

## Castell Avenue Team



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Drainage



Urban Design & Community Engagement
(Overland Partners)



Landscape and Architecture









### Kimley-Horn's Approach to South Castell Avenue

#### **Community Engagement**

## Phase 1 Data Collection and Engineering Analysis

- Survey
- Drainage Issues and Solutions
- ► Traffic and Parking

## Phase 2 Identify Basic Design Parameters

- ▶ Walkable
- ► Safe/comfortable
- Authentic/vibrant
- **▶** Connected

## Phase 3 Design the Elements

- Visualizations
- Preliminary Schematic& Engineering Report
- ► Cost Estimate





## Engagement Strategy & Techniques

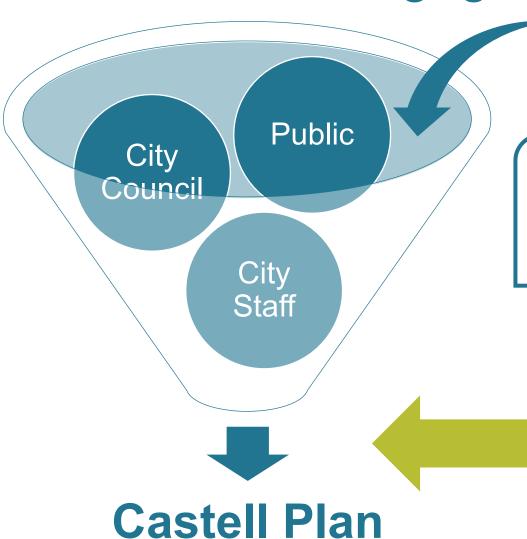
- 1. Mine Past Engagements
- 2. Corridor Walk
- 3. Meetings
- 4. Community Event







## Stakeholder Engagement



Public Engagement Information How do you bring together varied viewpoints from public, council, and staff?

Presentation to Stakeholders







# Phase 1: Data Collection and Engineering Analysis

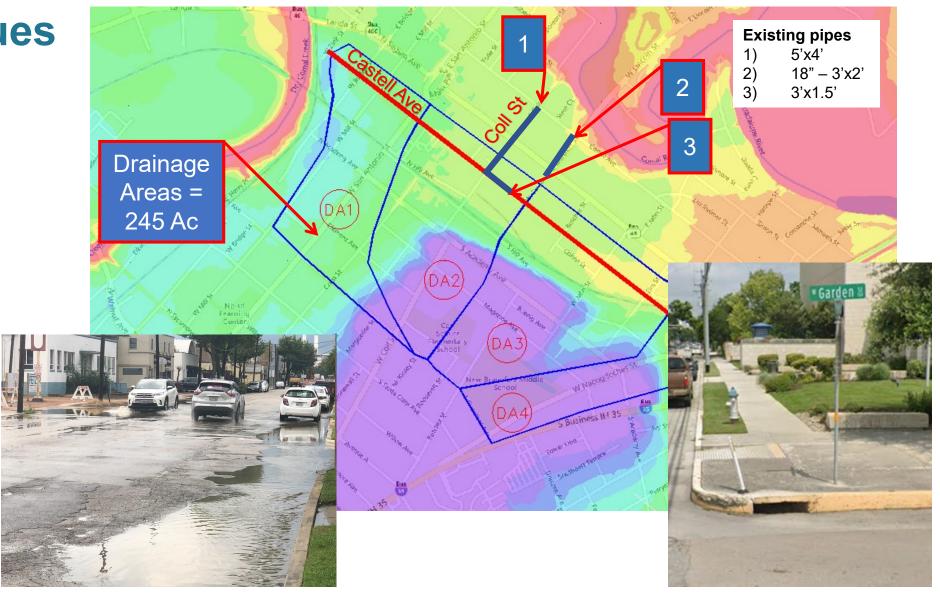
- Survey
- Drainage Issues and Solutions
- Traffic and Parking





### **Drainage Issues**

- Tailwater at Comal
- Large OffsiteDrainage Areas
- Steep to Flat
   Topography in
   Project Area
- Undersized Outfall Pipes
- Insufficient and Undersized Inlets
- Deteriorated Pavement







### **Drainage Solutions**

- Model H&H Consider 2D Modeling Approach
- **Analyzes Overland Flow and** Volume
  - Makes problem areas more apparent
- Analyze proposed water ponding in ROW
- Drainage Criteria compliance
- **Unforeseen Adverse Impacts**
- Efficacy in value engineering



Ex. 2D Model Output

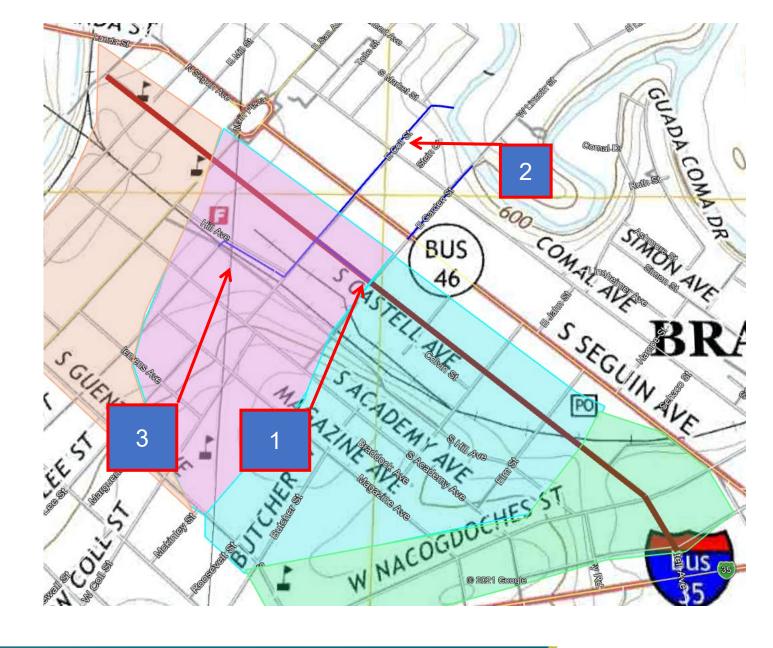




### **Drainage Solutions**

#### Possible Solutions

- Design to CoNB Drainage Criteria Inlets and Pipes
- 2) Evaluate and Recommend Upgrades to downstream pipes:a) Phased Approach with Alternatives
  - with respect to Budget
- 3) Capture Offsite Stormwater
- 4) Low Impact Development
- 5) Underground Detention









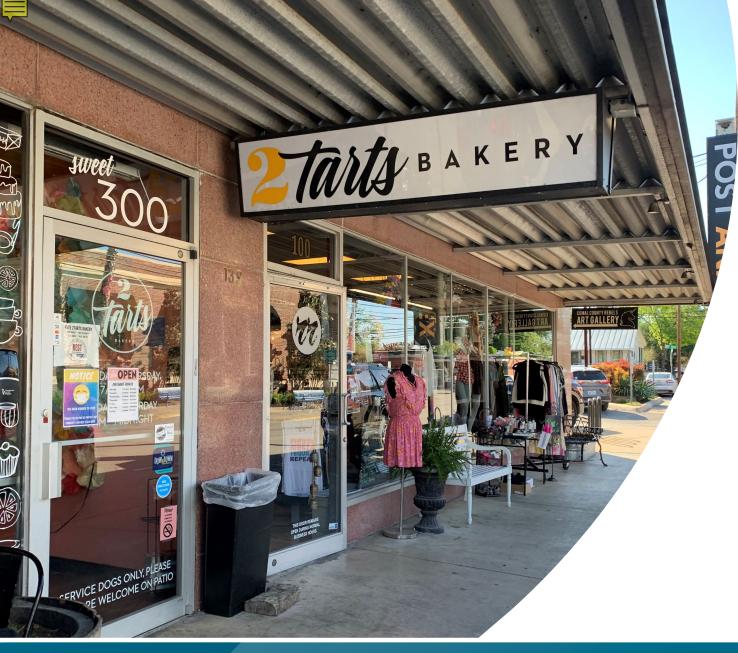
# Traffic and Parking

#### Sight Distance

- Bulb Outs. Utilize the edge parking space for enhancements
- Speed Management
  - Design for Pedestrians with Gateways and Traffic Calming
- Curbside Management
  - On-street parking is valuable and should be purposeful







# Phase 2: Identify Basic Design Parameters

- Walkable
- Safe/comfortable
- Authentic/vibrant
- Connected







## Approach

- Build on prior planning efforts.
- Co-create Placemaking and Urban Design strategies through stakeholder engagement.
- Design a complete street that improves pedestrian safety and comfort, enhances connectivity, establishes key gateways, and fosters a more vibrant downtown.





## **District Concept**

- Establish a series of experiences and nodes of activity that reflect the authentic character zones of S. Castell.
- Curate a high-quality public realm that connects existing historic and cultural assets and reinforces development opportunities.













### Landscape Influence Zones

- **Downtown Core**
- Municipal
- Neighborhood Mixed













**Downtown Core** 







Municipal







**Neighborhood Mixed** 













## Nodes



**San Antonio Street** 



**Garden Street** 



**Business IH-35** 







### **Shared Street**

- A shared street is designed to emphasize pedestrian mobility by slowing traffic speeds using pedestrian volume, street design, landscaping, lighting, and material selections to help influence driver behavior and contribute to the quality of place.
- The shared street could also be closed to vehicular traffic for special events and festivals.
- Drainage Evaluation
- Water Quality
- Material Type











# Phase 3: Design the Elements

- Visualizations
- Preliminary Schematic & Engineering Report
- Cost Estimate







Existing (Looking north from Bufford St.)



#### Pedestrian Alley Concept



Rehabilitate alleys or make new connections to provide pedestrian-priority connections to shops and restaurants

















### **Adjacent Development Collaboration**

Worked with Babe's to Create Outdoor Seating





**Before** 



**After** 









**Pedestrian and Motorist Wayfinding** 



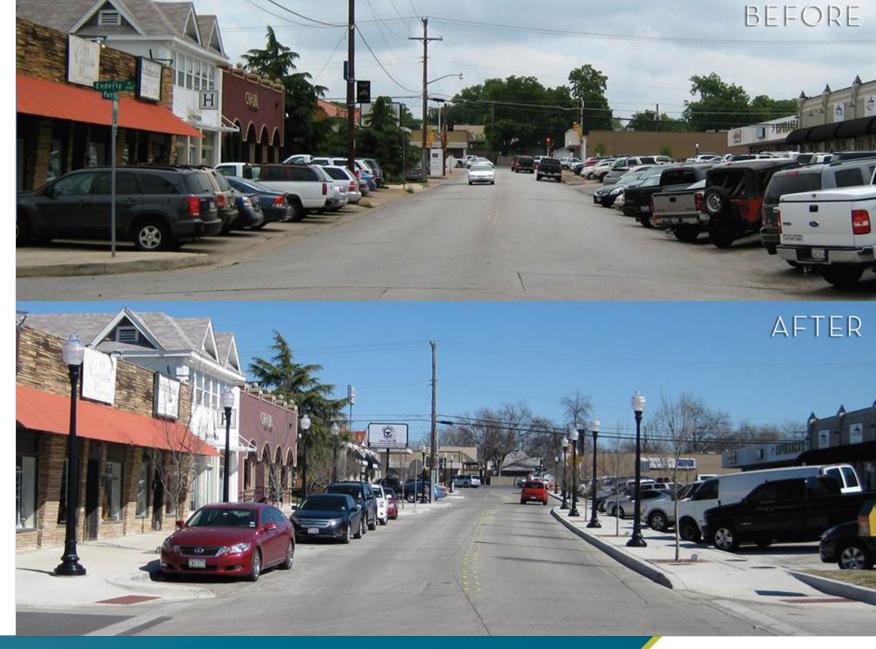






# Design and Safety Elements

Park Place Example









## Preliminary Schematic & Engineering Report

- Utility Assignments
- Short Term vs Long Term Improvements
- Accurate Cost Estimate
- Funding Sources

