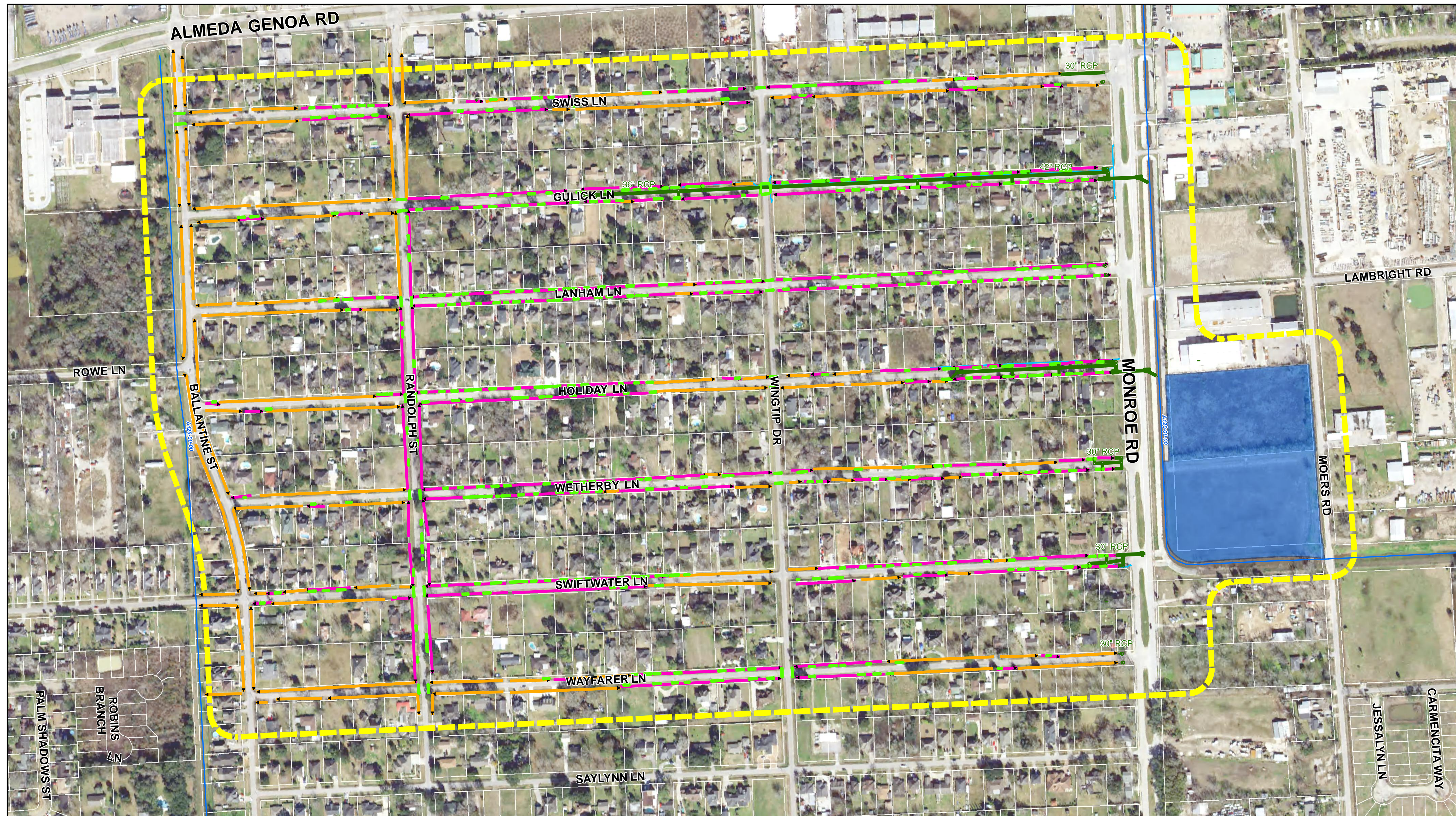




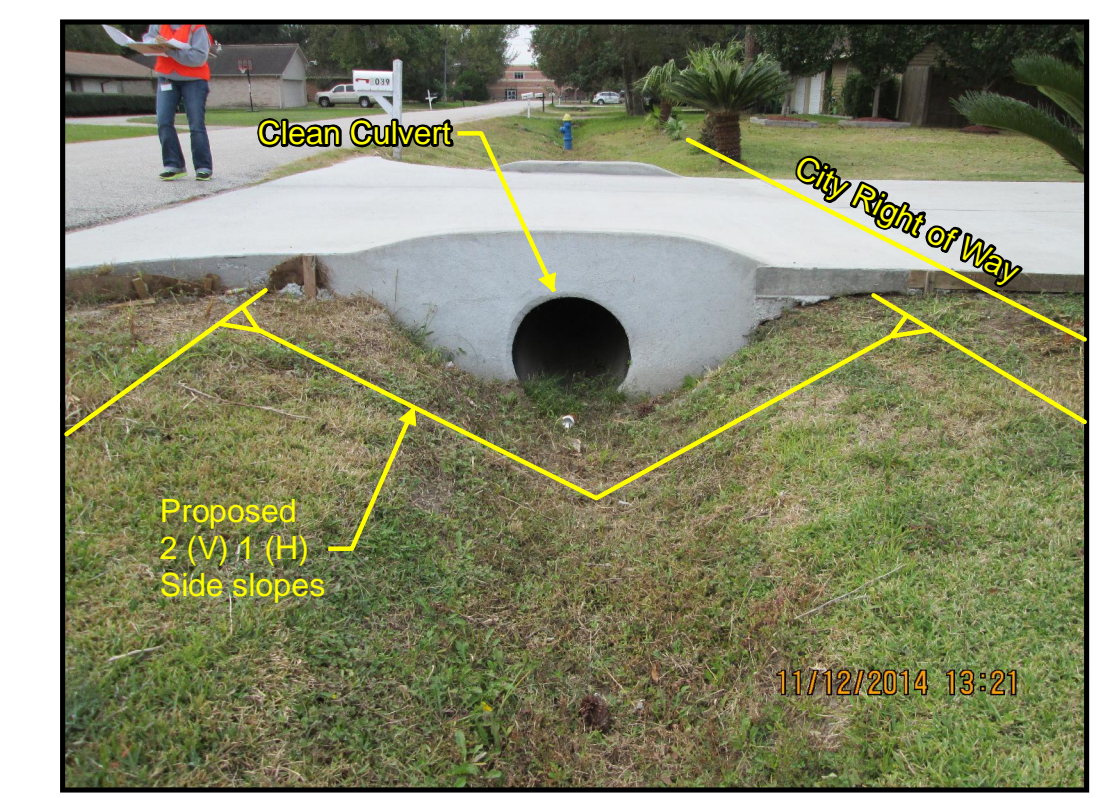
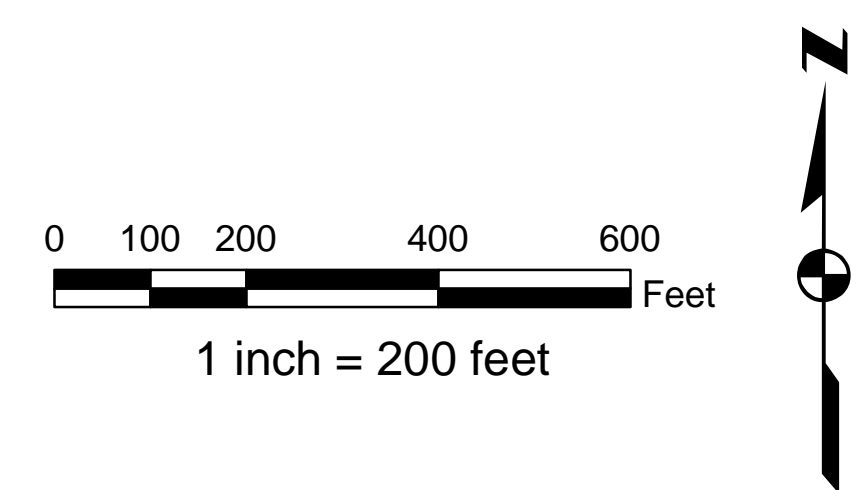
Skyscraper Shadows Area

Roadside Ditch Rehabilitation (M-000126-0070-4)

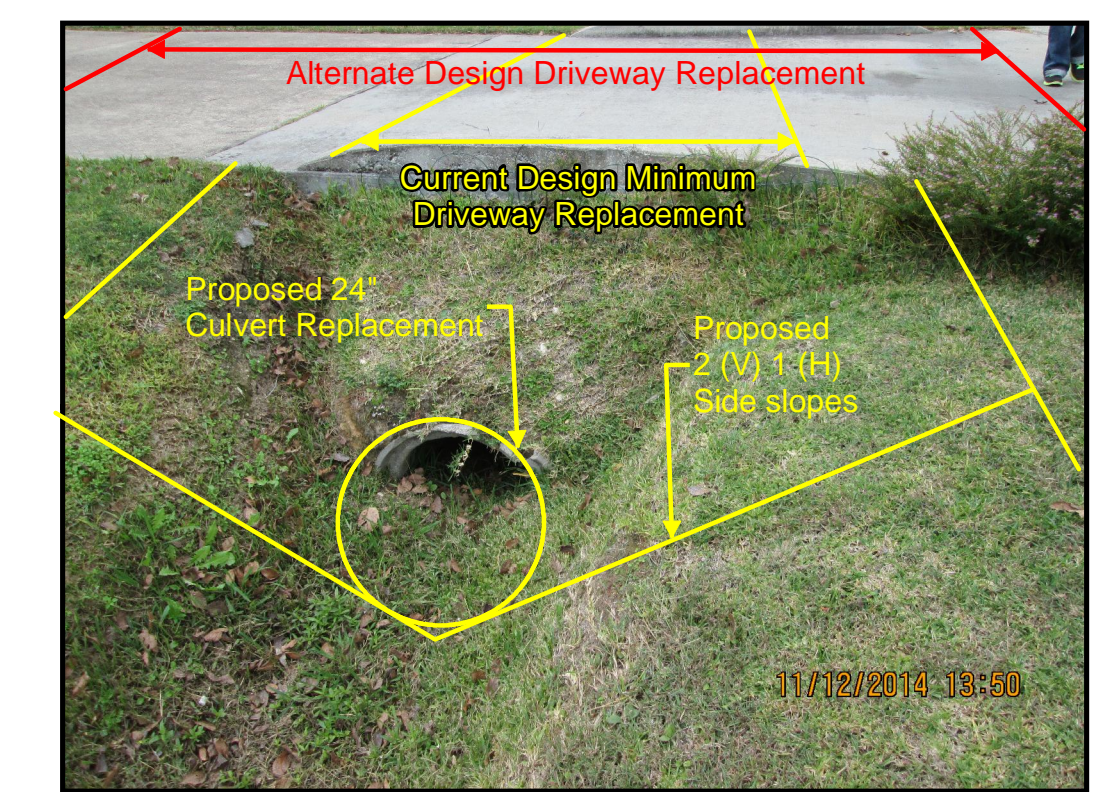


Legend

Harris County Flood Control District Channels	Regrade Ditch / Existing Culvert to Remain	Proposed Storm Sewer	Detention Pond
Proposed Waterline	Regrade Ditch / Replace with 24" Driveway Culvert	Proposed Culverts	Parcel Boundaries
	Project Boundary		



- CULVERT CLEANING AND DITCH REGRADING**
- Current Design: Clean selected culverts and regrade ditches
 - Alternate Design: Replace all culverts; Regrade all ditches
 - Additional Cost: ≈ \$530,000



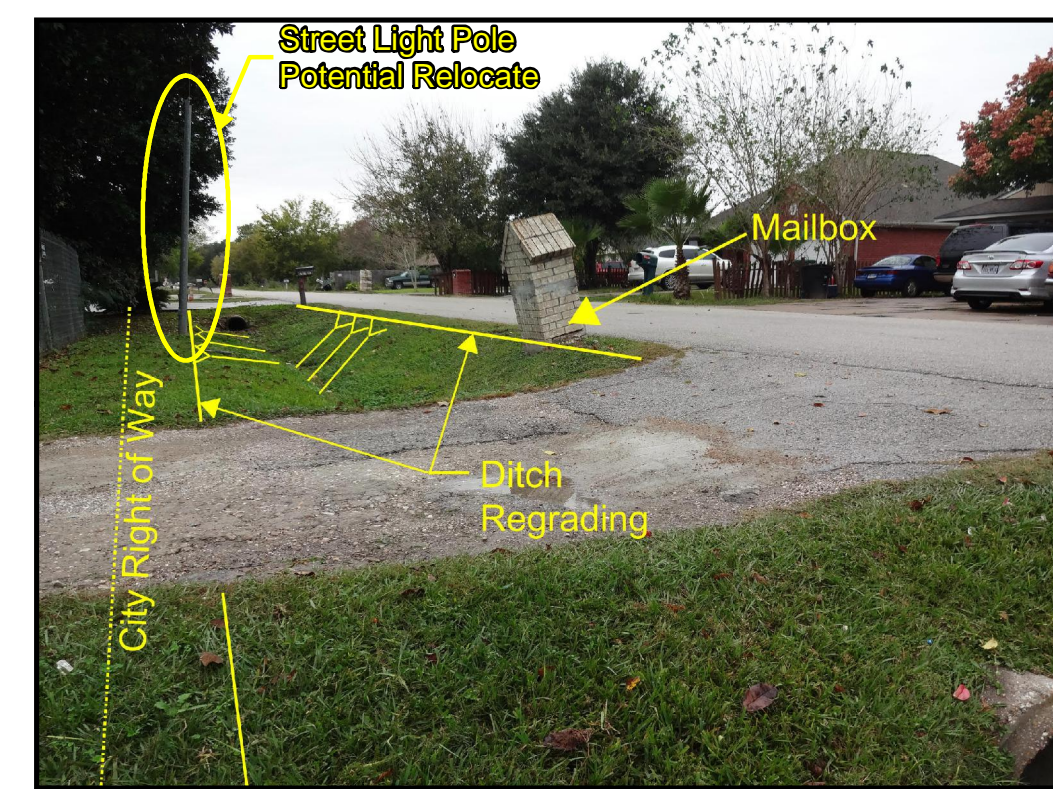
- CULVERT AND DRIVEWAY REPLACEMENT**
- Current Design: Replace selected culverts with 24" diameter pipe, and minimum driveway up to 6.5 ft width
 - Alternate Design: Replace all culverts; Replace complete driveways
 - Additional Cost: ≈ \$2,536,000



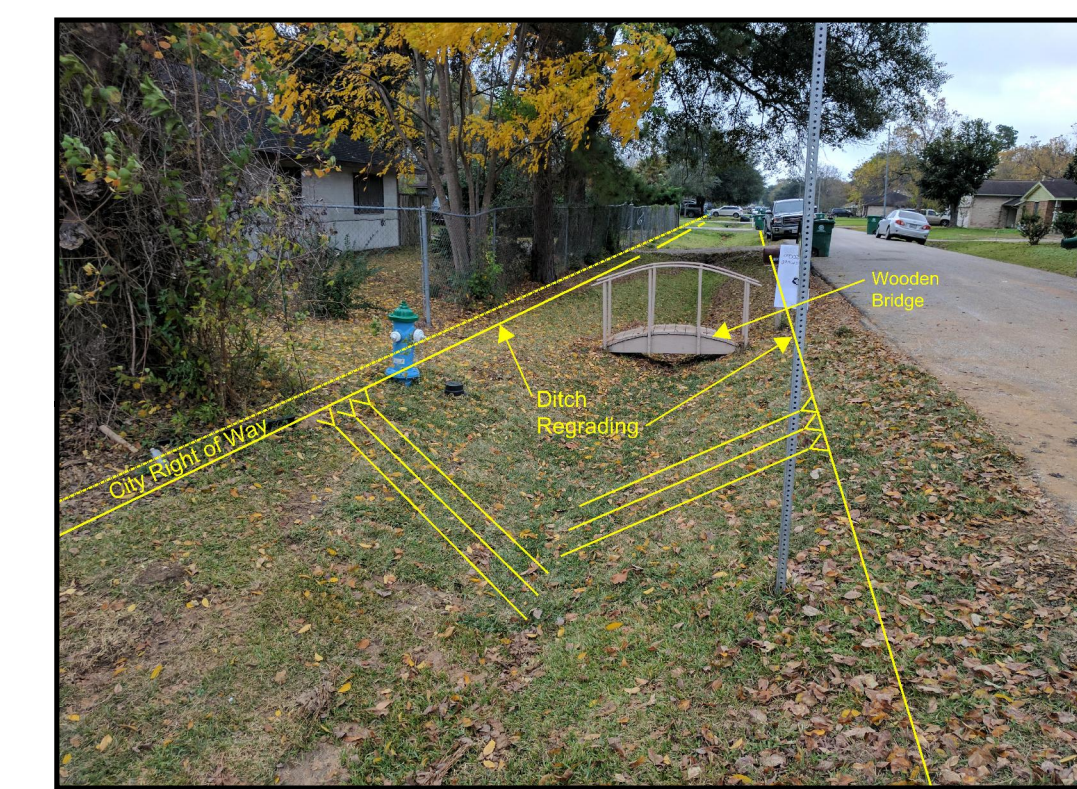
- PUBLIC UTILITY RELOCATION**
- Current Design: Relocate all public utilities in conflict with buried storm sewer. Fire hydrants, water meters and valves remain in proposed ditch regrading limits.
 - Alternate Design: Relocate all public utilities in conflict with buried storm sewer. Fire hydrants, water meters and valves relocated outside of proposed ditch limits.
 - Additional Cost: ≈ \$245,000



- RESIDUAL DITCH PONDING**
- Current Design: Follows industry standard and allows for residual ponding, evaporation, and infiltration.
 - Alternate Design: No residual ponding
 - Additional Cost: ≈ \$45,000



- MAILBOX REPLACEMENT/PROTECTION AND STREET LIGHT REPLACEMENT/PROTECTION**
- Current Design: Protect mailbox structures and street light poles in place
 - Alternate Design: Replace mailbox structures with standard mailbox and street light poles; protect remaining in place
 - Additional Cost: ≈ \$230,000



- CITY RIGHT OF WAY ENCROACHMENTS**
- To achieve design, Contractor is forced to remove items encroaching in City of Houston Right of Way and place on Home owners property. Encroachment letters mailed out.

