



PROJECT FOR
**City of West University Place,
Texas**

**Buffalo Speedway Pavement
Improvements**

MARK	DATE	DESCRIPTION

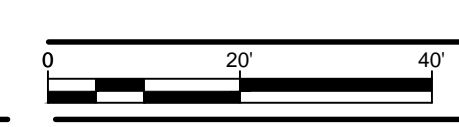
PROJECT NUMBER	
ORIGINAL ISSUE	
PROJECT MANAGER	
PROJECT DESIGNER	
PROJECT ARCHITECT	
LANDSCAPE ARCHITECT	
CIVIL ENGINEER	
STRUCTURAL ENGINEER	
MECHANICAL ENGINEER	
ELECTRICAL ENGINEER	
INTERIOR DESIGNER	
EQUIPMENT PLANNER	
WAYFINDING	
DRAWN BY	

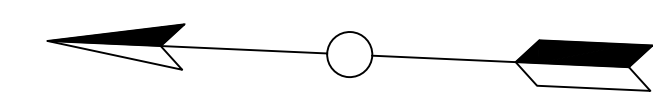
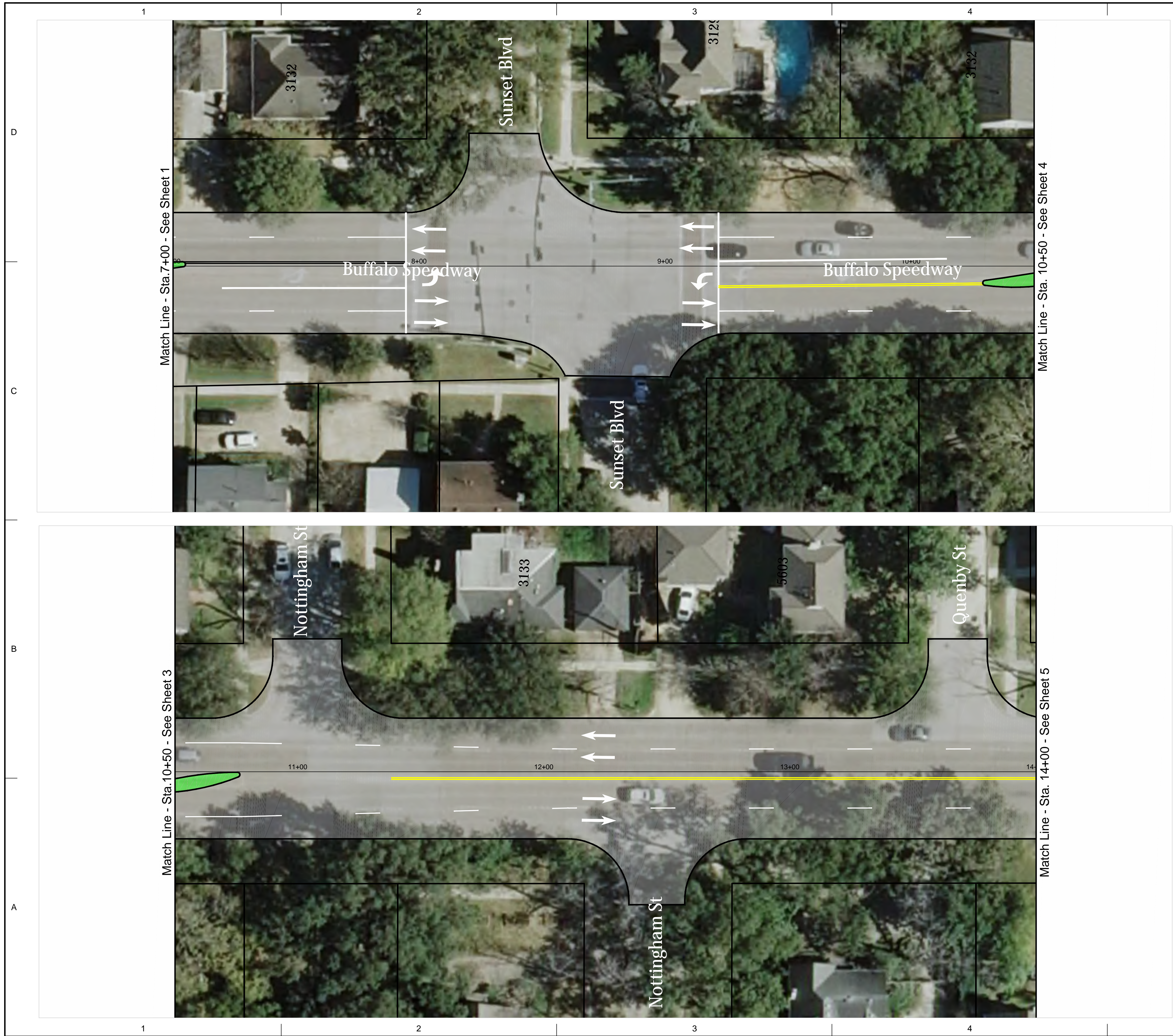
SHEET NAME
**Buffalo Speedway
Sta. 0+00 to Sta. 7+00
Plan**

SCALE | 1" = 20'

SHEET NUMBER
1

FILE NAME |





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WAYFINDING	
DRAWN BY	

SHEET NAME

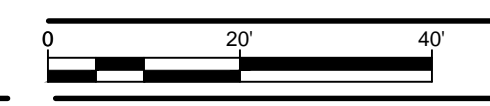
**Buffalo Speedway
Sta. 7+00 to Sta. 14+00
Plan**

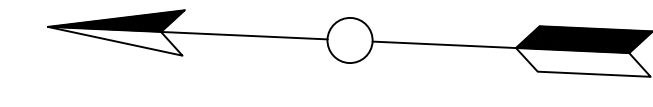
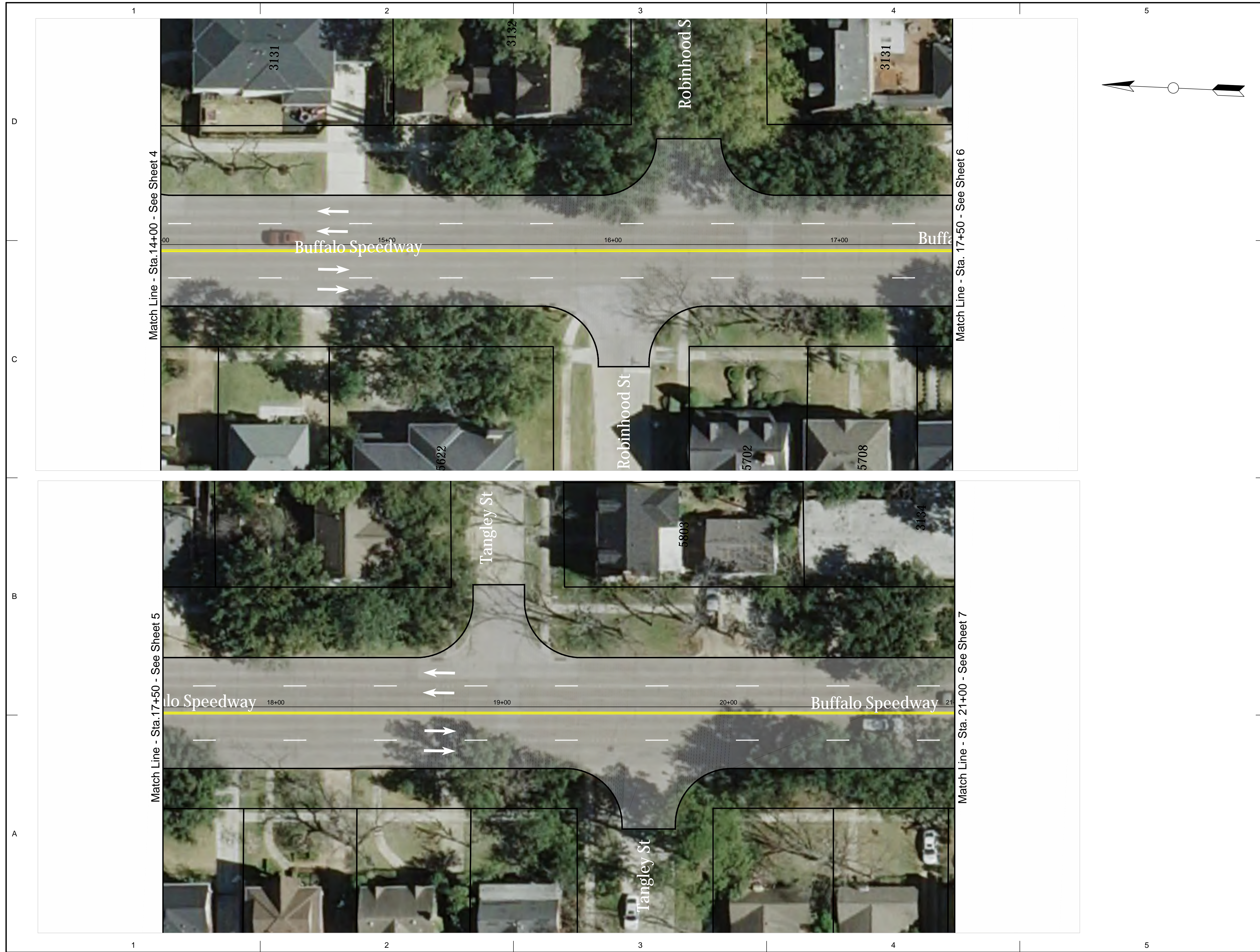
SCALE | 1" = 20'

SHEET NUMBER

2

FILE NAME |





Texas P.E. Firm
Registration No. F-754

PROJECT FOR
**City of West University Place,
Texas**

**Buffalo Speedway Pavement
Improvements**

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ELECTRICAL ENGINEER	
INTERIOR DESIGNER	
EQUIPMENT PLANNER	
WAYFINDING	
DRAWN BY	

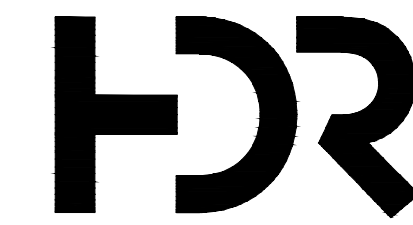
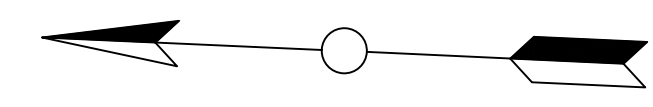
SHEET NAME
**Buffalo Speedway
Sta. 14+00 to Sta. 21+00
Plan**

SCALE | 1" = 20'

SHEET NUMBER
3

FILE NAME |





Texas P.E. Firm
Registration No. F-754

PROJECT FOR
**City of West University Place,
Texas**
**Buffalo Speedway Pavement
Improvements**

MARK	DATE	DESCRIPTION

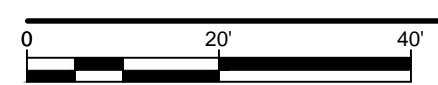
MARK	DATE	DESCRIPTION
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PROJECT DESIGNER		
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LANDSCAPE ARCHITECT		
CIVIL ENGINEER		
STRUCTURAL ENGINEER		
MECHANICAL ENGINEER		
ELECTRICAL ENGINEER		
INTERIOR DESIGNER		
EQUIPMENT PLANNER		
WAYFINDING		
DRAWN BY		

SHEET NAME
**Buffalo Speedway
Sta. 21+00 to Sta. 28+00
Plan**

SCALE | 1" = 20'

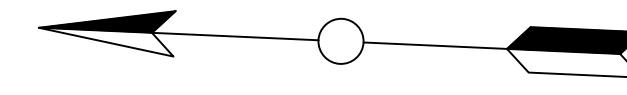
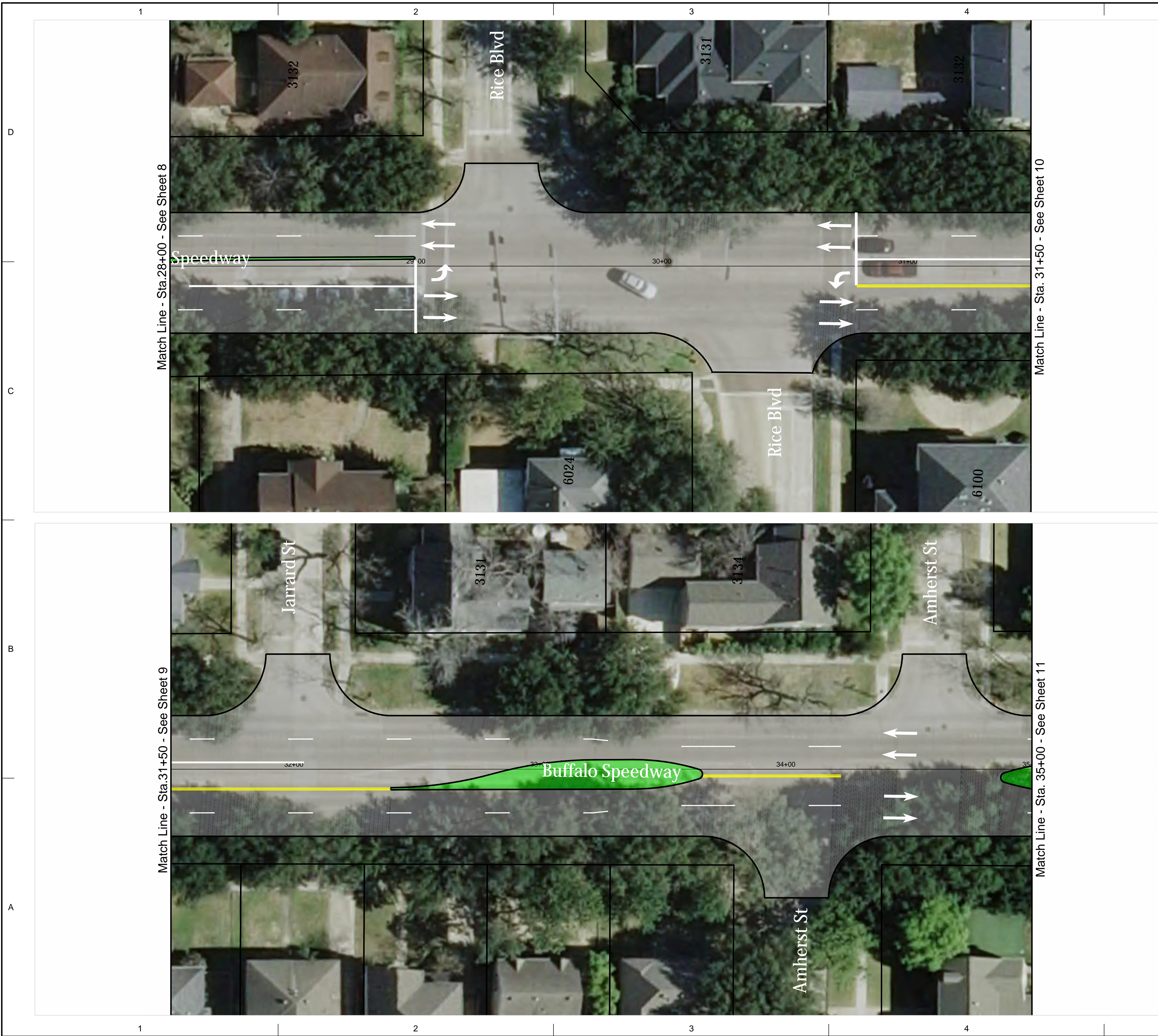
SHEET NUMBER
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FILE NAME |



Buffalo Spdwy-1.dwg

3/19/2007



PROJECT FOR
**City of West University Place,
 Texas**
**Buffalo Speedway Pavement
 Improvements**

MARK	DATE	DESCRIPTION

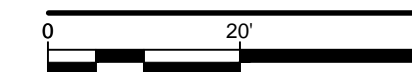
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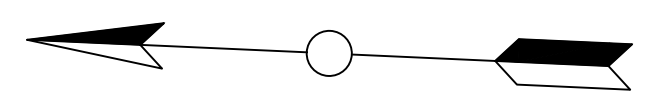
SHEET NAME
**Buffalo Speedway
 Sta. 28+00 to Sta. 35+00
 Plan**

SCALE | 1" = 20'

SHEET NUMBER
5

FILE NAME |





PROJECT FOR
City of West University Place,
Texas
Buffalo Speedway Pavement
Improvements

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LANDSCAPE ARCHITECT	
CIVIL ENGINEER	
STRUCTURAL ENGINEER	
MECHANICAL ENGINEER	
ELECTRICAL ENGINEER	
INTERIOR DESIGNER	
EQUIPMENT PLANNER	
WAYFINDING	
DRAWN BY	

SHEET NAME
**Buffalo Speedway
Sta. 35+00 to Sta. 42+00
Plan**

A SCALE | 1" = 20'

SHEET NUMBER
6

FILE NAME |



1

2

3

4

5

D

C

B

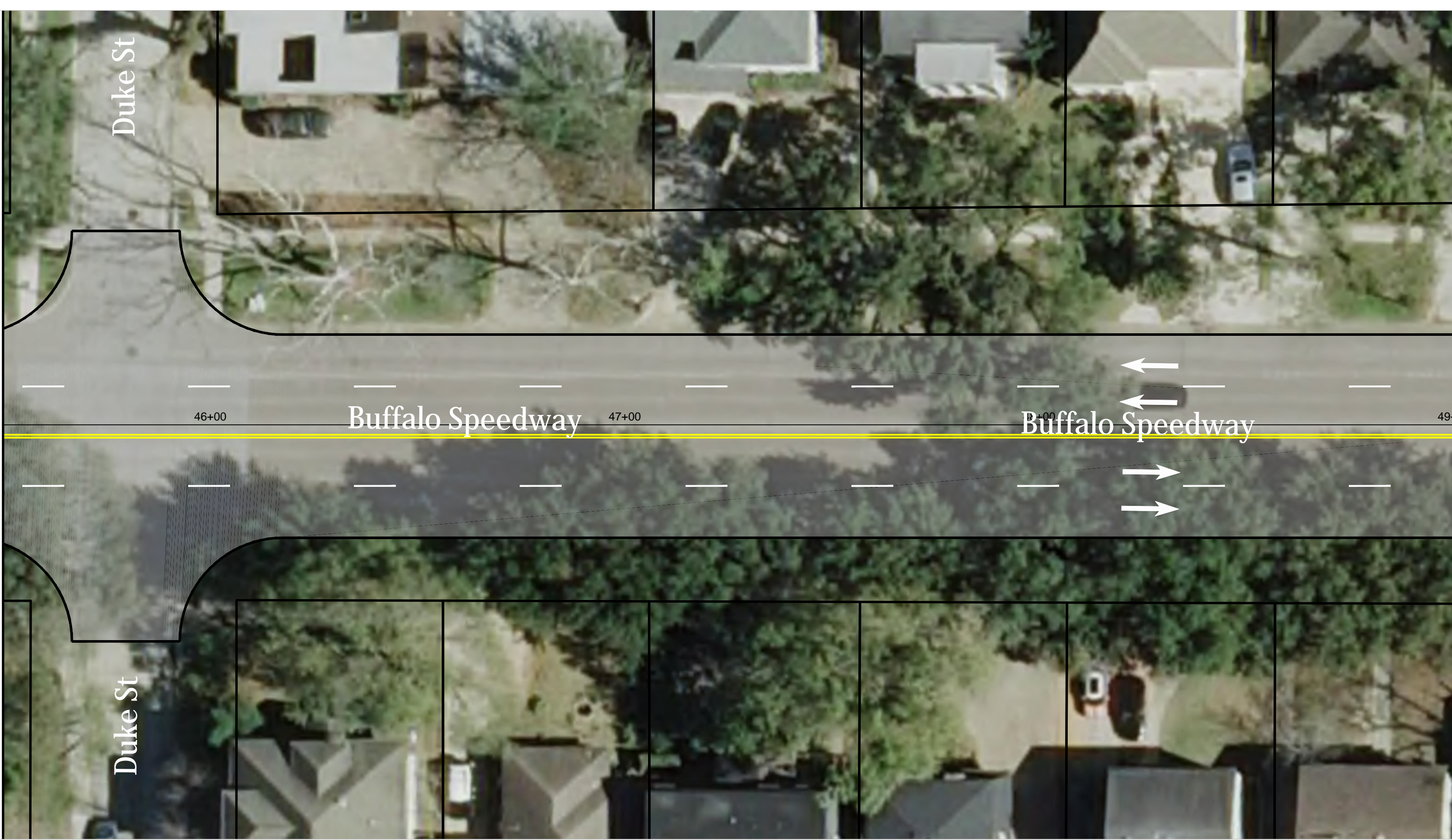
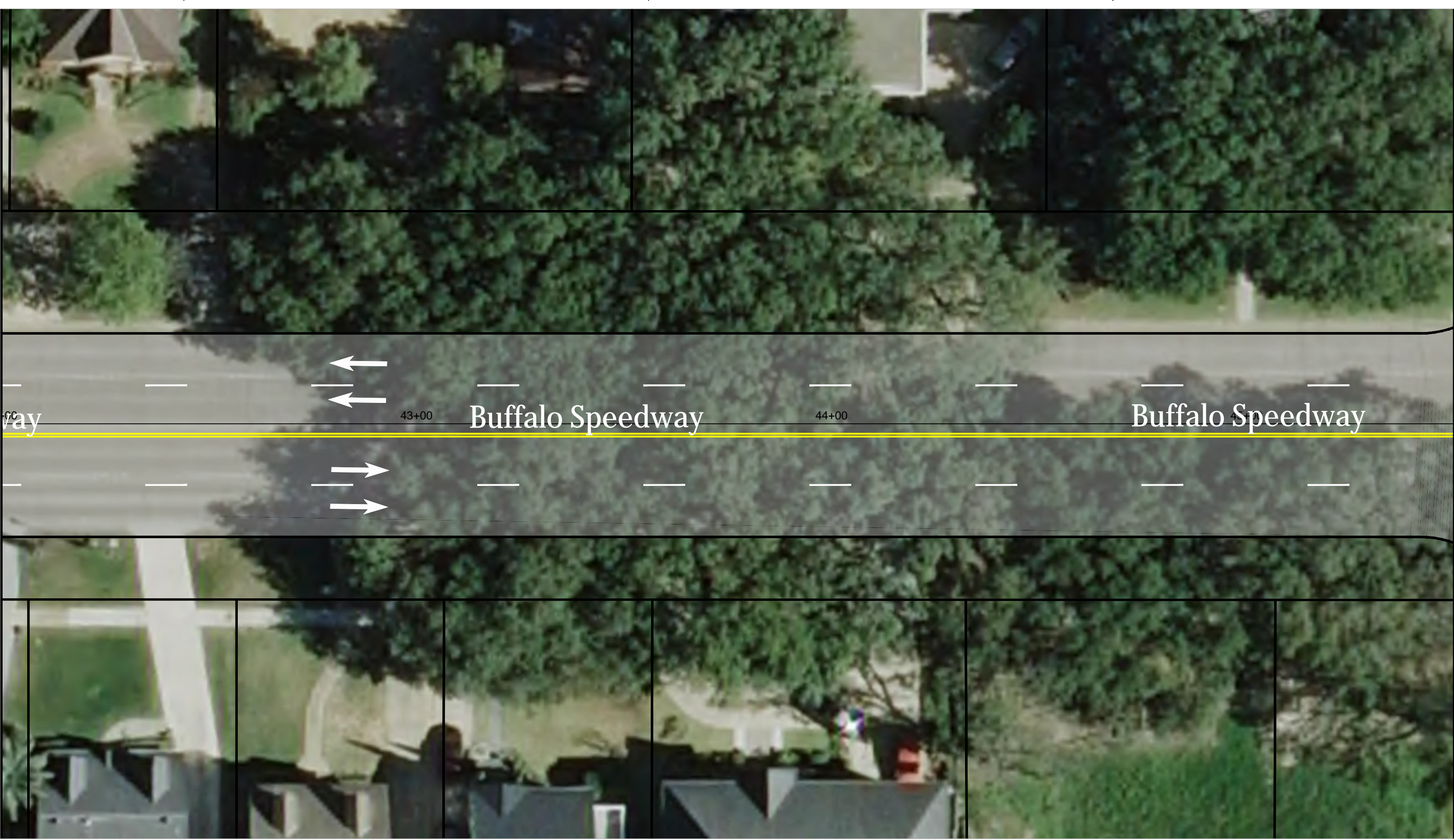
A

Match Line - Sta. 42+00 - See Sheet 12

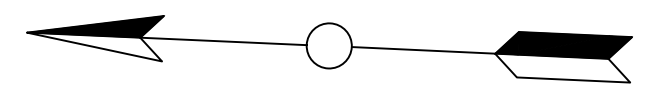
Match Line - Sta. 45+50 - See Sheet 14

Match Line - Sta. 45+50 - See Sheet 13

Match Line - Sta. 49+00 - See Sheet 15



Texas P.E. Firm
Registration No. F-754



D

C

B

A

PROJECT FOR
**City of West University Place,
Texas**

**Buffalo Speedway Pavement
Improvements**

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ELECTRICAL ENGINEER	
INTERIOR DESIGNER	
EQUIPMENT PLANNER	
WAYFINDING	
DRAWN BY	

SHEET NAME

**Buffalo Speedway
Sta. 42+00 to Sta. 49+00
Plan**

SCALE | 1" = 20'

SHEET NUMBER
7

FILE NAME



1

2

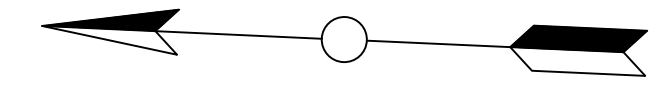
3

4

5

Buffalo Spdwy-1.dwg

3/19/2007



PROJECT FOR
**City of West University Place,
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**Buffalo Speedway Pavement
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INTERIOR DESIGNER	
EQUIPMENT PLANNER	
WAYFINDING	
DRAWN BY	

SHEET NAME
**Buffalo Speedway
 Sta. 49+00 to Sta. 56+00
 Plan**

SCALE | 1" = 20'

SHEET NUMBER
8

FILE NAME |



1

2

3

4

5

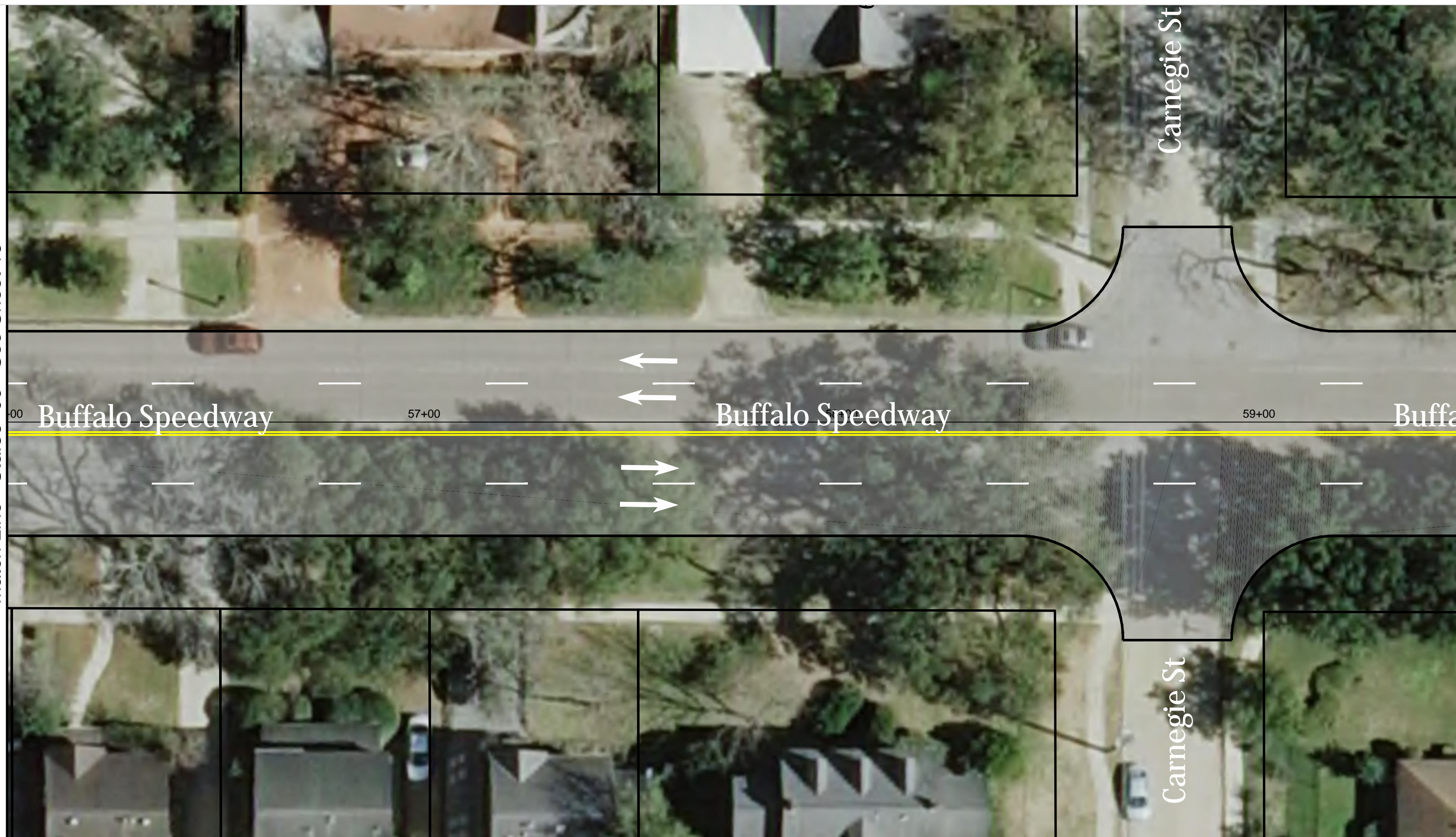
D

C

B

A

Match Line - Sta. 56+00 - See Sheet 16



Match Line - Sta. 59+50 - See Sheet 18

Match Line - Sta. 59+50 - See Sheet 17



Match Line - Sta. 63+00 - See Sheet 19

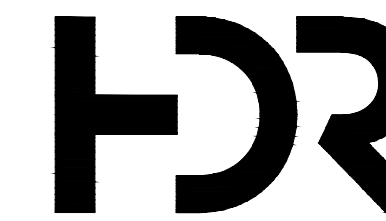
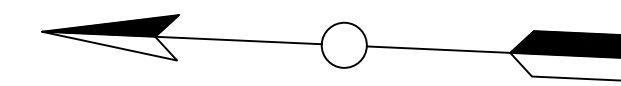
1

2

3

4

5



Texas P.E. Firm
Registration No. F-754

PROJECT FOR

**City of West University Place,
Texas**

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Improvements**

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EQUIPMENT PLANNER	
WAYFINDING	
DRAWN BY	

SHEET NAME

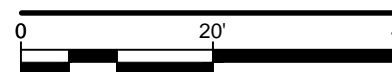
**Buffalo Speedway
Sta. 56+00 to Sta. 63+00
Plan**

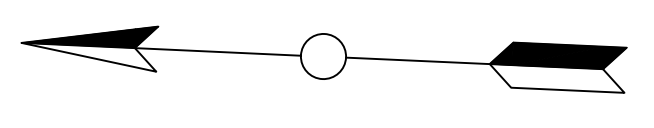
SCALE | 1" = 20'

SHEET NUMBER

9

FILE NAME





PROJECT FOR
**City of West University Place,
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 Improvements**

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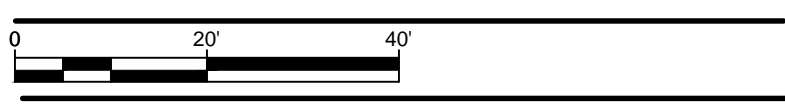
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PROJECT DESIGNER	
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INTERIOR DESIGNER	
EQUIPMENT PLANNER	
WAYFINDING	
DRAWN BY	

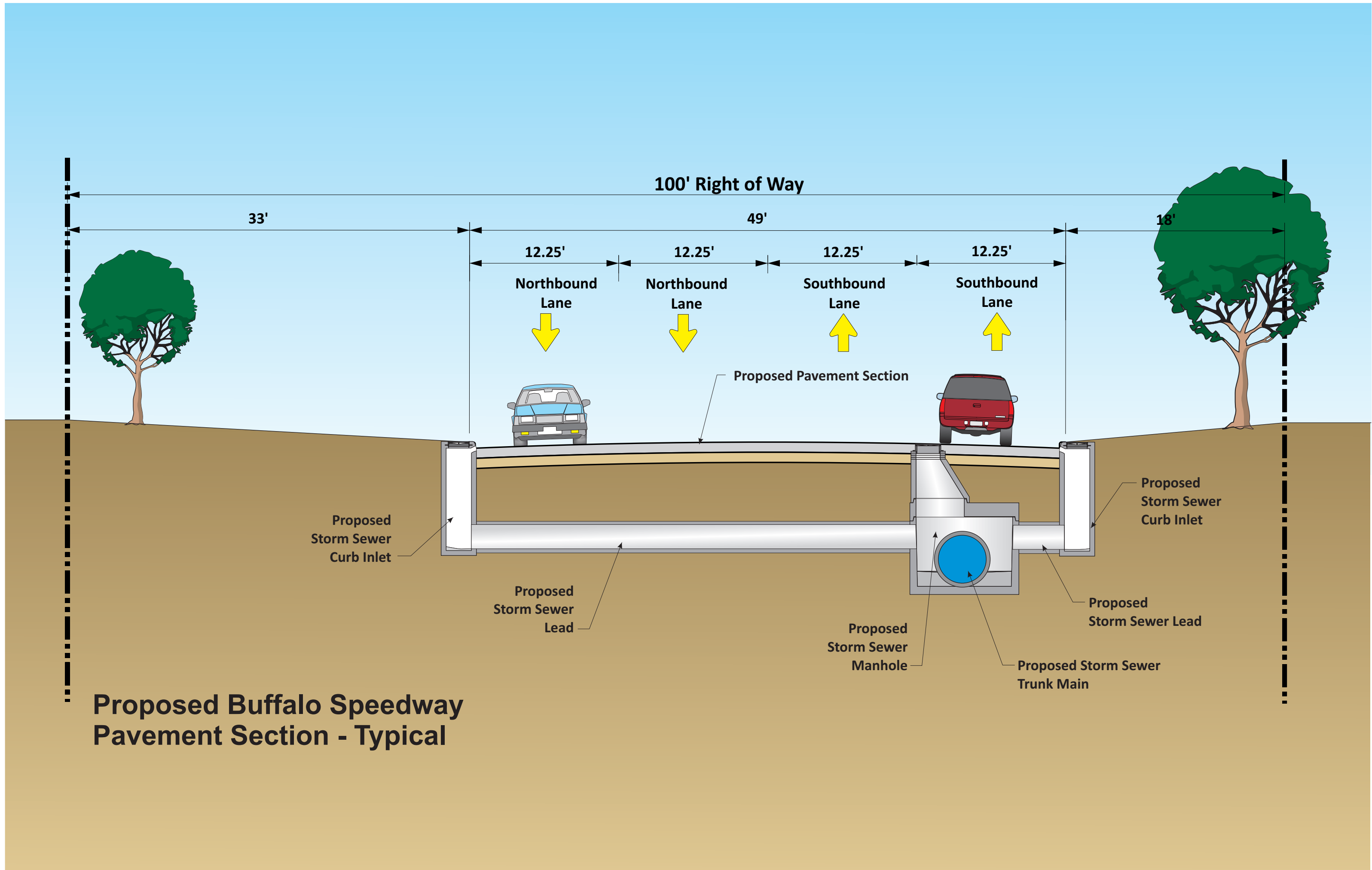
SHEET NAME
**Buffalo Speedway
 Sta. 63+00 to Sta. 70+00
 Plan**

SCALE | 1" = 20'

SHEET NUMBER
10

FILE NAME |





100' Right of Way

33'

49'

18'

12.25'

12.25'

12.25'

12.25'

Northbound Lane

Northbound Lane

Southbound Lane

Southbound Lane

Proposed Pavement Section

Proposed Storm Sewer Curb Inlet

Proposed Storm Sewer Curb Inlet

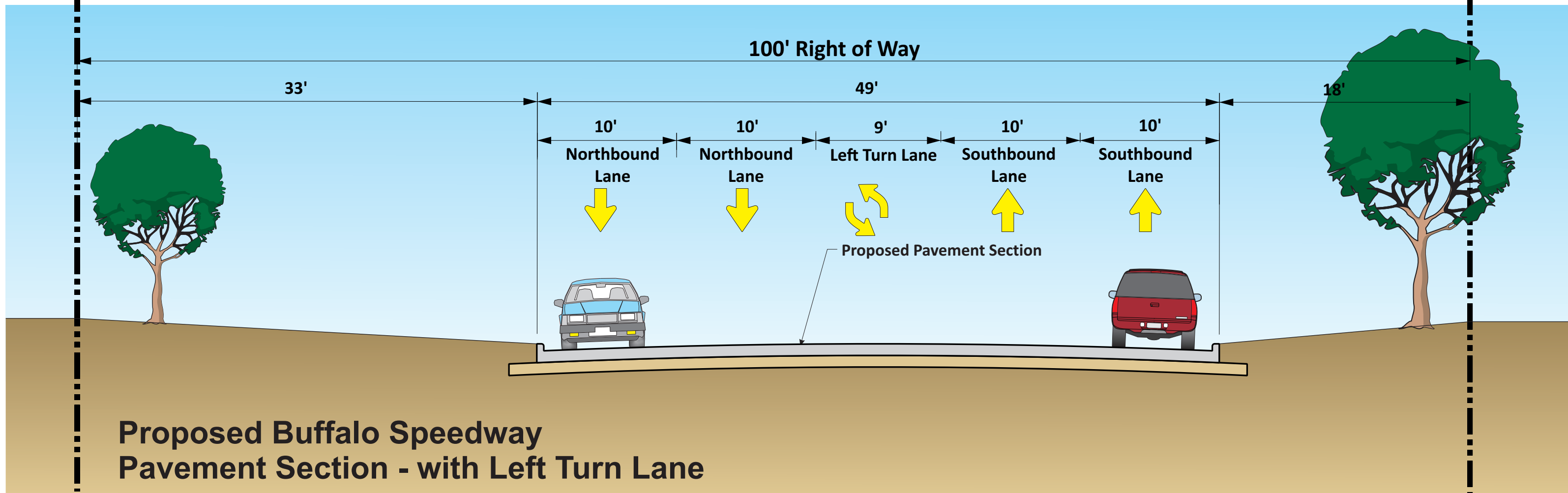
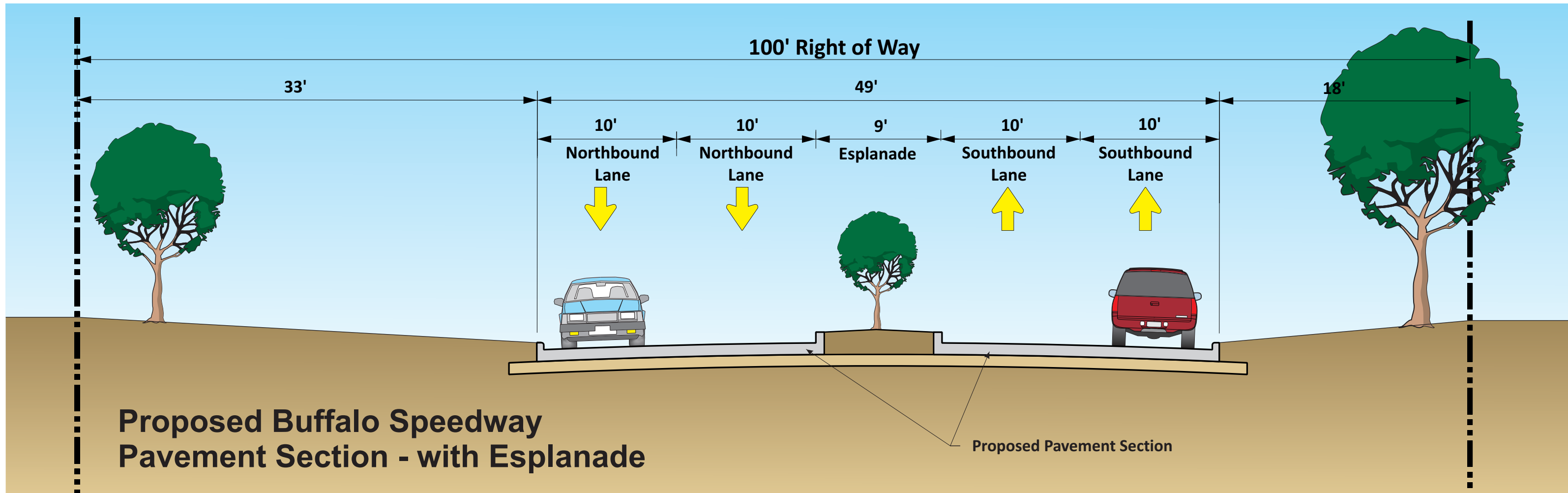
Proposed Storm Sewer Lead

Proposed Storm Sewer Lead

Proposed Storm Sewer Manhole

Proposed Storm Sewer Trunk Main

**Proposed Buffalo Speedway
Pavement Section - Typical**

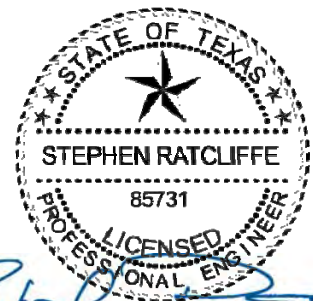


PRELIMINARY PAVEMENT ASSESSMENT
for
**THE CITY OF WEST UNIVERSITY PLACE
TEXAS**
BUFFALO SPEEDWAY



May, 2010

Prepared by:



Stephen Ratcliffe
5/19/2010

HDR | **CLAUNCH & MILLER**
Engineering Consultants

HDR|Claunch & Miller
Engineering Consultants
4635 SW Freeway, Suite 1000
Houston, Texas 77027

HDR Engineering Inc. Texas Reg. No. 754

May 19, 2010

Mr. Patrick Walters
City of West University Place
3826 Amherst
West University Place, TX 77005

Mr. Walters,

Re: Buffalo Speedway Pavement Assessment Report

The City of West University Place (West U) (City) requested HDR|Claunch & Miller (HDR|C&M) to provide a preliminary pavement assessment for Buffalo Speedway from Holcombe Blvd (Bellaire Blvd) to Bissonnet Street. It is understood that the intent of this assessment is to provide West U with a budgetary cost estimate for potential repairs for inclusion into the City's budget.

HDR|C&M walked the length of Buffalo Speedway on both sides making a cursory, visual inspection of the road surface to make a preliminary assessment of potential repairs. Photographs were taken of the various repair locations, which were identified on Right of Way maps. Sheets 1 to 5 attached to this letter report indicate 42 locations where repairs may be desirable. Photographs of the various locations have been inserted onto the maps. Larger copies of the same photographs labeled with the appropriate location are also included in this report.

It was noted that there are numerous cracks in the road surface, too many to accurately document individually in this preliminary assessment. Many of the cracks are small or hairline which can be repaired by sealing with a tar based sealant to prevent the ingress of moisture. For the purposes of cost estimating we have included a nominal linear footage of sealant. Some of the roadway expansion joints also require cleaning out and replacing. As with the crack sealing we have included a nominal linear footage of joint replacement in the cost estimate.

It was also noted that there is apparent evidence that the roadway may have sunken in some locations since at some of the joints the pavement panel is about one inch lower than its adjacent panel. The observed locations of these "sunken joints" are noted on the maps and a nominal linear footage for slab jacking is included in the cost estimate.

Throughout the length of Buffalo Speedway there are numerous incidents of pavement "spawling" at joints, some more extensive than others. This report identifies the more extensive incidents which are included as a potential repair location on the maps.

Our preliminary recommendations include replacement of some pavement panels at various locations. These were assessed based on the number of cracks in the pavement, the size of the cracks, whether they appeared to be new or old cracks and other factors. Some of these may be considered by the City to be repairable with sealant but for the purposes of presenting a preliminary budget for repairs these have been included in the cost estimate as pavement panel replacement. Prior to performing repairs it is recommended that a more detailed inspection than that performed for this report be carried out.

The repair locations are tabulated below documenting the location, condition and suggested repair method. The repairs are quantified and included in the cost estimate also included as part of this report.

Repair Location Schedule

Location No.	Description	Recommendation for repair
1	Sunken joint, cracks	Replace ¼ panels – 150 LF
2	Spawling	Clean & repair with high strength grout
3	Large Cracks	Replace ¼ panels – 40 LF
4	Spawling	Clean & repair with high strength grout
5	Multiple cracks	Replace ¼ panel – 20 LF
6	Multiple cracks	Replace ¼ panel – 30 LF
7	Sunken joint, cracks	Replace ¼ panels – 70 LF
8	Spawling	Clean & repair with high strength grout
9	Spawling	Clean & repair with high strength grout
10	Large cracks	Replace ¼ panel – 25 LF
11	Spawling	Clean & repair with high strength grout
12	Large crack (previously sealed)	Replace ¼ panels – 60 LF
13	Storm inlet damage	Repair/Replace Inlet
14	Multiple cracks	Replace ¼ panel – 20 LF
15	Spawling at patch	Clean & repair with high strength grout
16	Spawling at patch	Clean & repair with high strength grout
17	Spawling & cracking	Replace ½ panel – 10 LF
18	Sunken pavers @ crosswalk	Re-bed pavers
19	Large cracks	Replace ¼ panel – 20 LF
20	Multiple cracks	Replace ¼ panel – 20 LF
21	Multiple cracks	Replace ¼ panels – 60 LF
22	Spawling on old & new pavement	Clean & repair with high strength grout
23	Storm inlet sunk & spawling	Replace inlet & repair spawling
24	Cracks	Replace ¼ panels – 40 LF
25	Large cracks	Replace ¼ panels – 40 LF, ½ panel 20 LF
26	Three cracked panels	Replace center ¼ panels – 70 LF
27	Spawling	Clean & repair with high strength grout
28	Multiple cracks	Replace ¼ panel – 25 LF
29	Cracked panels	Replace center ¼ panels – 70 LF
30	Cracks in panel adjacent to inlet	Replace ¼ panel – 25 LF
31	Multiple cracks	Replace ¼ panels – 45 LF
32	Multiple cracks	Replace ¼ panel – 25 LF

Location No.	Description	Recommendation for repair
33	Cracked panel @ inlet	Replace ¼ panel – 25 LF
34	Multiple cracks	Replace ¼ panel – 25 LF
35	Cracks	Replace center ¼ panels – 60 LF
36	Cracks	Replace ¼ panel – 10 LF
37	Multiple cracks	Replace ¼ panel – 20 LF
38	Two cracked panels	Replace ¼ panels – 60 LF
39	Two cracked panels	Replace ¼ panels – 60 LF
40	Large crack	Replace ¼ panel – 20 LF
41	Multiple cracks	Replace ¼ panels – 70 LF
42	Large crack in multiple panels	Replace ¼ panels – 150 LF

Notes:

- Linear footage (LF) is approximate only
- ¼ panel refers to single traffic lane (approx. 12 ft wide)
- ½ panel refers to double traffic lane (approx 24 ft wide)

A preliminary cost estimate has been prepared for the total project cost including construction and engineering. This cost may be higher or lower depending upon the final scope of the project and the extent of repair/replacement desired by the City. We have estimated that the total project cost, based on the information known at this time and the cursory inspection performed, will be approximately \$550,750. A breakdown of the costs is included as part of this letter report.

I trust that this report will meet your immediate needs, but should you require additional information or any adjustments please do not hesitate to contact me.

Sincerely,

HDR|Claunch & Miller
 (HDR Engineering Inc. Texas Reg. No. 754)

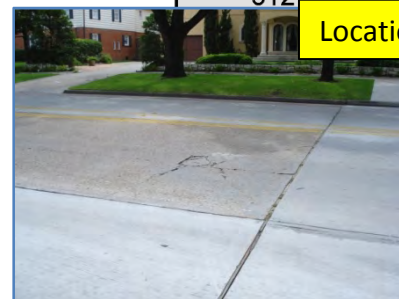
Stephen Ratcliffe, P.E.
 Senior Project Director.



**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
ENGINEER'S PRELIMINARY ESTIMATE OF PROBABLE CONSTRUCTION COST**

5/20/2010

ITEM NO	EST QUAN	UNIT	DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
1	1	LS	Mobilization	\$ 11,000.00	\$ 11,000.00
2	1950	SY	8" Pavement Replacement	\$ 85.00	\$ 165,750.00
3	10	EA	Spawling Repairs	\$ 200.00	\$ 2,000.00
4	1500	LF	Slab Jacking	\$ 50.00	\$ 75,000.00
5	10000	LF	Joint Repair	\$ 6.00	\$ 60,000.00
6	10000	LF	Crack Sealant	\$ 4.00	\$ 40,000.00
	2	EA	Storm Inlet	\$ 3,000.00	\$ 6,000.00
7	1	LS	SWPPP	\$ 2,000.00	\$ 2,000.00
8	1	LS	Traffic Control	\$ 2,000.00	\$ 2,000.00
					\$ -
SUB TOTAL					\$ 363,750.00
MISC UNIDENTIFIED CONSTRUCTION ITEMS 20%					\$ 72,800.00
TOTAL ESTIMATED CONSTRUCTION COST					\$ 436,550.00
ENGINEERING & SURVEY 15%					\$ 65,500.00
CONSTRUCTION INSPECTION 10%					\$ 43,700.00
CONSTRUCTION TESTING					\$ 5,000.00
TOTAL ESTIMATED PROJECT COST					\$ 550,750.00



Location 5



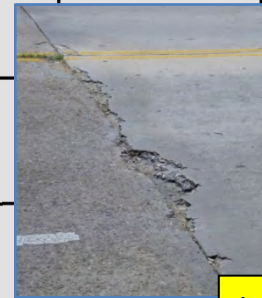
Location 6



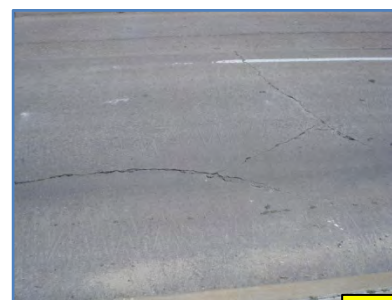
Location 7



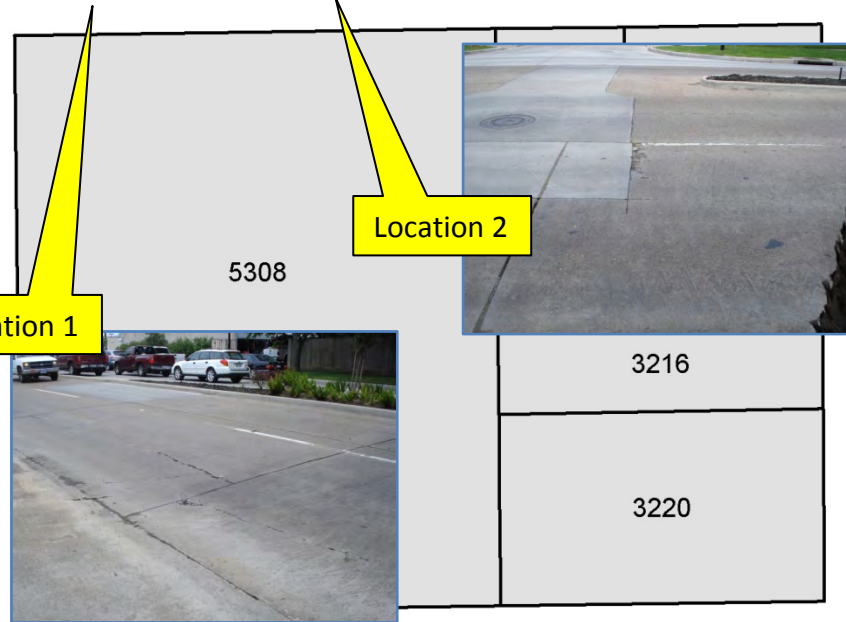
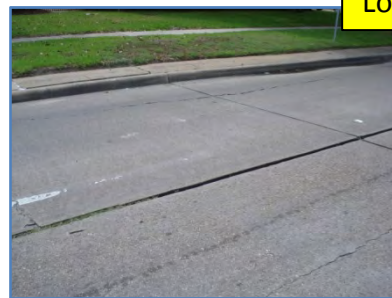
Location 8



Location 9



Location 1



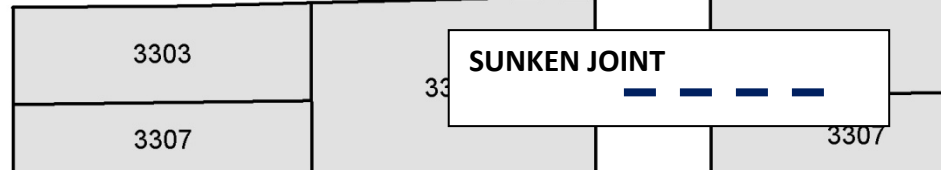
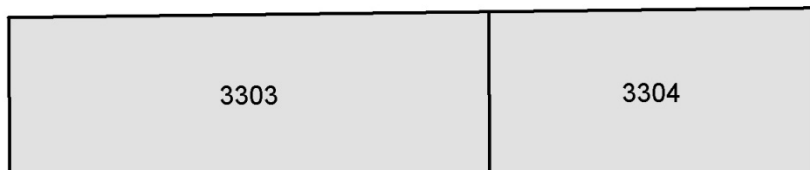
Location 2



Location 3

Location 4

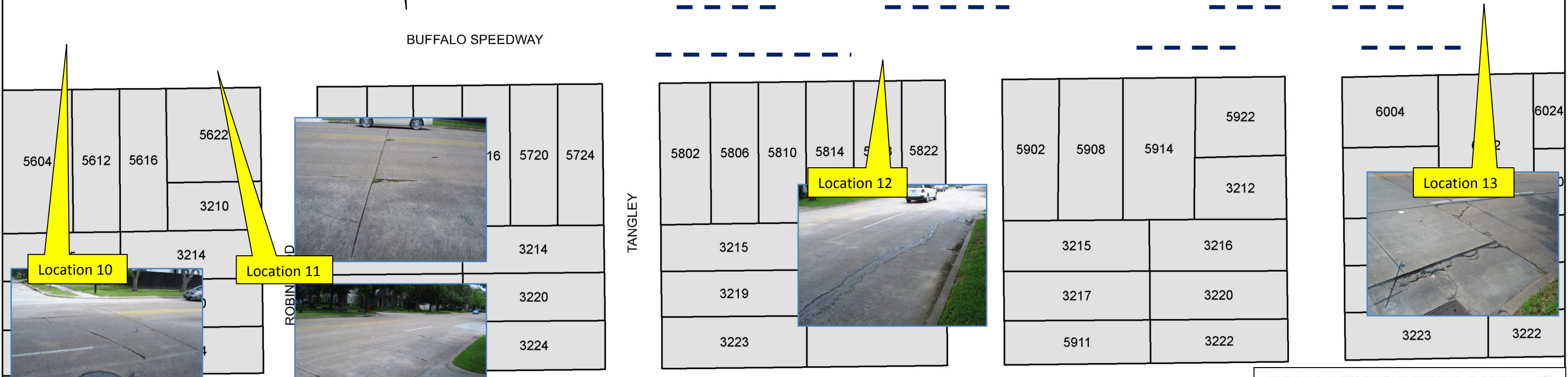
1" = 100'



SUNKEN JOINT

HDR | CLAUNCH & MILLER
Engineering Consultants

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT
ASSESSMENT



3303 3302 3301 3302 3303 3302 3303 3302

3309 3306 3305 3312 3305 3310 3315 3310

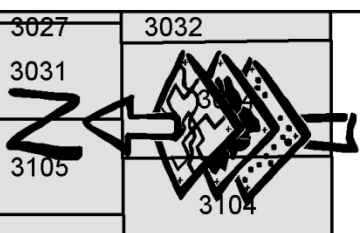
1" = 100'

SUNKEN JOINT

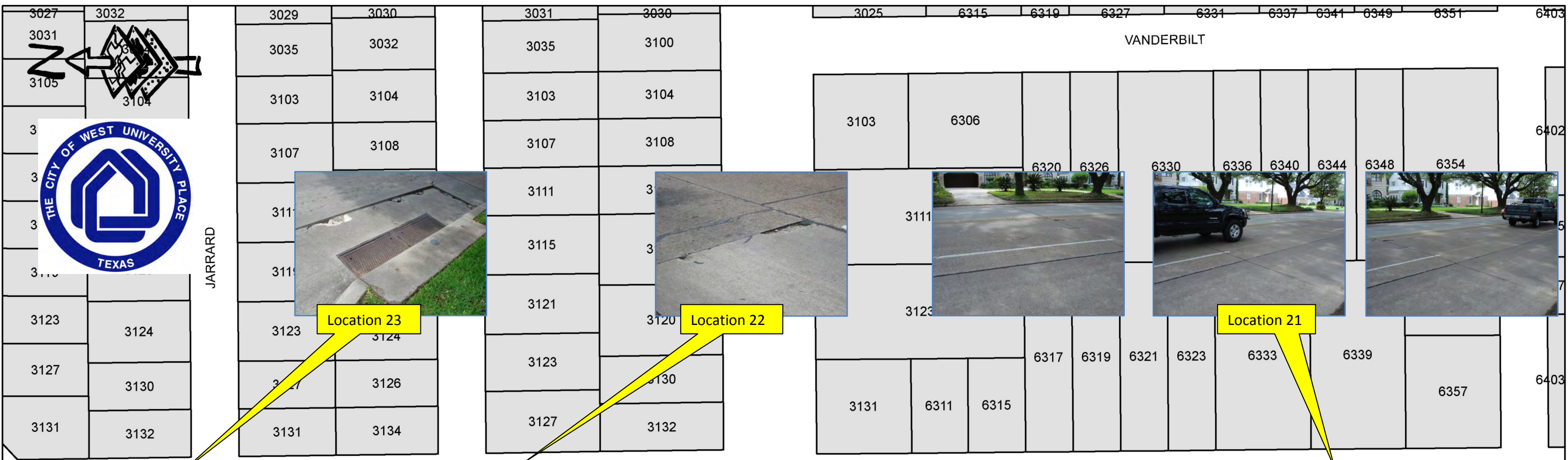
HDR | CLAUNCH & MILLER
Engineering Consultants

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT
ASSESSMENT

SHEET 2 OF 5



JARRARD



Location 23

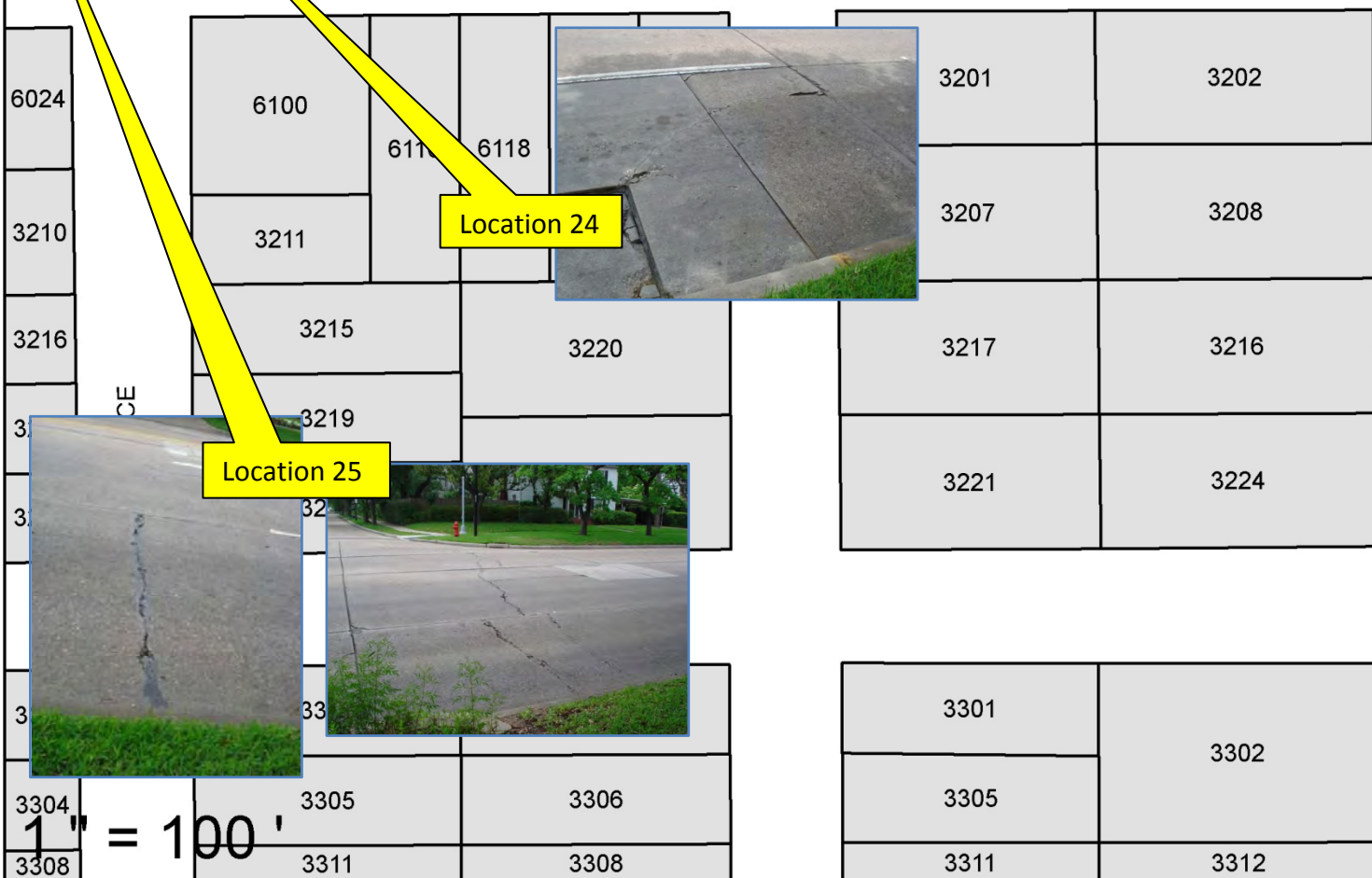


Location 22

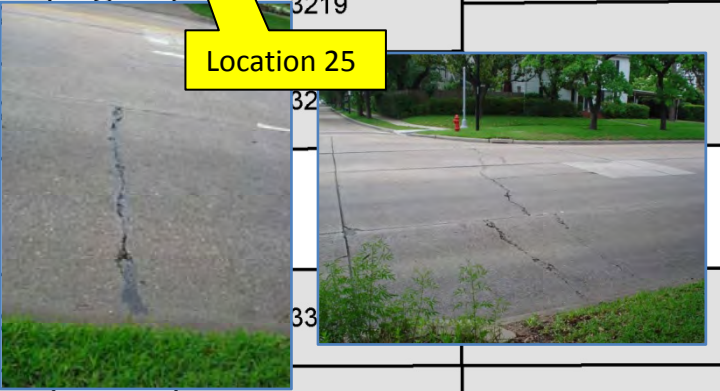


Location 21

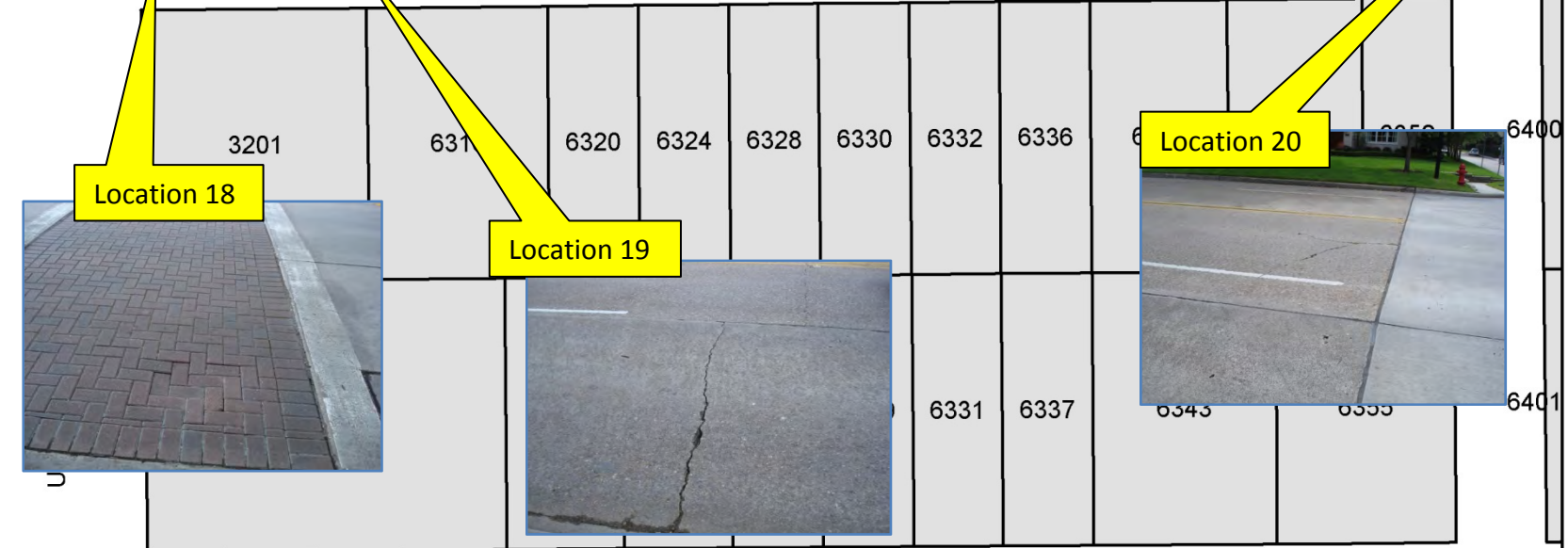
BUFFALO SPEEDWAY



Location 24



Location 25



Location 18



Location 19



Location 20

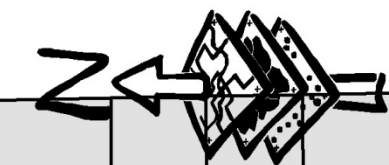
SUNKEN JOINT

HDR | **CLAUNCH & MILLER**
Engineering Consultants

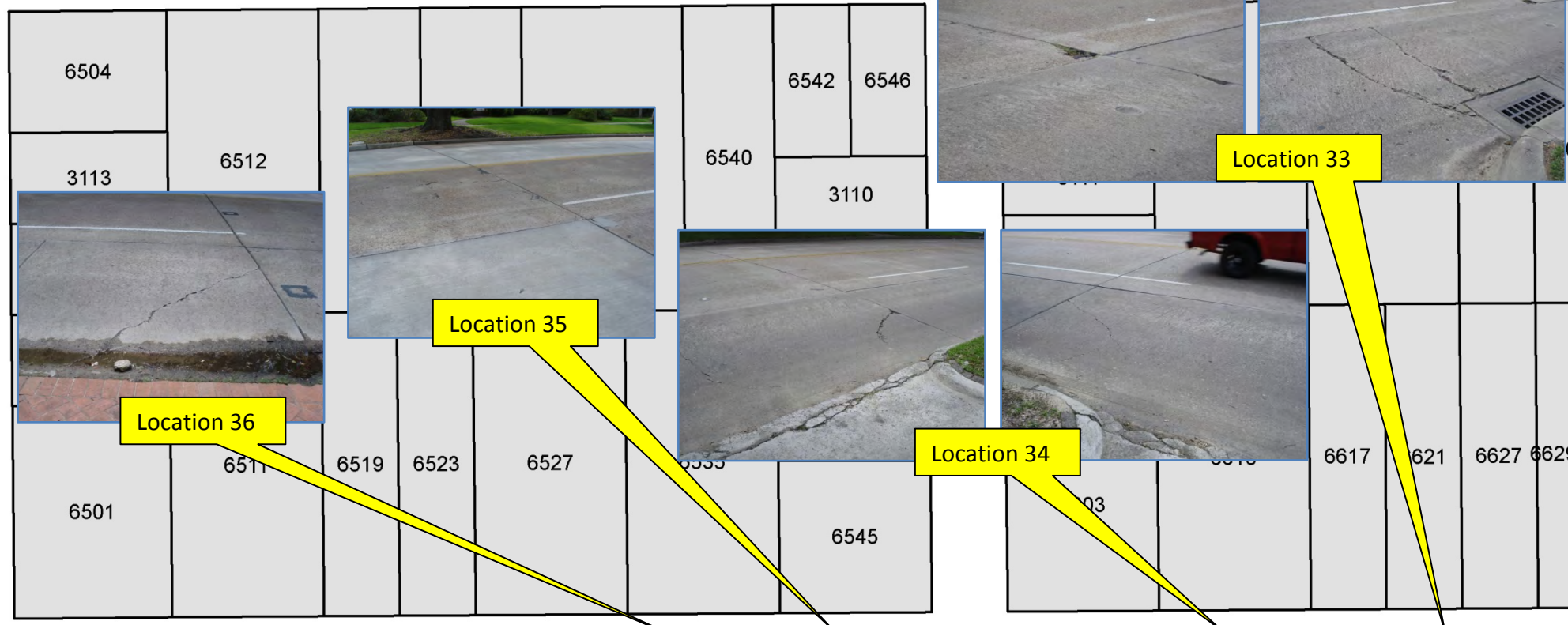
CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT
ASSESSMENT

1" = 100'

6403 6411 6413 6419



VANDERBILT



BUFFALO SPEEDWAY

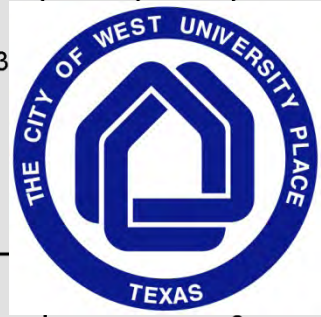
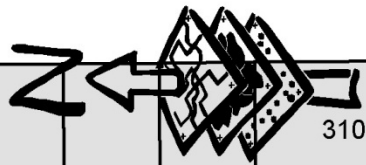


SUNKEN JOINT

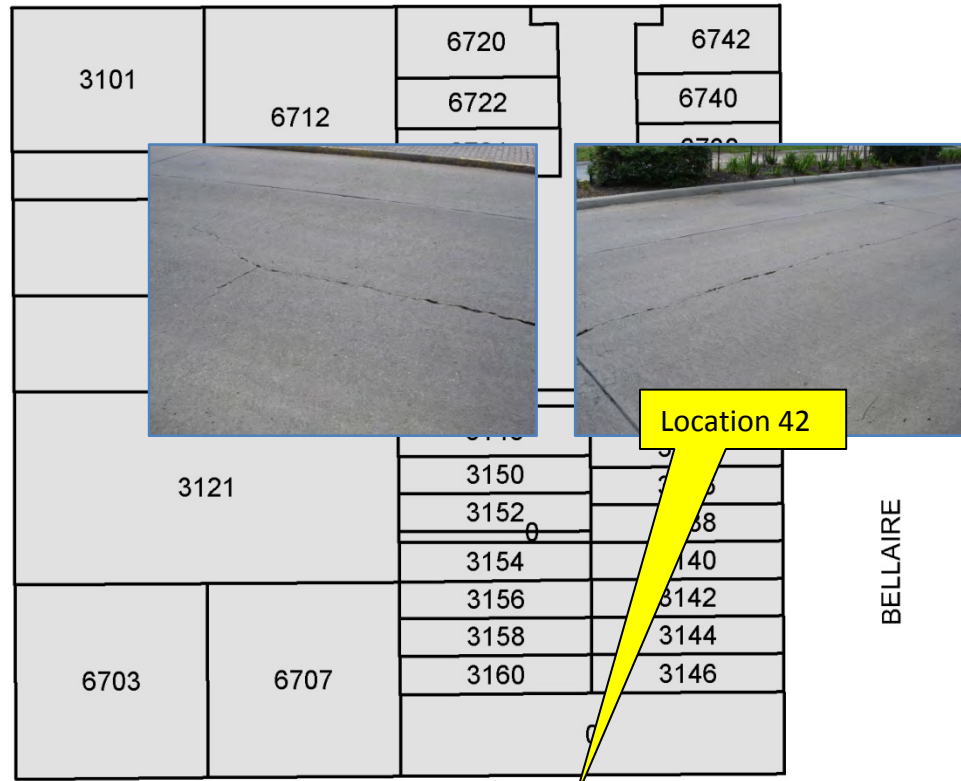
HDR | CLAUNCH & MILLER
Engineering Consultants

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT
ASSESSMENT

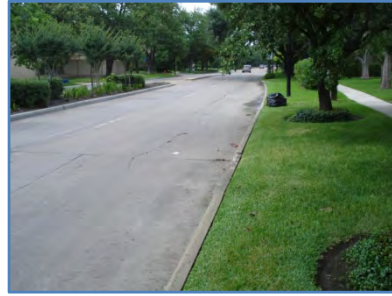
1" = 100'



VANDERBILT



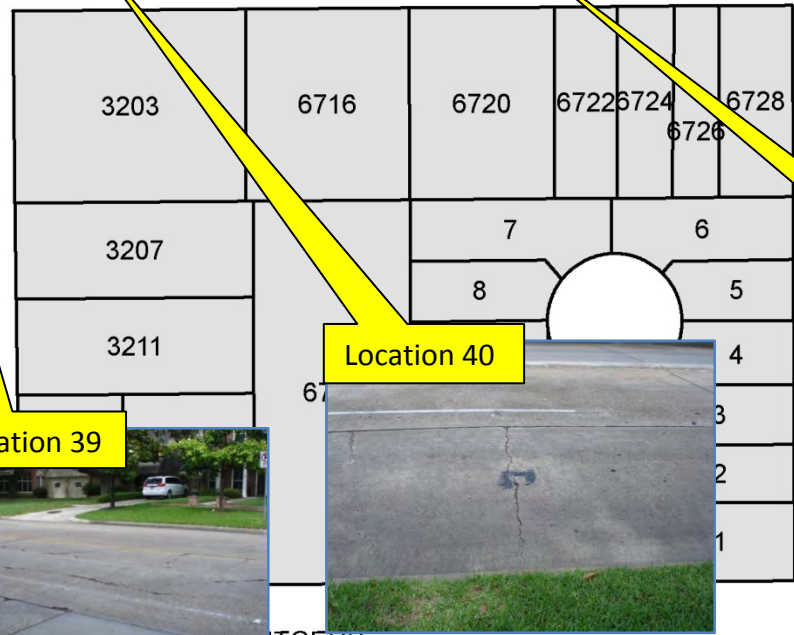
Location 42



BELLAIRE

BUFFALO SPEEDWAY

CASON



6630 6632 6636 6648



Location 38



Location 39

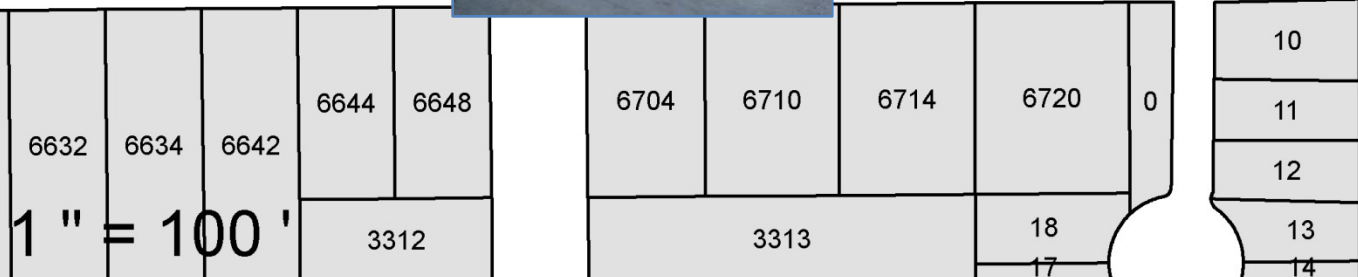


Location 40



Location 41

TGERS



1" = 100'

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY



Location 1



Location 1

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 2

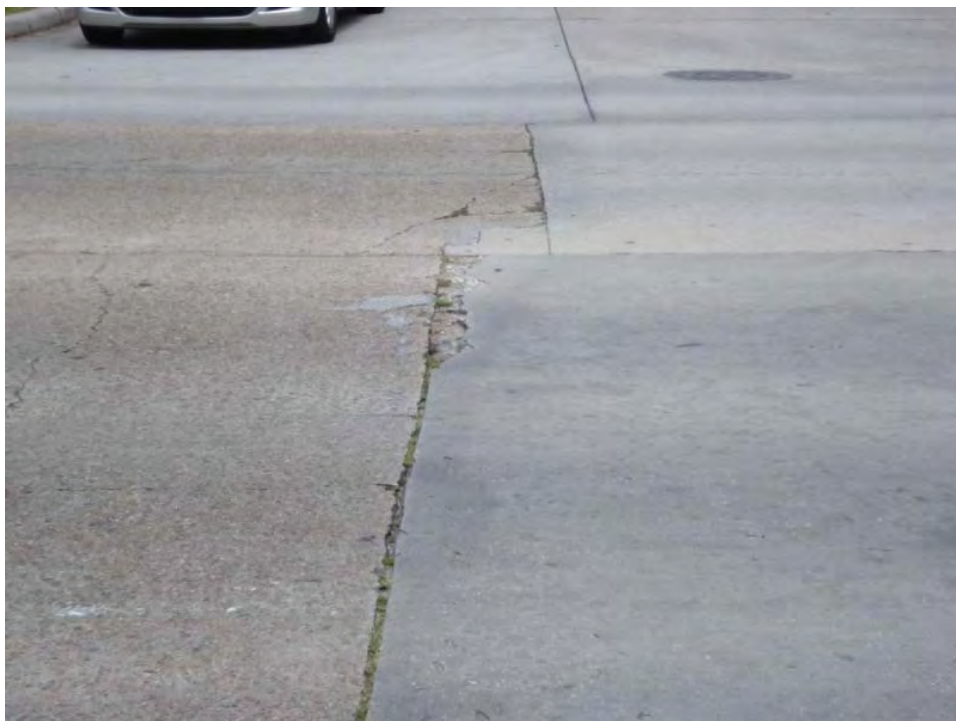


Location 3

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 3



Location 4

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 5



Location 6

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 7

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 8



Location 9

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY



Location 9



Location 9

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 9



Location 10

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 11



Location 11

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 12



Location 13

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 14



Location 14

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 15



Location 16

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 17

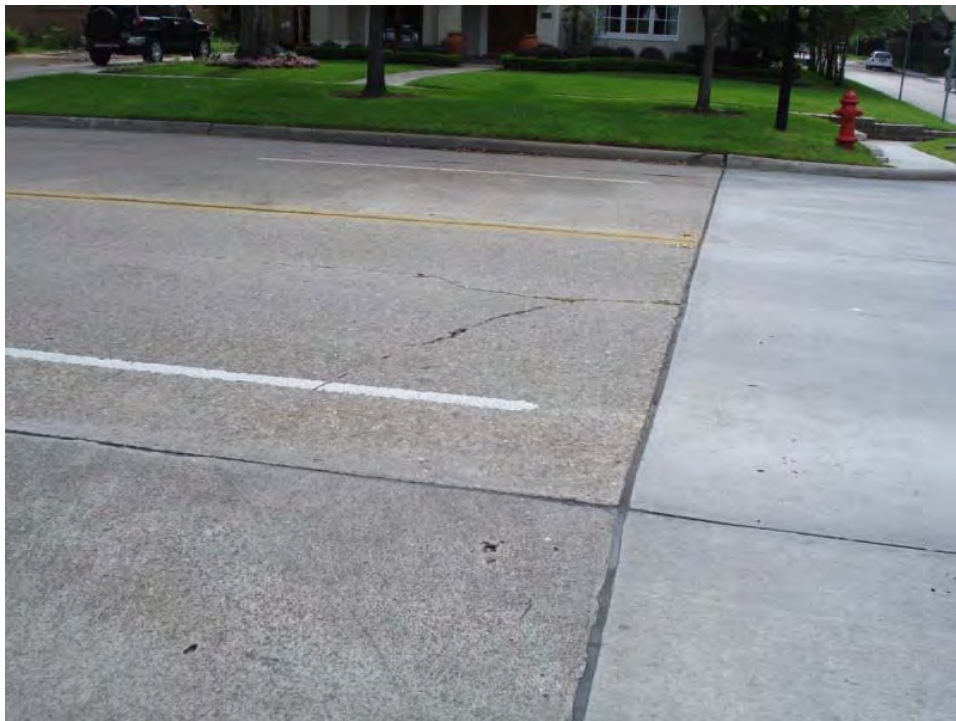


Location 18

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 19



Location 20

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY



Location 21



Location 21

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 21



Location 22

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location23



Location 24

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 25

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 25



Location 26

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY



Location 26



Location 26

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY



Location 27



Location 28

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 28



Location 29

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 29



Location 30

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 31



Location 31

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY



Location 32



Location 32

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY



Location 33

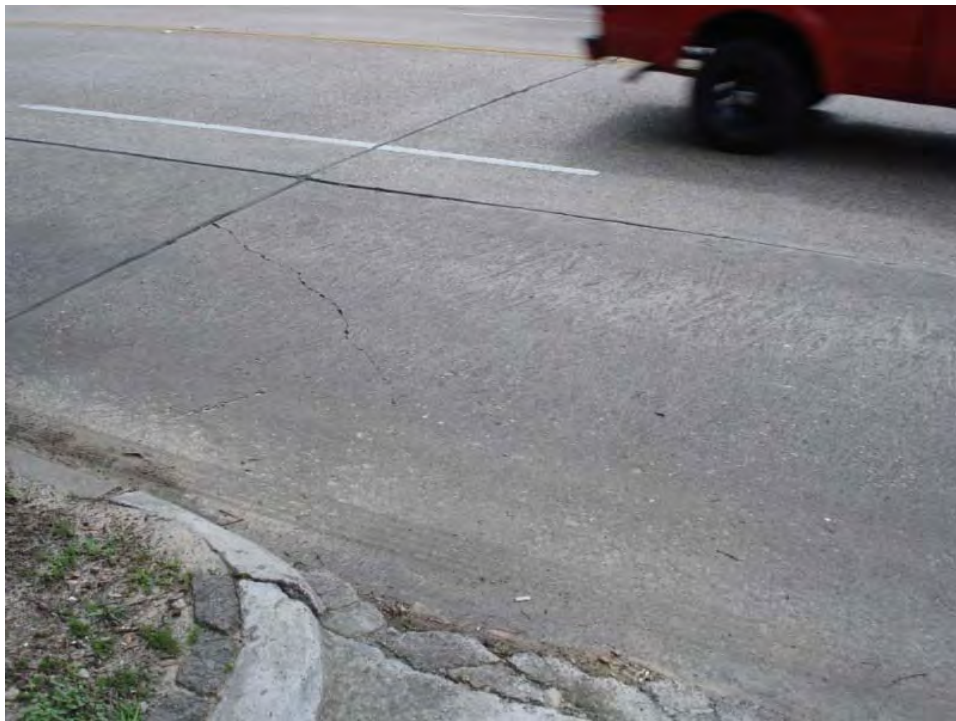


Location 33

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 34



Location 34

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 35



Location 36

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 37



Location 38

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 39



Location 40

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 40



Location 41

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 41



Location 42

**CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY**



Location 42



Location 42

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY



Sunken Joint



Sunken Joint

CITY OF WEST UNIVERSITY PLACE
BUFFALO SPEEDWAY PAVEMENT ASSESSMENT
PHOTOGRAPH GALLERY



Sunken Joint



Sunken Joint