

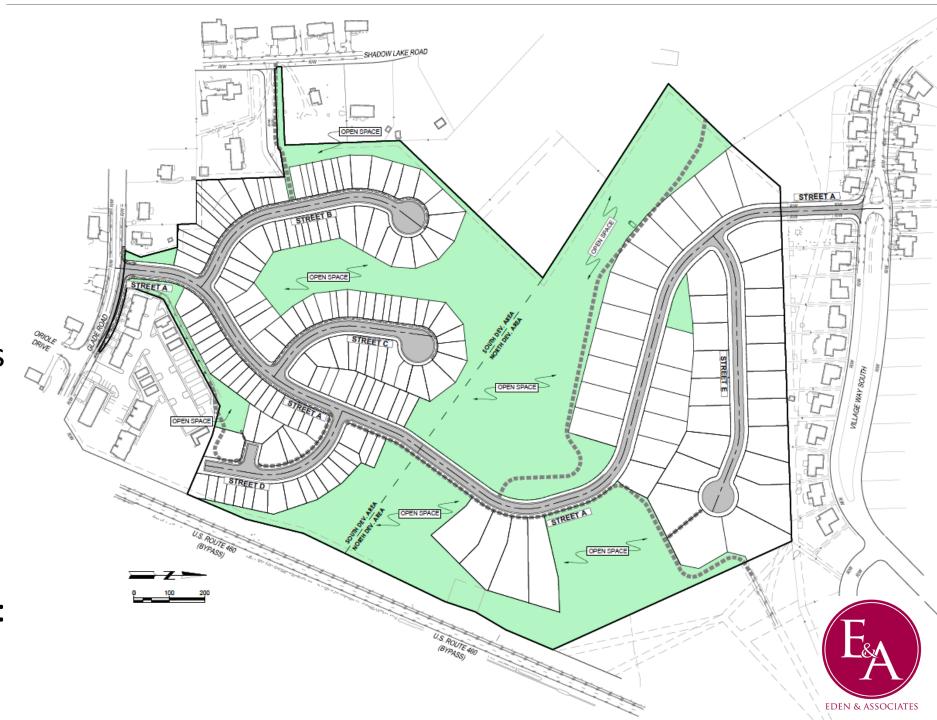
Planning Commission Worksession January 31, 2023





Topics

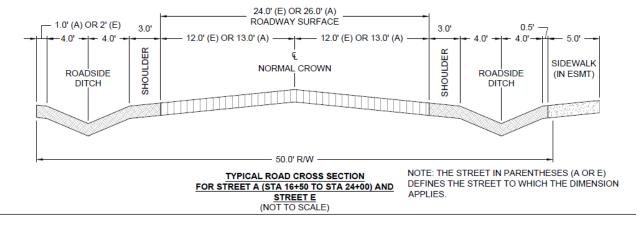
- Road A Cross section reasoning
- Site Development Regulation changes
- Other notable changes
- Alternative Road Plan
- Managed Successional Areas: Landscaping



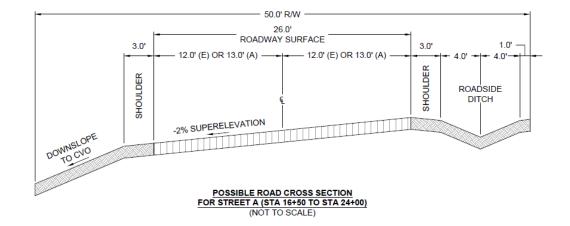


North area Road Cross section reasoning curb/gutter and sidewalk variance Typical Section

Ditch on both sides of road



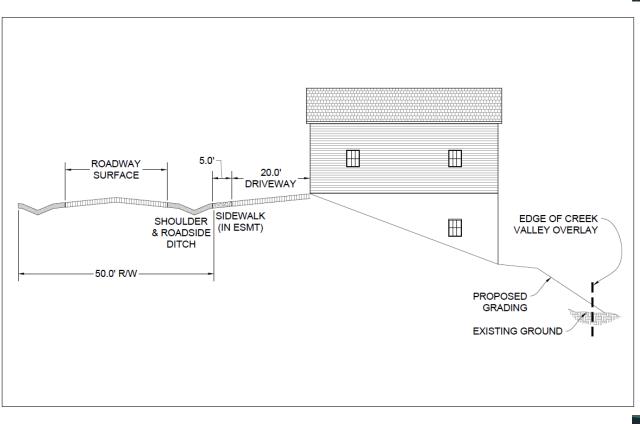
Superelevated road with overland flow across lots, no ditch needed

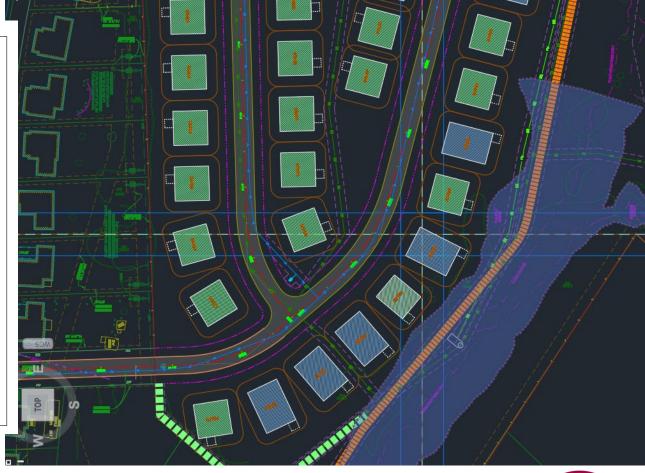






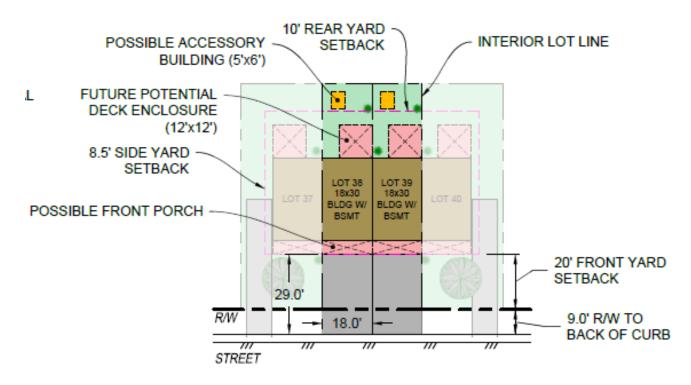
Sidewalk & Curb/Gutter Variance







Site Development Regulation Changes



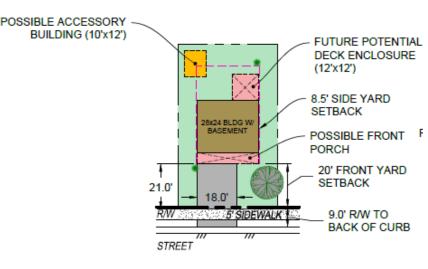
LOTS 38 AND 39 SCENARIO

LOT AREA: 1489 SF

TOTAL FLOOR AREA: 1884 SF

F.A.R.: 1.27

TOTAL LOT COVERAGE: 1164 SF MAX. LOT COVERAGE: 78%

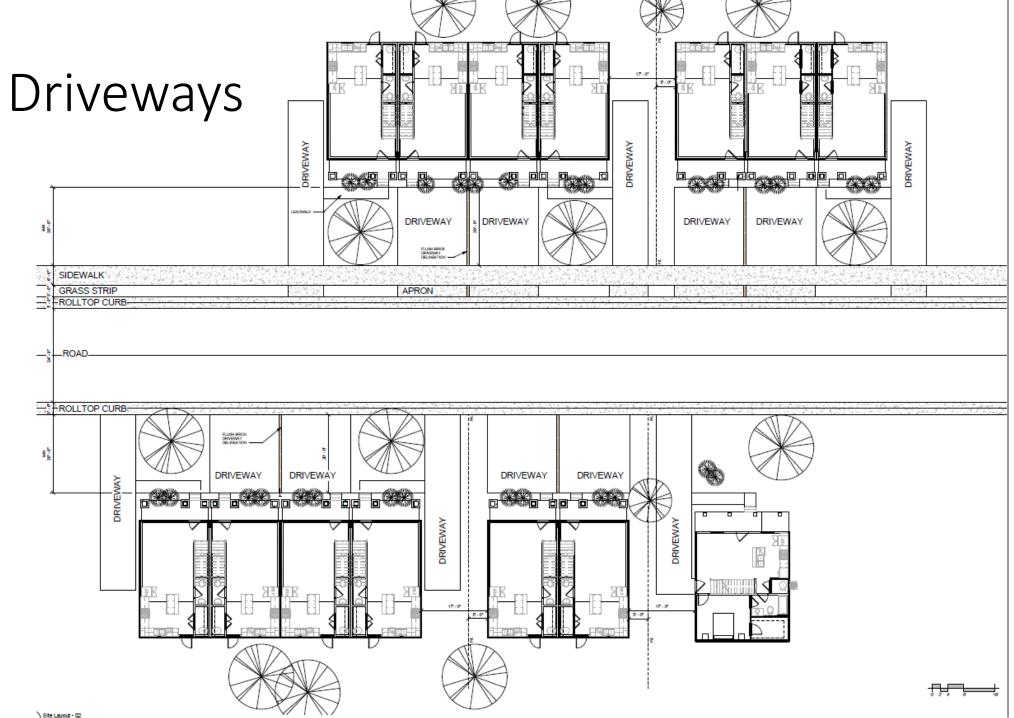


LOT 83 SCENARIO

LOT AREA: 3450 SF TOTAL FLOOR AREA: 2420 SF F.A.R.: 0.70 TOTAL LOT COVERAGE: 1436 SF MAX. LOT COVERAGE: 42%

- FAR: South area Single Family = 0.7
- Remove accessory apartments
- Driveways:
 - No more than two contiguous 18' wide driveways
 - Variance to allow parking in front of building for townhouses/two-family
 - Side setback change: 17' minimum between units, 5' to lot line.
 - Solidify wording to provide 20' minimum length driveway





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DRAWN DATE: 11/23/2022

DRAFTED BY: archi-TEC-tonic

REVISED DATE:

SITE DRIVEWAY CONCEPT

A100

Driveways





3 CONCEPT 02 - VIEW 01





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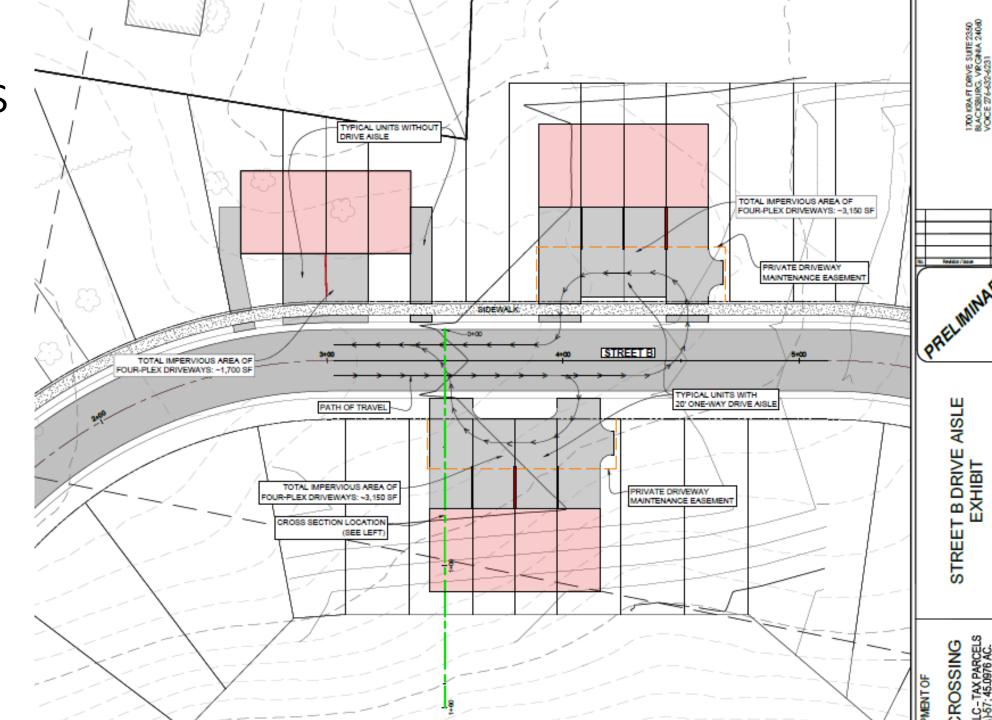


DRAWN DATE: 11/23/2022

A101

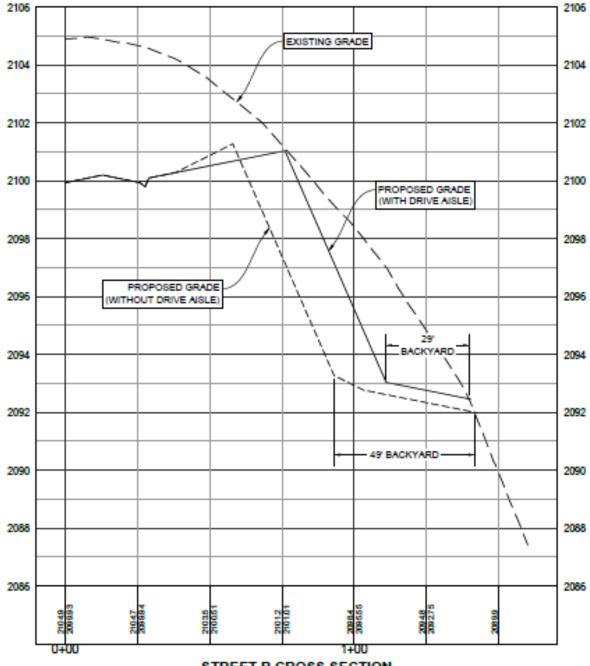
CONCEPTUAL

Driveways





Driveways



STREET B CROSS SECTION
SCALE: 1"=20' HORIZ.; 1"=2' VERT.



Other notable changes

- Proffers added or altered
 - Canopy timing:
 - 5% total site canopy planted within 3 years after CO's issued in phase 1 (i.e. street trees, yard trees, existing woodland, riparian plantings)
 - 7% total site canopy planted within 3 years after CO's issued in phase 2 (i.e. street trees, managed successional plantings, riparian plantings, etc.)
 - Managed successional areas shall begin being managed by the HOA within 1-year after the conclusion of phase 2 infrastructure.
 - HERS rating maximum of 75 for all units in the development (other than the 10 affordable 60-80% AMI: Earthcraft Gold).
- Floor plans added
- Breaking up Facades on Townhomes as an alternative to staggered setbacks: No two adjacent and attached townhome units shall be identical. In order to meet this requirement, variation may be provided in exterior color, exterior materials, fenestration, and/or porch details.

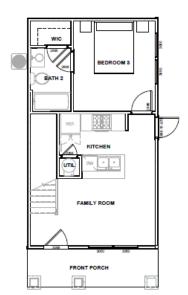


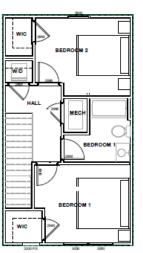
FIRST FLOOR PLAN 2 Bed, 1 1/2 Bath

wic

W/D









540 SF 540 SF

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DRAWN DATE: 07/26/2021

DRAFTED BY: archi-TEC-tonic

REVISED DATE: 07/26/2021

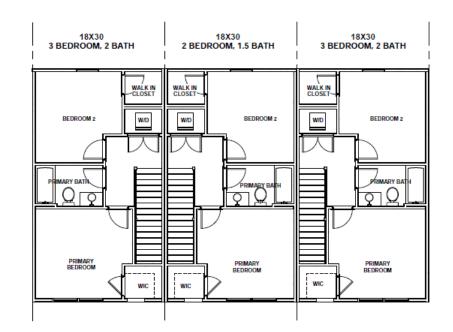
SCHEMATIC FLOOR PLANS

18X30

wic



OVERALL FIRST FLOOR PLAN



TWO BEDROOM, ONE AND

. THREE BEDROOM, TWO

A HALF BATH.

SAMPLE OF ATTACHED 18X30 NUMBER OF UNITS WILL VARY



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DRAWN DATE: DRAFTED BY: archi-TEC-tonic REVISED DATE:

ATTACHED SCHEMATIC PLANS

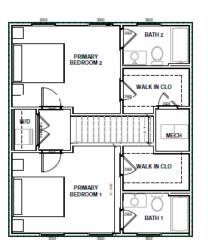
18X30 ATTACHED

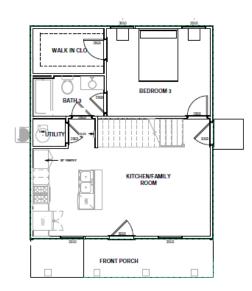
OVERALL SECOND FLOOR



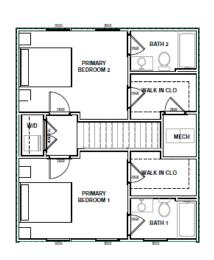
FIRST FLOOR PLAN - TWO BEDROOM

SECOND FLOOR PLAN - TWO BEDROOM





FIRST FLOOR PLAN - THREE BEDROOM



SECOND FLOOR PLAN - THREE BEDROOM







FIRST FLOOR: SECOND FLOOR: 672 SF 672 SF TOTAL SQ. FOOTAGE: 1,344 SF

 TWO BEDROOM, TWO AND A HALF BATH.

 THREE BEDROOM, THREE BATH.

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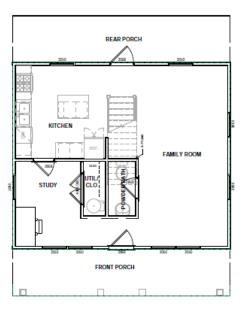




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TWO AND THREE BEDROOMS SCHEMATIC FLOOR PLANS

24X28



FIRST FLOOR PLAN - TWO BEDROOM



REAR PORCH

FIRST FLOOR PLAN - THREE BEDROOM



SECOND FLOOR PLAN - TWO BEDROOM



SECOND FLOOR PLAN - THREE BEDROOM

FIRST FLOOR: SECOND FLOOR:

672 SF 672 SF TOTAL SQ. FOOTAGE: 1,344 SF

 TWO BEDROOM, TWO AND A HALF BATH.

 THREE BEDROOM, THREE AND A HALF BATH.





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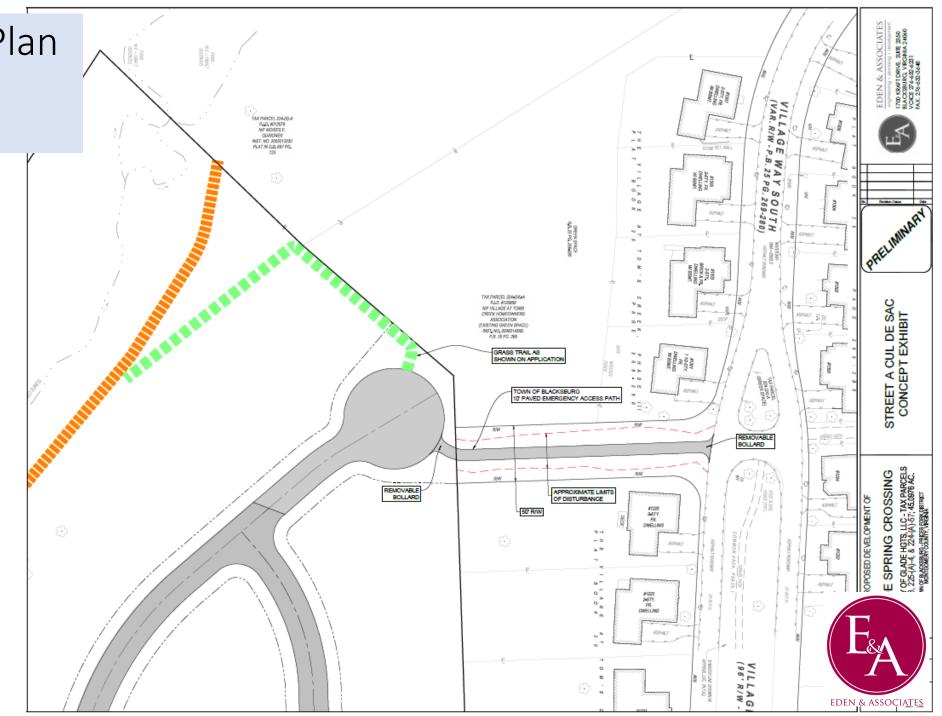
DRAWN DATE: DRAFTED BY: archi-TEC-tonic REVISED DATE: 07/26/2021

FLOOR SCHEMATIC F PLANS TW0

28X24

Alternative Road Plan Concept: based on neighborhood feedback

- Pros
 - No traffic issues through the Village at Tom's Creek
 - Reduces traffic pressure on Glade/Old Glade
 - No safety sacrifice
 - Less costly
 - Retain density
 - Provide pedestrian connectivity "out of the street"
 - Eliminates landing and slope variances for public road
 - Less traffic along Road A in GSC
 - No need to construct outside right-of-way
- Cons
 - Variance for No access to adjoining property
 - Variance for culdesac length
 - Carbon emissions, gas use, travel time increase.



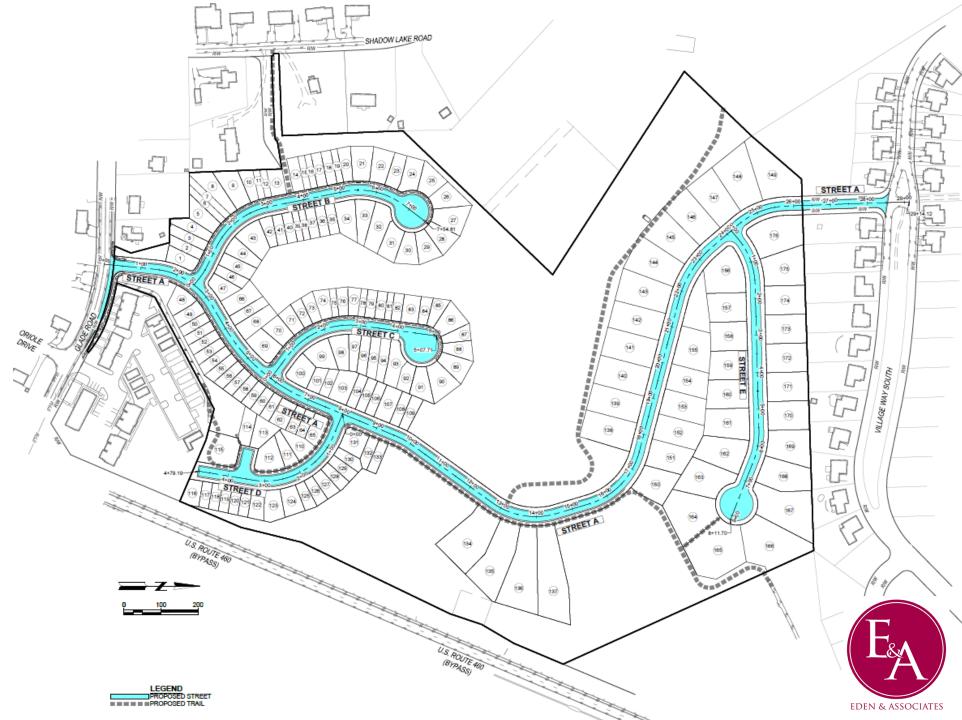
Managed Successional Areas

Traffic/Transportation Issues



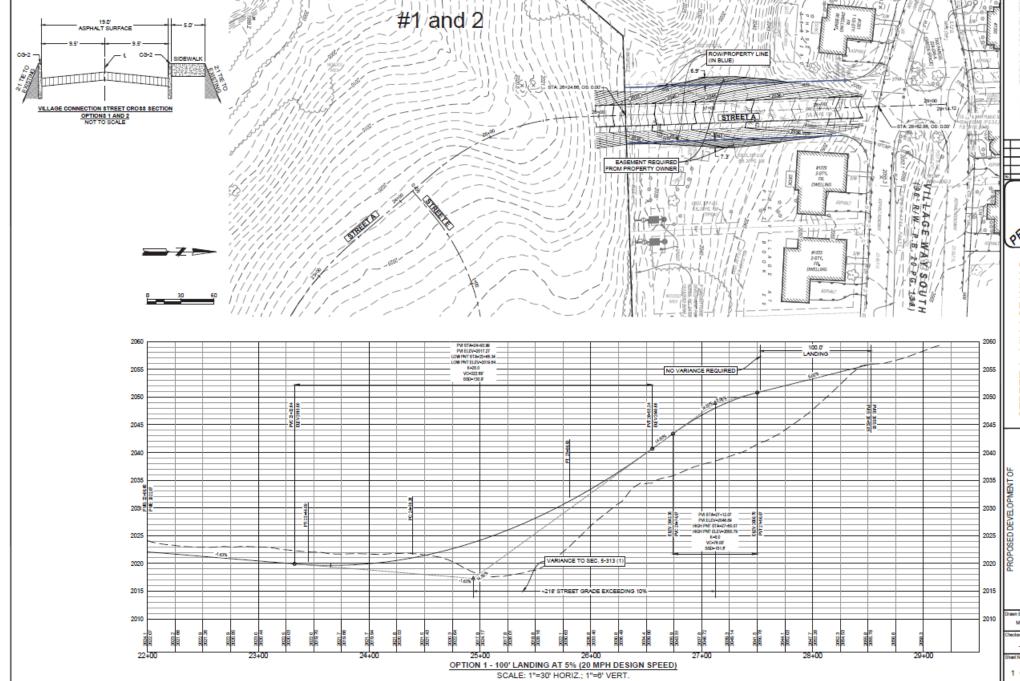


Transportation Circulation



Slope/Landing Variance at VWS intersection

• Sidewalk, landing by code

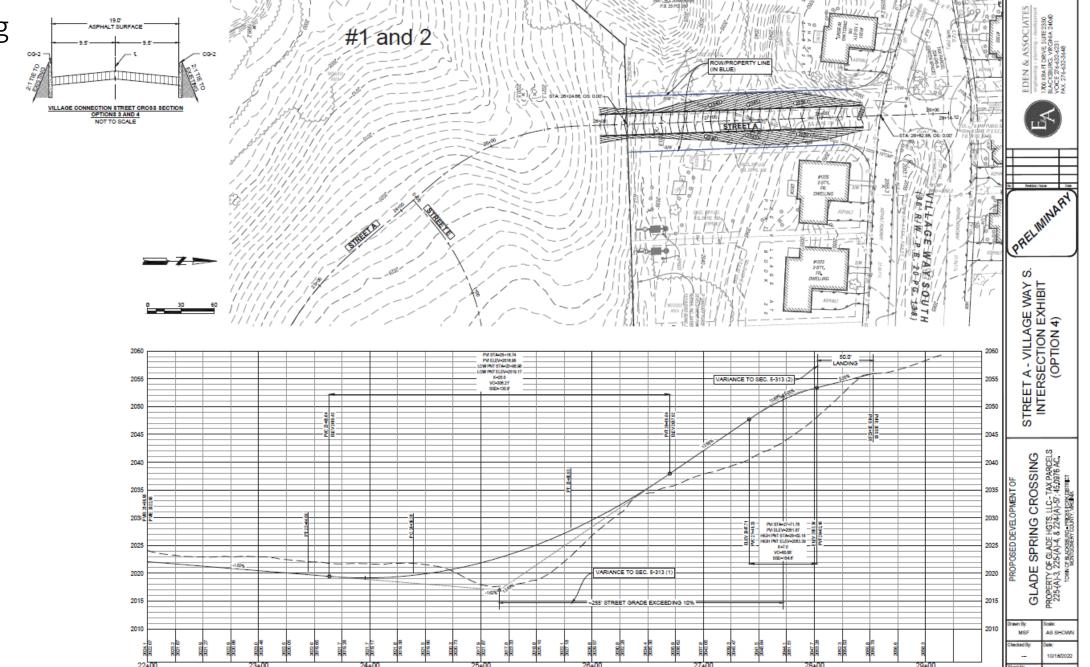




EX1

Slope/Landing Variance at VWS Connection

 With sidewalk and landing variance



SCALE: 1"=30' HORIZ.; 1"=6' VERT.



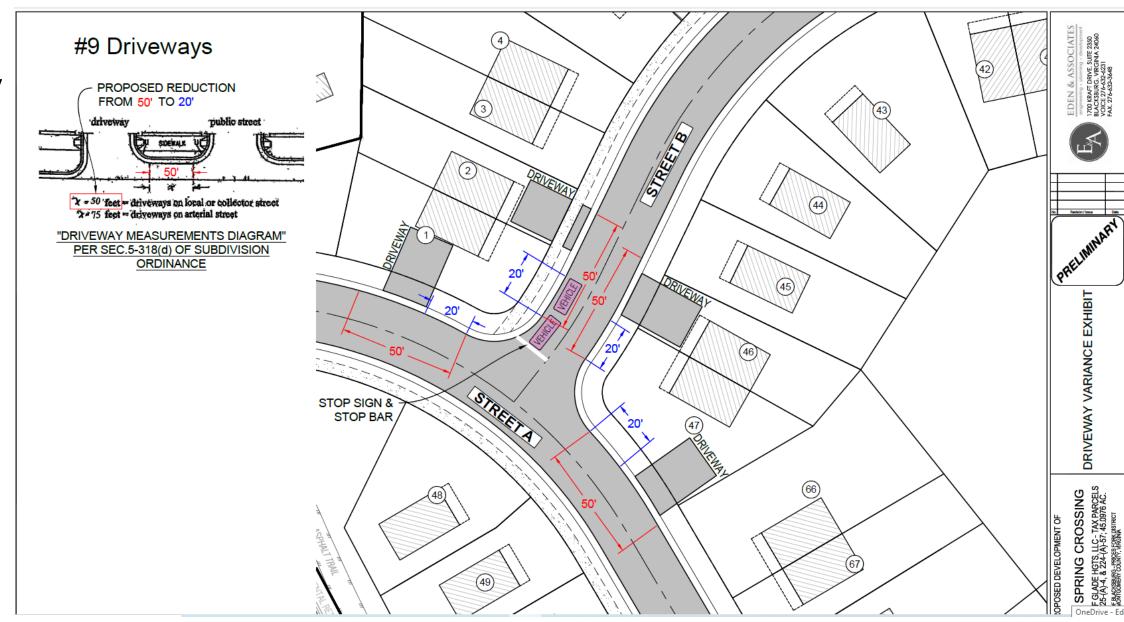
Walnut Dr: Givens Farm

Similar to our connection >12% grade non-standard landing

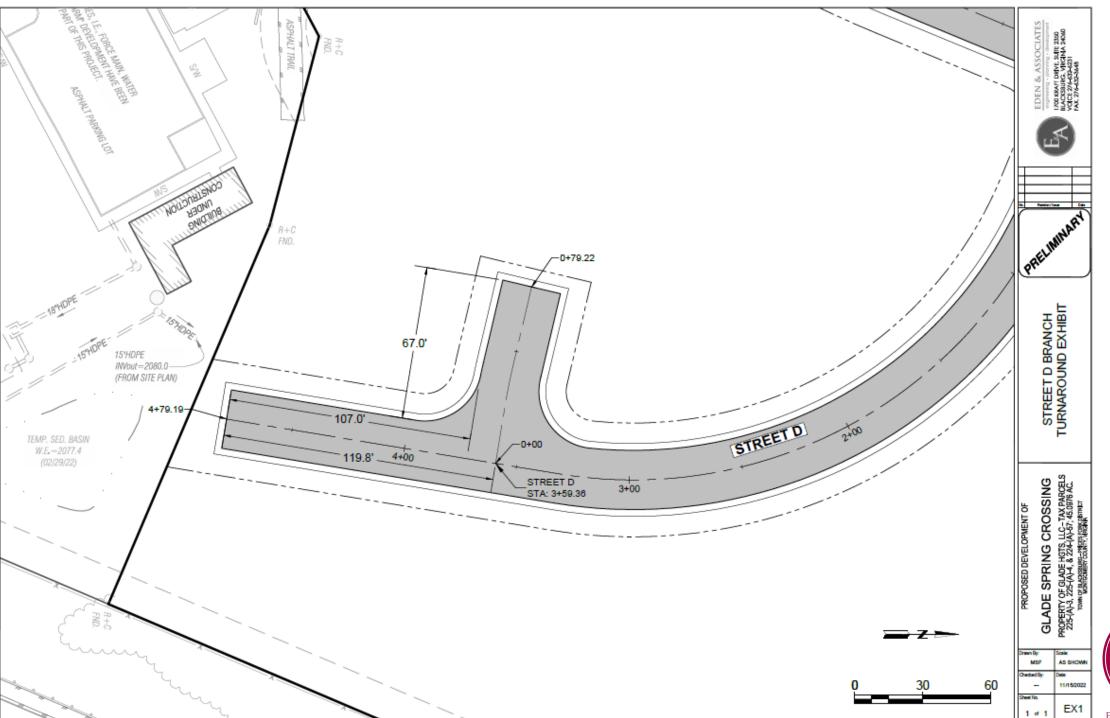




Driveway variance











Transportation Circulation

Traffic Study: of trip generated by the development

AM peak hour: 5 cars entering from V@TC

1 car in 12 minutes

AM peak hour: 14 cars exiting to V@TC

1 car in 4 minutes

PM peak hour: 16 cars entering from V@TC

PM peak hour: 10 cars exiting to V@TC

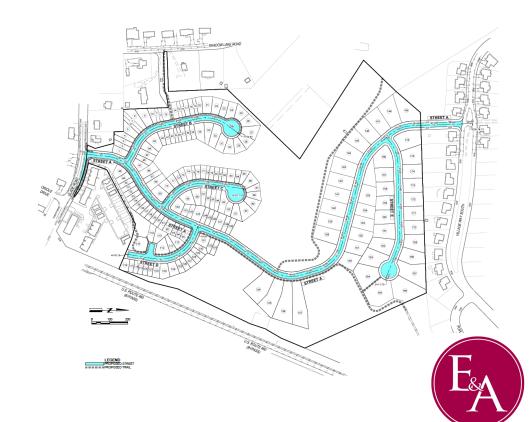
Land Use (ITE Land Use Code)	Size	Weekday Daily Traffic (vpd)		AM Peak Hour (vph)		PM Peak Hour (vph)	
		Enter	Exit	Enter	Exit	Enter	Exit
Single Family Detached Housing (210)	180 units	867	867	33	94	109	64

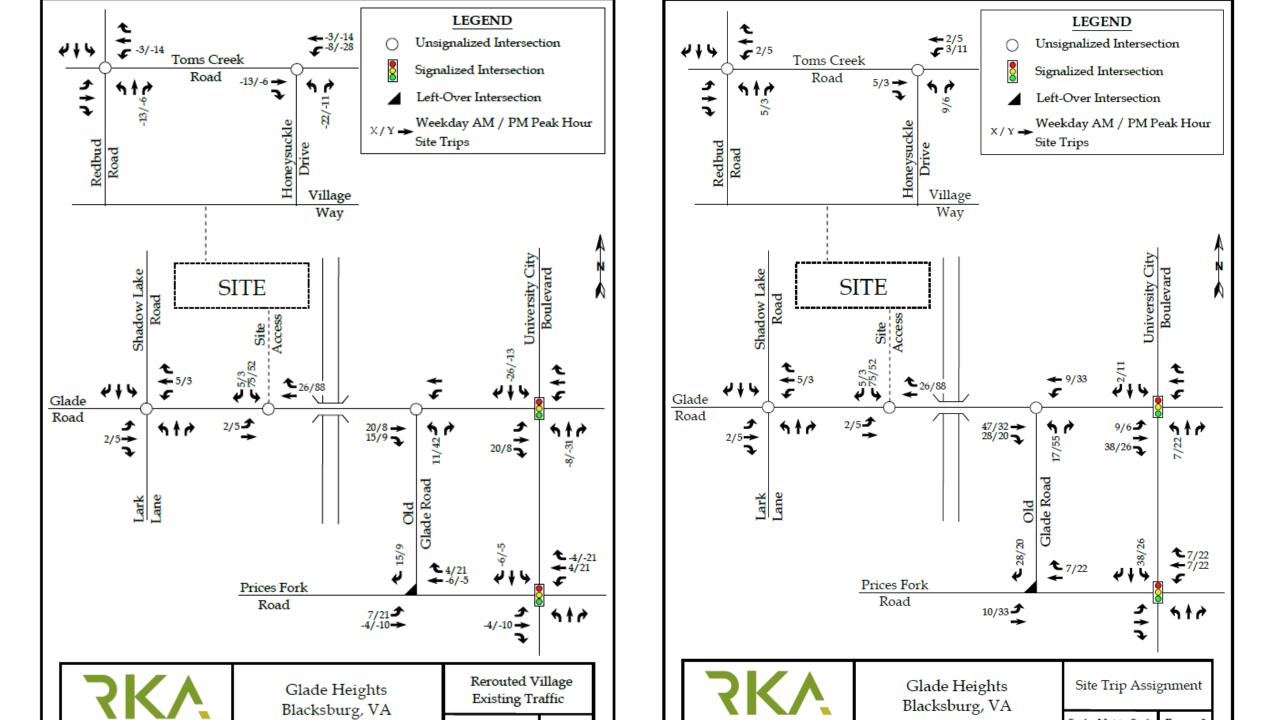
Site Trip Distribution

The following site trip distribution was applied based on a review of the existing traffic volumes, the adjacent roadway network, and engineering judgement:

- 10% to / from the north on University City Boulevard
- 40% to / from the east on Prices Fork Road
- 30% to / from the west on Prices Fork Road
- 5% to/from the west on Glade Road
- 15% to/from the east on Toms Creek Road

Through coordination with the Town, it was determined that 30% of the existing traffic utilizing Honeysuckle Drive or Redbud Road to access the Village neighborhood to the north of the proposed site would utilize the proposed interconnectivity to access Glade Road instead of continuing to utilize the Toms Creek Road.





Glade/Old Glade

- Issue: LOS F on Northbound Left turn
- Traffic Signal not warranted
- 3-way stop warranted in no-build condition (NOW)

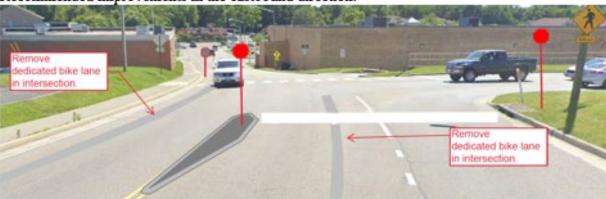




Potential image in the westbound direction.







Westbound

- Least intrusive fix
- Island in ex. Bicycle lane, stop sign and stop bar
- Modify dedicated bicycle lane
- Provide adequate traffic control measures during construction
- \$50-60k does not include pedestrian crossing problems, lack of landing on Glade.

Visibility concerns in the eastbound direction.



Eastbound



- Island to separate through lanes and place two stop signs and stop bars
- Stop ahead sign at Citgo

3-way stop: Pros and Cons

- Improve LOS on Old Glade
- Worsen LOS on Glade (major collector)
- Maximum queues do not reach the Kroger driveways to the east. Stop about 150 feet short of the intersection
- An all-way stop with multiple lanes on multiple approaches decreases in safety and creates more confusion.
 - Commercial entrance (Vol 2)
 - Kroger loading dock
- \$50-60k

OTHER OPTIONS?

- Roundabout?
- Traffic signal cheaper?

Table 5: Level-of-Service Summary for Old Glade Road & Glade Road

CONDITION	LANE GROUP	AM PEAK HOUR				PM PEAK HOUR			
		Lane LOS	Lane Delay (sec)	Lane Queue (ft)	Overall LOS (Delay)	Lane LOS	Lane Delay (sec)	Lane Queue (ft)	Overall LOS (Delay)
Existing (2022) Conditions	EBT EBR WBL/T ² NBL ¹ NBR ¹	 A B A	9 15 10	 10 20 13	N/A ³	 A D A	 8 28 10	 10 103 15	N/A³
No-Build (2026) Conditions	EBT EBR WBL/T ² NBL ¹ NBR	 A B A	 9 15 10	 10 20 13	N/A³	 A E A	 8 37 10	 10 135 15	N/A ³
Build (2026) Conditions	EBT EBR WBL/T ² NBL ¹ NBR	 A C B	 9 17 10	 10 33 13	N/A ³	A F B	8 133 10	 13 378 15	N/A ³
Build (2026) Conditions (All- Way Stop)	EBT EBR WBL/T NBL NBR	B B B A	11 10 11 12 10	40 40 30 25 15	B (11)	B B C D B	13 11 24 27 11	40 28 145 148 25	C (20)

- 1. Level of service for minor approach
- 2. Level of service for major-street left-turn movement
- HCM methodology does not provide lane group or overall LOS, delay, and queue lengths for major street through movements or right turns at unsignalized intersections.

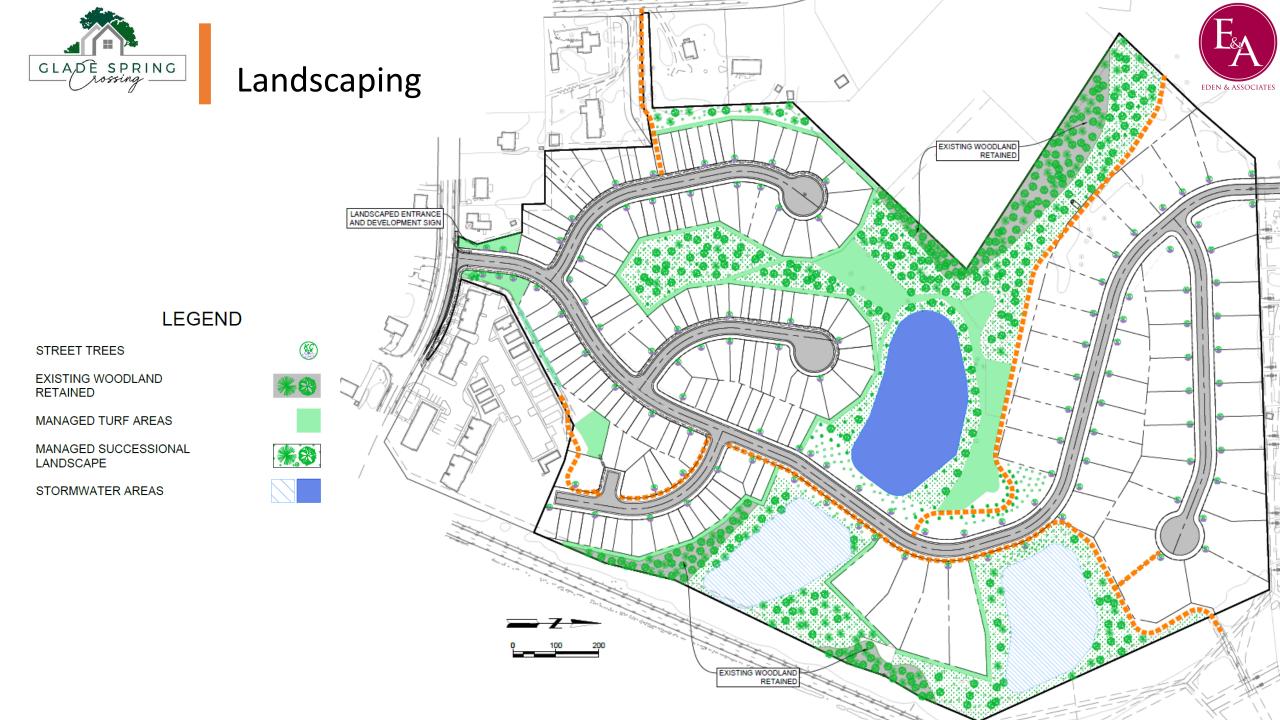
EDEN & ASSOCIATES



Open Space Management Land Use Plan





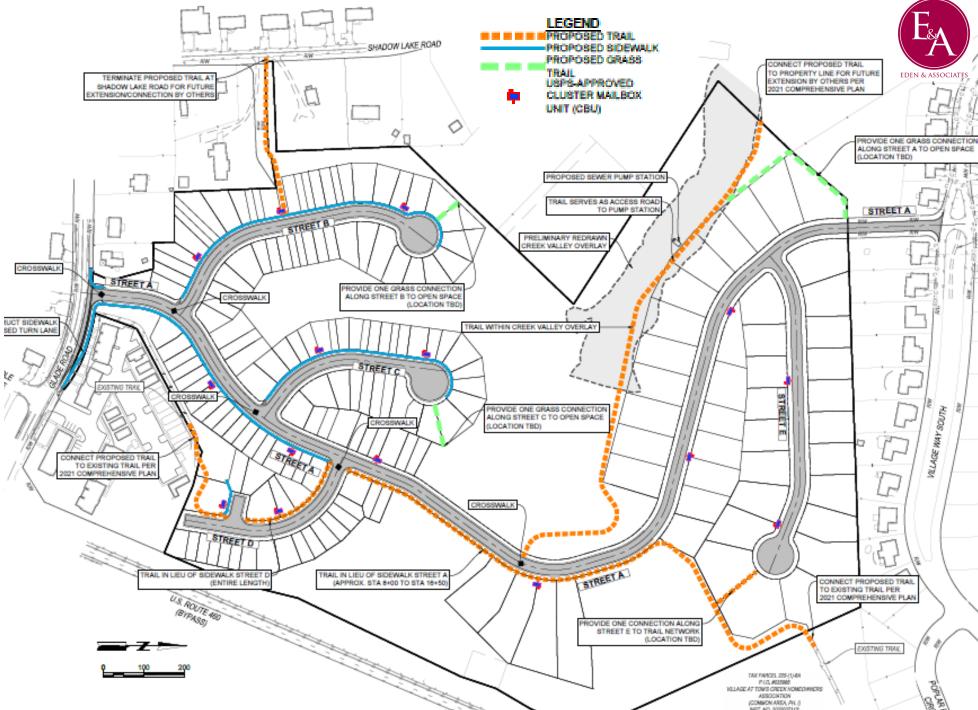




Sidewalk and Trails

- 4000 feet trail
- 2000 feet sidewalk
- grass trails





Downstream Sewer Capacity

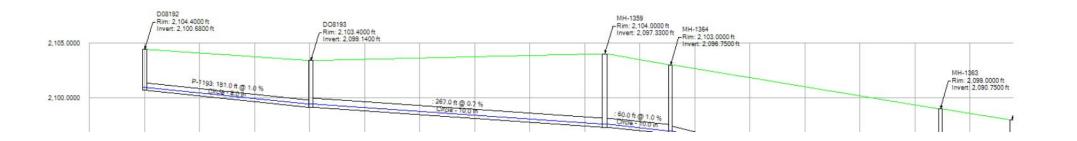


- Karr Heights pump station upgrades
- Force Main replacement
- Sewer reroute to alleviate Univ. City Blvd. capacity

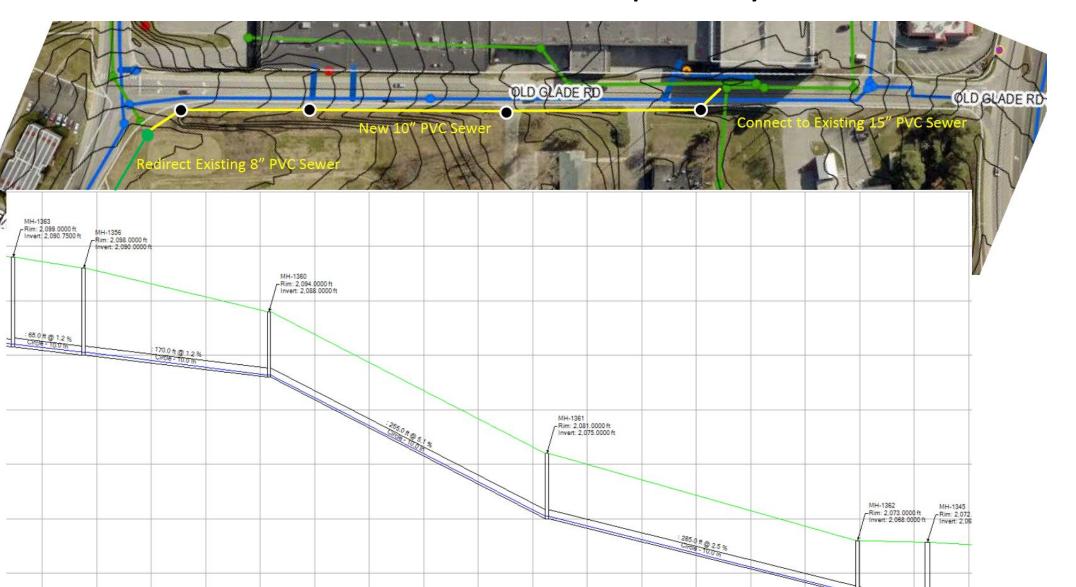
Downstream Sewer Capacity



- Karr Heights pump station upgrades
- Force Main replacement
- Sewer reroute to alleviate Univ. City Blvd. capacity



Downstream Sewer Capacity



Creek Valley Overlay

