



Bexar County Public Works Department Flood Control Program



SC-4 Knoll Creek
Drainage Improvements

May 29, 2014



SC-4 Knoll Creek



Meeting Agenda

- Introductions
- Program Background
- Project Overview
- Other Considerations
- Q&A



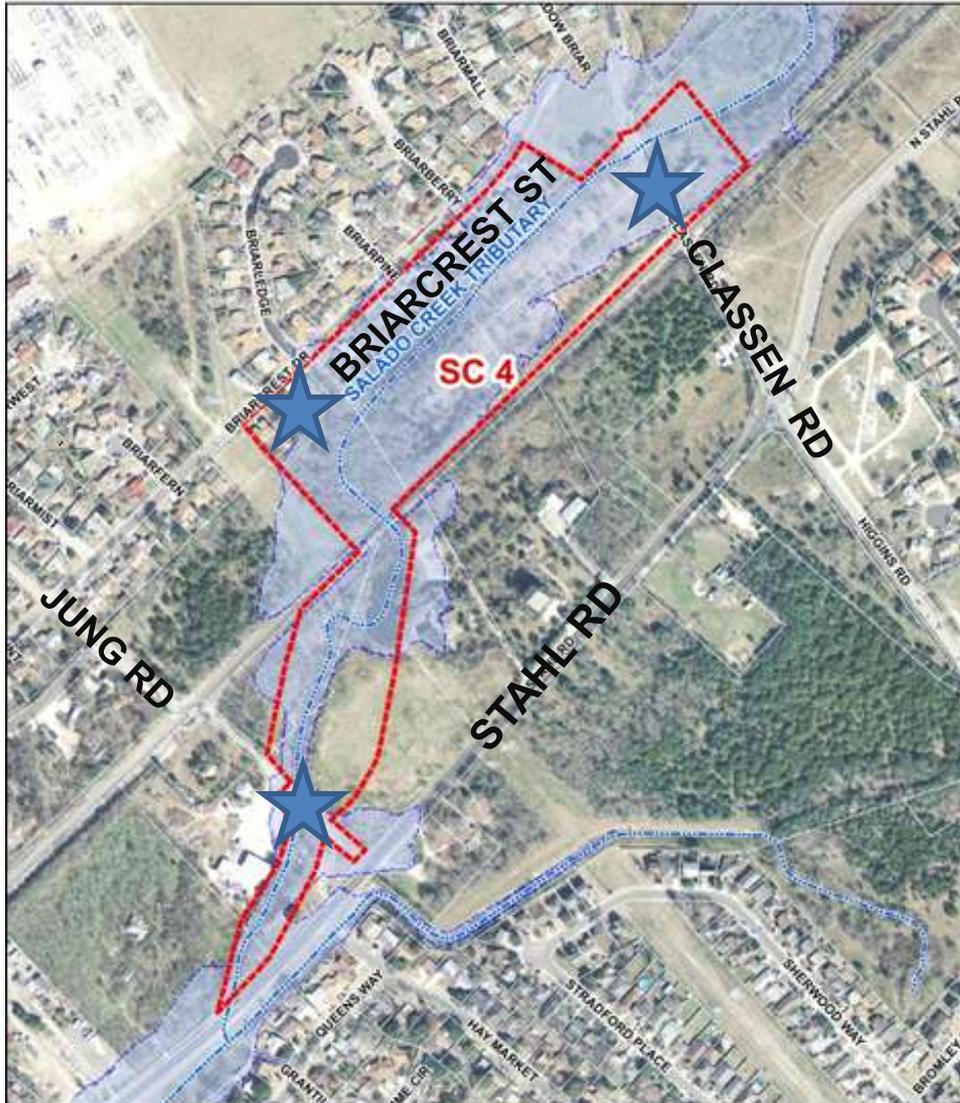
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Bexar County Flood Control Program

- 10-year, \$500 Million Capital Improvement Program
- In year 7 of 10, with numerous projects heading into construction phase.
- The Hill Country is known as flash flood alley, with 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.
- Turn around, don't drown!





Project Overview

- Eliminating low water crossing on **Jung Rd**, near Stahl Rd.
- Eliminating low water crossing on **Classen Rd.**, between Briarcrest St. and Stahl Rd.
- Enhancing drainage off of **Briarcrest St.**, between Jung Rd. and Classen Rd.
- Drainage channel improvements at new culvert crossings and along Briarcrest St.
- Bexar County Flood Control working with City of San Antonio Transportation and Capital Improvements (TCI) department.
- Design Consultant: San Antonio Design Group, Inc. (SADG)
- Estimated Construction Schedule: September 2014 to September 2015
- Estimated Construction Cost: \$4.1 Million



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Existing low water crossing at **Jung Rd.** regularly experiences flooding during storm events. New culvert bridge will allow 100-year (1% annual chance) storm event to cross under roadway. Flood study shows that 4.4 ft. of water will top the existing roadway during the 100-year (1%) storm. Less than 6" of water can sweep people off their feet and wash cars downstream. Photos from May 25, 2013 which was a 5-year (25%) to 25-year (4%) storm.



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Jung Rd. low water crossing. Picture taken on May 26, 2014.



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Culvert constructed at another Bexar County Flood Control project that is similar in size and design as to what will be constructed at the low water crossings at **Jung Rd.** and **Classen Rd.**





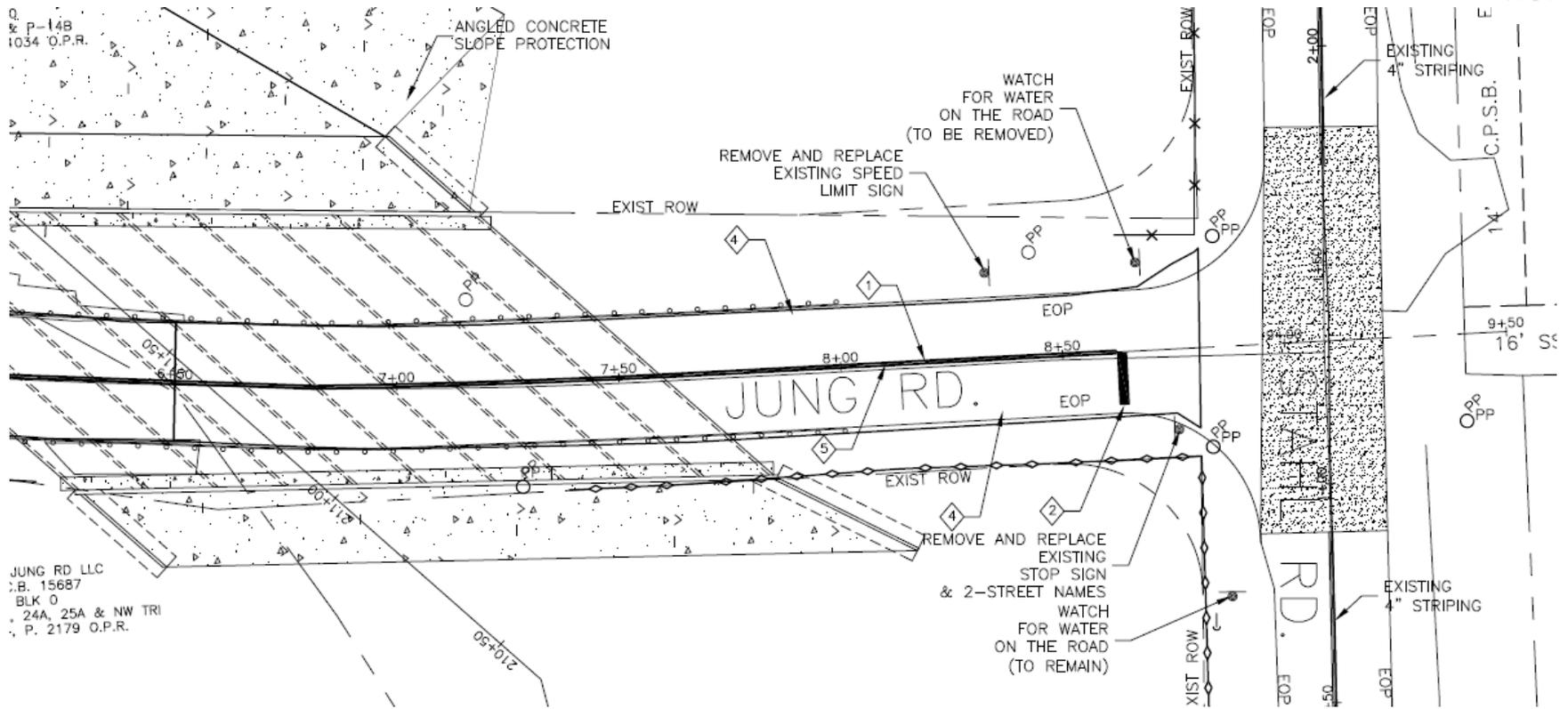
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Jung Rd: Project Layout (2 of 2)



TRUE
NORTH



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Existing low water crossing at **Classen Rd** regularly experiences flooding during storm events. New culvert bridge will allow 100-year (1% annual chance) storm event to cross under roadway. Flood study shows that 4.1 ft. of water will top the existing roadway during the 100-year storm. Photo from May 25, 2013 which was a 5- to 25- year storm.



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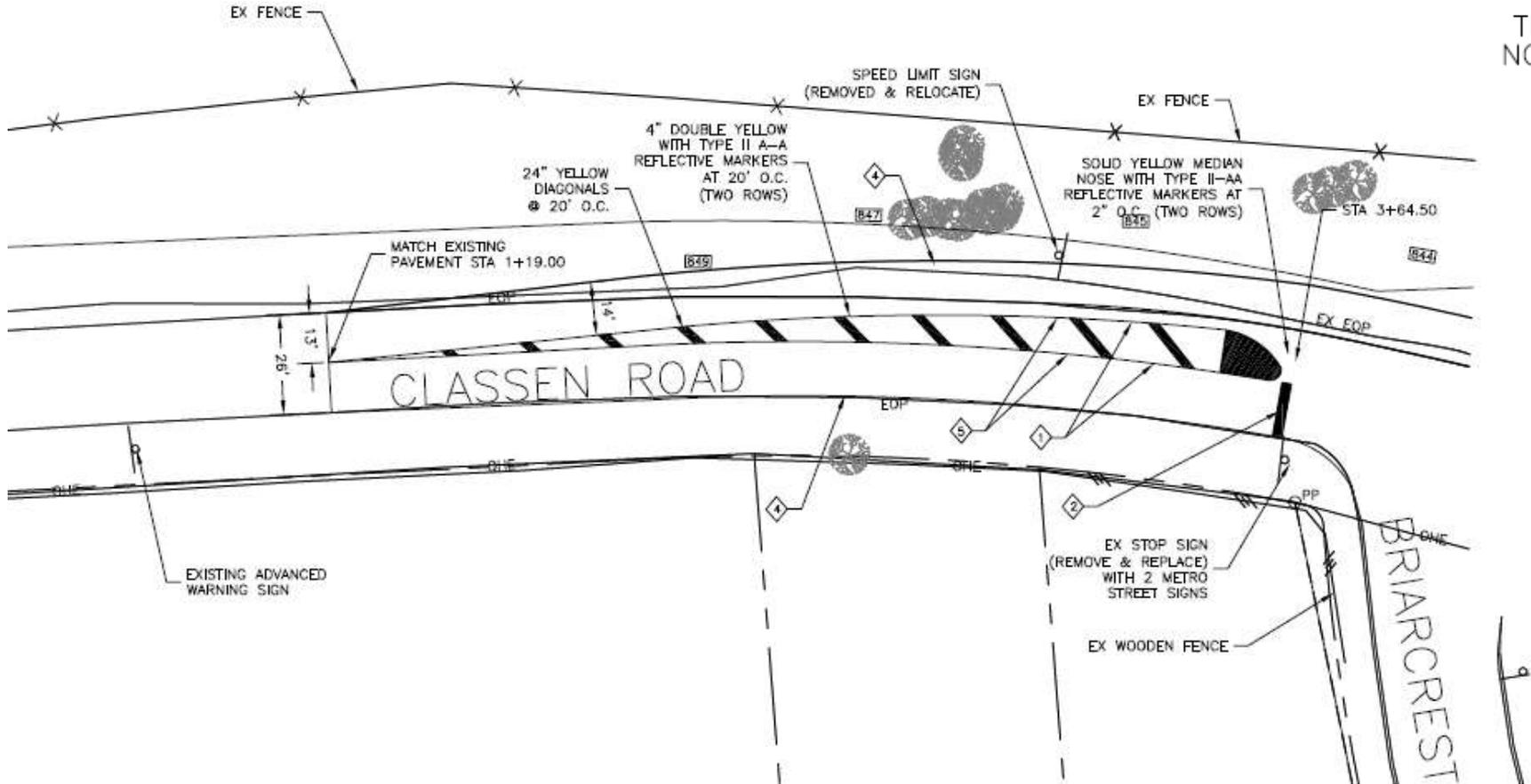
Culvert constructed at another Bexar County Flood Control project that is similar in size and design as to what will be constructed at the low water crossings at Jung Rd. and Classen Rd.



Classen Rd: Project Layout (1 of 3)



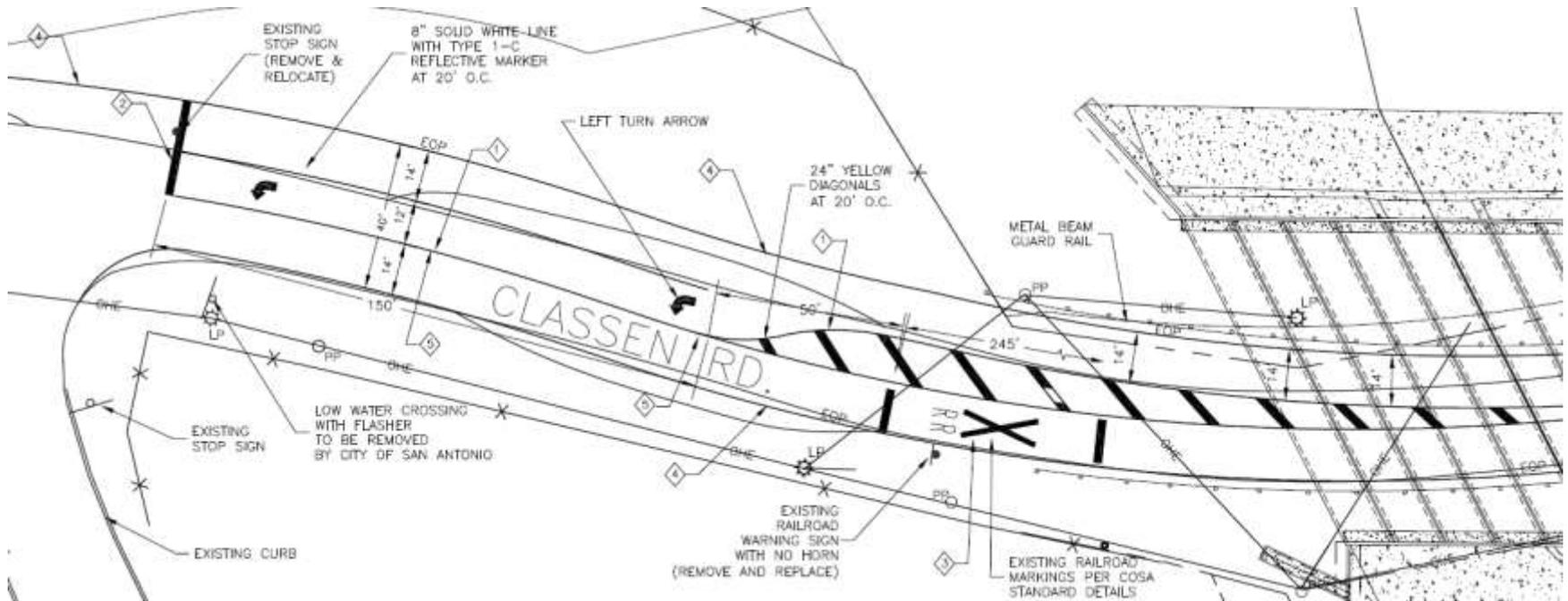
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Classen Rd: Project Layout (2 of 3)



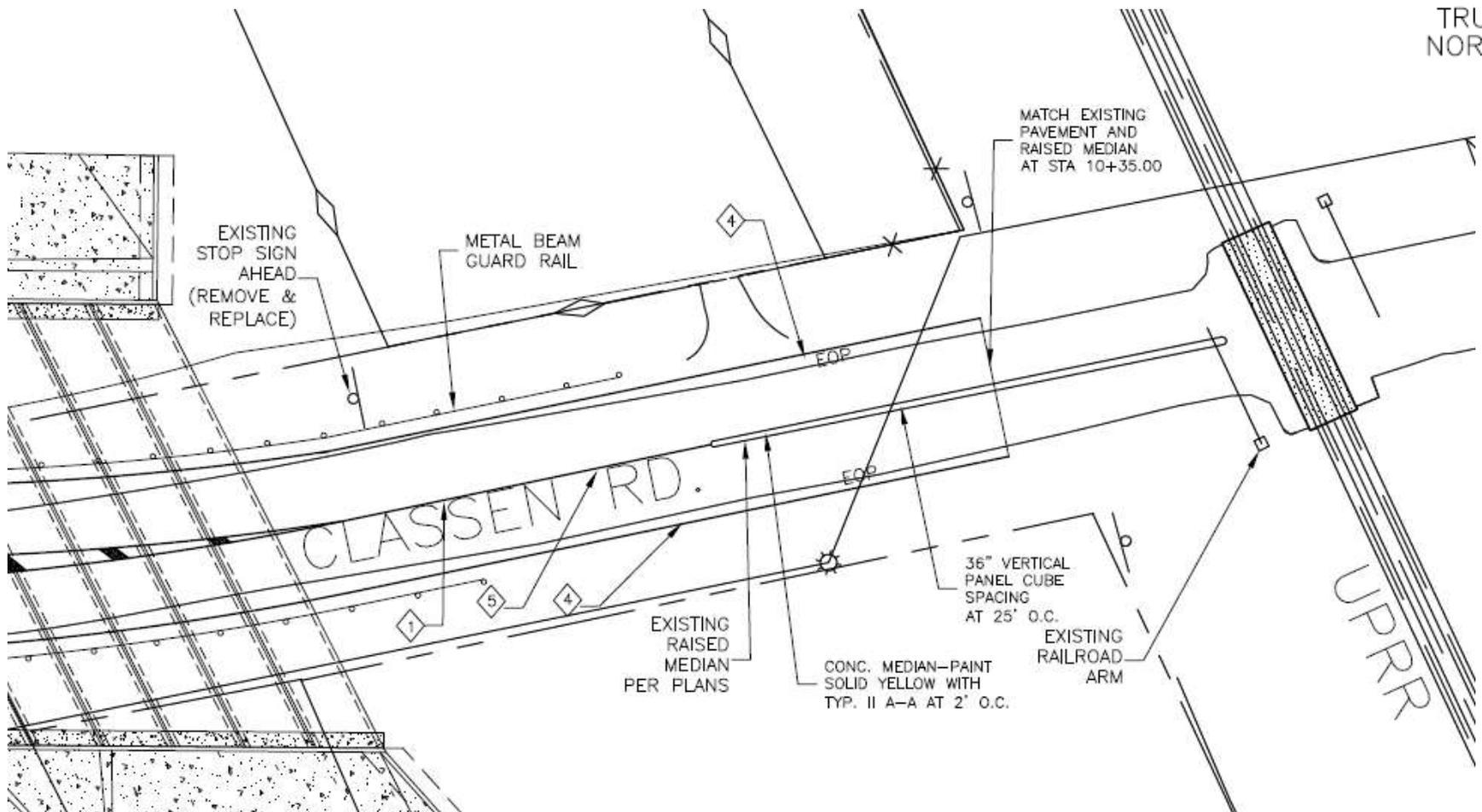
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Classen Rd: Project Layout (3 of 3)



TRUE
NORTH



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Typical view along **Briarcrest St.**, between Jung Rd. and Classen Rd, where water accumulates along roadway. BCFC and City of San Antonio Transportation and Capital Improvements (TCI) department are joining efforts to improve drainage on Briarcrest St. as part of this project.





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Drainage channel on the north side of **Briarcrest St.**, near Briarledge St., drains directly onto the street. BCFC and City of San Antonio Transportation and Capital Improvements (TCI) department are joining efforts to improve drainage on Briarcrest St. as part of this project.

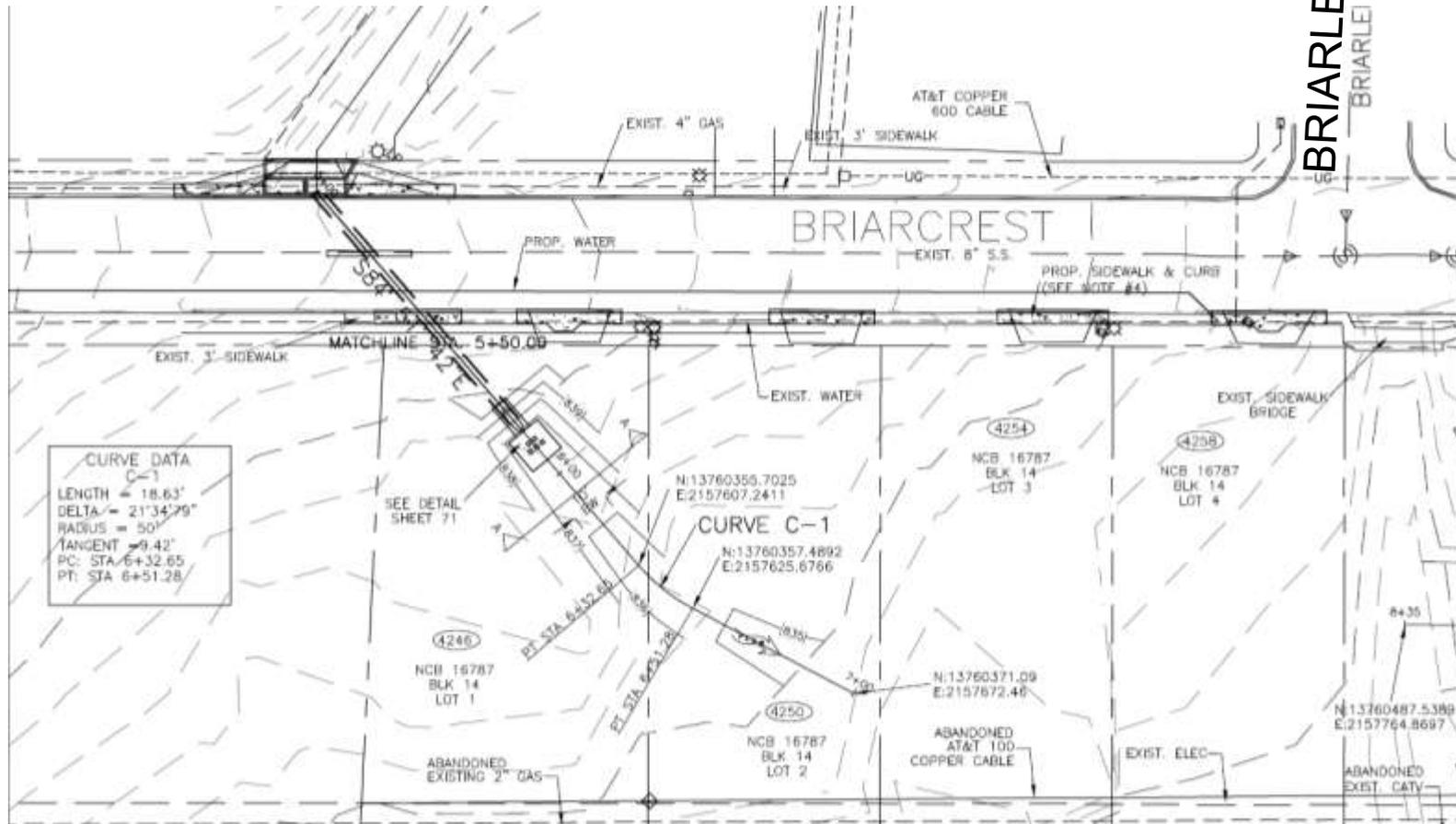




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Briarcrest St: Project Layout (1 of 4)





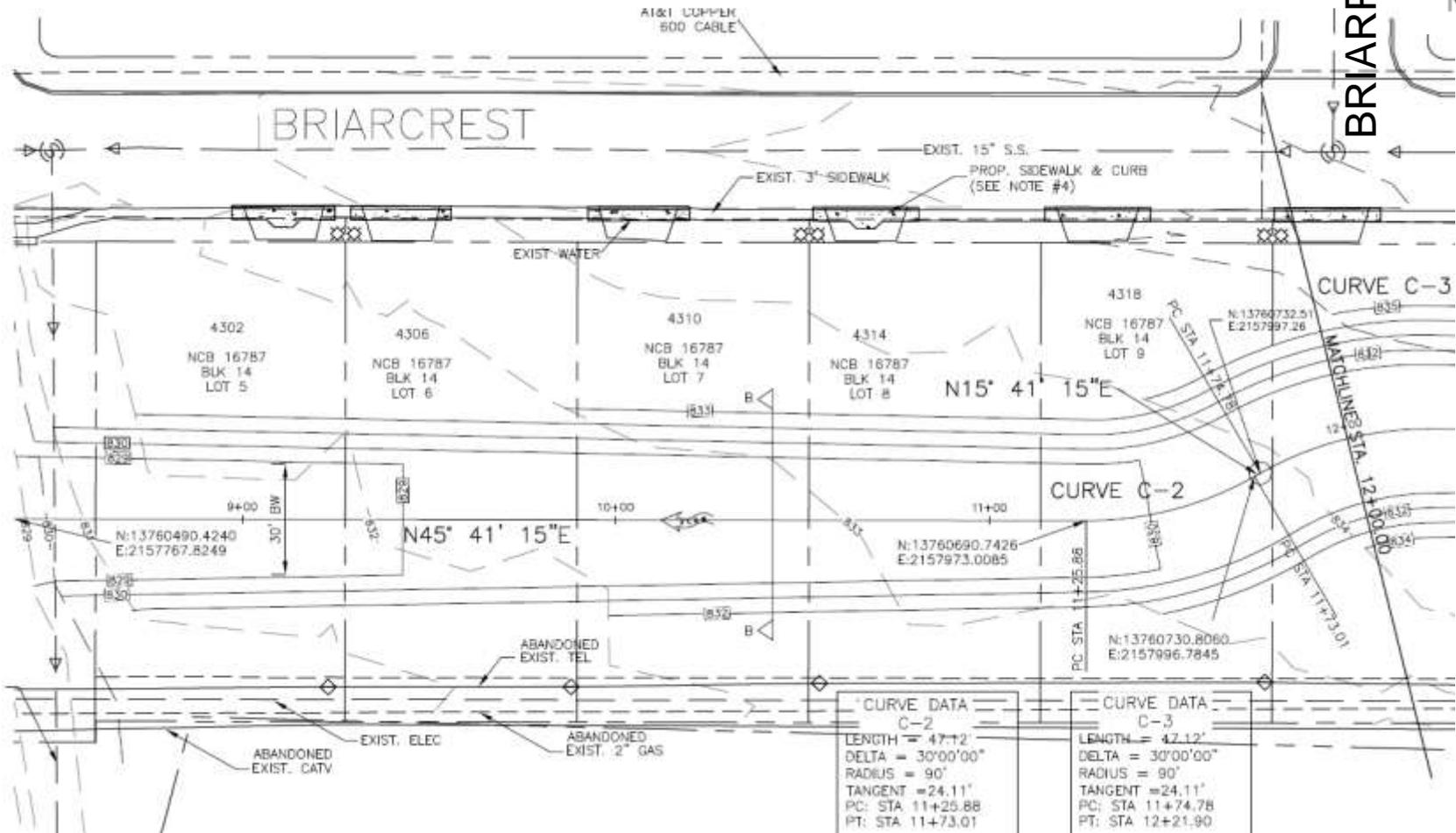
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Briarcrest St: Project Layout (2 of 4)



TRUE NORTH

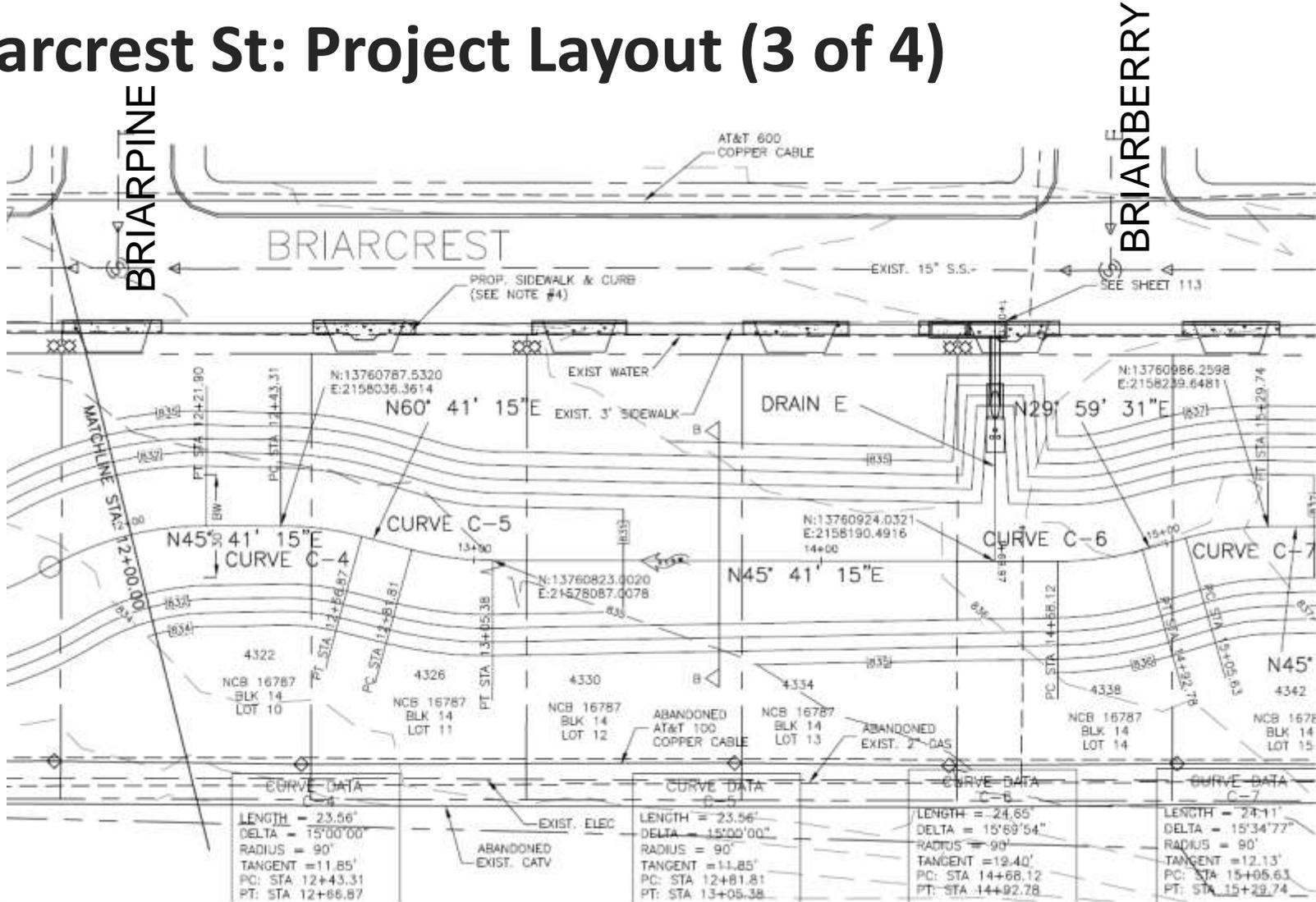




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Briarcrest St: Project Layout (3 of 4)





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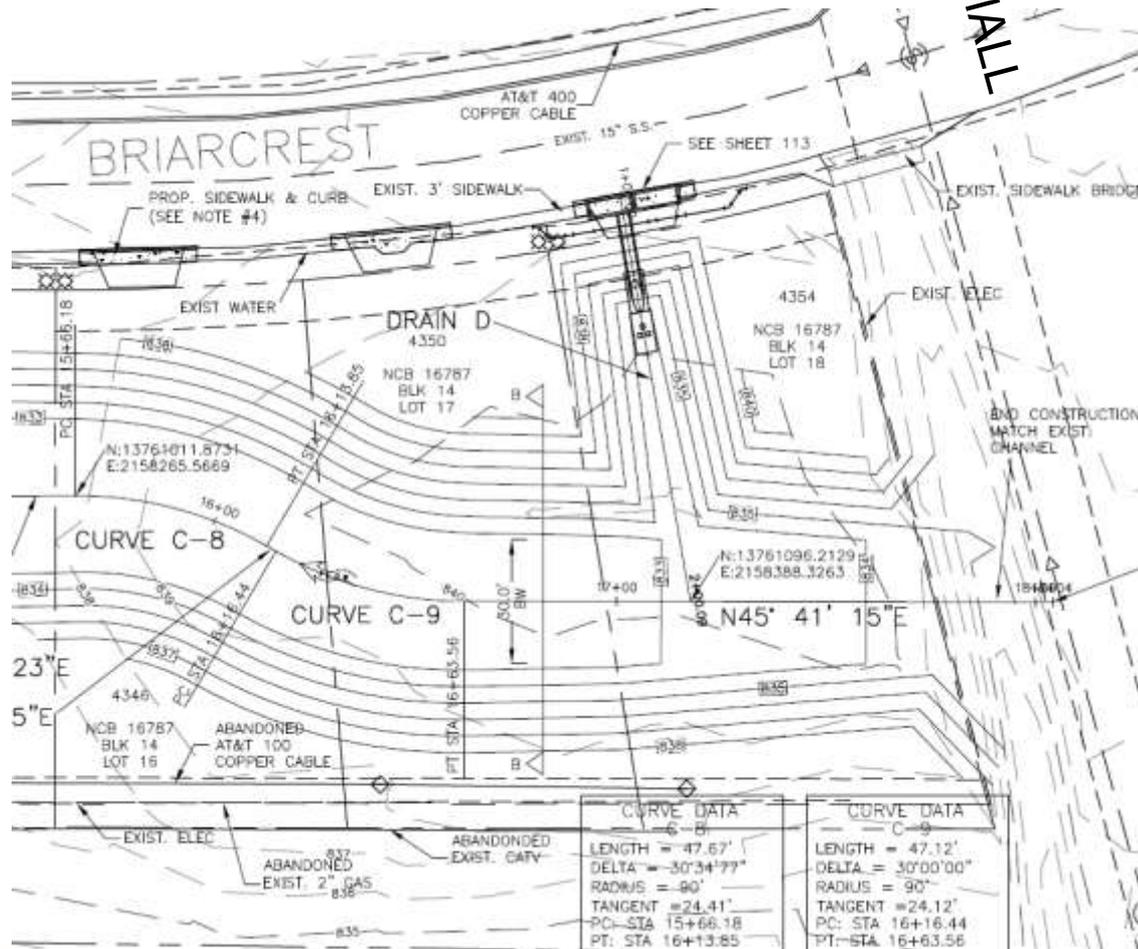


Briarcrest St: Project Layout (4 of 4)

BRIARMALL



TRUE NORTH





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BEXAR COUNTY PUBLIC WORKS
FLOOD CONTROL DIVISION
CAPITAL IMPROVEMENT PROGRAM



KNOLL CREEK DRAINAGE IMPROVEMENTS

ILLUSTRATION BY
HORIZON
DESIGN AND DEVELOPMENT
KERES HYSTER DESIGN



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Other Considerations

- Improvements, including greenway and drainage swale along Briarcrest St. will become property of, and maintained by, City of San Antonio.
- Utility relocations (CPS, SAWS, Telecoms) will be necessary to accommodate the improvements.
- Real Estate acquisitions are still underway for necessary drainage easements in proximity to the channel improvements.
- Project will be constructed in phases and detours will be utilized when necessary.



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Construction Phasing

– Phase 1

- Construct drainage improvements along **Briarcrest St.**
 - Briarcrest St. remain open during construction activities.
 - Construction duration is approximately 5 months.
- Construct **Jung Rd.** drainage improvements.
 - Road closure
 - » Detour Knollcreek Dr. to Classen Rd to Stahl Rd
 - Construction duration is approximately 6 months.
 - Closure of Jung Rd allows for shorter construction duration and reduced project cost.



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Construction Phasing

– Phase 2

- Construct **Classen Rd.** drainage improvements
 - Classen Road Closure
 - » Detour through Knollcreek Dr. to Jung Rd to Stahl Rd.
 - Construction duration is approximately 4-6 months.
 - Closure of Classen Rd. allows for shorter construction duration and reduced project cost.

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- Next Steps:
 - Gather your feedback
 - Continue design coordination
 - Next community meeting prior to construction (Date TBA)
- Please fill out comment sheet
- Please visit www.bexarfloodcontrol.org for updates
- Questions