Kimley-Horn and Associates, Inc. **Priority: 2**
Project Description for Signalized Intersection

Client: Town of Addison **Date: 1/2/18**
Program: ADA Self-Evaluation and Transition Plan **Prepared By: CMP**
KHA No.: 063543021 **Checked By: EPE**

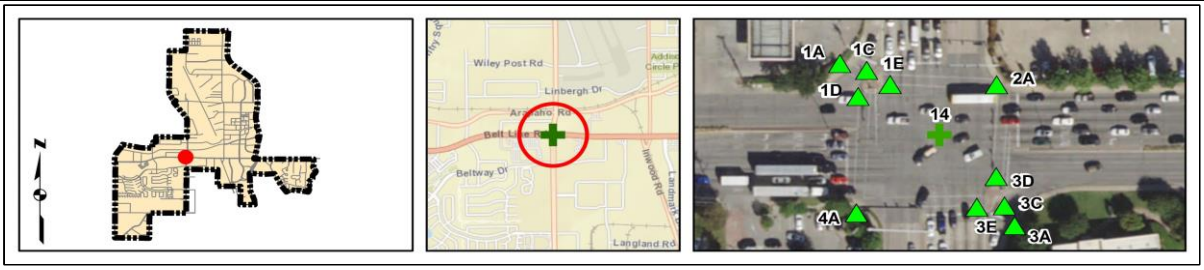
Corridor : Belt Line Rd **GPS ID: 14**
Project Name: Intersection of Belt Line Rd and Midway Rd
Town: Addison

Item No.	Item Description	Quantity	Unit	Unit Price	Item Cost
TxDOT 110-6001	EXCAVATION (ROADWAY)	0	CY	$ 10.00	$ -
TxDOT 529-6002	CONC CURB (TY II)	0	LF	$ 15.00	$ -
TxDOT 531-6001	CONC SIDEWALKS (4")	28	SY	$ 45.00	$ 1,260.00
TxDOT 531	CURB RAMPS	8	EA	$ 1,500.00	$ 12,000.00
TxDOT 5003-6002	RETROFIT DET WARN SURF (CAST IN PLACE)	10	SF	$ 50.00	$ 500.00
TxDOT 104-6015	REMOVING CONC (SIDEWALKS)	117	SY	$ 9.00	$ 1,053.00
TxDOT 687-6002	PEDESTRIAN PUSH BUTTON POLE	4	EA	$ 1,400.00	$ 5,600.00
TxDOT 677	ELIM EXT PAVE MRK & MRKS	0	LF	$ 2.80	$ -
TxDOT 666/678	REFL PAV MRK PREP, TY I & TY II (W) 24"(SLD)	901	LF	$ 8.50	$ 7,658.50
TxDOT 688-6001	PED DETECT PUSH BUTTON (APS)	6	EA	$ 1,300.00	$ 7,800.00
TxDOT 690-6030	REMOVAL OF PEDESTRIAN PUSH BUTTONS	6	EA	$ 125.00	$ 750.00
---	RELOCATE PEDESTRIAN PUSH BUTTONS	2	EA	$ 300.00	$ 600.00
TxDOT 682-6018	PED SIG SEC (LED) (COUNTDOWN)	0	EA	$ 500.00	$ -
---	PEDESTRIAN PUSH BUTTON SIGN	2	EA	$ 150.00	$ 300.00
---	REMOVE PEDESTRIAN PUSH BUTTON SIGN	2	EA	$ 50.00	$ 100.00
---	REPAVE ROADWAY	4	LS	$ 5,000.00	$ 20,000.00
---	FIX PONDING	2	LS	$ 2,000.00	$ 4,000.00
---	FIX CURB RAMP TRANSITION	3	LS	$ 2,000.00	$ 6,000.00
---	MEDIAN NOSE MODIFICATION	0	LS	$ 5,000.00	$ -
---	REMOVE TEMPORARY OBSTRUCTION	1	LS	$ 500.00	$ 500.00
---	FIX CURB RAMP COUNTER SLOPE	0	LS	$ 2,000.00	$ -

Basis for Cost Projection
- ☑ No Design Completed
- ❑ Preliminary Design
- ❑ Final Design

Subtotal:		$ 68,121.50
Engineering: (% +/-)	20%	$ 13,939.25
Contingency: (% +/-)	20%	$ 13,939.25
Estimated Project Cost:		**$ 96,000.00**

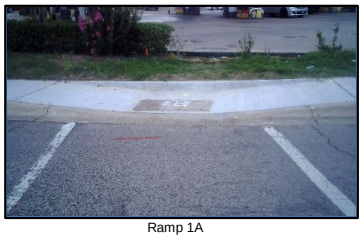
Project Location

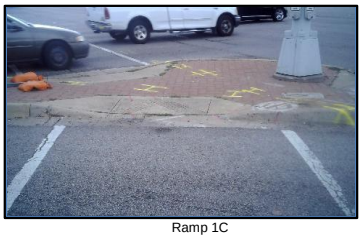


Field Observations

Intersection Issues	Crosswalk N	Crosswalk E	Crosswalk S	Crosswalk W	Possible Solutions
Path of travel pavement condition	Dangerous	Dangerous	Dangerous	Poor	Repave roadway and install crosswalk pavement markings
Path of travel running slope is greater than 5%					
Path of travel cross slope is greater than 5%					
Crosswalk width is less than 6'					Remove and replace crosswalk pavement markings
Crosswalk striping condition	Worn	Worn	Worn	Good	

Curb Ramp Issues	Curb Ramp ID ('z' or 'i' in ramp label indicates no existing ramp) 1A	1C	1D	1E	2A	3A	3C	3D	3E	4A	Possible Solutions
Curb ramp does not exist and is needed		X	X	X				X	X		Remove and replace curb ramp
Curb ramp does not land in crosswalk											
No 4' x 4' clear space at base of curb ramp											
Curbed side is not 90° or has traversable adjacent surface											
Flare cross slope is greater than 10%		X	X	X	X	X		X	X		
Curb ramp running slope is greater than 8.3%	X				X	X			X		
Blended transition running slope is greater than 5%											
Cut-thru ramp running slope is greater than 5%											
Curb ramp cross slope is greater than 2%					X	X			X		
Cut-thru ramp cross slope is greater than 5%											
Curb ramp width is less than 48"											
Cut-thru ramp width is less than 60"											
Permanent obstruction (>0.25") in curb ramp/landing/flares				X							
Temporary obstruction (>0.25") in curb ramp/landing/flares				X							Remove temporary obstruction
No textured surface at base of curb ramp		X	X	X	X	X	X	X	X		For intersection, commercial driveway, and park ramps, install color truncated domes
No color contrast at base of curb ramp						X					
Landing area does not exist and is needed											
Landing area is less than 5' x 5' or slopes greater than 2%	X	X	X	X	X	X	X	X	X		Remove and replace landing area
Missing or no pedestrian push buttons											
Pedestrian push button is offset more than 5' from the nearest crosswalk edge					X						Install push button pole and relocate pedestrian push buttons
Pedestrian push button offset more than 10' from curb face										X	
Pedestrian push button is not parallel to crosswalk											
Pedestrian push button height is greater than 48"											
Pedestrian push button diameter is not 2"			X	X	X			X	X		Remove PBs and replace with APS push buttons
Pedestrian push button sign does not exist											
Pedestrian push button sign is not MUTCD approved										X	Remove and replace pedestrian push button sign
Clear floor space does not exist and is needed					X						Install clear floor space
Clear floor space for pedestrian push button is less than 30" x 48" or has a slope greater than 2%			X	X	X			X	X	X	Remove and replace clear floor space
Missing or no pedestrian signal heads											
Curb ramp transition onto roadway is greater than 0.25"				X	X			X			Fix curb ramp transition
Counter slope of the gutter or street at the foot of the curb ramp is greater than 5%											
Ponding occurs at base of curb ramp		X					X				Fix ponding


Ramp 1A


Ramp 1C


Ramp 1D


Ramp 1E


Ramp 2A


Ramp 3A


Ramp 3C


Ramp 3D


Ramp 3E


Ramp 4A

Curb Ramp Recommendation Details:

Types 1-11 (Standard Corner Ramp)	8	EA
Type 20 (Median Ramps with Shared Landing)	0	EA
Type 21 (Median Cut-thru Ramp)	0	EA
Type 22 (Channelizing Island Cut-thru Ramp)	0	EA

Opinion of Probable Construction Cost Disclaimer:

The Engineer has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Engineer at this time and represent only the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

Project Location Map Sources:

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, DigitalGlobe, GeoEye, i-cubed, USDA, AEX, Getmapping, Aerogrip, IGN, IGP, swisstopo, and the GIS User Community

End of Project Description for Project 14 Intersection of Belt Line Rd and Midway Rd