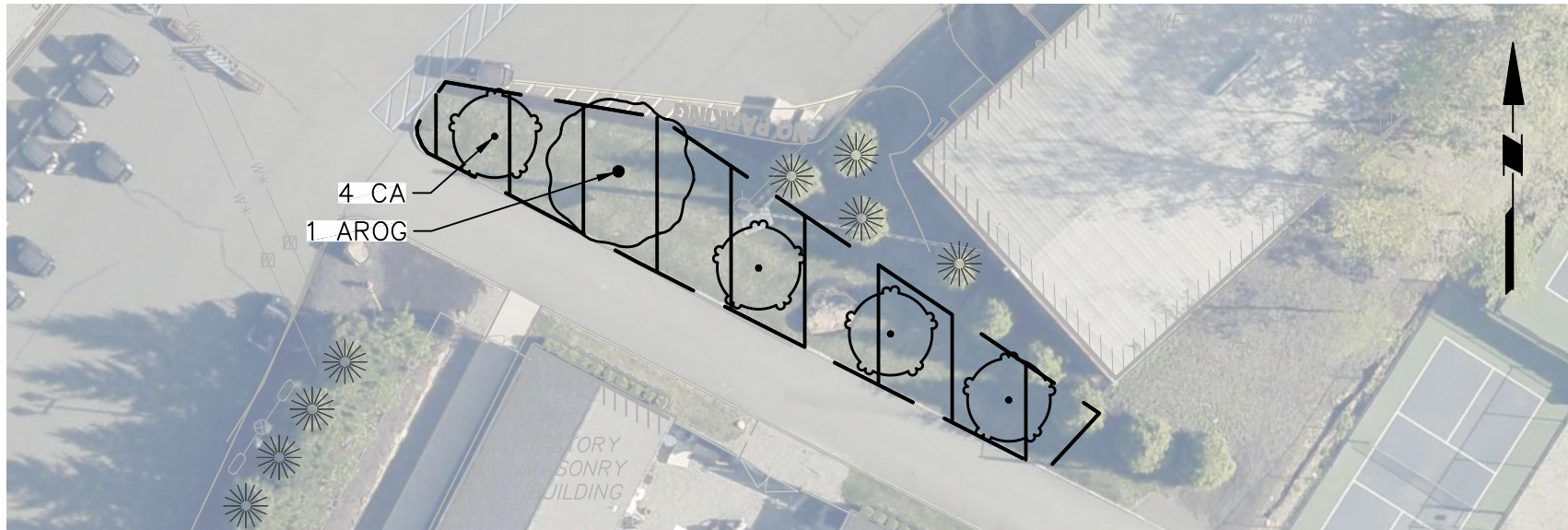
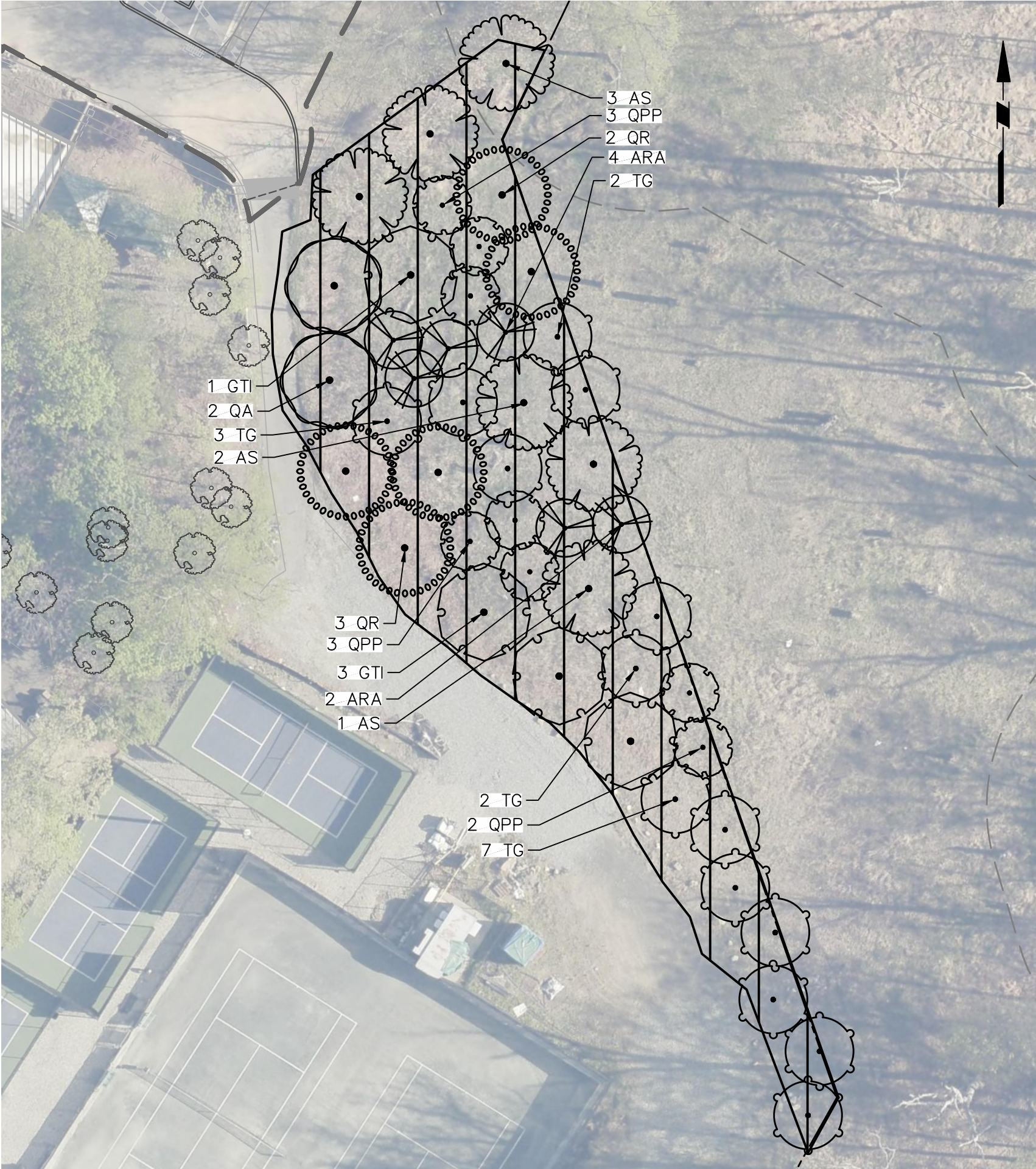




NOTE(S):
REFER TO SHEETS LD101 & LD102 OF THE LATEST CRESTMONT COUNTRY CLUB & EAGLE ROCK AVE IMPROVEMENTS SITE PLAN SET FOR THE TREE REMOVAL PLANS, REPLACEMENT CALCULATIONS, AND SUMMARY.



RESTORATION AREA 'A'



RESTORATION AREA 'B'

PLANT SCHEDULE - OVERALL RESTORATION AREAS 'ON-SITE'

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
SHADE TREE(S)					
ARA	47	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE	4-4 1/2" CAL.	B&B
AS	25	ACER SACCHARUM	SUGAR MAPLE	4-4 1/2" CAL.	B&B
GTI	23	GLEDITSIA TRIACANTHOS F. INERMIS	THORNLESS HONEY LOCUST	4-4 1/2" CAL.	B&B
QA	23	QUERCUS ACUTISSIMA	SAWTOOTH OAK	4-4 1/2" CAL.	B&B
QPP	45	QUERCUS PALUSTRIS 'PRINGREEN'	GREEN PILLAR®PIN OAK	4-4 1/2" CAL.	B&B
QR	31	QUERCUS RUBRA	NORTHERN RED OAK	4-4 1/2" CAL.	B&B
TG	45	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	4-4 1/2" CAL.	B&B
TOTAL	239				

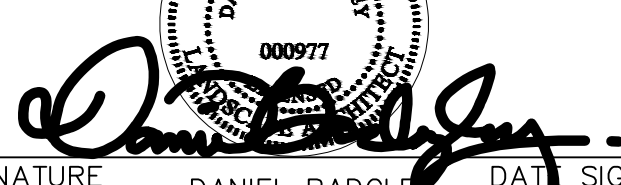
- NOTES:
- IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.
 - APPLICANT TO PLANT REMAINING REQUIRED TREES ON ANOTHER PROPERTY WITHIN THE TOWNSHIP SUBJECT TO COORDINATION WITH THE FORESTER.
 - REFER TO DRAWING LD101 - PARTIAL TREE REMOVAL PLAN WITHIN THE SITE PLAN SET TITLED "CRESTMONT COUNTRY CLUB & EAGLE ROCK AVE IMPROVEMENTS," PREPARED BY LANGAN FOR THE PROPOSED TREE REMOVAL AND REPLACEMENT SUMMARY CALCULATIONS.

- GENERAL NOTES:
- BACKGROUND SITE BOUNDARY AND PARTIAL TOPOGRAPHIC SURVEY INFORMATION REFERENCED FROM SURVEY PLANS TITLED "RIGHT OF WAY & PARTIAL SITE SURVEY," PREPARED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, LLC, DATED FEBRUARY 11, 2026. THE EXTENTS OF THE PARTIAL TOPOGRAPHIC SURVEY INCLUDES THE NORTHERN PORTION OF THE SUBJECT PROPERTY FROM THE EXISTING CLUBHOUSE BUILDING NORTHWARD TO EAGLE ROCK AVENUE; REFER TO THE SURVEY PLANS FOR THE EXTENTS.
 - HORIZONTAL DATUM REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATES (NAD 83).
 - ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 - PROPOSED IMPROVEMENTS AND DESIGN INFORMATION WITHIN THE COUNTY RIGHT-OF-WAY REFERENCED FROM PLANS TITLED "EAGLE ROCK AVENUE ROADWAY IMPROVEMENT PLANS," PREPARED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, LLC.

REFERENCE NOTE:
AERIAL IMAGERY OBTAINED FROM EAGLEVIEW. IMAGE CAPTURED ON APRIL 28, 2025.

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Date	Description	No.

REVISIONS

SIGNATURE:  **DANIEL BADGLEY** DATE: **SIGNED**
N.J. LICENSED LANDSCAPE ARCHITECT
LICENSE NO. 21AS00097700

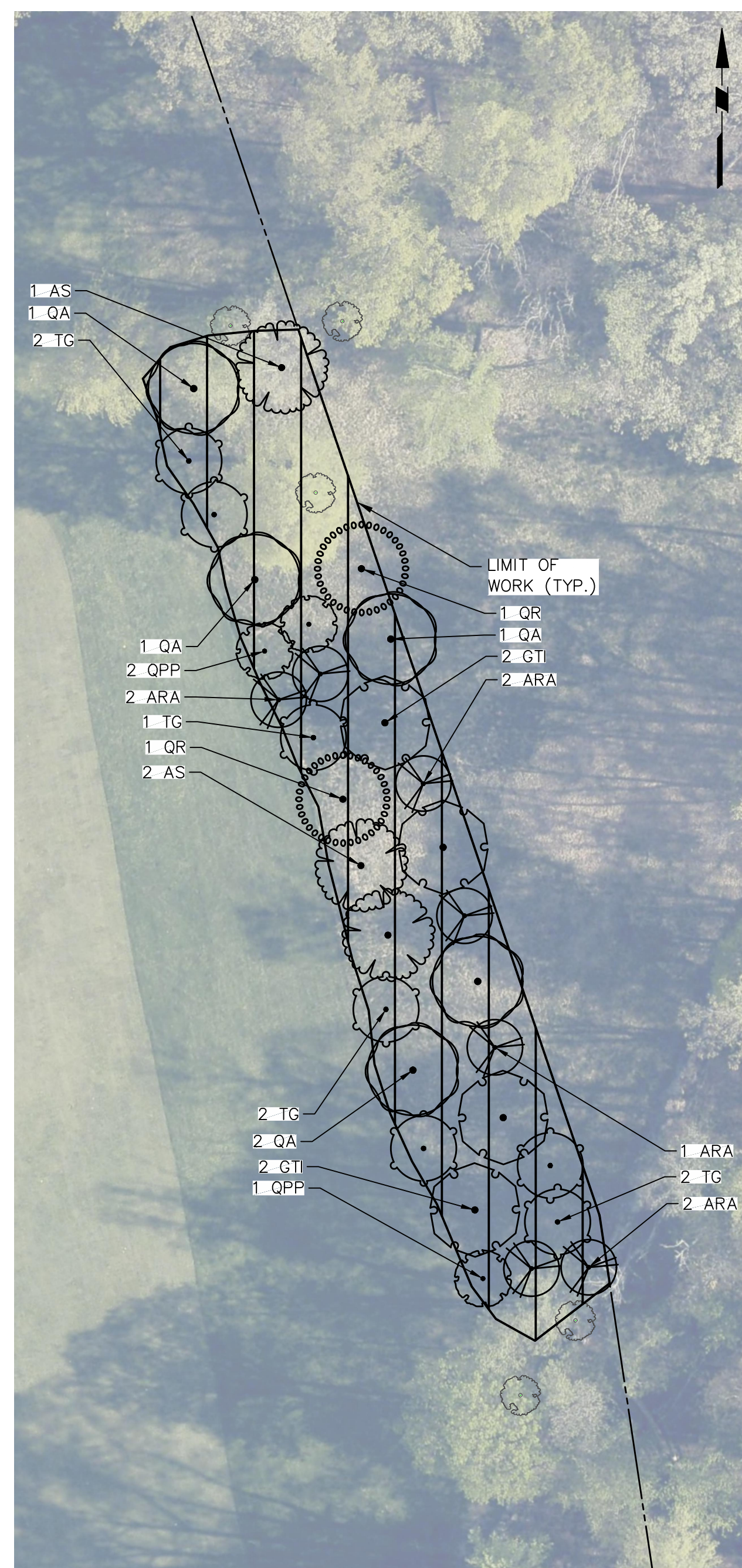
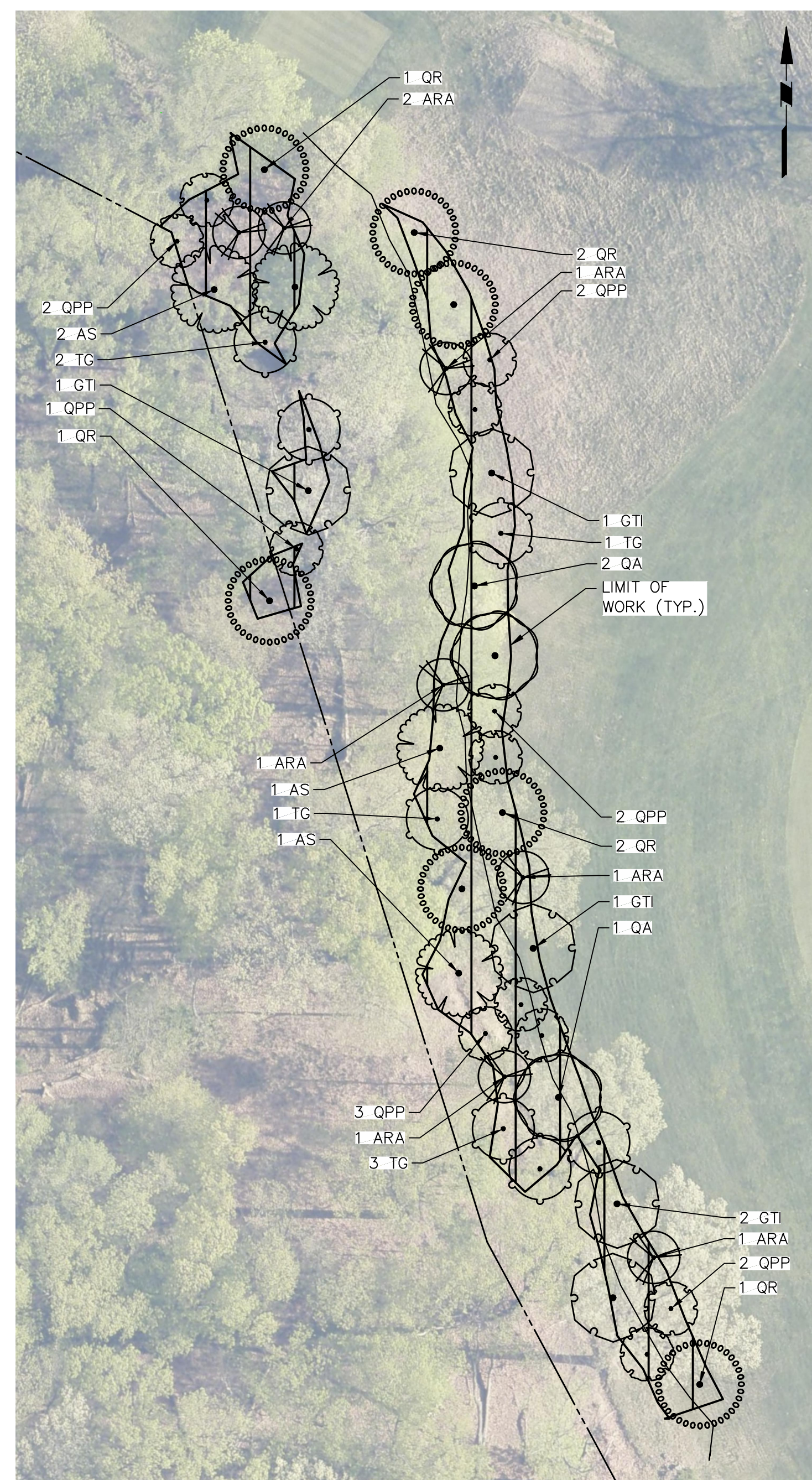
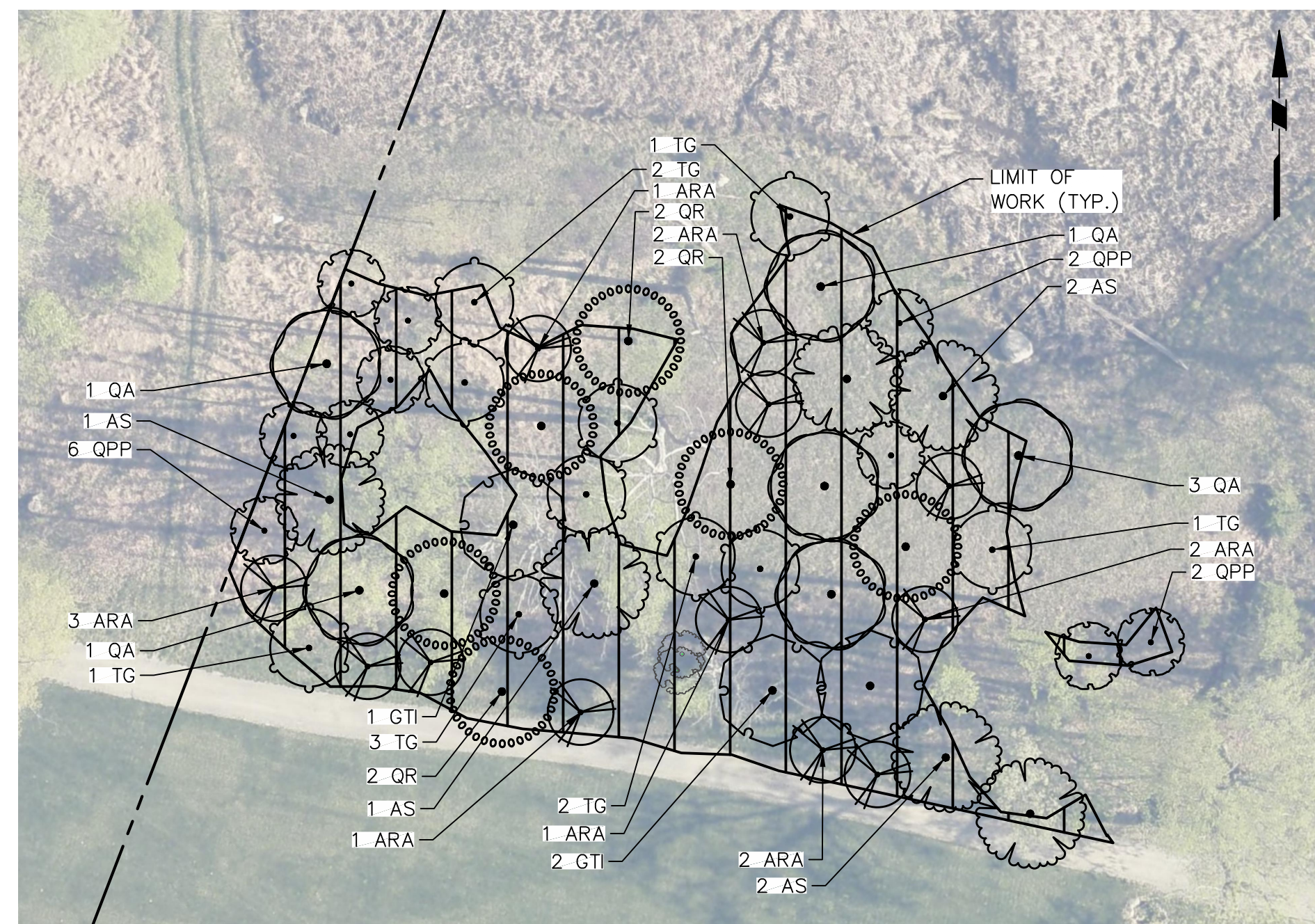
LANGAN
Langan Engineering and
Environmental Services, LLC
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ Certificate of Authorization No. 24GA27996400

Project
CRESTMONT COUNTRY CLUB TREE RESTORATION
BLOCK No. 174, LOT No. 1.01
TOWNSHIP OF WEST ORANGE

ESSEX COUNTY NEW JERSEY
Drawing Title

TREE RESTORATION PLAN I

Project No. 101049802	Drawing No. LP201
Date FEBRUARY 12, 2026	
Drawn By LCZ	
Checked By DB/MF	Sheet 2 of 4



- GENERAL NOTES:**
1. BACKGROUND SITE BOUNDARY AND PARTIAL TOPOGRAPHIC SURVEY INFORMATION REFERENCED FROM SURVEY PLANS TITLED "RIGHT OF WAY & PARTIAL SITE SURVEY," PREPARED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, LLC, DATED FEBRUARY 11, 2026. THE EXTENTS OF THE PARTIAL TOPOGRAPHIC SURVEY INCLUDES THE NORTHERN PORTION OF THE SUBJECT PROPERTY FROM THE EXISTING CLUBHOUSE BUILDING NORTHWARD TO EAGLE ROCK AVENUE; REFER TO THE SURVEY PLANS FOR THE EXTENTS.
 2. HORIZONTAL DATUM REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATES (NAD 83).
 3. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 4. PROPOSED IMPROVEMENTS AND DESIGN INFORMATION WITHIN THE COUNTY RIGHT-OF-WAY REFERENCED FROM PLANS TITLED "EAGLE ROCK AVENUE ROADWAY IMPROVEMENT PLANS," PREPARED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, LLC.
- REFERENCE NOTE:**
AERIAL IMAGERY OBTAINED FROM EAGLEVIEW. IMAGE CAPTURED ON APRIL 28, 2025.

REFERENCE NOTE:
AERIAL IMAGERY OBTAINED FROM EAGLEVIEW. IMAGE CAPTURED ON APRIL 28, 2025.

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Date	Description	No.

REVISIONS

STATE OF NEW JERSEY
TREASURER DANIEL L. BADGLE
000977
N.J. LICENSED LANDSCAPE ARCHITECT
LICENSE NO. 21AS00097700

SIGNATURE _____ DATE _____ SIGNED _____

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NJ Certificate of Authorization No. 24GA27996400

Project

**CRESTMONT COUNTRY
CLUB TREE
RESTORATION**

BLOCK No. 174, LOT No. 1.01
TOWNSHIP OF WEST ORANGE

ESSEX COUNTY	NEW JERSEY
Drawing Title	

TREE RESTORATION PLAN II

Project No.	Drawing No.
101049802	LP202
Date	
FEBRUARY 12, 2026	
Drawn By	
LCZ	Sheet 3 of 4
Checked By	
DB/MF	

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GENERAL LANDSCAPE PLANTING NOTES

1. NAMES OF PLANTS AS DESCRIBED ON THIS PLAN CONFORM TO THOSE GIVEN IN "STANDARDIZED PLANT NAMES", 1962 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF PLANT VARIETIES NOT INCLUDED THEREIN CONFORM TO NAMES GENERALLY ACCEPTED IN NURSERY TRADE.
2. STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION.
3. NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET PLUMS AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANTS' ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME SPECIES AND SPECIFIED AS THE SAME SIZE SHOULD BE SIMILAR IN SHAPE, COLOR, AND HABIT. THE LANDSCAPE ARCHITECT MAY REQUEST PLANT MATERIAL THAT DOES NOT CONFORM TO THE TYPICAL OR SPECIFIED HABIT OF THAT SPECIES. ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD. ALL PLANTS MUST MEET ALL REQUIREMENTS SPECIFIED. ANY TREE THAT LOSES THE MAIN LEADER SHALL BE REPLACED.
4. THE BACKFILL MIXTURE AND SOIL MIXES TO BE INSTALLED PER THE SPECIFICATIONS.
5. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND SUBGRADE DRAINAGE OR PERCOLATION CHARACTERISTICS, WHETHER THE SUBGRADE SOILS ARE EXISTING TO REMAIN OR IMPORTED AND PLACED. CONTRACTOR TO ENSURE POSITIVE VERTICAL DRAINAGE THROUGHOUT PLANTED AREAS. DISCREPANCIES SHALL BE ADDRESSED WITH THE PROJECT LANDSCAPE ARCHITECT PRIOR TO PURCHASING PLANT MATERIALS.
6. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE FINISH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.
7. ALL PLANT INSTALLATIONS SHALL BE COMPLETED EITHER BETWEEN APRIL 1 - JUNE 15 OR SEPTEMBER 1 - NOVEMBER 1, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. SEE LAWN SEEDING DATES IN SEEDING NOTES.
8. ALL FENCE AND GUIDE RAIL INSTALLATIONS SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY LANDSCAPE PLANTING, LAWN AND GRASSES, OR IRRIGATION WORK.
9. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY AND SEWER LINES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF CONSTRUCTION. NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.
10. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA (2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD (3) TO REPAIR ANY AND ALL DAMAGE TO EXISTING UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
11. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND OWNER, TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL.
12. LANDSCAPE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DIRECT THE CONTRACTOR IN THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED.
13. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION. THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO FURTHER REVIEW PLANT MATERIALS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEM, INJURIES, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME. DURING PROGRESS OF WORK, THE CONTRACTOR SHALL REMOVE DEFECTIVE PLANT MATERIALS IMMEDIATELY FROM PROJECT SITE AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
14. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, MISSING, 25% OR MORE DEAD, WHICH DO NOT DEVELOP FROM PLANTING STOCK, THAT APPEAR UNEALTHY OR UNSOUND, AND/OR HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES DEAD, OR REJECTED FOR ANY OTHER REASON PRIOR TO SEEDING, SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS.
16. DELIVERY, STORAGE, AND HANDLING:
 - A. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING HEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETRIORATION DURING DELIVERY, AND WHILE STORED AT SITE.
 - B. TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. DO NOT BEND OR BING-THE TREES OR SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING TRANSPORT. DO NOT DROP BALLED AND BURLAPPED STOCK DURING DELIVERY OR HANDLING.
 - C. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL PLANTS SHALL BE WRAPPING AND BUNDLING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE PLANTS AT THE TIME OF PLANTING. IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET SHALL BE CUT AND FOLDED DOWN 8 INCHES INTO THE PLANTING HOLE. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO LOCATIONS.
 - D. THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, THE CONTRACTOR SHALL SET TREES AND SHRUBS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP TREE MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.
17. ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL THE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ALL CLUMPS AND UNEVEN SURFACES PRIOR TO PLANTING OR MULCHING.
18. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE LANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURES.
19. CONTRACTOR'S GUARANTEE: ALL PLANTINGS AND PLANTING AREAS SHALL BE PERMANENTLY MAINTAINED. NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE PLANTED IN VIGOROUS GROWING CONDITION FOR A PERIOD OF TWO YEARS FOLLOWING ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, PRUNING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE DURATION OF THE GUARANTEED PERIOD. PLANT MATERIAL FOUND TO BE UNEALTHY, DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
20. THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF-SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.
21. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24- HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY PLANT GROWTH. CONTRACTOR SHALL CONFIRM WATER SAVING WITH OWNER PRIOR TO BID AND INCLUDE ALTERNATE MEANS OF WATERING IF NECESSARY.
22. ON-SITE WATER SHALL BE FURNISHED BY THE CONTRACTOR. HOSE AND OTHER WATERING EQUIPMENT SHALL BE FURNISHED BY THE CONTRACTOR.
23. AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE COMPLETELY REMOVED AND THE BURLAP SHOULD BE PULLED DOWN 1/2" FROM THE ROOT BALL IS EXPOSED. SYNTHETIC BURLAP SHOULD BE COMPLETELY REMOVED AFTER INSTALLATION.
24. ALL TREES MUST BE GUDED OR STAKED IF REQUIRED BY ORNANCE, IF LOCATED ON A SLOPE 3:1 OR GREATER, OR IF THE SITE IS LOCATED IN A HIGH WIND ZONE.
25. ALL EXPOSED GROUND SURFACE THAT ARE NOT PAVED WITH CONTRACT LIMIT LINE, AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A NATURAL MULCH FROM A LOCAL SOURCE HARVESTED IN A SUSTAINABLE MANNER THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST. MULCH SHALL BE A FIBROUS SHREDED HARDWOOD MULCH. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT COLLAR.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. FOR ANY DISCREPANCIES BETWEEN THE PLANT SCHEDULE AND PLANTING PLAN THE GRAPHIC QUANTITY SHOWN SHALL GOVERN.
27. LANDSCAPE PUNCH LIST SITE VISITS TO BE PERFORMED BY THE PROJECT LANDSCAPE ARCHITECT. IF UNDER CONTRACT FOR SUCH WORK, WILL NOT BE SCHEDULED UNTIL CONFIRMATION IS RECEIVED THAT ALL PROPOSED LANDSCAPE ITEMS HAVE BEEN INSTALLED, OR DISCREPANCIES NOTED IN THE PRIOR PUNCH LIST REPORT HAVE BEEN CORRECTED. THE PUNCH LIST SITE VISIT WILL THEN BE PERFORMED WITHIN 10 BUSINESS DAYS.
28. CONTRACTOR SHALL ASSESS THE NEED FOR DEEP PROTECTION ON SITE. IF DEEMED NECESSARY, BRASH AND ORNAMENTAL TREES SHALL BE PROTECTED THROUGHOUT WINTER WITH SPIRAL WRAP TREE GUARDS, OR APPROVED EQUIP. PROTECTION LENGTH TO BE FROM BELOW THE LOWEST BRANCH DOWN TO WITHIN A FEW INCHES OF THE GROUND. THE GUARDS CAN BE REMOVED IN SPRING AND SAVED FOR RE-INSTALLATION DURING FOLLOWING WINTERS AS PART OF A MAINTENANCE PROGRAM.
29. ALL SLOPES 3:1 OR GREATER AND ALL SOE SLOPES OF BASINS SHALL REQUIRE AN EROSION CONTROL BLANKET: ERONET SC100 BY NORTH AMERICAN GREEN, OR APPROVED EQUAL.

PLANTING SOIL SPECIFICATIONS

1. PLANTING SOIL, ALTERNATELY MAY BE REFERRED TO AS TOPSOIL, SHOULD BE FRIABLE, FERTILE, WELL DRAINED, FREE OF DEBRIS, TOWNS, TRASH AND STONES OVER 1/2" DIA., IT SHOULD HAVE A HIGH ORGANIC CONTENT SUITABLE TO SUSTAIN HEALTHY PLANT GROWTH AND SHOULD LOOK AESTHETICALLY PLEASING HAVING NO NOXIOUS ODORS.
2. PLANTING SOIL:
 - A. REUSE SURFACE SOILS STOCKPILED ON SITE, VERIFYING COMPLIANCE WITH PLANTING SOIL CRITERIA. IN THIS SPECIFICATION THROUGH TESTING: CLEAN SURFACE SOIL OF ALL ROOTS, PLANTS, SOIL, AND GRAVEL OVER 1" IN DIAMETER AND DELETERIOUS MATERIALS. ON-SITE SOILS ARE TO BE USED FOR PROPOSED PLANTING. THE CONTRACTOR SHALL DEMONSTRATE, THROUGH SOIL TESTING, THAT ON-SITE SOILS MEET THE SAME CRITERIA AS INDICATED IN NOTES PLANTS AND SPECIFICATIONS.
 - B. SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN TOPSOIL AND PLANTING SOIL QUANTITIES ARE INSUFFICIENT. OBTAIN SOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BODIES, MARSHES OR CONTAMINATED SITES.
 - C. AT A MINIMUM, PLANTING SOILS MEETING THESE SPECIFICATIONS MAY BE OBTAINED FROM WECARE DENALI, P-888-325-1522, NATURCYCLE, P-315-707-8955, OR APPROVED EQUAL.
3. CONTRACTOR SHALL TEST SOILS AND FURNISH SAMPLES UPON REQUEST. PACKAGED MATERIALS SHALL BE UNOPENED BAGS OR CONTAINERS, EACH BEARING A NAME, GUARANTEE, AND TRADEMARK OF THE PRODUCER. MATERIAL COMPOSITION MANUFACTURER'S CERTIFIED ANALYSIS, AND THE WEIGHT OF THE MATERIALS. SOIL OR AMENDMENT MATERIALS SHALL BE STORED ON SITE TEMPORARILY IN STOCKPILES PRIOR TO PLACEMENT AND SHALL BE PROTECTED FROM INTRUSION OF CONTAMINANTS AND EROSION. AFTER MIXING, SOIL MATERIALS SHALL BE COVERED WITH A TARPULIN UNTIL TIME OF ACTUAL USE.
4. ALL PLANTING SOILS SHALL BE SUBMITTED FOR TESTING TO THE STATE COOPERATIVE EXTENSION SERVICE, OR APPROVED EQUAL, PRIOR TO DELIVERY TO THE SITE. CONTRACTOR SHALL FURNISH SOIL SAMPLES AND SOIL TEST RESULTS TO LANDSCAPE ARCHITECT OR OWNER AT A RATE OF ONE SAMPLE PER 500 CUBIC YARDS TO ENSURE CONSISTENCY ACROSS THE TOTAL VOLUME OF PLANTING SOIL REQUIRED. TEST RESULTS SHALL EVALUATE FOR ALL CRITERIA LISTED IN THIS SPECIFICATION. IF TESTING INDICATES MATERIALS THAT THE SOILS ARE DEFICIENT IN ANY MANNER AND MAY BE CORRECTED BY ADDING AMENDMENTS, CONTRACTOR SHALL FOLLOW STATED RECOMMENDATIONS FOR SOIL IMPROVEMENT. FURNISH SUBMITTALS FOR ALL AMENDMENTS PRIOR TO DELIVERY OF SOIL TO THE PROJECT SITE.

- THE FOLLOWING TESTING SHOULD BE PERFORMED AND RESULTS GIVEN TO THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY, BEFORE INSTALLATION.
- A. WHERE A PERMANENT IRRIGATION SYSTEM IS PLANNED:
 - a. PARTICLE SIZE ANALYSIS - SANDY LOAM, 60%-70% SAND, 25%-40% SILT, AND 5%-15% CLAY.
 - b. GRAVEL CONTENT (2mm): LESS THAN 10%.
 - c. FERTILITY ANALYSIS: pH (6.0-6.8), SOLUBLE SALTS (0.2 to 1.0 MMHO/CM), NITRATE, PHOSPHATE, POTASSIUM, CALCIUM AND MAGNESIUM.
 - d. ORGANIC MATTER CONTENT: 2.5-5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS.
 - e. TOXIC SUBSTANCE ANALYSIS
 - f. MATERIAL DRAINAGE RATE: 60% PASSING IN 2 MINUTES, 40% RETAINED
 - g. NOT MORE THAN 1% OF MATERIAL SHALL BE RETAINED BY A #10 SIEVE
 - B. WHERE NO PERMANENT IRRIGATION IS PLANNED:
 - a. PARTICLE SIZE ANALYSIS - LOAM, 40%-60% SAND, 25%-60% SILT, AND 5%-20% CLAY.
 - b. GRAVEL CONTENT (2mm): LESS THAN 10%.
 - c. FERTILITY ANALYSIS: pH (6.0-6.8), SOLUBLE SALTS (0.2 to 1.0 MMHO/CM), NITRATE, PHOSPHATE, POTASSIUM, CALCIUM AND MAGNESIUM.
 - d. ORGANIC MATTER CONTENT: 2.5-5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS.
 - e. TOXIC SUBSTANCE ANALYSIS
 - f. MATERIAL DRAINAGE RATE: 60% PASSING IN 2 MINUTES, 40% RETAINED
 - g. NOT MORE THAN 1% OF MATERIAL SHALL BE RETAINED BY A #10 SIEVE
- C. SOILS FOR BASKING (BIO-RETENTION, INFILTRATION, ETC.) AND BIOSWALS SHALL BE TESTED FOR COMPLIANCE WITH CIVIL ENGINEERING SPECIFICATIONS, OR OTHERWISE THE BEST MAINTENANCE PRACTICES MANUAL FOR THE RESPECTIVE STATE IN WHICH THE PROJECT IS LOCATED.

- A. SOIL AMENDMENT FOR PLANT MATERIAL:
 - a. IF SOIL ORGANIC CONTENT IS INADEQUATE, SOIL SHALL BE AMENDED WITH COMPOST OR FERTILIZER. WEED PREVENTION, INFILTRATION, ETC.) AND BIOSWALS SHALL BE COMPOSTED, pH RANGE OF 6-8, MOISTURE CONTENT 35-55% BY WEIGHT 100% PASSING THROUGH 1" SIEVE. SOLUBLE SALTS LESS THAN 0.5 MM HG/CM. MEETING ALL APPLICABLE ENVIRONMENTAL CRITERIA FOR CLEAN FILL.
 - b. ORGANIC MATTER AS A SOIL AMENDMENT: LEAF MOULD WITH 60-90% ORGANIC CONTENT BY WEIGHT, SHREDED LEAF LITTER, COMPOSTED FOR A MINIMUM OF 1 YR. SHOULD BE FREE OF DEBRIS, TWINE, AND OTHER CHIPS OR STICKS.
 - c. SOIL IN BEDS AND PLANTING ISLANDS OTHER THAN BACKFILL MATERIAL AND TOPSOIL SHOULD BE FRIABLE, WELL DRAINED, AND FREE OF DEBRIS, INCLUDING STONES AND TRASH.
- B. AMENDMENTS FOR BACK FILL IN TREE AND SHRUB PITS:
 - a. GROUND LIMESTONE (WITH A MIN. OF 80% OF CALCIUM AND MAGNESIUM CARBONATES) USED PENDING RESULTS OF SOIL ANALYSIS.
 - b. ADJUST pH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM. LOWER pH USING ELEMENTAL SULFUR ONLY. PEAT MOSS OR COPPER SULFATE MAY NOT BE USED. GROUND LIMESTONE AS A SOIL AMENDMENT MATERIAL WILL ONLY BE USED PENDING RESULTS OF SOIL ANALYSIS. PROVIDE WITH MINIMUM 80% CALCIUM AND MAGNESIUM CARBONATES AND SHALL PASS 100% PASSING THE 10 MESH SIEVE, MINIMUM 90% PASSING 20 MESH SIEVE, AND MINIMUM 60% PASSING 100 MESH SIEVE.
- C. WHERE PLANTING AREAS ARE PROPOSED FOR FORMER PAVED OR GRAVEL AREAS, BEDS SHALL BE EXCAVATED TO A MINIMUM 30" DEPTH AND, AT A MINIMUM, BE BACKFILLED WITH BOTTOM LAYER OF SANDY LOAM (ORGANIC CONTENT LESS THAN 2% OVER WHICH TOPSOIL AND PLANTING SOILS WILL BE PLACED AT DEPTHS INDICATED IN PLANS, DETAILS AND NOTES).

- A. CLEAN SOIL FILL IN LANDSCAPE AREAS:
 - a. LANDSCAPE FILL MATERIAL, BELOW PLANTING AREAS, SHALL HAVE THE PHYSICAL PROPERTIES OF A SANDY LOAM WITH AN ORGANIC CONTENT OF LESS THAN 2% AND A PH BETWEEN 5-7.
- B. SOIL PLACEMENT:
 - a. CONTRACTOR TO PROVIDE SIX (6") MINIMUM DEPTH PLANTING SOIL LAYER IN LAWN AREAS, TWELVE INCHES (12") MINIMUM DEPTH PLANTING SOIL LAYER IN GROUNDCOVER AND PERENNIAL AREAS, EIGHTEEN INCHES (18") MINIMUM DEPTH PLANTING SOIL LAYER IN SHRUB AREAS, AND THIRTY-SIX INCHES (36") MINIMUM DEPTH PLANTING SOIL LAYER IN TREE PLANTING AREAS.
 - b. CONTRACTOR TO PROVIDE SUBSOILS TO A MINIMUM DEPTH OF 6 INCHES. THOROUGHLY MIX A 6 INCH DEPTH LAYER OF PLANTING SOIL INTO THE SUBSOIL PRIOR TO PLACING PLANTING SOIL. AT THE DEPTHS INDICATED ABOVE, PLANTING SOIL SHALL BE PLACED IN 12-18" LIFTS AND WATER THOROUGHLY BEFORE INSTALLING NEXT LIFT. REPEAT UNTIL DEPTHS AND FINISH GRADES HAVE BEEN ACHIEVED. NO SOILS SHALL BE PLACED IN A FROZEN OR MUDDY CONDITION.
 - c. PLANTING SOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL MOUND REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON-SITE PLANTING SOIL UTILIZED IN ALL PLANTING AREAS.
- C. SOIL CONDITIONS:
 - a. ADJUST pH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM. LOWER pH USING ELEMENTAL SULFUR ONLY. PEAT MOSS OR COPPER SULFATE MAY NOT BE USED. GROUND LIMESTONE AS A SOIL AMENDMENT MATERIAL WILL ONLY BE USED PENDING RESULTS OF SOIL ANALYSIS. PROVIDE WITH MINIMUM 80% CALCIUM AND MAGNESIUM CARBONATES AND SHALL PASS 100% PASSING THE 10 MESH SIEVE, MINIMUM 90% PASSING 20 MESH SIEVE, AND MINIMUM 60% PASSING 100 MESH SIEVE.
 - b. ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- D. SOIL MODIFICATIONS (PENDING RESULTS OF SOIL ANALYSIS):
 - a. THOROUGHLY TILL ORGANIC MATERIAL (LEAF COMPOST) INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.0. PEAT MOSS MAY NOT BE USED AS ORGANIC WATTER AMENDMENT.
 - b. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR CYPRESS. COARSE SAND MAY BE USED IF ENOUGH IS AVAILABLE TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE MIX. MIX IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES.
 - c. MODIFY EXTREMELY SANDY SOILS (MORE THAN 80% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

LANDSCAPE MAINTENANCE NOTES

1. MAINTENANCE OPERATIONS BEFORE APPROVAL:
 - A. PLANT CARE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS SATISFACTORILY INSTALLED AND SHALL CONTINUE THROUGHOUT THE LIFE OF THE CONTRACT UNTIL FINAL ACCEPTANCE OF THE PROJECT.
 - B. CARE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR OTHER MEANS, REPAIRING AND RESHAPING WATER RINGS OR SAUCERS, MAINTAINING STAKES AND GUYS AS ORIGINALLY INSTALLED, WATERING WHEN NEEDED OR DIRECTED, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.
 - C. CONTRACTOR SHALL REMOVE AND REPLACE ALL DEAD, DEFECTIVE AND/OR REJECTED PLANTS AS REQUIRED BEFORE FINAL ACCEPTANCE.
2. MAINTENANCE DURING CONSTRUCTION:
 - A. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING. PLANTS SHALL BE WATERED, MULCHED, WEEDED, PRUNED, SPRAYED, FERTILIZED, CULTIVATED, AND OTHERWISE MAINTAINED UNTIL PROVISIONAL ACCEPTANCE. PLANTS SHALL BE WATERED WHEN NEEDED OR DIRECTED, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.
 - B. IF A SUBSTANTIAL NUMBER OF PLANTS ARE SICKLY OR DEAD AT THE TIME OF INSPECTION, ACCEPTANCE SHALL NOT BE GRANTED AND THE CONTRACTOR'S RESPONSIBILITY FOR MAINTENANCE OF ALL PLANTS SHALL BE EXTENDED FROM THE TIME REPLACEMENTS ARE MADE OR EXISTING PLANTS ARE DEEMED ACCEPTABLE BY THE LANDSCAPE ARCHITECT.
 - C. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE SPECIFIED ON THE PLANT LIST. PLANTS THAT ARE SICKLY OR DEAD AT THE TIME OF INSPECTION SHALL BE REPLACED WITHIN 14 DAYS. THE COST SHALL BE BORNE BY THE CONTRACTOR. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART, VANDALISM, PHYSICAL DAMAGE BY ANIMALS, VEHICLES, ETC., AND LOSSES DUE TO CURTAILMENT OF WATER BY LOCAL AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE PHYSICAL DAMAGE.
 - D. PLANTS SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS AFTER INSPECTION AND PROVISIONAL ACCEPTANCE.
 - E. AT THE END OF THE ESTABLISHMENT PERIOD, INSPECTION SHALL BE MADE AGAIN. ANY PLANT REMOVED UNDER THIS PROVISIONAL ACCEPTANCE SHALL BE REPLACED WITHIN 14 DAYS. LANDSCAPE ARCHITECT OR OWNER SHALL BE REMOVED FROM THE SITE AND REPLACED DURING THE NORMAL PLANTING SEASON.

- A. LAWN MAINTENANCE:
 - A. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH PORTION OF LAWN IS PLANTED AND CONTINUE FOR 8 WEEKS AFTER ALL LAWN PLANTING IS COMPLETED.
 - B. WATER TO KEEP SURFACE SOIL MOIST, REPAIR WASHED OUT AREAS BY FILLING WITH TOPSOIL, LIMING, FERTILIZING AND RE-SEEDING. MOW TO 2 1/2" - 3 INCHES AFTER GRASS REACHES 3 1/2 INCHES IN HEIGHT, AND MOW FREQUENTLY ENOUGH TO KEEP GRASS FROM EXCEEDING 3 1/2 INCHES. WEED BY LOCAL SPOT APPLICATION OF SELECTIVE HERBICIDE ONLY AFTER GRASS IS WELL-ESTABLISHED.

LAWN SEED MIX

1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 1/2" DIAMETER.
2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
3. SEEDING RATE AT 120 POUNDS PER ACRE:

10% DEEPLUE KENTUCKY BLUEGRASS
25% DAKOTA TALL FESCUE
25% TALL FESCUE
10% FRONTIER PERENNIAL RYEGRASS
4. SEEDING DATES FOR THIS MIXTURE SHALL BE BETWEEN MARCH 15TH TO MAY 15TH OR SEPT 1ST TO OCTOBER 30TH.
5. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO ORGATE SEEDING AREA UNTIL A STAND OF COVER IS ESTABLISHED AND FOUND ACCEPTABLE TO THE OWNER. SEE LAWN WATERING SCHEDULE NOTES.

LAWN WATERING SCHEDULE (seed)

- THE FOLLOWING WATERING SCHEDULE COVERS ROUGHLY 8 WEEKS TO ESTABLISH A HEALTHY STAND OF GRASS FROM SEED. THE CONTRACTOR SHALL BE OBLIGATED TO ENSURE A HEALTHY STAND OF GRASS AT THE END OF THE MAINTENANCE/BOND PERIOD, ANY BARE OR DEAD AREAS IN THE LAWN SHALL BE PREPARED, RESEEDED AND REESTABLISHED PRIOR TO THE END OF THE MAINTENANCE/BOND PERIOD AND TO THE SATISFACTION OF THE PROJECT LANDSCAPE ARCHITECT AND THE OWNER.
- IMPORTANT ASPECTS TO ATTAINING AND SUSTAINING A HEALTHY STAND OF GRASS ARE THE INSTALLATION OF TOPSOIL, SEED BED PREPARATION, ATTAINING OPTIMAL pH FOR THE INTENDED PLANT SPECIES, FERTILIZING, MULCH COVERING, AND SUFFICIENT WATERING PER THESE NOTES AND/OR PROJECT SPECIFICATIONS.
1. SEEDING SHALL BE DONE DURING THE SEASONS SPECIFIED IN THE LAWN SEED MIX NOTES AND/OR PROJECT SPECIFICATIONS.
 2. AFTER THE SEEDBED IS PREPARED, SEED IS INSTALLED, AND MULCH IS APPLIED, WATER LIGHTLY TO KEEP THE TOP 2 INCHES OF SOIL CONSISTENTLY MOIST, NOT SATURATED. AT 12" DEPTH SHOULD WATER BE APPLIED TO THE POINT OF RUNOFF OR THE DISPLACEMENT OF SEED.
 3. DEPENDING ON SOIL TEMPERATURES, IT MAY TAKE SEVERAL WEEKS FOR GERMINATION TO OCCUR. DIFFERENT SPECIES WITHIN THE MIX GERMINATE AT DIFFERENT TIMES AND THEREFORE CONTRACTOR SHOULD CONTINUE THE LIGHT WATERING AS DESCRIBED ABOVE, UNTIL THERE IS AT LEAST 2 INCHES OF GROWTH THROUGHOUT.
 4. AT THIS POINT, WATERING FREQUENCY MAY BE REDUCED TO EVERY 3 TO 5 DAYS. WATER SHALL BE APPLIED TO MET A 6 INCH MINIMUM SOIL DEPTH TO PROMOTE HEALTHY DEEP ROOTS.
 5. BEGIN MOWING ONCE PER WEEK AFTER THE GRASS HAS REACHED 3 INCHES HEIGHT. MOW TO A HEIGHT OF NO LESS THAN 2-3 INCHES. AFTER 2 TO 3 WEEKS OF MOWING, WATER TO KEEP THE TOP 2 INCHES OF SOIL CONSISTENTLY MOIST, NOT SATURATED. AT 12" DEPTH SHOULD WATER BE APPLIED TO THE POINT OF RUNOFF OR THE DISPLACEMENT OF SEED.

MEADOW SEED MIX:

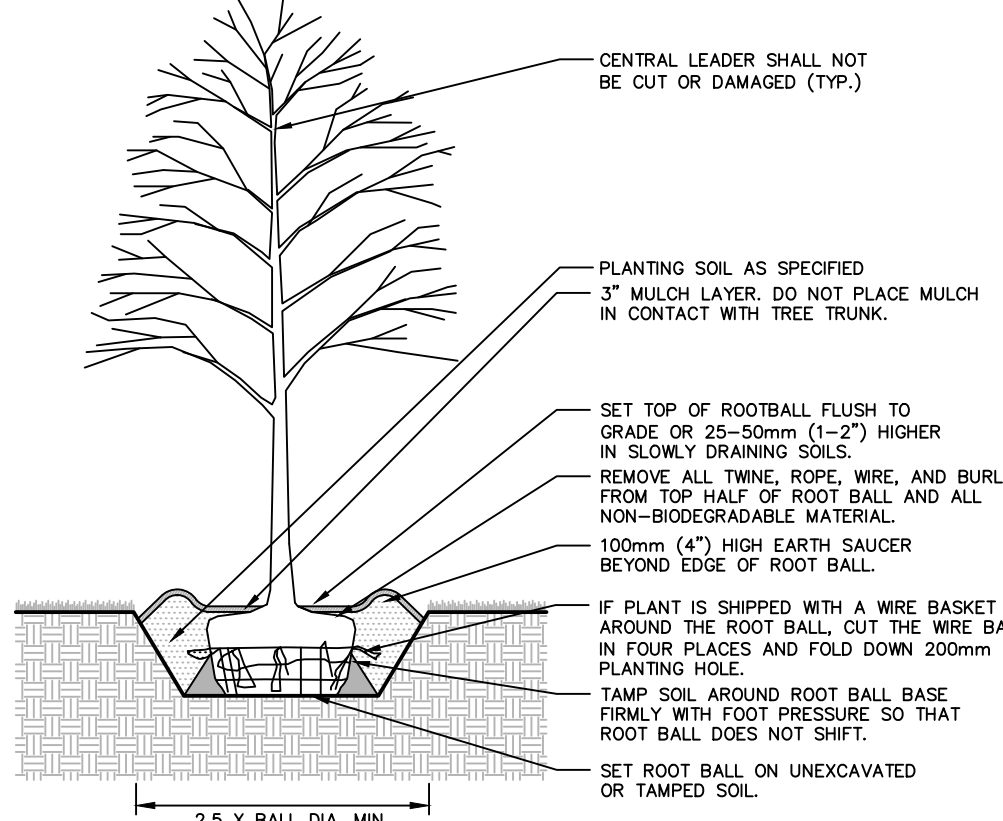
- MEADOW SEED MIX A, ERNST SEED MIX ERNMX-156 "LOW-GROWING MULDOWER/GRASS MIX"
- | | |
|-----------------------------|--------------------|
| FESTUCA OVINA | SHEEP FESCUE |
| ANILUM MULTIFLORUM | ANNUAL RYEGRASS |
| ANTHOTHANUM ODORATUM | SWEET VERNAL GRASS |
| BLUE ORCHY | |
| HEPHERIS MATRONIALIS | DAME'S ROCKET |
| ACHILLEA MILEFOLIUM | PARTRIDGE PEET |
| CHRYSANTHEMUM LEUCANTHEMUM | WHITE YARROW |
| ASTER PRELUTATUS | OX EYE Daisy |
| VERBENA HASTATA, PA ECOTYPE | MOZZER PASTURE |
| BLUE VERNAIN, PA ECOTYPE | BLUE VERNAIN |
| SCILLA TUBEROSA | SCILLA TUBEROSA |
| SPIKED GAYFEATHER | |
- NOTES:
1. SEED AT A RATE OF 20 LBS./ACRE OF 100% PURE LIVE SEED.
 2. FOR SPRING SEEDING, APPLY A NURSE CROP OF OATS AT A RATE OF 20 LBS./ ACRE.
 3. FOR FALL SEEDING, APPLY A NURSE CROP OF BARLEY AT A RATE OF 20 LBS./ ACRE.

- MEADOW SEED MIX B, ERNST SEED MIX ERNMX-127 "RETENTION BASIN MULDOWE MIX"
- | | |
|---|---|
| PANICUM CLANDESTINUM, TIGOA | DEERTONGUE, TIGOA |
| CAREX VULPIDOEA, PA ECOTYPE | FOX SEDGE, PA ECOTYPE |
| ELIMUS VIRGINICUS, MADISON-NY ECOTYPE | VIROGINA WILDOYE, MADISON-NY ECOTYPE |
| CAREX LURIDA, PA ECOTYPE | LURID SEDGE, PA ECOTYPE |
| CAREX SOPORARIA, PA ECOTYPE | WIND BROOM SEDGE, PA ECOTYPE |
| VERBENA HASTATA, PA ECOTYPE | BLUE VERNAIN, PA ECOTYPE |
| JUNCUS EFFUSUS | SOFT RUSH |
| HELIOPSIS HELIANTHUS, PA ECOTYPE | SWAMP MILKWEDD, PA ECOTYPE |
| AGROSTIS PERENNANS, ALBANY PINE BUSH-NY ECOTYPE | AUTUMN BENTGRASS, ALBANY PINE BUSH-NY ECOTYPE |
| SCILLA TUBEROSA, PA ECOTYPE | SWAMP MILKWEDD, PA ECOTYPE |
| SORBUS CYPERINUS, PA ECOTYPE | WIND BROOM SEDGE, PA ECOTYPE |
| ASTER LANCEOLATUS | LANCE LEAVED ASTER |
| ASTER NOVAE-ANGLIAE, PA ECOTYPE | NEW ENGLAND ASTER, PA ECOTYPE |
| ASTER PUNICULUS, PA ECOTYPE | PURPLEHEADED ASTER, PA ECOTYPE |
| LOBELIA SPHEUTICA, PA ECOTYPE | GREAT BLUE LOBELIA, PA ECOTYPE |
| LYCOPUS AMERICANUS, PA ECOTYPE | SQUARE STEMED MONEYFLOWER, PA ECOTYPE |
| MIMULUS RUGOSUS, PA ECOTYPE | |
- NOTES:
1. PLANTS ARE TO BE SPACED EQUIJOSTANT FROM EACH OTHER.
 2. REFER TO PLAN AND SCHEDULE FOR SPACING OF INDIVIDUAL PLANTS.
 3. REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM PLANTS PRIOR TO PLANTING.

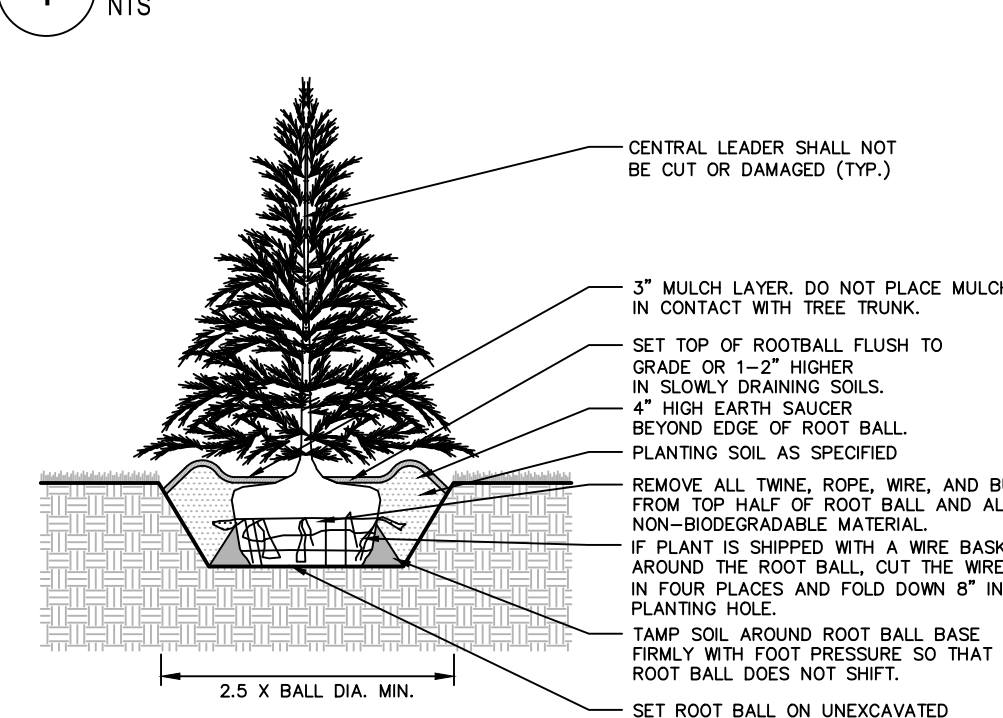
- GENERAL SEEDING NOTES:
1. FINAL SEED MIXTURES, RATES & SPECIES TO BE DETERMINED BASED ON SOO REVIEW.
 2. SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 1) OR THE FALL (SEPTEMBER 1 TO OCTOBER 1).
 3. ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A BROAD-SPECTRUM NON-SELECTIVE HERBICIDE PER MANUFACTURER'S SPECIFICATIONS.
 4. IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL, WHERE APPLICABLE.
 5. CONTINUOUS MOISTURE FOR 4-6 WEEKS MUST BE INSURED TO ALLOW PROPER GERMINATION. SOIL TO REMAIN CONTINUOUSLY MOIST FOR THE TOP 4 INCHES OF TOPSOIL. DO NOT SATURATE.

WEED CONTROL / MAINTENANCE

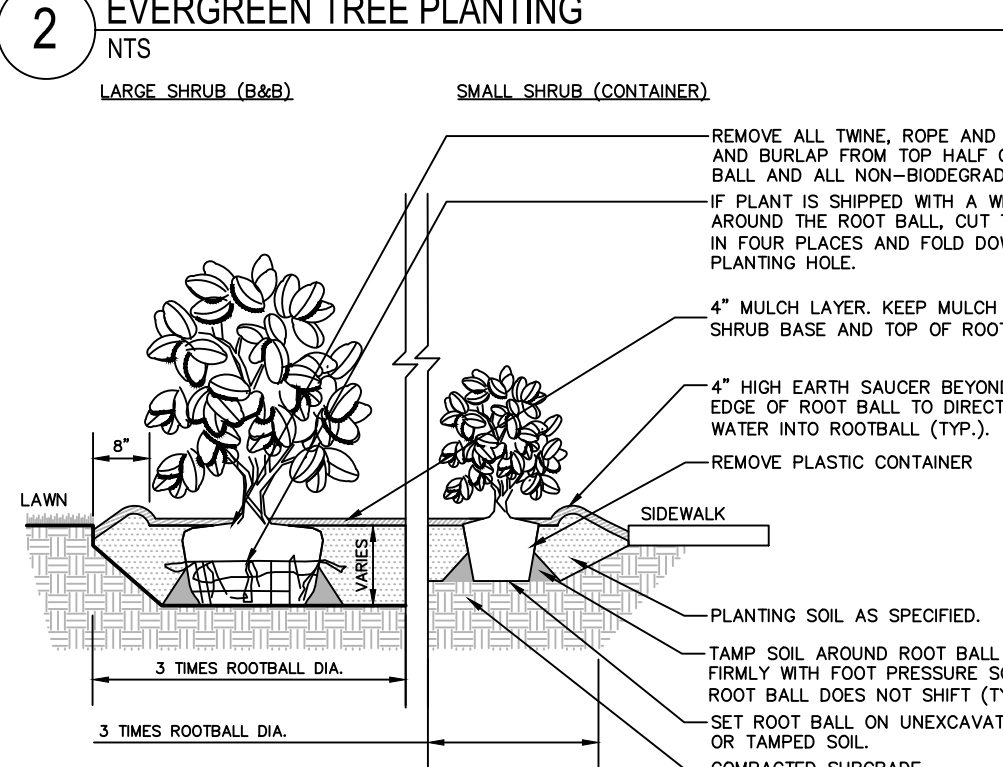
1. DURING THE ESTABLISHMENT YEAR, CONTRACTOR SHALL MOW SEEDING IF WEED HEIGHT EXCEEDS MEADOW MIX HEIGHT. MOW AT A HEIGHT OF 8"-10". DO NOT MOW CLOSE, AS SOME OF THE MEADOW MIX MAY BE DAMAGED.
2. AFTER THE FIRST GROWING SEASON, AND IF MEADOW MIX IS WELL ESTABLISHED, THE MEADOW MIX SHALL BE MOWED ONLY ONCE ANNUALLY. ANNUAL MAINTENANCE MOWING SHALL BE DONE IN LATE WINTER DURING THE MONTH OF MARCH.
3. MOW IN WETLAND AND WETLAND TRANSITION AREAS DURING DRIER SITE CONDITIONS WHEN SOIL DISTURBANCE WILL NOT OCCUR. MAINTENANCE FOR WETLAND AND WETLAND TRANSITION AREAS SHALL OCCUR DURING LATE SUMMER (JULY 15 - AUGUST 15) WHEN THE WATER TABLE IS USUALLY AT ITS LOWEST POINT OF THE YEAR. DO NOT MOW IN WETLAND OR WETLAND TRANSITION AREAS AFTER ESTABLISHMENT OF MEADOW MIX.



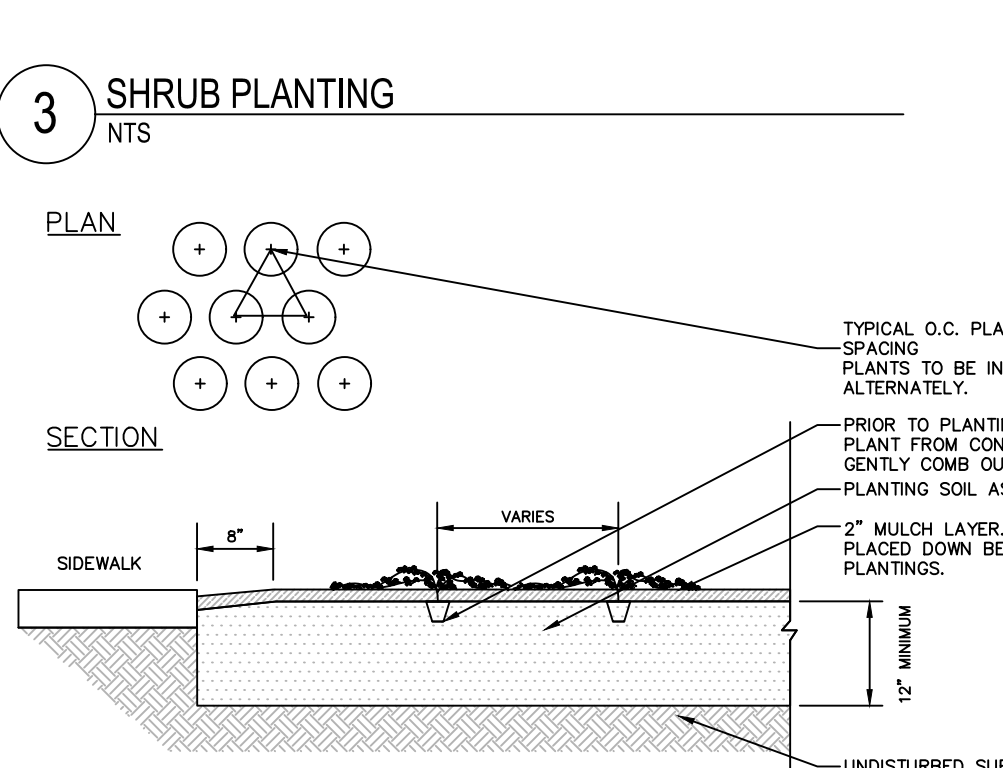
1 DECIDUOUS TREE PLANTING



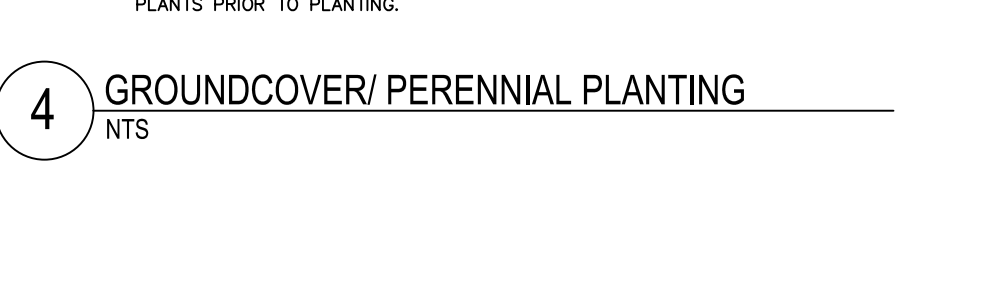
2 EVERGREEN TREE PLANTING



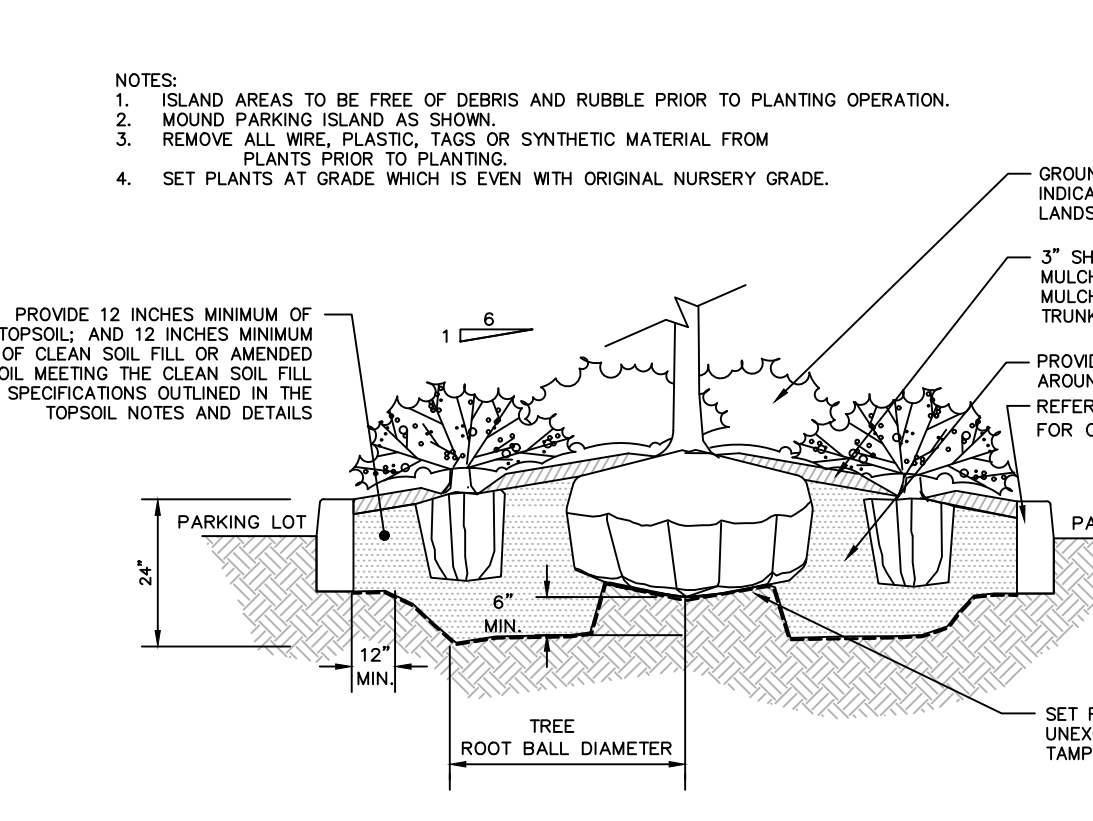
3 SHRUB PLANTING



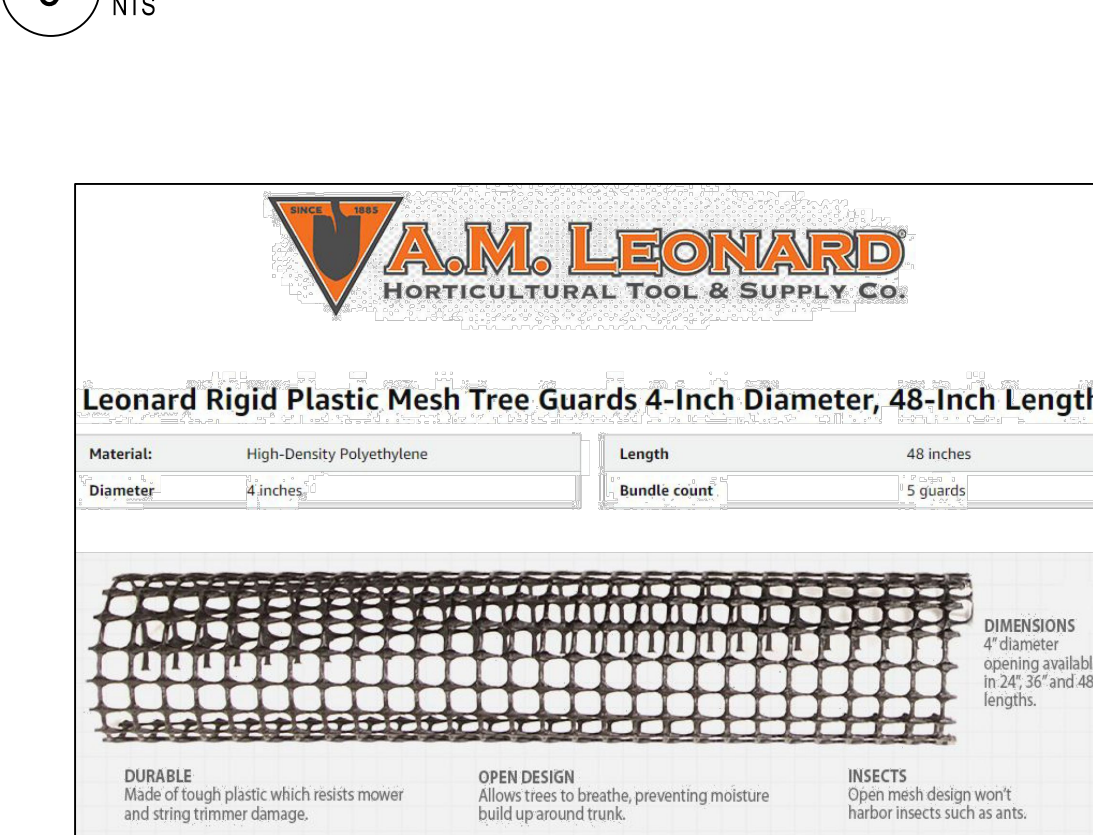
4 GROUNDCOVER/PERENNIAL PLANTING



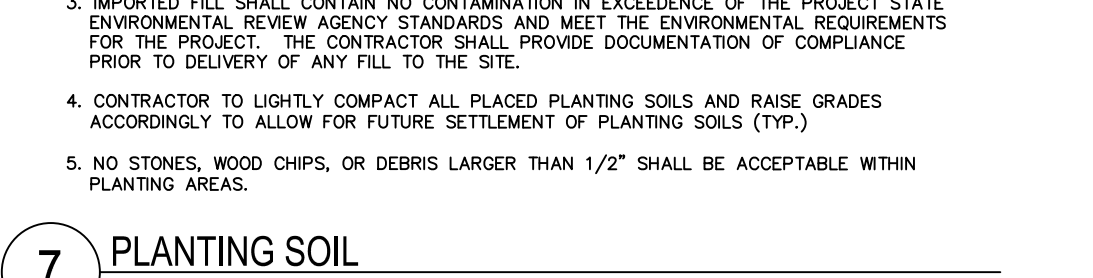
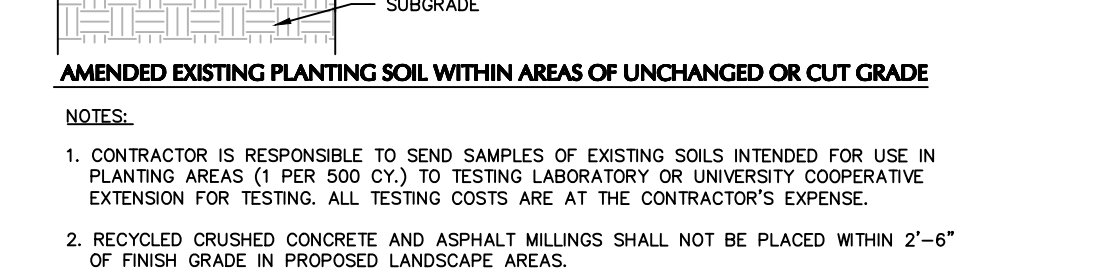
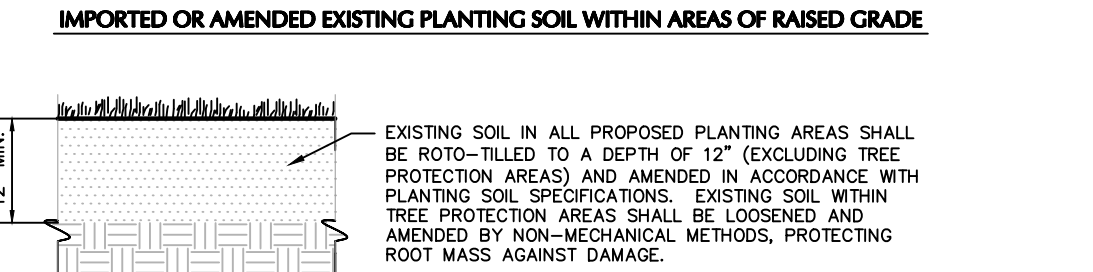
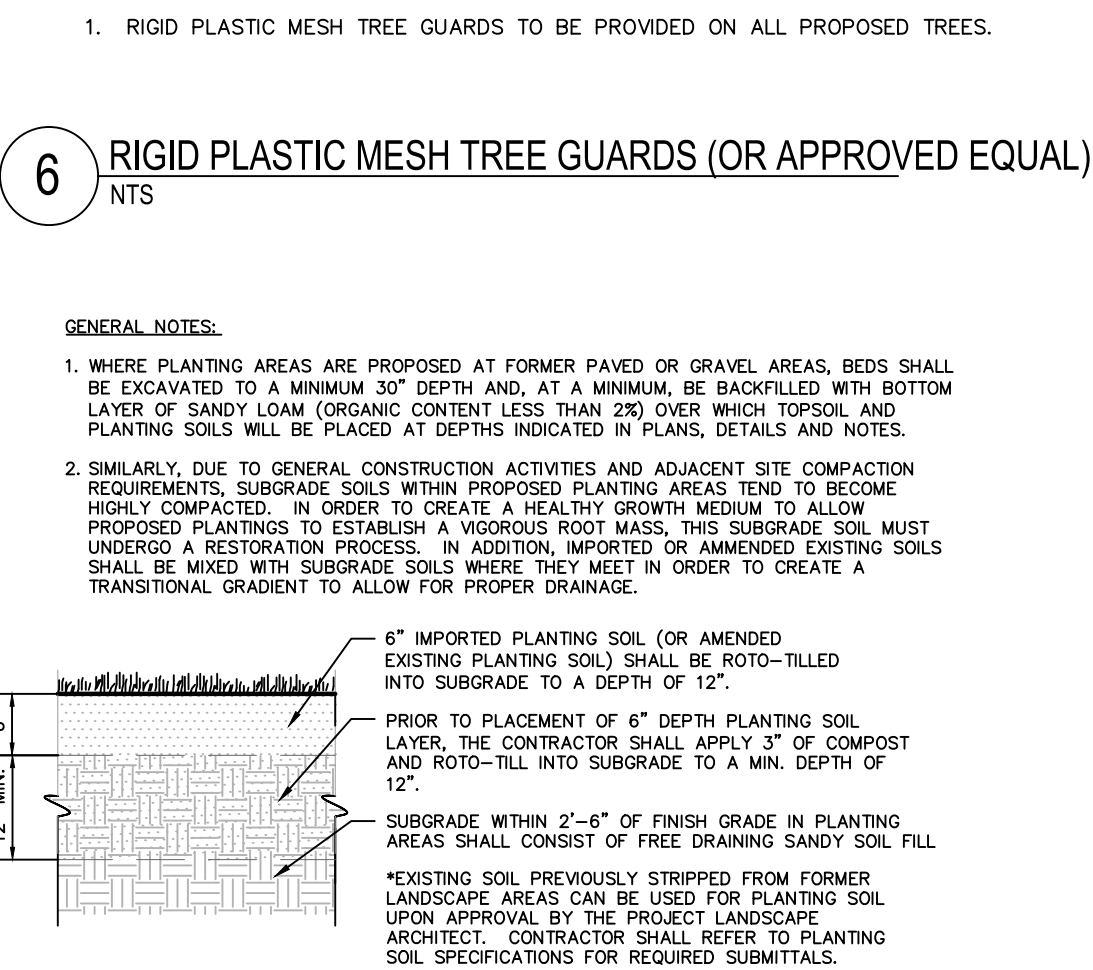
5 PLANTING SOIL



6 PLANTING ISLAND PLANTING



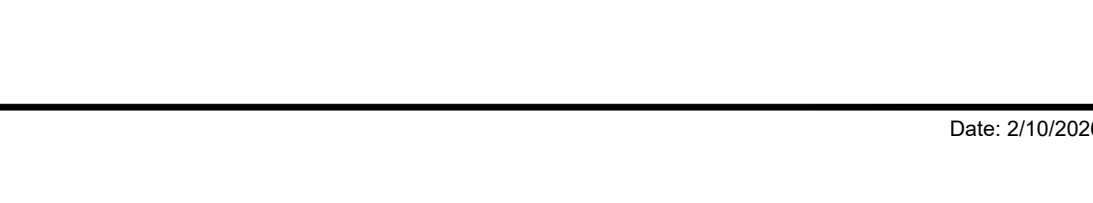
7 RIGID PLASTIC MESH TREE GUARDS (OR APPROVED EQUAL)



11 RIGID PLASTIC MESH TREE GUARDS (OR APPROVED EQUAL)



12 RIGID PLASTIC MESH TREE GUARDS (OR APPROVED EQUAL)



Date	Description	No.
REVISIONS		
		
		
SIGNATURE	DANIEL BADGLEY	DATE SIGNED
N.J. LICENSED LANDSCAPE ARCHITECT LICENSE NO. 21A500097700		