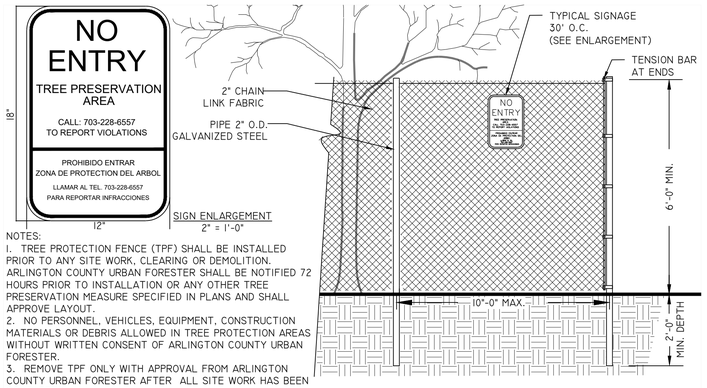


ELEVATION

NOTES:

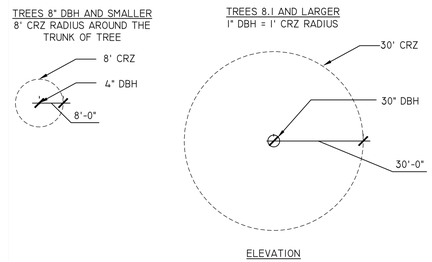
1. TREE PROTECTION FENCE (TPF) SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO INSTALLATION OR ANY OTHER TREE PRESERVATION MEASURE SPECIFIED IN PLANS AND SHALL APPROVE LAYOUT.
2. NO PERSONNEL, VEHICLES, EQUIPMENT, CONSTRUCTION MATERIALS OR DEBRIS ALLOWED IN TREE PROTECTION AREAS WITHOUT WRITTEN CONSENT OF ARLINGTON COUNTY URBAN FORESTER.
3. REMOVE TPF ONLY WITH APPROVAL FROM ARLINGTON COUNTY URBAN FORESTER AFTER ALL SITE WORK HAS BEEN COMPLETED.
4. SIGN MATERIAL TO BE WEATHER RESISTANT.

A L-02 6' CHAIN LINK TREE PROTECTION FENCE

1/2" = 1'-0"

311300.1 (2020)

ARLINGTON VIRGINIA



ELEVATION

NOTES:

1. GRAPHICALLY, THE CRITICAL ROOT ZONE (CRZ) IS REPRESENTED AS A CIRCULAR REGION MEASURED OUTWARD FROM A TREE TRUNK REPRESENTING THE AREA OF ROOTS THAT MUST BE MAINTAINED OR PROTECTED FOR THE TREE'S SURVIVAL.

2. THE CRZ OF A TREE IS THE ZONE IN WHICH THE MAJORITY OF THE ROOTS LAY. 95% OF THE ROOTS OF MOST TREES WILL BE FOUND IN THE UPPER 12-18" OF THE SOIL. MOST OF THE ROOTS THAT SUPPLY THE NUTRIENTS AND WATER TO THE TREE ARE FOUND JUST BELOW THE SOIL SURFACE. THE TOTAL AMOUNT OF A TREE'S ROOTS ARE GENERALLY PROPORTIONAL TO THE VOLUME OF THE TREE'S CANOPY. THEREFORE, IF THE ROOTS ONLY PENETRATE A THIN LAYER OF SOIL, THEN THE ROOTS MUST SPREAD FAR FROM THE TREE, BEYOND THE EXTENSION OF THE CANOPY.

3. PLOT ACCURATE TRUNK LOCATIONS OF ALL TREES GREATER THAN 3" DIAMETER AT BREAST HEIGHT (DBH) AND/OR TREE STANDS WITHIN DEVELOPMENT AREAS ON ALL PLANS FOR THE PROJECT AND DELINEATE THEIR ESTIMATED CRITICAL ROOT ZONE.

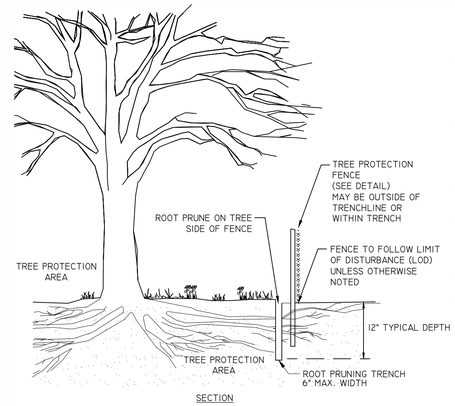
4. PLOT ACCURATE TRUNK LOCATIONS OF OFFSITE TREES WHICH WILL HAVE THEIR CRZ AFFECTED BY DEVELOPMENT AND DELINEATE THEIR ESTIMATED CRITICAL ROOT ZONE.

B L-02 TREE PROTECTION DETAIL FOR DETERMINING CRITICAL ROOT ZONE

N.T.S.

311300.3 (2020)

ARLINGTON VIRGINIA



SECTION

NOTES

1. ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY PLOW TO A DEPTH OF 12". ROOTS OVER 1.5" IN DIAMETER SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON THE SURFACE OF THE ROOT, WHICH IS STILL ATTACHED TO THE TREE. DO NOT BREAK OR CHOP. DO NOT PAINT THE CUT ROOT END. IF EXCAVATION IS FOR INSTALLATION OF UNDERGROUND UTILITIES, LEAVE THE ROOT INTACT AND THREAD THE LINES UNDERNEATH.

2. ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING AND SHALL BE APPROVED BY ARLINGTON COUNTY URBAN FORESTER.

3. ROOT PRUNING SHALL BE CONDUCTED WITH THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.

4. BACKFILL THE ROOT-PRUNING TRENCH WITH APPROVED LOOSE TOPSOIL MIX AND TOP WITH 3-4" BARK MULCH AND MARK LOCATION FOR FUTURE REFERENCE. SILT FENCE MAY BE INSTALLED IN TRENCH PRIOR TO BACKFILLING AS LONG AS THE TRENCH IS NOT OPEN FOR LONGER THAN 48 HOURS WITHOUT WATERING.

5. ROOT PRUNING WORK SHALL NOT BE DONE WHEN MORE THAN THE TOP 1 INCH OF SOIL IS FROZEN. ROOT PRUNING SHALL NOT BE UNDERTAKEN WHEN THE SOIL IS WET AND CONDITIONS ARE MUDDY.

6. THE ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO TRENCHING AND WHEN ALL ROOT PRUNING AND TREE PROTECTION FENCE INSTALLATION IS COMPLETE.

C L-02 ROOT PRUNING

N.T.S.

311300.5 (2020)

ARLINGTON VIRGINIA

TREE PRESERVATION NOTES

1. ALL MEASURES WILL BE REVIEWED AFTER INSTALLATION AND APPROVED BY THE PROJECT MANAGER AND COUNTY URBAN FORESTER. SUBSTITUTIONS OR ALTERNATIVE METHODS OR MATERIALS SHALL BE REVIEWED AND APPROVED BY COUNTY AND URBAN FORESTER. ALL TREE PROTECTION MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF DEMOLITION, SITE CLEARING OR CONSTRUCTION AND MAINTAINED THROUGHOUT CONSTRUCTION. TREE PROTECTION MEASURES SHALL ONLY BE REMOVED WITH COUNTY APPROVAL.TREE PROTECTION DEVICES SHALL BE MAINTAINED UNTIL ALL WORK IN THE VICINITY HAS BEEN COMPLETED AND SHALL NOT BE REMOVED OR RELOCATED WITHOUT THE CONSENT OF THE COUNTY URBAN FORESTER. IF THE COUNTY URBAN FORESTER DEEMS THAT THE PROTECTIVE DEVICES ARE INSUFFICIENT, INSTALLATION OF ADDITIONAL PROTECTIVE DEVICES MAY BE REQUIRED AS DIRECTED BY COUNTY REPRESENTATIVE.

2. HEAVY EQUIPMENT, VEHICULAR TRAFFIC, STOCKPILING OF MATERIALS, OR DEPOSITION OF SEDIMENT SHALL NOT BE PERMITTED WITHIN THE DRIPLINE OF EXISTING TREES TO REMAIN. DEMOLITION OF EXISTING CONDITIONS AND CONSTRUCTION OF PROPOSED IMPROVEMENTS IS PERMITTED WITHIN DRIPLINE (WITHIN LIMITS OF WORK) WITH LIGHT DUTY EQUIPMENT.CONSTRUCTION EQUIPMENT ACCESS BETWEEN VARIOUS WORK AREAS SHALL REMAIN ON EXISTING PAVEMENT/IMPROVED SURFACES TO THE GREATEST EXTENT POSSIBLE. WHERE THIS IS NOT POSSIBLE AND WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE TO REMAIN, ACCESS SHALL BE MADE ON ROOT PROTECTION MATTING (RPM) OR APPROVED ALTERNATIVE. CONTRACTOR TO DETERMINE ACCESS NEEDS AND COORDINATE RPM INSTALLATION WITH THE CONTRACT ARBORIST AND COUNTY URBAN FORESTER AT THE PRE-CONSTRUCTION MEETING OR BEFORE.

3. NO PROTECTIVE DEVICES, SIGNS, UTILITY BOXES OR OTHER OBJECTS SHALL BE NAILED OR AFFIXED TO TREES TO BE PRESERVED.

4. IN THE EVENT THAT A TREE OR PORTION THEREOF IS DEAD OR DYING DUE TO CONSTRUCTION OR ENVIRONMENTAL CHANGES RESULTING FROM DEMOLITION, CONSTRUCTION AND/OR CLEARING, AND POSES A HAZARD TO EITHER LIFE OR PROPERTY, THE CONTRACTOR SHALL NOTIFY PROJECT OFFICER AND TAKE SUCH ACTION AS NECESSARY TO ELIMINATE THE HAZARD CAREFULLY AS PER PROJECT MANAGER'S APPROVAL.

5. ANY DAMAGE INFLICTED TO THE ABOVE OR BELOW-GROUND PORTIONS OF THE TREES SHOWN TO BE PRESERVED SHALL BE REPAIRED IMMEDIATELY. ALL DAMAGED BRANCHES IN THE CROWN SHALL BE CUT OFF CLEANLY PER ARLINGTON COUNTY URBAN FORESTER.

6. TREES THAT ARE REQUIRED TO BE REMOVED SHALL BE REMOVED IN SUCH A WAY THAT SURROUNDING TREES, VEGETATION, LANDSCAPING, STRUCTURES, AND SITE FEATURES ARE NOT DAMAGED.

7. TREES THAT ARE REQUIRED TO BE REMOVED SHALL BE CUT DOWN BY HAND WITH A CHAIN SAW. THESE TREES SHALL BE CUT DOWN FLUSH WITH THE GROUND (WITHIN 2" OF THE SOIL), AND CUT INTO MOVABLE LENGTHS, TO PREVENT THE CREATION OF A NEW HAZARD. REMAINING STUMPS SHALL BE REMOVED OR GROUND DOWN WITH A STUMP GRINDER.

8. TREES BEING REMOVED SHALL NOT BE FELLED, PUSHED, OR PULLED INTO TREE PRESERVATION AREAS. EQUIPMENT OPERATORS SHALL NOT CLEAN ANY PART OF THEIR EQUIPMENT BY SLAMMING IT AGAINST THE TRUNKS OF TREES TO BE RETAINED.

9. THE EXACT LOCATION AND DEPTH OF ROOT PRUNING WILL BE DETERMINED DURING THE PRE-CONSTRUCTION MEETING. SPECIFIC EQUIPMENT & METHODS WILL BE DETERMINED BY CONTRACT ARBORIST AND COUNTY URBAN FORESTER BASED UPON DEPTH & TREE IMPACT. (SEE DETAIL)

10. HAND PRUNE ROOTS OVER 1" DIAMETER WITHIN CRZS OF SIGNIFICANT TREES. STEEP SLOPES, DEEP EXCAVATIONS AND PAVEMENT/CURB REMOVAL WILL BE REVIEWED WHEN OPEN FOR HAND ROOT PRUNING DURING CONSTRUCTION. COORDINATE WITH SILT FENCE INSTALLATION TO MINIMIZE UNNECESSARY ROOT DAMAGE. ROOT PRUNING SHALL BE PERFORMED BY A CERTIFIED ARBORIST AND SHALL FOLLOW ALL DPR APPROVED DETAILS.

11. SPECIAL DEMO AREAS: HEAVY EQUIPMENT, VEHICULAR TRAFFIC, STOCKPILING OF MATERIALS, OR DEPOSITION OF SEDIMENT SHALL NOT BE PERMITTED. CONTRACTOR SHALL HAND EXCAVATE AND REMOVE WITH NON MECHANIZED EQUIPMENT. ACCESS SHALL BE MADE ON ROOT PROTECTION MATTING (RPM) OR APPROVED ALTERNATIVE. CONTRACTOR TO DETERMINE ACCESS NEEDS AND COORDINATE RPM INSTALLATION WITH THE CONTRACT ARBORIST AND COUNTY URBAN FORESTER AT THE PRE-CONSTRUCTION MEETING OR BEFORE. BACKFILL OF VOIDS FROM DEMOLITION WITHIN THE SPECIAL TREE PROTECTION AREAS SHALL BE LOOSELY PLACED TOPSOIL. ONLY THE AMOUNT OF SOIL NECESSARY TO FILL THE VOID WITHOUT SPREADING OVER EXISTING ADJACENT GRADES SHALL BE ALLOWED. THESE AREAS SHALL BE MULCHED WITH 3" OF APPROVED MULCH WITHIN 24 HOURS OF DEMOLITION ACTIVITIES.

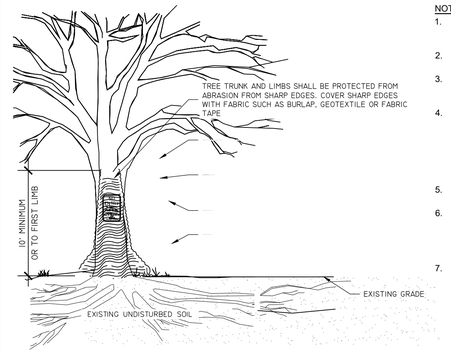
12. ROOTS ENCOUNTERED DURING DEMOLITION SHALL BE REVIEWED ON A CASE-BY-CASE BASIS BY THE CONTRACTOR, PROJECT MANAGER AND COUNTY URBAN FORESTER. THE CONTRACTOR SHALL PROVIDE APPROPRIATE TREATMENT OR PRUNING METHODS AS NEEDED AND IN GENERAL CONFORMANCE WITH ACCEPTED INDUSTRY STANDARDS AND THIS SECTION.

13. TREE LOCATIONS MAY BE APPROXIMATE. OWNER AND CONTRACT ARBORIST SHALL VERIFY ALL TREE LOCATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND/OR TREATMENT OR REMOVAL.

14. PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO COMMENCEMENT OF DEMOLITION/CONSTRUCTION ACTIVITY. COUNTY, OWNER, DESIGN TEAM MEMBERS (PROJECT MANAGER, LANDSCAPE ARCHITECT, ARLINGTON COUNTY URBAN FORESTER,ARLINGTON COUNTY LANDSCAPE ARCHITECT), CONTRACT ARBORIST, SITE AND LANDSCAPE CONTRACTORS SHALL ATTEND.

15. THE INSPECTION OF THESE TREES CONSISTED SOLELY OF A VISUAL INSPECTION FROM THE GROUND. WHILE MORE THOROUGH TECHNIQUES ARE AVAILABLE FOR INSPECTION AND EVALUATION, THEY WERE NEITHER REQUESTED NOR CONSIDERED NECESSARY OR APPROPRIATE AT THIS TIME.

16. TREES RATED "POOR" OR "DEAD" THAT ARE NOT RECOMMENDED FOR REMOVAL DUE TO CONSTRUCTION IMPACT MAY WARRANT FURTHER EVALUATION AND/OR TREATMENT OR REMOVAL.



NOTES:

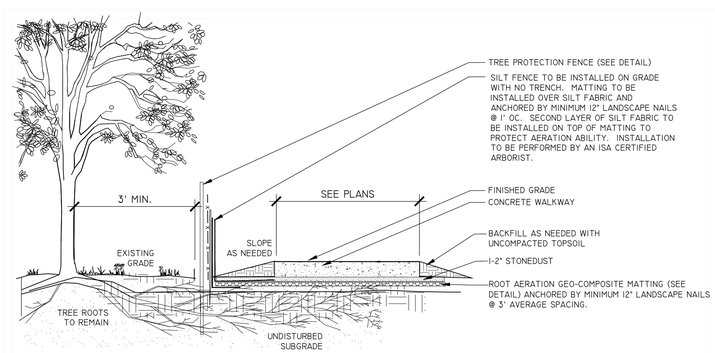
1. TRUNK WRAP MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING.
2. WRAP SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
3. WRAP SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
4. WRAP SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. REMOVE WRAP ONLY WITH APPROVAL AND AFTER ALL SITE WORK HAS BEEN COMPLETED. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO REMOVAL.
5. WRAP SHALL BE REMOVED PROMPTLY AFTER CONSTRUCTION.
6. MAJOR SCAFFOLD LIMBS MAY ALSO REQUIRE THIS PROTECTION AS DIRECTED BY THE PROJECT ARBORIST OR REQUESTED BY ARLINGTON COUNTY URBAN FORESTER.
7. WRAP SHALL EXTEND AS HIGH AS ADJACENT MACHINERY THAT IS WORKING ADJACENT TO TREES. PROJECT ARBORIST AND ARLINGTON COUNTY URBAN FORESTER MAY REQUIRE DOUBLE WRAP OR HEAVY DUTY WRAP IN AREAS OF MAJOR EXCAVATION.

D L-02 TRUNK WRAP

N.T.S.

311300.18NS (2020)

ARLINGTON VIRGINIA DPR



NOTES:
1. ALL WORK SHALL BE SUPERVISED BY AN ISA CERTIFIED ARBORIST.
2. NO ROOTS GREATER THAN 1" SHALL BE CUT WITHOUT REVIEW BY ARLINGTON COUNTY URBAN FORESTER.
3. EXCAVATION SHALL BE NOT MORE THAN MINIMUM NEEDED TO ACHIEVE REQUIRED FINAL GRADE
4. ALL EXCAVATION SHAL BE BY AIR SPADE AND/OR BY HAND TO MINIMIZE ROOT DAMAGE AS DIRECTED BY CERTIFIED ARBORIST.
5. WORK SHALL NOT DAMAGE TREE TRUNK, LIMBS OR ROOTS TO REMAIN.

E L-02 TREE SENSITIVE CONCRETE SIDEWALK

N.T.S.

311300.11NS

ARLINGTON VIRGINIA DPR

ARLINGTON VIRGINIA

DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

Project Name and Location

11th and Danville Park Renovation

BY-RIGHT

2751 11th St North
Arlington, VA

Sheet Title

Tree Preservation Notes and Details

LDA-46746
#LDA22032

Approval	Date
Design Supervisor	

Revisions	Date
REV 1	REV 1 DATE
REV 2	REV 2 DATE
REV 1	REV 3 DATE
REV 1	REV 4 DATE
REV 5	REV 5 DATE

Designed: kvb
Drawn: kvb
Checked: bg

Filename: DVILLE BASE 2022.05.17
Plotted: May. 18, 22

Scale: As Noted
Date: May. 18, 22

Seal

COMMONWEALTH OF VIRGINIA
KATHY VON BREDOW
Lic. No. 1611
05.12.2022
LANDSCAPE ARCHITECT

Sheet

L-02