

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338/IL 59	2011-035-1	DUPAGE		
FED.ROAD.DIST.NO.			ILLINOIS	
			CONTRACT 60P42	
			FED. AID PROJECT	

**TRANSMISSION LINE LANDSCAPING  
OVERHEAD OR UNDERGROUND**

THIS SPECIFICATION COVERS THE REQUIREMENTS FOR THE INSTALLATION FLOWERS, PLANTS, TREES, SHRUBS, EVERGREENS AS PART OF THE ELECTRICAL LANDSCAPE WORK ASSOCIATED WITH OVERHEAD AND UNDERGROUND LINES AND RELATED FACILITIES IN ACCORDANCE WITH THE JOB DRAWINGS.

**I. GENERAL**

- 1) THE NUMBER, TYPE AND LOCATION OF PLANTINGS SHALL BE AS SHOWN ON THE JOB OR DIRECTED BY THE ENGINEER.
- 2) THE CONTRACTOR SHALL GIVE HIS PERSONAL ATTENTION TO THE FAITHFUL CARRYING OUT THE WORK. COMPETENT AND SKILLFUL MEN SHALL BE EMPLOYED TO EXECUTE THE WORK WHICH SHALL BE SUPERVISED BY AN EXPERIENCED ARBORIST FOREMAN AT ALL TIMES.
- 3) THE CONTRACTOR SHALL HAVE AVAILABLE AND IN GOOD CONDITION ALL EQUIPMENT NECESSARY FOR THE SAFE TRANSPORTING OF PLANTINGS TO THE SITE AND FOR SETTING PLANTINGS IN FINAL POSITION.
- 4) THE CONTRACTOR SHALL CONTAIN HIS OPERATION WITHIN THE OWNER'S PROPERTY AND SHALL AVOID OR MINIMIZE ANNOYANCE OR DISTURBANCE TO THE PUBLIC.
- 5) CARE SHALL BE TAKEN TO AVOID DISTURBANCE OF ALL AREAS OUTSIDE OF THE WORK AREAS AND ANY DAMAGE THERE TO SHALL BE IMMEDIATELY REPAIRED AND RESTORED TO THE ORIGINAL CONDITION.
- 6) WHEN THE WORK IS COMPLETED, THE CONTRACTOR SHALL RESTORE THE SURFACE OF OWNER'S PROPERTY AND/OR ANY OTHER LAND USED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION. ALL DEBRIS, EXCESS EXCAVATED MATERIAL, AND ALL OTHER MATERIAL WHICH COLLECTS AS A RESULT OF THE CONTRACTOR'S OPERATION, SHALL BE REMOVED IMMEDIATELY.
- 7) ALL BRICKS MORTAR, DECORATIVE STONE, CONCRETE, STONE, SAND GRAVEL, MODULAR BRICK FORMS, MULCH OF ALL TYPES, PULVERIZED BLACK DIRT, TREES, FENCE INSTALLATION AND REMOVAL, FLOWERS, SHRUBS, EVERGREEN TREES AND TO BE FURNISHED BY THE CONTRACTOR WITH LABOR TO INSTALL.
- 8) THE CONTRACTOR SHALL REMOVE ONLY THOSE TREES AND SHRUBS SO DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, OR THOSE THAT DIRECTLY INTERFERE WITH THE SAFETY OR QUALITY OF CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF TWO DAYS IN ADVANCE OF REMOVAL OF TREES THAT AFFECT SAFETY. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN WORKING NEAR EXISTING TREES AND SHRUBS TO AVOID DAMAGING THOSE NOT SCHEDULED FOR REMOVAL AND SHALL REPLACE ANY DAMAGED PLANTS AT HIS OWN EXPENSE. THE CONTRACTOR SHALL PROTECT ALL OTHER TREES, BUSHES AND LANDSCAPING FEATURES. TREES REMOVED OR DAMAGED BY THE CONTRACTOR THAT HAVE NOT BEEN DESIGNATED FOR REMOVAL, SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY. TREES TO HAVE BRANCHES OR ROOTS PRUNED SHALL BE DONE IN A NEAT AND CLEAN MANNER (I.E., WITH A SAW DESIGNED FOR PRUNING OR SHEARS OR LOPPERS) AND NOT TORN, PULLED, OR BROKEN WITH CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL HAVE THE SERVICES OF A REGISTERED AND CERTIFIED ARBORIST ON SITE DURING THE TREE REMOVAL, TRIMMING AND PRUNING WORK. THE ARBORIST SHALL IDENTIFY THE TYPE, SIZE, DIAMETER AND CONDITION OF ALL TREES AND EVERGREENS PRIOR TO REMOVAL, TRIMMING AND/OR PRUNING AND PROVIDE A REPORT FOR EACH TREE OR EVERGREEN WORKED ON. THE REPORT SHALL BE PROVIDED IN DUPLICATE AND GIVEN TO THE ENGINEER FOR REVIEW. SEE DETAILS OF TREE REQUIREMENTS IN PLAN DRAWINGS OR AS DIRECTED BY THE ENGINEER.

**I. GENERAL (CONTINUED)**

- 9) TREES SHALL BE INSTALLED A MINIMUM OF FIVE FEET HORIZONTALLY FROM SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES. TREES SHALL BE INSTALLED A MINIMUM OF TEN FEET HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVE VAULTS, VALVE BOXES AND FIRE HYDRANTS.
- 10) THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A LICENSED AND REGISTERED ARBORIST, A REGISTERED LANDSCAPER ARCHITECT, PLUS A STATE AND COUNTY LICENSED, CERTIFIED AND APPROVED LANDSCAPING SERVICE ASSIGNED AND PERFORM SERVICES FOR THE DURATION OF THE PROJECT. THE ARBORIST AND REGISTERED LANDSCAPER ARCHITECT SHALL OVERSEE ALL RESTORATION REQUIRED ON THE PROJECT AS IT RELATES TO SURFACE RESTORATION, VEGETATION, DECORATIVE FEATURES, PROVIDE LANDSCAPING DESIGNS, GARDENS, AND TREES AND SHRUBS AND EVERGREENS AND SODDING, SEEDING AND BLACK DIRT INSTALLATION, AND SHALL DIRECT PRUNING AND TRIMMING OPERATIONS TO FOLLOW THE BEST PRACTICES AND METHODS WHEN IT COMES TO SURFACE RESTORATION, VEGETATION, TREES AND PLANTS. THE ARBORIST AND/OR ARCHITECT SHALL WRITE REPORTS WITH RECOMMENDATIONS, CAUSE AND EFFECT RELATION SHIPS, PROVIDE LANDSCAPING DESIGNS FOR CUSTOMER APPROVAL AND PROVIDE POSSIBLE SOLUTIONS WITH OPTIONS OF ALL WORK BEING DONE OR PROPOSED WHEN REQUESTED TO DO SO BY THE OWNER. THE REGISTRATION NUMBER AND NAME OF THE REGISTERED LANDSCAPE ARCHITECT SHALL BE PROVIDED PRIOR TO STARTING WORK. IN ADDITION, THE CONTRACTOR SHALL PROVIDE THE ARBORIST NAME AND CREDENTIALS. THE COST OF PROVIDING THIS SERVICE IS INCIDENTAL TO THE COST OF THE CONTRACT.
- 11) ALL RESTORATION SHALL NOT BE DONE EXCEPT FOR PREP WORK OF THE AREA, PRUNING OR TRIMMING WHEN THE SUMMER SEASON TEMPERATURE SHALL EXCEED 85 DEGREES FAHRENHEIT OR BELOW 40 DEGREES FAHRENHEIT WINTER TEMPERATURE. ALL RESTORATION SHALL START BY APRIL 1 AND STOP BY NOVEMBER 15, OR SOONER AS WEATHER PERMITS. IF WINTER CONDITIONS PREVENT RESTORATION WORK, FOLLOWING THE WINTER SEASON THE CONTRACTOR SHALL RESUME RESTORATION WORK BY APRIL 1, WEATHER PERMITTING, OF THE NEXT YEAR OR IN ACCORDANCE WITH LOCAL AGENCIES. THE OWNER SHALL RETAIN FUNDS OF A MINIMUM EQUAL TO THE WORK TO BE DONE OR MORE, AND SHALL BE PAID WHEN THE WORK IS COMPLETED. THE GUARANTEE SHALL BE FROM THE DATE THE ENGINEER HAS SIGNED THAT ALL SURFACE RESTORATION IS COMPLETED.
- 12) THIS WORK SHALL CONSIST OF THE CUTTING, GRUBBING, REMOVAL AND DISPOSAL OF TREES AND EVERGREENS AT THE LOCATIONS SHOWN ON THE PLANS OR SPECIFIED BY THE ENGINEER. NO TREES SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER. TREE REMOVAL METHODS SHALL BE IN CONFORMANCE WITH IDOT ARTICLE 201.04 OF THE STANDARD SPECIFICATIONS.
- 13) CLEARING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE UTILITY INSTALLATION REQUIRED IN THE CONTRACT.
- 14) THE CONTRACTOR SHALL REMOVE ALL STUMPS, TREES AND EVERGREENS AND DISPOSE OFF SITE, PLUS RESTORE SURFACE WITH A 6" LAYER OF BLACK DIRT AND SOD.
- 15) THE CONTRACTOR SHALL REQUIRE THAT AN ARBORIST AND ARCHITECT LANDSCAPER LOOK AT EACH TREE FOR DISEASE, FUNGUS OR BEETLE INFESTATION AND SOUND TREE FOR STRUCTURAL SUITABILITY AND GENERAL CONDITION OF TREE BEFORE CLIMBING OR SAWING. A REPORT SHALL BE GIVEN TO THE ENGINEER INDICATING THEIR FINDINGS.
- 16) TREES TO BE REMOVED OR INSTALLED WILL BE MEASURED IN INCH-DIAMETER. THE DIAMETER WILL BE MEASURED AT A POINT FOUR FEET ABOVE THE HIGHEST GROUND LEVEL AT THE BASE OF THE TREE AND WILL BE DETERMINED BY ASSURING THE CIRCUMFERENCE OF THE TREE AND DIVIDING THIS MEASURE CIRCUMFERENCE BY 3.1416.
- 17) TREE REMOVAL OR INSTALLATION WILL BE PAID FOR AT THE CONTRACT UNIT PRICES PER UNIT DIAMETER FOR TREE REMOVAL/INSTALLATION, 6-12 INCH DIAMETER, AND 13-30 INCH DIAMETER, WHICH SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT AND APPURTENANCES NECESSARY TO COMPLETE THE WORK.
- 18) CONTRACTOR IS ADVISED TREE REMOVAL OR INSTALLATION REQUIRES THAT ALL UTILITIES ARE TO BE IDENTIFIED PRIOR TO REMOVAL AND PROVIDE PROPER PROTECTION (WOOD LAGGING GROUND TREES).

**II. PLANT MATERIAL**

- 1) THE CONTRACTOR SHALL INVESTIGATE SOURCES OF SUPPLY TO ENSURE THAT ALL THE PLANTS DESIGNATED ON THE PLANTING LIST IN THE SIZE, VARIETY, AND QUALITY NOTED AND SPECIFIED ARE AVAILABLE. FAILURE TO TAKE THIS PRECAUTION WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY TO FURNISH AND INSTALL ALL THE PLANT MATERIAL STRICT ACCORDANCE WITH THE CONTRACT REQUIREMENTS, AND WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
  - 2) ALL STOCK FURNISHED SHALL BE WELL SHAPED PLANTS AND MUST BETRUE TO NAME. ONE OF EACH SIZE SHALL BE LEGIBLY TAGGED WITH A WEATHER PROOF TAG STATING THE SIZE AND STANDARD BOTANICAL NAME AS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
  - 3) ALL BALLED AND BURLAPPED STOCK SHALL CONFORM FULLY TO THE SPECIFICATIONS AS SET FORTH BY THE AMERICAN NURSERYMEN'S ASSOCIATION AND THE ILLINOIS LANDSCAPE CONTRACTOR'S ASSOCIATION.
  - 4) THE CALIPER OF TREE TRUNKS SHALL BE TAKEN SIX INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR INCHES CALIPER AND 12 INCHES ABOVE GROUND LEVEL FOR TREES OF LARGER CALIPER.
  - 5) NO SUBSTITUTION SHALL BE MADE WITHOUT WRITTEN AUTHORIZATION BY THE OWNER'S REPRESENTATIVE.
  - 6) UPON NOTICE FROM THE OWNER'S REPRESENTATIVE, ALL PLANTS NOT TRUE TO SIZE, QUALITY, VARIETY AND COLOR SPECIFIED SHALL BE REMOVED BY THE CONTRACTOR AND IMMEDIATELY REPLACED AT THE CONTRACTOR'S EXPENSE WITH PLANTS MEETING THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THE DECISION OF THE OWNER'S REPRESENTATIVE SHALL BE FINAL.
  - 7) ALL PLANTS SHALL BE DUG WITH REASONABLE CARE AND SKILL IMMEDIATELY PREVIOUS TO SHIPMENT, OR, IF DUG IN ADVANCE, ROOTS MUST BE CAREFULLY PROTECTED AT ALL TIMES TO PREVENT EXCESSIVE DRYING. ROOTS SHALL NOT BE SPLIT NOR SHALL ANY ROOTS OVER ONE-HALF INCH DIAMETER BE CUT OR BROKEN. SPECIAL PRECAUTIONS SHALL BE TAKEN TO AVOID ANY UNNECESSARY INJURY TO OR REMOVAL OF FIBROUS ROOTS.
  - 8) EACH SPECIES OR VARIETY SHALL BE HANDLED AND PACKED IN THE APPROVED MANNER FOR THAT PLANT, HAVING REGARD TO THE SOIL AND CLIMATIC CONDITIONS AT THE TIME AND PLACE OF DIGGING, THE TYPE OF TRANSIT, THE DELIVERY SITE, AND THE TIME THAT WILL BE CONSUMED IN TRANSIT OR DELIVERY. ALL PRECAUTIONS THAT ARE CUSTOMARY IN GOOD TRADE PRACTICE SHALL BE TAKEN TO ENSURE THAT UPON ARRIVAL AT THE DESTINATION THE PLANTS ARE IN GOOD CONDITION FOR SUCCESSFUL GROWTH.
- III. TREES AND EVERGREENS**
- 1) IDENTIFY SPECIES USING AN ARBORIST, INSTALL ALL WORK USING A REGISTERED, LICENSED, LANDSCAPING SERVICE. REMOVE, FURNISH, DELIVER, MAKE READY WORK, GRADE, LEVEL, DISPOSE OF EXCAVATED MATERIALS OFF SITE, AND PLANT A TREE OR EVERGREEN OF THE SAME SPECIES, VARIETY AND SAME SIZE. INSTALL SUITABLE BLACK DIRT FILL, GRADE, INSTALL WITH MULCH AND WATER. IF THIS IS NOT POSSIBLE FOR TREE REPLACEMENT DO THE FOLLOWING: FURNISH, DELIVER AND PLANT WITH THE SAME AT LOCATIONS DESIGNATED BY THE ENGINEER, A NUMBER OF TREES OF THE SAME SPECIES AND VARIETY HAVING A MINIMUM DIAMETER OF 4 INCHES, WHOSE TOTAL INCH DIAMETER EQUALS THE INCH DIAMETER OF THE TREE REMOVED. DIAMETER OF THE PRESENT TREE 4" AND LESS IN DIAMETER SHALL BE MEASURED AT 6 INCHES FROM THE TOP OF ROOT BALL OR AS DENOTED ON THE DRAWINGS, TREES 4" AND LARGER IN DIAMETER SHALL BE MEASURED AT 12 INCHES FROM TOP OF ROOT BALL OR AS DENOTED ON THE DRAWINGS. THE EXCAVATION FOR THE TREE OR EVERGREEN SHALL BE THREE TIMES THE DIAMETER SIZE OF THE ROOT BALL, PLUS 3 TO 4 FEET DEEP AND THE ALL EXCAVATED EXISTING GROUND MATERIALS REMOVED FROM THE SITE AND DISPOSED OF OFF SITE, DECORATIVE EDGING INSTALLED, AND NEW PULVERIZED DIRT WITH THE PROPER NUTRIENTS ADDED, SUPPORTED BY ROPE TIE DOWNS, AND 3 INCH THICK BED OF MULCH AROUND THE TREE COVERING THE EXCAVATED AREA, PLUS WATERING FOR 2 MONTHS UNDER THE DIRECTION OF AN ARBORIST ENGINEER. ALL TREES AND EVERGREENS PLANTED SHALL BE LOCATED AND IDENTIFIED AND DATED AND PUT ON A DRAWING AND THE TREE OR EVERGREEN IDENTIFIED BY SPECIES AND SIZE WITH THE STREET ADDRESS AND GIVEN TO THE ENGINEER FOR THE RECORD. ALL TREES OR EVERGREENS SHALL BE GUARANTEED TO GROW FOR ONE YEAR AND 6 MONTHS FROM THE DATE OF THE AS BUILT DRAWING, WHICH IS SIGNED AND DATED BY THE ENGINEER.

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	TRANSMISSION LINE LANDSCAPING OVERHEAD OR UNDERGROUND (CONSTRUCTION SPECIFICATION)	DATE: 06-01-06 Page 1 of 11 60468-1000
--	--	--

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	TRANSMISSION LINE LANDSCAPING OVERHEAD OR UNDERGROUND (CONSTRUCTION SPECIFICATION)	DATE: 06-01-06 Page 2 of 11 60468-1000
--	--	--

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	TRANSMISSION LINE LANDSCAPING OVERHEAD OR UNDERGROUND (CONSTRUCTION SPECIFICATION)	DATE: 06-01-06 Page 3 of 11 60468-1000
--	--	--

**III. TREES AND EVERGREENS (CONTINUED)**

- 2) THE CONTRACTOR, UPON APPROVAL OF THE ENGINEER, MAY ELECT TO AUGUR UNDER ANY TREE OR EVERGREEN WITH A TRUNK SIZE OF 6 INCHES OR LARGER. HOWEVER, ALL TREES OR EVERGREENS WITH A TRUNK SIZE OF 12 INCHES AND LARGER SHALL BE AUGURED. AUGURING SHALL EXTEND THE FULL LENGTH OF THE DRIP LINE OF THE TREE AND PASS NO CLOSER THAN 4 FEET TO THE OUT SIDE DIAMETER OF THE TRUNK. DEVIATION FROM THE CONDUIT CENTERLINE TO AVOID TREE TRUNKS WILL BE PERMITTED WHERE POSSIBLE, BUT AT NO ADDITIONAL COST TO THE OWNER. THE DRILLING TECHNIQUE MAY BE CONSIDERED AND PERFORMED WITH THE ENGINEER'S APPROVAL AT NO COST TO THE OWNER. ALL WORK TO REMOVE THE TREES OR EVERGREENS ARE UNDER THE SUPERVISION OF AN ARBORIST PROVIDED BY THE CONTRACTOR. ALL EXCAVATION SHALL BE BACKFILLED WITH 6 INCHES OF BLACK DIRT AND LEVELED AND GRADED.
- 3) SHRUBS, BUSHES, FLOWERS, PLANTS, SMALL TREES AND SMALL EVERGREENS SHALL BE FURNISHED, DELIVERED, AREA PREPARED, BLACK DIRT BACK FILL MADE LEVEL, GRADE, AND COMPACT AND PROMOTE DRAINAGE, AND PLANT A PLANT OF THE SAME SPECIES VARIETY, SAME SIZE IN HEIGHT, SAME SIZE IN WIDTH, AS COVERED BY ARTICLE 1081.01 (a), TYPES 1, 2, 3 AND 4, OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION OR FURNISH, DELIVER AND PLANT, AT LOCATIONS DESIGNATED BY THE ENGINEER. A NUMBER OF PLANTS OF THE SAME SPECIES AND VARIETY WHOSE TOTAL MEASUREMENTS SHALL EQUAL THE MEASUREMENT OF THE PLANT TO BE REPLACED, MEASURED ABOVE. THE EXCAVATION FOR THE SHRUBS, BUSHES, FLOWERS, PLANTS, SMALL TREES AND SMALL EVERGREENS SHALL BE TWICE THE SIZE OF THE ROOT BALL AND THE EXISTING GROUND MATERIALS REMOVED FROM THE SITE AND NEW PULVERIZED DIRT WITH THE PROPER NUTRIENTS ADDED, SUPPORTED BY ROPE THE DOWNS, STICKS AND 3 INCH THICK BED OF MULCH AROUND THE PLANT COVERING THE EXCAVATED AREA, PLUS WATERING FOR 2 MONTHS UNDER THE DIRECTION OF AN ARBORIST. ALL SHRUBS, BUSHES, FLOWERS, PLANTS, SMALL TREES, SMALL EVERGREENS PLANTED SHALL BE LOCATED AND IDENTIFIED AND DATED AND PUT ON A DRAWING AND THE SHRUBS, BUSHES, FLOWERS, PLANTS, OR SMALL EVERGREENS AND SMALL TREES SHALL BE IDENTIFIED BY SPECIES AND SIZE WITH THE STREET ADDRESS AND GIVEN TO THE ENGINEER FOR THE RECORD. ALL SHRUBS, BUSHES, FLOWERS, PLANTS, SMALL TREES AND SMALL EVERGREENS SHALL BE GUARANTEED TO GROW FOR ONE YEAR FROM THE DATE OF THE AS BUILT DRAWING, WHICH IS SIGNED AND DATED BY THE ENGINEER.
- 4) THE CONTRACTOR SHALL REPLACE ALL EXISTING LANDSCAPING SUCH AS: BLACK DIRT, GRASS, PLANTS, TREES, SHRUBS, EVERGREENS, GARDENS, VEGETABLE GARDENS, VINES, BUSHES, FLOWERS AND ROCK GARDENS REMOVED OR DAMAGED. THE CONTRACTOR SHALL VIDEO THE ENTIRE PROJECT TO DETERMINE ALL THE TYPES OF LANDSCAPING PRIOR TO STARTING THE WORK. FAILURE TO DO SO SHALL REQUIRE THAT ALL LANDSCAPING CLAIMED TO BE DAMAGED SHALL BE CONSIDERED DAMAGED AND REPLACED AT THE CONTRACTORS COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LANDSCAPING CARE OF ALL TYPES AND VARIETY OF LANDSCAPING DURING THE PERIOD OF ESTABLISHMENT FOR INITIAL AND REPLACED LANDSCAPING AND SHALL COMPLY WITH REQUIREMENTS FOR REMOVAL AND REPLACEMENT OF UNACCEPTABLE AND/OR DEAD LANDSCAPING MATERIALS.
- 5) ALL LANDSCAPING MATERIALS SHALL CARRY A ONE YEAR AND SIX MONTHS GUARANTY FROM FINAL PAYMENT AND/OR FROM THE DATE THE ENGINEER SIGNS THE AS BUILT DRAWING ACCEPTING THE WORK.
- 6) AT THE TIME OF SELECTION AT THE NURSERY THE LANDSCAPING MATERIALS MUST BE:
  - A) IN A LIVE HEALTHY CONDITION.
  - B) CHECK AND RECORD THE DIAMETER FROM TOP OF ROOT BALL.
  - C) BALANCED AND SYMMETRICAL APPEARANCE.
  - D) REPRESENTATIVE OF ITS THE SPECIES IN COLOR, SIZE AND STRAIGHTNESS.
  - E) SUFFICIENT DIRT TO PROMOTE GROWTH.
  - F) NOT INFECTED WITH INSECTS OR FUNGI.
  - G) ALL LANDSCAPING MATERIALS SHALL BE APPROVED FOR PLANTING BY THE ARBORIST AND/OR LANDSCAPE ARCHITECT.
- 7) ALL LANDSCAPING PLANTS, ETC., THAT DO NOT MEET THE REQUIREMENTS FOR ACCEPTANCE SHALL BE REPLACED AT THE CONTRACTORS COST AT ITS OWN EXPENSE AND SHALL CARRY THE SAME GUARANTEE. TREES, PLANTS, GRASS, SHRUBS, EVERGREENS, GARDENS, VEGETABLE GARDENS, BUSHES, FLOWERS, AND VINES RESTORATION IDENTIFIED ON THE CONSTRUCTION DRAWING, SHALL BE PAID BY UNIT PRICING, HOWEVER ALL DISTURBED AREAS CAUSED DURING CONSTRUCTION AND/OR NOT SHOWN ON THE DRAWINGS SHALL BE RESTORED BY THE CONTRACTOR AND IS INCIDENTAL TO THE WORK. THE CONTRACTOR IS ADVISED THE WORK AREA IS ON THE ROADWAY PROPERTY AND SHALL BE DONE TO THE DUPAGE COUNTY DEPARTMENT OF TRANSPORTATION REQUIREMENTS; THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL AREAS.

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	TRANSMISSION LINE LANDSCAPING OVERHEAD OR UNDERGROUND (CONSTRUCTION SPECIFICATION)	DATE: 06-01-06 Page 4 of 11 60468-1000
--	--	--

**III. TREES AND EVERGREENS (CONTINUED)**

- 8) THE CONTRACTOR SHALL NOTE THAT SOME LANDSCAPING MATERIALS MAY BE REQUIRED TO BE TRANSPLANTED THEN ALL RULES, REGULATIONS, PAYMENT, GUARANTEES, WATERING FOR 2 MONTHS, CARE OF TREES, BASS SIZE, PREP AREA SHALL HAVE THE SAME REQUIREMENTS AS IF INSTALLING NEW LANDSCAPING MATERIAL. ALL TRANSFERRED LANDSCAPING MATERIALS ACTIVITIES SHALL BE DIRECTED AND PERFORMED UNDER THE SUPERVISION OF THE ARBORIST AND LANDSCAPE ARCHITECT. SEE DRAWING FOR PARTICULARS. TRANSPLANTING SHOWN ON THE DRAWING AND NOT IDENTIFIED UNDER A UNIT PRICE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT AND SHALL NOT BE PAID FOR SEPARATELY.
- IV. PLANTING**
- 1) IF THE SOIL AT HAND IS NOT SUITABLE FOR PLANTING, A SUITABLE LIGHT RICH SOIL SHALL BE SUPPLIED. THE BACKFILL SOIL SHALL BE FREE OF SOD, LUMPS, CLODS, STONES, AND ALL OTHER TYPES OF FOREIGN MATERIALS AND SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO DELIVERY ON THE SITE. BACKFILL SHALL BE MIXED WITH PEAT MOSS, OR EQUIVALENT, AND SHALL BE WELL COMPACTED BY TAMPING AND WATERING ACCORDING TO ACCEPTED PRACTICE SO THAT ALL VOIDS AND AIR POCKETS ARE ELIMINATED. SLIGHT DEPRESSION SHALL BE LEFT AROUND THE PLANTING TO FACILITATE WATERING.
  - 2) PLANTING PITS FOR BALLED AND BURLAPPED TREES SHALL BE PREPARED AT THE TIME THE STOCK IS DUG SO THAT NO DELAY WILL OCCUR WHEN THE STOCK IS READY TO BE PLANTED. ALL PITS SHALL BE DUG AT LEAST ONE FOOT WIDER THAN THE DIAMETER OF THE BALL. THE PLANTING PIT SHALL BE DEEP ENOUGH TO PROVIDE PROPER DRAINAGE, TO ALLOW FOUR INCHES OF SOIL BENEATH THE BALL, AND TO PERMIT THE PLANTING WHEN IT HAS SETTLED TO STAND AT THE ESTABLISHED GRADE AT THE SAME DEPTH AS IT ORIGINALLY GREW. IF THE SOIL CONDITION IN THE PITS ARE SUCH THAT ADDITIONAL DRAINAGE IS REQUIRED TO ENSURE SUCCESSFUL GROWTH, SUITABLE DRAINAGE SHALL BE PROVIDED BY THE CONTRACTOR. WHATEVER TYPE OF DRAINAGE IS PROVIDED SHALL ELIMINATE SUPERFLUOUS WATER IN THE PIT AND DRAIN AWAY FROM THE PLANTING SITE. EACH TREE SHALL BE PLANTED SO AS TO STAND DIRECTLY WHERE STAKED AND AT THE ESTABLISHED GRADE. IMMEDIATELY AFTER BEING PLANTED, THE TRUNKS OF ALL DECIDUOUS TREES SHALL BE WRAPPED SPIRALLY WITH CREPE PAPER MANUFACTURED FOR THIS PURPOSE. WRAPPING SHALL BE APPLIED FROM TOP DOWN AND STARTED AT A POINT FAR ENOUGH UP IN THE TREE TO BE WELL SHADED BY BRANCHES ABOVE. LARGE LOWER LIMBS SHALL BE BOUND AND REINFORCED WITH STOUT CORD WOUND SPIRALLY IN THE OPPOSITE DIRECTION OF THE WRAPPING PAPER.
  - 3) ALL BALLED AND BURLAPPED SHRUBS SHALL BE PLANTED IN HOLES TWELVE INCHES LARGER IN DIAMETER THAN THE BALL OF ADEQUATE DEPTH, AND WITH PERPENDICULAR WALLS. THE BALL SHALL BE COVERED TO APPROXIMATELY THREE QUARTERS OF THE DEPTH AND THOROUGHLY WATERED IN PLACE. THE REMAINING ONE QUARTER FILL SHALL BE DRY SOIL WELL COMPACTED INTO PLACE.
  - 4) IN AREAS WHERE THE PLANTING OF BALLED STOCK HAS RESULTED IN AN EXCESSIVE AMOUNT OF EXTRA SOIL, SUCH EXCESS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR AND DISPOSED OF OFF SITE.
  - 5) PLANTING PITS FOR BARE ROOTED STOCK SHALL BE AMPLE TO RECEIVE THE ROOTS WITHOUT CROWDING. AFTER PLACING THE PLANTS IN THE HOLES, THE LATTER SHALL BE FILLED WITH TOP SOIL WATERED AND THEN FILLED WITH COMPACTED DRY EARTH TO THE LEVEL OF THE FINISHED GRADE. THE PLANTS SHALL BE PLANTED PLUMB AND STRAIGHT. ALL DECIDUOUS BARE ROOTED STOCK SHALL BE PROPERLY ROOT PRUNED BEFORE PLANTING TO REMOVE UNDESIRABLE ROOT GROWTH AND TO IMPROVE GROWTH CHARACTERISTICS.

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	TRANSMISSION LINE LANDSCAPING OVERHEAD OR UNDERGROUND (CONSTRUCTION SPECIFICATION)	DATE: 06-01-06 Page 5 of 11 60468-1000
--	--	--

**IV. PLANTING (CONTINUED)**

- 6) THIS WORK SHALL CONSIST OF PLANTING TREES AND EVERGREENS OF VARIOUS SIZES AND TRUNK DIAMETER. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE PROPOSED LOCATION FOR FOREIGN UTILITIES, ROOM FOR GROWTH, SUITABLE DRAINAGE AND SUNLIGHT OR SHADE. THE ARBORIST SHALL BE ON THE PROJECT DURING THE ENTIRE PROCESS AND SHALL DIRECT THE PLANTING.
- 7) PRIOR TO PLANTING, EXAMINE THE AREA FOR OVERHEAD OBSTRUCTIONS WHEN DIGGING AND MOVING. CONTRACTOR SHALL UNDERTAKE ANY PRUNING REQUIRED TO REMOVE POORLY POSITIONED OR DAMAGED LIMBS. THE CONTRACTOR SHALL IDENTIFY IF THE SPECIES, OR SOME PORTION THEREOF, IS DISEASED. THE CONTRACTOR SHALL DETERMINE IF THE TREE OR EVERGREEN IS A SAFETY CONCERN PRIOR TO PERFORMING ANY WORK. FOR EXAMPLE, IF IT CREATES A LINE OF SIGHT PROBLEM FOR VEHICLES, IF IN THE OPINION OF THE ARBORIST THE TREE OR EVERGREEN IS NOT PLANTABLE THEN THE TREE SHALL NOT BE PLANTED.
- 8) CONTRACTOR SHALL EXAMINE THE NEW SITE FOR THE TREE'S HABITAT REQUIREMENTS. FOR EXAMPLE: WIND PROTECTION; TIME OF YEAR, SOIL PH, SUNLIGHT AND MOISTURE REQUIREMENTS. PLANT IN EARLY FALL, BEFORE FIRST FREEZE OR IN THE SPRING BEFORE THE BUDS ON THE TREES OR EVERGREENS BEGIN TO SWELL.
- 9) THE CONTRACTOR SHALL BE REQUESTED TO PLANT THE FOLLOWING TREE OR EVERGREEN SPECIES: USE 15 GALLON SIZE OR 4" HIGH ON 4" DIA. AS MEASURES (DWARF RED BUCK EYE).
 

RIVER BIRCH	SARGENT CRAB TREE
HACKBERRY	NINE BARK DARTS GOLD
HAWTHORN	SUMAC SMOOTH
AMERICAN LINDEN	ARROW WOOD VIBURNUM
SILVER MAPLE	WIEDELA FLORIDA
PIN OAK	JAPANESE YEW
RED OAK	SUMATRAN YEW
GREEN ASH	ARBORVITAE GLOBE
SUMAC	ARBORVITAE TECHNY
COLORADO SPRUCE	ARBORVITAE AMERICAN
BALSAM SPRUCE	MUGHO PINE
SPRUCE	BOWWOOD WINTERGREEN
PINES OF VARIOUS SPECIES	DWARF RED BUCK EYE
CRAB MYRTLE TREE	CRANBERRY VIBURNUM
EMERALD ARBORVITAE	
- 10) THE CONTRACTOR SHALL PREPARE A DESIGN OF THE PLANTED TREE AS IT FITS ON THE PROPERTY BY AN ARCHITECT LANDSCAPER. THE DRAWING SHALL BE GIVEN TO THE ENGINEER.
- 11) THE CONTRACTOR SHALL GET APPROVAL FOR PLANTING FROM THE CITY OF NAPERVILLE PRIOR TO PLANTING.
- 12) THE CONTRACTOR SHALL IDENTIFY WHAT TYPE OF TREE SHALL BE PLANTED AND PREPARE TREE FOR SHIPPING AND PLANTING.
- 13) THE CONTRACTOR SHALL MAINTAIN ALL ACTIVITIES WITHIN THE EASEMENTS OR PUBLIC WAYS ANY AND ALL OTHER MEANS TO PERFORM THE WORK IS AT THE CONTRACTORS EXPENSE AND SHALL OBTAIN PERMISSION FROM ALL LAND OWNERS TO USE THEIR PROPERTY.
- 14) THE CONTRACTOR UNDER THE DIRECTION OF AN ARBORIST SHALL PREPARE THE SITE FOR THE PLANTING, FERTILIZE, WATER, TRIM ADD MULCH, STAKE AS NECESSARY, PROVIDE DRAINAGE AND MAINTAIN FOR ONE YEAR. TREES AND EVERGREENS TO BE PLANTED SHALL BE MEASURED IN INCH DIAMETER. THE DIAMETER WILL BE MEASURED AT A POINT FOUR FEET ABOVE THE HIGHEST GROUND LEVEL AT THE BASE OF THE TREE OR EVERGREEN AND WILL BE DETERMINED BY ASSURING THE CIRCUMFERENCE OF THE TREE AND DIVIDING THIS MEASURE CIRCUMFERENCE BY 3.1416.
- 15) SEE SPECIFICATION 56270-1210 FOR ADDITIONAL REQUIREMENTS AND BASIS OF PAYMENTS. CONTRACTOR SHALL FOLLOW SPECIFICATION OF TREE, SHRUB AND EVERGREEN PRESERVATION REQUIREMENTS, CONTRACTOR TO PROVIDE TREE SURVEY.

NAPERVILLE PUBLIC UTILITIES DEPARTMENT	TRANSMISSION LINE LANDSCAPING OVERHEAD OR UNDERGROUND (CONSTRUCTION SPECIFICATION)	DATE: 06-01-06 Page 6 of 11 60468-1000
--	--	--

PROJECT TITLE				ROUTE 59 ROAD IMPROVEMENTS							
PROJECT DESCRIPTION								DETAILS AND STANDARDS			
ENGINEER	BCC	DRAFTING DATE	5-11-12	MAP #	4211,4212,4223	SCALE	N.T.S.				
DESIGN BY	DL	DRAFTED BY	PSM	AT&T JOINT AGREEMENT #	N/A	PROJECT #	EU-12				
CHECKED BY		APPROVED BY		CAD FILE	006048001D156.DWG	SHEET #	56 OF 63				
Naperville				Department of Public Utilities Electric Division							
				WORK REQUEST # 60468							