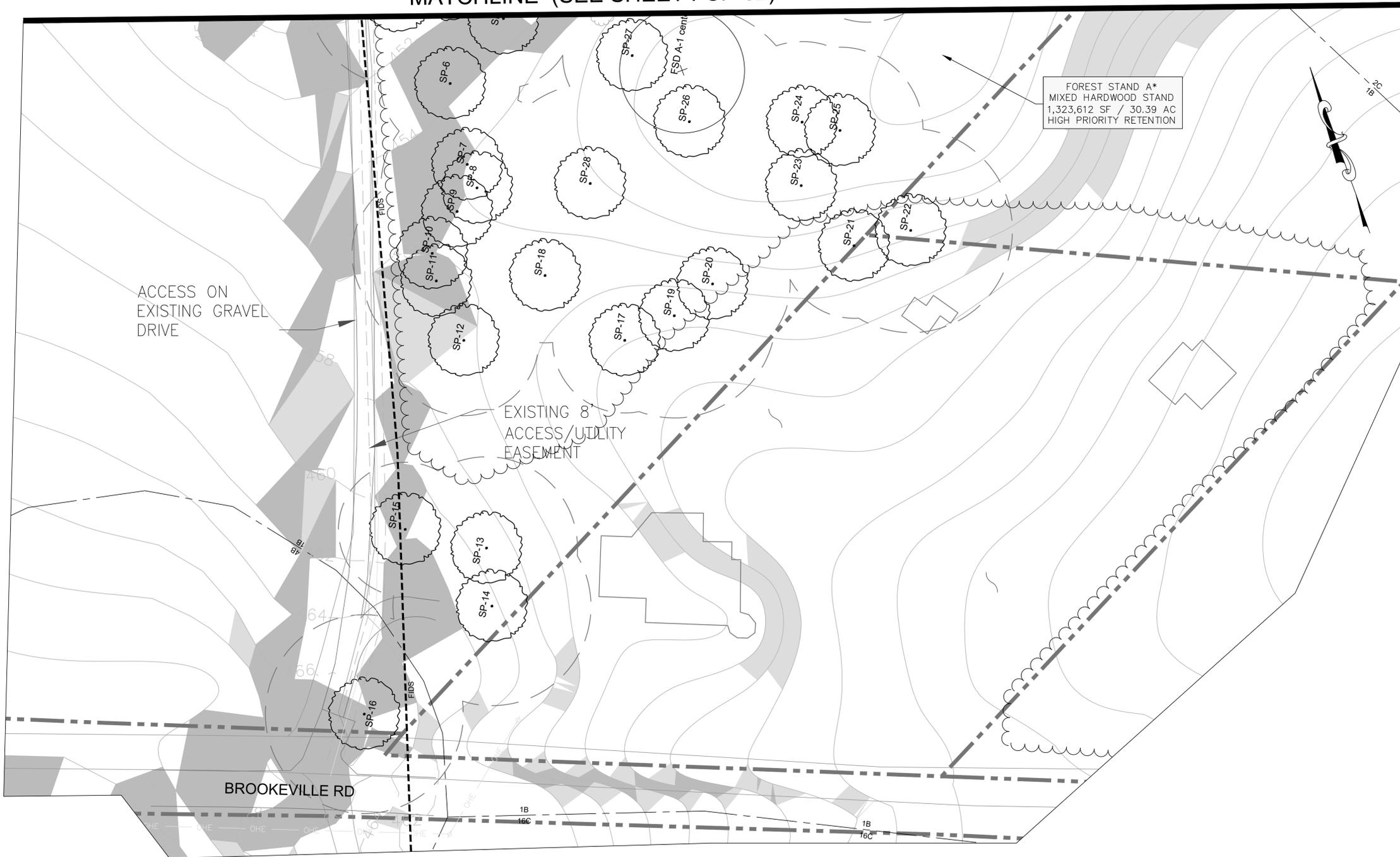


MATCHLINE (SEE SHEET FCP-02)

- GENERAL NOTES:**
1. PROPERTY OFFSETS ARE APPROXIMATE. FINAL LOCATION OF COMPOUND TO BE DEVELOPED FROM TOWER ☺
 2. THE LOCATION, SIZE & TYPE OF MATERIAL OF EXISTING UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS & SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION & ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES & THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS & SERVICES SHALL BE RESORTED TO SERVICE AT ONCE & PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
 3. ALL PROPOSED CONSTRUCTION ACTIVITIES & MODIFICATIONS SHALL COMPLY WITH MOTOROLA R-56 STANDARDS, MOST CURRENT REVISION.

ANY DISCREPANCIES BETWEEN THIS DRAWING PACKAGE AND EXISTING FIELD CONDITIONS MUST BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.



- LEGEND**
- 2' CONTOUR (SOURCE: COUNTY GIS)
 - STREAM LINE (SOURCE: NWI & COUNTY HYDROLOGY GIS)
 - NON-TIDAL WETLAND BOUNDARY (SOURCE: NWI GIS)
 - APPROXIMATE 25' WETLAND BUFFER
 - APPROXIMATE STREAM BUFFER
 - FOREST LINE
 - FOREST STAND BREAK
 - FOREST INTERIOR DWELLING SPECIES (SOURCE: MD MERLIN)
 - PROPERTY LINE
 - OVERHEAD UTILITY LINE
 - EX. GRAVEL DRIVE FOR ACCESS
 - SOILS BOUNDARY (16B, 9C)
 - SPECIMEN TREE WITH CRITICAL ROOT ZONE (SP-1)
 - BUILDING
 - STEEP SLOPES 15-25%
 - STEEP SLOPES 25% AND GREATER
 - PROPOSED EASEMENT
 - PROPOSED FENCE
 - PROPOSED LIMIT OF DISTURBANCE (LOD)
 - PROPOSED CONTOUR (446)
 - PROPOSED FOREST CLEARING

DEVELOPER'S CERTIFICATE

THE UNDERSIGNED AGREES TO EXECUTE ALL THE FEATURES OF THE APPROVED FINAL FOREST CONSERVATION PLAN NO. _____ INCLUDING, FINANCIAL BONDING, FOREST PLANTING, MAINTENANCE, AND ALL OTHER APPLICABLE AGREEMENTS.

DEVELOPER'S NAME: Motorola Solutions, Inc
PRINTED COMPANY NAME

CONTACT PERSON OR OWNER: Donald Millner
PRINTED NAME

ADDRESS: 809 Pinnacle Dr Suite G Linthicum Heights, MD 21090

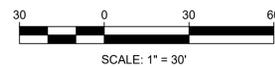
PHONE & EMAIL: 410-459-0216 don.millner@motorolasolutions.com

SIGNATURE: Don Millner

THIS PLAN WAS PREPARED BY:
AMANDA WAGONER
KCI TECHNOLOGIES, INC.
MDNR QUALIFIED PROFESSIONAL
(JUNE 2014)

Amanda Wagoner
SIGNATURE

FEBRUARY 2020
DATE



KCI TECHNOLOGIES

ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD
SHARPS, MD 21152
PHONE: (410) 316-7800
FAX: (410) 316-7817
WWW.KCI.COM

REVISIONS				DATE
NO.	DATE	DESCRIPTION	BY	FEBRUARY 2020

CHECKED BY: _____
JOB: _____
DRAWN BY: AAW

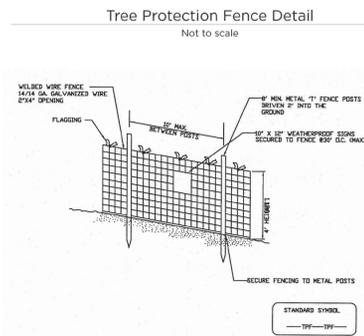
APPLICANT: RADIO COMMUNICATIONS SERVICES (DEPARTMENT OF TECHNOLOGY SERVICES)

PLAN NUMBER:
BROOKEVILLE ROAD PROPOSED TOWER FOREST CONSERVATION PLAN

4301 BROOKEVILLE ROAD BROOKEVILLE, MARYLAND 20833
MONTGOMERY COUNTY

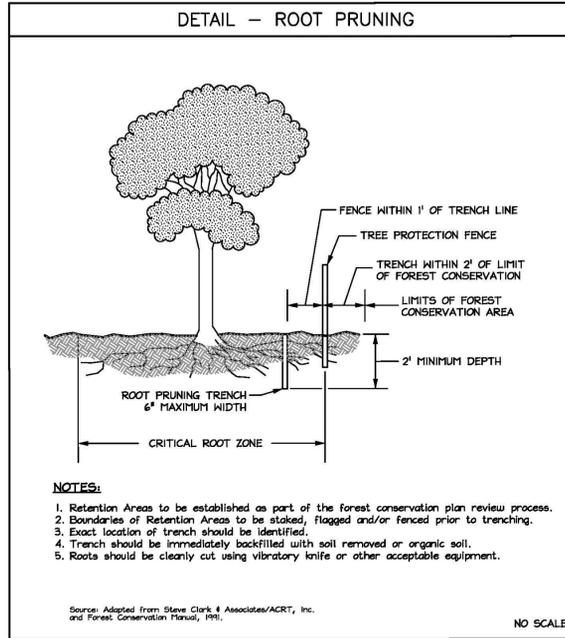
DRAWING NO.
FCP-01

SHEET 2 OF 4
KCI JOB NUMBER
011702908.06



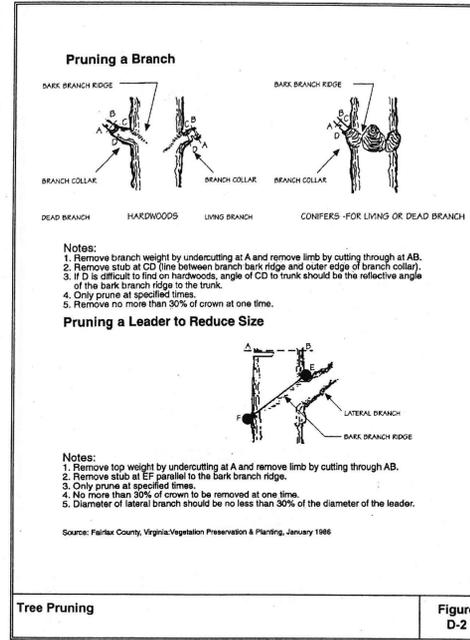
- NOTES**
1. Practice may be combined with sediment control fencing.
 2. Location and limits of fencing should be coordinated in field with arborist.
 3. Boundaries of protection area should be staked prior to installing protective device.
 4. Root damage should be avoided.
 5. Protection signage is required.
 6. Fencing shall be maintained throughout construction.

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- NOTES:**
1. Retention Areas to be established as part of the forest conservation plan review process.
 2. Boundaries of Retention Areas to be staked, flagged and/or fenced prior to trenching.
 3. Exact location of trench should be identified.
 4. Trench should be immediately backfilled with soil removed or organic soil.
 5. Roots should be clearly cut using vibratory knife or other acceptable equipment.

Source: Adapted from Steve Clark & Associates/ACRT, Inc. and Forest Conservation Manual, 1991.



Tree Pruning **Figure D-2**

Sequence of Events for Properties Required to Comply With Forest Conservation Plans, Exemptions from Submitting Forest Conservation Plans, and Tree Save Plans

The property owner is responsible for ensuring all tree protection measures are performed in accordance with the approved final forest conservation plan or tree save plan, and as modified in the field by a Planning Department Forest Conservation Inspector. The measures must meet or exceed the most recent standards published by the American National Standards Institute (ANSI A300).

Pre-Construction

1. An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged and before any land disturbance.
 - i. Chain link fence (four feet high)
 - ii. Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging.
 - iii. 14 gauge, 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
2. The property owner must arrange for the meeting and following people should participate at the pre-construction meeting: the property owner or their representative, construction superintendent, International Society of Arboriculture (ISA) certified arborist/Maryland Licensed Tree Expert (representing owner) that will implement the tree protection measures, The Planning Department Forest Conservation Inspector, and Montgomery County Department of Permitting Services (DPS) Sediment Control Inspector. The purpose of this meeting is to verify the limits of disturbance and discuss specific tree protection and tree care measures shown on the approved plan. No land disturbance shall begin before tree protection and stress-reduction measures have been implemented and approved by the Planning Department's Forest Conservation Inspector.
 - i. Typical tree protection devices include:
 - a. Chain link fence (four feet high)
 - b. Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging.
 - c. 14 gauge, 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
 - ii. Typical stress reduction measures may include, but are not limited to:
 - a. Root pruning with a root cutter or vibratory plow designed for that purpose. Trenchers are not allowed, unless approved by the Forest Conservation Inspector
 - b. Crown Reduction or pruning
 - c. Watering
 - d. Fertilizing
 - e. Vertical mulching
 - f. Root aeration systems

photographs) may be required by the Forest Conservation Inspector, and will be determined at the pre-construction meeting.

4. Temporary tree protection devices must be installed per the approved Forest Conservation Plan, Exemption Plan, or Tree Save Plan and prior to any land disturbance. The Forest Conservation Inspector, in coordination with the DPS Sediment Control Inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan.
5. Tree protection fencing must be installed and maintained by the property owner for the duration of construction project and must not be altered without prior approval from the Forest Conservation Inspector. All construction activity within protected tree and forest areas is prohibited. This includes the following activities:
 - a. Parking or driving of equipment, machinery or vehicles of any type
 - b. Storage of any construction materials, equipment, stockpiling, fill, debris, etc.
 - c. Dumping of any chemicals (i.e., paint thinner), mortar or concrete remainder, trash, garbage, or debris of any kind.
 - d. Felling of trees into a protected area.
 - e. Trenching or grading for utilities, irrigation, drainage, etc.
6. Forest and tree protection signs must be installed as required by the Forest Conservation Inspector. The signs must be waterproof and wording provided in both English and Spanish.

During Construction

7. Periodic inspections will be made by the Forest Conservation Inspector. Corrections and repairs to tree protection devices must be completed within the timeframe given by the Inspector.
8. The property owner must immediately notify the Forest Conservation Inspector of any damage to trees, forests, understory, ground cover, and any other undisturbed areas shown on the approved plan. Remedial actions, and the relative timeframes to restore these areas, will be determined by the Forest Conservation Inspector.

Post-Construction

9. After construction is completed, but before tree protection devices have been removed, the property owner must request a final inspection with the Forest Conservation Inspector. At the final inspection, the Forest Conservation Inspector may require additional corrective measures, which may include:
 - a. Removal, and possible replacement, of dead, dying, or hazardous trees
 - b. Pruning of dead or declining limbs
 - c. Soil aeration
 - d. Fertilization
 - e. Watering
 - f. Wound repair

g. Clean up of retention areas, including trash removal

10. After the final inspection and completion of all corrective measures the Forest Conservation Inspector will request all temporary tree and forest protection devices be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both DPS and the Forest Conservation Inspector and cannot be removed without permission of the Forest Conservation Inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.
11. Long-term protection measures, including permanent signage, must be installed per the approved plan. Installation will occur at the appropriate time during the construction project. Refer to the approved plan drawing for the long-term protection measures to be installed.

FOREST CONSERVATION WORKSHEET						
"Brookville Road Proposed Tower"						
						5-Aug-02
NET TRACT AREA:						
A. Total tract area ...						166.83
B. Land dedication acres (parks, county facility, etc.) ...						0.00
C. Land dedication for roads or utilities (not being constructed by this plan) ...						0.00
D. Area to remain in commercial agricultural production/use ...						166.72
E. Other deductions (specify) ...						0.00
F. Net Tract Area ...						0.11
LAND USE CATEGORY: (from Trees Technical Manual)						
Input the number "1" under the appropriate land use, limit to only one entry.						
	ARA	MDR	IDA	HDR	MPD	CIA
	1	0	0	0	0	0
G. Afforestation Threshold ...						20% x F = 0.02
H. Conservation Threshold ...						50% x F = 0.06
EXISTING FOREST COVER:						
I. Existing forest cover ...						0.08
J. Area of forest above afforestation threshold ...						0.06
K. Area of forest above conservation threshold ...						0.02
BREAK EVEN POINT:						
L. Forest retention above threshold with no mitigation ...						0.06
M. Clearing permitted without mitigation ...						0.02
PROPOSED FOREST CLEARING:						
N. Total area of forest to be cleared ...						0.08
O. Total area of forest to be retained ...						0.00
PLANTING REQUIREMENTS:						
P. Reforestation for clearing above conservation threshold ...						0.01
Q. Reforestation for clearing below conservation threshold ...						0.11
R. Credit for retention above conservation threshold ...						0.00
S. Total reforestation required ...						0.12
T. Total afforestation required ...						0.00
U. Credit for landscaping (may not exceed 20% of "S") ...						0.00
V. Total reforestation and afforestation required ...						0.12

NOTE: MITIGATION WILL BE PAID INTO A MITIGATION BANK.

MITIGATION REQUIREMENTS		
STREAM BUFFER		
REQUIRED	DISTURBANCE	MITIGATION
200 TREES / ACRE	4,979 SF / 0.11 AC	22 1" CAL. TREES

STATE BILL 666-NO NET LOSS OF FOREST POLICY-FOREST CONSERVATION ACT NOTICE:

- THE PLAN DOES NOT PROPOSE TO REMOVE:
1. ANY TREE WITH A DBH EQUAL TO OR GREATER THAN 75% OF THE CURRENT STATE CHAMPION
 2. TREES THAT ARE PART OF A HISTORIC SITE OR ASSOCIATED WITH A HISTORIC STRUCTURE
 3. ANY TREE DESIGNATED AS THE COUNTY CHAMPION TREE
 4. ANY TREE, SHRUB OR PLANT IDENTIFIED ON THE LIST OF RARE, THREATENED AND ENDANGERED LIST OF THE U.S. FISH AND WILDLIFE SERVICE OR THE MARYLAND DEPARTMENT OF NATURAL RESOURCES.

THE CRITICAL ROOT ZONE OF ALL TREES GREATER THAN 24" ARE SHOWN ON THIS PLAN.

SOILS TABLE				
Soil Symbol	Soil Unit Name	Percent Slope	K _s value	Hydric (Y/N)
1B	Gaia silt loam	3-8	0.43	No
1C	Gaia silt loam	8-15	0.43	No
2B	Glenelg silt loam	3-8	0.37	No
2C	Glenelg silt loam	8-15	0.37	No
4B	Elioak silt loam	3-8	0.37	No
5A	Glenville silt loam	0-3	0.37	No
5B	Glenville silt loam	3-8	0.37	No
6A	Baile silt loam	0-3	0.37	Yes
16C	Brinklow-Blocktown Channery silt loam	8-15	0.43	No
16D	Brinklow-Blocktown Channery silt loam	15-25	0.37	No
116E	Blocktown Channery silt loam, very rock	25-45	0.49	No

NOTE: ALL SOILS ARE CONSIDERED HIGHLY ERODIBLE EXCEPT 5A AND 6A. THE STREAM BUFFER HAS BEEN EXPANDED TO INCLUDE THE HIGHLY ERODIBLE SOILS.

SPECIMEN TREE TABLE									
Number	Species	Common Name	Size, DBH (in)	Condition	Notes	% CRZ Impact	Result		
SP-1	Quercus rubra	Northern Red Oak	28.0	Good	Leaning	2	To be Saved		
SP-2	Quercus alba	White Oak	33.0	Fair	Vine coverage	0	To be Saved		
SP-3	Quercus rubra	Northern Red Oak	37.0	Good	Some broken branches	5	To be Saved	Root Pruning	
SP-4	Quercus rubra	Northern Red Oak	38.0	Good		0	To be Saved		
SP-5	Nyssa sylvatica	Black Gum	26.0	Good		0	To be Saved		
SP-6	Liriodendron tulipifera	Tulip Poplar	26.0	Good	Some broken branches	0	To be Saved		
SP-7	Liriodendron tulipifera	Tulip Poplar	28.0	Fair	Some vines, minimal crown	0	To be Saved		
SP-8	Quercus falcata	Southern Red Oak	36.0	Fair	Leaning, bark missing	0	To be Saved		
SP-9	Nyssa sylvatica	Black Gum	25.0	Good	Broken Branches	0	To be Saved		
SP-10	Liriodendron tulipifera	Tulip Poplar	30.0	Good	Minor vines, splits below DBH	0	To be Saved		
SP-11	Liriodendron tulipifera	Tulip Poplar	27.0	Fair	Vine coverage, barbed wire in the trunk, splits below DBH	0	To be Saved		
SP-12	Quercus rubra	Northern Red Oak	28.0	Fair	Vine coverage	0	To be Saved		
SP-13	Quercus rubra	Northern Red Oak	34.0	Good		0	To be Saved		
SP-14	Liriodendron tulipifera	Tulip Poplar	37.0	Fair	Broken/missing branches	0	To be Saved		
SP-15	Liriodendron tulipifera	Tulip Poplar	25.0	Good		0	To be Saved		
SP-16	Quercus alba	White Oak	37.0	Good	Located near Brookville Road	0	To be Saved		
SP-17	Liriodendron tulipifera	Tulip Poplar	27.0	Good		0	To be Saved		
SP-18	Liriodendron tulipifera	Tulip Poplar	25.0	Poor	Insect damage, broken/missing branches	0	To be Saved		
SP-19	Liriodendron tulipifera	Tulip Poplar	38.0	Good		0	To be Saved		
SP-20	Liriodendron tulipifera	Tulip Poplar	29.0	Good	Some broken branches	0	To be Saved		
SP-21	Carya glabra	Pignut Hickory	27.0	Good		0	To be Saved		
SP-22	Quercus alba	White Oak	38.0	Good		0	To be Saved		
SP-23	Liriodendron tulipifera	Tulip Poplar	25.0	Good		0	To be Saved		
SP-24	Liriodendron tulipifera	Tulip Poplar	30.0	Good	Minimal crown	0	To be Saved		
SP-25	Liriodendron tulipifera	Tulip Poplar	31.0	Good		0	To be Saved		
SP-26	Liriodendron tulipifera	Tulip Poplar	43.0	Fair	Vine coverage, broken/missing branches	0	To be Saved		
SP-27	Liriodendron tulipifera	Tulip Poplar	26.0	Good	Minimal crown	0	To be Saved		
SP-28	Liriodendron tulipifera	Tulip Poplar	37.0	Good	Minimal crown, broken branches	0	To be Saved		
SP-29	Quercus velutina	Black Oak	26.0	Good	Broken Branches	0	To be Saved		
SP-30	Quercus rubra	Northern Red Oak	28.0	Fair	Vines, broken/missing branches	1	To be Saved		
SP-31	Acer rubrum	Red Maple	25.0	Good		0	To be Saved		
SP-32	Liriodendron tulipifera	Tulip Poplar	34.0	Good	Some missing branches	0	To be Saved		
SP-33	Quercus alba	White Oak	25.0	Good	Minor vines	0	To be Saved		
SP-34	Liriodendron tulipifera	Tulip Poplar	33.0	Good		0	To be Saved		
SP-35	Liriodendron tulipifera	Tulip Poplar	28.0	Fair	Double trunk, minimal crown	0	To be Saved		
SP-36	Acer rubrum	Red Maple	30.0	Fair	Double trunk, splits above DBH, one trunk dying	0	To be Saved		
SP-37	Liriodendron tulipifera	Tulip Poplar	26.0	Good		0	To be Saved		
SP-38	Liriodendron tulipifera	Tulip Poplar	32.0	Good		0	To be Saved		
SP-39	Liriodendron tulipifera	Tulip Poplar	35.0	Fair	Cavity starting at base, Broken/missing branches	0	To be Saved		
SP-40	Liriodendron tulipifera	Tulip Poplar	24.0	Fair	Cavity at base	0	To be Saved		
SP-41	Liriodendron tulipifera	Tulip Poplar	37.0	Good	Minimal crown	0	To be Saved		
SP-42	Liriodendron tulipifera	Tulip Poplar	26.0	Good		0	To be Saved		
SP-43	Acer rubrum	Red Maple	24.0	Fair	Vines, broken branches	0	To be Saved		
SP-44	Quercus rubra	Northern Red Oak	36.0	Good	Leaning at the top	0	To be Saved		
SP-45	Liriodendron tulipifera	Tulip Poplar	29.0	Good	Minimal crown	0	To be Saved		
SP-46	Liriodendron tulipifera	Tulip Poplar	26.0	Good		0	To be Saved		
SP-47	Quercus velutina	Black Oak	32.0	Fair	Broken/missing branches	0	To be Saved		
SP-48	Liriodendron tulipifera	Tulip Poplar	26.0	Good		0	To be Saved		
SP-49	Liriodendron tulipifera	Tulip Poplar	25.0	Fair	Broken/missing branches	0	To be Saved		
SP-50	Liriodendron tulipifera	Tulip Poplar	29.0	Good		0	To be Saved		
SP-51	Liriodendron tulipifera	Tulip Poplar	27.0	Good		0	To be Saved		
SP-52	Liriodendron tulipifera	Tulip Poplar	24.0	Good		0	To be Saved		
SP-53	Liriodendron tulipifera	Tulip Poplar	28.0	Good	Some vines	0	To be Saved		
SP-54	Liriodendron tulipifera	Tulip Poplar	34.0	Good	Minimal crown	0	To be Saved		
SP-55	Liriodendron tulipifera	Tulip Poplar	30.0	Good		0	To be Saved		
SP-56	Liriodendron tulipifera	Tulip Poplar	24.0	Good	Minor vines	0	To be Saved		
SP-57	Liriodendron tulipifera	Tulip Poplar	25.0	Good	Minor vines	0	To be Saved		
SP-58	Liriodendron tulipifera	Tulip Poplar	28.0	Good	Some broken branches	0	To be Saved		
SP-59	Quercus velutina	Black Oak	24.0	Good		0	To be Saved		
SP-60	Quercus velutina	Black Oak	31.0	Good		0	To be Saved		
SP-61	Quercus velutina	Black Oak	26.0	Good	Leaning	0	To be Saved		
SP-62	Quercus velutina	Black Oak	30.0	Good	Some broken branches	0	To be Saved		
SP-63	Quercus rubra	Northern Red Oak	35.0	Fair	Insect damage	0	To be Saved		
SP-64	Quercus rubra	Northern Red Oak	28.0	Good	Good	0	To be Saved		
SP-65	Liriodendron tulipifera	Tulip Poplar	37.0	Good		0	To be Saved		
SP-66	Quercus velutina	Black Oak	26.0	Fair	Leaning, missing/broken branches	0	To be Saved		
SP-67	Quercus rubra	Northern Red Oak	29.0	Good		0	To be Saved		
SP-68	Liriodendron tulipifera	Tulip Poplar	25.0	Good		0	To be Saved		
SP-69	Carya glabra	Pignut Hickory	26.0	Fair	Knots, broken/missing branches	0	To be Saved		
SP-70	Liriodendron tulipifera	Tulip Poplar	27.0	Good	Some broken branches	0	To be Saved		
SP-71	Liriodendron tulipifera	Tulip Poplar	33.0	Good		0	To be Saved		
SP-72	Quercus rubra	Northern Red Oak	30.0	Good		0	To be Saved		
SP-73	Liriodendron tulipifera	Tulip Poplar	28.0	Good		6	To be Saved		

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DEVELOPER'S NAME: **Motorola Solutions, Inc**
PRINTED COMPANY NAME

CONTACT PERSON OR OWNER: **Donald Millner**
PRINTED NAME

ADDRESS: **809 Pinnacle Dr Suite G Linthicum Heights, MD 21090**

PHONE & EMAIL: **410-459-0216 don.millner@motorolasolutions.com**

SIGNATURE: *Don Millner*

APPLICANT: **RADIO COMMUNICATIONS SERVICES (DEPARTMENT OF TECHNOLOGY SERVICES)**

PLAN NUMBER:
BRO