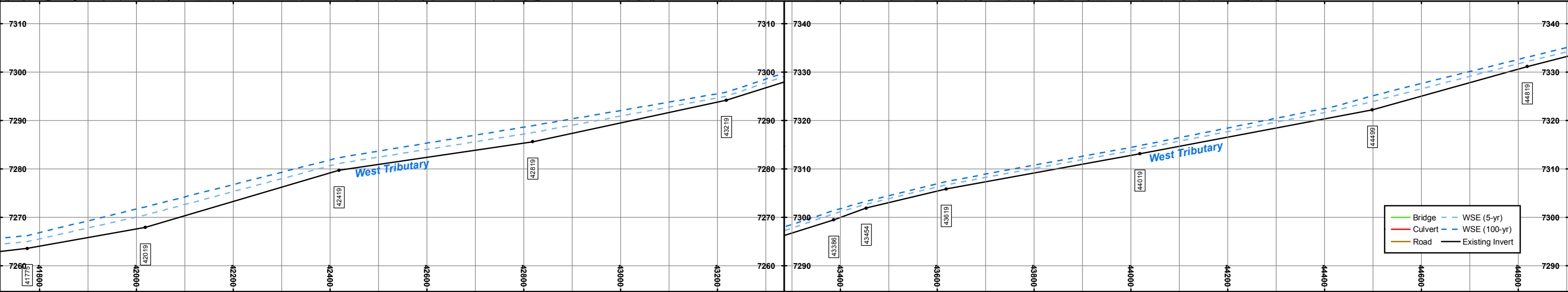
Cross Vane

Immediate Action Required to Preserve Existing Condition

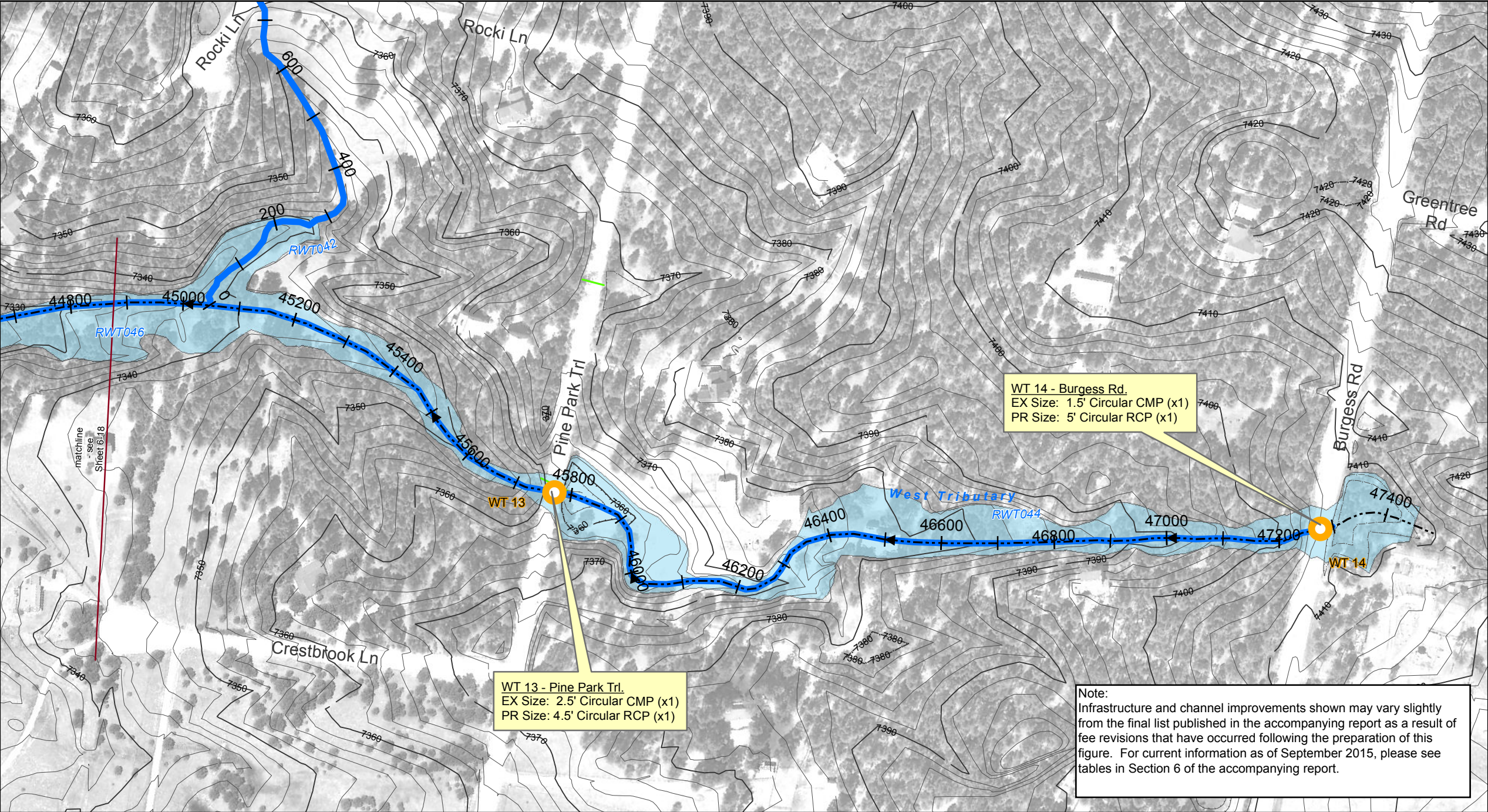
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Feet

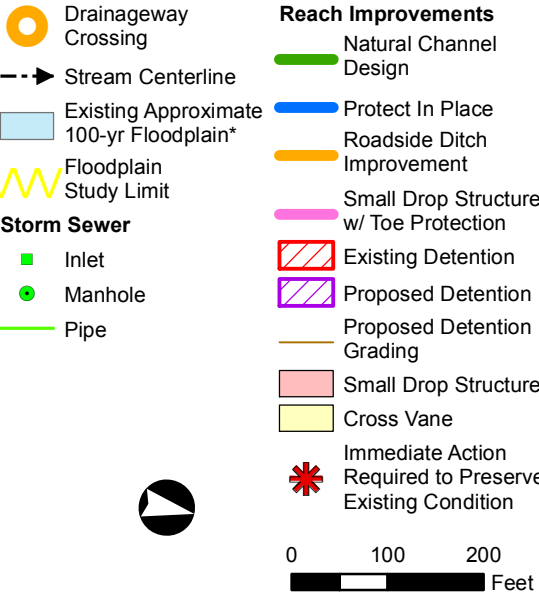
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FILE: G:\gis\projects\Falcon Creek DBPS\active\apps\20130617\mapbooks\Sel Alt West Trib 20151230.mxd, 1/11/2016, Jeff Clonts



Sheet 6-19
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

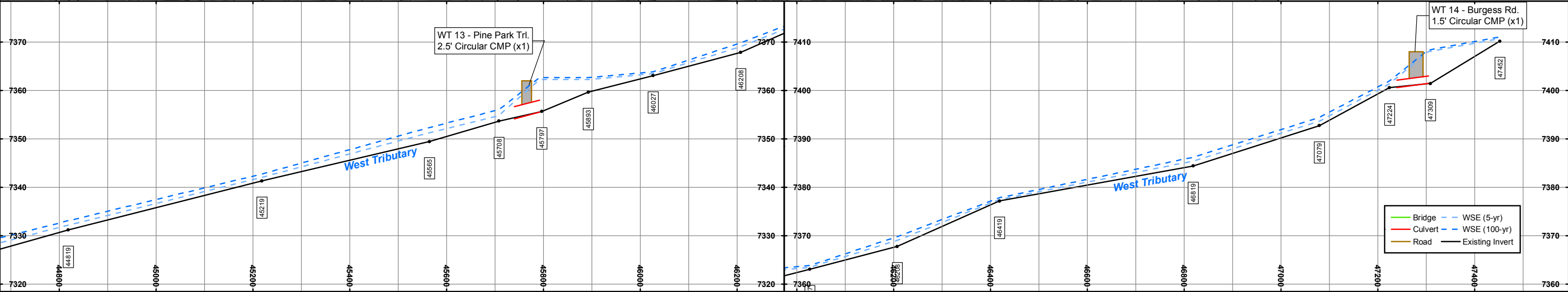


* These approximate 100-yr floodplain boundaries are for planning purposes only. This information is not intended to replace the information provided on the FEMA Flood Insurance Rate Maps for this area.
** These are conceptual design drawings and are subject to change. These drawings are not intended for construction purposes.

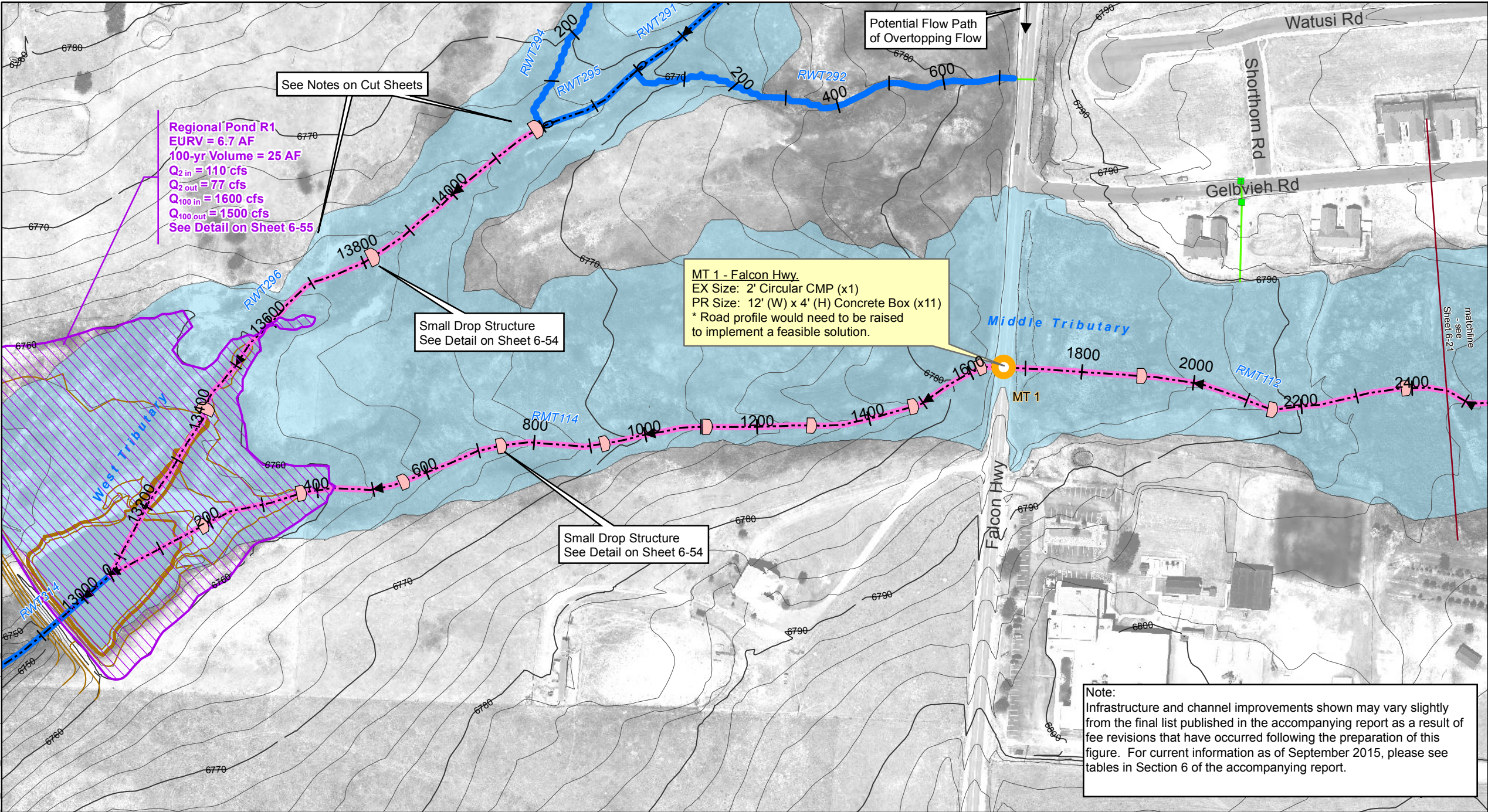


Matrix
DESIGN GROUP

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FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps20130617\mapbooks\Set Alt Middle Trib.mxd, 1/11/2016, Jeff Clonts



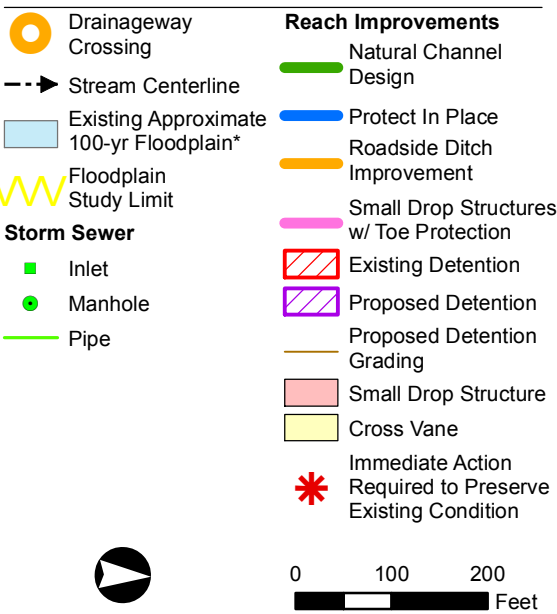
Sheet 6-20

Falcon DBPS

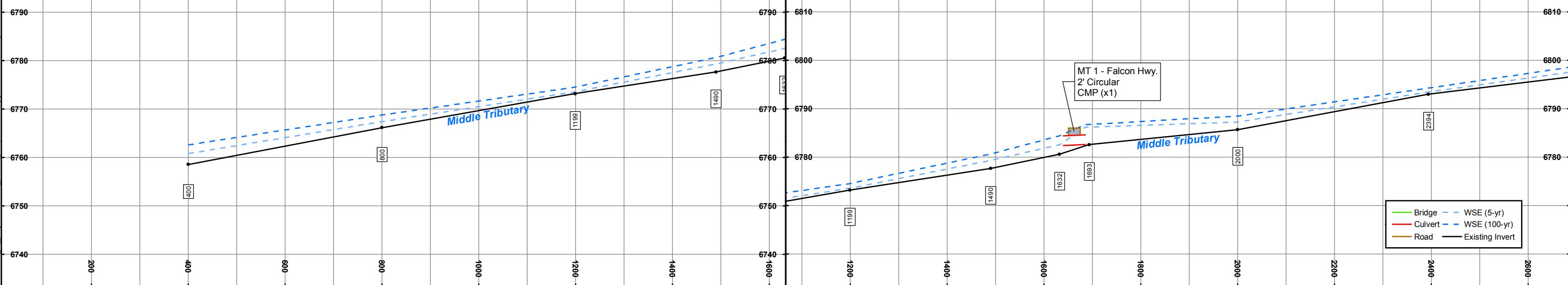
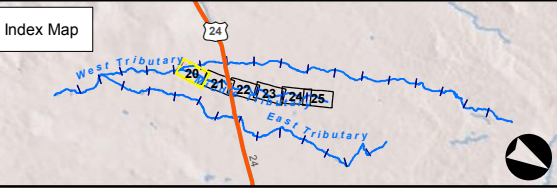
Conceptual Plan

Middle Tributary

El Paso County, CO



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Sheet 6-21
Falcon DBPS
Conceptual Plan
Middle Tributary
El Paso County, CO

- Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer Inlet

Storm Sewer Manhole

Storm Sewer Pipe
- Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

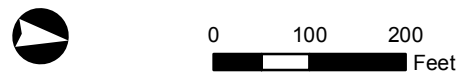
Proposed Detention

Proposed Detention Grading

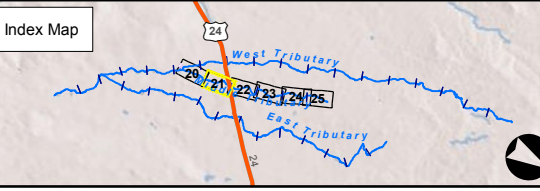
Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition



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MT 2 - Swingline Rd.
EX Size: 20' (W) x 6.8' (H) Concrete Box
PR Size: 12' (W) x 8' (W) Concrete Box (x3)
Structure size shall be re-evaluated after Regional Pond MN is re-designed.

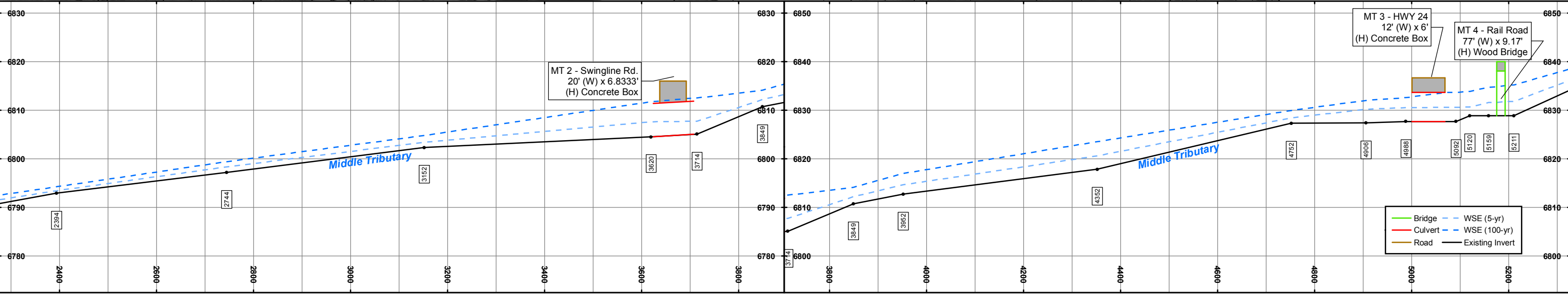
Potential Flow Path of Split Flow

MT 3 - Hwy. 24
EX Size: 12' (W) x 6' (H) Concrete Box (x2)

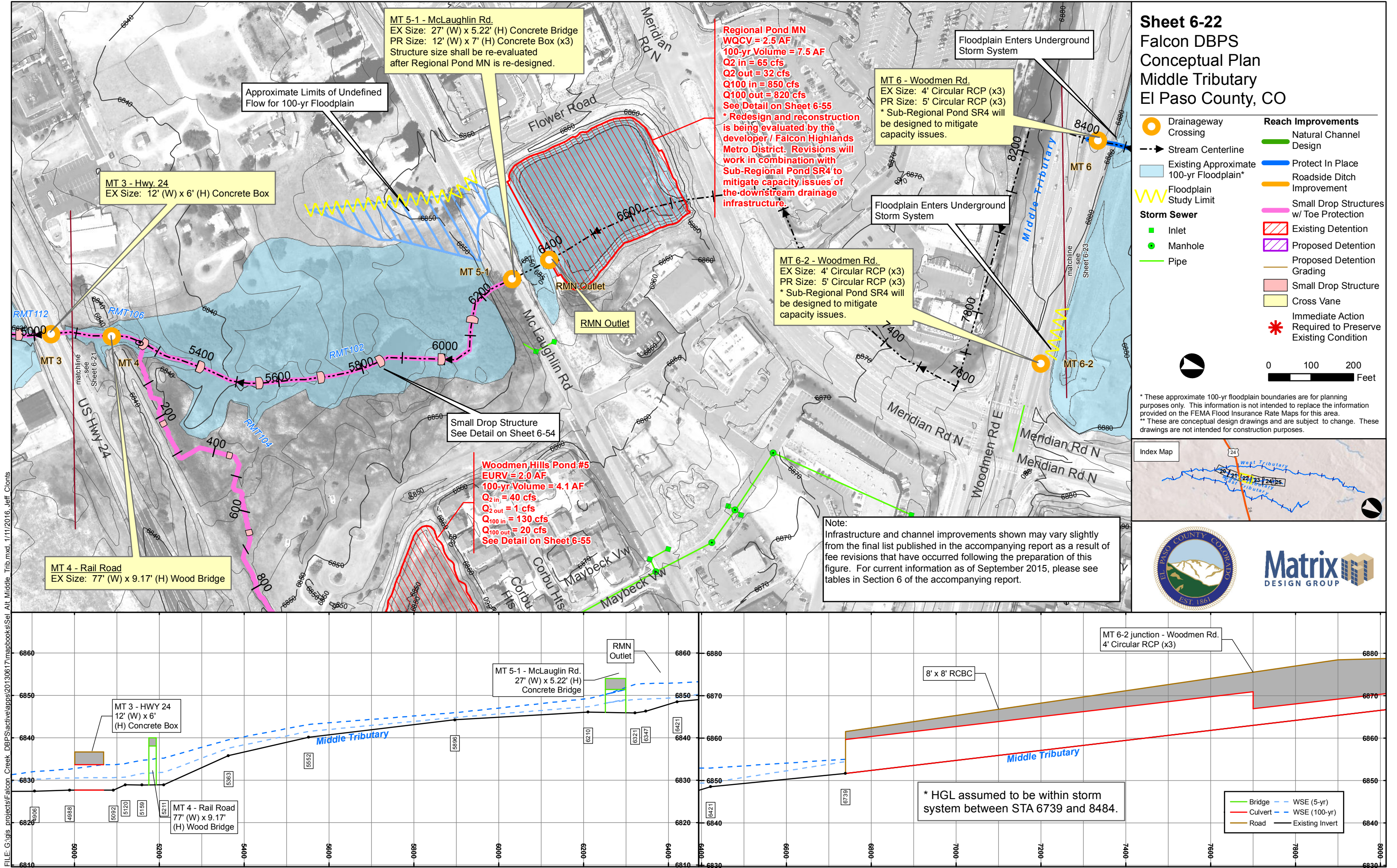
MT 4 - Rail Road
EX Size: 77' (W) x 9.17' (H) Wood Bridge

Small Drop Structure
See Detail on Sheet 6-54

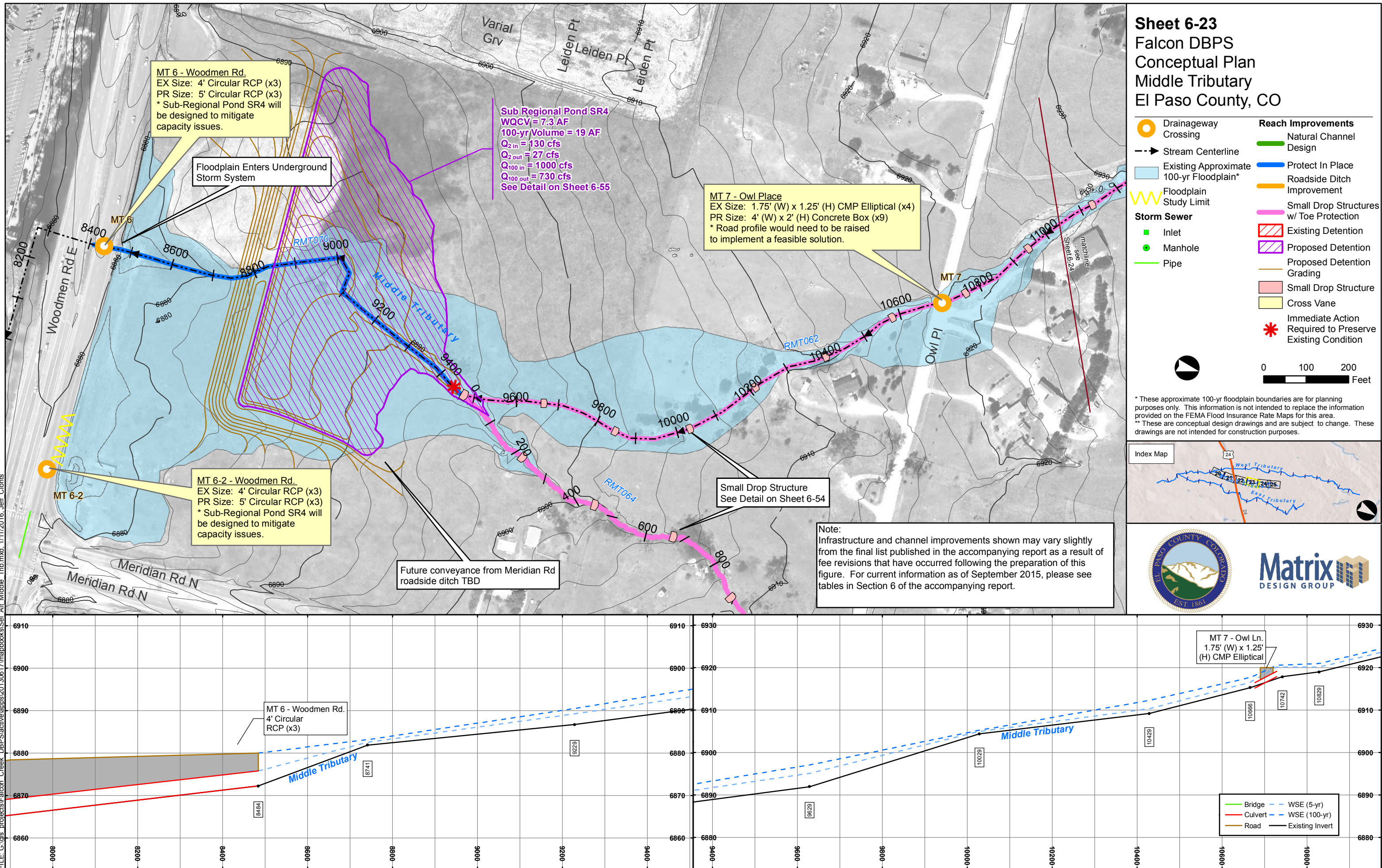
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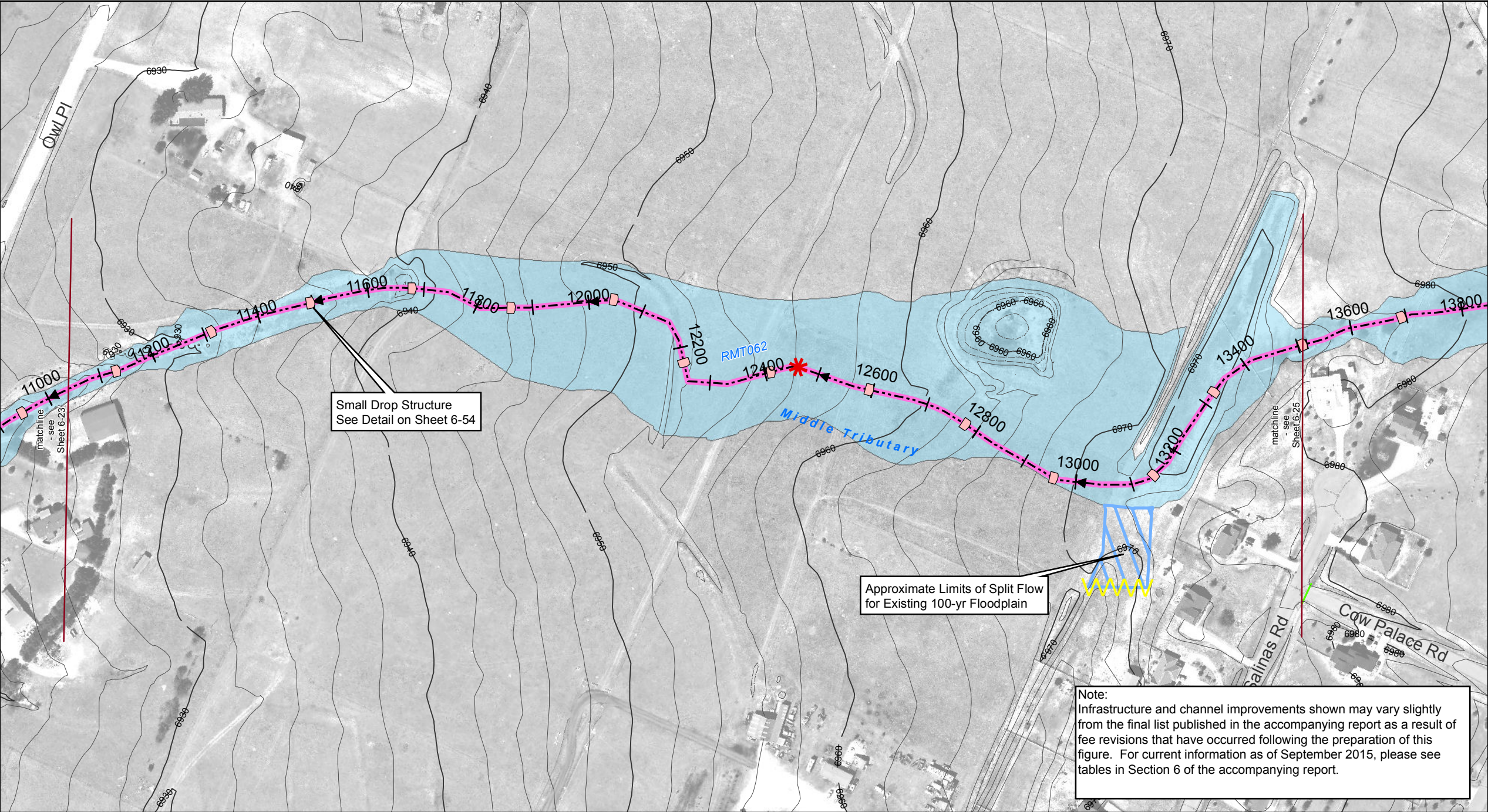
FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps20130617\mapbooks\Set Alt Middle Trib.mxd, 1/11/2016, Jeff Clonts



FILE: G:\gis\projects\Falcon Creek DBPS\active\apps20130617\mapbooks\Set Alt Middle Trib.mxd, 1/11/2016, Jeff Clonts



FILE: G:\gis projects\Falcon DBPS\active\apps20130617\mapbooks\Alt Middle Trib.mxd 1/11/2016, Jeff Clonts



Sheet 6-24

Falcon DBPS

Conceptual Plan

Middle Tributary

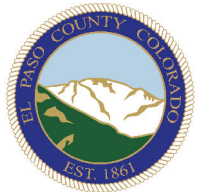
El Paso County, CO

- | | |
|---|--|
| Drainageway Crossing | Reach Improvements |
| Stream Centerline | Natural Channel Design |
| Existing Approximate 100-yr Floodplain* | Protect In Place |
| Floodplain Study Limit | Roadside Ditch Improvement |
| Storm Sewer Inlet | Small Drop Structures w/ Toe Protection |
| Storm Sewer Manhole | Existing Detention |
| Storm Sewer Pipe | Proposed Detention |
| | Proposed Detention Grading |
| | Small Drop Structure |
| | Cross Vane |
| | Immediate Action Required to Preserve Existing Condition |

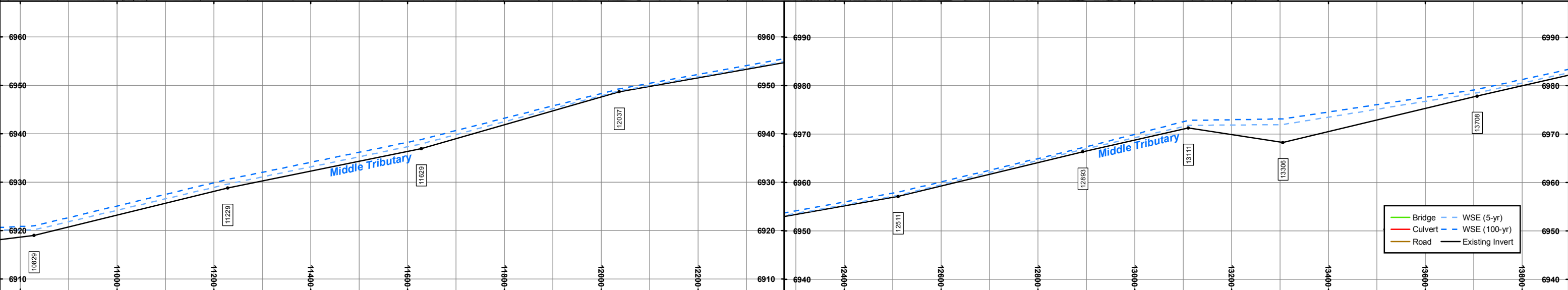


0 100 200 Feet

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Matrix
DESIGN GROUP



Sheet 6-25
Falcon DBPS
Conceptual Plan
Middle Tributary
El Paso County, CO

- Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer Inlet

Storm Sewer Manhole

Storm Sewer Pipe
- Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

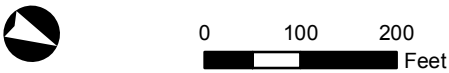
Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition



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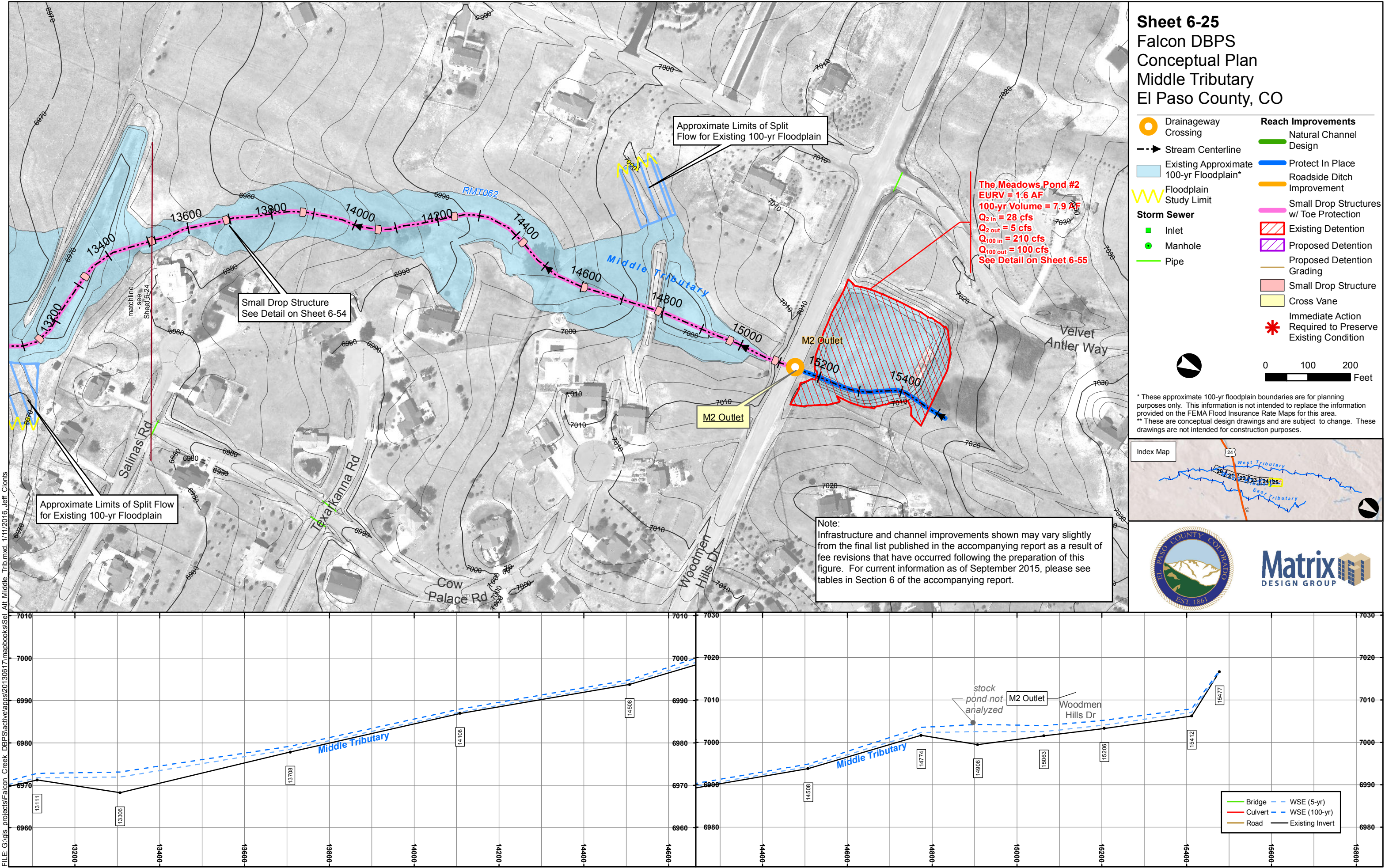
Approximate Limits of Split Flow for Existing 100-yr Floodplain

Small Drop Structure
See Detail on Sheet 6-54

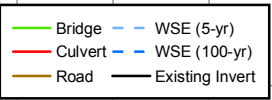
Approximate Limits of Split Flow for Existing 100-yr Floodplain

The Meadows Pond #2
EURV = 1.6 AF
100-yr Volume = 7.9 AF
Q_{2 in} = 28 cfs
Q_{2 out} = 5 cfs
Q_{100 in} = 210 cfs
Q_{100 out} = 100 cfs
See Detail on Sheet 6-55

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Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer

- Inlet
- Manhole
- Pipe

Reach Improvements

- Natural Channel Design
- Protect In Place
- Roadside Ditch Improvement
- Small Drop Structures w/ Toe Protection
- Existing Detention
- Proposed Detention
- Proposed Pond Grading
- Small Drop Structure
- Cross Vane

Immediate Action Required to Preserve Existing Condition

Scale:
 0 100 200 Feet

North Arrow:



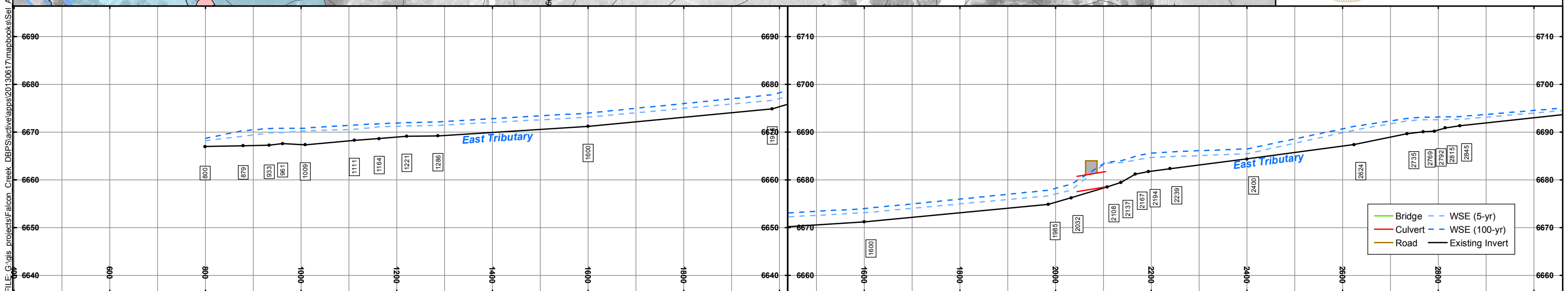
Matrix
DESIGN GROUP

ET 4 - Garrett Rd.
EX Size: 4.67' (W) x 3.17' (H) CMP Arch
PR Size: 8' (W) x 5' (H) Concrete Box (x2)
Triggered by future development

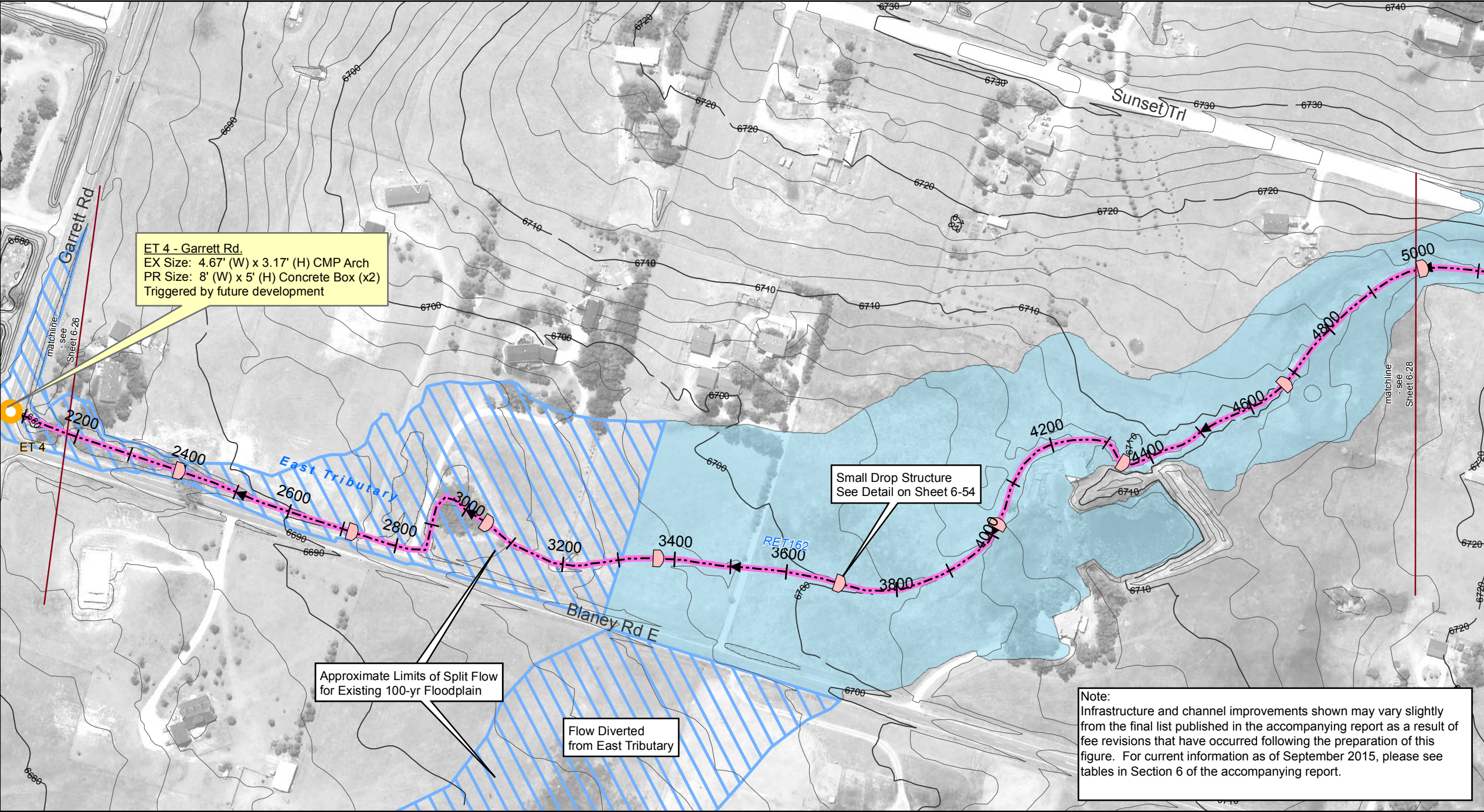
Approximate Limits of Split Flow for Existing 100-yr Floodplain

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Small Drop Structure
See Detail on Sheet 6-54



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Sheet 6-27
Falcon DBPS
Conceptual Plan
East Tributary
El Paso County, CO

- | | |
|---|--|
| Drainageway Crossing | Reach Improvements |
| Stream Centerline | Natural Channel Design |
| Existing Approximate 100-yr Floodplain* | Protect In Place |
| Floodplain Study Limit | Roadside Ditch Improvement |
| Storm Sewer | Small Drop Structures w/ Toe Protection |
| Inlet | Existing Detention |
| Manhole | Proposed Detention |
| Pipe | Proposed Pond Grading |
| | Small Drop Structure |
| | Cross Vane |
| | Immediate Action Required to Preserve Existing Condition |



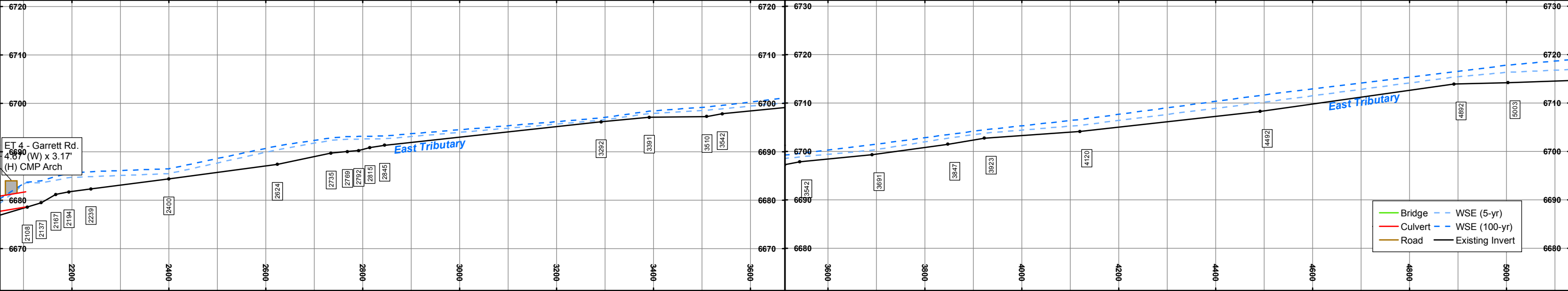
0 100 200 Feet

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Matrix
DESIGN GROUP

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Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer

- Inlet
- Manhole
- Pipe

Reach Improvements

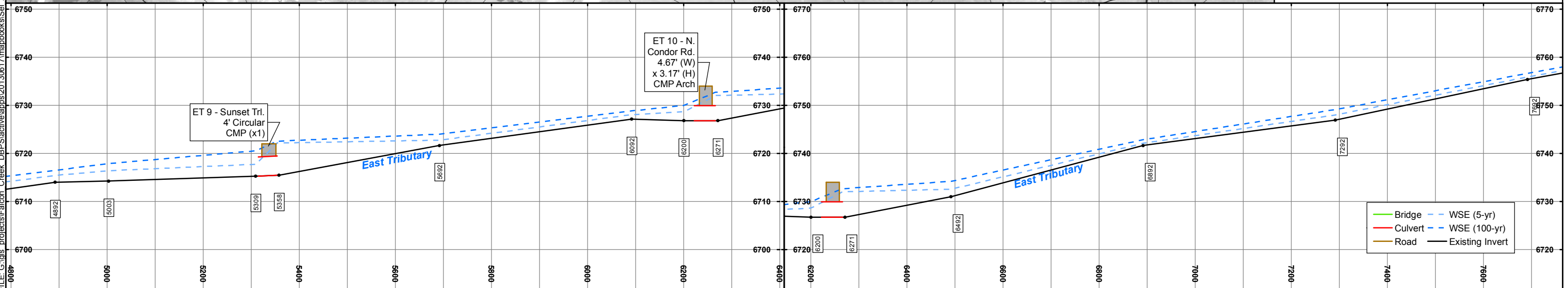
- Natural Channel Design
- Protect In Place
- Roadside Ditch Improvement
- Small Drop Structures w/ Toe Protection
- Existing Detention
- Proposed Detention
- Proposed Pond Grading
- Small Drop Structure
- Cross Vane
- Immediate Action Required to Preserve Existing Condition

Scale:
 0 100 200 Feet

North Arrow:



ET 10 - N.
Condor Rd.
4.67' (W)
x 3.17' (H)
CMP Arch



Sheet 6-29
Falcon DBPS
Conceptual Plan
East Tributary
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Inlet

Manhole

Pipe

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Pond Grading

Small Drop Structure

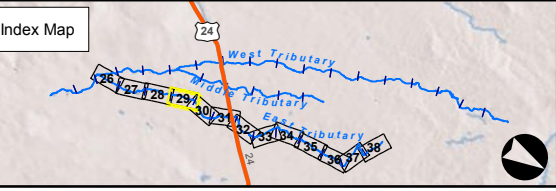
Cross Vane

Immediate Action Required to Preserve Existing Condition

0100200

Feet

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ET 11 - Falcon Hwy.
EX Size: 5' Circular RCP (x2)
PR Size: 8' (W) x 6' (H) Concrete Box (x5)
* Road profile may need to be raised to implement a feasible solution.

Re-establish Natural Channel Cross Section
See Detail on Sheet 6-51

Rock Cross Vane
Alt. Structure Type: Riffle Drop
See Detail on Sheet 6-53

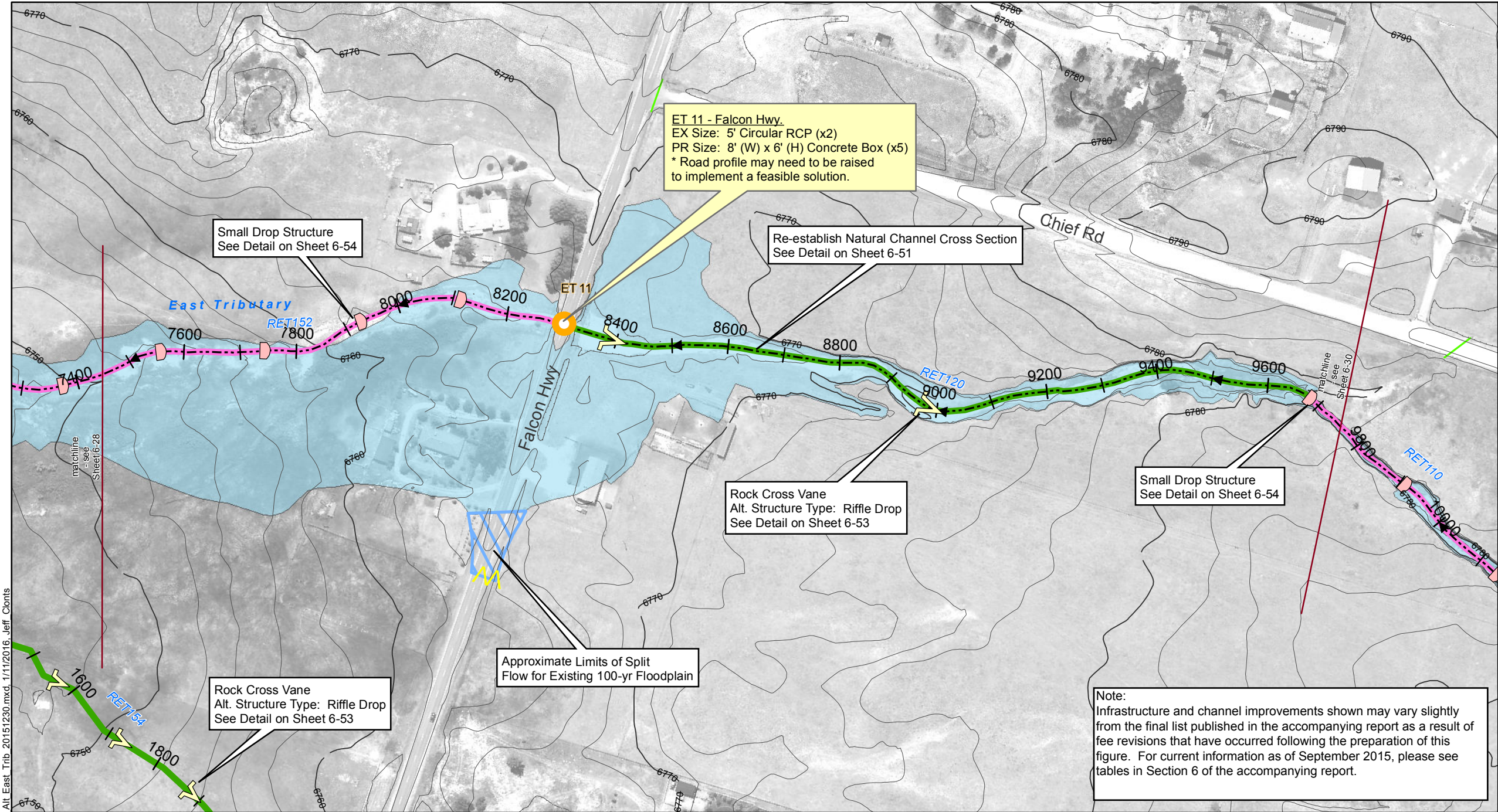
Small Drop Structure
See Detail on Sheet 6-54

Small Drop Structure
See Detail on Sheet 6-54

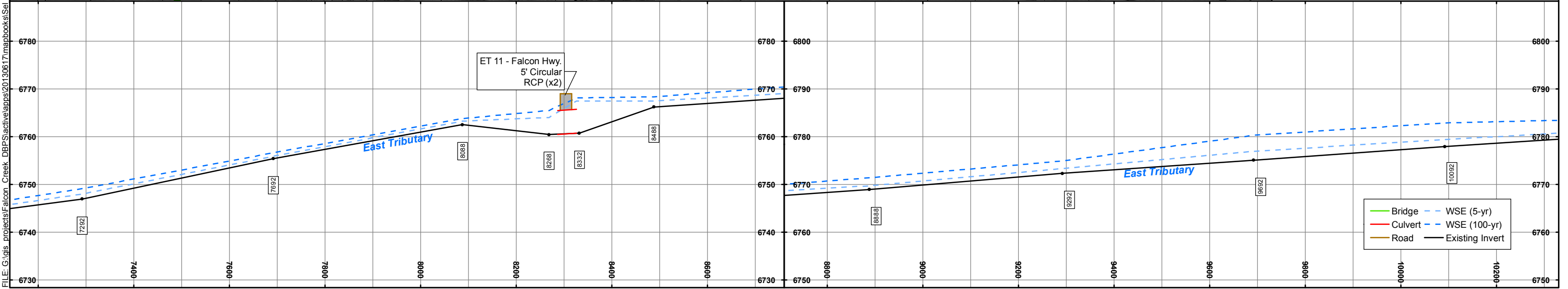
Rock Cross Vane
Alt. Structure Type: Riffle Drop
See Detail on Sheet 6-53

Approximate Limits of Split Flow for Existing 100-yr Floodplain

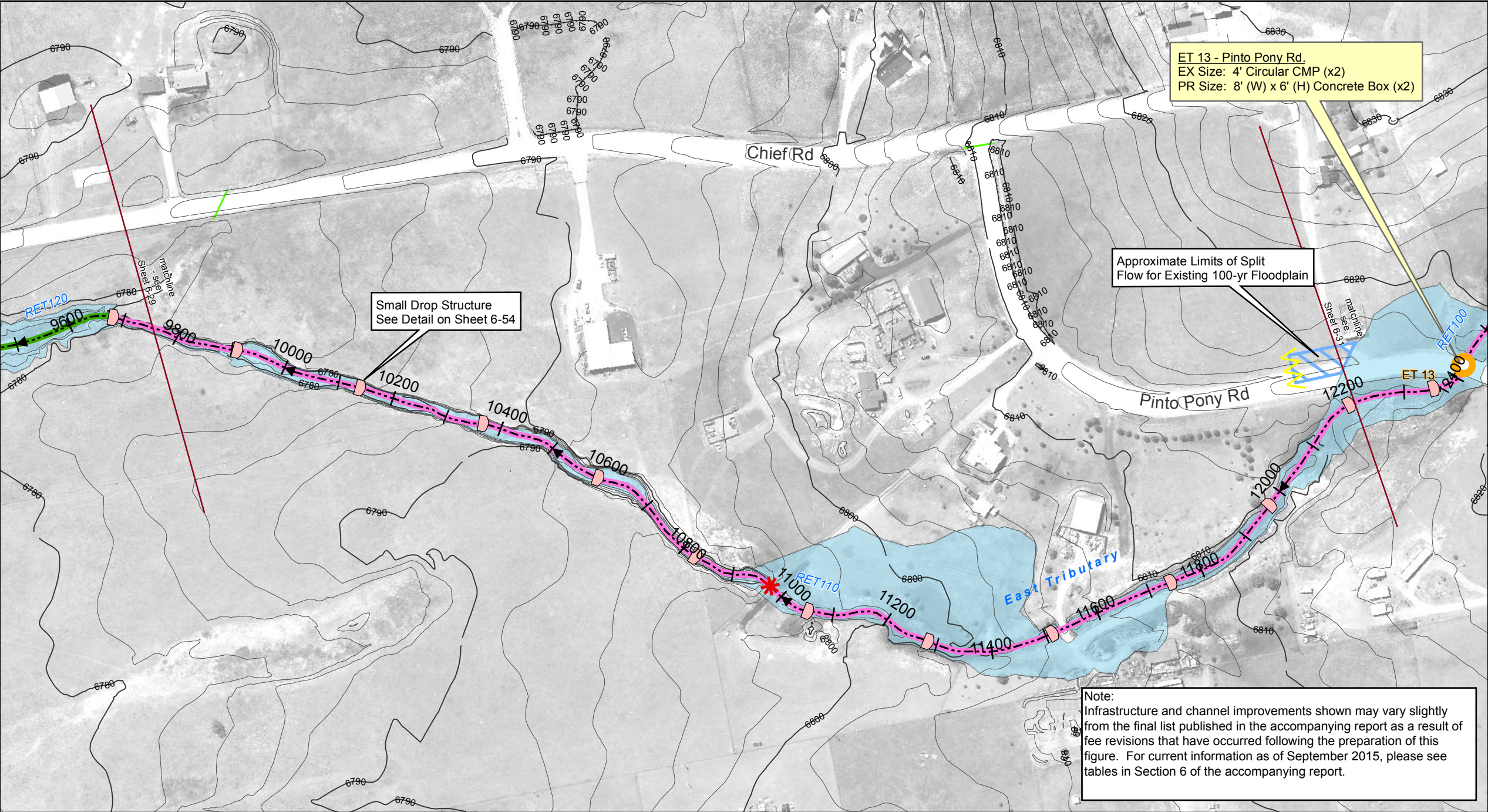
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FILE: G:\gis\projects\Falcon_Creek_DBPS\active\apps\20130617\mapbooks\Sel Alt East Trib 20151230.mxd, 1/11/2016, Jeff Clonts



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Sheet 6-30

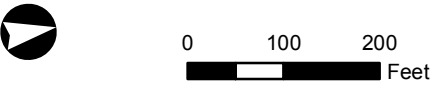
Falcon DBPS

Conceptual Plan

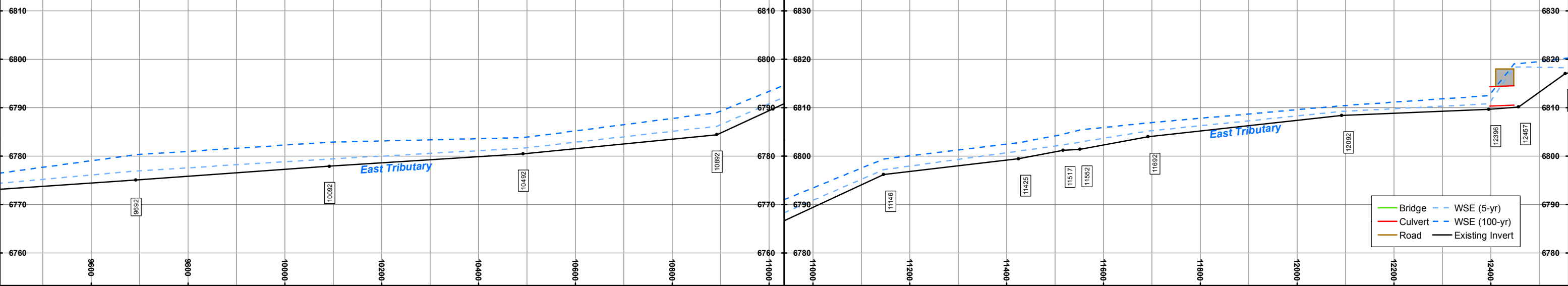
East Tributary

El Paso County, CO

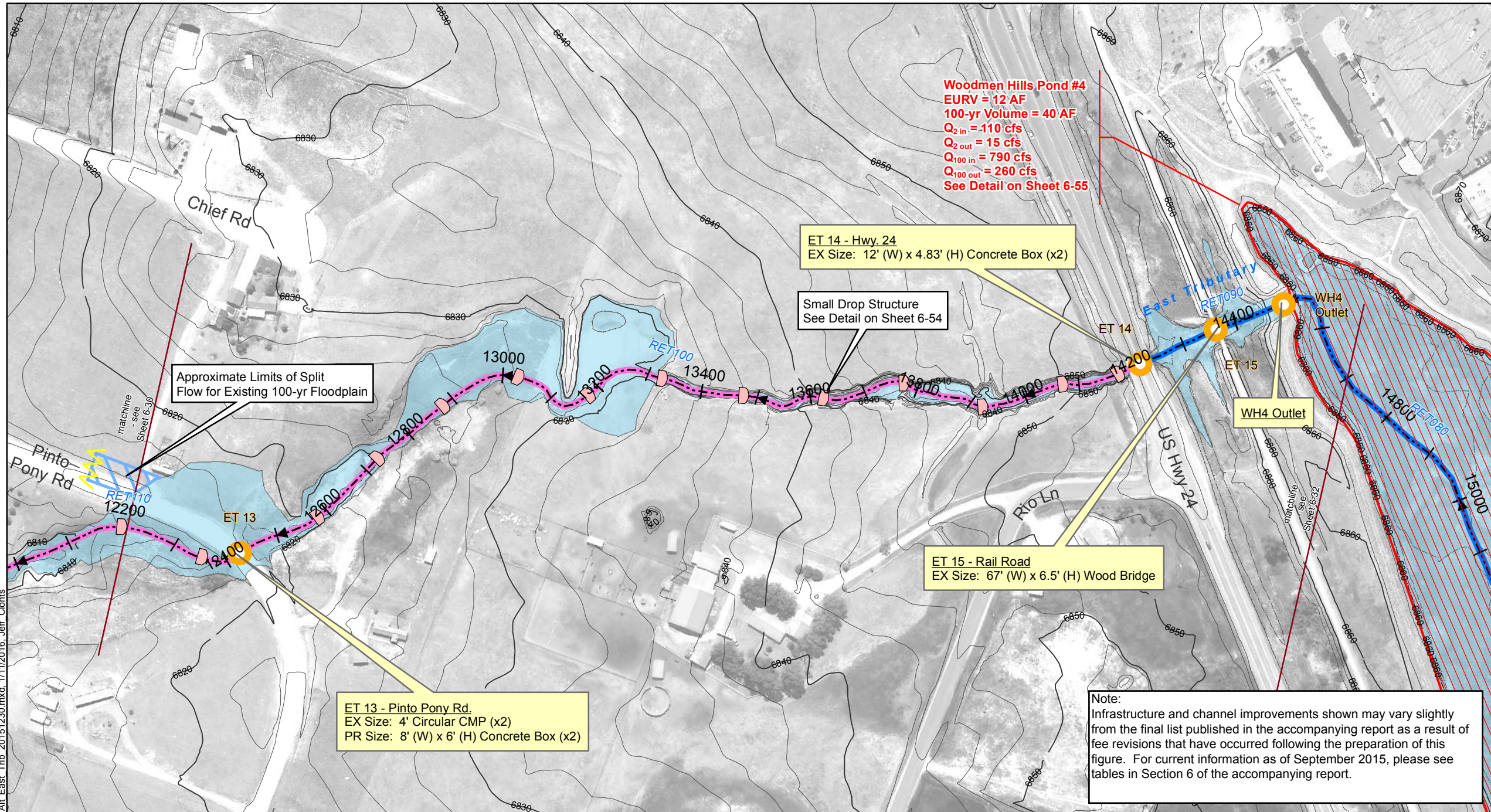
- Drainageway Crossing
- Stream Centerline
- Existing Approximate 100-yr Floodplain*
- Floodplain Study Limit
- Storm Sewer**
 - Inlet
 - Manhole
 - Pipe
- Reach Improvements**
 - Natural Channel Design
 - Protect In Place
 - Roadside Ditch Improvement
 - Small Drop Structures w/ Toe Protection
 - Existing Detention
 - Proposed Detention
 - Proposed Pond Grading
 - Small Drop Structure
 - Cross Vane
 - Immediate Action Required to Preserve Existing Condition



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FILE: G:\gis\projects\Falcon Creek DBPS\active\apps\20130617\mapbooks\Sel Alt East Trib 20151230.mxd 1/11/2016 Jeff Contis



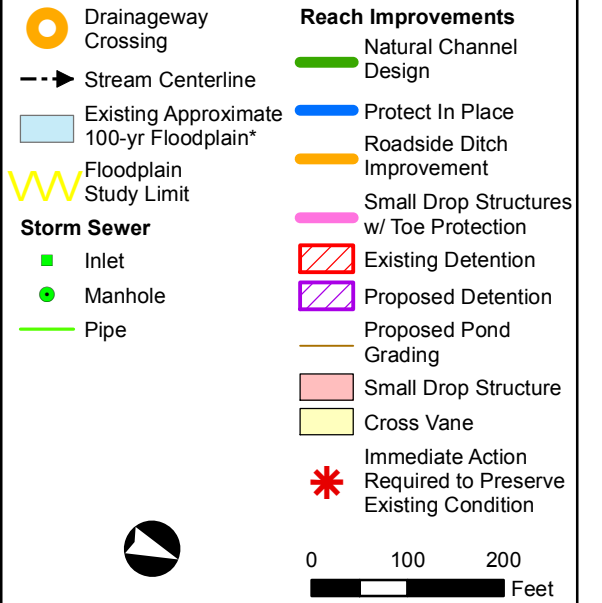
Sheet 6-31

Falcon DBPS

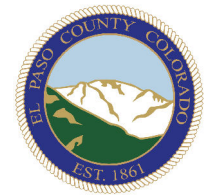
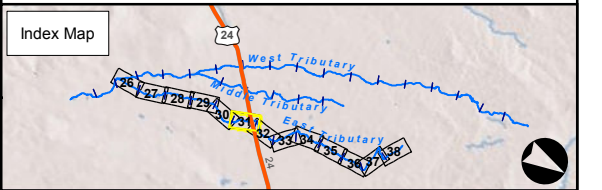
Conceptual Plan

East Tributary

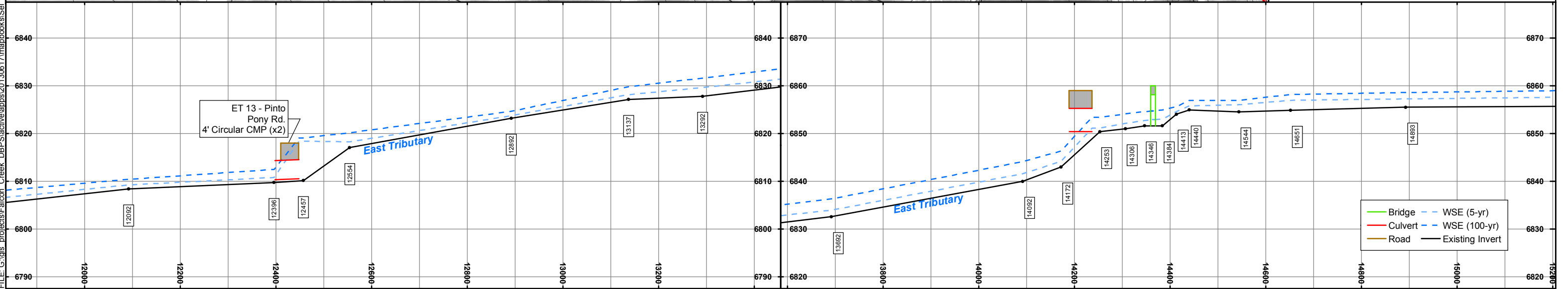
El Paso County, CO



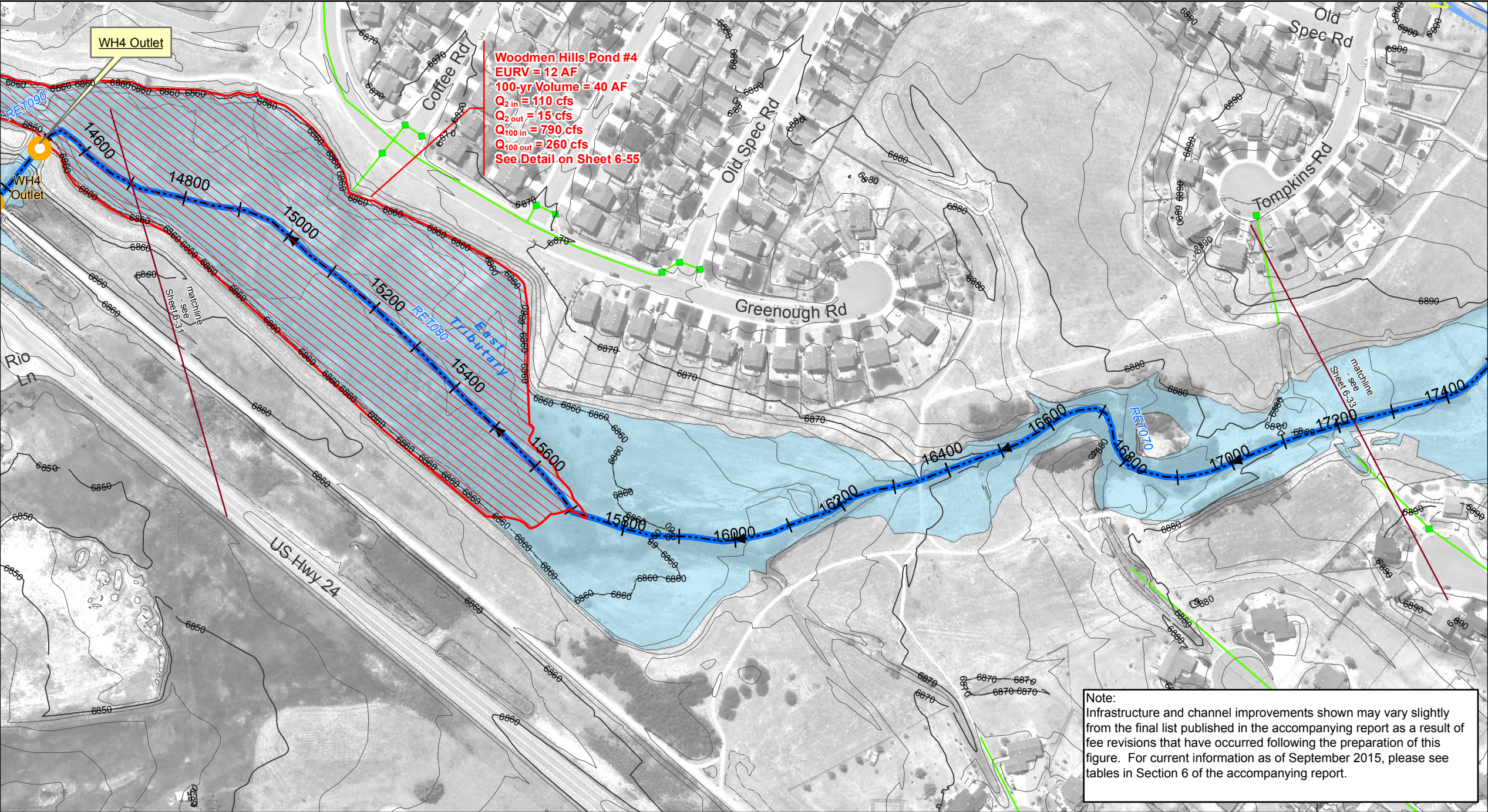
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Matrix
DESIGN GROUP



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Sheet 6-32
Falcon DBPS
Conceptual Plan
East Tributary
El Paso County, CO

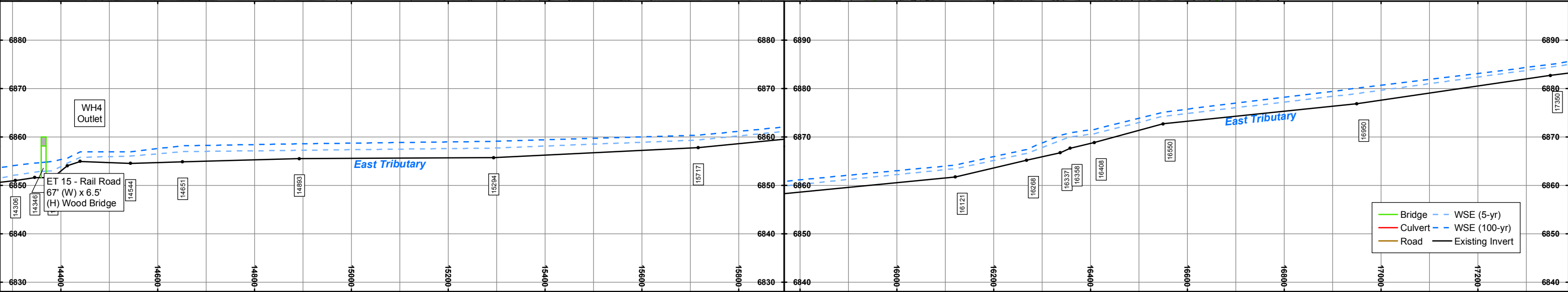
- | | |
|---|--|
| Drainageway Crossing | Reach Improvements |
| Stream Centerline | Natural Channel Design |
| Existing Approximate 100-yr Floodplain* | Protect In Place |
| Floodplain Study Limit | Roadside Ditch Improvement |
| Storm Sewer | Small Drop Structures w/ Toe Protection |
| Inlet | Existing Detention |
| Manhole | Proposed Detention |
| Pipe | Proposed Pond Grading |
| | Small Drop Structure |
| | Cross Vane |
| | Immediate Action Required to Preserve Existing Condition |
- 0 100 200 Feet

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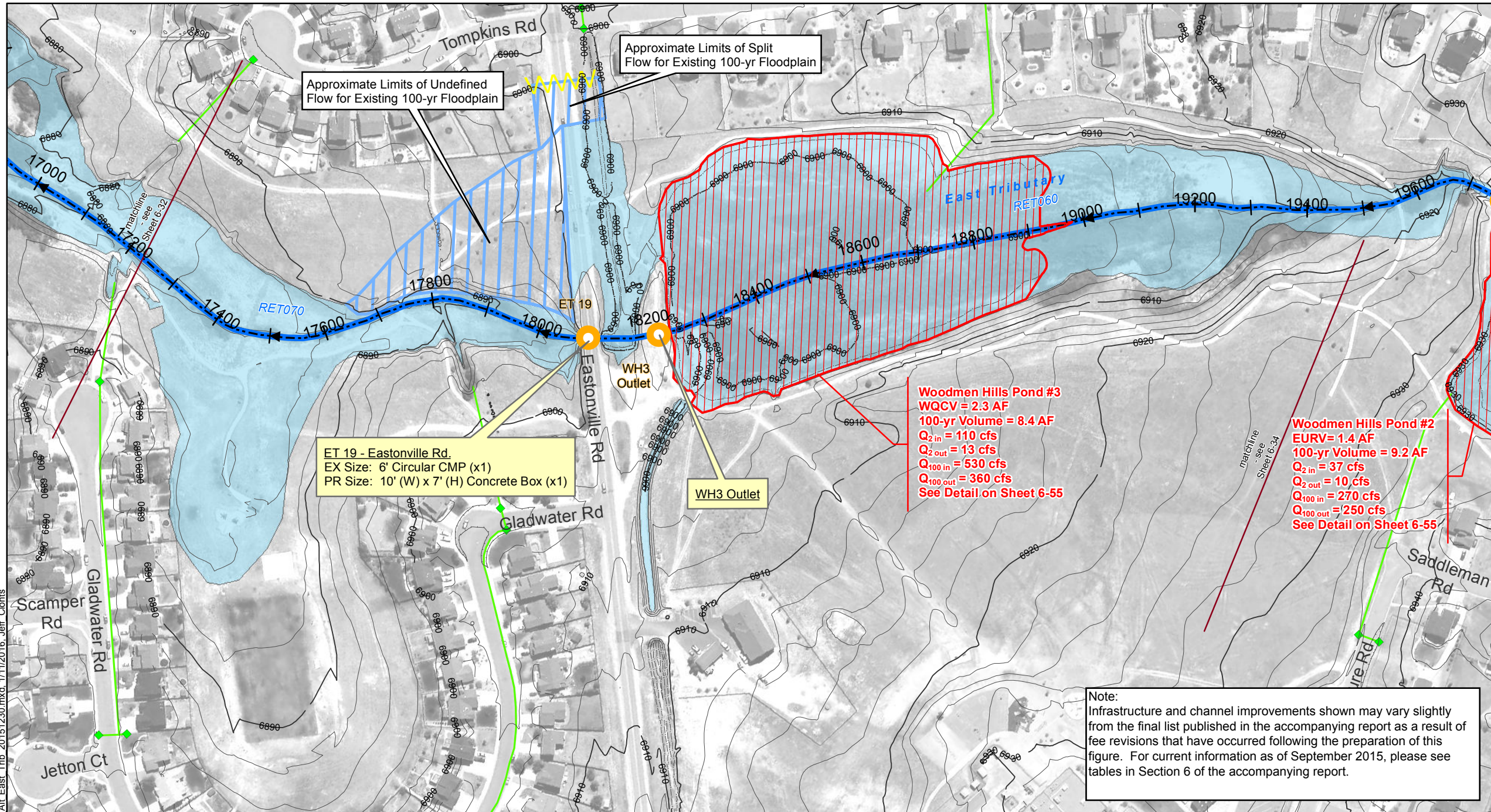


Matrix
DESIGN GROUP

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FILE: G:\gis\projects\Falcon Creek DBPS\active\apps20130617\mapbooks\Sel Alt East Trib 20151230.mxd 1/11/2016 Jeff Clonts



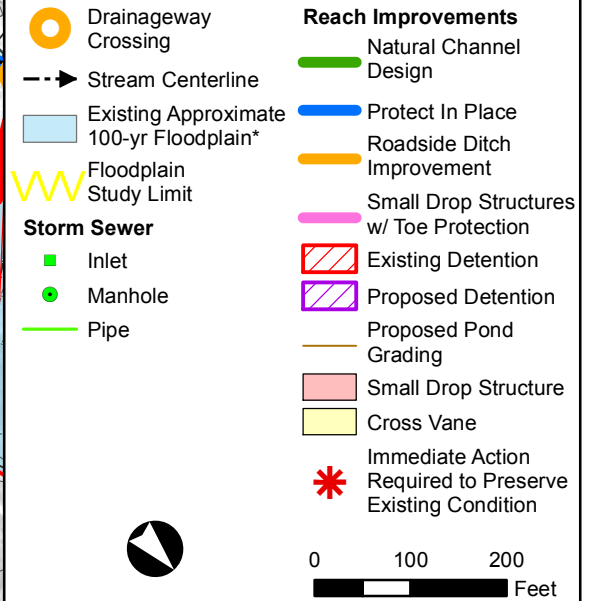
Sheet 6-33

Falcon DBPS

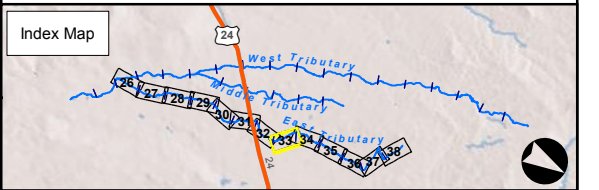
Conceptual Plan

East Tributary

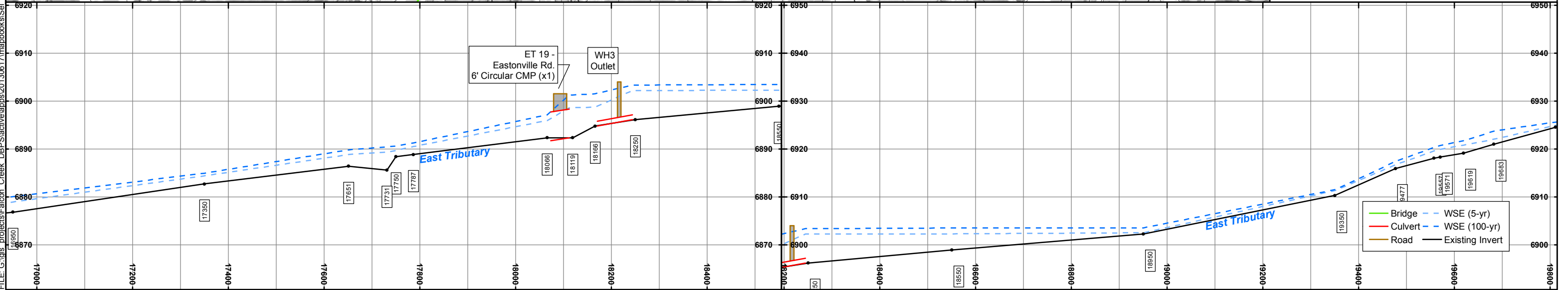
El Paso County, CO



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Matrix
DESIGN GROUP



Sheet 6-35
Falcon DBPS
Conceptual Plan
East Tributary
El Paso County, CO

- Drainageway Crossing

Stream Centerline

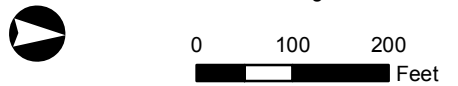
Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

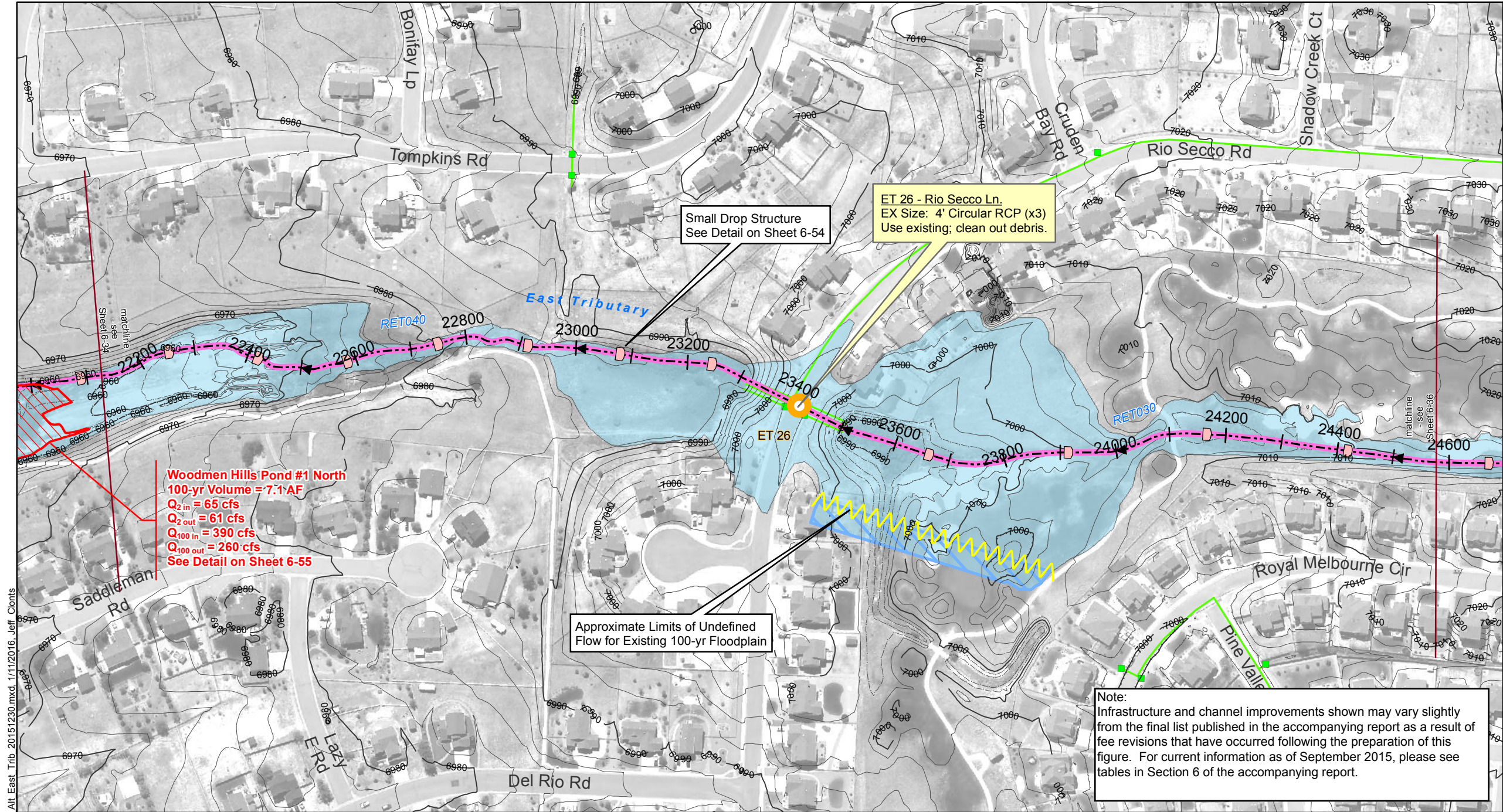
Storm Sewer

 - Inlet
 - Manhole
 - Pipe
- Reach Improvements**

 - Natural Channel Design
 - Protect In Place
 - Roadside Ditch Improvement
 - Small Drop Structures w/ Toe Protection
 - Existing Detention
 - Proposed Detention
 - Proposed Pond Grading
 - Small Drop Structure
 - Cross Vane
 - Immediate Action Required to Preserve Existing Condition



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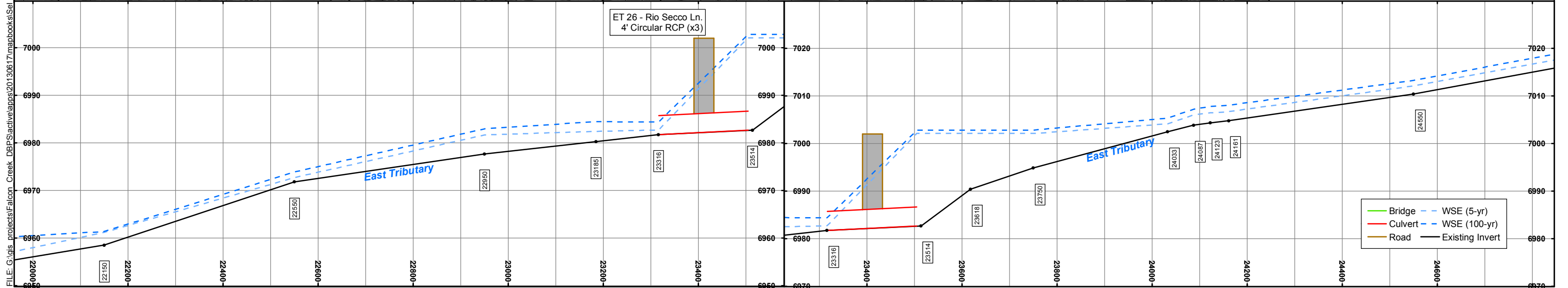
Woodmen Hills Pond #1 North
100-yr Volume = 7.1 AF
Q_{2 in} = 65 cfs
Q_{2 out} = 61 cfs
Q_{100 in} = 390 cfs
Q_{100 out} = 260 cfs
See Detail on Sheet 6-55

Approximate Limits of Undefined Flow for Existing 100-yr Floodplain

ET 26 - Rio Secco Ln.
EX Size: 4' Circular RCP (x3)
Use existing; clean out debris.

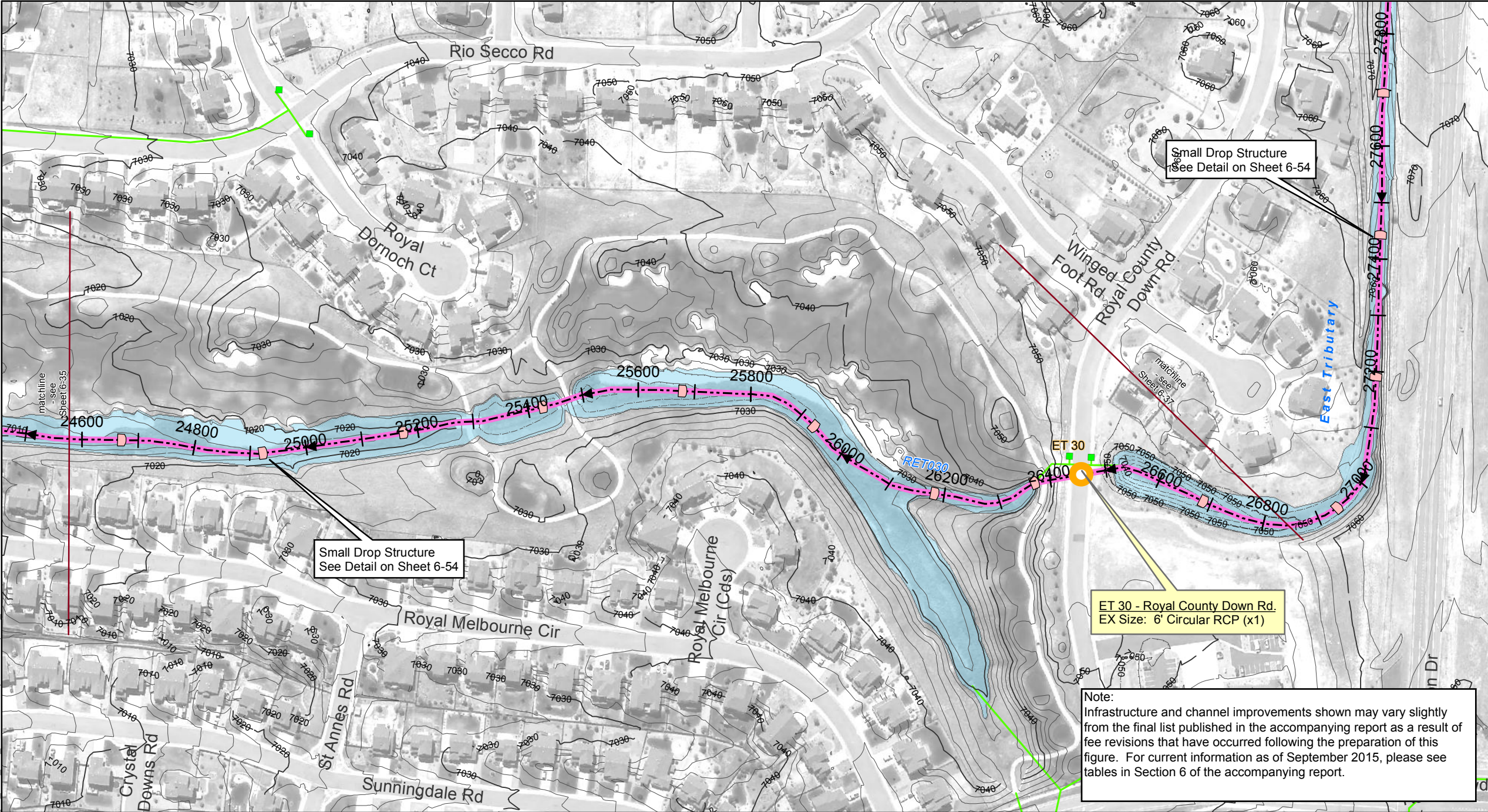
Small Drop Structure
See Detail on Sheet 6-54

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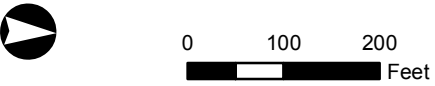
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Sheet 6-36
Falcon DBPS
Conceptual Plan
East Tributary
El Paso County, CO

- | | |
|---|--|
| Drainageway Crossing | Reach Improvements |
| Stream Centerline | Protect In Place |
| Existing Approximate 100-yr Floodplain* | Roadside Ditch Improvement |
| Floodplain Study Limit | Small Drop Structures w/ Toe Protection |
| Storm Sewer | Existing Detention |
| Inlet | Proposed Detention |
| Manhole | Proposed Pond Grading |
| Pipe | Small Drop Structure |
| | Cross Vane |
| | Immediate Action Required to Preserve Existing Condition |

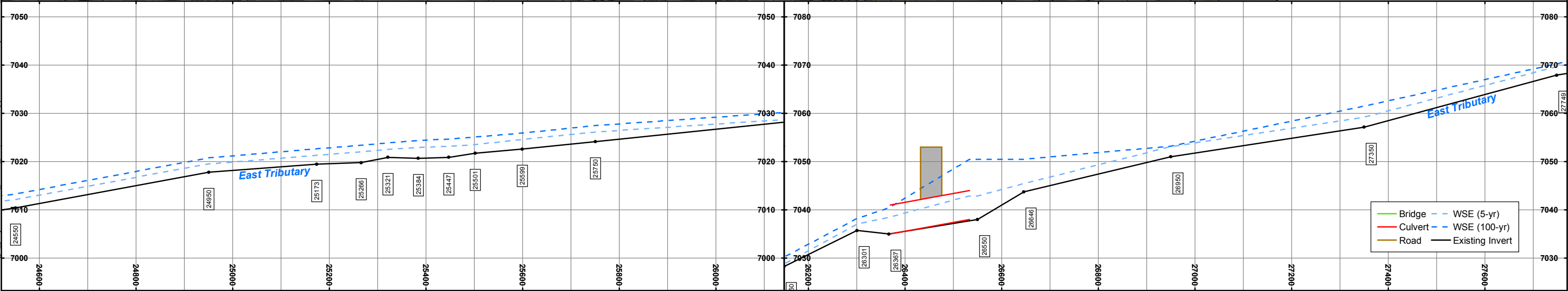


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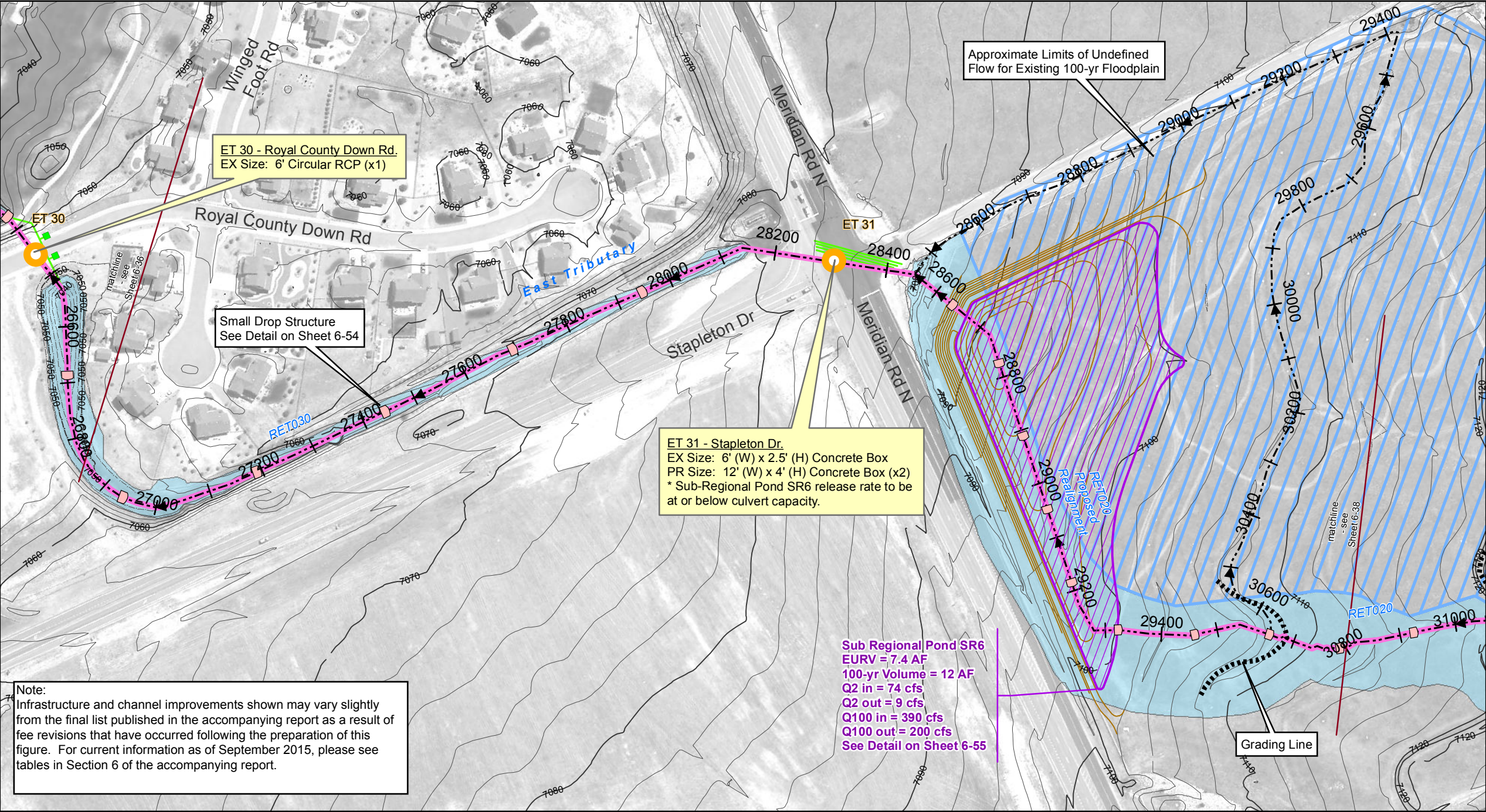


Matrix
DESIGN GROUP

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FILE: G:\gis\projects\Falcon_Creek_DBPS\active\apps\20130617\mapbooks\Sel Alt East Trib 20151230.mxd, 1/11/2016, Jeff. Clonts



Sheet 6-37

Falcon DBPS

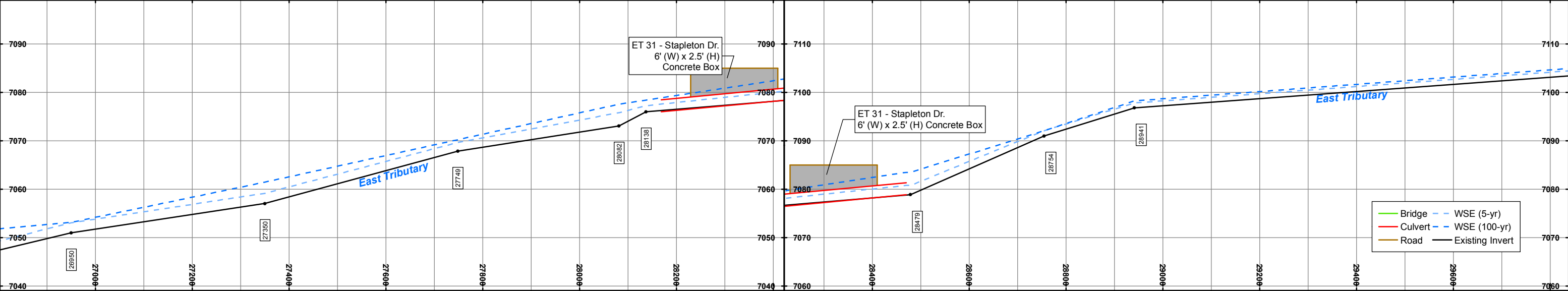
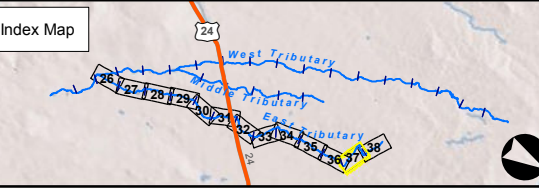
Conceptual Plan

East Tributary

El Paso County, CO

- Drainageway Crossing
 - Stream Centerline
 - Existing Approximate 100-yr Floodplain*
 - Floodplain Study Limit
 - Storm Sewer
 - Inlet
 - Manhole
 - Pipe
 - Reach Improvements
 - Natural Channel Design
 - Protect In Place
 - Roadside Ditch Improvement
 - Small Drop Structures w/ Toe Protection
 - Existing Detention
 - Proposed Detention
 - Proposed Pond Grading
 - Small Drop Structure
 - Cross Vane
 - Immediate Action Required to Preserve Existing Condition
- 0 100 200 Feet

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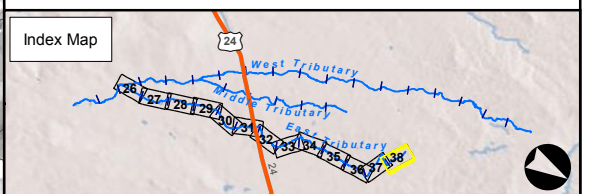
Sheet 6-38 **Falcon DBPS** **Conceptual Plan** **East Tributary** **El Paso County, CO**

- Drainageway Crossing
- Stream Centerline
- Existing Approximate 100-yr Floodplain*
- Floodplain Study Limit
- Storm Sewer**
 - Inlet
 - Manhole
 - Pipe
- Reach Improvements**
 - Natural Channel Design
 - Protect In Place
 - Roadside Ditch Improvement
 - Small Drop Structures w/ Toe Protection
 - Existing Detention
 - Proposed Detention
 - Proposed Pond Grading
 - Small Drop Structure
 - Cross Vane
 - Immediate Action Required to Preserve Existing Condition



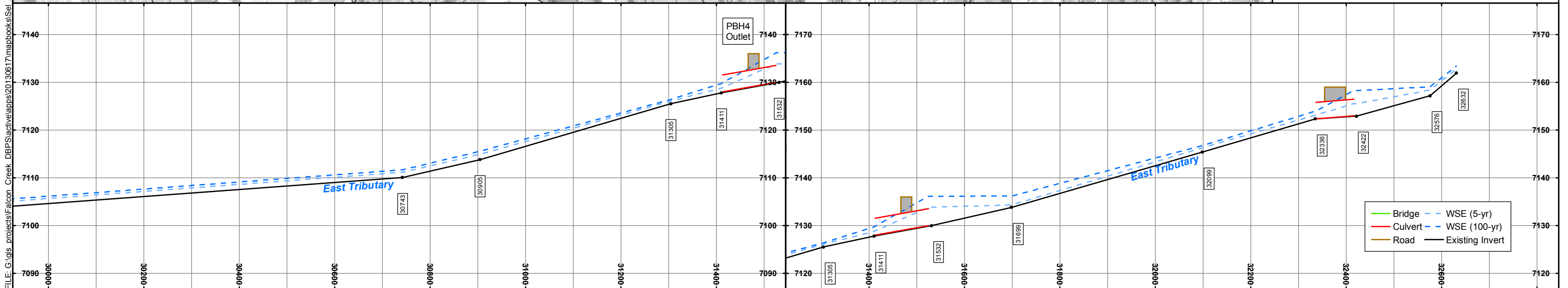
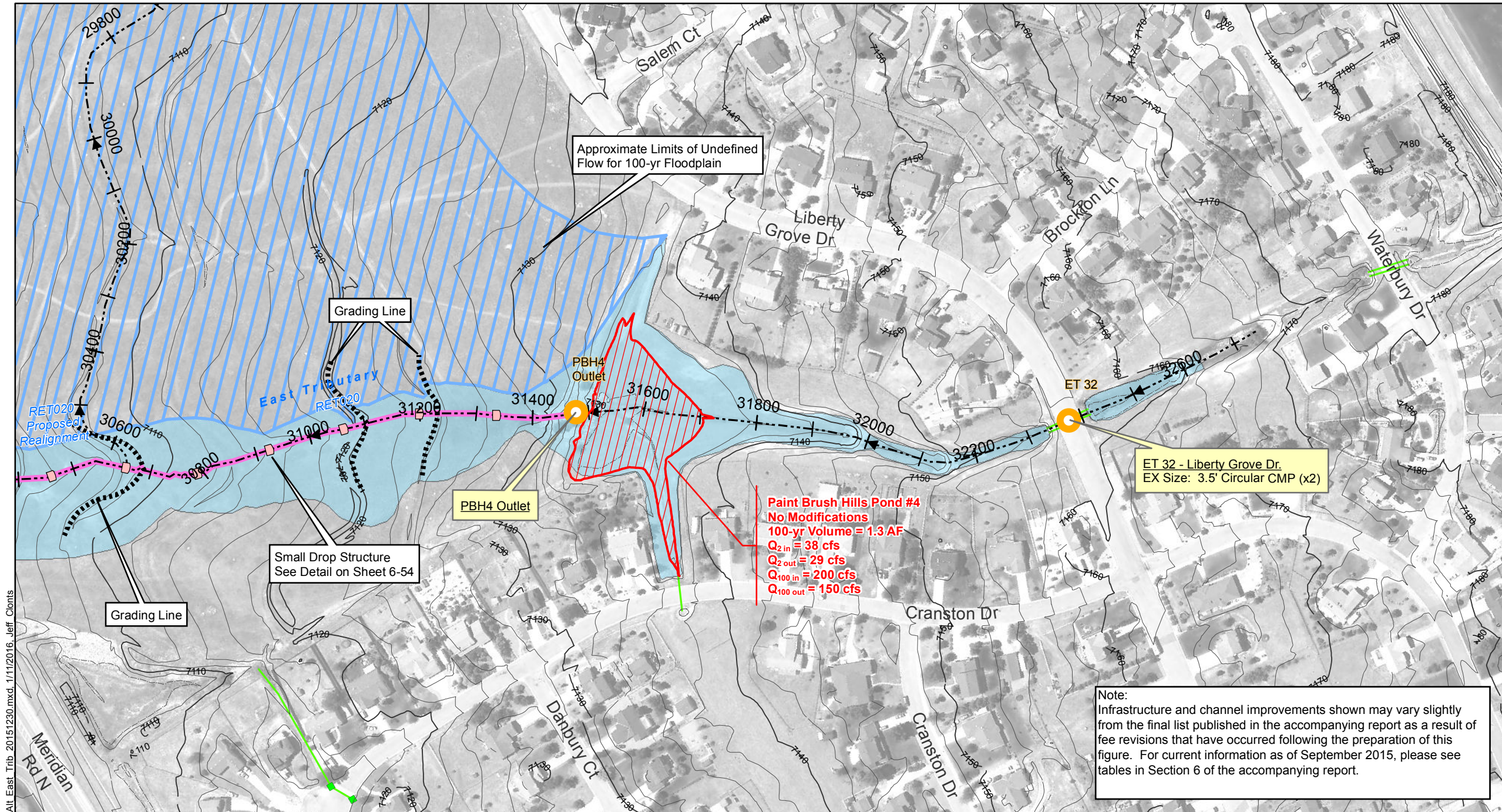
0 100 200
Feet

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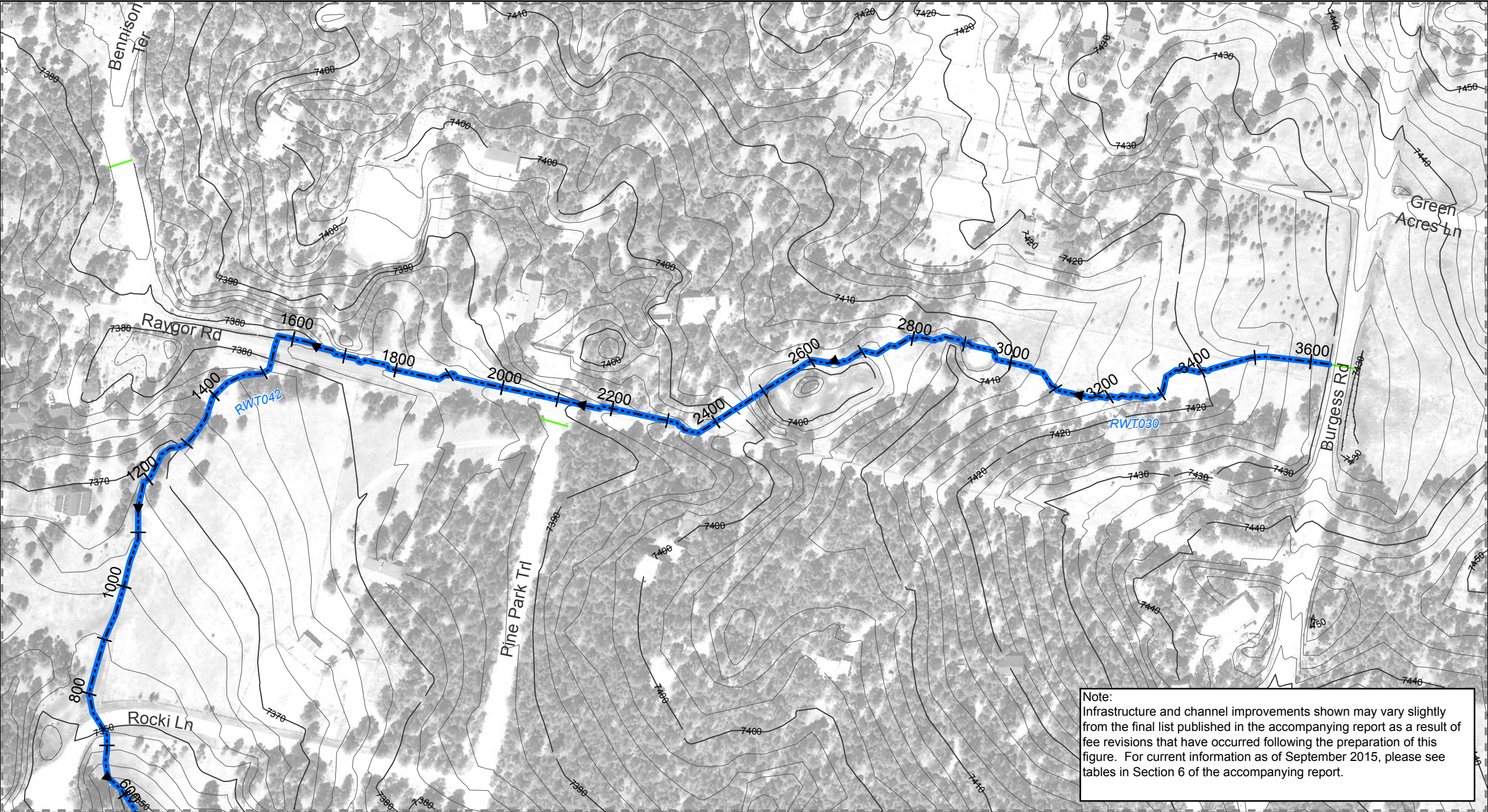


Matrix
 DESIGN GROUP

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Sheet 6-39
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer

Inlet

Manhole

Pipe

Reach Improvements

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

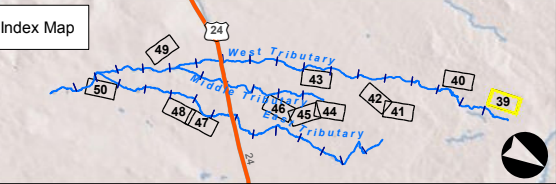
Proposed Detention Grading

Small Drop Structure

Cross Vane

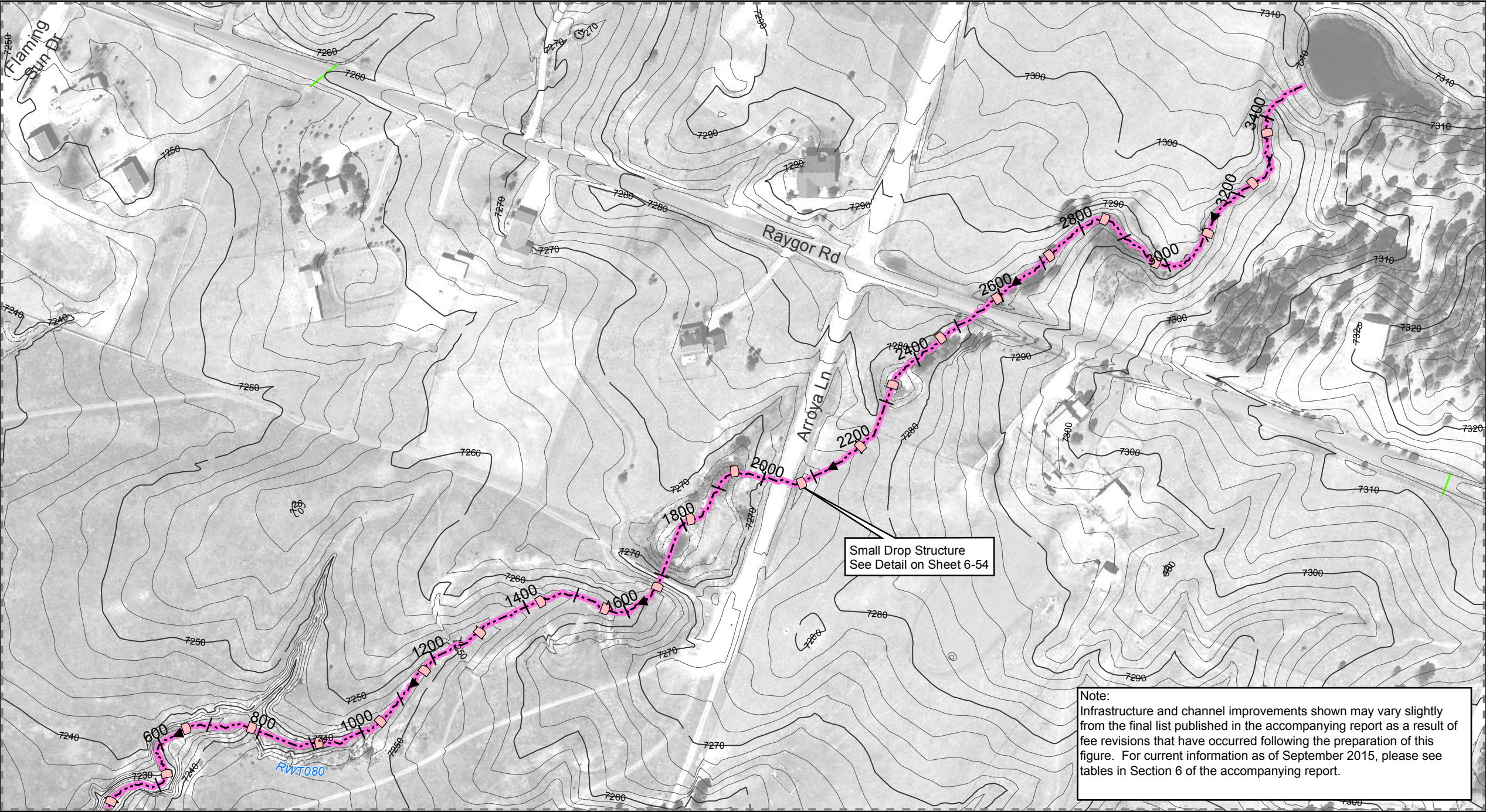
Immediate Action Required to Preserve Existing Condition

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NO PROFILES FOR SMALL TRIBUTARIES

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Sheet 6-40
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Inlet

Manhole

Pipe

Storm Sewer

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition

Reach Improvements

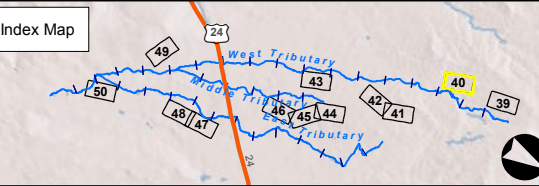
0

100

200

Feet

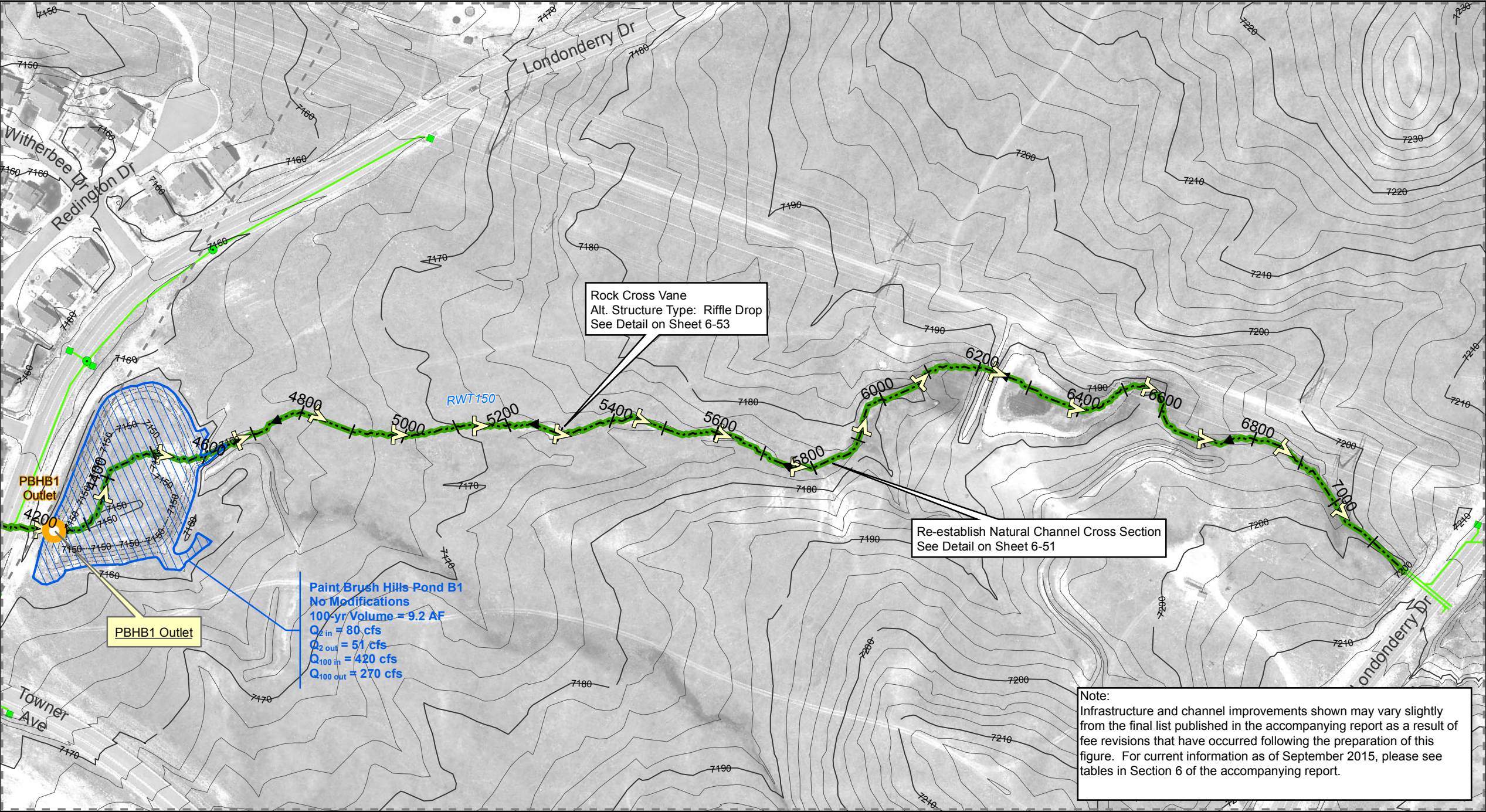
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NO PROFILES FOR SMALL TRIBUTARIES

FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps20130617\mapbooks\Set Alt Small Trib.mxd, 1/11/2016, Jeff Clonts



Sheet 6-41
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Inlet

Manhole

Pipe

Reach Improvements

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition

0

100

200

Feet

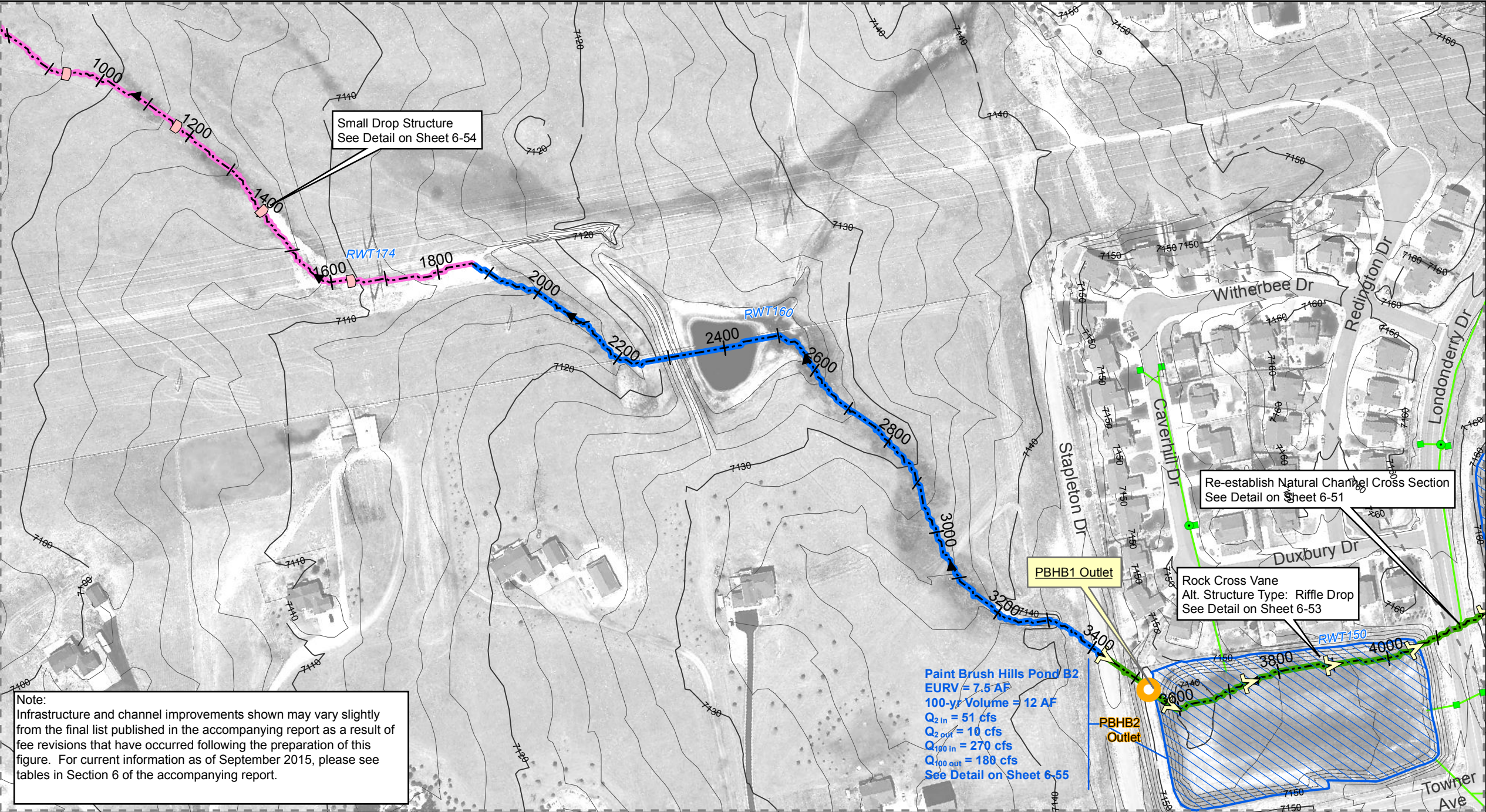
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FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps\20130617\mapbooks\Set Alt Small Trib.mxd, 1/11/2016, Jeff Clonts



Sheet 6-42
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Inlet

Manhole

Pipe

Storm Sewer

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition

Reach Improvements

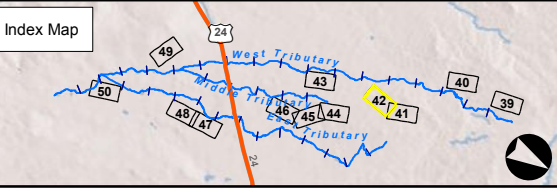
0

100

200

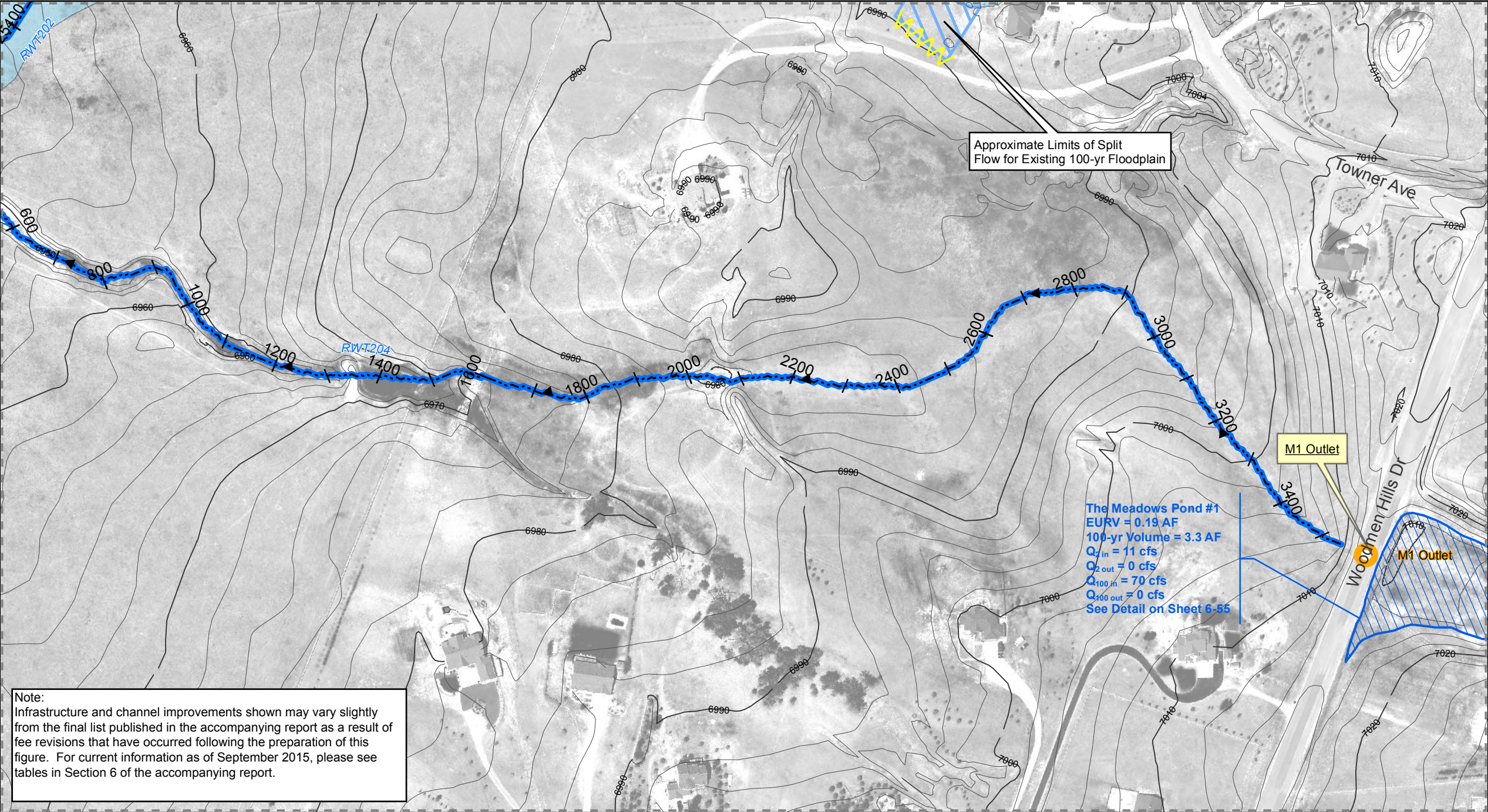
Feet

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Sheet 6-43
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Inlet

Manhole

Pipe

Storm Sewer

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition

Reach Improvements

0

100

200

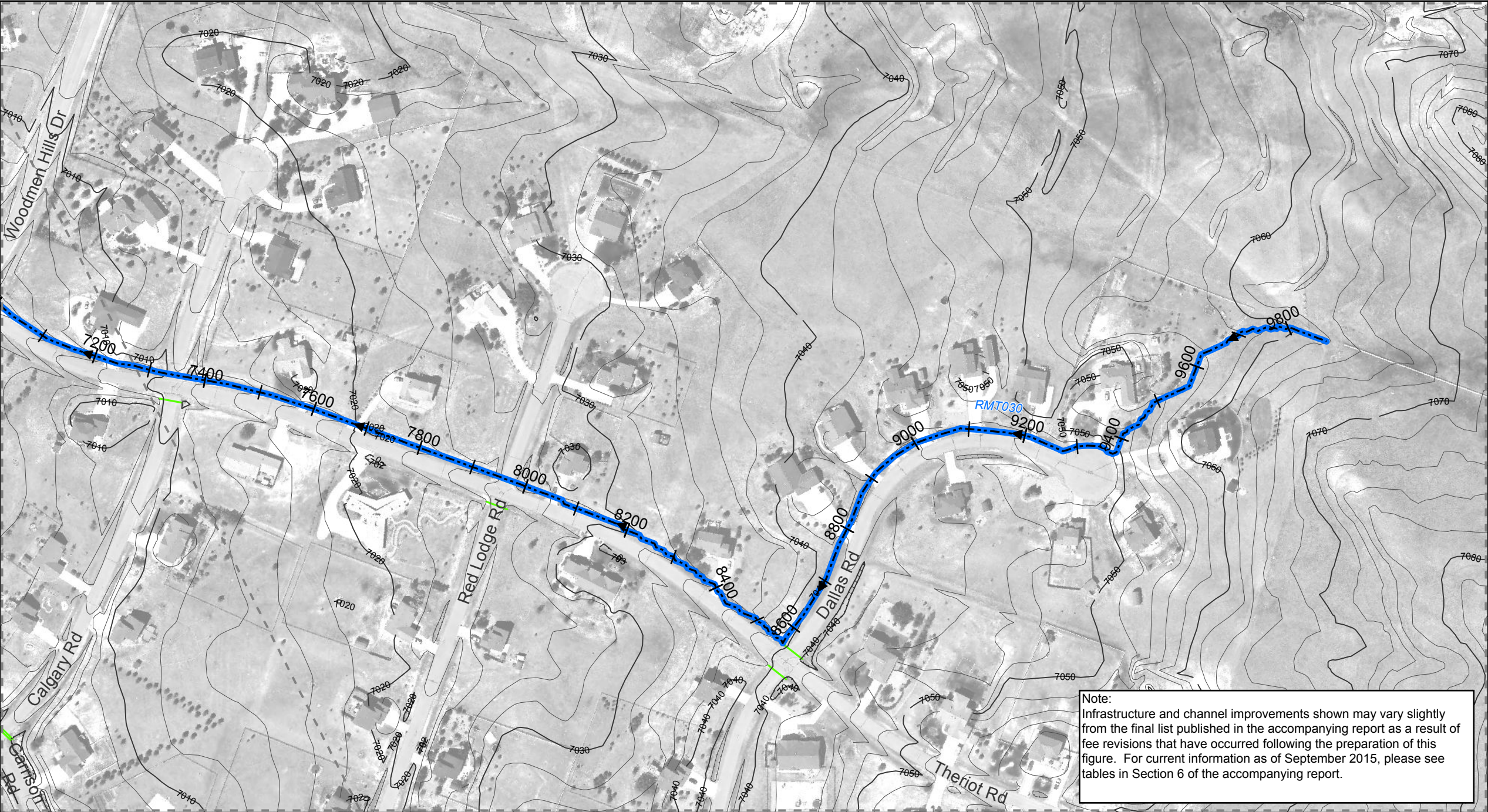
Feet

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Sheet 6-44
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Inlet

Manhole

Pipe

Storm Sewer

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition

Reach Improvements

0

100

200

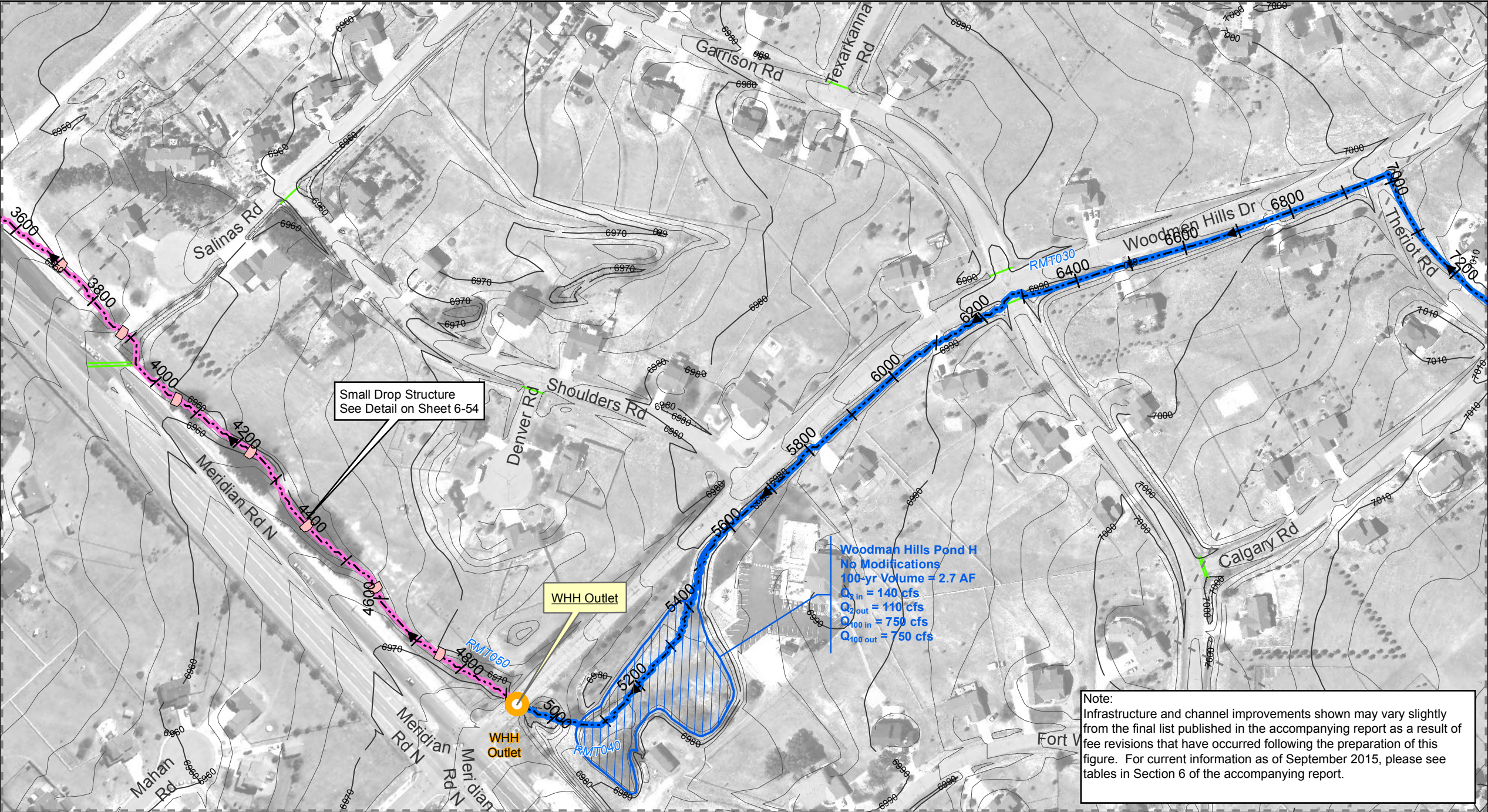
Feet

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Sheet 6-45
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer Inlet

Storm Sewer Manhole

Storm Sewer Pipe

Reach Improvements Natural Channel Design

Reach Improvements Protect In Place

Reach Improvements Roadside Ditch Improvement

Reach Improvements Small Drop Structures w/ Toe Protection

Reach Improvements Existing Detention

Reach Improvements Proposed Detention

Reach Improvements Proposed Detention Grading

Reach Improvements Small Drop Structure

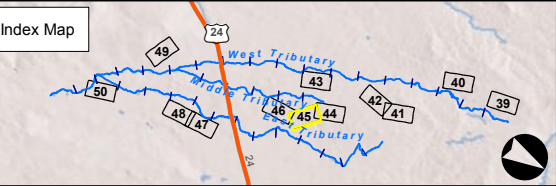
Reach Improvements Cross Vane

Immediate Action Required to Preserve Existing Condition

0100200

Feet

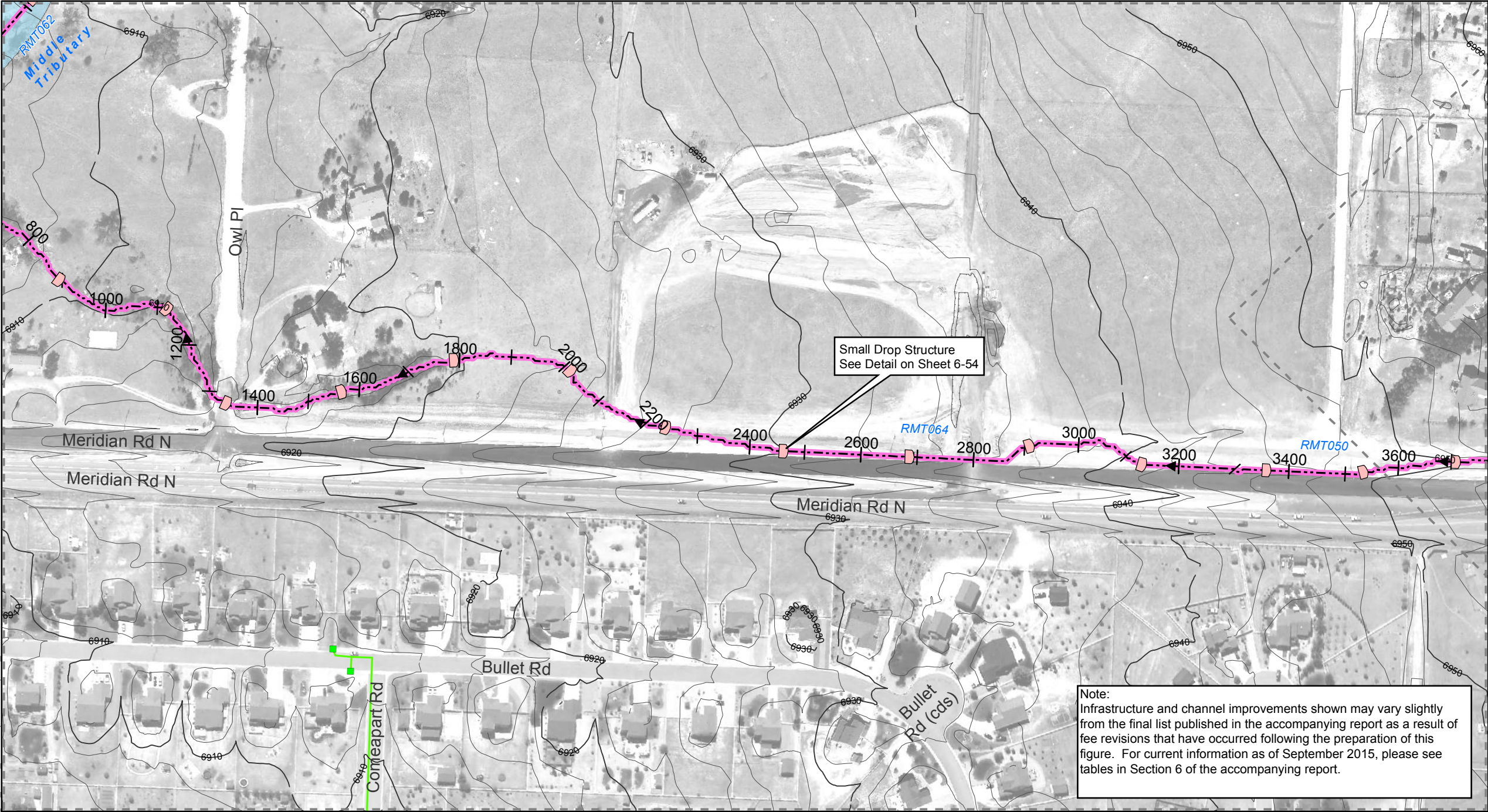
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Matrix
DESIGN GROUP

NO PROFILES FOR SMALL TRIBUTARIES

FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps20130617\mapbooks\Set Alt Small Trib.mxd, 1/11/2016, Jeff Clonts



Sheet 6-46
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer

Inlet

Manhole

Pipe

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

Cross Vane

Immediate Action Required to Preserve Existing Condition

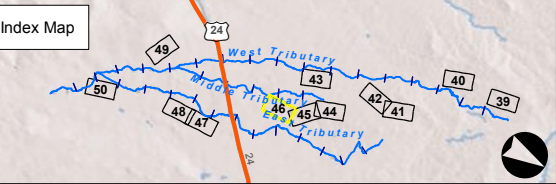
0

100

200

Feet

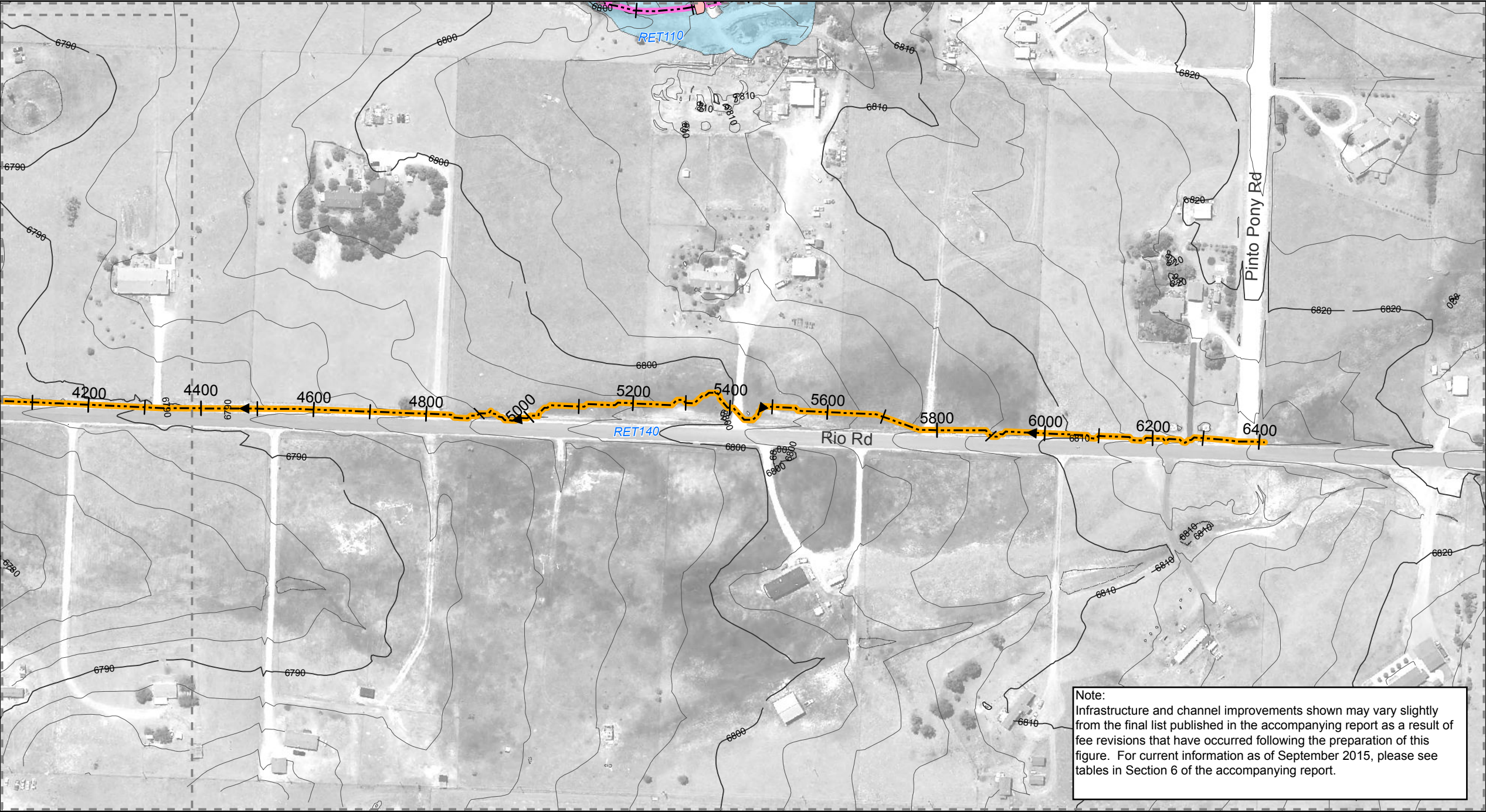
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NO PROFILES FOR SMALL TRIBUTARIES

FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps20130617\mapbooks\Sel Alt Small Trib.mxd, 1/11/2016, Jeff Clonts



Sheet 6-47
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

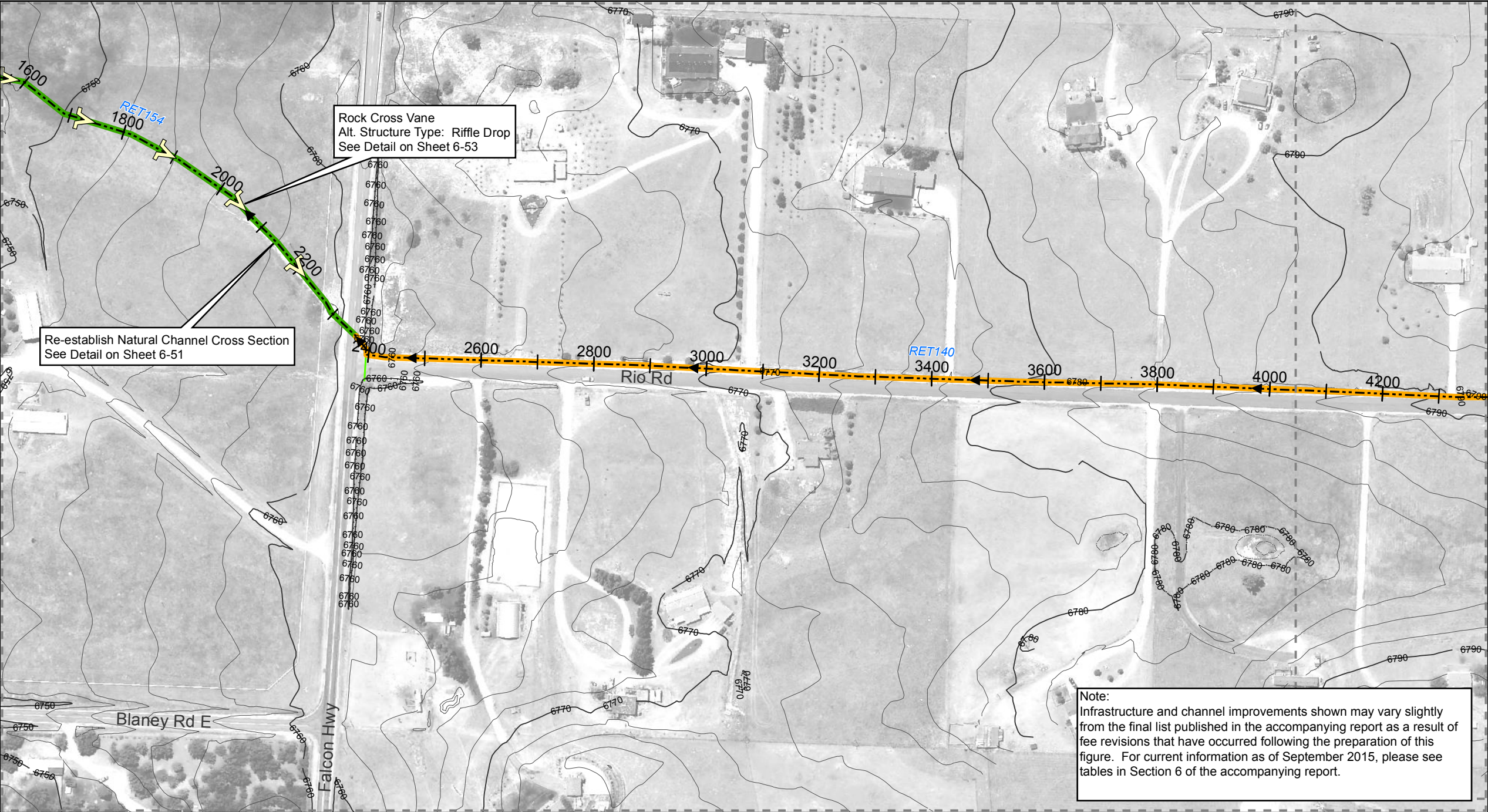
- | | |
|---|--|
| Drainageway Crossing | Reach Improvements |
| Stream Centerline | Natural Channel Design |
| Existing Approximate 100-yr Floodplain* | Protect In Place |
| Floodplain Study Limit | Roadside Ditch Improvement |
| Storm Sewer Inlet | Small Drop Structures w/ Toe Protection |
| Storm Sewer Manhole | Existing Detention |
| Storm Sewer Pipe | Proposed Detention |
| | Proposed Detention Grading |
| | Small Drop Structure |
| | Cross Vane |
| | Immediate Action Required to Preserve Existing Condition |
- 0 100 200 Feet

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NO PROFILES FOR SMALL TRIBUTARIES

FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps20130617\mapbooks\Sel Alt Small Trib.mxd, 1/11/2016, Jeff Clonts



Rock Cross Vane
Alt. Structure Type: Riffle Drop
See Detail on Sheet 6-53

Re-establish Natural Channel Cross Section
See Detail on Sheet 6-51

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Sheet 6-48
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Inlet

Manhole

Pipe

Natural Channel Design

Protect In Place

Roadside Ditch Improvement

Small Drop Structures w/ Toe Protection

Existing Detention

Proposed Detention

Proposed Detention Grading

Small Drop Structure

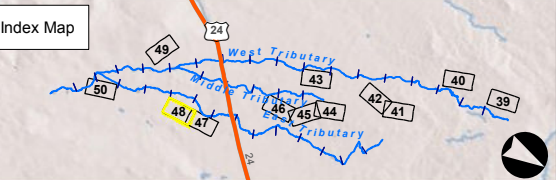
Cross Vane

Immediate Action Required to Preserve Existing Condition

0100200

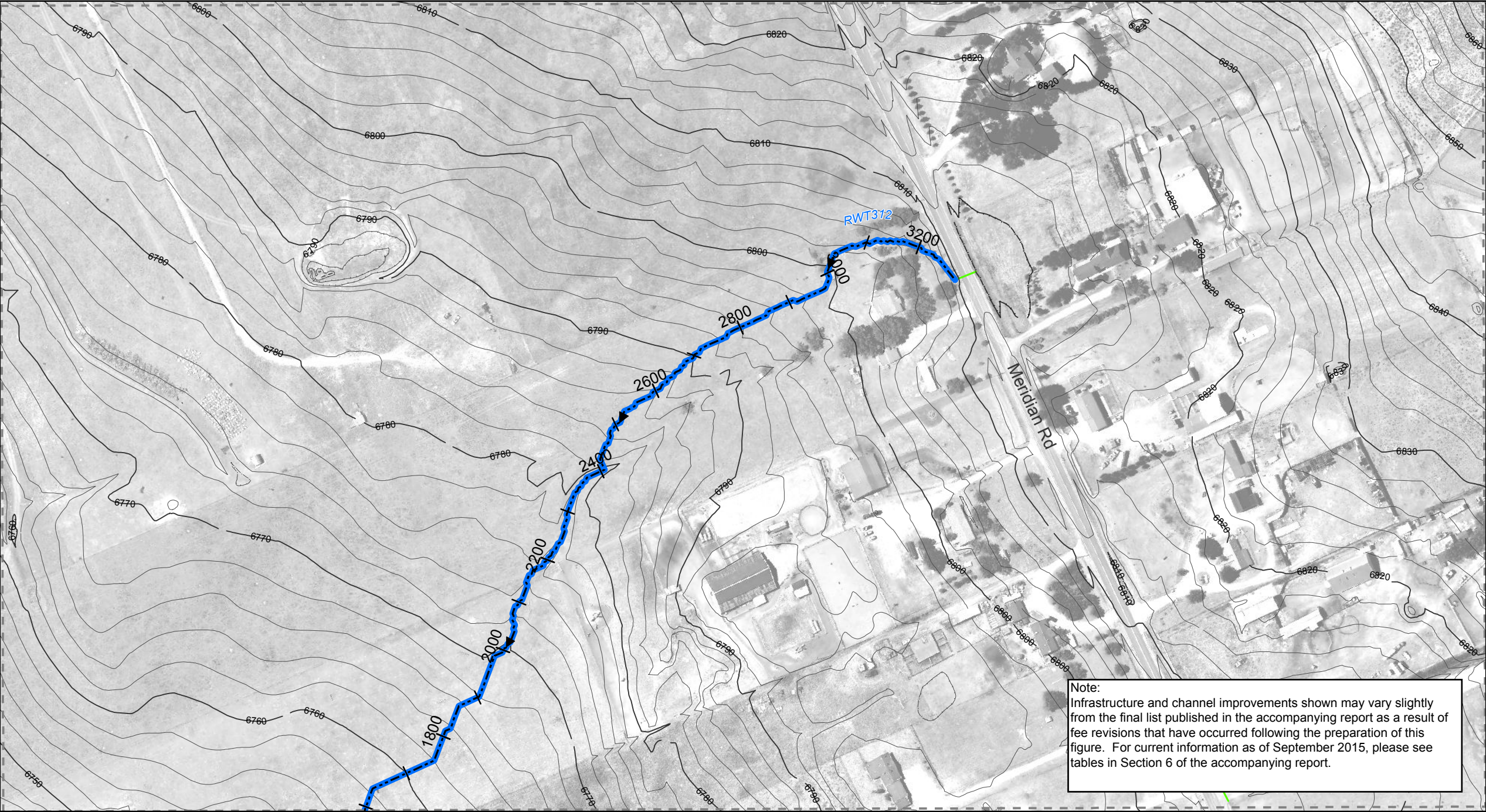
Feet

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Sheet 6-49
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing

Stream Centerline

Existing Approximate 100-yr Floodplain*

Floodplain Study Limit

Storm Sewer Inlet

Storm Sewer Manhole

Storm Sewer Pipe

Reach Improvements Natural Channel Design

Reach Improvements Protect In Place

Reach Improvements Roadside Ditch Improvement

Reach Improvements Small Drop Structures w/ Toe Protection

Reach Improvements Existing Detention

Reach Improvements Proposed Detention

Reach Improvements Proposed Detention Grading

Reach Improvements Small Drop Structure

Reach Improvements Cross Vane

Immediate Action Required to Preserve Existing Condition

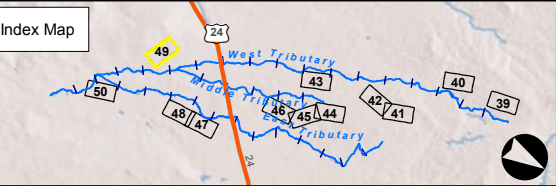
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100

200

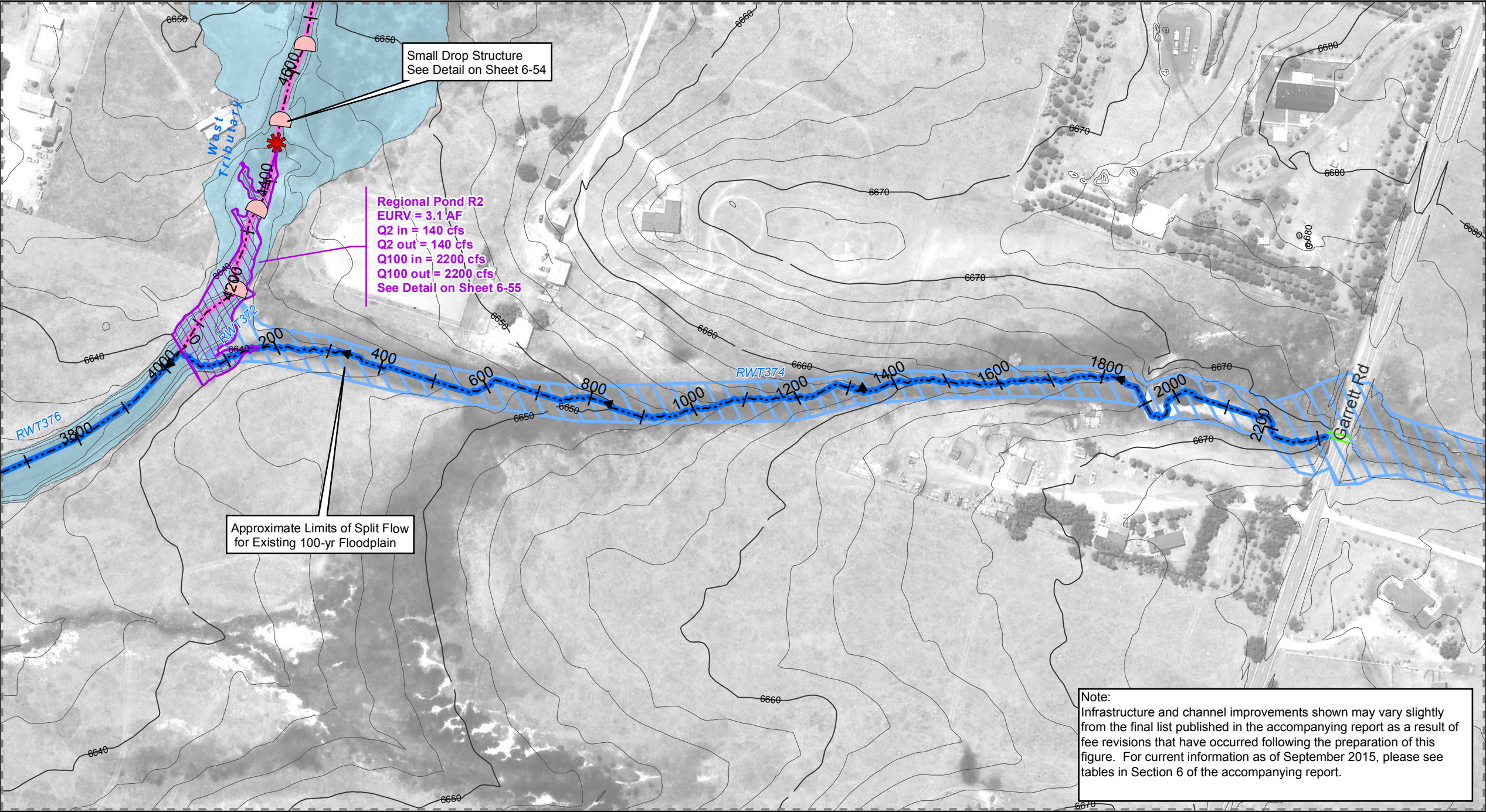
Feet

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FILE: G:\gis_projects\Falcon_Creek_DBPS\active\apps20130617\mapbooks\Set Alt Small Trib.mxd, 1/11/2016, Jeff Clonts



Sheet 6-50
Falcon DBPS
Conceptual Plan
Small Tributaries
El Paso County, CO

Drainageway Crossing	Reach Improvements Natural Channel Design
Stream Centerline	Protect In Place
Existing Approximate 100-yr Floodplain*	Roadside Ditch Improvement
Floodplain Study Limit	Small Drop Structures w/ Toe Protection
Storm Sewer Inlet	Existing Detention
Storm Sewer Manhole	Proposed Detention
Storm Sewer Pipe	Proposed Detention Grading
	Small Drop Structure
	Cross Vane
	Immediate Action Required to Preserve Existing Condition

0 100 200 Feet

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