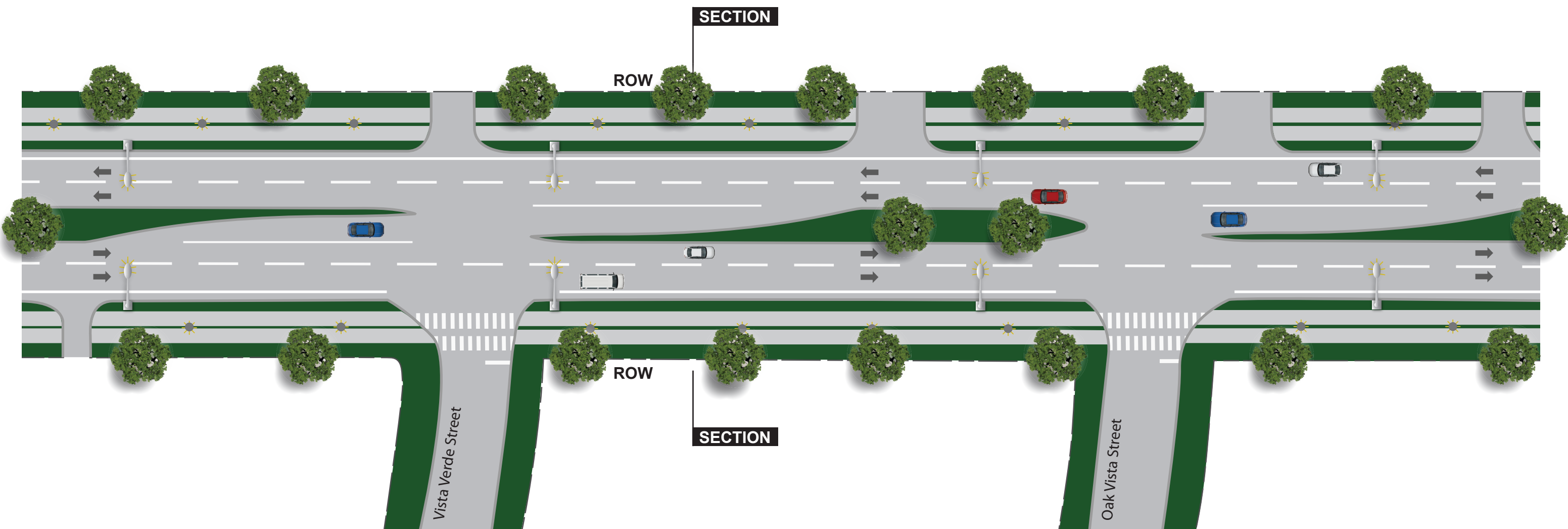
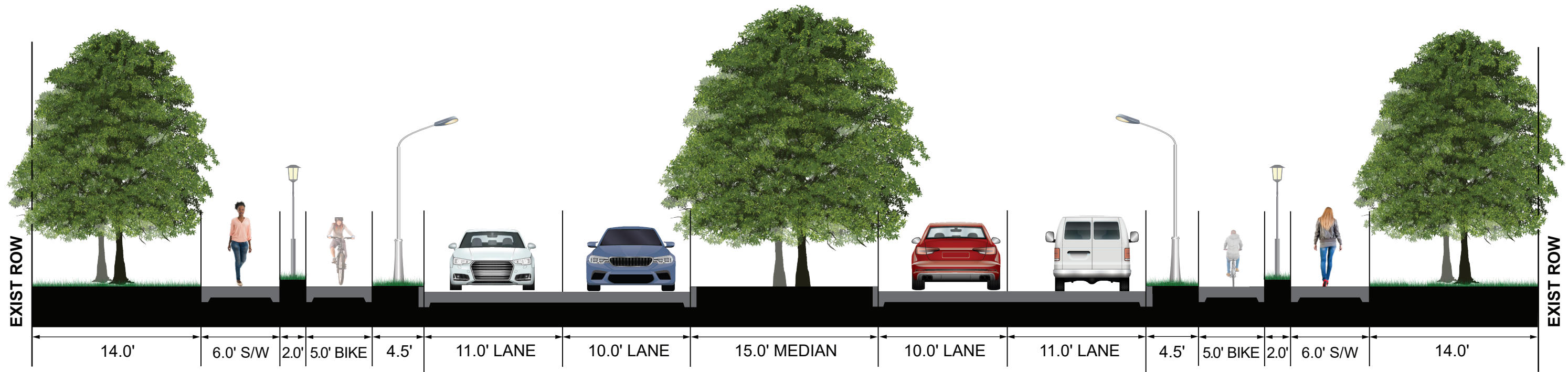


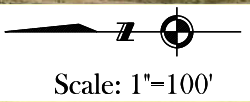
Telephone Road from IH610 to Park Place Boulevard / Long Dr — Alternate 2



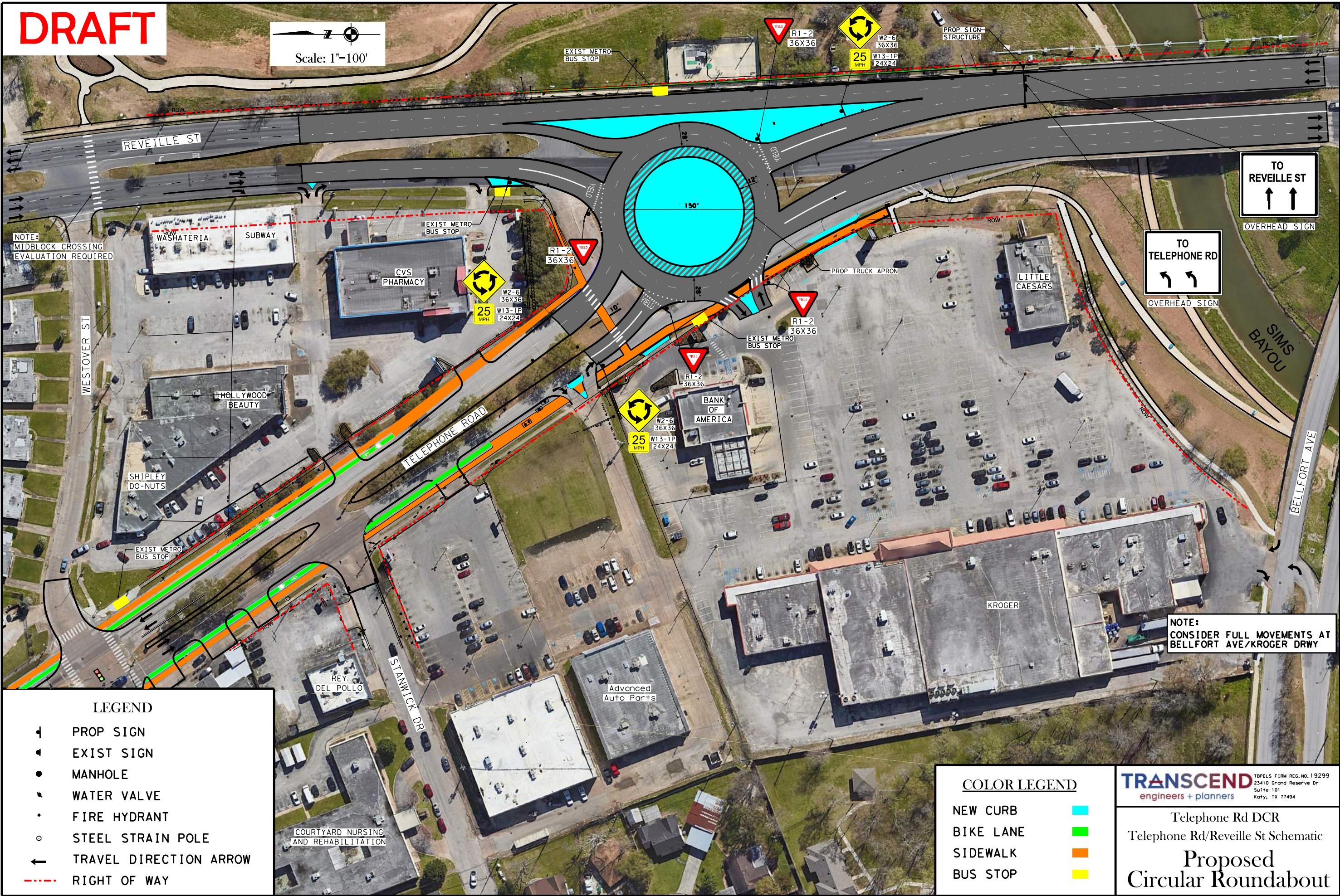
Telephone Road from Park Place Boulevard / Long Dr. to Reveille St. — Alternate 2



DRAFT



6/27/2023 C:\Users\vrans\OneDrive - Transcend Engineers & Planners, LLC\Projects\402021002\1RZ 8\Telephone Road DCR\Code\Latest Code\Work\Telephone-Reveille\Teardrop\Roundabout-Circular.dgn



NOTE:
MIDBLOCK CROSSING
EVALUATION REQUIRED



NOTE:
CONSIDER FULL MOVEMENTS AT
BELLFORT AVE/KROGER DRWY

LEGEND	
	PROP SIGN
	EXIST SIGN
	MANHOLE
	WATER VALVE
	FIRE HYDRANT
	STEEL STRAIN POLE
	TRAVEL DIRECTION ARROW
	RIGHT OF WAY

COLOR LEGEND	
NEW CURB	
BIKE LANE	
SIDEWALK	
BUS STOP	

TRANSCEND
engineers + planners

Telephone Rd DCR
Telephone Rd/Reville St Schematic

Proposed Circular Roundabout

TBPELS FIRM REG. NO. 19299
23410 Grand Reserve Dr
Suite 101
Katy, TX 77494

TELEPHONE RD ROADWAY RECONSTRUCTION
CONCEPTUAL ESTIMATE
ALTERNATE 2B
August 11, 2023

Item No.	Spec Ref.	Base unit Short Title	Unit of Measure	Estimated Quantity	Unit Cost (this column controls)	Total in figures
General						
1	01502	Mobilization	LS	1	\$ 250,000.00	\$ 250,000.00
2	01555	Traffic Control and Regulation	LS	1	\$ 135,000.00	\$ 135,000.00
3	01570	Reinforced Filter Fabric	LF	0	\$ 5.00	\$ -
4	01570	Hay Bale Barrier	LF	100	\$ 8.00	\$ 800.00
5	02922	Sodding	SY	17,550	\$ 6.00	\$ 105,300.00
6		Tree Removal	EA	22	\$ 500.00	\$ 11,000.00
General Items Subtotal						\$ 502,100.00
Storm						
7	02221	Remove and Dispose of Existing Inlets, All Types and Sections	EA	82	\$ 500.00	\$ 41,000.00
8	02221	Remove Existing Storm Manhole (All Types)	EA	85	\$ 600.00	\$ 51,000.00
9	02221	Remove Existing Sanitary Manhole (All Types)	EA	26	\$ 600.00	\$ 15,600.00
10	02221	Remove and Dispose of Exist Storm Sewer	LF	16,582	\$ 20.00	\$ 331,640.00
11	02221	Remove and Dispose of Exist Sanitary Sewer	LF	5,906	\$ 20.00	\$ 118,120.00
12	02260	Trench Safety System	LF	16,582	\$ 15.00	\$ 248,730.00
13	02631	24-Inch Diameter Storm Sewer RCP by Open-Cut (Complete in Place)	LF	6,736	\$ 135.00	\$ 909,360.00
14	02631	30-Inch Diameter Storm Sewer RCP by Open-Cut (Complete in Place)	LF	206	\$ 175.00	\$ 36,050.00
15	02631	36-Inch Diameter Storm Sewer RCP by Open-Cut (Complete in Place)	LF	1,869	\$ 240.00	\$ 448,560.00
16	02631	42-Inch Diameter Storm Sewer RCP by Open-Cut (Complete in Place)	LF	371	\$ 260.00	\$ 96,460.00
17	02631	48-Inch Diameter Storm Sewer RCP by Open-Cut (Complete in Place)	LF	1,625	\$ 300.00	\$ 487,500.00
18	02631	60-Inch Diameter Storm Sewer RCP by Open-Cut (Complete in Place)	LF	78	\$ 450.00	\$ 35,100.00
19	02631	66-Inch Diameter Storm Sewer RCP by Open-Cut (Complete in Place)	LF	538	\$ 550.00	\$ 295,900.00
20	02631	72-Inch Diameter Storm Sewer RCP by Open-Cut (Complete in Place)	LF	1,602	\$ 650.00	\$ 1,041,300.00
21	02643	Install 8x8 Box Culvert	LF	1,962	\$ 980.00	\$ 1,922,760.00
22	02643	Install 5x5 Box Culvert	LF	1,533	\$ 550.00	\$ 843,150.00
23	02633	Type BB Inlet	EA	82	\$ 4,500.00	\$ 369,000.00
24	02633	Type C Manhole	EA	85	\$ 5,000.00	\$ 425,000.00
Storm Items Subtotal						\$ 7,716,230.00
Sanitary Sewer						
25	02082	4-foot diameter precast concrete manholes (water tight)	EA	19	\$ 5,000.00	\$ 95,000.00
26	02082	4-foot diameter precast concrete manholes (water tight including vent)	EA	3	\$ 8,000.00	\$ 24,000.00
27	02531	8-inch diameter sanitary sewer by Open-Cut (Complete in Place)	LF	2,714	\$ 160.00	\$ 434,240.00
28	02531	12-inch diameter sanitary sewer by Open-Cut (Complete in Place)	LF	249	\$ 180.00	\$ 44,820.00
29	02531	15-inch diameter sanitary sewer by Open-Cut (Complete in Place)	LF	325	\$ 240.00	\$ 78,000.00
30	02531	16-inch diameter sanitary sewer by Open-Cut (Complete in Place)	LF	99	\$ 260.00	\$ 25,740.00
31	02531	21-inch diameter sanitary sewer by Open-Cut (Complete in Place)	LF	196	\$ 280.00	\$ 54,880.00
32	02531	24-inch diameter sanitary sewer by Open-Cut (Complete in Place)	LF	578	\$ 300.00	\$ 173,400.00
33	02534	6-inch diameter sanitary sewer service lines	LF	1,602	\$ 120.00	\$ 192,240.00
Sanitary Sewer Items Subtotal						\$ 1,122,320.00
Water						
34	02086	Adjust Valve Box to New Grade (on Roadway)	EA	0	\$ 250.00	\$ -
35	02260	Trench Safety System	LF	9,864	\$ 18.00	\$ 177,552.00
36	02511	8-Inch Diameter Water Line by Trenchless Construction or Open-Cut Construction	LF	1,699	\$ 100.00	\$ 169,900.00
37	02511	12-Inch Diameter Water Line by Trenchless Construction or Open-Cut Construction	LF	2,854	\$ 100.00	\$ 285,400.00
38	02511	20-Inch Diameter Water Line by Trenchless Construction or Open-Cut Construction	LF	5,241	\$ 100.00	\$ 524,100.00
39	02512	5/8-Inch to 2-Inch Diameter Watertaps and Copper Service Line with Meter Box, Short or Long Side	EA	2,767	\$ 2,000.00	\$ 5,534,000.00
40	02513	4-Inch Diameter Wet Connection	EA	1	\$ 2,500.00	\$ 2,500.00
41	02513	6-Inch Diameter Wet Connection	EA	1	\$ 2,500.00	\$ 2,500.00
42	02513	8-Inch Diameter Wet Connection	EA	26	\$ 2,500.00	\$ 65,000.00
43	02513	12-Inch Diameter Wet Connection	EA	4	\$ 2,500.00	\$ 10,000.00
44	02513	20-Inch Diameter Wet Connection	EA	2	\$ 2,500.00	\$ 5,000.00
45	02516	Cut, Plug and Abandon Existing 4-Inch Diameter Water Line	EA	1	\$ 1,500.00	\$ 1,500.00
46	02516	Cut, Plug and Abandon Existing 6-Inch Diameter Water Line	EA	1	\$ 1,501.00	\$ 1,501.00
47	02516	Cut, Plug and Abandon Existing 8-Inch Diameter Water Line	EA	26	\$ 2,000.00	\$ 52,000.00
48	02516	Cut, Plug and Abandon Existing 12-Inch Diameter Water Line	EA	4	\$ 2,001.00	\$ 8,004.00
49	02516	Cut, Plug and Abandon Existing 20-Inch Diameter Water Line	EA	2	\$ 3,000.00	\$ 6,000.00
50	02520	Fire Hydrant Assembly, All Depths, Including 6-Inch Gate Valve and Box	EA	14	\$ 5,500.00	\$ 77,000.00
51	02520	6-Inch Diameter Fire Hydrant Lead	LF	70	\$ 80.00	\$ 5,600.00
52	02520	Remove and Salvage Existing Fire Hydrant	EA	24	\$ 500.00	\$ 12,000.00
53	02525	8-inch by 8-inch TS&V w/ Box	EA	0	\$ 6,000.00	\$ -
Water Items Subtotal						\$ 6,939,557.00

TELEPHONE RD ROADWAY RECONSTRUCTION
CONCEPTUAL ESTIMATE
ALTERNATE 2B
August 11, 2023

Item No.	Spec Ref.	Base unit Short Title	Unit of Measure	Estimated Quantity	Unit Cost (this column controls)		Total in figures
Paving							
54	02221	Remove and Dispose of Asphaltic Surface, All Depths (Including Curbs, Base, Subgrade, and Excavation)	SY	100,560	\$ 10.00		\$ 1,005,600.00
55	02221	Remove and Dispose of Reinforced Concrete Pavement with or without Asphalt Overlay (Including Curbs, Base, Subgrade, and Excavation)	SY	98,250	\$ 10.00		\$ 982,500.00
56	02221	Remove and Dispose of Driveways (All Materials, All Thicknesses)	SY	45,677	\$ 6.00		\$ 274,062.00
57	02221	Remove and Dispose of Sidewalks (All Materials, All Thicknesses)	SY	31,401	\$ 8.00		\$ 251,208.00
58	02221	Lime Stabilized Subgrade	SY	59,802	\$ 5.00		\$ 299,010.00
59	02221	Lime by dry weight	TON	1723	\$ 180.00		\$ 310,140.00
60	02711	Type D Hot-Mix Asphaltic Surfacing, 2"	TON	1,304	\$ 95.00		\$ 123,853.40
61	02751	11-inch Reinforced Concrete Pavement	SY	53,022	\$ 85.00		\$ 4,506,870.00
62	02754	7-inch Concrete Driveway, Including Excavation and Subgrade	SF	94,645	\$ 11.00		\$ 1,041,095.00
63	02711	Hot-Mix Asphaltic Base Course, 8"	TON	5,215	\$ 85.00		\$ 443,264.80
65	02771	Concrete Curb and Gutter, 6-Inches and Greater	LF	11,259	\$ 13.00		\$ 146,367.00
66	02771	Concrete Esplanade Curb, 6-Inches and Greater	LF	4,656	\$ 13.00		\$ 60,528.00
67	02771	Concrete Pavement Header	LF	1,066	\$ 20.00		\$ 21,320.00
68	02771	Concrete Median	SY	1,462	\$ 20.00		\$ 29,240.00
69	02775	ADA Accessible Wheelchair Ramps with Subgrade	SF	3,711	\$ 40.00		\$ 148,440.00
70	02775	4 1/2" Thick Concrete Sidewalk with 6-Inch Cement Stabilized Subgrade (Includes Soil Excavation and Disposal)	SF	60,449	\$ 13.00		\$ 785,837.00
71	02775	6" Thick Concrete Bike Trail with 6-Inch Cement Stabilized Subgrade (Includes Soil Excavation and Disposal)	SF	44,847	\$ 13.00		\$ 583,011.00
72	00000	Concrete Pavers (includes 4 1/2" thick subbase)	SF	49,275	\$ 18.00		\$ 886,950.00
Paving Items Subtotal							\$ 11,899,296.20
Signing and Pavement Markings							
73	1554S	Remove and Relocate Exist Signs Assemblies (Complete in Place)	EA	200	\$ 200.00		\$ 40,000.00
74	01554	Placement of Permanent Signs (Complete in Place)	EA	200	\$ 400.00		\$ 80,000.00
75	02764	Raised Reflective Pavement Markers, Type II-A-A	EA	400	\$ 5.00		\$ 2,000.00
76	02764	Raised Reflective Pavement Markers, Type II-C-R	EA	447	\$ 5.00		\$ 2,232.50
77	02767	Thermoplastic Pavement Markings (Y) 4" (SLD)	LF	8,000	\$ 1.00		\$ 8,000.00
78	02767	Thermoplastic Pavement Markings (W) 4" (SLD)	LF	4,465	\$ 2.00		\$ 8,930.00
79	02767	Thermoplastic Pavement Markings (W) 12" (SLD)	LF	4,200	\$ 4.00		\$ 16,800.00
80	02767	Thermoplastic Pavement Markings (W) 24" (SLD)	LF	1,920	\$ 8.00		\$ 15,360.00
81	02767	Thermoplastic Pavement Markings (Word)	EA	33	\$ 200.00		\$ 6,600.00
82	02767	Thermoplastic Pavement Markings (Turning Arrow)	EA	66	\$ 160.00		\$ 10,560.00
Signing and Pavement Markings Items Subtotal							\$ 190,482.50
Lighting							
83	02581A	Furnish and Install Street Lighting Conduit, 2-inch PVC, Schedule 80	LF	33,000	\$ 22.00		\$ 726,000.00
84	02581B	Light Foundation, Complete in Place	EA	210	\$ 1,500.00		\$ 315,000.00
85	2893A	Furnish and Install 15' Pedestal Pole Assembly with Luminaire	EA	210	\$ 2,000.00		\$ 420,000.00
86	16710	Furnish and Install TY B Pull Box with Apron, Gravel, RMC ELLS, and Ground Rod	EA	45	\$ 1,500.00		\$ 67,500.00
87	16720	Furnish and Install #8 THHN Luminaire Insulated Wire	LF	102,000	\$ 3.00		\$ 306,000.00
Lighting Items Subtotal							\$ 1,834,500.00
Traffic Signals							
88	01270S	Relocate Traffic Signal Equipment PER Intersection	EA	6	\$ 150,000.00		\$ 900,000.00
Traffic Signals Items Subtotal							\$ 900,000.00

TELEPHONE RD ROADWAY RECONSTRUCTION
CONCEPTUAL ESTIMATE
ALTERNATE 2B
August 11, 2023

Item No.	Spec Ref.	Base unit Short Title	Unit of Measure	Estimated Quantity	Unit Cost (this column controls)	Total in figures
REVELLE ST IMPROVEMENTS, CIRCULAR ROUNDABOUT WITH ROADWAY REALIGNMENT						
89	02221	Remove and Dispose of Asphaltic Surface, All Depths (Including Curbs, Base, Subgrade, and Excavation)	SY	18,150	\$ 10.00	\$ 181,500.00
90	02221	Lime Stabilized Subgrade	SY	13,184	\$ 5.00	\$ 65,920.00
91	02221	Lime by dry weight	TON	380	\$ 180.00	\$ 68,400.00
92	02751	11-inch Reinforced Concrete Pavement	SY	12,942	\$ 85.00	\$ 1,100,070.00
93	02754	7-inch Concrete Driveway, Including Excavation and Subgrade	SF	685	\$ 11.00	\$ 7,535.00
94	02771	Concrete Curb and Gutter, 6-Inches and Greater	LF	2,530	\$ 13.00	\$ 32,890.00
95	02771	Concrete Esplanade Curb, 6-Inches and Greater	LF	4,439	\$ 13.00	\$ 57,707.00
96	02775	ADA Accessible Wheelchair Ramps with Subgrade	SF	700	\$ 40.00	\$ 28,000.00
97	02775	4 1/2" Thick Concrete Sidewalk with 6-Inch Cement Stabilized Subgrade (Includes Soil Excavation and Disposal)	SF	10,925	\$ 13.00	\$ 142,025.00
98	02922	Sodding	SY	2,230	\$ 6.00	\$ 13,380.00
99	15545	Remove and Relocate Exist Signs Assemblies (Complete in Place)	EA	20	\$ 200.00	\$ 4,000.00
100	01554	Placement of Permanent Signs (Complete in Place)	EA	20	\$ 400.00	\$ 8,000.00
101	02764	Raised Reflective Pavement Markers, Type II-A-A	EA	100	\$ 5.00	\$ 500.00
102		Thermoplastic Pavement Markings (W) 4" (SLD)	LF	1,000	\$ 2.00	\$ 2,000.00
103	02767	Thermoplastic Pavement Markings (W) 12" (SLD)	LF	500	\$ 4.00	\$ 2,000.00
104	02767	Thermoplastic Pavement Markings (W) 24" (SLD)	LF	250	\$ 8.00	\$ 2,000.00
105	02767	Thermoplastic Pavement Markings (Word)	EA	10	\$ 200.00	\$ 2,000.00
106	02767	Thermoplastic Pavement Markings (Turning Arrow)	EA	10	\$ 160.00	\$ 1,600.00
107	02581A	Furnish and Install Street Lighting Conduit, 2-inch PVC, Schedule 80	LF	2,000	\$ 22.00	\$ 44,000.00
108	02581B	Light Foundation, Complete in Place	EA	20	\$ 1,500.00	\$ 30,000.00
109	2893A	Furnish and Install 15' Pedestal Pole Assembly with Luminaire	EA	20	\$ 2,000.00	\$ 40,000.00
110	16710	Furnish and Install TY B Pull Box with Apron, Gravel, RMC ELLS, and Ground Ro	EA	20	\$ 1,500.00	\$ 30,000.00
111	16720	Furnish and Install #8 THHN Luminaire Insulated Wire	LF	4,800	\$ 3.00	\$ 14,400.00
Reveille Option 2 Items subtotal						\$ 1,877,927.00
WOODRIDGE DR IMPROVEMENTS, OPTION-2, TRAFFIC SIGNAL WITH ROADWAY REALIGNMENT						
112		Reconfigure Woodridge Rd approaches	EA	1	\$ 100,000.00	\$ 100,000.00
Woodridge Improvements Option 2 Items Subtotal						\$ 100,000.00
Tree						
113		Root Pruning	LF	3,321	\$ 2.00	\$ 6,642.00
114		Tree Planting	EA	44	\$ 500.00	\$ 22,000.00
115	01562	Tree and Plant Protection	LF	6,250	\$ 4.00	\$ 25,000.00
116	02811	Irrigation	LS	1	\$ 800,000.00	\$ 800,000.00
117	02911	Top Soil	CY	995	\$ 30.00	\$ 29,850.00
118	02915	Tree Planting	EA	258	\$ 750.00	\$ 193,500.00
119	00000	Shrubs and Groundcover	SF	64,900	\$ 7.50	\$ 486,750.00
Tree Items Subtotal						\$ 1,563,742.00
Extra Unit Price Items						
120	02318	Excavation Around Obstructions	CY	40	\$ 15.00	\$ 600.00
121	02318	Extra Hand Excavation	CY	40	\$ 20.00	\$ 800.00
122	02318	Extra Machine Excavation	CY	40	\$ 20.00	\$ 800.00
123	02318	Extra Placement of Backfill (Cement Stabilized Sand or Granular fill)	CY	50	\$ 15.00	\$ 750.00
124	02318	6-Inch Over Excavation of Trench Bottom	CY	50	\$ 15.00	\$ 750.00
125	02318	Extra Cement Stabilized Sand Backfill	CY	100	\$ 26.00	\$ 2,600.00
126	02318	Extra Machine Excavation	CY	100	\$ 25.00	\$ 2,500.00
127	02318	Extra Placement of Select Backfill Material	CY	200	\$ 30.00	\$ 6,000.00
128	00000	Benches	EA	33	\$ 5,000.00	\$ 165,000.00
129	00000	Trash Recepticle	EA	33	\$ 3,500.00	\$ 115,500.00
130	00000	Upgraded Bus Shelter	EA	19	\$ 25,000.00	\$ 475,000.00
Extra Unit Price Items Subtotal						\$ 770,300.00
Cash Allowance Table						
131	01110	Street Cut Permits	LS	1	\$ 5,000.00	\$ 5,000.00
132	01110	CenterPoint Energy (Street Light Removals & Installations)	LS	1	\$ 20,000.00	\$ 20,000.00
Cash Allowance Subtotal						\$ 25,000.00

Total \$ 35,441,454.70
Total w/30% Contingency \$ 46,073,891.11
Easement Acquisition \$ 38,345.28
TOTAL \$ 46,112,236.39

Telephone Road Reconstruction and Access Management Improvements Design Concept Report Stage 1 Presentation




DCR Stage 1
WBS No. N-T08000-0005-7
April 13, 2022



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY



THE GOODMAN CORPORATION

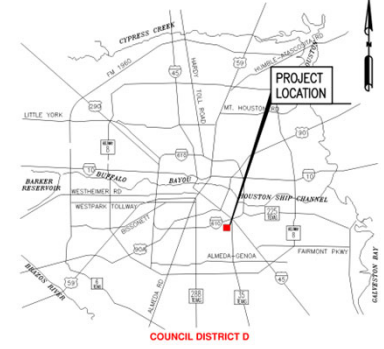
TRANSCEND CLARK CONDON
engineers + planners





1

Telephone Road DCR – Stage 1

PROJECT LOCATION



2

Telephone Road DCR – Stage 1

+/- 8,450 LF (1.6 MILE)


PROJECT LIMITS

Traffic Use



- Commercial
- Industrial
- Residential

Adjacent Development

- 123 Commercial Sites
- 1 Industrial Site
- 23 Single-Fam Homes
- 2 Multi-Fam Properties
- 1 Duplex Property
- In Close Proximity to Hobby Airport



Legend
█ Highway Construction
█ Highway Construction

3

Telephone Road DCR – Stage 1



PROJECT BACKGROUND & OBJECTIVES

ROADWAY CHARACTERISTICS


- North of Long Drive:** 4-lane undivided asphalt road, 51' to 77' wide
- South of Long Drive:** 6-lane divided asphalt road with 6" curbs, 96' to 98' wide

SCOPE OF WORK

- Provide "Complete Street" Improvements
- Provide safer and better-defined bike lanes
- Improve safety to meet Vision Zero Goals

PROJECT BACKGROUND & OBJECTIVES

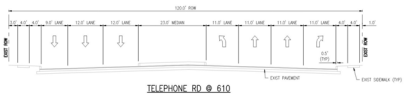



4



Telephone Road DCR – Stage 1

EXISTING CONDITIONS – ROADWAY (@ IH610 S EB Feeder Road)

- Asphalt Roadway
- Lanes ranging from 9 to 12-ft wide
- 23-ft Median at IH 610
- 4-ft Shoulders
- 4-ft Sidewalks
- Pavement Condition Index (PCI): 62 to 98 from I-610 EB Frontage Rd to Long Dr



Telephone Rd - Typical Section

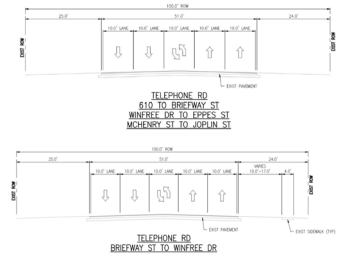



5



Telephone Road DCR – Stage 1

EXISTING CONDITIONS – ROADWAY (NORTH OF LONG DR)

- Asphalt Roadway
- 10-ft wide lanes
- 10-ft turning lane
- Shoulders
- Partial 4-ft Sidewalks
- Pavement Condition Index (PCI): 62 to 98 from I-610 EB Frontage Rd to Long Dr



Telephone Rd - Typical Section

6

Telephone Road DCR – Stage 1

- Asphalt Roadway
- Lanes ranging from 10 to 16-ft wide
- 16-ft median
- Shoulders
- Sidewalks past the ROW
- Record drawings dating back t 1946
- Pavement Condition Index (PCI): 62 to 98 from I-610 EB Frontage Rd to Long Dr

**EXISTING CONDITIONS – ROADWAY
(NORTH OF LONG DR)**

Telephone Rd - Typical Section

7

Telephone Road DCR – Stage 1

- Asphalt Roadway
- 11-ft Lanes
- 30-ft median
- Shoulders
- 4-ft Sidewalks
- Pavement Condition Index (PCI): 47 to 90 from Long Dr to Reveille St

**EXISTING CONDITIONS – ROADWAY
(SOUTH OF LONG DR)**

Telephone Rd - Typical Section

8

Telephone Road DCR – Stage 1

- ROW – 100 FT (I-610 to Long Dr)
- ROW – 120 FT (Long Dr to Reveille St.)
- Major thoroughfare
- Speed Limit 35mph
- Existing Sidewalks, crosswalks and beacons

EXISTING CONDITIONS – ROADWAY

9

Telephone Road DCR – Stage 1

- Existing METRO Bus Route along Telephone Rd
- Existing Bike Routes shared on-street from Woodridge to La Paseo
- Proposed Bike Routes dedicated on-street from S Loop Fwy E to Bellfort
- 311 Calls regarding maintenance requests only

EXISTING CONDITIONS – ROADWAY

10

Telephone Road DCR – Stage 1

- Total of 136 Crashes (2019-2021)
 - 1 fatal crash, 5 incapacitating crashes, 54 non-severe or possible injury crashes, 76 not injured or unknown injured crashes;
 - 129 vehicle crashes, 5 pedestrian crashes, 2 bike crashes.
 - 1 of the pedestrian crashes was severe, the rest of the pedestrian and bike crashes were non-severe crashes;
 - Both bike crashes involved bicyclists under 20 years old.

2019 - 2021 Crashes

Crash Density Map

11

Telephone Road DCR – Stage 1

- Crash Share
 - The Hispanic demographic is involved in the highest share of crashes which is aligned with their share of the demographic population.
 - The percentage of Black individuals involved in all crashes is almost twice as high as their demographic share.

Crash Share by Racial and Ethnic Minorities

Ethnicity	Share of Crashes
Hispanic	82.6%
Black	11.3%
Asian	0.5%
White	4.8%
Other or Unknown	0.8%

Group	Share of Crashes
Hispanic	75.0%
Black	20.6%
Asian	0.9%
White	15.0%
Other or Unknown	0.0%

12

Telephone Road DCR – Stage 1

- Site Visit Photos
 - Photo 1 – Driveway Access Conflicts
 - Photo 2 – Pedestrian Infrastructure And Signal Upgrade Needed
 - Photo 3 – Missing Sidewalk

Photo 1
Near the Telephone & Fairway Dr Intersection



Photo 2
At the Telephone & Long Dr Intersection



Photo 3
Near the Telephone & Stanwick Dr Intersection



13

Telephone Road DCR – Stage 1


Nearest Traffic Count

- 16,234 vehicles per day N of Woodridge Drive
- 22,286 vehicles per day S of Fairway Drive
- 19,930 vehicles per day N of Long Drive
- 20,096 vehicles per day S of Dixie Drive
- 19,665 vehicles per day N of Westover Street
- 19,606 vehicles per day N of Reveille Street

Signalized Intersection

- IH-610 South Loop East
- Woodridge Drive
- Fairway Drive
- Long Drive
- Dixie Drive
- Westover Street
- Reveille Street

EXISTING CONDITIONS – TRAFFIC




14

Telephone Road DCR – Stage 1

- TxDOT Projects
 - IH 610 – Reconstruction of Existing Roadway
 - SH 35 Surfacing/Roadway restoration
- HGAC Projects & Studies
 - Southeast Mobility Plan – May 2019
 - Metro Bike & Ride Access & Implementation Plan – Jan 2014
 - Hobby Area Livable Centers Planning Study

PREVIOUS STUDIES




15

Telephone Road DCR – Stage 1

- Planned project on Woodridge Dr:
 - TIRZ #8 Woodridge Dr Street Rehab and Pedestrian Safety from Telephone to IH-45
- No Studies Found for the Following Entities:
 - HCFC
 - COH
 - HARRIS COUNTY
 - METRO

PREVIOUS STUDIES




16

Telephone Road DCR – Stage 1

- City Tree Protection Ordinance
- 58 Live Oaks
 - Located within the median from Reveille Street to Long Dr
 - Should be protected during any proposed improvements
- Additional trees found that may conflict with any proposed improvements
 - 7 Live Oaks along eastern ROW of Telephone Rd between Westover St and Stanwick Dr.
 - 4 Cedars along eastern ROW N of Telephone Rd & El Rancho St
 - 13 Live Oaks along eastern ROW of Telephone Rd between Gammage St and Winfree Dr
 - Multiple unprotected trees from El Rancho St to Long Dr.

TREE IMPACTS



17

Telephone Road DCR – Stage 1

Starting south of IH 610 ending at Reveille Rd there are gravity mains with the sizing as follows:

- 36" RCP
- 24" Conc
- 24" Conc
- 18" RCP
- 18" Conc
- 30" RCP
- 36" MRC
- 66" MRC
- 48" RCP
- 72" MRC

EXISTING CONDITIONS – Storm Drainage




18

Telephone Road DCR – Stage 1

APPROACH

- Identify Existing Flow Paths Across Telephone Road
- Evaluate Contributing Offsite Drainage Area
- Analyze Inlet-Level Existing Condition For Telephone Road
- Estimate Existing System Capacity

EXISTING CONDITIONS – DRAINAGE

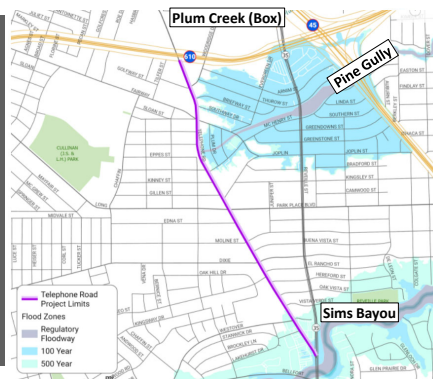


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Telephone Road DCR – Stage 1

FEMA Floodplain & Watersheds

- Sims Bayou Watershed (C100)
 - C100: 4,015 ac
 - C100L: 2,165 ac
- Plum Creek
 - C102A: 1,857 ac
- Pine Gully
 - C103: 1,033 ac



20

Telephone Road DCR – Stage 1

DCR Summary Table – System Capacity

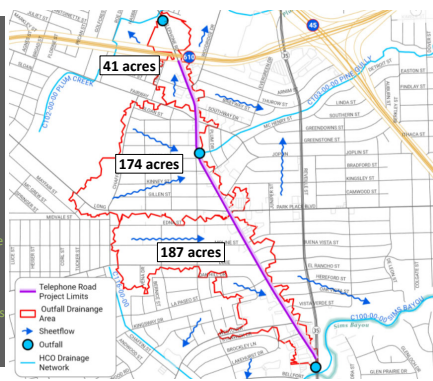
- No Flood Loss structures along the Telephone Rd project alignment
 - Three (3) Repetitive Loss Structures in the Contributing Drainage Area (FEMA)
- C100-00-00 (Sims Bayou):
 - Pre-Atlas 14 25-yr (4% AEP) System Capacity at Telephone Rd Outfall
- C102-00-00 (Plum Creek):
 - Pre-Atlas 14 100-yr (1% AEP) System Capacity at Telephone Rd Outfall
- C103-00-00 (Pine Gully):
 - < Pre-Atlas 14 10-yr (10% AEP) System Capacity at Telephone Rd Outfall

21

Telephone Road DCR – Stage 1

CONTRIBUTING DRAINAGE AREA

- North Storm Sewer:**
 - Fairway Dr to Plum Creek
- Central Storm Sewer:**
 - Fairway Dr to Pine Gully
 - Park Place Blvd to Pine Gully
- South Storm Sewer:**
 - Park Place Blvd to Sims Bayou

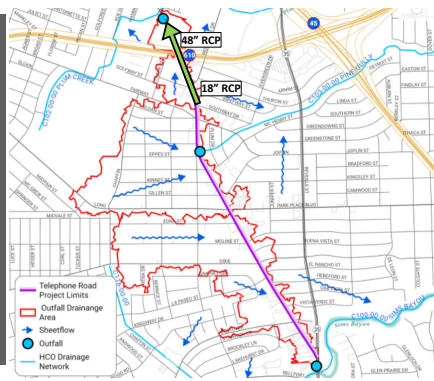


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Telephone Road DCR – Stage 1

NORTH STORM SEWER

- Constructed between 1965-1967
- Subsurface Concrete Storm Sewer:
 - 18" to 48" RCP
- Primary Inlet Type:
 - Type A Gate Inlet
 - Type B Curb Inlet
- System Capacity:
 - Pre-Atlas 14, 5- to 25-Year

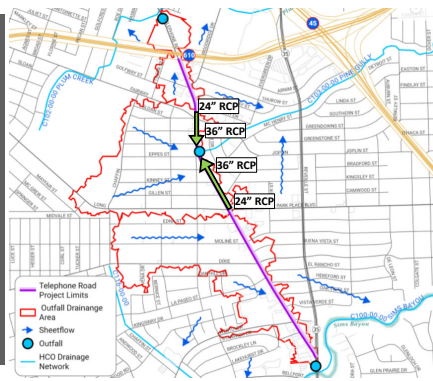


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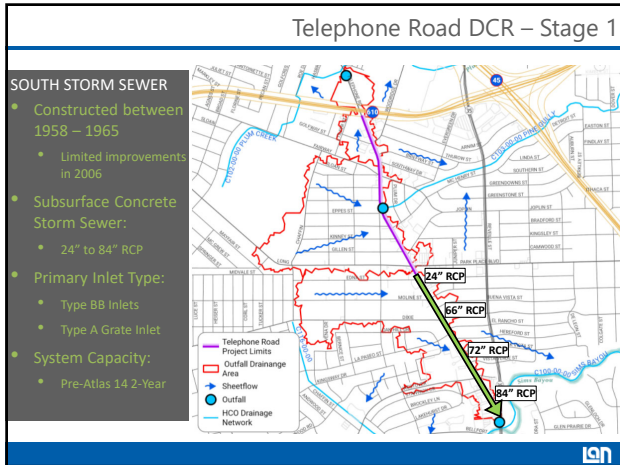
Telephone Road DCR – Stage 1

CENTRAL STORM SEWER

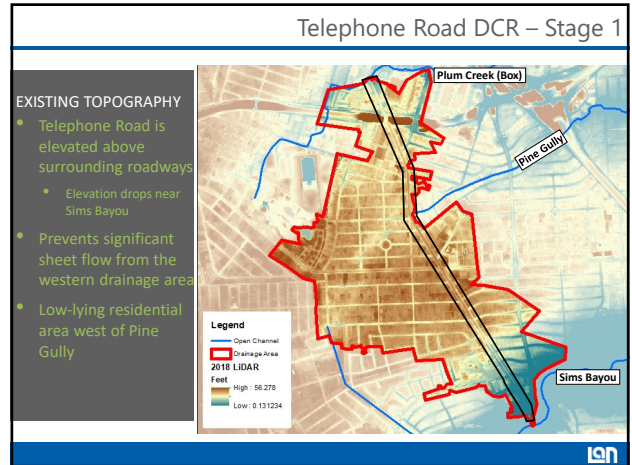
- Constructed ~ 1945
- Subsurface Concrete Storm Sewer:
 - 24" to 36" RCP
- Primary Inlet Type:
 - Type A Gate Inlet
 - Type C Curb Inlet
- System Capacity:
 - Less than Pre-Atlas 14 2-Year (Inadequate)



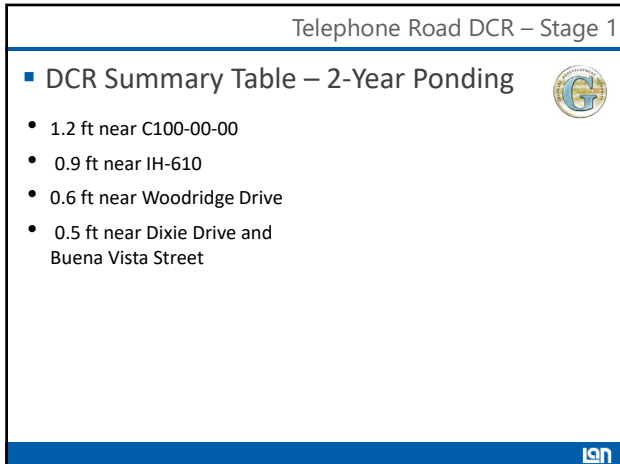
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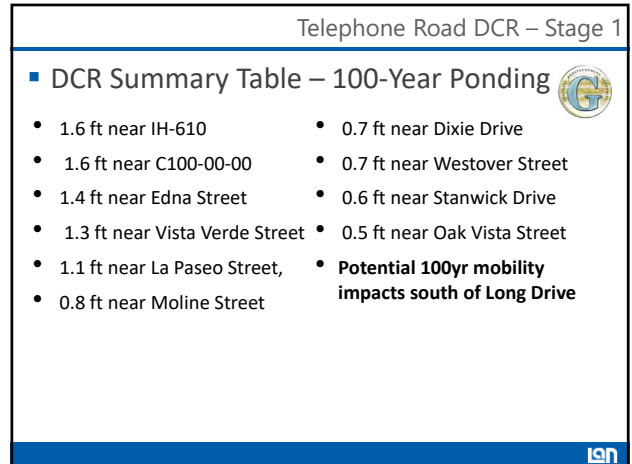
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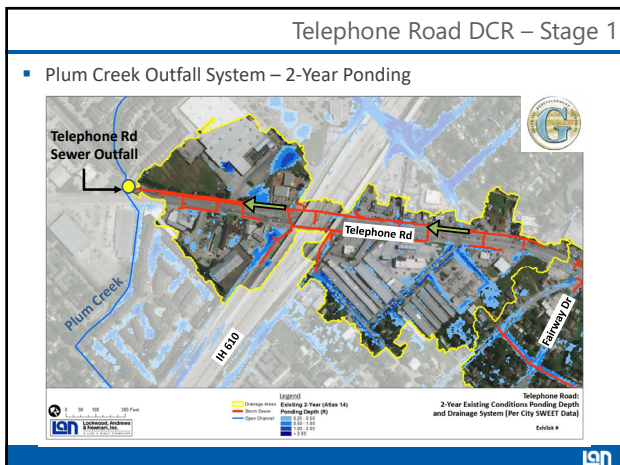
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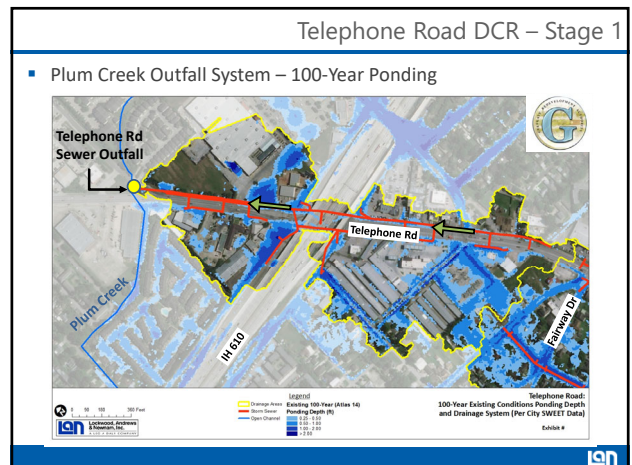
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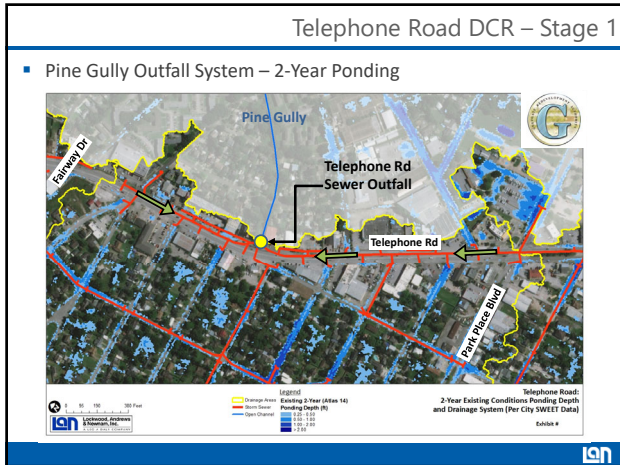
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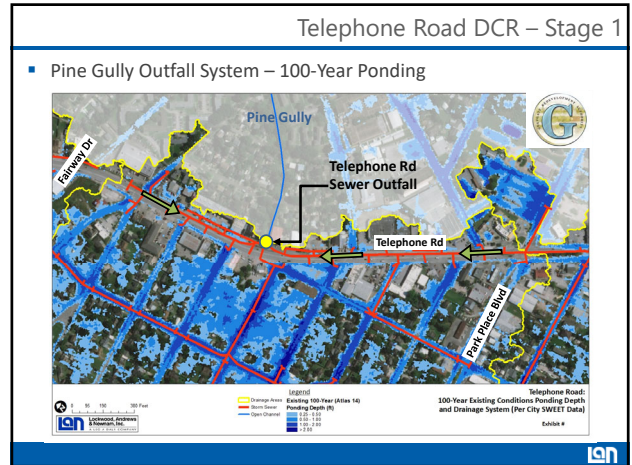
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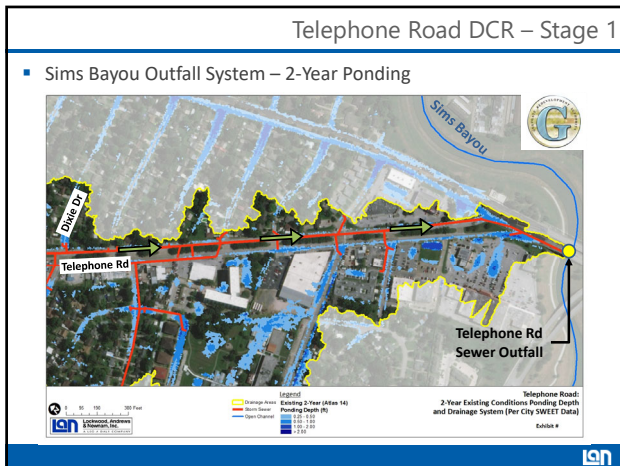
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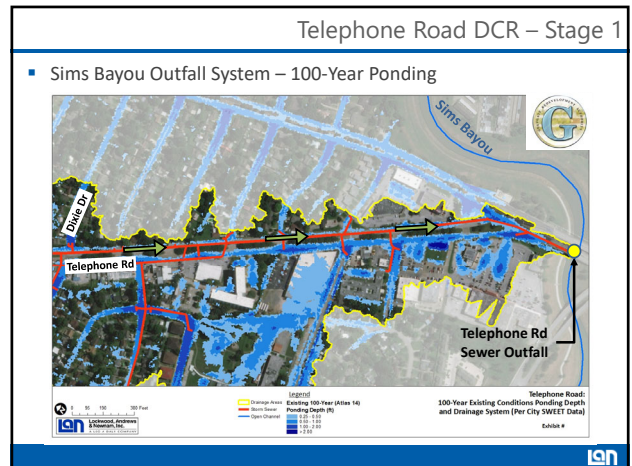
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32



33



34

Telephone Road DCR – Stage 1

EXISTING CONDITIONS – WATER LINE

20-inch Water line

P31009:

- IH-610 to Dixie Dr
- In Service Date: May 24, 1995
- D.I. Pipes

12-inch Water line

No Plan Number:

- Dixie Dr to Reveille St
- In Service Date:
 - PVC Pipe: Sep 21, 2003
 - C.I. Pipe: Jul 22, 1946

35

Telephone Road DCR – Stage 1

EXISTING CONDITIONS – SANITARY SEWER

4-inch Gravity Line

- P14384:
 - IH610 to Woodridge Dr
 - Concrete Cured in Place pipe
 - Baseline Age: Dec 31, 1989
- No Plan Number:
 - Southway Dr to Culmore Dr
 - Polyethylene Pipe
 - Rehabbed: Nov 28, 2005
- No Plan Number:
 - Kinney St to Gillen St
 - Concrete Pipe
 - Baseline Age: Aug 8, 1940


36



Telephone Road DCR – Stage 1

8-inch Gravity Line

- No Plan Number:
 - Joplin St to Long Dr
 - Polyethylene Pipe
 - Rehab Completion Date: Feb 11, 1992
- P9382:
 - Long Dr to Edna St.
 - Concrete Pipe
 - In Service Date: Apr 30, 1949

EXISTING CONDITIONS –
SANITARY SEWER




37



Telephone Road DCR – Stage 1

8-inch Gravity Line

- No Plan Number:
 - Located just North of Gillen St
 - Concrete Pipe
 - Baseline Age: Aug 8, 1940
- P31610
 - Located just South of Gillen St
 - Polyvinyl Chloride pipe
 - In Service Date: Oct 15, 1996
- P28363
 - Located south of Stanwick Dr running along Telephone Rd.
 - Polyvinyl Chloride pipe
 - In Service Date: Aug 15, 1988

EXISTING CONDITIONS –
SANITARY SEWER




38



Telephone Road DCR – Stage 1

24-inch Gravity Line

- P31610
 - Kinney St to Joplin St
 - Polyvinyl Chloride pipe
 - In Service Date: Oct 15, 1996

EXISTING CONDITIONS –
SANITARY SEWER



39

Telephone Road DCR – Stage 1

Centerpoint Energy

- Gas
- Electric manholes, duct lines and other facilities in the area

AT&T, Verizon and Comcast

- Buried Cable
- Conduits
- Duct Banks

Kinder Morgan

- 16" Natural Gas Transmission pipeline along Long Dr.

EXISTING PRIVATE UTILITIES












40

Questions & Answers



41

Telephone Road - Public Meeting Presentation



WELCOME

Potential Telephone Road Reconstruction Project

Public Meeting

**Tuesday, May 10, 2022
6:30 to 7:30 P.M.**



TIRZ 8



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY




CLARK CONDON
TRANSCEND
engineers + planners

2

Agenda


- Project Team
- What is a TIRZ?
- Project Information
- Previous Studies
- Corridor Overview
- Project Purpose
- Existing Conditions
- Project Schedule
- Public Comment Process
- Closing Remarks
- Questions
- Adjourn



May 10, 2022
POTENTIAL TELEPHONE ROAD RECONSTRUCTION PROJECT
3

3

Project Team





Don Huml
Senior Project Manager
Gulfgate Redevelopment Authority / TIRZ 8
Dhuml@TIRZ8.org




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A LEO A DALY COMPANY




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THE GOODMAN CORPORATION



Kristi Miller, AICP
Public Engagement
Funding Pursuit
kmiller@thegoodmancorp.com

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4

4

We want YOUR input!

Submit your comments regarding this project via:

-  **Email:** TelephoneRoadReconstruction@gmail.com
-  **Online:** www.tirz8telephoneroad.com
-  **Survey:** Open **now** through Monday, June 13, 2022

English: <https://tinyurl.com/TelephoneRdSurvey>
 Español: <https://tinyurl.com/EspanolTelephoneRdEncuesta>

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5

5

TIRZ 8 / Gulfgate Redevelopment Authority

What is a TIRZ?

- Tax Increment Reinvestment Zone
- 180+ in Texas (27 in Houston)
- Economic development tool
- Used for public infrastructure improvements & enhancements
- Funded by ad valorem Property Taxes
- Example Projects:
 - Park Place Blvd Improvements
 - Multiple Streets & Sidewalk Improvements
 - Repaved MLK Blvd
 - Repaved portion of Bellfort Ave

Board of Directors

- Position 1: Alberto "Beto" P. Cardenas, Jr.*
- Position 2: Mary K. Vargo*
- Position 3: Tracy Stephens*
- Position 4: M.E. "Sonny" Garza, *Chairman*
- Position 5: Gusta Booker III
- Position 6: Hugo Alvarez
- Position 7: Dr. Samuel Sarabia

*Members of the Telephone Road Subcommittee



Bellfort Ave at Luce St

May 10, 2022

For more information about TIRZ: <https://www.houstontx.gov/ecodev/tirz.html>

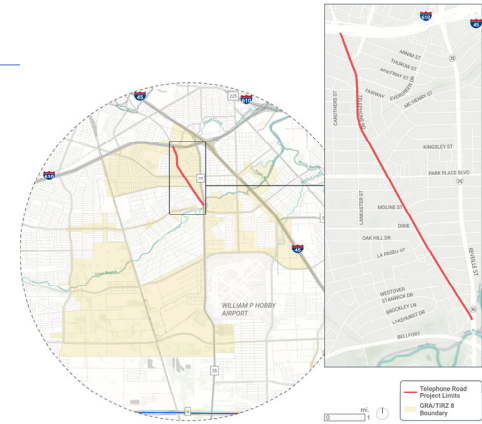
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Project Information

Telephone Road

- 1.6-mile stretch from South Loop East Freeway frontage road to Reveille Street
- A vital commercial and residential corridor for the community
- Provides a direct connection between southern Houston, the Hobby Area, and communities to the south such as Pearland and Alvin
- Project is in the TIRZ 8 Capital Improvement Plan (CIP)



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POTENTIAL TELEPHONE ROAD RECONSTRUCTION PROJECT

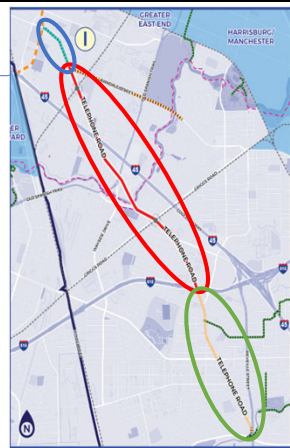
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Part of a larger revitalization effort

Three projects to create a continuous, transformational corridor:

- Lockwood to Lawndale (TIRZ 23)
- Lawndale to IH-610 (City of Houston's *Main Street Revitalization Project*)
- IH-610 to Reveille (TIRZ 8)



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POTENTIAL TELEPHONE ROAD RECONSTRUCTION PROJECT

8

8

Corridor Overview

- Two sections:
 - 4 lanes + continuous left-turn lane from South Loop East Freeway frontage road to Long Drive/Park Place Blvd
 - 6 lanes + raised median from Long Drive/Park Place Blvd to Reveille Street
- Speed Limit is 35 MPH
- Major Thoroughfare
 - Designed to accumulate and distribute traffic across the road network in the area
 - Provide access to commercial, mixed use, and residential areas



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9

9

Previous Studies

TxDOT

- IH 610 – Reconstruction of Existing Roadway
- SH 35 Surfacing/Roadway restoration

Houston-Galveston Area Council

- [Southeast Mobility Plan](#) - May 2019 (Partially funded by TIRZ 8)
- [Hobby Area Livable Centers Planning Study](#) - March 2017
- [Metro Bike & Ride Access & Implementation Plan](#) - Jan 2014



Planned Projects

TIRZ 8

- Woodridge Dr Street Rehab and Pedestrian Safety from Telephone to IH-45

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10

10

Project Purpose

The project purpose is to reconstruct and update the corridor with new infrastructure that will:

- Improve safety
- Improve mobility
- Improve access
- Improve street lighting
- Upgrade public utilities
- Add enhancements & beautification



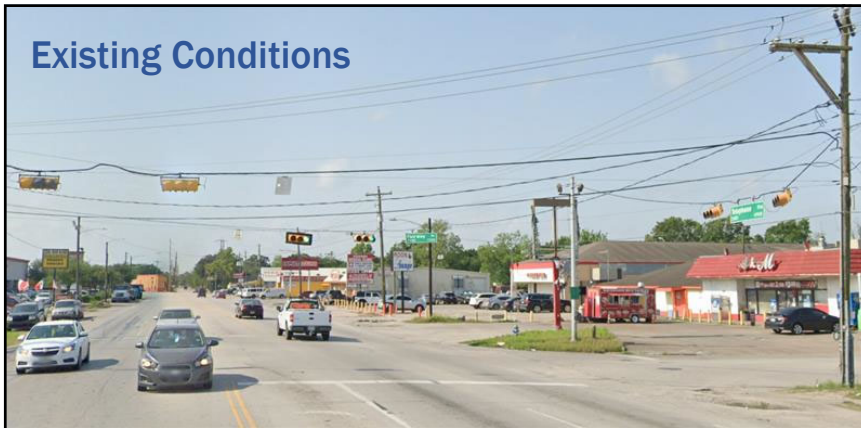
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11

11

Existing Conditions



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12

12

Land Use

Adjacent to Telephone Road is mainly **commercial**

Surrounding area is predominantly **residential**

Telephone Road provides **access** to:

- J. P. Cornelius Elementary, Golfcrest Elementary, Hartman Middle School
- HISD Barnett Sports Complex
- Hobby Airport
- Communities to the south



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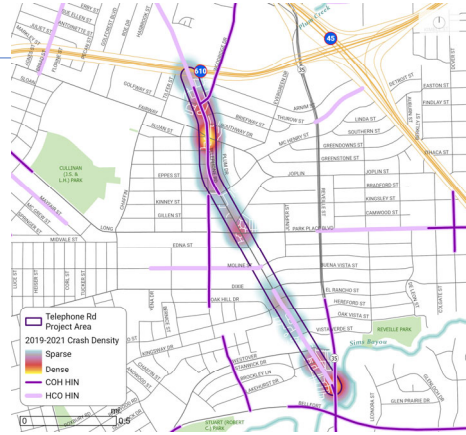
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13

13

Safety

- 136 reported crashes from 2019 to 2021
- 60% of corridor identified in the [City of Houston](#) and [Harris County Vision Zero High Injury Network](#)



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14

14

Traffic & Congestion

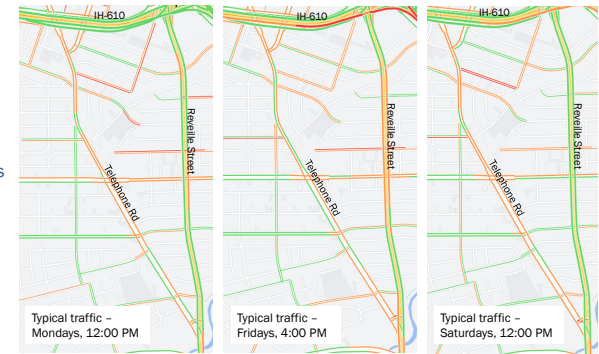
Traffic is consistent with other similar roadways

However...

When traffic is combined with:

- 6 signalized intersections
- 19 intersecting streets
- 70+ commercial driveways

Creates congestion during peak hours



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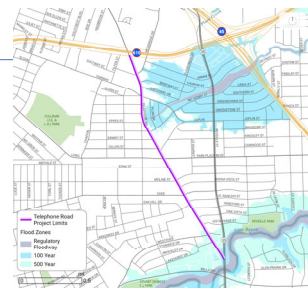
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15

15

Drainage and Flooding

- Drainage
 - Telephone Road is elevated above surrounding roadways preventing adequate drainage from exiting the western area
- Storm Water
 - Three storm sewers
 - Constructed between 1945 – 1965
 - No or limited improvements
- Flooding
 - No flood losses according to FEMA
 - Low-lying residential area west of Pine Gully
 - Potential 100-year mobility impacts south of Long Drive
- This aging infrastructure has exceeded its service life and does not meet current drainage standards
- Drainage infrastructure should be improved to meet post-Hurricane Harvey design standards



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16

16

Roadway Pavement Conditions

- Observed several areas with deteriorating pavement
- Many driveway aprons are in poor condition
- Many driveways too large for safe pedestrian travel
- Roadway has exceeded its service life and no longer meets current City criteria



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17

17

Sidewalk Conditions

- Sidewalks range from fair to poor
- Lacking safe passageway for pedestrians
- Sidewalk widths are too narrow by current criteria and not ADA-compliant
- Large gaps in sidewalk coverage, inconsistent ramps and crossings, utility poles and other barriers
- Existing sidewalks have exceeded their useful life



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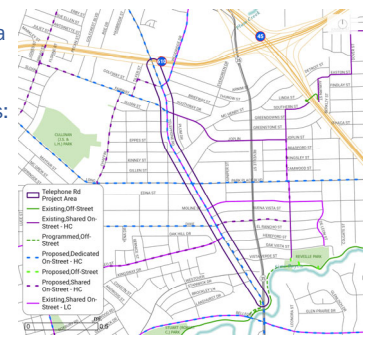
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18

18

Bicycle Network

- Existing Bike Routes:
 - Shared on-street from Woodridge Drive to La Paseo Street
- City of Houston Bike Plan **Proposed** Bike Routes:
 - Dedicated on-street from South Loop Fwy E to Belfort Ave



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19

19

Public Transportation

- Existing METRO Bus Route 40 along Telephone Rd



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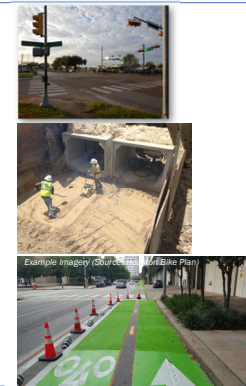
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20

20

Project Elements Under Consideration

- Reconstruction and reconfiguration of the roadway
- Access management considerations
- Expanded pedestrian facilities
- Consideration of bicycle and public transportation elements
- Stormwater infrastructure upgrades
- Public utility (water/wastewater) improvements
- Improved lighting, traffic markings, and related signalization
- Street trees and other landscape features



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21

21

Project Schedule

Phase 1 – Now!

- Project Development
- Public Input

Phase 2 – Summer 2022

- Develop Alternative Design Solutions
- Public Input & Consensus – Date TBD (Check the website for more information!)

Phase 3 – Begin Fall 2022

- Pursue Funding Opportunities

Phase 4 – TBD / Determined by Funding

- Engineering & Design
- Construction

22

We want YOUR input!

Submit your comments regarding this project via:

✉ Email: TelephoneRoadReconstruction@gmail.com

🌐 Online: www.tirz8telephoneroad.com

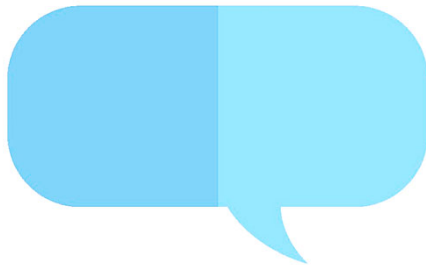
📄 Survey: Open now through Monday, June 13, 2022

English: <https://tinyurl.com/TelephoneRdSurvey>

Español: <https://tinyurl.com/EspanolTelephoneRdEncuesta>

23

Closing Remarks



24

Questions



25



THANK YOU

For more information:

<https://www.tirz8telephoneroad.com>

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26



THE GOODMAN CORPORATION

Telephone Road Reconstruction and Access Management Improvements Public Meeting Summary & Preliminary Survey Results

FOR

TIRZ 8 / Gulfgate Redevelopment Authority

May 12, 2022



Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY

PUBLIC MEETING SUMMARY

- May 10, 2022, 6:30 PM
- 33 Attended (26 Public / 5 consultant staff / 2 Directors)
 - City of Houston
 - City Council District I
 - Houston Airport System
 - Texas House District 145
 - McDonald's



- Outreach:
 - Email & phone calls to local, city, regional, State reps; Super Neighborhoods and civic groups; churches; schools; journalists
 - Facebook posts, Next Door, Reddit
 - Canvassed businesses on Telephone Road
- Questions & Comments:
 - Right of way, transit, bike lanes, mobility for students, flooding/drainage, scope of work, overlap with projects along Telephone Road corridor
- General attitude is positive 😊

PRELIMINARY SURVEY RESULTS

As of May 12, 2022: 50 Respondents

<https://tinyurl.com/TelephoneRdSurvey>

47 English / 3 Spanish

How often to do use Telephone Road?

- 50% use daily

How do you currently use Telephone Road?

- 75% live near Telephone Road
- 66% run errands
- 40% travel to a major destination

What are you most concerned about?

- Lighting, traffic & congestion, lack of landscaping

Safety / Protected from Crashes (1 – 100)

- Motorist: 39
- Pedestrian: 22
- Bicyclist: 18

In the future, how would you like to travel on Telephone Rd?

- 54% personal vehicle
- 30% bicycle
- 10% public transportation

What else should the project team consider?

- Landscaping, beautification, tree coverage
- Colorful corridor; design “theme”
- Pedestrian priorities, appropriate lighting, signage
- Traffic calming design; enforcement for speeding; congestion near schools/drive-thru
- Parking; pavement markings
- Drainage and flooding
- Population growth & development in the area
- Safety
- Mixed comments on bike lanes, public transit, light rail

Telephone Road - Survey Questions (survey open April-June 2022)

TIRZ 8 - Proposed Telephone Road Reconstruction Project

Reconstructing Telephone Road from S. Loop 610 Frontage Road to Reveille Street is an integral part of the Gulfgate area's growth and redevelopment.

Please take 5 minutes to complete this short survey. Your input is extremely valuable and will help shape the future of this project when funding is available.

For this survey, please consider the section of Telephone Road from S. Loop 610 Eastbound Frontage Road to Reveille Street, shown in red here:

1. How do you currently use Telephone Road (between S. Loop 610 and Reveille Street)? Please check all that apply.

- I commute to school or work using Telephone Road.
- I work on Telephone Road.
- I live near Telephone Road.
- I run errands on Telephone Road.
- I use Telephone Road to get to a major destination (e.g., William P. Hobby Airport)
- Other (please specify)

- I do not use this portion of Telephone Road.

2. How often do you use this portion of Telephone Road?

- Daily
- 3-4 times per week
- 1-2 times per week
- 1-2 times per month
- Never
- Other (please specify)

3. How do you most frequently travel along this portion of Telephone Road?

- Drive my own vehicle.
- Public Transportation
- Walk
- Other (please specify)

Bike

I do not use this portion of Telephone Road.

4. What are you most concerned about this along this section of Telephone Road (between S. Loop 610 and Reveille Street)? Please rank the following choices (1 - most concerned).



The corridor is dangerous due to traffic.



Telephone Road is not well lit at night.



There are no bicycle facilities along the corridor.



Access to public transportation is insufficient along the corridor.



There is a lack of landscaping and other aesthetic elements along the corridor.



The corridor floods during rain and storm events.



There is not enough parking along the corridor.



There is too much congestion during peak hour along the corridor.

TELEPHONE ROAD



Existing Conditions

Telephone Rd. provides north-south connectivity from IH-45 to Beltway 8. Variations in the existing cross section include:

- IH 610 to Park Place Blvd.: 4-lane Thoroughfare with 100' right-of-way and center turn lane.
- Park Place Blvd. to E Orem Dr.: 6-lane median divided Principal Thoroughfare with 120' right-of-way.
- E Orem Dr. to Beltway 8: 6-lane Principal Thoroughfare with 120' right-of-way and center turn lane.

Sidewalks are either nonexistent or in need of repair north of Park Place Blvd. METRO operates a local bus route along the corridor until Airport Blvd., accessing Hobby Airport Transit Center. There is an on-street bikeway proposed for this corridor. Land use is a mix of commercial, industrial, and public and institutional uses abutting the corridor.

Improvement Needs

The intersection of Telephone Rd./Reveille St. at Bellfort St. was identified as the highest crash location throughout the study area. Based on modeling, traffic volume along this corridor is expected to be significant into 2040. Improving pedestrian amenities with wide sidewalks, ADA compliant ramps, and bicycle infrastructure will enhance pedestrian connectivity and safety.

Existing Conditions		Future Conditions	
Lanes	4-6	MTFP Designation	T-4-100/P-6-120
Existing Counts Range	25,000 - 39,900	Future Volume Range	6,600 - 58,000
Right-of-Way	100' - 120'	Multimodal Class	Commercial Mixed-Use Blvd - Industrial Blvd
Median/CTL/Undivided	Median/CTL	Median/CTL	Median/CTL



Completing the sidewalk gaps between Airport Blvd. and Alameda Genoa Rd. would enhance pedestrian connectivity in this area. Improved sidewalk infrastructure is also needed north of Park Place Blvd.

Public comment indicated pavement failure due to truck traffic near the intersection of Telephone Rd./Reveille St. at Bellfort St. Other comments indicated safety concerns due to congestion around Ortiz Middle School.

Recommendations

Based on projected traffic volumes, Telephone Rd. should remain a 4-lane Thoroughfare from IH 610 to Park Place Blvd., and a 6-lane Principal Thoroughfare from Park Place Blvd. to Beltway 8. A median with left turn bays is recommended north of Park Place Blvd. and south of Braniff St. to improve access management. A shared-use path should be provided along the west side with a 5' sidewalk along the east side for the length of the corridor. Connection to Sims Bayou Greenway should be prioritized. Long Term improvements include the continuation of the Light Rail Purple Line accessing Hobby Airport from Long Dr. to Bellfort St. Further study is recommended for light rail transit feasibility along this corridor.

COST: \$3.0M
planning level cost estimate