



East 112th Avenue and Second Creek

October 28, 2019

Purpose

- Provide update to Council on status of 112th Avenue east of Chambers (112th Avenue Phase 1)
- Provide update to Council on status of 112th Avenue west of Chambers and Second Creek (112th Avenue Phase 2)
- Review of proposed City's share of the obligations
 - A. Re-establishing the Second Creek channel
 - B. Building a creek crossing and relocating O'Brian Canal
 - C. Regional detention pond & estimated costs
 - D. Road paving
- Obtain Council's direction on the proposed improvements



112th Avenue Phase 1 Update

- Design completed and project bid
- Staff negotiated Intergovernmental Agreement (IGA) with Oakwood / Reunion Metro District
- IGA will be on November 4, 2019 Council agenda
 - Total project cost is \$11,809,164
 - City: \$5,456,717 (to be paid in 4 installments; City portion includes expanding the Buffalo Run Golf Course parking lot (\$556,978))
 - Reunion: \$5,355,548
 - SACWSD: \$996,899 (16" Non-Potable waterline)





112th Avenue Phase 2



Original Project

- Package A:
 - Design and construction of new recreation center
 - Originally proposed to be located in Second Creek Park
 - Access challenge, eagle nest, flood plain, and wetlands influenced the decision to move site to west
 - Parcel O, next to Potomac, was acquired from Catellus
 - Package A included infrastructure improvements providing access and utility services to the new recreation center
- Package B was to include infrastructure improvements on/along 112th Avenue serving the new recreation center



Infrastructure Project Overview

2017-2-13

Infrastructure Packages

Package A



Package B



New Recreation Center



Timeline of Decisions on 112th Ave.

- Original plan was to locate recreation center in Second Creek Community Park
- 2015 decision made to move it west to Parcel O
- 2017 staff presented 3 112th Ave. options to Council:
 - Alternative 1: Move 112th south to a narrow point in 2nd Creek, minimizing involvement with the FRICO canal
 - Alternative 2: Keep 112th in its current alignment and do not raise it out of the 100 yr. floodplain
 - Alternative 3: Do not connect 112th as a road, master plan as an open space with bike and pedestrian connections, finish water quality and other drainage improvements needed for Package A and Rec Center
- Council decision to suspend work on Package B



Package B

- Message about suspending work was conveyed to Shea, shortly after the 2017-2-13 Council meeting
- Later, Shea sold their interest to Oakwood Homes
- Staff met with Oakwood multiple times:
 - Oakwood & City agreed to design 112th (Blackhawk to Tower)
 - Oakwood proposed 112th construction in three phases:
 - 1st phase: Chambers Road to Parkside Drive
 - 2nd phase: Blackhawk Street to Chambers Road
 - 3rd phase: Parkside Drive to Tower
- Multiple steps needed to happen before 112th construction
- Therefore Council decided to suspend work on Package B





Ultimate Improvements

- Decide on desired alignment:
 - City does not own 112th ROW between Blackhawk Street & Chambers Road
 - Working near the O'Brian Canal must involve FRICO
- Re-establishment of Second Creek channel & crossings of O'Brian Canal & Burlington Ditch
 - Floodplain & wetlands issues
 - Regional storm water pond funding issues
 - Reunion Metropolitan District ownership of retention pond
- Oakwood plat & dedication of floodplain
- Design of regional storm water pond



Actions Since Last Update

- Staff met with Oakwood and JR Engineering
- Preliminary design completed for:
 - A. Second Creek channel restoration
 - B. Creek crossing and relocation of O'Brian Canal
 - C. Regional detention pond for Second Creek basin
 - D. Road improvements
- Staff met with FRICO, Mile High Flood Control, Oakwood and JR Engineering to discuss preliminary design



112th Avenue and Second Creek

- Project (112th Ave. Phase 2) is proposed to be split into four sub-phases:
 - A. Re-establish Second Creek channel
 - B. Build channel crossing under O'Brian Canal and relocate O'Brian Canal
 - C. Build regional detention pond with embankment
 - D. Pave 112th Avenue or build cul-de-sacs on both sides of the valley



Est. Costs of Improvements

Sub-Phase	Estimated Total Cost	Estimated City Share	Estimated Construction
Re-establish Second Creek channel	\$6.0M	\$6.0M	222 days for FRICO, 404/401, & CLOMR permitting 188 days for 2020 construction
Build creek crossing under relocated O'Brian Canal	\$6.1M	\$6.1M	215 days in 2021
Build regional detention pond with embankment	\$9.8M	\$9.8M	215 days in 2022 - 2023
Pave 112 th Avenue to cul-de-sacs on both sides	\$6.2M	\$2.4M	165 days in 2023
Pave 112 th Avenue between cul-de-sacs on both sides	\$1.7M	\$850,000	85 days in 2023 or later

Available Funding

Sub-Phase	Estimated City Share	Available Funding	Funding Sources
Re-establish Second Creek channel	\$6.0M	\$6.0M	\$3M NRDS grant \$3M 2K funds in "Package B"
Build creek crossing under relocated O'Brian Canal	\$6.1M	\$6.1M	\$3,226,637 2K funds in "Package B" \$1.8M Second Creek Basin \$1,037,410 in CIPP
Build regional detention pond with embankment	\$9.8M		TBD
Pave 112 th Avenue to cul-de-sacs on both sides	\$2.4M		TBD
Pave 112 th Avenue between cul-de-sacs on both sides	\$850,000		TBD



Phasing Decisions

- Council's decisions can also be split into four sub-phases:
 - A. Re-establish Second Creek channel
 - B. Build channel crossing under O'Brian Canal and relocate O'Brian Canal
 - C. Build regional detention pond with embankment
 - D. Pave 112th Avenue or build cul-de-sacs on both sides of the valley
- Recommend proceeding with phases A & B
- Start setting aside money for phase C





Discussion or Questions?

