



TREE#647
6" NORWAY SPRUCE
IN EXCELLENT CONDITION.



CLUSTER OF PFIZER
JUNIPER SHRUBS (7' HT.
MAX). REMOVE PORTION IN
ROW.



TREE#645
5' HT EASTERN RED CEDAR
IN FAIR CONDITION.
TRAINED/TRIMMED TO SHRUB
SIZE. TO BE REMOVED.



TREE#643
32" SOUTHERN MAGNOLIA
IN FAIR CONDITION.
BRANCH DECAY; TWISTED
TRUNK. PROPOSED
SIDEWALK MAY IMPACT THE
CRITICAL ROOT ZONE.



TREE#642
40" CHERRY
IN VERY POOR CONDITION.
MAJOR DECAY; NEARLY
DEAD. TO BE REMOVED.



TREE#641
1" RED MAPLE
IN FAIR CONDITION. TRUNK
DAMAGE.



TREE#639
48" CRAPE MYRTLE
IN GOOD CONDITION.
MULTISTEM. PROPOSED
SIDEWALK WILL IMPACT THE
CRITICAL ROOT ZONE, BUT
LIKELY NOT ITS
STRUCTURAL ROOT ZONE.



TREE#638
5" JAPANESE MAPLE
IN GOOD CONDITION.



MIX OF VARIOUS VOLUNTARY SPECIES
(LESS THAN 1" DIAMETER; 8'-20' TALL):
- WILD CHERRY
- MULBERRY
- EUONYMUS- SOME NATIVE SPECIES
PORTION IN ROW TO BE REMOVED.



TREE#646
6" FLOWERING DOGWOOD
IN FAIR CONDITION.



UTILITY POLE AND GUY
WIRE IN THE PATH OF
PROPOSED SIDEWALK;
NEED TO BE RELOCATED.



TREE#644
29" SWEETBAY MAGNOLIA
IN FAIR CONDITION.
TRUNK AND BRANCH
DECAY. PROPOSED
SIDEWALK MAY IMPACT THE
CRITICAL ROOT ZONE.



UTILITY POLE TO REMAIN.
PROPOSE SIDEWALK AT
THE FRONT OF THE POLE.
ADJUST SIDEWALK WIDTH
AS NEEDED.



TREE#640
1" RED MAPLE
IN GOOD CONDITION.



UTILITY POLES IN THE
PATH OF PROPOSED
SIDEWALK; NEED TO BE
RELOCATED.



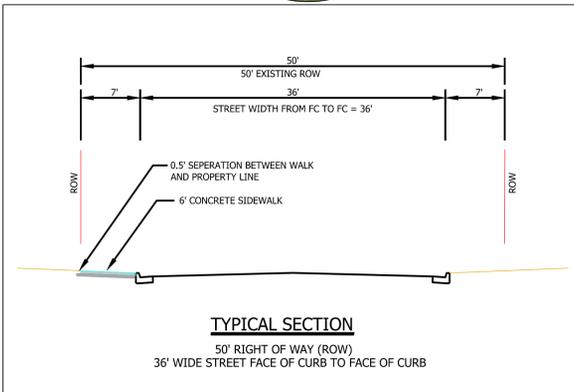
TREE#637
39" RED MAPLE
IN FAIR CONDITION.
CODOMINANT TRUNK;
RAISED PLANTING BASE
SUGGESTS FORMERLY
WITHIN A PLANTING BED.
PROPOSED SIDEWALK
MAY IMPACT THE
STRUCTURAL ROOT
ZONE.



TREE#636
10" CHERRY
IN FAIR CONDITION. TO
BE REMOVED.



TREE#635
4" CHERRY
IN POOR CONDITION.
DECAY THROUGHOUT. TO
BE REMOVED.



CONCEPT 1

SIDEWALK ALONG NORTH SIDE OF ST
BERNARD DR NE. THE SIDEWALK WILL EXTEND
FROM THE MAPLE AVE E INTERSECTION TO
THE WESTBRIAR DR NE INTERSECTION.

Attachment 5

NO.	DATE	DESCRIPTION	REVISIONS

PLAN DATE	12/13/2023 01/26/2024
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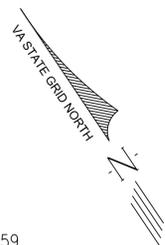
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CONCEPT 1
ST. BERNARD DRIVE NE
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA
SCALE: 1"=30'
DATE: DECEMBER, 2023

SHEET	1
OF	4

FILE No.
PP-2593



TREE#648
26" KWANZAN CHERRY
IN POOR CONDITION. IVY;
DECAY; OVER-PRUNED;
MULTISTEM. TO BE
REMOVED.



TREE#649
42" KWANZAN CHERRY
IN FAIR CONDITION.
DECAY THROUGHOUT;
MULTISTEM. TO BE
REMOVED.



TREE#652
2" CHERRY
IN GOOD CONDITION.
POSSIBLE TRANSPLANT.



TREE#654
9" CHERRY
IN FAIR CONDITION.
TO BE REMOVED.



TREE#656
5" CRAPE MYRTLE
IN EXCELLENT CONDITION.
MULTISTEM.



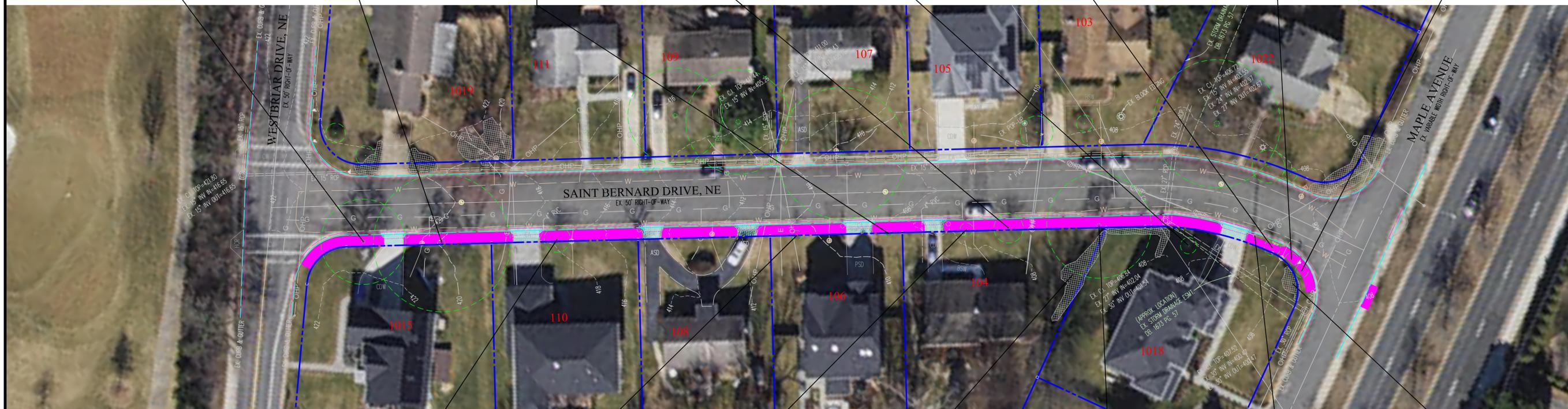
TREE#657
3" YOSHINO CHERRY
IN EXCELLENT CONDITION.
TO BE REMOVED.



TREE#658
4" WILLOW OAK
IN GOOD CONDITION.
TO BE REMOVED.



TREE#659
4" WILLOW OAK
IN EXCELLENT CONDITION.
TO BE REMOVED.



TREE#650
8" KWANZAN CHERRY
IN FAIR CONDITION.
TO BE REMOVED.



TREE#651
3" CHERRY
IN GOOD CONDITION.
POSSIBLE TRANSPLANT.



TREE#653
4" CHERRY
IN FAIR CONDITION.
DECAY; TO BE
REMOVED.



HEDGEROW OF CHERRY
LAUREL (10' TALL)



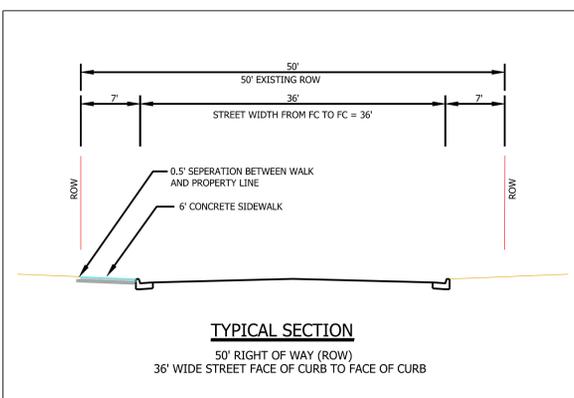
TREE#655
32" CHERRY
IN POOR CONDITION.
MULTISTEM; DECAY.
TO BE REMOVED.



EXISTING UTILITY POLE TO
REMAIN.



VARIOUS SHRUBS:
HOLLY, HYDRANGEA,
ROSE

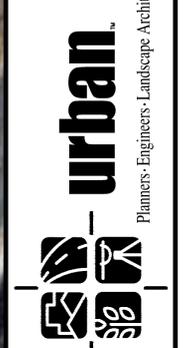


CONCEPT 2
SIDEWALK ALONG SOUTH SIDE OF ST BERNARD DR NE. THE SIDEWALK WILL EXTEND FROM THE MAPLE AVE E INTERSECTION TO THE WESTBRIAR DR NE INTERSECTION.

NO.	DATE	DESCRIPTION	REVIEWED	DATE

PLAN DATE	12/13/2023 01/26/2024
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CONCEPT 2
ST. BERNARD DRIVE NE
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA
DATE: DECEMBER, 2023
SCALE: 1"=30'

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FILE No.	PP-2593

ANALYSIS OF CONCEPT 1 NORTH- ST BERNARD DR NE

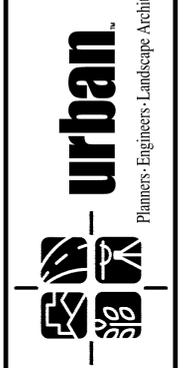
ANALYSIS OF CONCEPT 2 SOUTH- ST BERNARD DR NE

<p>DESCRIPTION</p>	<p>THIS CONCEPT PROPOSES SIDEWALK ALONG NORTH SIDE OF ST BERNARD DR NE. THE SIDEWALK WILL EXTEND FROM THE MAPLE AVE E INTERSECTION TO THE INTERSECTION WITH WESTBRIAR DR NE. THE CONCEPT INCLUDES ADA RAMPS AT EACH INTERSECTION.</p>	<p>THIS CONCEPT PROPOSES SIDEWALK ALONG SOUTH SIDE OF ST BERNARD DR NE. THE SIDEWALK WILL EXTEND FROM THE MAPLE AVE E INTERSECTION TO THE INTERSECTION WITH WESTBRIAR DR NE . THE CONCEPT INCLUDES ADA RAMPS AT EACH INTERSECTION.</p>
<p>TREE IMPACT</p>	<p>TREES ALONG THIS SIDE OF ST BERNARD DR NE 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—FOUR TREES WILL NEED TO BE REMOVED. SEVERAL OF THESE TREES MAY BE TRANSPLANTED. 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 ST BERNARD DR NE VARY IN SIZE AND AGE ACROSS A RANGE FROM NEWLY PLANTED TREES TO ESTABLISHED, MATURE CANOPY TREES. THERE ARE A GOOD NUMBER OF TREES AFFECTED BY THIS CONCEPT—NINE TREES WILL NEED TO BE REMOVED. HOWEVER, THEY GENERALLY ARE SMALLER AND YOUNGER THAN CONCEPT 1, SEVERAL OF WHICH MAY BE TRANSPLANTED. 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 SOME 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 SOME 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 AREA BETWEEN MAPLE AVE E AND WESTBRIAR DR NE WHERE SIDEWALK WOULD BE BUILT IS SLIGHTLY STEEPER COMPARED TO CONCEPT 2. THE GRADING IMPACT ON THIS CONCEPT WILL BE MORE COMPARED TO 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 SLIGHTLY 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>THIS CONCEPT HAS 4 UTILITY POLES WITHIN THE RIGHT-OF-WAY (R/W). AT 2 LOCATIONS THE RESULTING SIDEWALK WIDTH IS LESS THAN THE ADA RECOMMENDED WIDTH OF 4'.</p>	<p>THERE ARE NO SIGNIFICANT CONSTRUCTABILITY ISSUES ON CONCEPT 2. THIS CONCEPT HAS ONE UTILITY POLE. THE SIDEWALK WIDTH COULD BE REDUCED TO MINIMUM FOUR FEET TO PROVIDE CLEARANCE.</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.</p>	<p>THE COST OF THIS CONCEPT IS COMPARABLE TO OTHER SIDEWALK PROJECTS. BOTH THE CONCEPTS WILL HAVE SIMILAR COSTS.</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 1 HAS CONSTRUCTABILITY ISSUES BECAUSE OF THE UTILITY POLES THAT RESULT IN A SIDEWALK WIDTH THAT IS LESS THAN THE ADA RECOMMENDED WIDTH OF 4'; THEREFORE, CONCEPT 2 IS RECOMMENDED.</p>	

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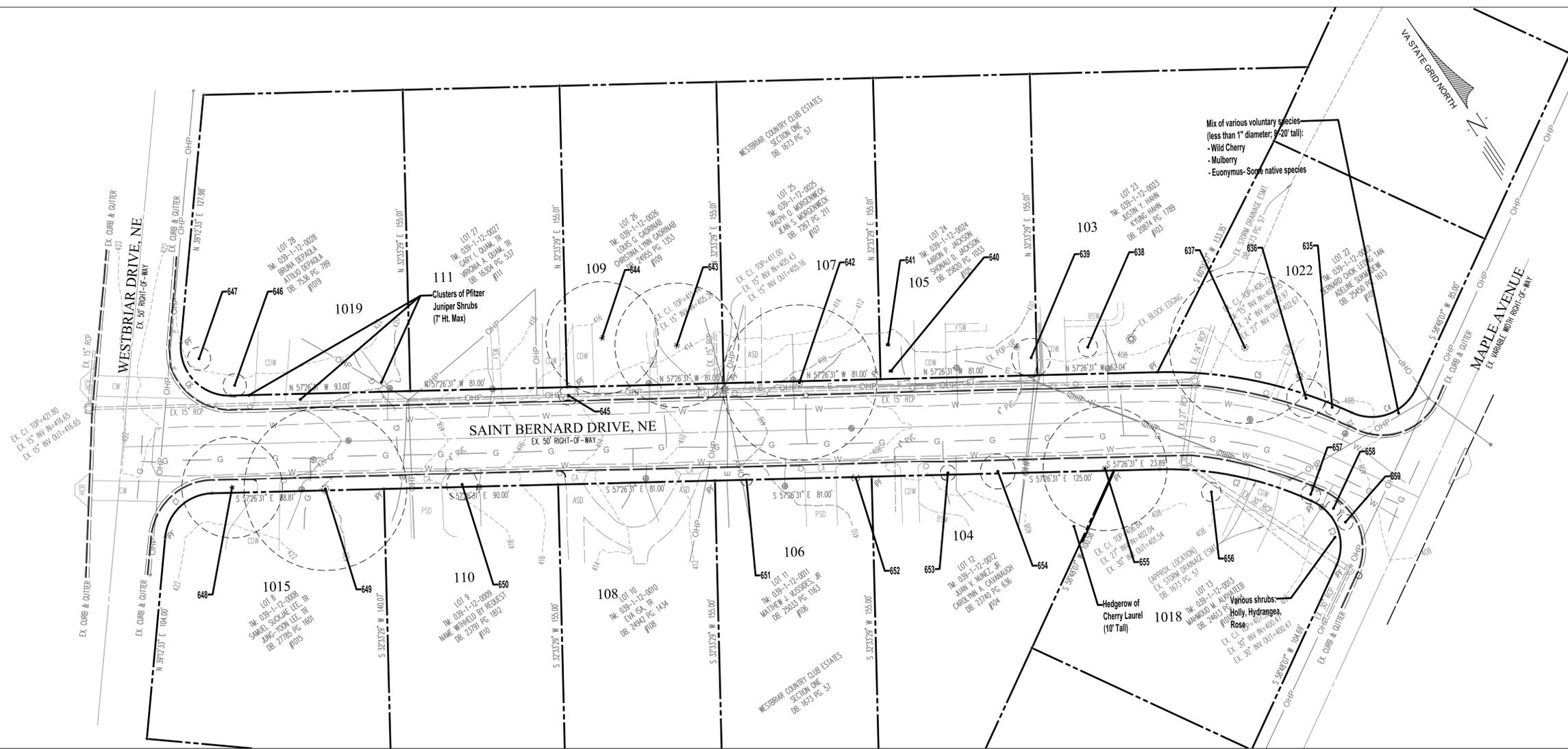
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ANALYSIS OF CONCEPT 1 AND CONCEPT 2
ST. BERNARD DRIVE NE
CONCEPT STUDY
TOWN OF VIENNA
FAIRFAX COUNTY, VIRGINIA
SCALE: N/A
C.I. N/A
DATE: DECEMBER, 2023

SHEET
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OF
4
FILE No.
PP-2593



TREE INVENTORY & CONDITION ANALYSIS					
TREE NO.	SPECIES	SIZE	GRZ	CONDITION RATING	COMMENTS
	Common Name	DBH (in)	R (ft.)	%	
635	Cherry	4"	4'	37.50	Decay throughout
636	Cherry	10"	10'	53.13	
637	Red Maple	39"	39'	59.38	Codominant trunk; raised planting base suggests formerly within a planting bed.
638	Japanese Maple	5"	5'	65.63	
639	Crape Myrtle	48"	10'	75.00	Multistem
640	Red Maple	1"	1'	65.63	
641	Red Maple	1"	1'	43.75	Trunk damage
642	Cherry	40"	40'	12.50	Major decay; nearly dead
643	Southern Magnolia	32"	32'	46.88	Branch decay; twisted trunk
644	Sweetbay Magnolia	29"	29'	43.75	Trunk and branch decay
645	Eastern Red Cedar	5' Ht.	5' Width	46.88	Trained / trimmed to shrub size
646	Flowering Dogwood	6"	6'	50.00	
647	Norway Spruce	6"	6'	90.63	
648	Kwanzan Cherry	26"	26'	37.50	lv; decay; over-pruned; multistem
649	Kwanzan Cherry	42"	42'	43.75	Decay throughout; multistem
650	Kwanzan Cherry	8"	8'	53.13	
651	Cherry	3"	3'	78.13	
652	Cherry	2"	2'	62.50	
653	Cherry	4"	4'	46.88	Decay
654	Cherry	9"	9'	59.38	
655	Cherry	32"	32'	37.50	Multistem; decay
656	Crape Myrtle	5"	5'	84.38	Multistem
657	Yoshina Cherry	3"	3'	84.38	
658	Willow Oak	4"	4'	68.75	
659	Willow Oak	4"	4'	81.25	

TREE INVENTORY AND CONDITION ANALYSIS
ST. BERNARD DRIVE NE
 CONCEPT STUDY
 TOWN OF VIENNA
 FAIRFAX COUNTY, VIRGINIA

DATE: DECEMBER, 2023
 SCALE: 1" = 30'

SHEET
 4
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