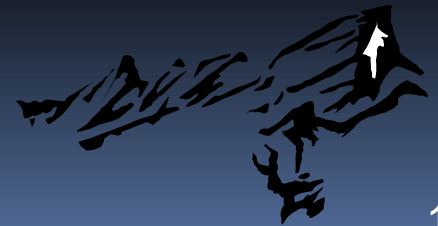


South Boulder Creek Flood Mitigation Plan Summary

Plan Boulder
December 16, 2016



South Boulder Creek Agenda

2

- Background / History
- Planning Process
- US36 Regional Detention
- Next Steps

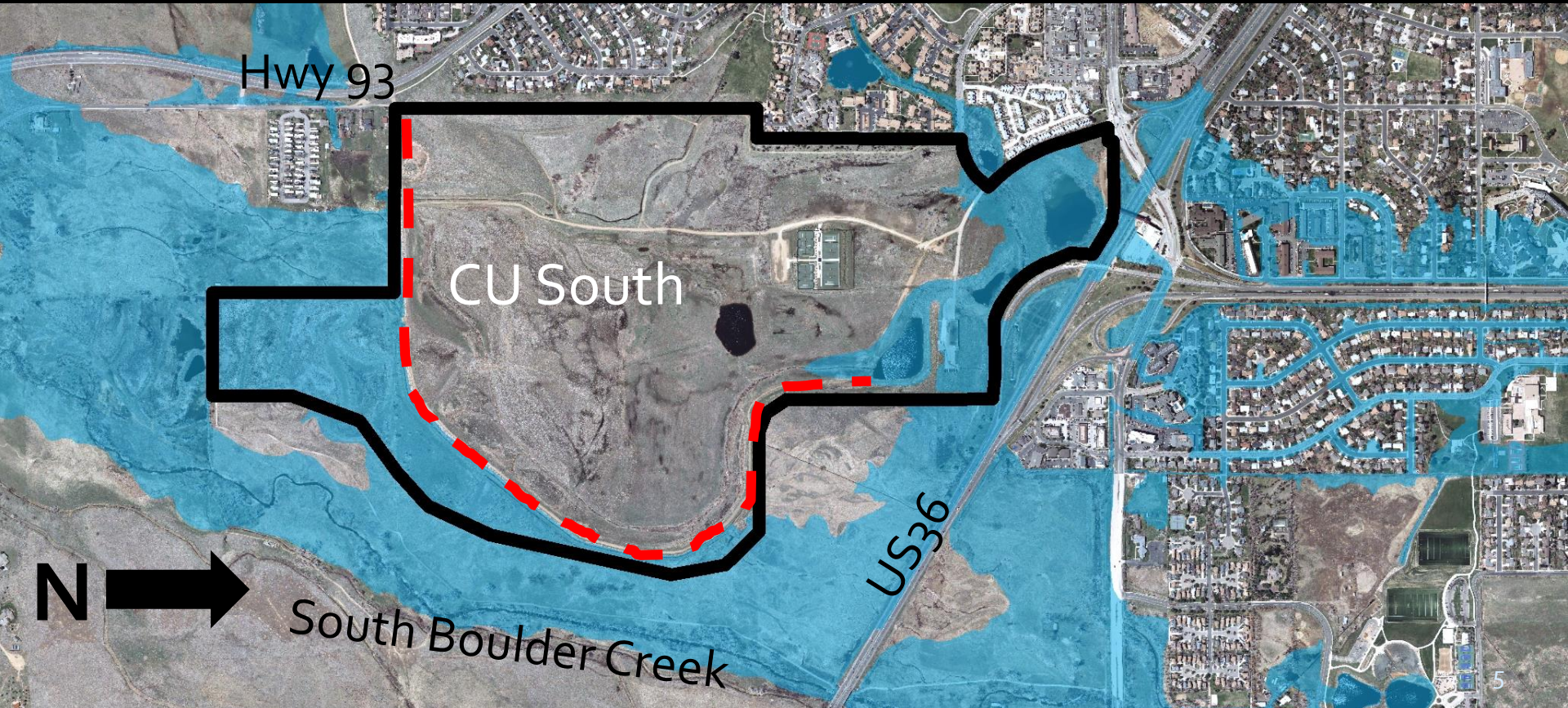
Current Floodplain



Current Floodplain



Current Floodplain – CU South



September 2013 Flood

6



Qualla Dr.

SOUTH BOULDER CREEK MAJOR DRAINAGEWAY PLAN— ALTERNATIVES ANALYSIS REPORT

7

Prepared for:

CITY OF BOULDER

URBAN DRAINAGE AND
FLOOD CONTROL DISTRICT

July 2014

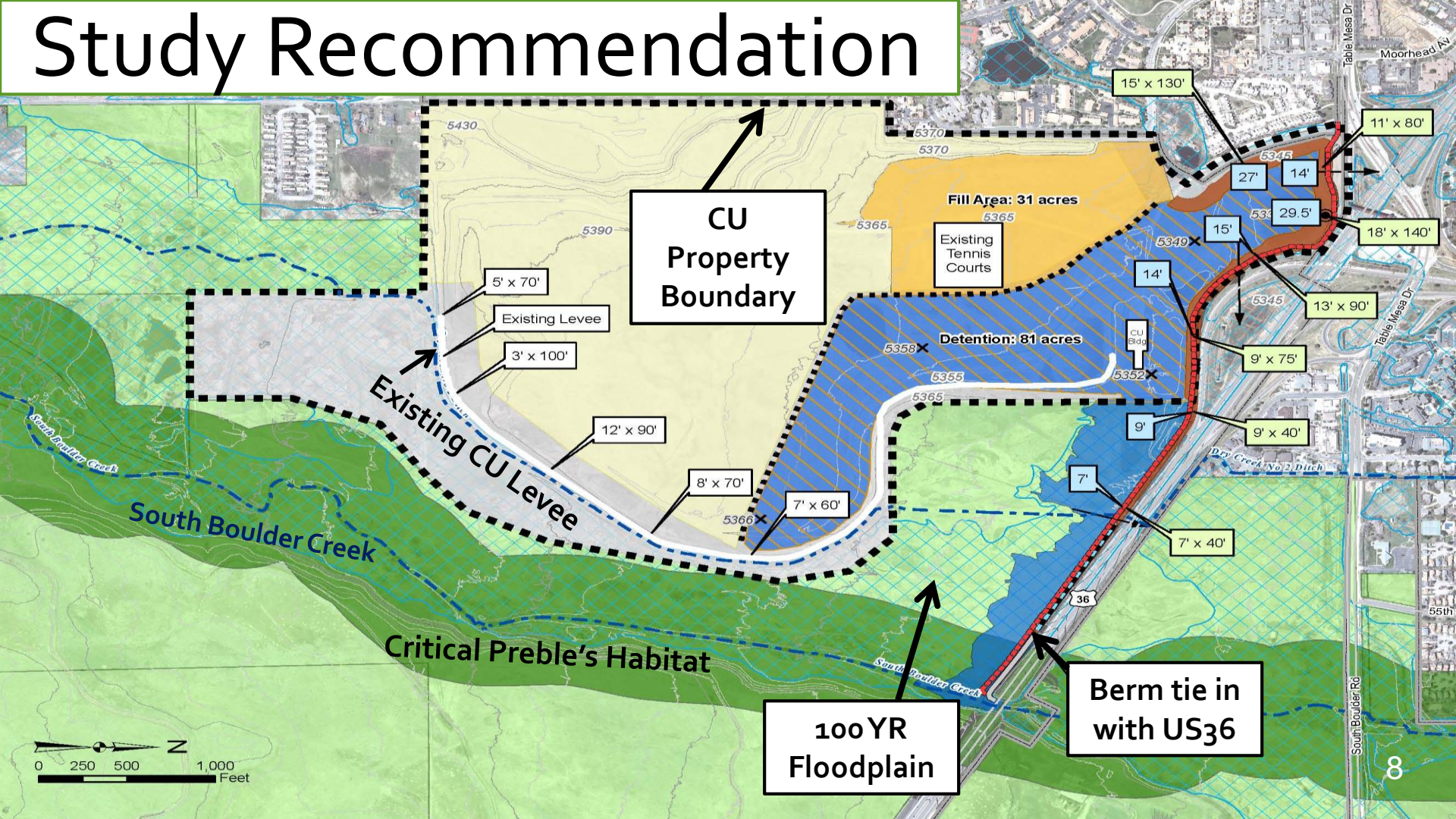


CH2MHILL

9191 South Jamaica Street
Englewood, CO 80112-5946
Phone (303) 771-0900
Fax (720) 286-9250



Study Recommendation





Next Steps

10

- ❑ Parallel Efforts:
 - Engineering
 - Planning

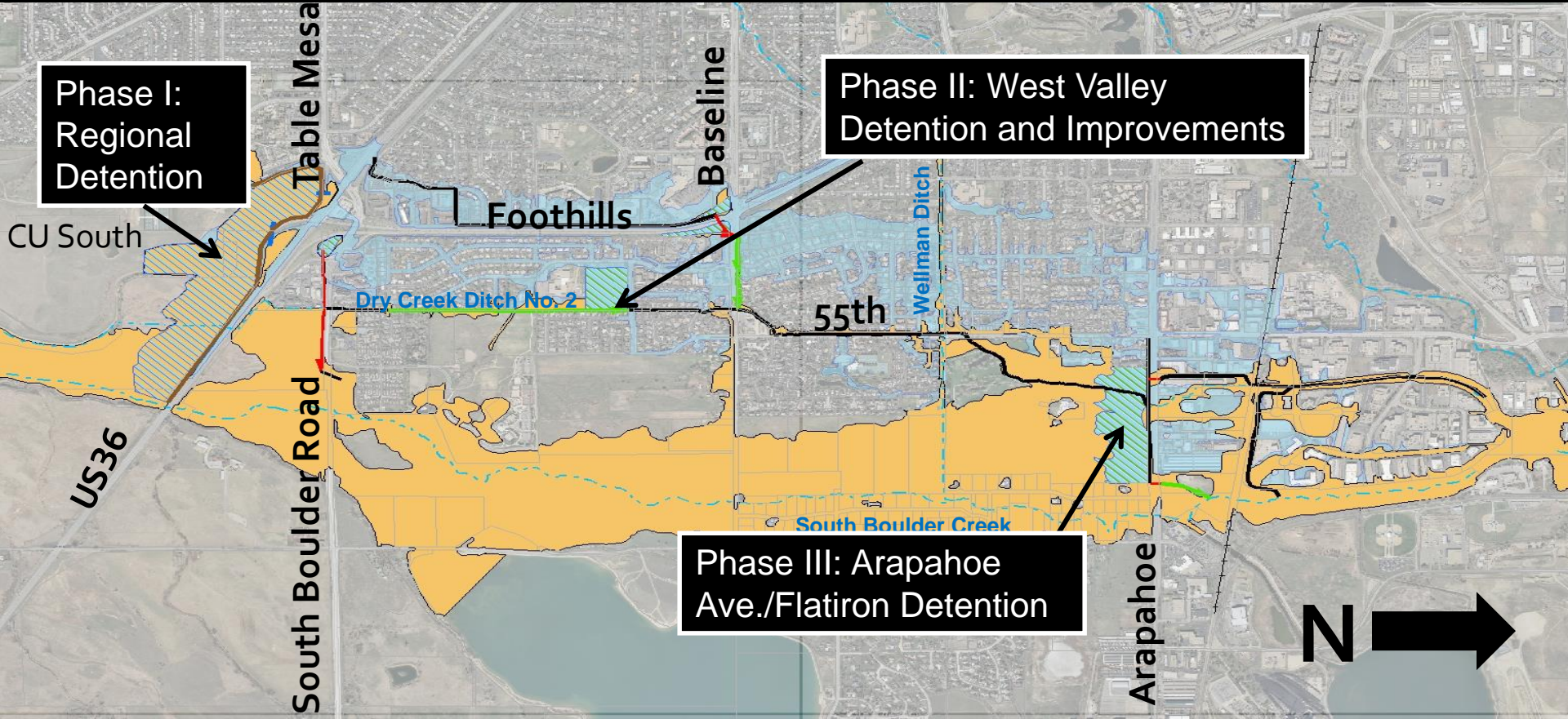
- ❑ Funding in 2018

- ❑ Design and Construction

Seven Options

	Single Berm	Dual Berm	Excavation	Fill
Option A	✓			✓
Option B	✓		✓	
Option C	✓		✓	✓
Option D	✓		✓	✓
Option E		✓		
Option F		✓	✓	
Option G		✓	✓	✓

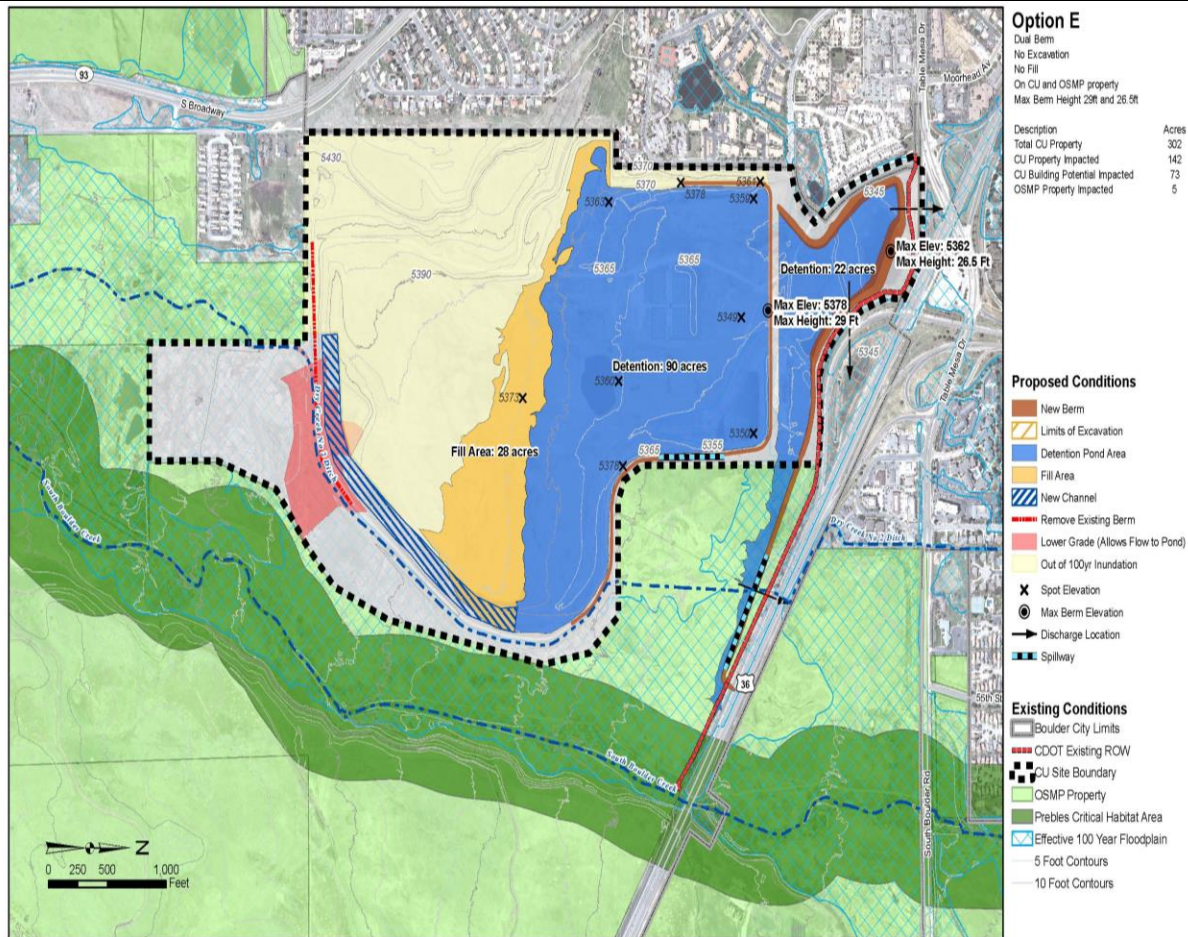
Recommended Plan



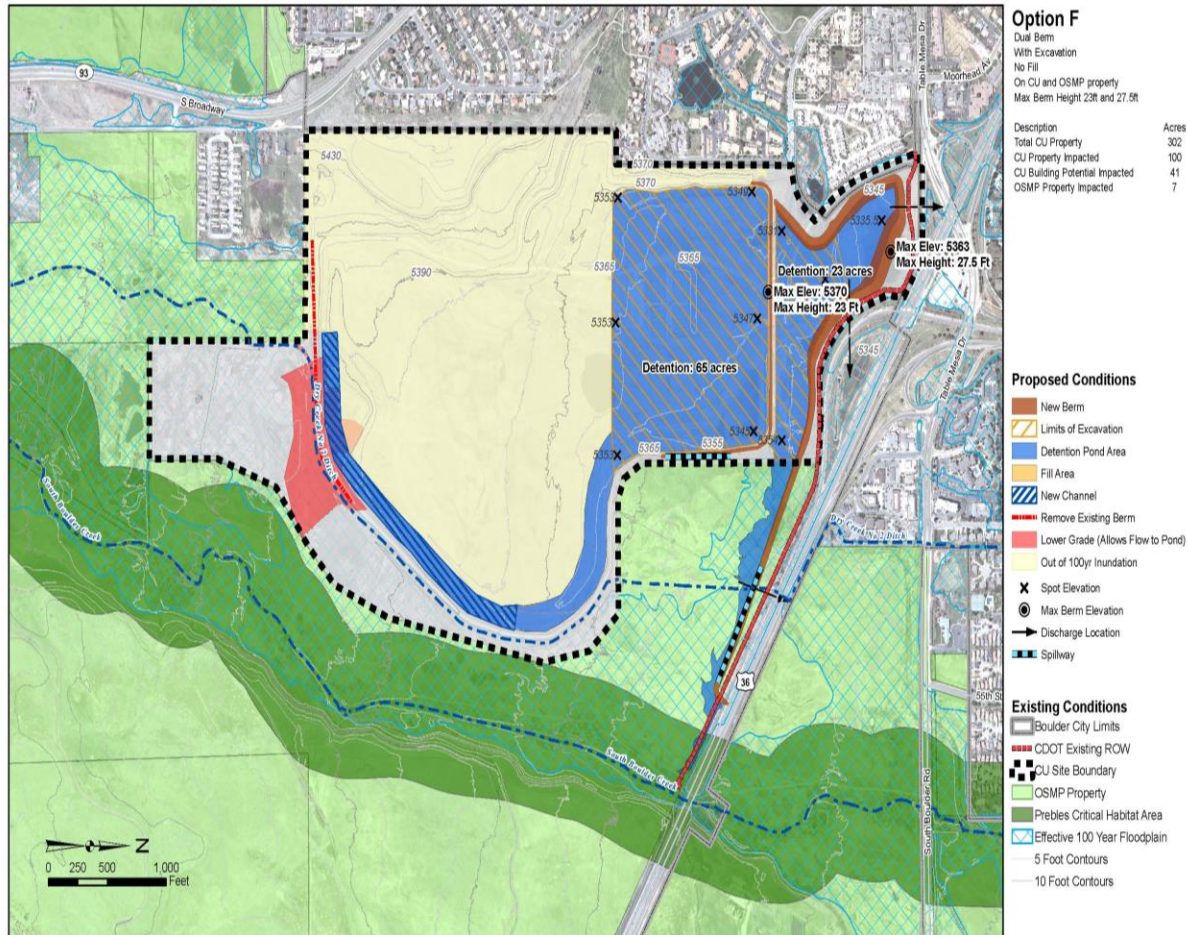
2013 Flood Event



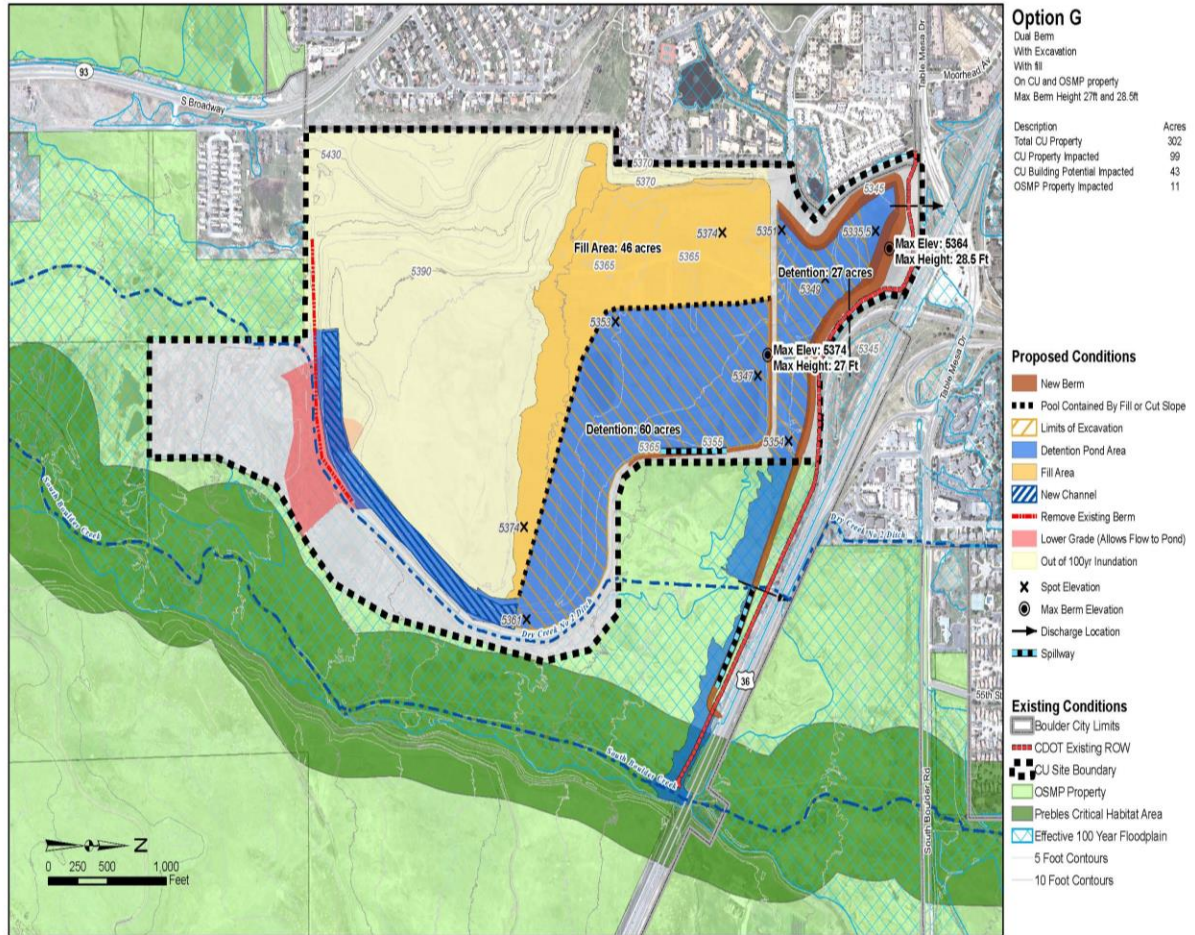
Option E – Dual Berm, no Excavation or Fill



Option F – Dual Berm, with Excavation but no Fill



Option G – Dual Berm, with Excavation and Fill

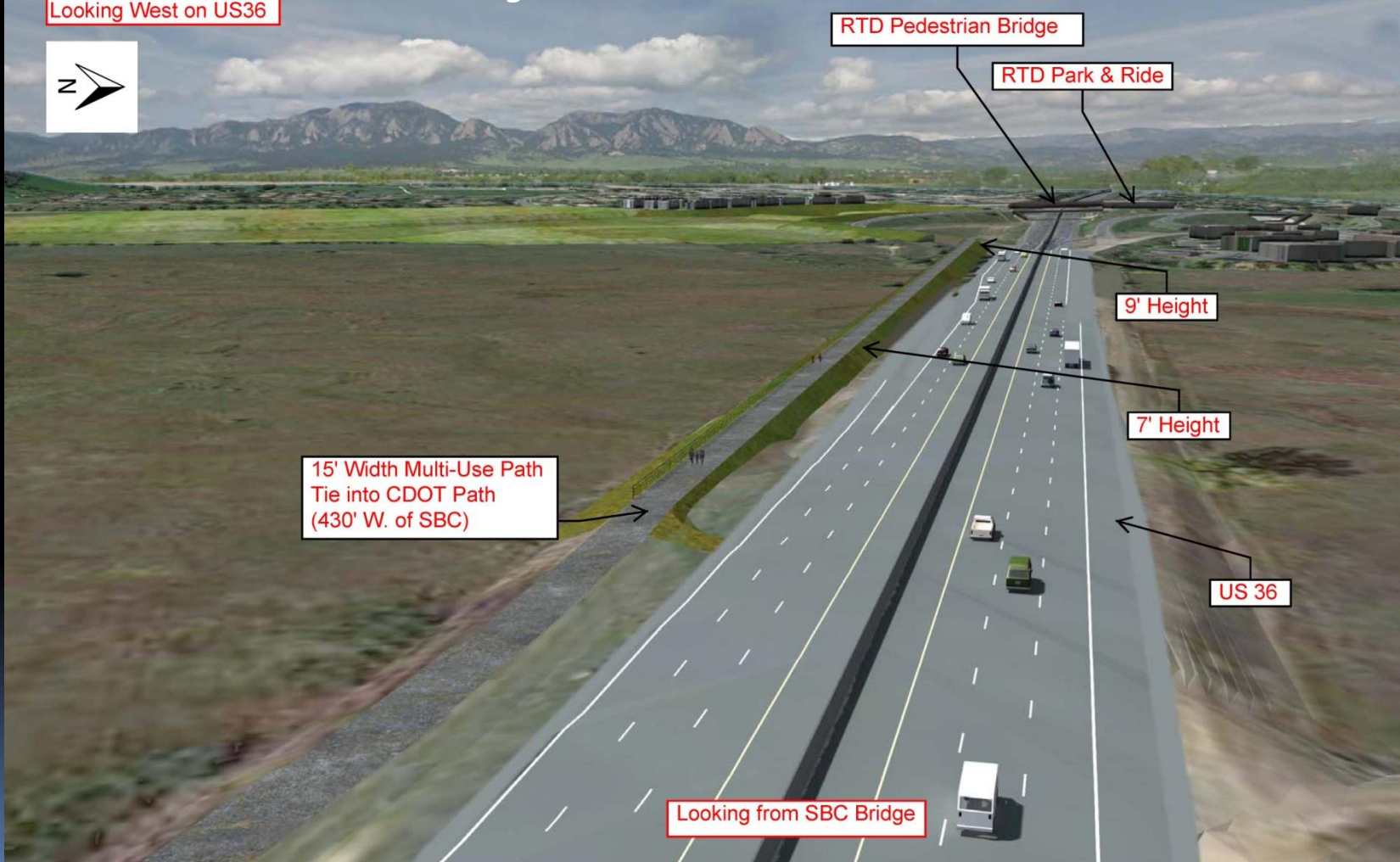


Summary of Options

Option	Total Impacts to CU Parcel (acres)	Total Berm impacts to OSMP (acres)	Total Detention OSMP (acres)	Maximum Berm Height (feet)	Est. Cost (\$millions)	Est. Benefit to Cost Ratio
A – 2014 Option	56	5	35	34.5	24.0	1.1
B - Single Berm with Excavation	90	2	5	27.5	21.5	1.2
C – Single Berm with Excavation and Fill	80	3	17.5	30.5	22.5	1.2
D – Single Berm CDOT ROW	79	0	19	29.5	22.5	1.2
E- Dual Berm no Excavation	142	1	3.5	26.5	26	1
F – Dual Berm with Excavation	100	2	5	27.5	31	0.9
G – Dual Berm with Excavation and Fill	99	0.5	8.5	28.5	34.5	0.8

Rendering of Berm and Multi-Use Path

Proposed Berm
Looking West on US36



RTD Pedestrian Bridge

RTD Park & Ride

9' Height

7' Height

US 36

15' Width Multi-Use Path
Tie into CDOT Path
(430' W. of SBC)

Looking from SBC Bridge

Rendering of Existing Conditions Proposed Detention site

Existing Conditions
Looking South



Existing CU Levee

US 36

Foothills Parkway

RTD Park & Ride

RTD Pedestrian Bridge

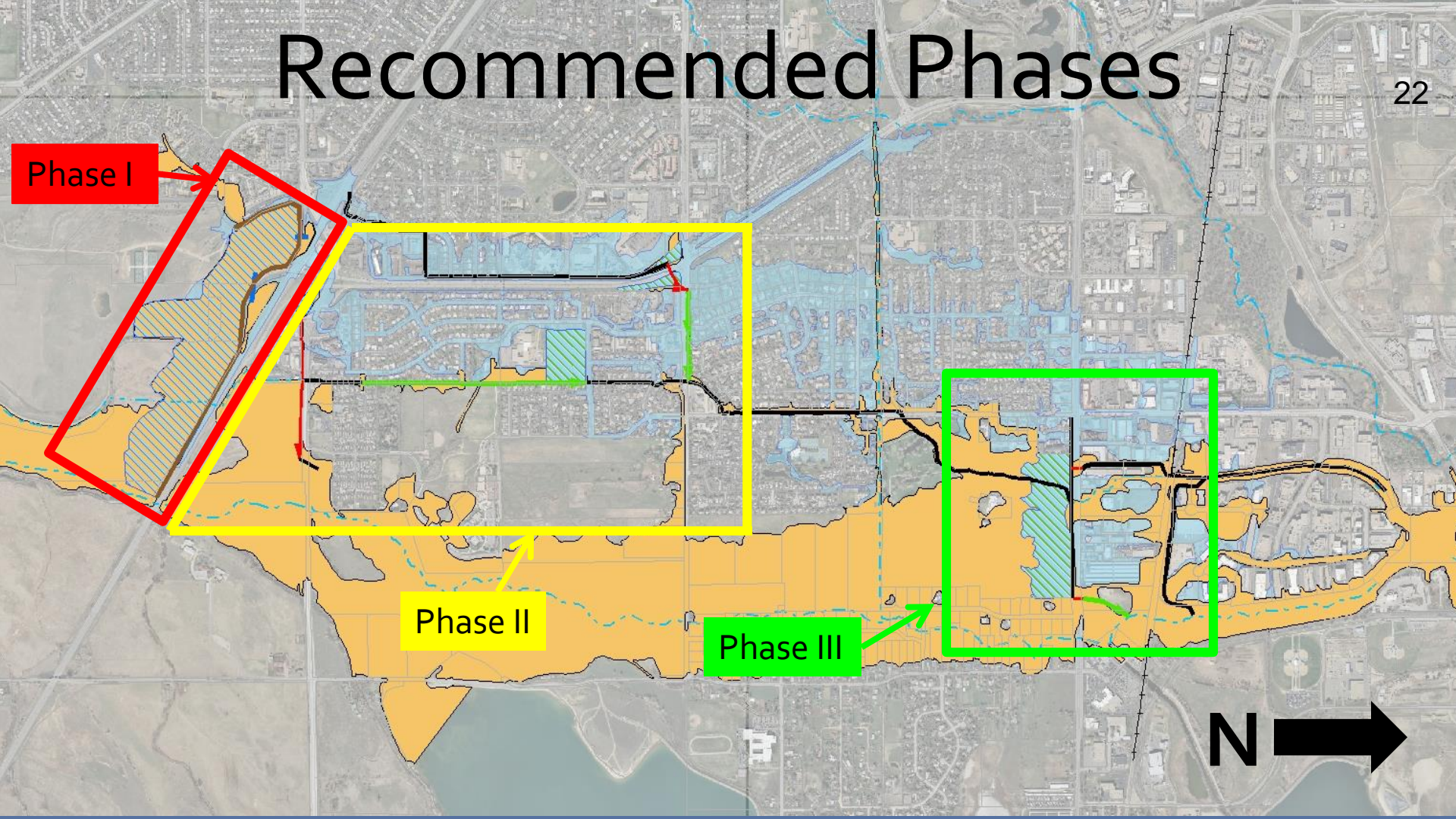


Rendering of Proposed Detention Facility

Proposed Conditions
Looking South



Recommended Phases



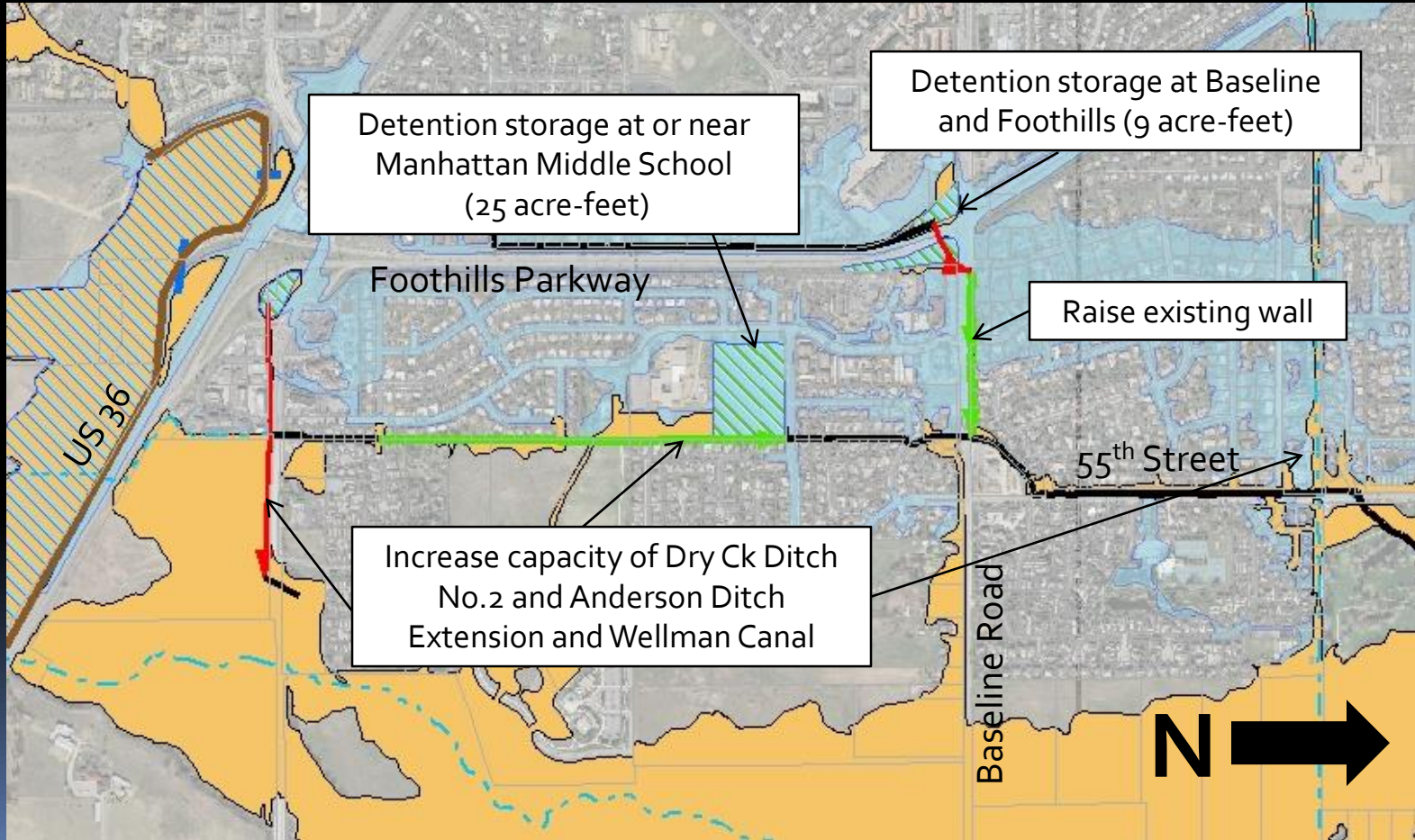
Phase I

Phase II

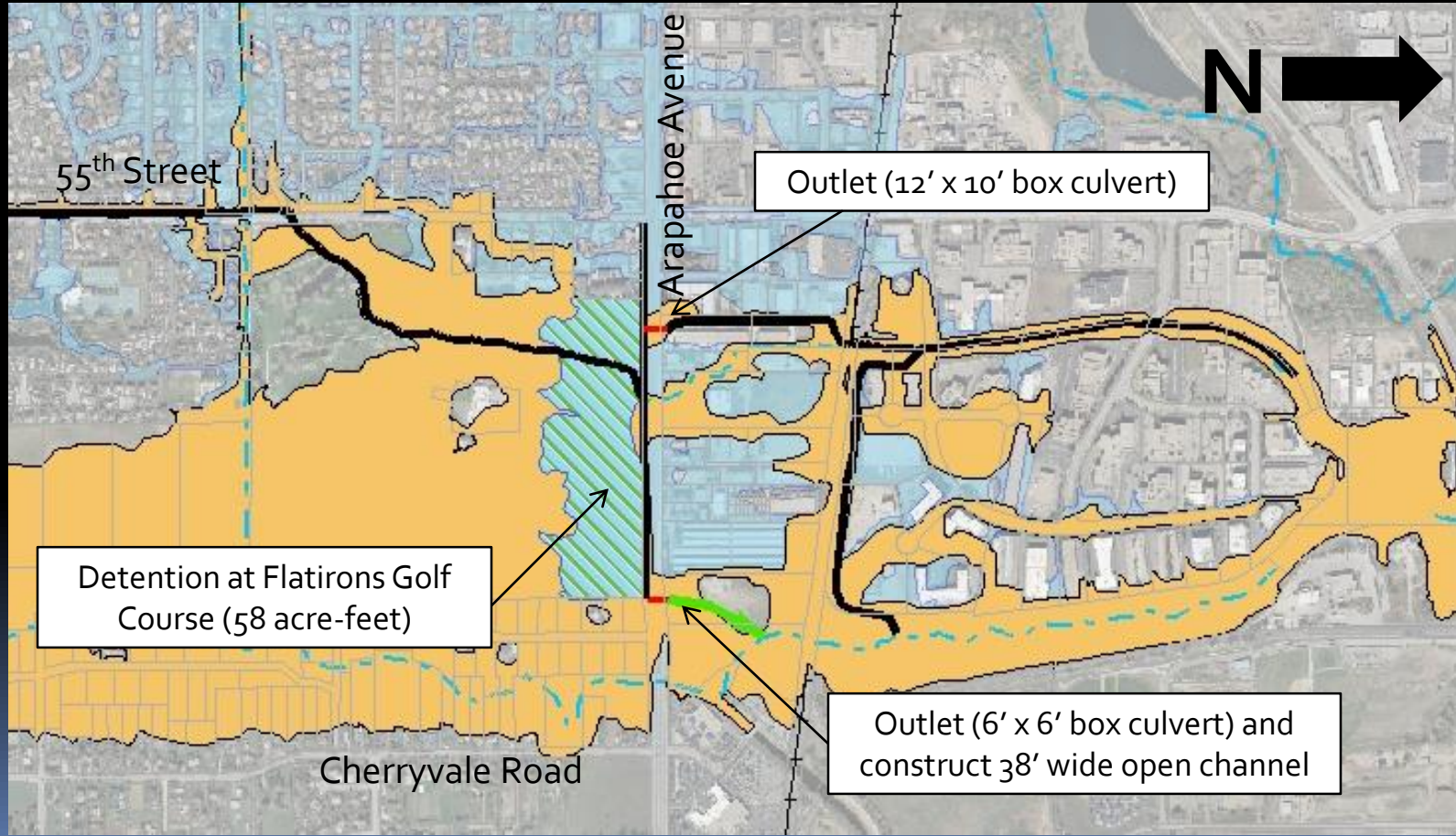
Phase III



Phase II



Phase III



2014 Environmental Impacts 25

