



Bexar County Public Works Department Flood Control Division



Perrin Beitel Flood Control Project
(SC-9)

January 19th, 2017



Agenda



- **Introductions**
 - Bexar County Flood Control (Engineering and PR)
 - Office of the County Manager (Public Information Officer)
 - Bexar County Flood Control (Construction Management Team)
 - Construction Inspections (Freese and Nichols, Inc.)
 - Material Testing (HVJ Associates, Inc.)
 - Contractor (Curran Contracting Company)
- **Program Background**
- **Project Details and Construction Schedule**
- **Q&A**

Bexar County Flood Control Program

- 10-year, \$500 Million Capital Improvement Program
- Currently in year 10 of 10, with numerous projects heading into or already in construction phase.
- The Texas Hill Country is known as flash flood alley, with over 1,000 ft. elevation drop across Bexar County.
- Flood Control program works with local municipalities and agencies to deliver projects that alleviate flooding across the region.
- Half of all flood deaths occur in vehicles.
- Flash Flood = fast flooding and people are caught off-guard. Turn around, don't drown!





Project Details – Overall Map



NOTES
 1. Construction phasing will be sequenced to mitigate impacts to bird migration activities and facilitate the establishment of vegetative plantings.
 2. Excavation of a trail trench will be constructed to accommodate a future hike and bike trail.





Project Details - Benefits



- Increasing the capacity of Beitel Creek by **grading and reshaping** its course from Vicar Dr. to 1,800 feet downstream of the Perrin-Beitel Bridge, which will **remove structures** downstream of Perrin Beitel Bridge and the approaching roadway from the current 100-year floodplain
- Providing additional stormwater retention/flow diversion capacity by building a **bypass channel** in the existing 100-year floodplain between Beitel Creek and Briar Glen Drive
- Salado Creek will benefit from **improved aquatic/ecologic function** as a result of drainage enhancement to its tributary, Beitel Creek



Project Details - Benefits



- Protection to the channel bottom and banks by implementing **erosion control measures** such as concrete and rock rip-rap, native species channel seeding, tree and aquatic species planting
- Reconstruction of Perrin-Beitel Road from the Beitel Creek Bridge to 500 feet north of Vicar Dr. to include:
 - Grading, full depth pavement; signage and markings; storm drain systems; sewer, water and gas mains; traffic signal improvements at Perrin-Beitel Road and Vicar Dr.; replacement and improvement of High Water Detection System at Vicar Dr. and Beitel-Creek

These roadway improvements will **increase public safety** for vehicular traffic along Perrin Beitel

- **Phase 1 (road, utility and channel work)**

- Beitel Creek dewatering activities and removal of approx. 50% of invasive species
- New traffic signal at Perrin Beitel and Vicar
- Sanitary sewer main along Beitel Creek and Perrin Beitel. Temporary detour widening
- Partial closure of Perrin Beitel, Briar Glen, and Vicar either overnight or on the weekend – Perrin Beitel open to one lane NB traffic/other traffic to use detour routes
- Western lane will be closed and traffic will be shifted to the eastern side of Perrin Beitel (11-ft lane in each direction)

- **Phase 2A – 2C (channel work)**

- Includes the following activities:

- Dewatering

- Beitel Creek and bypass channel grading

- Planting non-wetland species and seeding

- Cofferdam removal and planting of wetland species

- Installation of anchored turf reinforced mat and rip rap for erosion control

- **Phase 3 (utility work)**

- Includes the construction of 16" water main along Perrin Beitel and 8" water mains along Briar Glen and Vicar Dr.

- Water main along Perrin Beitel will be constructed in sections to allow one lane of traffic in each direction at all times

- **Phase 4 (1 – 2) (road, traffic signal and drainage work)**
 - Construct NB portion of Perrin Beitel and Vicar Dr (pavement, curbs, sidewalks, driveways, storm drains and inlets)
 - One lane in each direction on the eastern portion of Perrin Beitel
 - Close Vicar Dr to through traffic. Overnight or weekend closure of Perrin Beitel for work across the open lanes, only when necessary
 - New traffic signal at Perrin Beitel and Vicar Dr will be completed

- **Phase 5 (road work)**

- Construct EB Briar Glen and SB Perrin Beitel
- Reduce Perrin Beitel to one lane NB and one lane SB
- Close Briar Glen to EB traffic

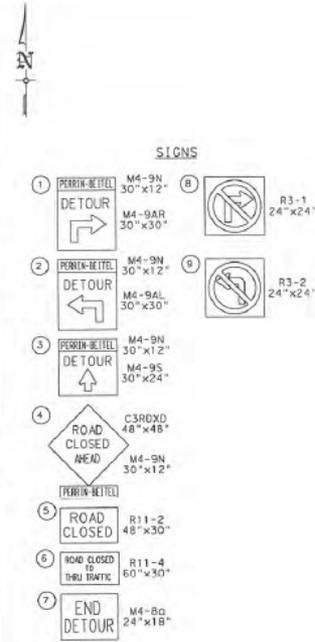
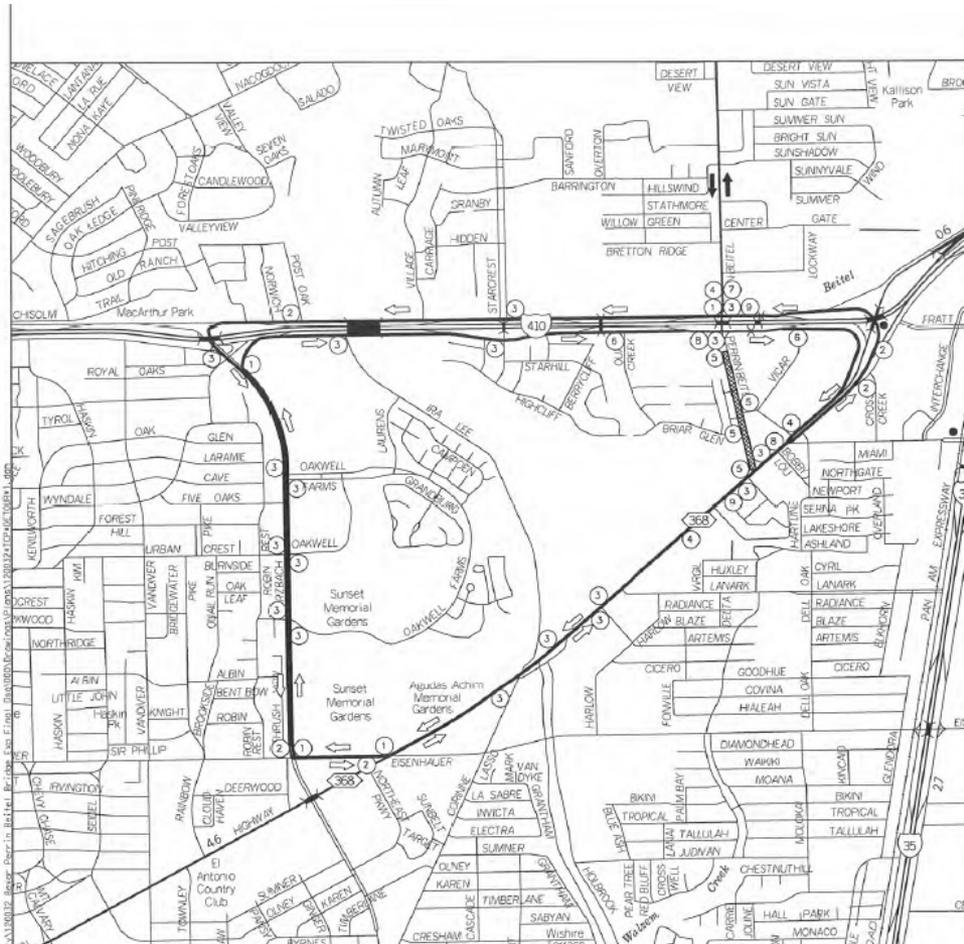
- **Phase 6 (road work)**

- Construct WB Briar Glen and remaining SB Perrin Beitel
- Reduce Perrin Beitel to one lane NB and one lane SB
- Close Briar Glen to WB traffic

Project Details - Phasing



- Temporary Detour Routes



- **Phase 7 (channel and road work)**
 - Remove remaining invasive species within project area
 - Construct final pavement overlay using temporary lane closures
 - Install topsoil, sod, hydromulch, signs, permanent pavement markings, trees, etc.



Project – Construction Schedule



- Construction *start* anticipated February 2017 and estimated *completion* by August 2018

Questions?



General Information



Contact Info

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*This presentation will be posted on the website