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May 1, 2023

Shireen Ambush, MPA, PCAM, CPM
Executive Vice President
Abaris Realty, Inc.
7811 Montrose Road, Suite 110
Potomac, Maryland 20854

Attn: Brian Gruber

RE: GPTC Grosvenor Park MTA
Montgomery County Maryland
Our Project No.: 2020-0815

Dear Shireen:

For your review and comment are the following items:

- Goals and objectives summary
- Speed study locations list
- Speed study summary
- Speed study individual sheets (appendix)
- 85th Percentile Rule explanation
- Intersection Recommendations
- Speed Reduction Recommendations
- Overall signage and pavement marking recommendations
-

Goals and Objectives:

The Traffic Group, Inc. conducted multiple walk-through meetings with various Grosvenor Park MTA representatives. During each walk thru various items were pointed out along with a few other concerns:

- a. Vehicle speeds – they seem high, how can lower speeds be maintained.
- b. Existing signage and pavement markings – some ineffective, some incorrect locations, some existing signs have the incorrect color and sizes, some missing all together.
- c. Locations of existing sidewalks / crosswalks and missing sidewalks and crosswalks – review and make recommendations on how to improve.
- d. Pedestrian circulation paths – missing in some areas.
- e. Existing traffic calming measures onsite ineffective.
- f. Existing radar equipment on site do slow down vehicles.
- g. Planned repaving in the spring, good time to make changes.

Speed Study Locations:

Speed Studies were conducted at the following locations for 1 week beginning on Thursday September 14th through Thursday September 21st. Full data sheets for each location are attached at the back of this report. Hourly summaries are included for each location with totals for each of the speed brackets:

1. Grosvenor Place at Metro Station Pedestrian Access
2. Grosvenor Place, North of the Rockville Pike Access
3. Grosvenor Place, at the Pedestrian Access from Rockville Pike at Tuckerman
4. Grosvenor Place, just south of the northernmost access to Grosvenor Park I
5. Grosvenor Place, just south of the southernmost access to Grosvenor Park III

See spread sheet Exhibit 1 for summary of the speed / volume results. The Grosvenor Place road-network contains posted speed signage with 20 MPH. While the 85th percentile speeds are close to within 10 MPH of the posted Speed Limit, there are many observed / recorded vehicles driving at much higher speed.

Speed Study Results Summary:

Location #	Location Name:	Direction	85% Speed (Avg. Week)	Speed Groups MPH						
				16-20	21-25	26-30	31-35	36-40	41-45	46-50
1	Grosvenor Place at Metro ped access just south of crosswalk.	NB	27	498	643	405	132	23	3	0
		SB	28	417	529	364	131	31	3	0
2	Grosvenor Place just north of access to Rockville Pike.	NB	31	345	764	818	411	89	8	3
		SB	30	369	720	542	254	57	16	3
3	Grosvenor Place at ped access from Rockville Pike at Tuckerman Lane.	NB	36	88	193	415	395	215	51	5
		SB	30	255	575	563	206	61	16	3
4	Grosvenor Place in front of Grosvenor Park 1 Condo	NB	31	687	2369	3482	1523	270	45	5
		SB	31	718	2379	2856	1275	306	60	4
5	Grosvenor Place in front of 10301 just south of Service Drive Area	NB	29	1126	3462	3043	904	128	13	2
		SB	31	453	2235	3583	1470	262	30	6
				13869	16071	6701	1442	245	31	

Takeaways from Speed Study Results:

1. The site has posted speed signs indicating that 20 is the posted speed.
2. **85th Percentile Speed (mph)** – The 85th percentile speed is the speed at or below which 85 percent of the drivers travel on a road segment. Motorists traveling above the 85th percentile speed are considered to be exceeding the safe and reasonable speed for road and traffic conditions.
3. There are vehicles traveling faster than the posted speed limit and much higher than the 85th percentile speed.
4. Full summary sheets for each location can be found in the back of this document.

The 85th Percentile Rule is Killing Us

In August 2017, Streets Blog posted a report indicating that traffic deaths in the U.S. are mounting, and according to a recent draft report by the National Transportation Safety Board (NTSB), speed is THE overlooked factor.

The NTSB reported that speeding accounts for as many deaths as drunk driving each year. One of the agency's key recommendations was to change the way streets are designed by reforming the "85th Percentile Rule" a laissez faire approach that seeks to accommodate motorists' behavior instead of engineering streets for safety.

The NTSB report is vindicating advocates' critique of the 85th Percentile Rule.

The 85th percentile idea based on the 1964 "Solomon Curve" says speed limits should be set at what 85% of drivers think is healthy. It was created back when the highway system was still young, cars didn't approach speeds as quickly as they do today, and we do not have the sort of statistics and research on traffic dangers as we do today.

Among the NTSB's specific recommendations are *"revise traditional speed setting standards to balance 85 percentile approaches with safe systems approach that better incorporates crash history, safety and pedestrians, and bicyclists."*

In general, there is not strong evidence that the 85th percentile speed within a given traffic flow equates to the speed with the lowest crash involvement rate, according to the NTSB. Alternative approaches and expert systems for setting speed limits are available which incorporate factors such as crash history and the presence of vulnerable road users such as pedestrians and bicyclists.

- **Speed Reduction Recommendations**

Recommendations related to vehicle speeds:

1. New regular posted speed signs may help to reduce speeds. Existing signage does not meet the proper size, color, message, and reflectivity requirements.



NOTE

Replace existing deteriorating speed bumps with new speed humps.

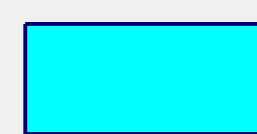
LEGEND



Existing Speed Hump Location

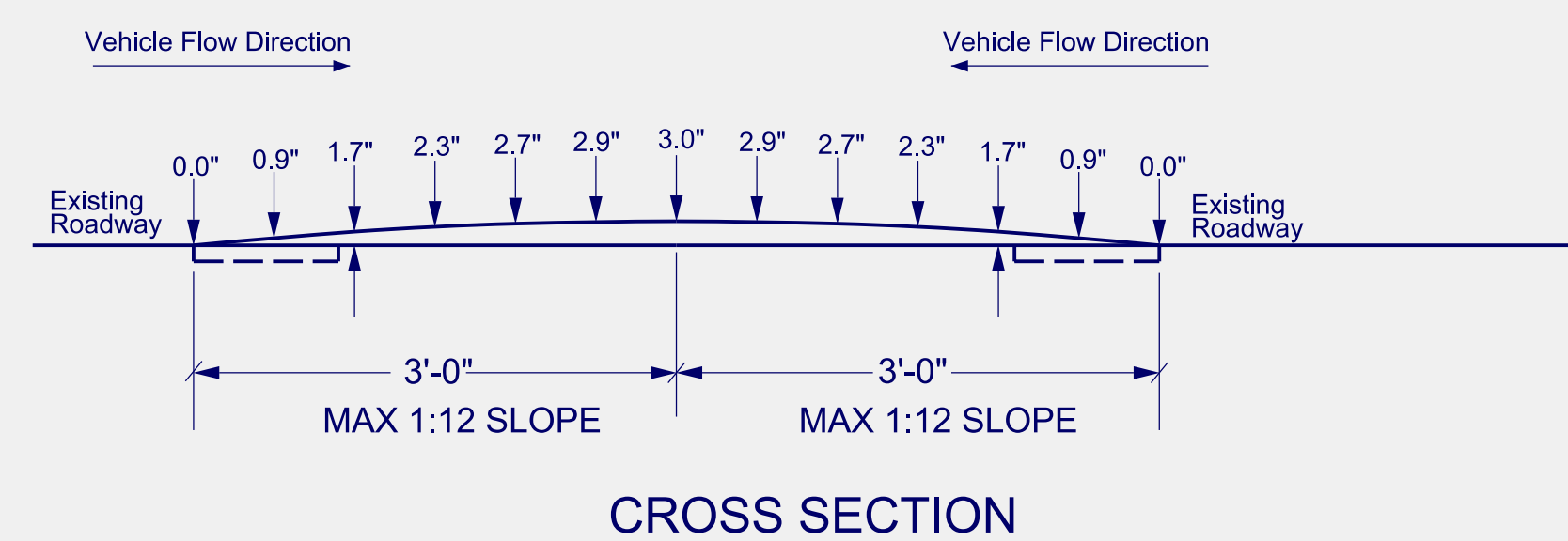


Existing radar speed display sign

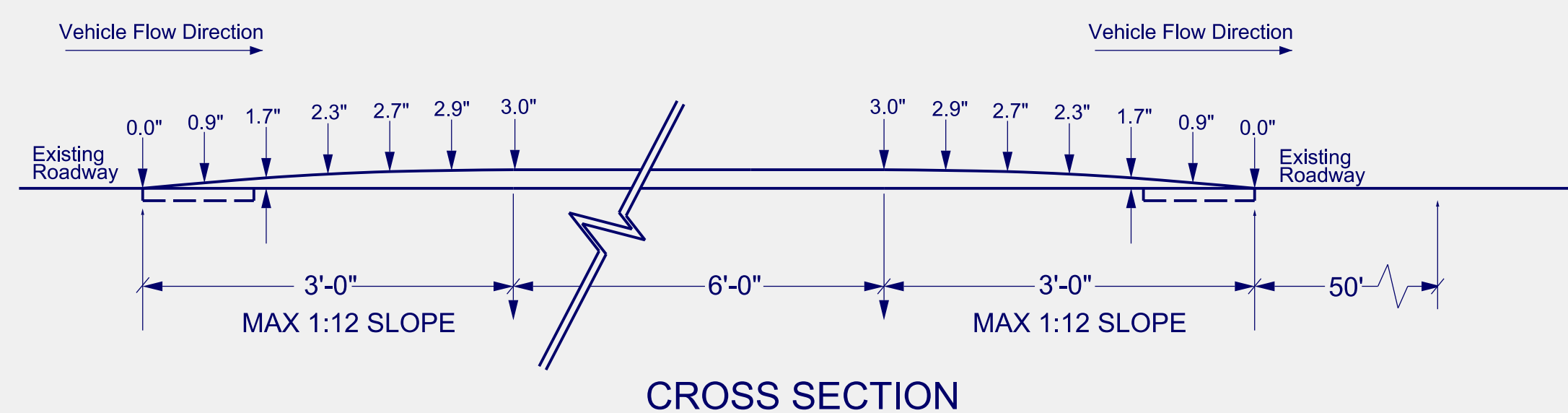


Proposed Raised Crosswalk Location

Typical Speed Hump Detail



Typical Raised Crosswalk Detail



2. Grosvenor Place roadway contains approximately 1 dozen existing speed bumps / humps that have flattened out over time. It is recommended that each of these calming devices be replaced with new speed humps. See Map that shows the locations of the speed humps along with the existing radar speed display signage. The existing radar speed signage that provides vehicles with their speeds should remain to provide the additional speed reduction.
3. Install raised crosswalks at crossings across Grosvenor Place roadway where appropriate.
4. New center double yellow lines within Grosvenor Place roadway along with new edge lines will help to lower speeds. Today without pavement markings the roadway appears to be wider to drivers. Narrow path will result in slightly lower speeds.

- **Time Lapse Image review**

Time Lapse Cameras were used to document activities throughout the same week as the traffic counting period at these locations:

- A. Grosvenor Place Service Drive Intersection North of Grosvenor Park II Condominium
- B. Grosvenor Place at the Metro Access
- C. Grosvenor Place at the Exit from Grosvenor Park III
- D. Grosvenor Park III Service Drive towards the Pool
- E. Grosvenor Park III Service Drive towards the access from Grosvenor Place
- F. Grosvenor Place at the

Observations during a review of the time lapse images aided in the recommendations at the following intersection:

Recommendations for signage, pavement markings and pedestrian amenities at key locations:

Location 1: Grosvenor Place at Tuckerman Lane Access (175 Ft west of MD 355) – See Intersection Exhibit

This T-Intersection operates as a service drive type intersection directly next to the county roadway. Under the existing intersection condition, the approach to Tuckerman is the only approach that has a stop condition. It is recommended that the two approaches along Grosvenor Place be modified to stop. This change will help facilitate inbound traffic flow by stopping conflicting movements. Stopping the Grosvenor Place movements will also help with the new white crosswalk that will connect the inner sidewalk pedestrian flow to/from the county sidewalk along Tuckerman Lane. Because of the curvature of Grosvenor Place, advance “Stop Ahead” signs are recommended along with selective tree / brush trimming for the eastbound approach. Sight Distance as vehicles approach from the west is limited by the existing tree.

Location 2: Grosvenor Place at the existing pedestrian Metro Access / access to Grosvenor Park II Condominium - See Intersection Exhibit

The existing access to the metro is located along the eastern side of Grosvenor Place roadway. Pedestrians were observed in all directions to/from the metro access. The existing pedestrian crossing is marked by a yellow crosswalk without any pedestrian warning signs.

Recommendations for a new white crosswalk and pedestrian signage should be installed. The existing marked yellow crosswalk within the access paving to Grosvenor Park II should be modified to be outside of the paved area. The vehicle access is narrowed by the marked pedestrian path. Recommend installing a new sidewalk area to allow pedestrian flow to/from the Metro without walking within the street area. Install 90-degree painted crosswalk with new pedestrian signage. Install new ADA Compliant pedestrian ramps.

Ground photo of metro access pedestrian crossing



Location 3: Grosvenor Place at the access point to Grosvenor Lane / King Charles Way – See Intersection Exhibit

This intersection operates as a service drive type intersection directly next to a county intersection. Under existing conditions, the pedestrian crossing maneuvers occur approximately 25 ft before the stop line on the southbound approach. The existing crossing is marked using yellow pavement marking lines. The pedestrian flow from the onsite to/from the county sidewalk area occurs via a sidewalk path that requires pedestrians to climb steps. Pedestrian flow on the east side of the intersection doesn't currently have a marked crosswalk. Pedestrian flow to the county sidewalk area also occurs down a sidewalk path that contains multiple steps. Recommendations include moving the crosswalk closer to the intersection in front of the stop lines. Safer for pedestrians to cross in front of stopped vehicles versus vehicles that may be decelerating approaching the stop condition.

It is recommended that white crosswalks be installed within the intersection to allow pedestrians to cross behind a new stop line as a normal intersection design. Maintaining a normal pedestrian

flow closer to the intersection will help inbound traffic flow into the community to have better visibility to crossing pedestrians. Sidewalk connections are recommended on both sides of the access from the county sidewalk to facilitate pedestrian flow without the need to traverse steps. ADA Compliant Pedestrian ramps should be installed on all four corners of the community intersection.

Time Lapse Image of the Intersection



Location 4: Grosvenor Place at Grosvenor House (10101 Southern-most access) – See Intersection Exhibit

This Intersection access design requires pedestrian flow to walk into the Grosvenor Place roadway to bypass the existing landscaped splitter median. Some type of pedestrian path is recommended through the median area to allow pedestrians to continue along the eastern sidewalk path without needing to walk into the roadway. Recommend trimming back existing landscaping and installing sidewalk or a walking path established by installing walking path stones.

Ground Photo of the access point



Location 5: Grosvenor Place at Englishman Drive Intersection – See Intersection Exhibit

Install new raised crosswalk closer to the intersection with proper signage. This T-Intersection has a heavy amount of pedestrian crossing from the Town Home Community for both students and other pedestrians. The existing yellow faded crosswalk is not in the correct location. Observations during the earlier townhome community study showed pedestrians making a more direct path crossing Grosvenor Place roadway closer to the Englishman Drive Intersection. New ADA compliant ramps should be installed on both sides of Grosvenor Place to provide proper accessibility from street level to existing sidewalk level. A new stop line is also recommended.

Location 6: Grosvenor Place at Grosvenor Park III Loading Lane (Southern-most access) – See Intersection Exhibit

Two (2) Time Lapse Cameras monitored pedestrians and vehicle traffic along this roadway segment between Grosvenor Place and the dead-end area (Swimming Pool). A review of the time lapse images showed many pedestrians walking along the roadway to access to/from the sidewalk area. Existing conditions (no sidewalk area) force pedestrians to walk within the roadway to access all directions. Ideally a new sidewalk should be installed along the southern side of the service drive allowing pedestrian flow to/from all directions. New sidewalk would help keep pedestrians out of the roadway. A new sidewalk would likely require a retaining wall due to the existing grade changes. At a minimum a 3-ft painted area should be installed to establish a walking area zone as shown on the plan. Crosswalks across the access and midway should be installed.

A large semi-truck was observed backing down the service drive after driving southbound, stopping, and then backing into the access without any on the ground guidance. Because there's not a large enough turn around area at the bottom of this service drive semi-trucks need to either back in or back out. Pedestrian crossings across the access at Grosvenor Place and along this service drive when a large semi-truck is backing in or out places pedestrians in harm's way. Every effort to provide a marked pedestrian path / and or provide a new sidewalk should be accommodated.

The Time Lapse Image below contains 3 truck positions overlaid to show backing into the final parking spot. This Semi Truck was observed on September 15th backing in at 9:19 AM and sitting in the last position unloading until 9:55 AM. During this time all other vehicles including pedestrians would need to use the remaining paved area.

On September 20th a similar truck backed into the service drive at 10:04 AM and exiting at 10:25 making multiple back and forth maneuvers to back out into Grosvenor Place.

Time Lapse 3 Photos merged into 1 showing truck backing into service drive.



Time Lapse, 2 photos merged into 1 showing inbound sitting position on the left along the southern most curb line. Then pulling down service drive, then backing out.



Time Lapse, multiple photos merged into 1 to show only a few of the observed many positions of pedestrians along the service drive.



Location 7: Grosvenor Place at Grove Ridge Way Intersection – See Intersection Exhibit

Install a new raised crosswalk closer to the intersection with proper signage. This new raised crosswalk will connect to the new ADA Compliant ramp on the southwest corner of the intersection that was included in list of recommendations for the townhome community.

This T-Intersection has a heavy amount of pedestrian crossing from the Town Home Community for both students and other pedestrians. Observations from the Townhome community study showed the heavy pedestrian activity. It was recommended as part of the Townhome Community review that a new sidewalk along the southern side of Grove Ridge Way be installed to help provide a safe path for pedestrians in and out of the community. The existing yellow faded crosswalk is not in the correct location. It is recommended that this intersection be upgraded to have a new white crosswalk across Grosvenor Place for pedestrian traffic closer to the corner of Grove Ridge Way. New ADA compliant ramps should be installed on both sides of Grosvenor Place to provide proper accessibility from street level to existing sidewalk levels. A new white stop line is also recommended.

Location 8: Grosvenor Place at Grosvenor Park III Exit Only – See Intersection Exhibit

This intersection contains an existing intersection design that is more commonly used as a right in / right out type of design. The access contains a triangle Island that typically has two-way traffic (exit out and inbound traffic flow). It is important for the signage and pavement marking

to relay the message that this is an exit only. Do Not Enter signage on both exit lanes are needed along with multiple stop signs. The continuation of a white stop line across both exit lanes is needed with the addition of a painted crosswalks between the existing ramps. Directional arrow within the center of each exit lanes is recommended that will help to establish / maintain the one-way exit feel. It is also recommended that No Left and No Right Turn signage be installed on both directional approaches to this exit only intersection. Observations from the time lapse video did not show vehicles entering the wrong way. Heavy pedestrian flow through the center island in both directions was observed with an occasional crossing across Grosvenor Place.

Additional recommendation: Install a new raised crosswalk across Grosvenor Place just south of the intersection to provide a safe crossing for pedestrian with proper signage.

Time Lapse Photo showing pedestrian flow through the center triangle Island.



Location 9: Grosvenor Place at Grosvenor Park I Condominiums – See Intersection Exhibit

Install a new raised crosswalk with proper signage. This new raised crosswalk will provide pedestrian a safer crossing between the Townes at Grosvenor Place along the westside to the sidewalk connection on the eastside in front of Grosvenor Park I between the entry and exit access points. Additionally, this will aide in reducing speeds along this straight away road link.

Overall signage and pavement marking recommendations.

The existing signage contains signs that are made of wood with the messages cut into the sign face (router carving message). Recommendations for signage can be found on the signage exhibit. Existing signage is shown with the corresponding task. Example: Replace existing Stop sign with new stop sign.

Signs are required to be a certain size, have proper colors and be on reflective sheeting. Recommendations or replacing signs are provide below each.

Pavement Markings are outlined on each of the Intersection exhibits. The areas between those intersection can be marked with a standard double yellow line.

Please let me know if you have any questions or comments. Also, if you are ok with this DRAFT Submittal, please forward onto the appropriate HOA members for their review and comments.

Sincerely,

A handwritten signature in black ink that reads "Paul R. Dorr". The signature is written in a cursive, flowing style.

Paul R. Dorr
Director of Engineering Design

PRD:amr

1. Preliminary Cost Estimate

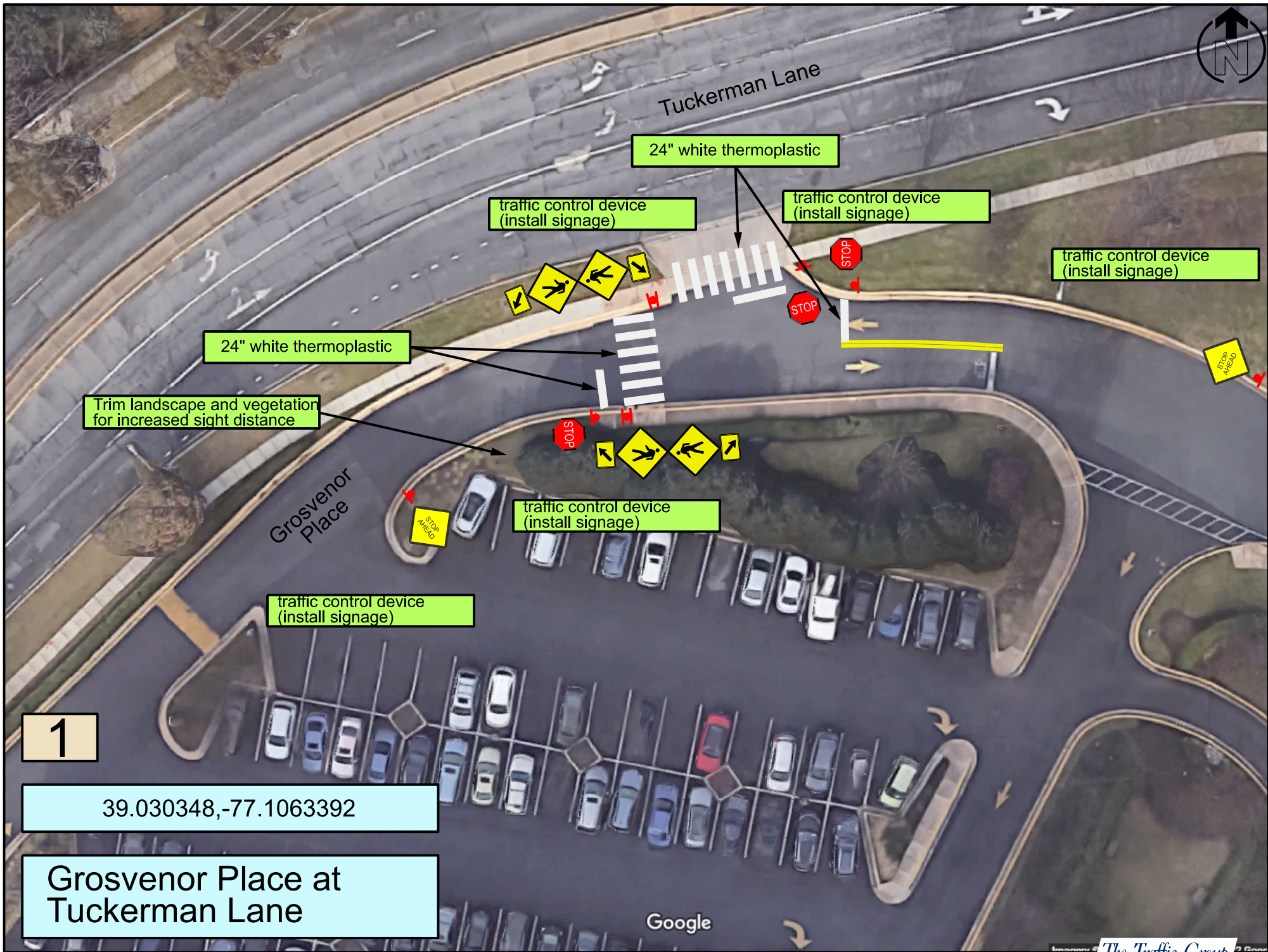
Install painted crosswalks between existing pedestrian ramps. Install pedestrian signage and new stop signs. Install 2 new stop lines and 80 LF of double yellow center line. Trim tree on EB approach.

Quantity	Unit	Description	Unit Price	Total Price
4	EA	New 30" x 30" W11-2 Ped sign ground mounted	\$250.00	\$1,000.00
2	EA	New 12" x 24" W16-7pL	\$50.00	\$100.00
2	EA	New 12" x 24" W16-7pR	\$50.00	\$100.00
2	EA	New 30" x 30" R1-1 Stop sign ground mounted	\$250.00	\$500.00
1	EA	New 36" x 36" R1-1 Stop sign ground mounted	\$280.00	\$280.00
2	EA	New "Stop Ahead" sign ground mounted	\$250.00	\$500.00
80	LF	5 Inch Yellow Line for center line	\$6.00	\$480.00
100	LF	18 Inch White Line for stop line	\$15.00	\$1,500.00
130	LF	24 Inch White Line for crosswalk	\$20.00	\$2,600.00
0	LF	Sawcut	\$12.00	\$0.00
0	CY	Earthwork	\$50.00	\$0.00
0	EA	Raised Crosswalk - Asphalt	\$3,500.00	\$0.00
0	EA	ADA Compliant pedestrian ramp with detectable surface	\$1,800.00	\$0.00
0	LF	5 Ft Concrete Sidewalk	\$60.00	\$0.00
0	EA	Repair speed bump missing southern portion	\$1,000.00	\$0.00
0	LF	Retaining Wall 6 Ft High	\$160.00	\$0.00
0	SY	Asphalt Paving	\$40.00	\$0.00
1	LS	Select Tree Trimming	\$200.00	\$200.00

Subtotal:	\$7,260.00
Utilities (10%)	\$726.00
M.O.T. (10%)	\$726.00
Contingency (20%)	\$1,452.00
Total:	\$10,164.00

Opinion of Probable Construction Costs

This form is The Traffic Group's OPINION OF PROBABLE COSTS. The Traffic Group, Inc. is not a construction cost estimator or construction contractor, nor should The Traffic Group's rendering an opinion of probable construction costs be considered equivalent. This is based solely upon The Traffic Group's experience with construction and requires The Traffic Group, Inc. to make a number of assumptions of factors over which The Traffic Group, Inc. has no control. The Traffic Group, Inc. cannot guarantee the accuracy of this opinion, and in recognition of this, and by using this opinion, the Client waives any claim against The Traffic Group, Inc. relative to the accuracy of The Traffic Group's opinion of probable cost.



Tuckerman Lane

Grosvenor Place

24" white thermoplastic

traffic control device (install signage)

traffic control device (install signage)

traffic control device (install signage)

24" white thermoplastic

Trim landscape and vegetation for increased sight distance

traffic control device (install signage)

traffic control device (install signage)

1

39.030348,-77.1063392

Grosvenor Place at Tuckerman Lane

Google

2. Preliminary Cost Estimate

Install new raised crosswalk, sidewalk area with 1 new ADA compliant pedestrian ramp. Install 2 new crosswalks along with new pedestrian signage.

Quantity	Unit	Description	Unit Price	Total Price
4	EA	New 30" x 30" W11-2 Ped sign ground mounted	\$250.00	\$1,000.00
2	EA	New 12" x 24" W16-7pL	\$50.00	\$100.00
2	EA	New 12" x 24" W16-7pR	\$50.00	\$100.00
1	EA	New 30" x 30" R1-1 Stop sign ground mounted	\$250.00	\$250.00
2	EA	New 30" x 30" "raised pedestrian crossing" sign	\$250.00	\$500.00
2	EA	New 18" x 18" W13-1-15 "15 MPH" sign	\$50.00	\$100.00
0	EA	New "Stop Ahead" sign ground mounted	\$250.00	\$0.00
0	LF	5 Inch Yellow Line for center line	\$6.00	\$0.00
20	LF	12 Inch white Line for raised crosswalk arrows	\$10.00	\$200.00
12	LF	18 Inch White Line for stop line	\$15.00	\$180.00
110	LF	24 Inch White Line for crosswalk	\$20.00	\$2,200.00
110	LF	Sawcut	\$12.00	\$1,320.00
4	CY	Earthwork	\$50.00	\$200.00
1	EA	Raised Crosswalk - Asphalt	\$3,500.00	\$3,500.00
1	EA	ADA Compliant pedestrian ramp with detectable surface	\$1,800.00	\$1,800.00
60	LF	5 Ft Concrete Sidewalk	\$60.00	\$3,600.00
0	EA	Repair speed bump missing southern portion	\$1,000.00	\$0.00
0	LF	Retaining Wall 6 Ft High	\$160.00	\$0.00
0	SY	Asphalt Paving	\$40.00	\$0.00
0	LS	Select Tree Trimming	\$200.00	\$0.00

Subtotal:	\$15,050.00
Utilities (10%)	\$1,505.00
M.O.T. (10%)	\$1,505.00
Contingency (20%)	\$3,010.00
Total:	\$21,070.00

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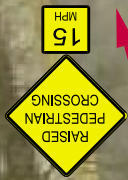


Rockville Pike
(MD 355)
(southbound side)

Grosvenor Place

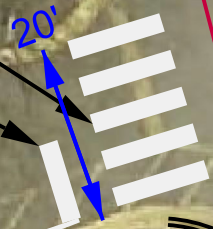
150'

150'



Install Raised Crosswalk

24" white thermoplastic



20'

Install 5' ADA ramps compliant sidewalk

traffic control device (install signage)

traffic control device (install signage)

Grosvenor-Strathmore Metro Center Access

2

39.02879,-77.1067727

Grosvenor Place at Metro Access

3. Preliminary Cost Estimate

Relocate crosswalks closer to the intersection. Install new stop lines and signage. Install new sidewalk areas and new ADA compliant ped ramps.

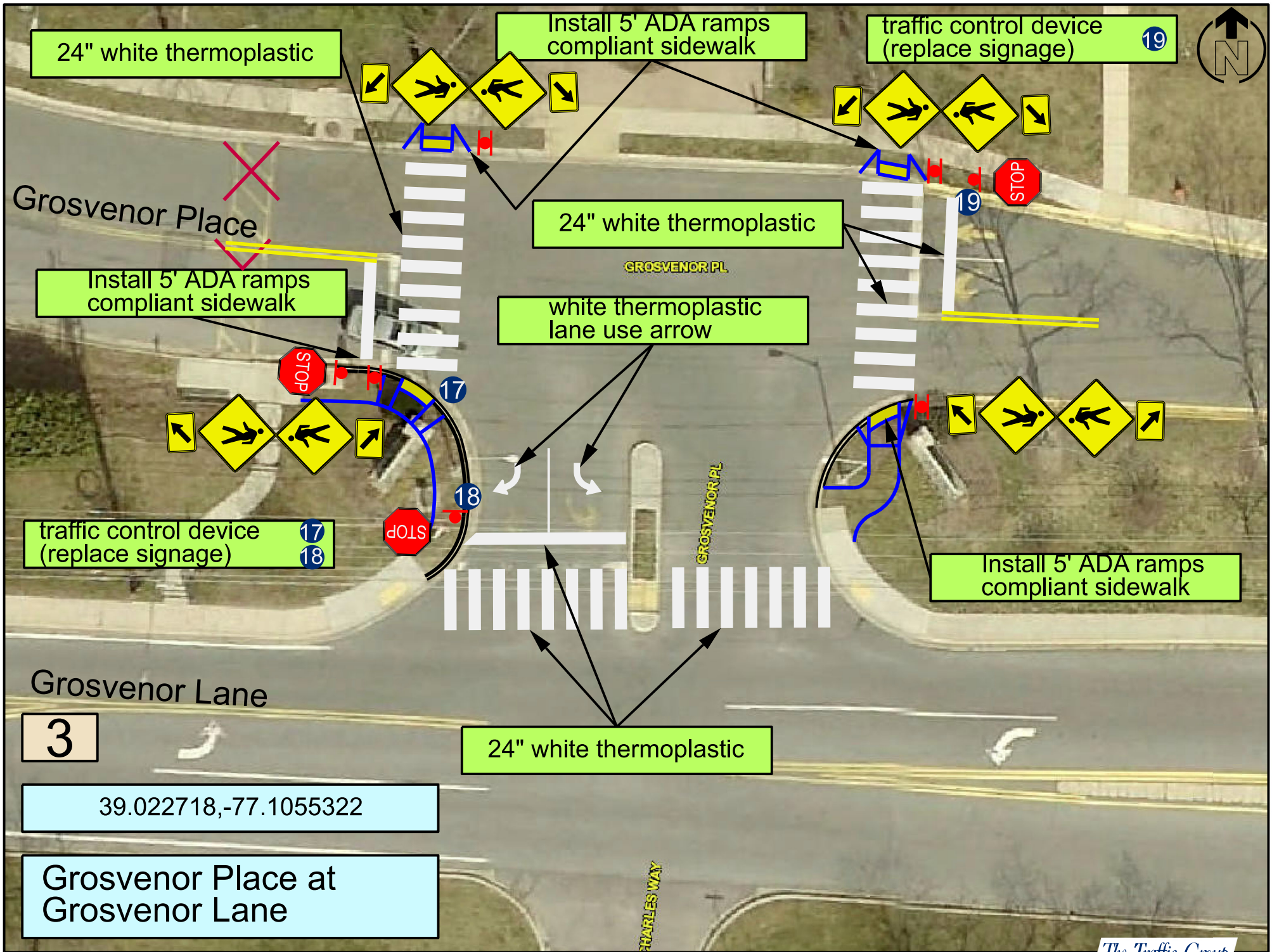
Quantity	Unit	Description	Unit Price	Total Price
0	EA	New 30" x 30" W11-2 Ped sign ground mounted	\$250.00	\$0.00
0	EA	New 12" x 24" W16-7pL	\$50.00	\$0.00
0	EA	New 12" x 24" W16-7pR	\$50.00	\$0.00
2	EA	New 30" x 30" R1-1 Stop sign ground mounted	\$250.00	\$500.00
1	EA	New 36" x 36" R1-1 Stop sign ground mounted	\$300.00	\$300.00
0	EA	New "Stop Ahead" sign ground mounted	\$250.00	\$0.00
100	LF	5 Inch Yellow Line for center line	\$6.00	\$600.00
0	LF	18 Inch White Line for stop line	\$15.00	\$0.00
60	LF	24 Inch White Line for crosswalk	\$20.00	\$1,200.00
20	LF	Sawcut	\$12.00	\$240.00
30	CY	Earthwork	\$50.00	\$1,500.00
2	EA	White preformed arrow pavement marking	\$200.00	\$400.00
4	EA	ADA Compliant pedestrian ramp with detectable surface	\$1,800.00	\$7,200.00
65	LF	5 Ft Concrete Sidewalk	\$60.00	\$3,900.00
0	EA	Repair speed bump missing southern portion	\$1,000.00	\$0.00
0	LF	Retaining Wall 6 Ft High	\$160.00	\$0.00
0	SY	Asphalt Paving	\$40.00	\$0.00
0	LS	Select Tree Trimming	\$200.00	\$0.00

Shift of existing monumental signage not included.

Subtotal:	\$15,840.00
Utilities (10%)	\$1,584.00
M.O.T. (10%)	\$1,584.00
Contingency (20%)	\$3,168.00
Total:	\$22,176.00

Opinion of Probable Construction Costs

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24" white thermoplastic

Install 5' ADA ramps compliant sidewalk

traffic control device (replace signage) 19

Grosvenor Place

24" white thermoplastic

Install 5' ADA ramps compliant sidewalk

white thermoplastic lane use arrow

traffic control device (replace signage) 17 18

Install 5' ADA ramps compliant sidewalk

Grosvenor Lane

3

24" white thermoplastic

39.022718,-77.1055322

Grosvenor Place at Grosvenor Lane

4. Preliminary Cost Estimate

Provide new sidewalk area within existing median area.

Quantity	Unit	Description	Unit Price	Total Price
0	EA	New 30" x 30" W11-2 Ped sign ground mounted	\$250.00	\$0.00
0	EA	New 12" x 24" W16-7pL	\$50.00	\$0.00
0	EA	New 12" x 24" W16-7pR	\$50.00	\$0.00
2	EA	New 30" x 30" R1-1 Stop sign ground mounted	\$250.00	\$500.00
0	EA	New 36" x 36" R1-1 Stop sign ground mounted	\$300.00	\$0.00
0	EA	New "Stop Ahead" sign ground mounted	\$250.00	\$0.00
0	LF	5 Inch Yellow Line for center line	\$6.00	\$0.00
24	LF	18 Inch White Line for stop line	\$15.00	\$360.00
0	LF	24 Inch White Line for crosswalk	\$20.00	\$0.00
6	LF	Sawcut	\$12.00	\$72.00
30	CY	Earthwork	\$50.00	\$1,500.00
0	EA	White preformed arrow pavement marking	\$200.00	\$0.00
2	EA	ADA Compliant pedestrian ramp with detectable surface	\$1,800.00	\$3,600.00
20	LF	5 Ft Concrete Sidewalk	\$60.00	\$1,200.00
0	EA	Repair speed bump missing southern portion	\$1,000.00	\$0.00
0	LF	Retaining Wall 6 Ft High	\$160.00	\$0.00
0	SY	Asphalt Paving	\$40.00	\$0.00
0	LS	Select Tree Trimming	\$200.00	\$0.00

tree / bush removal not included.

Subtotal:	\$7,232.00
Utilities (10%)	\$723.20
M.O.T. (10%)	\$723.20
Contingency (20%)	\$1,446.40
Total:	\$10,124.80

Opinion of Probable Construction Costs

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Grosvenor Place

Modify median to allow pedestrian flow

4

39.023143,-77.1062732

South Entrance / Exit to Grosvenor House

5. Preliminary Cost Estimate

Install new raised crossing with pavement markings and signage.

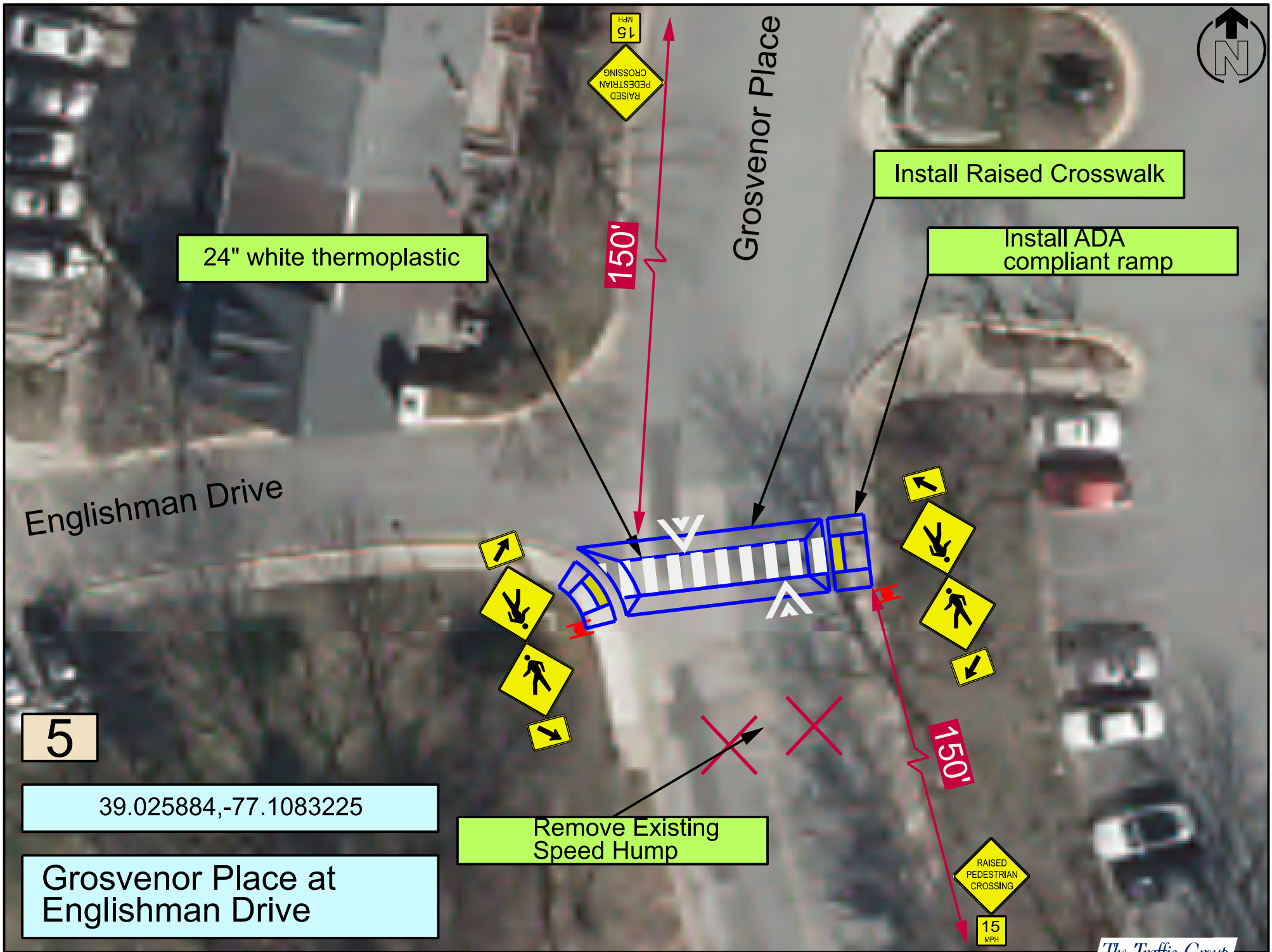
Quantity	Unit	Description	Unit Price	Total Price
4	EA	New 30" x 30" W11-2 Ped sign ground mounted	\$250.00	\$1,000.00
2	EA	New 12" x 24" W16-7pL	\$50.00	\$100.00
2	EA	New 12" x 24" W16-7pR	\$50.00	\$100.00
2	EA	New 30" x 30" "raised pedestrian crossing" sign	\$250.00	\$500.00
2	EA	New 18" x 18" W13-1-15 "15 MPH" sign	\$50.00	\$100.00
0	EA	New 30" x 30" R1-1 Stop sign ground mounted	\$250.00	\$0.00
0	EA	New 36" x 36" R1-1 Stop sign ground mounted	\$300.00	\$0.00
0	EA	New "Stop Ahead" sign ground mounted	\$250.00	\$0.00
0	LF	5 Inch Yellow Line for center line	\$6.00	\$0.00
20	LF	12 Inch white Line for raised crosswalk arrows	\$10.00	\$200.00
14	LF	18 Inch White Line for stop line	\$15.00	\$210.00
55	LF	24 Inch White Line for crosswalk	\$20.00	\$1,100.00
110	LF	Sawcut	\$12.00	\$1,320.00
8	CY	Earthwork	\$50.00	\$400.00
0	EA	White preformed arrow pavement marking	\$200.00	\$0.00
2	EA	ADA Compliant pedestrian ramp with detectable surface	\$1,800.00	\$3,600.00
20	LF	5 Ft Concrete Sidewalk	\$60.00	\$1,200.00
0	EA	Repair speed bump missing southern portion	\$1,000.00	\$0.00
0	LF	Retaining Wall 6 Ft High	\$160.00	\$0.00
0	SY	Asphalt Paving	\$40.00	\$0.00
0	LS	Select Tree Trimming	\$200.00	\$0.00

tree / bush removal not included.

Subtotal:	\$9,830.00
Utilities (10%)	\$983.00
M.O.T. (10%)	\$983.00
Contingency (20%)	\$1,966.00
Total:	\$13,762.00

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Install Raised Crosswalk

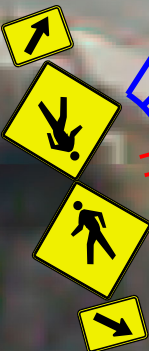
Install ADA compliant ramp

24" white thermoplastic

150'

Grosvenor Place

Englishman Drive



5

39.025884,-77.1083225

Grosvenor Place at Englishman Drive

Remove Existing Speed Hump

150'



6. Preliminary Cost Estimate

Install crosswalk, stop line and new stop sign.

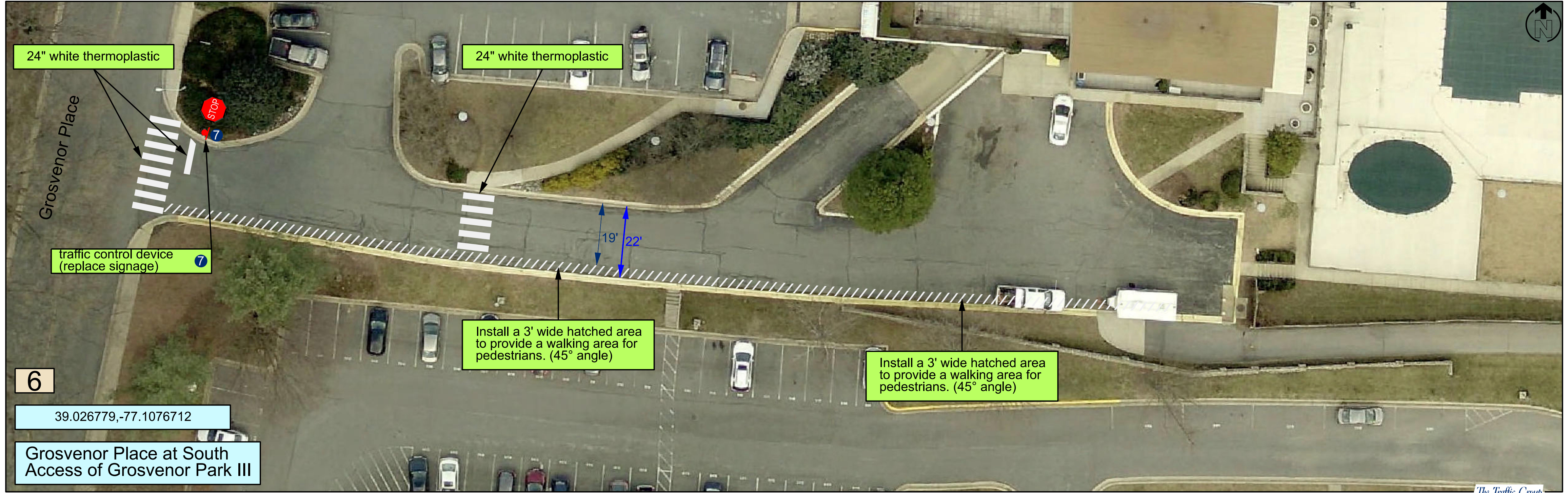
Quantity	Unit	Description	Unit Price	Total Price
0	EA	New 30" x 30" W11-2 Ped sign ground mounted	\$250.00	\$0.00
0	EA	New 12" x 24" W16-7pL	\$50.00	\$0.00
0	EA	New 12" x 24" W16-7pR	\$50.00	\$0.00
0	EA	New 30" x 30" R1-1 Stop sign ground mounted	\$250.00	\$0.00
0	EA	New 36" x 36" R1-1 Stop sign ground mounted	\$300.00	\$0.00
0	EA	New "Stop Ahead" sign ground mounted	\$250.00	\$0.00
0	LF	5 Inch Yellow Line for center line	\$6.00	\$0.00
12	LF	18 Inch White Line for stop line	\$15.00	\$180.00
80	LF	24 Inch White Line for crosswalk	\$20.00	\$1,600.00
0	LF	Sawcut	\$12.00	\$0.00
0	CY	Earthwork	\$50.00	\$0.00
0	EA	White preformed arrow pavement marking	\$200.00	\$0.00
0	EA	ADA Compliant pedestrian ramp with detectable surface	\$1,800.00	\$0.00
0	LF	5 Ft Concrete Sidewalk	\$60.00	\$0.00
0	EA	Repair speed bump missing southern portion	\$1,000.00	\$0.00
0	LF	Retaining Wall 6 Ft High	\$160.00	\$0.00
0	SY	Asphalt Paving	\$40.00	\$0.00
0	LS	Select Tree Trimming	\$200.00	\$0.00

tree / bush removal not included.

Subtotal:	\$1,780.00
Utilities (10%)	\$178.00
M.O.T. (10%)	\$178.00
Contingency (20%)	\$356.00
Total:	\$2,492.00

Opinion of Probable Construction Costs

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24" white thermoplastic

24" white thermoplastic

Grosvenor Place

traffic control device
(replace signage)

Install a 3' wide hatched area
to provide a walking area for
pedestrians. (45° angle)

Install a 3' wide hatched area
to provide a walking area for
pedestrians. (45° angle)

6

39.026779,-77.1076712

Grosvenor Place at South
Access of Grosvenor Park III

7. Preliminary Cost Estimate

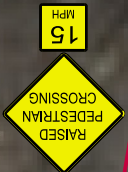
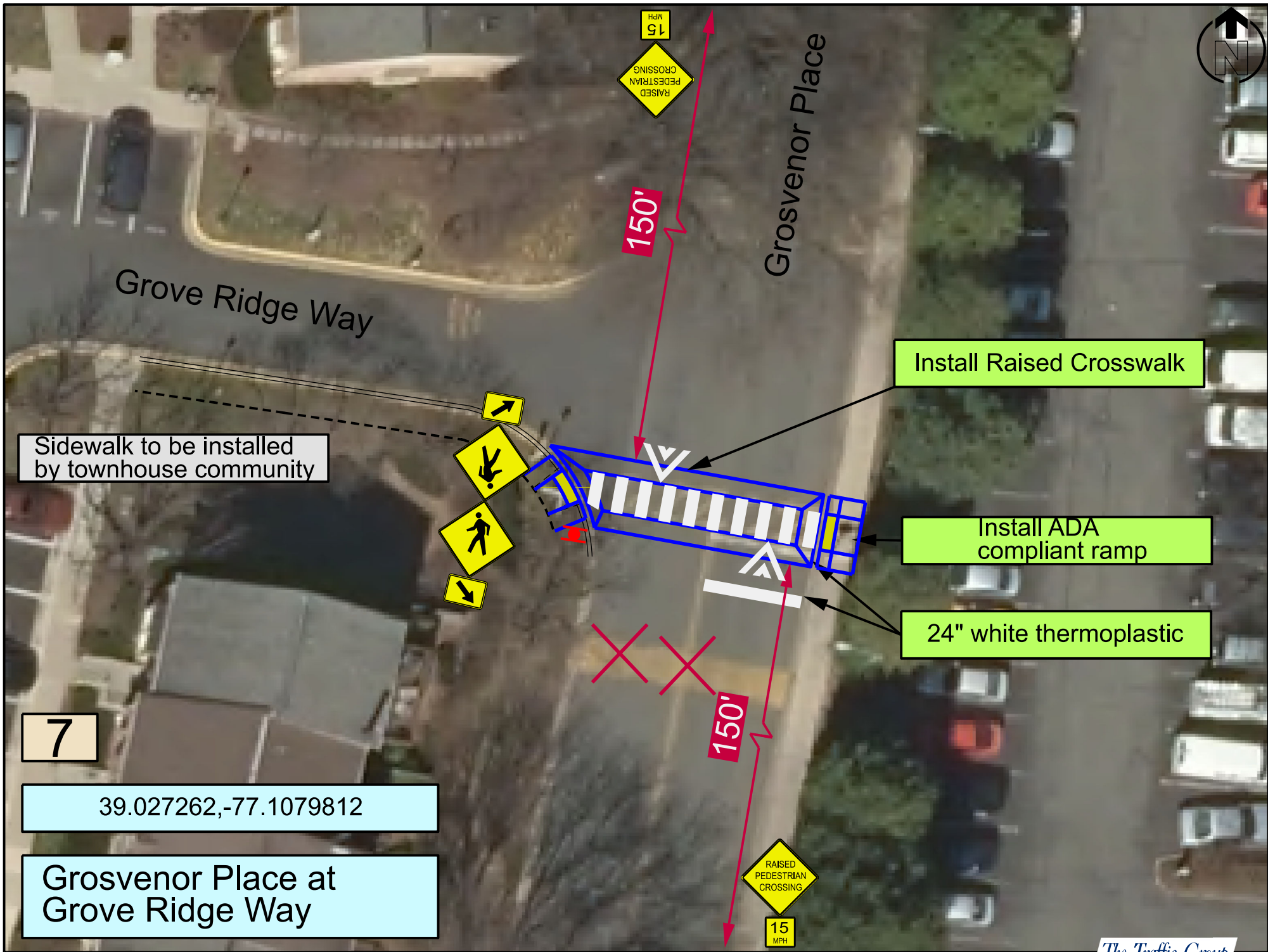
Install new sidewalk area with 2 new ADA compliant pedestrian ramps. Install new raised crosswalk along with new pedestrian signage.

Quantity	Unit	Description	Unit Price	Total Price
4	EA	New 30" x 30" W11-2 Ped sign ground mounted	\$250.00	\$1,000.00
2	EA	New 12" x 24" W16-7pL	\$50.00	\$100.00
2	EA	New 12" x 24" W16-7pR	\$50.00	\$100.00
0	EA	New 30" x 30" R1-1 Stop sign ground mounted	\$250.00	\$0.00
2	EA	New 30" x 30" "raised pedestrian crossing" sign	\$250.00	\$500.00
2	EA	New 18" x 18" W13-1-15 "15 MPH" sign	\$50.00	\$100.00
0	EA	New "Stop Ahead" sign ground mounted	\$250.00	\$0.00
0	LF	5 Inch Yellow Line for center line	\$6.00	\$0.00
20	LF	12 Inch white Line for raised crosswalk arrows	\$10.00	\$200.00
12	LF	18 Inch White Line for stop line	\$15.00	\$180.00
110	LF	24 Inch White Line for crosswalk	\$20.00	\$2,200.00
110	LF	Sawcut	\$12.00	\$1,320.00
8	CY	Earthwork	\$50.00	\$400.00
1	EA	Raised Crosswalk - Asphalt	\$3,500.00	\$3,500.00
2	EA	ADA Compliant pedestrian ramp with detectable surface	\$1,800.00	\$3,600.00
8	LF	5 Ft Concrete Sidewalk	\$60.00	\$480.00
0	EA	Repair speed bump missing southern portion	\$1,000.00	\$0.00
0	LF	Retaining Wall 6 Ft High	\$160.00	\$0.00
0	SY	Asphalt Paving	\$40.00	\$0.00
0	LS	Select Tree Trimming	\$200.00	\$0.00

Subtotal:	\$13,680.00
Utilities (10%)	\$1,368.00
M.O.T. (10%)	\$1,368.00
Contingency (20%)	\$2,736.00
Total:	\$19,152.00

Opinion of Probable Construction Costs

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Grosvenor Place

Grove Ridge Way

150'

Install Raised Crosswalk

Sidewalk to be installed by townhouse community

Install ADA compliant ramp

24" white thermoplastic

7

39.027262,-77.1079812

Grosvenor Place at Grove Ridge Way

150'



8. Preliminary Cost Estimate

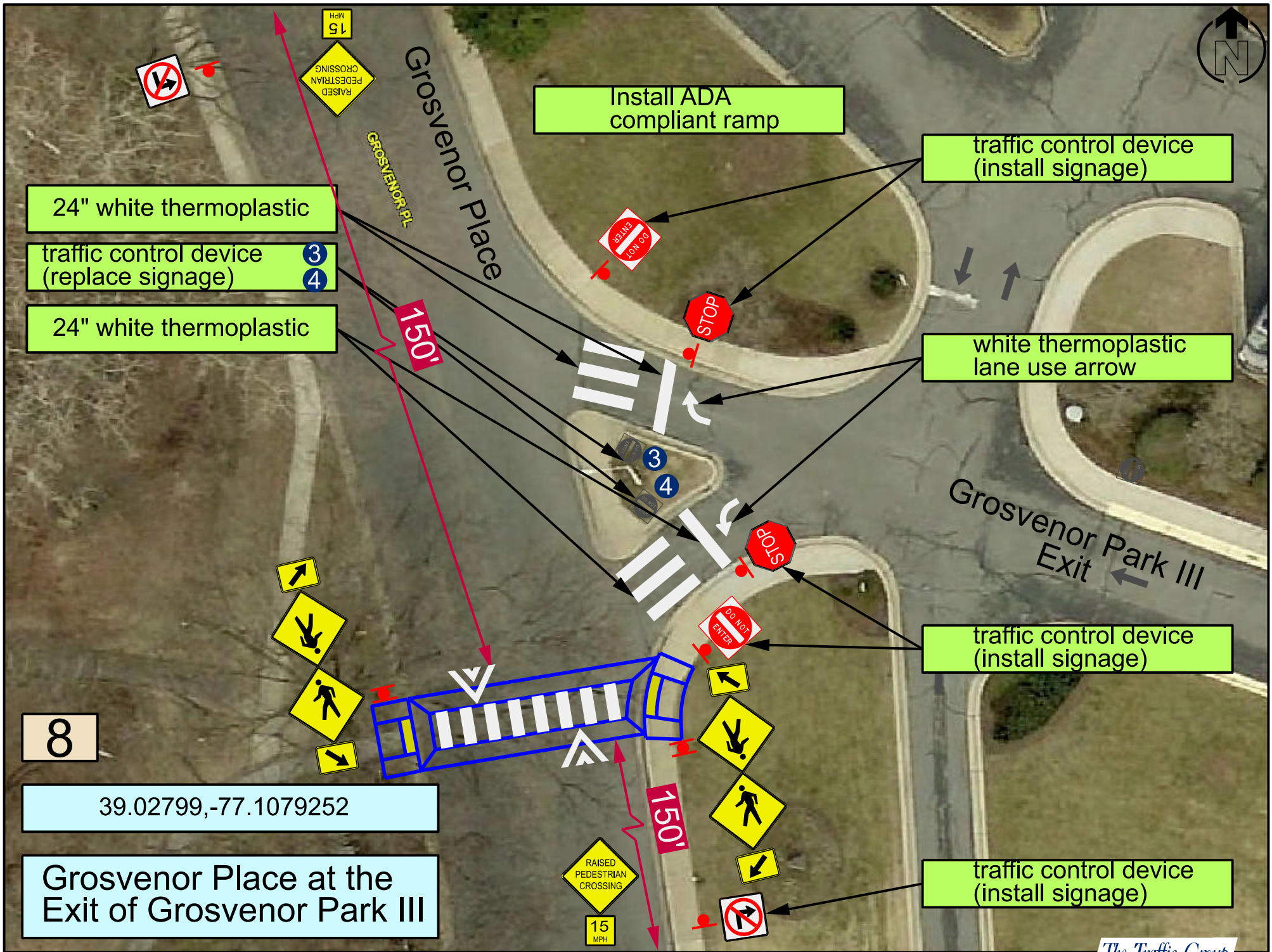
Install new raised crosswalk along with new pedestrian signage. Install 2 new ADA compliant pedestrian ramps.

Quantity	Unit	Description	Unit Price	Total Price
4	EA	New 30" x 30" W11-2 Ped sign ground mounted	\$250.00	\$1,000.00
2	EA	New 12" x 24" W16-7pL	\$50.00	\$100.00
2	EA	New 12" x 24" W16-7pR	\$50.00	\$100.00
1	EA	New 24" x 24" R3-2 (No Left Turn ground mounted)	\$200.00	\$200.00
1	EA	New 24" x 24" R3-2 (No Right Turn ground mounted)	\$200.00	\$200.00
2	EA	New 30" x 30" R1-1 Stop sign ground mounted	\$250.00	\$500.00
2	EA	New 30" x 30" R5-1 "Do Not Enter" sign ground mounted	\$200.00	\$400.00
2	EA	New 30" x 30" "raised pedestrian crossing" sign	\$250.00	\$500.00
2	EA	New 18" x 18" W13-1-15 "15 MPH" sign	\$50.00	\$100.00
0	EA	New "Stop Ahead" sign ground mounted	\$250.00	\$0.00
0	LF	5 Inch Yellow Line for center line	\$6.00	\$0.00
20	LF	12 Inch white Line for raised crosswalk arrows	\$10.00	\$200.00
24	LF	18 Inch White Line for stop line	\$15.00	\$360.00
160	LF	24 Inch White Line for crosswalk	\$20.00	\$3,200.00
110	LF	Sawcut	\$12.00	\$1,320.00
8	CY	Earthwork	\$50.00	\$400.00
1	EA	Raised Crosswalk - Asphalt	\$3,500.00	\$3,500.00
2	EA	ADA Compliant pedestrian ramp with detectable surface	\$1,800.00	\$3,600.00
8	LF	5 Ft Concrete Sidewalk	\$60.00	\$480.00
0	EA	Repair speed bump missing southern portion	\$1,000.00	\$0.00
0	LF	Retaining Wall 6 Ft High	\$160.00	\$0.00
0	SY	Asphalt Paving	\$40.00	\$0.00
0	LS	Select Tree Trimming	\$200.00	\$0.00

Subtotal:	\$16,160.00
Utilities (10%)	\$1,616.00
M.O.T. (10%)	\$1,616.00
Contingency (20%)	\$3,232.00
Total:	\$22,624.00

Opinion of Probable Construction Costs

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Install ADA compliant ramp

traffic control device (install signage)

24" white thermoplastic

traffic control device (replace signage) 3 4

24" white thermoplastic

white thermoplastic lane use arrow

traffic control device (install signage)

traffic control device (install signage)

8

39.02799,-77.1079252

Grosvenor Place at the Exit of Grosvenor Park III

9. Preliminary Cost Estimate

Install new sidewalk area with 2 new ADA compliant pedestrian ramps. Install new raised crosswalk along with new pedestrian signage.

Quantity	Unit	Description	Unit Price	Total Price
4	EA	New 30" x 30" W11-2 Ped sign ground mounted	\$250.00	\$1,000.00
2	EA	New 12" x 24" W16-7pL	\$50.00	\$100.00
2	EA	New 12" x 24" W16-7pR	\$50.00	\$100.00
0	EA	New 30" x 30" R1-1 Stop sign ground mounted	\$250.00	\$0.00
2	EA	New 30" x 30" "raised pedestrian crossing" sign	\$250.00	\$500.00
2	EA	New 18" x 18" W13-1-15 "15 MPH" sign	\$50.00	\$100.00
0	EA	New "Stop Ahead" sign ground mounted	\$250.00	\$0.00
0	LF	5 Inch Yellow Line for center line	\$6.00	\$0.00
20	LF	12 Inch white Line for raised crosswalk arrows	\$10.00	\$200.00
12	LF	18 Inch White Line for stop line	\$15.00	\$180.00
110	LF	24 Inch White Line for crosswalk	\$20.00	\$2,200.00
110	LF	Sawcut	\$12.00	\$1,320.00
8	CY	Earthwork	\$50.00	\$400.00
1	EA	Raised Crosswalk - Asphalt	\$3,500.00	\$3,500.00
2	EA	ADA Compliant pedestrian ramp with detectable surface	\$1,800.00	\$3,600.00
8	LF	5 Ft Concrete Sidewalk	\$60.00	\$480.00
0	EA	Repair speed bump missing southern portion	\$1,000.00	\$0.00
0	LF	Retaining Wall 6 Ft High	\$160.00	\$0.00
0	SY	Asphalt Paving	\$40.00	\$0.00
0	LS	Select Tree Trimming	\$200.00	\$0.00

Subtotal:	\$13,680.00
Utilities (10%)	\$1,368.00
M.O.T. (10%)	\$1,368.00
Contingency (20%)	\$2,736.00
Total:	\$19,152.00

Opinion of Probable Construction Costs

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9

39.024343, -77.1073237

Grosvenor Place at Grosvenor Park I

Grosvenor MTA

4/20/2023

Location: Montgomery County Maryland

TTG Project No.:2020-0815

10. Preliminary Cost Estimate

Misc. Items - Upgrade Existing Speed Humps, Signage upgrades and double yellow center line.

Quantity	Unit	Description	Unit Price	Total Price
9	EA	Upgrade existing flat speed hump to new raised speed hump	\$3,000.00	\$27,000.00
10	EA	Install "Speed Hump" signage for each new speed hump	\$200.00	\$2,000.00
0	EA	New 30" x 30" R1-1 Stop sign ground mounted	\$250.00	\$0.00
1,900	LF	Install 5" Double Yellow Center Line	\$5.00	\$9,500.00
27	EA	Remove and Install replacement signs per sign sheet	\$175.00	\$4,725.00
5	EA	Install Raised Crosswalk with proper signage	\$0.00	\$0.00
			Include within other cost info	

Subtotal:	\$43,225.00
Utilities (10%)	\$4,322.50
M.O.T. (10%)	\$4,322.50
Contingency (20%)	\$8,645.00
Total:	\$60,515.00

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Priority of Improvement Installations

Guiding Principles:

First Priority for improvements would be community Liability Items 1st.

Then having proper signage for the site will help with speeds and provide proper messages.

Then reducing vehicle speeds with new speed humps and raised crosswalks.

Then providing safe pedestrian crossings / paths.

Then any other items. All these items go hand and hand.

1. All existing speed limit signs should be upgraded. This will help with vehicle speeds.
2. All sign upgrades not covered under an Intersection Sheet should be upgraded / replaced. Having proper signage sooner than later will help with speed, pedestrian safety and better establish stop conditions.
3. 9 Remaining flat speed Humps should be replaced with new speed humps / signage. Upgrading these will help with vehicle speeds.
4. Area 2 at the Metro Access Crossing should be implemented. This improvement will make this area safer by removing the pedestrian crossing out of the vehicle access area and slow vehicles.
5. Area 3 at the Grosvenor Lane (Southern Access) should be implemented.
6. Area 1 modifications should be implemented for pedestrian safety.
7. Area 4 modification will provide a safer pedestrian route along the frontage of 10100.
8. Areas 5 and 7 new raised crosswalks. These will slow vehicles and provide safer pedestrian / student crossings.
9. Area 9 installation of a new raised crosswalk will reduce vehicle speeds within the long straightway. Will also provide a new crossing from the homes along the west side of Grosvenor Place to the east side.
10. Area 8 installation of a new raised crosswalk will reduce vehicle speeds within this area and provide a safer pedestrian crossing across Grosvenor Place back and forth for the town home community.
11. Area 6 and all other side street crossings should have painted crosswalks to aid pedestrian crossing.

Paul Dorr

Director of Engineering Design @ TTG

4/20/2023



PRIVATE ROAD Speed Humps
20 MPH

Refer to Sign Standard Sheet: W17-1 and R2-1
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 42" x 42" NEW: 36" x 36" / 18" x 24"
Color	

HIDDEN DRIVE

Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 42" x 42" NEW: 30" x 30"
Color	

DO NOT ENTER

Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	
Color	

DO NOT ENTER

Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	
Color	

STATE LAW
STOP FOR X-WALKERS

Refer to Sign Standard Sheet: R1-1
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	NEW: 30" x 30"
Color	

STOP

Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 31" x 31" NEW: 30" x 30"
Color	

STOP

Refer to Sign Standard Sheet: R1-1
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: (STOP) 27" x 27" NEW: 30" x 30"
Color	

HIDDEN DRIVE

Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	NEW: 30" x 30"
Color	

20 MPH

Refer to Sign Standard Sheet: R2-1 (20 MPH)
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 30" x 30" NEW: 18" x 24"
Color	

HIDDEN DRIVE

Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 42" x 42" NEW: 30" x 30"
Color	

20 MPH

Refer to Sign Standard Sheet: R2-1 (20 MPH)
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	NEW: 18" x 24"
Color	

DO NOT ENTER

Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 18" x 18" NEW: 30" x 30"
Color	

DO NOT ENTER

Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 18" x 18" NEW: 30" x 30"
Color	

20 MPH

Refer to Sign Standard Sheet: R2-1 (20 MPH)
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 30" x 30" NEW: 18" x 24"
Color	

HIDDEN DRIVE

Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 42" x 42"
Color	

20 MPH

Refer to Sign Standard Sheet: R2-1 (20 MPH)
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 30" x 30"
Color	

STOP

Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 30" x 30" NEW: 30" x 30"
Color	

STOP

Refer to Sign Standard Sheet: R1-1
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 30" x 30" NEW: 36" x 36"
Color	

STOP

Refer to Sign Standard Sheet: R1-1
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 30" x 30" NEW: 30" x 30"
Color	

PRIVATE ROAD Speed Humps
20 MPH

Refer to Sign Standard Sheet: W17-1 and R2-1
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	NEW: 36" x 36" / 18" x 24"
Color	

20 MPH

Refer to Sign Standard Sheet: R2-1 (20 MPH)
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	NEW: 18" x 24"
Color	

20 MPH

Refer to Sign Standard Sheet: R2-1 (20 MPH)
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	NEW: 18" x 24"
Color	

PRIVATE ROAD Speed Humps
20 MPH

Refer to Sign Standard Sheet: W17-1 and R2-1
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	NEW: 36" x 36" / 18" x 24"
Color	

STOP

Refer to Sign Standard Sheet: R1-1
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 30" x 30" NEW: 30" x 30"
Color	

STOP

Refer to Sign Standard Sheet: R1-1
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 30" x 30" NEW: 36" x 36"
Color	

STOP

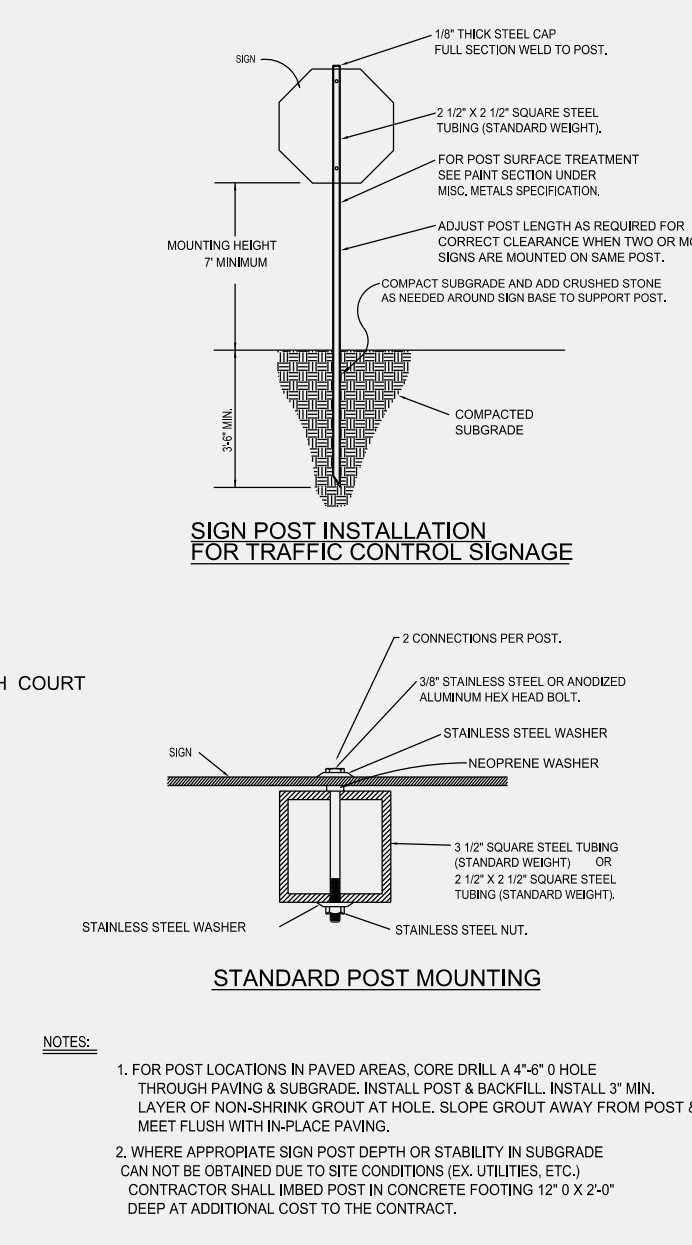
Refer to Sign Standard Sheet: R1-1
Replace with reflective aluminum sign(s).

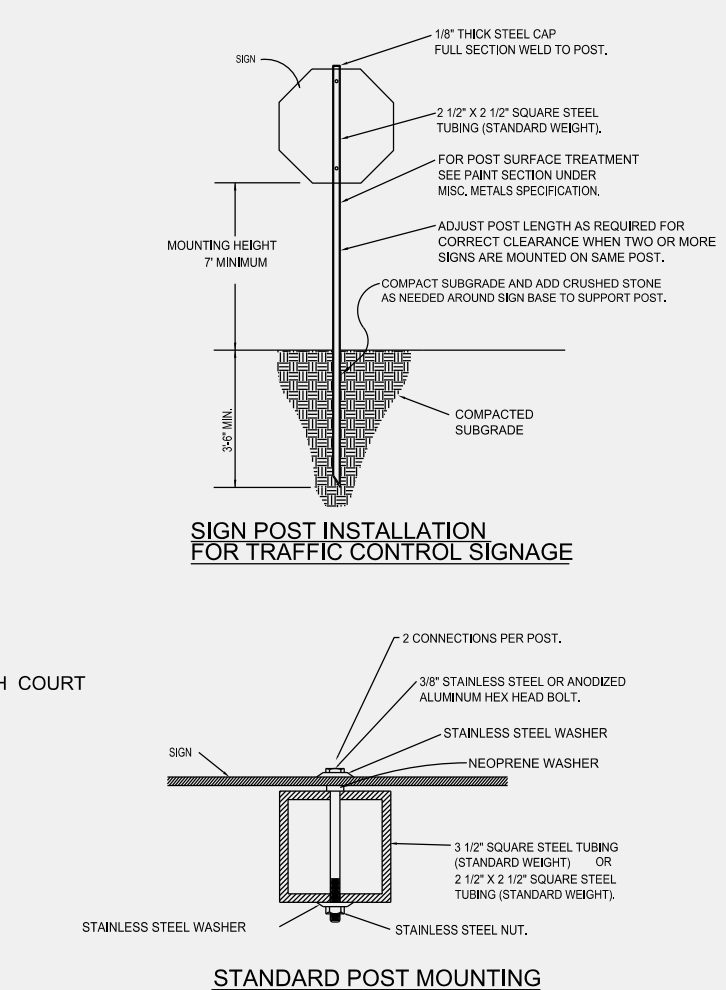
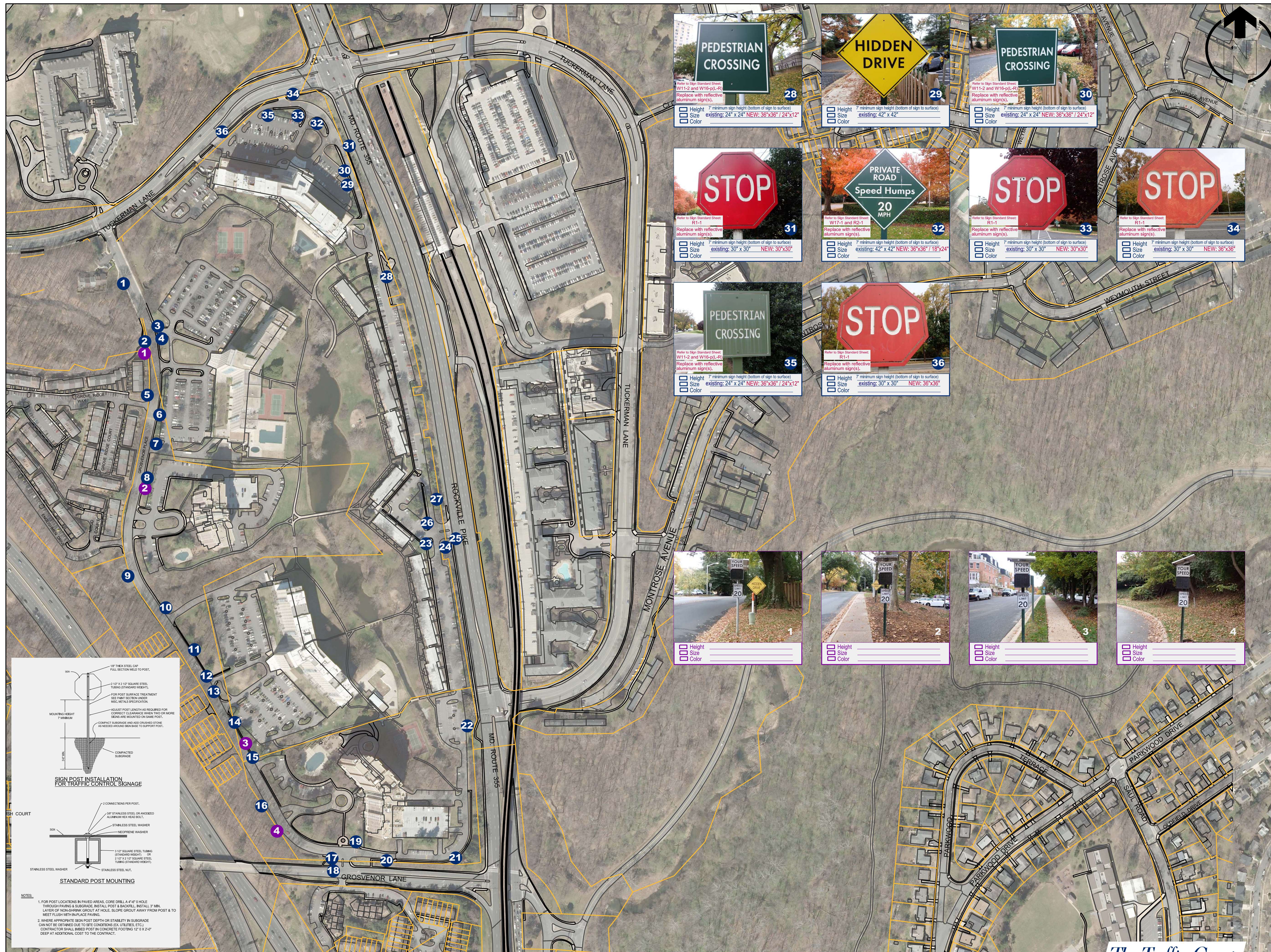
Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 30" x 30" NEW: 30" x 30"
Color	

PRIVATE ROAD Speed Humps
20 MPH

Refer to Sign Standard Sheet: W17-1 and R2-1
Replace with reflective aluminum sign(s).

Height	7' minimum sign height (bottom of sign to surface)
Size	existing: 49" x 49" NEW: 36" x 36" / 18" x 24"
Color	





The Traffic Group, Inc.

(800) 583-8411

www.trafficgroup.com

Merging Innovation and Excellence

Grosvenor Place
Location #1
Montgomery County, Maryland

Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/20/22	0	0	1	0	2	2	0	0	0	0	0	0	0	0	0	5
01:00	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
02:00	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2
06:00	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	3
07:00	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	6
08:00	0	3	1	3	3	2	1	0	0	0	0	0	0	0	0	13
09:00	0	1	6	3	0	0	3	1	1	0	0	0	0	0	0	15
10:00	0	0	3	3	5	6	0	0	0	0	0	0	0	0	0	17
11:00	0	0	0	1	3	7	3	1	0	0	0	0	0	0	0	15
12 PM	0	2	3	2	3	1	0	0	0	0	0	0	0	0	0	11
13:00	0	6	3	3	4	2	0	0	0	0	0	0	0	0	0	18
14:00	0	2	3	3	3	3	0	0	0	0	0	0	0	0	0	14
15:00	0	1	4	5	4	4	1	1	0	0	0	0	0	0	0	20
16:00	0	2	4	3	5	3	1	0	0	0	0	0	0	0	0	18
17:00	0	2	3	7	9	9	1	0	0	0	0	0	0	0	0	31
18:00	0	2	5	11	11	5	3	0	0	0	0	0	0	0	0	37
19:00	0	4	4	8	9	2	1	0	1	0	0	0	0	0	0	29
20:00	0	3	3	5	8	0	1	0	0	0	0	0	0	0	0	20
21:00	0	0	4	1	6	2	2	0	0	0	0	0	0	0	0	15
22:00	0	3	1	2	4	6	1	0	0	0	0	0	0	0	0	17
23:00	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	4
Total	0	31	52	62	85	58	22	3	2	0	0	0	0	0	0	315

The Traffic Group, Inc.

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Merging Innovation and Excellence

Grosvenor Place
Location #1
Montgomery County, Maryland

Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/21/22	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	5
01:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	0	0	1	2	1	1	0	0	0	0	0	0	0	0	5
07:00	0	2	0	1	3	1	0	0	0	0	0	0	0	0	0	7
08:00	0	1	3	2	4	3	0	0	0	0	0	0	0	0	0	13
09:00	0	5	1	2	4	2	1	0	0	0	0	0	0	0	0	15
10:00	0	1	0	3	5	3	2	0	0	0	0	0	0	0	0	14
11:00	0	0	2	0	2	2	0	0	0	0	0	0	0	0	0	6
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	0	9	7	9	23	14	5	0	0	0	0	0	0	0	0	67
Grand Total	1	174	318	498	643	405	132	23	3	0	0	0	0	0	0	2197

Stats

- 15th Percentile : 12 MPH
- 50th Percentile : 20 MPH
- 85th Percentile : 27 MPH
- 95th Percentile : 31 MPH

- Mean Speed(Average) : 21 MPH
- 10 MPH Pace Speed : 16-25 MPH
- Number in Pace : 1141
- Percent in Pace : 51.9%
- Number of Vehicles > 15 MPH : 1704
- Percent of Vehicles > 15 MPH : 77.6%

Grosvenor Place
 Location #1
 Montgomery County, Maryland

The Traffic Group, Inc.

(800) 583-8411

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Merging Innovation and Excellence

Southbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/21/22	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
01:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2
04:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
05:00	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	5
06:00	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	5
07:00	0	0	1	10	12	3	1	0	0	0	0	0	0	0	0	27
08:00	0	0	1	5	7	4	0	1	1	0	0	0	0	0	0	19
09:00	0	1	1	6	6	2	1	0	0	0	0	0	0	0	0	17
10:00	0	1	1	1	2	0	0	0	0	0	0	0	0	0	0	5
11:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	0	3	6	26	31	14	3	2	1	0	0	0	0	0	0	86
Grand Total	5	31	191	417	529	364	131	31	3	0	0	0	0	0	0	1702

Stats

15th Percentile : 15 MPH
 50th Percentile : 21 MPH
 85th Percentile : 28 MPH
 95th Percentile : 33 MPH

Mean Speed(Average) : 22 MPH
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 946
 Percent in Pace : 55.6%
 Number of Vehicles > 15 MPH : 1475
 Percent of Vehicles > 15 MPH : 86.7%

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Merging Innovation and Excellence

Grosvenor Place
Location #2
Montgomery County, Maryland

Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/14/22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	0	0	1	3	6	5	5	2	0	0	0	0	0	0	0	22
13:00	0	0	2	4	6	10	5	1	1	0	0	0	0	0	0	29
14:00	0	0	1	3	7	11	4	0	0	0	0	0	0	0	0	26
15:00	0	0	0	2	11	11	1	1	0	0	0	0	0	0	0	26
16:00	0	1	0	1	11	9	4	1	0	0	0	0	0	0	0	27
17:00	0	0	1	6	11	11	6	1	0	0	0	0	0	0	0	36
18:00	0	0	2	3	9	17	3	2	0	0	0	0	0	0	0	36
19:00	0	0	0	4	10	8	3	0	0	0	0	0	0	0	0	25
20:00	0	1	0	2	3	7	5	0	0	0	0	0	0	0	0	18
21:00	0	0	0	4	3	3	2	1	1	0	0	0	0	0	0	14
22:00	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	5
23:00	0	1	0	0	2	6	1	0	0	0	0	0	0	0	0	10
Total	0	4	7	33	80	99	40	9	2	0	0	0	0	0	0	274

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Merging Innovation and Excellence

Grosvenor Place
 Location #2
 Montgomery County, Maryland

Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/21/22	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
01:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2
05:00	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	3
06:00	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	7
07:00	0	0	0	2	6	4	4	1	0	0	0	0	0	0	0	17
08:00	0	0	1	1	3	5	9	2	0	0	0	0	0	0	0	21
09:00	0	0	1	2	3	7	4	0	0	0	0	0	0	0	0	17
10:00	0	0	1	3	6	2	2	0	0	0	0	0	0	0	0	14
11:00	0	0	2	5	4	0	3	1	0	0	0	0	0	0	0	15
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	0	0	7	13	26	24	23	6	0	0	0	0	0	0	0	99
Grand Total	0	28	109	345	764	818	411	89	8	3	0	0	0	0	0	2575

Stats

- 15th Percentile : 18 MPH
- 50th Percentile : 25 MPH
- 85th Percentile : 31 MPH
- 95th Percentile : 34 MPH

- Mean Speed(Average) : 26 MPH
- 10 MPH Pace Speed : 21-30 MPH
- Number in Pace : 1582
- Percent in Pace : 61.4%
- Number of Vehicles > 15 MPH : 2438
- Percent of Vehicles > 15 MPH : 94.7%

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Grosvenor Place
 Location #2
 Montgomery County, Maryland

Southbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/19/22	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	4
01:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	3
04:00	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
05:00	0	0	2	0	2	0	2	1	0	0	0	0	0	0	0	7
06:00	0	0	0	2	6	4	1	0	0	0	0	0	0	0	0	13
07:00	0	1	0	4	8	13	4	0	1	0	0	0	0	0	0	31
08:00	0	0	2	7	13	10	3	0	1	0	0	0	0	0	0	36
09:00	0	0	1	1	5	5	2	0	0	0	0	0	0	0	0	14
10:00	0	0	0	4	3	3	3	1	0	0	0	0	0	0	0	14
11:00	0	0	0	4	6	0	2	0	0	0	0	0	0	0	0	12
12 PM	0	0	0	3	5	4	2	1	0	0	0	0	0	0	0	15
13:00	0	0	2	1	4	3	0	0	0	0	0	0	0	0	0	10
14:00	0	0	0	1	7	3	0	0	2	0	0	0	0	0	0	13
15:00	0	0	0	3	7	1	2	0	0	0	0	0	0	0	0	14
16:00	0	0	0	1	6	6	1	0	0	0	0	0	0	0	0	13
17:00	0	0	1	4	10	6	3	0	0	0	0	0	0	0	0	24
18:00	0	0	1	1	10	2	0	0	0	0	0	0	0	0	0	14
19:00	0	0	0	4	4	4	4	0	0	0	0	0	0	0	0	16
20:00	0	0	0	3	1	4	0	0	0	0	0	0	0	0	0	8
21:00	0	0	0	3	5	4	1	0	0	0	0	0	0	0	0	13
22:00	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	5
23:00	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	4
Total	0	2	10	48	110	77	31	5	4	0	0	0	0	0	0	287

The Traffic Group, Inc.

Grosvenor Place
 Location #2
 Montgomery County, Maryland

(800) 583-8411

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Southbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/21/22	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
01:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2
04:00	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
05:00	0	0	0	2	1	0	3	1	1	0	0	0	0	0	0	8
06:00	0	0	1	2	4	4	0	1	0	0	0	0	0	0	0	12
07:00	0	1	0	6	10	13	6	2	0	0	0	0	0	0	0	38
08:00	0	0	2	3	11	6	7	0	1	1	0	0	0	0	0	31
09:00	0	0	1	0	11	8	4	0	0	0	0	0	0	0	0	24
10:00	0	0	0	4	2	4	3	1	0	0	0	0	0	0	0	14
11:00	0	0	0	2	3	4	1	0	0	0	0	0	0	0	0	10
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	0	1	4	21	42	40	26	6	3	1	0	0	0	0	0	144
Grand Total	0	10	102	369	720	542	254	57	16	3	0	0	0	0	0	2073

Stats
 15th Percentile : 17 MPH
 50th Percentile : 23 MPH
 85th Percentile : 30 MPH
 95th Percentile : 34 MPH

Mean Speed(Average) : 25 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 1262
 Percent in Pace : 60.9%
 Number of Vehicles > 15 MPH : 1961
 Percent of Vehicles > 15 MPH : 94.6%

Grosvenor Place
 Location #3
 Montgomery County, Maryland

The Traffic Group, Inc.

(800) 583-8411

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Merging Innovation and Excellence

Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/20/22	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
05:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
06:00	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	3
07:00	0	0	0	0	0	2	5	1	1	0	0	0	0	0	0	9
08:00	0	0	0	0	2	3	4	3	0	0	0	0	0	0	0	12
09:00	0	0	0	1	6	5	4	0	0	0	0	0	0	0	0	16
10:00	0	0	0	0	1	0	5	3	0	0	0	0	0	0	0	9
11:00	0	0	0	0	2	3	5	4	0	0	0	0	0	0	0	14
12 PM	0	0	0	1	0	0	4	0	3	0	0	0	0	0	0	8
13:00	0	0	0	0	1	5	5	4	0	0	0	0	0	0	0	15
14:00	0	0	0	1	1	3	2	3	1	0	0	0	0	0	0	11
15:00	0	0	1	2	2	4	2	1	0	0	0	0	0	0	0	12
16:00	0	0	0	1	3	5	9	1	1	0	0	0	0	0	0	20
17:00	0	0	0	1	2	3	6	4	0	0	0	0	0	0	0	16
18:00	0	0	1	1	1	11	9	2	0	0	0	0	0	0	0	25
19:00	0	0	0	0	0	8	4	3	1	0	0	0	0	0	0	16
20:00	0	0	0	0	2	4	1	2	0	0	0	0	0	0	0	9
21:00	0	0	0	1	4	4	2	0	1	0	0	0	0	0	0	12
22:00	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	4
23:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
Total	0	0	2	10	29	63	72	32	9	0	0	0	0	0	0	217
Grand Total	6	0	35	88	193	415	395	215	51	5	0	0	0	0	0	1403

Stats
 15th Percentile : 22 MPH
 50th Percentile : 29 MPH
 85th Percentile : 36 MPH
 95th Percentile : 39 MPH

Mean Speed(Average) : 30 MPH
 10 MPH Pace Speed : 26-35 MPH
 Number in Pace : 811
 Percent in Pace : 57.8%
 Number of Vehicles > 15 MPH : 1362
 Percent of Vehicles > 15 MPH : 97.1%

Grosvenor Place
 Location #3
 Montgomery County, Maryland

The Traffic Group, Inc.

(800) 583-8411

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Merging Innovation and Excellence

Southbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/20/22	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	2	1	0	0	1	0	0	0	0	0	0	4
06:00	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	5
07:00	0	0	1	1	6	6	9	1	0	0	0	0	0	0	0	24
08:00	0	0	0	4	8	15	6	2	0	0	0	0	0	0	0	35
09:00	0	0	3	3	10	3	1	1	0	0	0	0	0	0	0	21
10:00	0	0	1	6	2	4	0	4	0	0	0	0	0	0	0	17
11:00	0	0	0	0	7	1	0	0	0	0	0	0	0	0	0	8
12 PM	0	0	2	3	4	4	4	1	1	0	0	0	0	0	0	19
13:00	0	0	1	1	3	2	1	2	0	0	0	0	0	0	0	10
14:00	0	0	3	4	4	10	0	0	0	0	0	0	0	0	0	21
15:00	0	2	0	4	2	4	4	0	0	0	0	0	0	0	0	16
16:00	0	0	2	8	7	8	2	0	0	0	0	0	0	0	0	27
17:00	0	0	0	2	11	6	1	2	0	1	0	0	0	0	0	23
18:00	0	1	1	1	9	10	5	1	0	0	0	0	0	0	0	28
19:00	0	1	1	1	5	7	1	0	0	0	0	0	0	0	0	16
20:00	0	0	1	2	3	2	1	0	1	0	0	0	0	0	0	10
21:00	0	1	1	5	4	2	0	0	0	0	0	0	0	0	0	13
22:00	0	1	2	0	0	4	0	0	0	0	0	0	0	0	0	7
23:00	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3
Total	0	6	19	48	91	92	36	14	3	2	0	0	0	0	0	311
Grand Total	1	43	93	255	575	563	206	61	16	3	0	0	0	0	0	1816

Stats

- 15th Percentile : 17 MPH
- 50th Percentile : 24 MPH
- 85th Percentile : 30 MPH
- 95th Percentile : 34 MPH

Mean Speed(Average) : 25 MPH

10 MPH Pace Speed : 21-30 MPH

Number in Pace : 1138

Percent in Pace : 62.7%

Number of Vehicles > 15 MPH : 1679

Percent of Vehicles > 15 MPH : 92.5%

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Grosvenor Place
 Location #4
 Montgomery County, Maryland

Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/14/22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	1	0	3	5	16	31	12	1	1	0	0	0	1	0	0	71
13:00	0	3	4	9	21	35	9	0	1	1	0	0	0	0	0	83
14:00	1	1	1	3	18	38	16	3	0	0	0	0	0	0	0	81
15:00	0	0	0	6	28	35	27	5	1	0	0	0	0	0	0	102
16:00	0	0	1	7	21	50	21	6	1	0	0	0	0	0	0	107
17:00	0	0	1	5	34	45	23	5	0	0	0	0	0	0	0	113
18:00	0	1	1	9	30	44	27	7	1	0	0	0	0	0	0	120
19:00	3	1	0	5	20	41	9	5	0	0	0	0	0	0	0	84
20:00	0	0	0	2	22	22	4	0	1	0	0	0	0	0	0	51
21:00	0	0	1	5	11	32	5	1	0	0	0	0	0	0	0	55
22:00	0	1	2	2	6	11	6	1	0	0	0	0	0	0	0	29
23:00	0	1	0	1	5	10	3	2	0	0	0	0	0	0	0	22
Total	5	8	14	59	232	394	162	36	6	1	0	0	1	0	0	918

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Grosvenor Place
 Location #4
 Montgomery County, Maryland

Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/20/22	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
01:00	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	5
02:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
03:00	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
04:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
05:00	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	4
06:00	0	0	1	2	4	2	1	0	2	0	0	0	0	0	0	12
07:00	0	0	3	2	15	20	6	5	0	0	0	0	0	0	0	51
08:00	0	0	2	9	27	23	9	0	1	0	0	0	0	0	0	71
09:00	2	1	3	4	14	16	8	2	0	0	0	0	0	0	0	50
10:00	0	0	0	3	13	12	5	3	0	0	0	0	0	0	0	36
11:00	0	1	0	2	16	31	12	3	1	0	0	1	0	0	0	67
12 PM	0	1	2	7	18	27	16	3	1	0	0	0	0	0	0	75
13:00	0	2	3	2	19	31	10	1	0	0	0	0	0	0	0	68
14:00	0	0	2	4	12	29	12	4	1	0	0	0	0	0	0	64
15:00	0	0	4	10	20	55	24	1	2	0	0	0	0	0	0	116
16:00	1	1	1	12	32	51	25	5	1	0	0	0	0	0	0	129
17:00	0	0	0	8	33	51	23	5	1	0	0	0	0	0	0	121
18:00	2	2	1	13	39	56	22	3	0	0	0	0	0	0	0	138
19:00	1	0	0	3	30	43	16	2	1	0	0	0	0	0	0	96
20:00	0	0	0	4	19	30	11	1	0	0	0	0	0	0	0	65
21:00	1	0	0	4	11	20	13	0	0	0	0	0	0	0	0	49
22:00	0	0	0	1	6	11	5	0	0	0	0	0	0	0	0	23
23:00	0	0	0	2	6	5	6	0	0	0	0	0	0	0	0	19
Total	8	8	22	93	337	518	227	39	12	0	0	1	0	0	0	1265

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Grosvenor Place
 Location #4
 Montgomery County, Maryland

Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/21/22	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	6
01:00	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	5
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	3
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
05:00	0	0	0	0	0	3	1	2	0	0	0	0	0	0	0	6
06:00	0	1	0	2	4	6	3	1	0	0	0	0	0	0	0	17
07:00	0	0	0	3	14	22	8	1	0	0	0	0	0	0	0	48
08:00	0	0	0	6	18	23	8	2	0	0	0	0	0	0	0	57
09:00	0	0	0	3	13	25	12	1	0	0	0	0	0	0	0	54
10:00	0	0	1	6	19	16	4	1	0	0	0	0	0	0	0	47
11:00	0	0	1	6	25	24	10	2	3	0	0	0	0	0	0	71
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	0	1	2	26	96	124	52	11	3	0	0	0	0	0	0	315
Grand Total	47	60	122	687	2369	3482	1523	270	45	5	0	1	1	0	0	8612

Stats

- 15th Percentile : 20 MPH
- 50th Percentile : 26 MPH
- 85th Percentile : 31 MPH
- 95th Percentile : 34 MPH

- Mean Speed(Average) : 27 MPH
- 10 MPH Pace Speed : 21-30 MPH
- Number in Pace : 5856
- Percent in Pace : 68.0%
- Number of Vehicles > 15 MPH : 8383
- Percent of Vehicles > 15 MPH : 97.3%

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Grosvenor Place
 Location #4
 Montgomery County, Maryland

Southbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/21/22	0	0	0	1	2	2	0	1	0	0	0	0	0	0	0	6
01:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
04:00	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	4
05:00	0	0	0	1	4	5	2	1	0	0	0	0	0	0	0	13
06:00	0	0	0	2	7	11	7	1	1	0	0	0	0	0	0	29
07:00	0	0	0	7	25	31	14	4	3	0	0	0	0	0	0	84
08:00	0	0	0	4	24	43	21	4	0	1	0	0	0	0	0	97
09:00	1	1	0	9	22	34	10	5	0	0	0	0	0	0	0	82
10:00	0	0	0	5	12	23	10	3	2	0	0	0	0	0	0	55
11:00	0	0	0	4	11	24	16	3	1	0	0	0	0	0	0	59
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	1	1	0	33	109	178	81	22	7	1	0	0	0	0	0	433
Grand Total	4	21	86	718	2379	2856	1275	306	60	4	0	0	0	0	0	7709

Stats

- 15th Percentile : 20 MPH
- 50th Percentile : 26 MPH
- 85th Percentile : 31 MPH
- 95th Percentile : 34 MPH

- Mean Speed(Average) : 27 MPH
- 10 MPH Pace Speed : 21-30 MPH
- Number in Pace : 5235
- Percent in Pace : 67.9%
- Number of Vehicles > 15 MPH : 7598
- Percent of Vehicles > 15 MPH : 98.6%

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Grosvenor Place
Location #5
Montgomery County, Maryland

Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/15/22	0	0	0	0	4	3	1	0	0	0	0	0	0	0	0	8
01:00	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0	6
06:00	0	0	0	1	5	9	6	2	1	0	0	0	0	0	0	24
07:00	0	0	0	7	27	26	9	1	0	0	0	0	0	0	0	70
08:00	0	0	2	4	34	32	11	0	0	0	0	0	0	0	0	83
09:00	0	0	1	7	25	28	7	1	0	0	0	0	0	0	0	69
10:00	0	1	3	12	20	22	6	0	0	0	0	0	0	0	0	64
11:00	0	0	2	17	37	23	7	1	0	0	0	0	0	0	0	87
12 PM	0	1	2	18	32	26	7	0	0	0	0	0	0	0	0	86
13:00	0	0	0	10	27	21	5	2	0	0	0	0	0	0	0	65
14:00	0	1	3	4	29	24	15	2	0	0	0	0	0	0	0	78
15:00	0	2	4	15	36	37	13	5	0	0	0	0	0	0	0	112
16:00	0	0	3	11	53	40	8	1	0	0	0	0	0	0	0	116
17:00	0	0	4	15	44	29	16	2	0	0	0	0	0	0	0	110
18:00	0	1	1	15	38	41	2	0	0	0	0	0	0	0	0	98
19:00	0	1	0	12	41	29	9	4	0	0	0	0	0	0	0	96
20:00	0	0	0	5	37	15	7	3	0	1	0	0	0	0	0	68
21:00	0	0	0	4	17	17	4	1	0	0	0	0	0	0	0	43
22:00	0	0	0	5	5	8	0	1	0	0	0	0	0	0	0	19
23:00	0	0	0	1	6	8	1	0	0	0	0	0	0	0	0	16
Total	0	7	25	167	522	440	135	26	1	1	0	0	0	0	0	1324

Grosvenor Place
 Location #5
 Montgomery County, Maryland

The Traffic Group, Inc.

(800) 583-8411

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Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/21/22	0	0	0	1	5	1	1	0	0	0	0	0	0	0	0	8
01:00	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3
02:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	3
04:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
05:00	0	0	0	0	2	3	4	0	0	0	0	0	0	0	0	9
06:00	0	0	0	3	5	12	2	1	0	0	0	0	0	0	0	23
07:00	0	0	0	5	22	36	5	1	1	0	0	0	0	0	0	70
08:00	0	0	4	5	35	28	5	2	0	0	0	0	0	0	0	79
09:00	0	2	1	7	24	17	7	1	0	0	0	0	0	0	0	59
10:00	0	2	1	14	23	18	2	0	0	0	0	0	0	0	0	60
11:00	0	2	4	21	34	18	3	1	0	0	0	0	0	0	0	83
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	0	6	10	58	154	135	30	6	1	0	0	0	0	0	0	400
Grand Total	8	32	164	1126	3462	3043	904	128	13	2	0	0	0	0	0	8882

Stats
 15th Percentile : 20 MPH
 50th Percentile : 24 MPH
 85th Percentile : 29 MPH
 95th Percentile : 33 MPH

 Mean Speed(Average) : 25 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 6506
 Percent in Pace : 73.2%
 Number of Vehicles > 15 MPH : 8678
 Percent of Vehicles > 15 MPH : 97.7%

Grosvenor Place
 Location #5
 Montgomery County, Maryland

The Traffic Group, Inc.
 (800) 583-8411
 www.trafficgroup.com
Merging Innovation and Excellence

Southbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
09/18/22	0	0	0	0	1	10	4	1	0	0	0	0	0	0	0	16
01:00	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	5
02:00	0	0	0	0	0	2	1	2	0	0	0	0	0	0	0	5
03:00	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
04:00	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3
05:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
06:00	0	0	0	0	0	7	1	0	0	0	0	0	0	0	0	8
07:00	0	0	0	0	5	6	1	0	0	0	0	0	0	0	0	12
08:00	0	0	0	1	3	17	8	1	0	1	0	0	0	0	0	31
09:00	0	0	0	3	17	28	11	2	0	0	0	0	0	0	0	61
10:00	0	0	1	2	15	31	12	7	1	0	0	0	0	0	0	69
11:00	0	0	0	2	26	40	11	2	0	0	0	0	0	0	0	81
12 PM	0	0	0	5	25	45	14	3	0	0	0	0	0	0	0	92
13:00	0	0	0	4	25	38	13	1	0	0	0	0	0	0	0	81
14:00	0	0	0	6	22	45	17	3	0	0	0	0	0	0	0	93
15:00	0	0	0	3	23	41	23	6	0	0	0	0	0	0	0	96
16:00	0	0	1	3	20	39	7	3	0	0	0	0	0	0	0	73
17:00	0	0	0	12	30	49	16	4	0	0	0	0	0	0	0	111
18:00	0	0	0	6	23	31	12	3	0	0	0	0	0	0	0	75
19:00	0	0	0	2	27	38	14	3	0	0	0	0	0	0	0	84
20:00	0	0	0	3	19	29	11	1	0	0	0	0	0	0	0	63
21:00	0	0	0	3	1	20	4	1	0	0	0	0	0	0	0	29
22:00	0	0	0	0	7	9	3	1	0	0	0	0	0	0	0	20
23:00	0	0	0	0	0	8	3	0	0	0	0	0	0	0	0	11
Total	0	0	2	57	291	538	188	44	1	1	0	0	0	0	0	1122

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Grosvenor Place
 Location #5
 Montgomery County, Maryland

Southbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
09/21/22	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
01:00	0	0	0	0	2	3	2	0	0	0	0	0	0	0	0	7
02:00	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
04:00	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	1	0	4	0	1	0	0	0	0	0	0	0	4
06:00	0	0	0	0	5	6	4	3	0	0	0	0	0	0	0	6
07:00	0	0	0	5	18	28	9	1	2	0	0	0	0	0	0	18
08:00	0	0	0	2	16	32	19	2	0	1	0	0	0	0	0	63
09:00	0	0	2	2	13	31	14	3	1	0	0	0	0	0	0	72
10:00	0	0	1	6	15	23	13	2	0	0	0	0	0	0	0	66
11:00	0	0	0	9	22	14	7	1	1	0	0	0	0	0	0	60
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	54
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	0	0	3	26	93	146	68	13	4	1	0	0	0	0	0	354
Grand Total	1	12	48	453	2235	3583	1470	262	30	6	0	0	0	0	0	8100

Stats

- 15th Percentile : 21 MPH
- 50th Percentile : 26 MPH
- 85th Percentile : 31 MPH
- 95th Percentile : 34 MPH

Mean Speed(Average) : 27 MPH

10 MPH Pace Speed : 21-30 MPH

- Number in Pace : 5818
- Percent in Pace : 71.8%
- Number of Vehicles > 15 MPH : 8039
- Percent of Vehicles > 15 MPH : 99.2%