

TREE# 534
31" BLACK CHERRY
IN VERY POOR
CONDITION.
DECAYING TRUNK;
CANOPY CUT OFF.
STRUCTURAL ROOT
ZONE WILL BE
SEVERELY IMPACTED
BY PROPOSED
SIDEWALK. TREE TO
BE REMOVED.

TREE# 535
41" RED MAPLE
IN FAIR CONDITION.
PROPOSED SIDEWALK
MAY IMPACT THE
STRUCTURAL ROOT
ZONE.

EX. UTILITY POLE TO
REMAIN. 4' WIDTH
SIDEWALK IS
PROPOSED AT THE
BACK OF THE
POLE.

TREE# 533
25" CHERRY
IN GOOD CONDITION.
CRITICAL ROOT ZONE
MAY BE AFFECTED
BY PROPOSED
SIDEWALK.

TREE# 531
23" RED MAPLE
IN GOOD CONDITION.
CRITICAL ROOT ZONE
MAY BE AFFECTED BY
PROPOSED SIDEWALK.

TREE# 528
14' HT LEATHERLEAF
VIBURNUM
IN GOOD CONDITION. IN
PATH OF PROPOSED
SIDEWALK. TREE TO BE
REMOVED.

TREE# 526
12' HT ARROWWOOD
VIBURNUM
IN GOOD CONDITION.
TREE IS MULTI-STEM. IN
PATH OF PROPOSED
SIDEWALK. TREE TO BE
REMOVED.

TREE# 524
6" CALLERY PEAR
IN FAIR CONDITION. TREE
IS MULTI-STEM.
STRUCTURAL ROOT ZONE
MAY BE AFFECTED BY
SIDEWALK GRADING.

TREE# 522
8" WILD CHERRY
IN FAIR CONDITION. IN
PATH OF PROPOSED
SIDEWALK. TREE TO
BE REMOVED.

TREE# 520
11" BLACK CHERRY
IN FAIR CONDITION. IN
PATH OF PROPOSED
SIDEWALK. TREE TO
BE REMOVED.

TREE# 517
11" EASTERN REDBUD
IN FAIR CONDITION. TREE
IS MULTI-STEM.
STRUCTURAL ROOT
ZONE WILL BE
SEVERELY IMPACTED BY
THE PROPOSED
SIDEWALK. TREE TO BE
REMOVED.

TREE# 515
20" BLACK CHERRY
IN FAIR CONDITION. TREE
HAS AN OVERLY TRIMMED
CANOPY. STRUCTURAL ROOT
ZONE WILL BE SEVERELY
IMPACTED BY THE
PROPOSED SIDEWALK. TREE
TO BE REMOVED.

TREE# 532
10" CHERRY
IN VERY POOR
CONDITION. TREE IS NEARLY
DEAD. IN PATH OF
PROPOSED SIDEWALK. TREE
TO BE REMOVED.

TREE# 530
4' SMOOTH WITHEROD
VIBURNUM
IN FAIR CONDITION. TREE IS
MULTI-STEM. ONE-SIDED.
IN PATH OF PROPOSED
SIDEWALK. TREE TO BE
REMOVED.

TREE# 529
23" CRAPE MYRTLE
IN GOOD CONDITION. TREE
IS MULTI-STEM. IN PATH
OF PROPOSED SIDEWALK.
TREE TO BE REMOVED.

TREE# 527
7" AMERICAN HOLLY
IN GOOD CONDITION.
IN PATH OF
PROPOSED SIDEWALK.
TREE TO BE REMOVED.

TREE# 525
11" SMOKETREE
IN FAIR CONDITION. TREE
IS MULTI-STEM. IN
PATH OF PROPOSED
SIDEWALK. TREE TO BE
REMOVED.

EX. UTILITY POLE TO
REMAIN. 4' WIDTH
SIDEWALK IS PROPOSED
AT THE BACK OF THE
POLE.

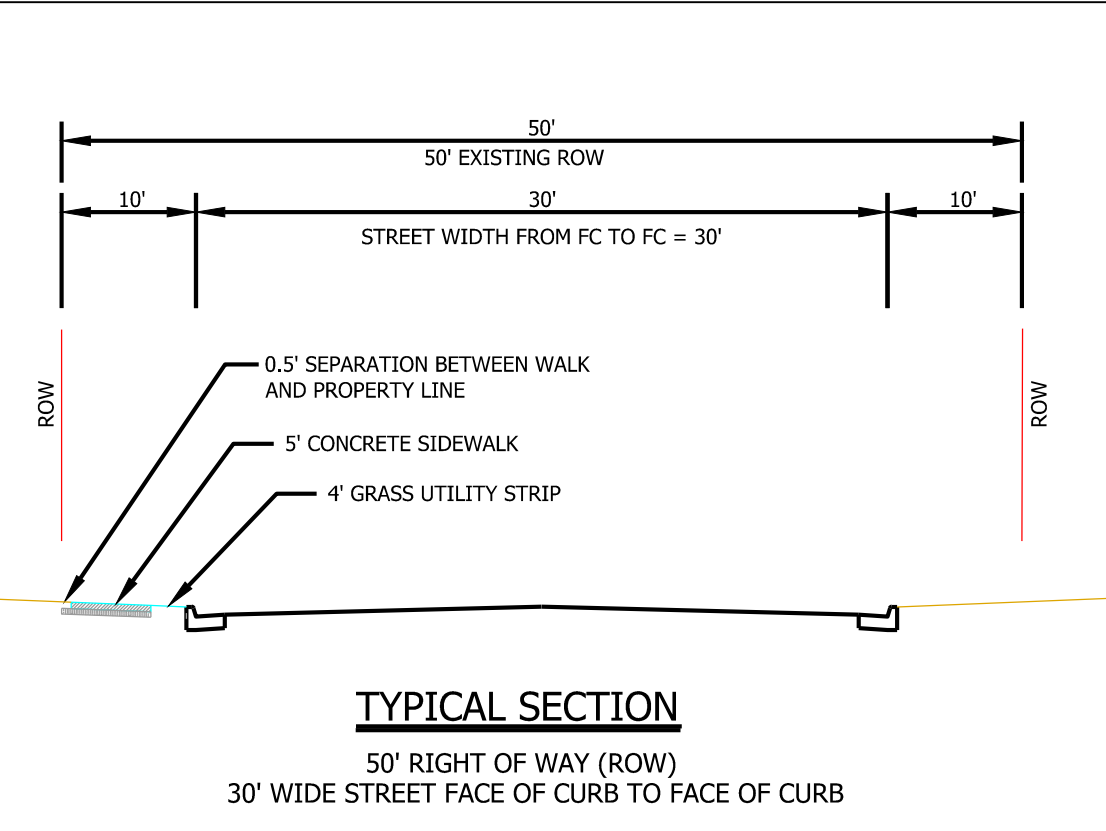
TREE# 523
35" BLACK LOCUST
IN FAIR CONDITION. TREE
IS MULTI-STEM. IN PATH
OF PROPOSED SIDEWALK.
TREE TO BE REMOVED.

TREE# 521
9" EMPRESS TREE
IN FAIR CONDITION. TREE
IS MULTI-STEM. IN
PATH OF PROPOSED
SIDEWALK. TREE TO BE
REMOVED.

TREE# 518A & 519
5" AMERICAN HOLLY
IN GOOD CONDITION. IN
PATH OF PROPOSED
SIDEWALK. TREES TO BE
REMOVED.

TREE# 518
25" BLACK CHERRY
IN FAIR CONDITION. TREE
HAS A CROOKED TRUNK.
IN PATH OF PROPOSED
SIDEWALK. TREE TO BE
REMOVED.

TREE# 516
2" CHINA BOY HOLLY
IN GOOD CONDITION.
STRUCTURAL ROOT ZONE
WILL BE AFFECTED BY
GRADING. TREE TO BE
REMOVED.

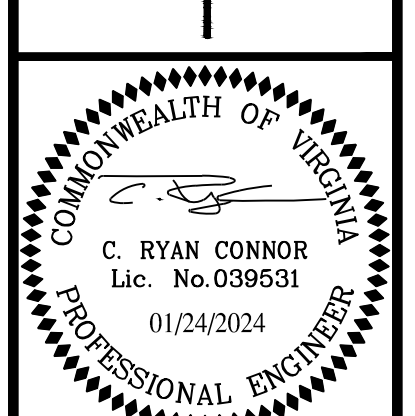
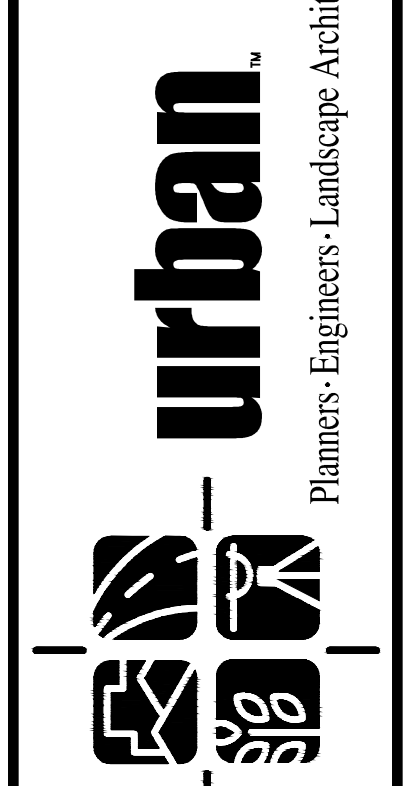


CONCEPT 1
SIDEWALK ALONG NORTH SIDE OF RIDGE ROAD
NW. THE SIDEWALK WILL EXTEND FROM THE
FREDERICK ST SW INTERSECTION TO THE
HILLCREST DR SW INTERSECTION.

NO.	DATE	DESCRIPTION	REVIEWED	DATE

PLAN DATE
11/22/2023
01/24/2024

Urban Ltd.
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Arlington, Virginia 22003
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CONCEPT 1
RIDGE ROAD SW
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA
C.I. N/A
DATE: NOVEMBER, 2023
SCALE: 1"=30'
SHEET
1
OF
4
FILE No.
RP-2593

TREE# 501
2" YOSHINA CHERRY
IN GOOD CONDITION. NO
IMPACTS LIKELY.



TREE# 503
5" YOSHINA CHERRY
IN EXCELLENT CONDITION.
IN PATH OF PROPOSED
SIDEWALK. TREE TO BE
REMOVED.



TREE# 505
4" LITTLELEAF LINDEN
IN GOOD CONDITION. NO
IMPACTS LIKELY.



TREE# 507
44" SUGAR MAPLE
IN GOOD CONDITION.
CO-DOMINANT TRUNK.
PROPOSED SIDEWALK MAY
IMPACT THE CRITICAL ROOT
ZONE.



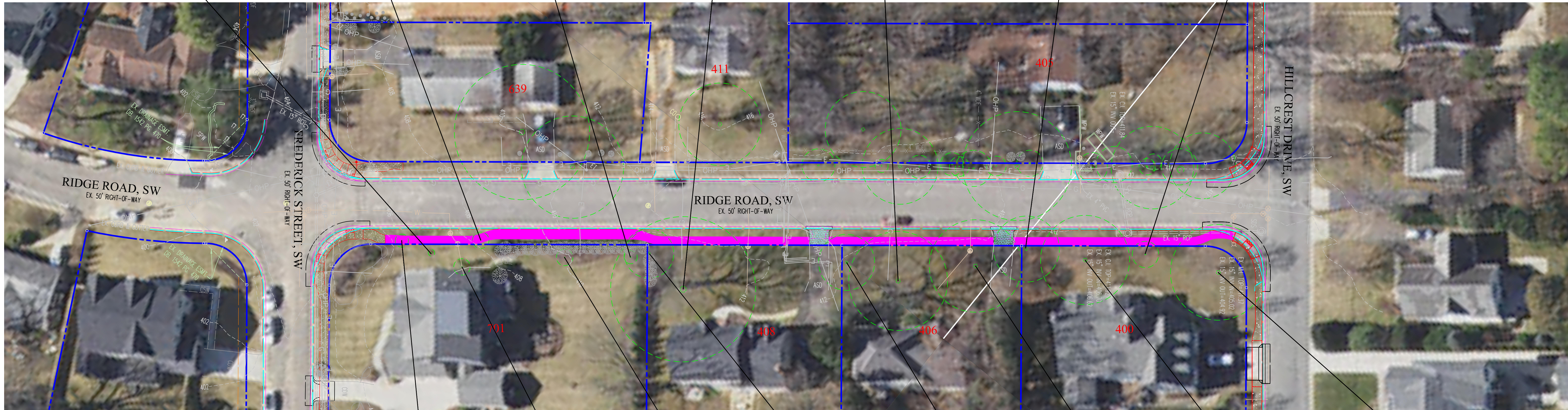
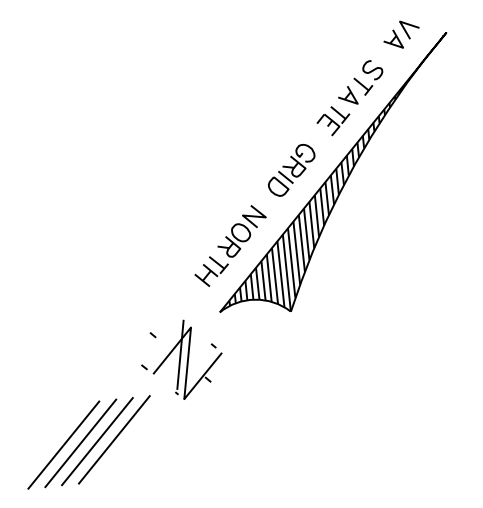
TREE# 509
30" BLACK WALNUT
IN GOOD CONDITION.
PROPOSED SIDEWALK MAY
IMPACT THE CRITICAL ROOT
ZONE.



TREE# 511
20" KOUSA DOGWOOD
IN GOOD CONDITION. TREE IS
MULTI-STEM. STRUCTURAL
ROOT ZONE WILL BE
SEVERELY IMPACTED BY
PROPOSED SIDEWALK. TREE
TO BE REMOVED.



TREE# 513
8" RED MAPLE
IN GOOD CONDITION.
PROPOSED SIDEWALK MAY
IMPACT THE CRITICAL
ROOT ZONE.



TREE# 500
4" YOSHINA CHERRY
IN EXCELLENT CONDITION.
IN PATH OF PROPOSED
SIDEWALK. TREE TO BE
REMOVED.



TREE# 502
5" SOUTHERN MAGNOLIA
IN GOOD CONDITION. NO
IMPACTS LIKELY.



TREE# 504
5" SILVER MAPLE
IN GOOD CONDITION.
NO IMPACTS LIKELY.



TREE# 506
15" CRAPE MYRTLE
IN EXCELLENT CONDITION. TREE
IS MULTI-STEM. PROPOSED
SIDEWALK MAY IMPACT THE
STRUCTURAL ROOT ZONE.



TREE# 508
17" KOUSA DOGWOOD
IN EXCELLENT
CONDITION. TREE IS
MULTI-STEM. PROPOSED
SIDEWALK MAY IMPACT THE
CRITICAL ROOT ZONE.



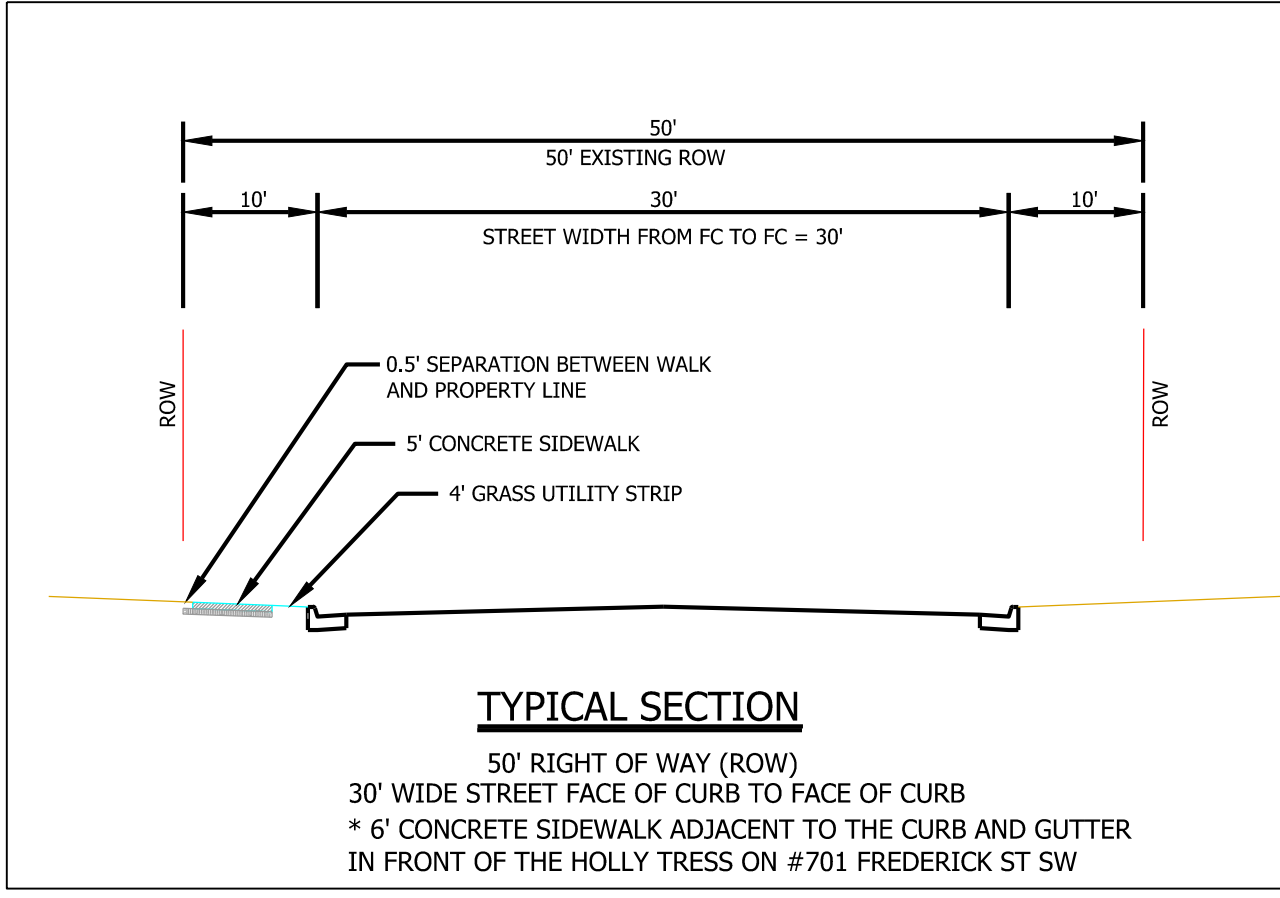
TREE# 510
28" JAPANESE MAPLE
IN EXCELLENT
CONDITION. TREE IS
MULTI-STEM. PROPOSED
SIDEWALK MAY IMPACT
THE STRUCTURAL
ROOT ZONE.



TREE# 512
29" RIVER BIRCH
IN EXCELLENT CONDITION.
TREE IS MULTI-STEM.
PROPOSED SIDEWALK MAY
IMPACT THE STRUCTURAL
ROOT ZONE.



TREE# 514
29" RIVER BIRCH
IN GOOD CONDITION. TREE IS
MULTI-STEM. PROPOSED
SIDEWALK MAY IMPACT THE
CRITICAL ROOT ZONE.

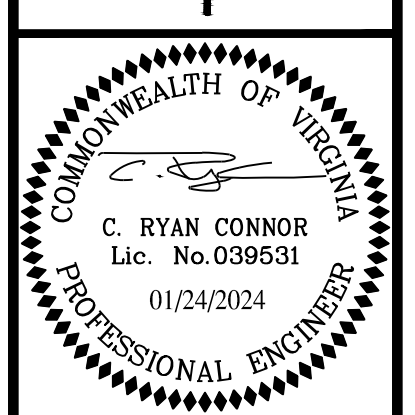
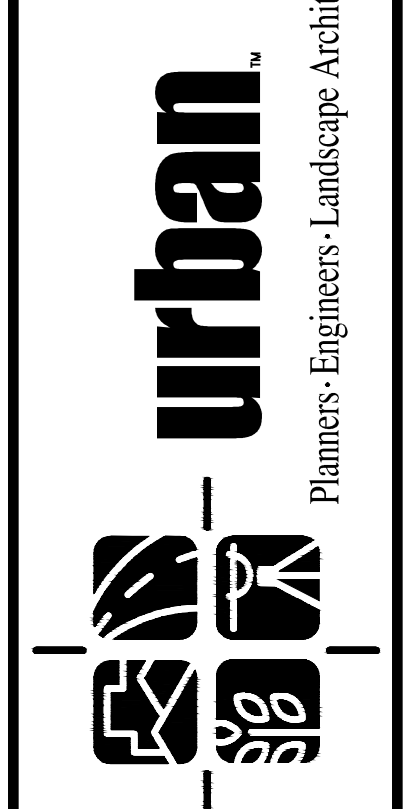


CONCEPT 2
SIDEWALK ALONG SOUTH SIDE OF RIDGE ROAD NW. THE
SIDEWALK WILL EXTEND FROM THE FREDERICK ST SW
INTERSECTION TO THE HILLCREST DR SW
INTERSECTION.

No.	DATE	DESCRIPTION	REVIEW APPROVED	DATE

PLAN DATE	11/22/2023 01/24/2024
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CONCEPT 2
RIDGE ROAD SW
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA
DATE: NOVEMBER, 2023
SCALE: 1"=30'
SHEET
2
OF
4
FILE No.
RP-2593

ANALYSIS OF CONCEPT 1 NORTH SIDE - RIDGE ROAD SW

ANALYSIS OF CONCEPT 2 SOUTH SIDE - RIDGE ROAD SW

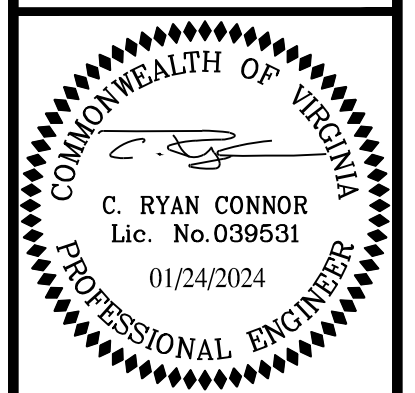
<p>DESCRIPTION</p>	<p>THIS CONCEPT PROPOSES SIDEWALK ALONG NORTH SIDE OF RIDGE ROAD SW. THE SIDEWALK WILL EXTEND THE EXISTING NORTH SIDE SIDEWALK ACROSS FREDERICK ST INTERSECTION AND CONTINUE TO THE HILLCREST DR SW INTERSECTION. PROPOSED SIDEWALK WILL CONNECT WITH THE EX. SIDEWALK ALONG HILLCREST DRIVE.</p>	<p>THIS CONCEPT PROPOSES SIDEWALK ALONG SOUTH SIDE OF RIDGE ROAD SW. THE SIDEWALK WILL EXTEND FROM THE FREDERICK ST SW INTERSECTION TO THE HILLCREST DR SW INTERSECTION. PROPOSED SIDEWALK WILL CONNECT WITH THE EX. SIDEWALK ALONG HILLCREST DRIVE AT THE INTERSECTION WITH RIDGE ROAD SW.</p>
<p>TREE IMPACT</p>	<p>TREES ALONG THIS SIDE OF RIDGE ROAD SW VARY IN SIZE AND AGE ACROSS A RANGE FROM NEWLY PLANTED TREES TO ESTABLISHED, MATURE CANOPY TREES. THERE ARE CONSIDERABLE TREE IMPACTS ON THE EASTERN PORTION OF THIS SEGMENT. PUSHING THE SIDEWALK AGAINST THE CURB HERE WILL NOT HELP APPRECIABLY, THEREFORE THE PROPOSAL IS TO KEEP THE SIDEWALK AT TYPICAL SECTION. SEVERAL OF THESE TREES MAY BE CANDIDATES FOR TRANSPLANTATION. ADDITIONAL TREES MAY BE AFFECTED DEPENDING ON THE EXTENT OF GRADING FOR THE WALK TO THE CRITICAL ROOT ZONES OF THE TREES.</p>	<p>TREES ALONG THIS SIDE OF RIDGE ROAD SW VARY IN SIZE AND AGE ACROSS A RANGE FROM NEWLY PLANTED TREES TO ESTABLISHED, MATURE CANOPY TREES. THERE ARE A FEW TREES AFFECTED BY THIS CONCEPT. ADDITIONAL TREES MAY BE AFFECTED DEPENDING ON THE EXTENT OF GRADING FOR THE WALK TO THE CRITICAL ROOT ZONES OF THE TREES.</p>
<p>IMPACTS ON VEGETATION (OTHER THAN TREES)</p>	<p>THERE ARE MINIMAL IMPACTS TO OTHER VEGETATION IN A FEW AREAS BY THIS CONSTRUCTION. THIS ANALYSIS IS FOCUSED MORE ON THE POTENTIAL CONSTRUCTION IMPACTS TO LARGER TREES. IF THIS CONCEPT IS PURSUED, HOMEOWNERS MAY WISH TO CONSIDER TRANSPLANTING PLANTS/SHRUBS OUT OF THE PATH OF THE SIDEWALK CONSTRUCTION TO AREAS ON THEIR LOTS.</p>	<p>THERE ARE MINIMAL IMPACTS TO OTHER VEGETATION IN A FEW AREAS BY THIS CONSTRUCTION. THIS ANALYSIS IS FOCUSED MORE ON THE POTENTIAL CONSTRUCTION IMPACTS TO LARGER TREES. IF THIS CONCEPT IS PURSUED, HOMEOWNERS MAY WISH TO CONSIDER TRANSPLANTING PLANTS/SHRUBS OUT OF THE PATH OF THE SIDEWALK CONSTRUCTION TO AREAS ON THEIR LOTS.</p>
<p>GRADING IMPACTS</p>	<p>THE EASTERN PORTION OF THIS SEGMENT IS STEEP SLOPE UP TO EXISTING TREES. THE SIDEWALK IN EITHER TYPICAL SECTION OR AGAINST THE CURB WOULD SIGNIFICANTLY IMPACT THE EXISTING TREES, THEREFORE MANY ARE PROPOSED TO BE REMOVED. THE GRADING IMPACT ON THIS CONCEPT IS LARGER THAN CONCEPT 2. THE CONSTRUCTION LIMITS WILL BE DETERMINED DURING LATER STAGES OF DESIGN IF THIS CONCEPT IS PURSUED.</p>	<p>THE AREA WHERE SIDEWALK WOULD BE BUILT IS FLATTER COMPARED TO CONCEPT 1. THE GRADING IMPACT APPEARS TO BE MINIMAL. THE CONSTRUCTION LIMITS WILL BE DETERMINED DURING LATER STAGES OF DESIGN IF THIS CONCEPT IS PURSUED.</p>
<p>CONSTRUCTABILITY ISSUE</p>	<p>CONCEPT 1 HAS FOUR POLES ALONG IT'S SEGMENT THAT WILL IMPACT THE TYPICAL SECTION AT THOSE LOCATIONS.</p>	<p>THERE ARE NO OBSERVED CONSTRUCTABILITY ISSUES ON CONCEPT 2.</p>
<p>COST</p>	<p>THE COST OF THIS CONCEPT IS COMPARABLE TO OTHER ROBINSON SIDEWALK PROJECTS. BOTH THE CONCEPTS WILL HAVE SIMILAR COSTS COMPARED TO EACH OTHER. CONCEPT 1 WOULD COST MORE THAN CONCEPT 2 BECAUSE OF MORE DRIVEWAY APRONS.</p>	<p>THE COST OF THIS CONCEPT IS COMPARABLE TO OTHER ROBINSON SIDEWALK PROJECTS .BOTH THE CONCEPTS WILL HAVE SIMILAR COSTS COMPARED TO EACH OTHER.</p>
<p>CONNECTIVITY</p>	<p>BOTH THE SIDEWALK CONCEPTS HAVE SIMILAR CONNECTIVITY.</p>	<p>BOTH THE SIDEWALK CONCEPTS HAVE SIMILAR CONNECTIVITY.</p>
<p>RECOMMENDATION</p>	<p>CONCEPT 2 IS RECOMMENDED BECAUSE IT HAS LIMITED TREE LOSS, SIMILAR CONNECTIVITY AND LESS UTILITY POLES.</p>	

No.	DATE	DESCRIPTION	REVISIONS

PLAN DATE
11/27/2023
01/24/2024

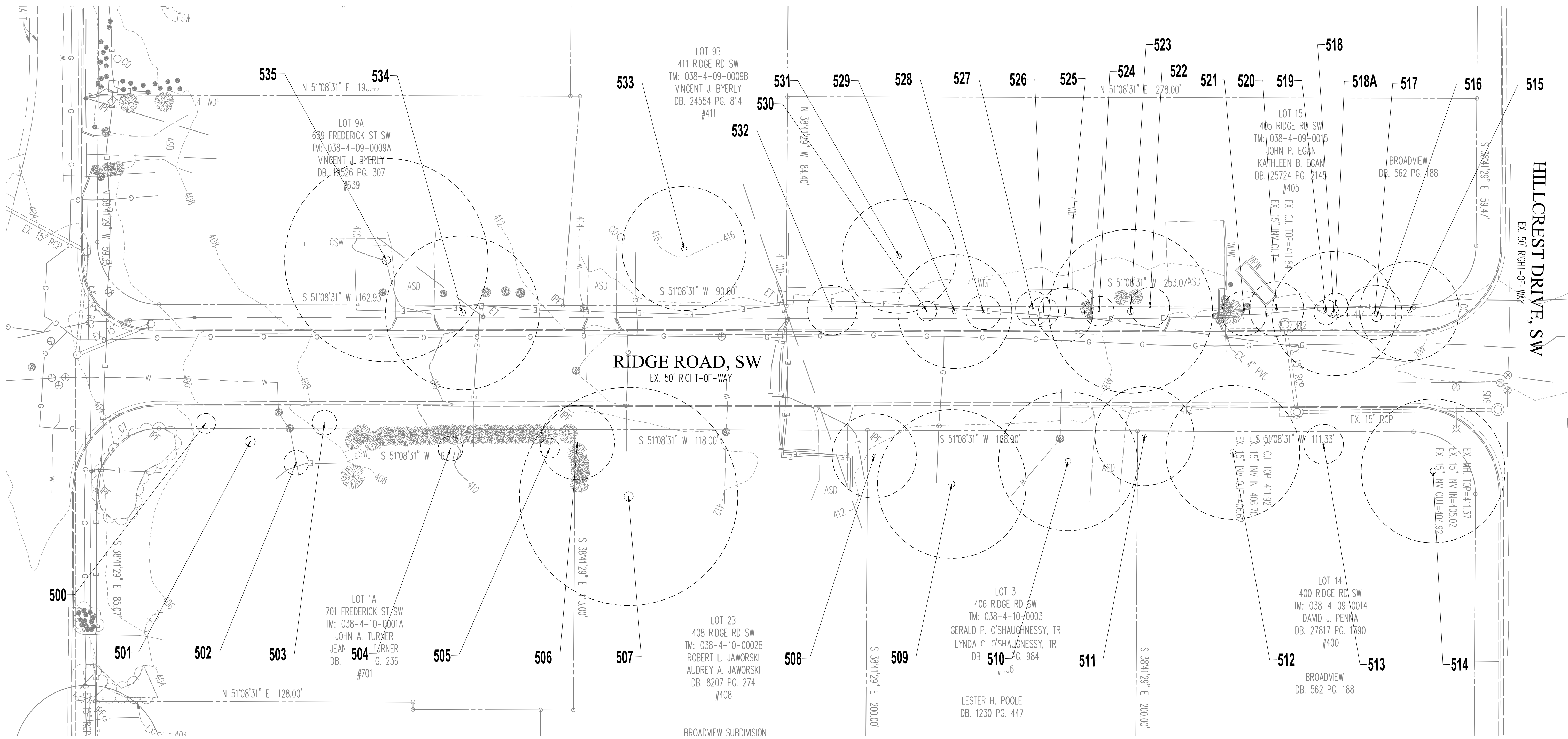
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ANALYSIS OF CONCEPT 1 AND CONCEPT 2
RIDGE ROAD SW
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA

SCALE: N/A
C.I. N/A
DATE: NOVEMBER, 2023



TREE INVENTORY & CONDITION ANALYSIS

TREE NO.	SPECIES		SIZE	CRZ	CONDITION RATING	COMMENTS
	Botanical Name	Common Name				
500	<i>Prunus x yedoensis</i>	Yoshino Cherry	4"	4'	87.50	
501	<i>Prunus x yedoensis</i>	Yoshino Cherry	2"	2'	65.63	
502	<i>Magnolia grandiflora</i>	Southern Magnolia	5"	5'	78.13	
503	<i>Prunus x yedoensis</i>	Yoshino Cherry	5"	5'	81.25	
504	<i>Acer saccharinum</i>	Silver Maple	5"	5'	65.63	
505	<i>Tilia cordata</i>	Littleleaf Linden	4"	4'	71.88	
506	<i>Lagerstroemia indica</i>	Crape Myrtle	15"	15'	84.38	Multi-stem
507	<i>Acer saccharum</i>	Sugar Maple	44"	44'	68.75	Co-dominant trunk
508	<i>Cornus kousa</i>	Kousa Dogwood	17"	17'	81.25	Multi-stem
509	<i>Juglans nigra</i>	Black Walnut	30"	30'	68.75	
510	<i>Acer palmatum</i>	Japanese Maple	28"	28'	87.50	Multi-stem
511	<i>Cornus kousa</i>	Kousa Dogwood	20"	20'	71.88	Multi-stem
512	<i>Betula nigra</i>	River Birch	27"	27'	84.38	Multi-stem
513	<i>Acer rubrum</i>	Red Maple	8"	8'	71.88	
514	<i>Betula nigra</i>	River Birch	29"	29'	75.00	Multi-stem
515	<i>Prunus serotina</i>	Black Cherry	20"	20'	56.25	Overly trimmed canopy
516	<i>Ilex x meserveae</i>	China Boy Holly	2"	2'	68.75	
517	<i>Cercis canadensis</i>	Eastern Redbud	11"	11'	56.25	Multi-stem
518	<i>Prunus serotina</i>	Black Cherry	25"	25'	59.38	Crooked trunk

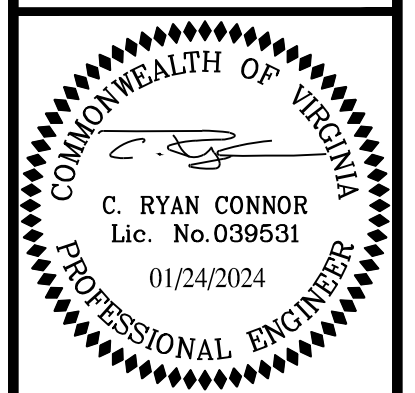
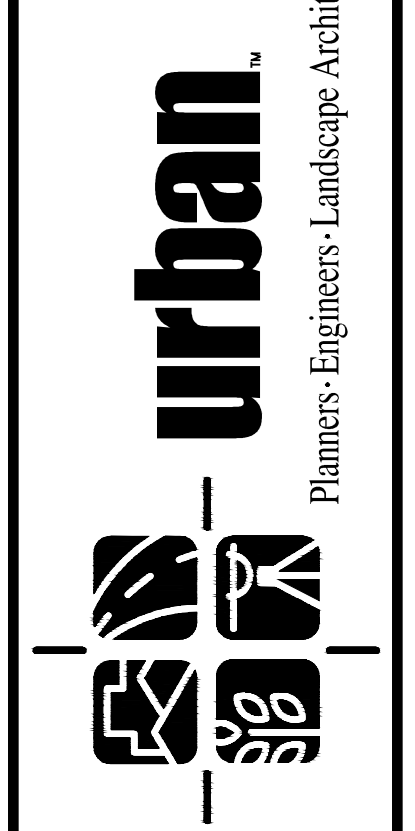
TREE INVENTORY & CONDITION ANALYSIS

TREE NO.	SPECIES		SIZE	CRZ	CONDITION RATING	COMMENTS
	Botanical Name	Common Name				
518A	<i>Ilex opaca</i>	American Holly	5"	5'	62.50	
519	<i>Ilex opaca</i>	American Holly	5"	5'	65.63	
520	<i>Prunus serotina</i>	Black Cherry	11"	11'	56.25	
521	<i>Paulownia tomentosa</i>	Empress Tree	9"	9'	56.25	Multi-stem
522	<i>Prunus avium</i>	Wild Cherry	8"	8'	40.63	
523	<i>Robinia pseudoacacia</i>	Black Locust	33"	33'	46.88	Multi-stem
524	<i>Pyrus calleryana</i>	Callery Pear	6"	6'	50.00	Multi-stem
525	<i>Cotinus coggygria</i>	Smoketree	11"	11'	46.88	Multi-stem
526	<i>Viburnum dentatum</i>	Aronwood Viburnum	12" Ht.	6'	68.75	Multi-stem
527	<i>Ilex opaca</i>	American Holly	7"	7'	75.00	
528	<i>Viburnum rhytidophyllum</i>	Leatherleaf Viburnum	14" Ht.	7'	68.75	
529	<i>Lagerstroemia indica</i>	Crape Myrtle	2"	2'	71.88	
530	<i>Viburnum nudum</i>	Smooth Withered Viburnum	8" Ht.	4'	56.25	Multi-stem; one-sided
531	<i>Acer rubrum</i>	Red Maple	23"	23'	65.63	
532	<i>Prunus spp.</i>	Cherry	10"	10'	12.50	Nearly dead
533	<i>Prunus spp.</i>	Cherry	25"	25'	78.13	
534	<i>Prunus serotina</i>	Black Cherry	31"	31'	9.38	Decaying trunk; canopy cut off
535	<i>Acer rubrum</i>	Red Maple	41"	41'	56.25	

NO.	DATE	DESCRIPTION	REVIEWED	DATE

PLAN DATE
11/22/23
01/24/2024

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TREE INVENTORY AND CONDITION ANALYSIS
RIDGE ROAD SW
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA
C.I. 2'
DATE: NOVEMBER, 2023
SCALE: 1" = 20'

SHEET
4
OF
4
FILE No.
RP-2593