

1. CITY NOTE: THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE REGULAR WEEDING, MOWING, IRRIGATION, FERTILIZING, PRUNING, REPLACEMENT, AND OTHER MAINTENANCE OF ALL PLANTINGS TO ENSURE THAT LANDSCAPING IS MAINTAINED IN A HEALTHY GROWING CONDITION.
2. SUBMITTING A PROPOSAL FOR THE LANDSCAPE WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
4. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
 - a. BEFORE THE START OF WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN $\pm 0.1'$ OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
 - b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT. IN THE CASE OF THE GRADING PLANS, AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
 - c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE ADDITION OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE APPLIED (**BASED ON A SOIL TEST**, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
 - d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
5. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
 - a. ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
 - b. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES: PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS AFTER GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT LEGEND SHALL TAKE PRECEDENCE.
 - c. **NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT.** IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
 - d. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT AND APPROVE OR REJECT ALL PLANTS TO BE SUBMITTED TO THE JOINT REVIEW. REQUESTS FOR PLANT PHOTOS FOR REVIEW MUST BE SUBMITTED TO THE ARCHITECT.
 - e. CONTRACTOR SHALL PROVIDE AND INSTALL SOLID SOD IN ALL RIGHT-OF-WAYS AND PARKWAYS (UNLESS NOT ALLOWED BY THE LOCAL JURISDICTION) AND SHALL PROVIDE WATERING AND MAINTENANCE UNTIL THE TURF IS ESTABLISHED AND HAS BEEN ACCEPTED BY OWNER.
 - f. THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
 - g. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 3" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED), OVER LANDSCAPE FABRIC IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

1. AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL BY THE TIME OF FINAL INSPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL BE INSTALLED BY A LICENSED AND QUALIFIED IRRIGATION CONTRACTOR.
2. THE IRRIGATION SYSTEM WILL OPERATE ON POTABLE WATER, AND THE SYSTEM WILL HAVE APPROPRIATE BACKFLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE POTABLE SOURCE.
3. ALL NON-TURF PLANTED AREAS SHALL BE DRIP IRRIGATED. SOODED AND SEEDED AREAS SHALL BE IRRIGATED WITH SPRINKLER HEADS AT 100% HEAD-TO-HEAD COVERAGE.
4. ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDROZONE.
5. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED, TO THE MAXIMUM EXTENT POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVICES AND FEATURES: MULTIPLE ZONE CONTROL, VARIABLE TECHNOLOGY ON ROTOR AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND MULTI-PROGRAM COMPUTERIZED IRRIGATION CONTROLLERS FEATURING SENSORY INPUT CAPABILITIES.

PERMITTING AUTHORITY:	CITY OF BRYAN, TX
PROPOSED ZONING:	MT-C
ADJACENT ZONING:	MT-C
OVERALL LANDSCAPE REQUIREMENT	
TOTAL DEVELOPED SITE AREA:	24,743 SF
LANDSCAPE AREA REQUIRED:	3,711.5 SF (15% OF DEVELOPED SITE AREA)
LANDSCAPE AREA PROVIDED:	4,579 SF
TREES:	
NOT LESS THAN 50% OF AREA TO BE LANDSCAPED SHALL BE PLANTED IN TREES.	PROVIDED
NOT LESS THAN 50% OF TREES PLANTED IN THE AREA TO BE LANDSCAPED SHALL BE CANOPY TREES.	PROVIDED
PARKING AREA LANDSCAPING	
PROVIDE A CANOPY OR EVERGREEN TREE ON EACH TERMINAL LANDSCAPE ISLAND W/ 24" SOIL DEPTH AND 250 CU. FT. OF PLANTING MEDIUM PER TREE.	PROVIDED
THE REMAINDER OF ALL PARKING LOT ISLANDS SHALL BE FULLY LANDSCAPED.	PROVIDED
PROVIDE LANDSCAPING ALONG FRONT AND SIDES OF PARCEL.	PROVIDED
<u>PARKING AREA SCREENING ALONG PUBLIC ROW.</u>	
HEDGE SCREEN:	
EVERGREEN SHRUBS TO BE PLANTED IN 6' WIDE LANDSCAPE STRIP IN STAGGERED PATTERN MADE OF 2 ROWS, 2' APART, MADE WITH SHRUBS 3' O.C.	PROVIDED

CLASS 'A' TREES	CODE	QTY	BOTANICAL / COMMON NAME	MIN. CALIPER	CONTAINER	MIN. SIZE	SF / PNTS EACH	SF / PNTS PROVIDED
	JV	7	Juniperus virginiana 'Brodie' 'Brodie' Eastern Red Cedar	1.5" Cal.	Cont. or B&B	6'-8" HT	200	1400
	LI	1	Lagastroemia indica 'Sioux' 'Sioux' Crape Myrtle	1.5" Cal.	Cont. or B&B	6'-8" HT	100	100
	QP	2	Quercus phellos Willow Oak	1.5" Cal.	Cont. or B&B	6'-8" HT	200	400
	UP	8	Ulmus parvifolia Lacebark Elm	1.5" Cal.	Cont. or B&B	6'-8" HT	200	1600
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	MIN. SIZE @ PLTG	SPACING		SF / PNTS EACH	SF / PNTS PROVIDED
	HM	27	Hydrangea macrophylla Lacecap Hydrangea	18" Ht.	Per Plan		10	270
	IC	11	Ilex cornuta 'burfordii' Burford Holly	36" Ht.	Per Plan		10	110
	IV	27	Ilex vomitoria 'Nana' Dwarf Yaupon	18" Ht.	Per Plan		10	270
	MP	5	Myrica pusilla Dwf. Wax Myrtle	36" Ht.	Per Plan		10	50
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	SPACING		TOTAL:	4,200 SF/PT
	LM	180	Liriope Muscari 'Super Blue' 'Super Blue' Liriope	1 gal.	15" O.C.			
	SS	2,990 sf	Cynodon dactylon Tifway 419' Tifway 419' Bermuda Grass	Sod	Solid Coverage			
	RM	148 sf	River Rock: 1"-2" River Rock over Weed Fabric. Contractor to provide samples to owner for approval.					



A. GENERAL	1. QUALIFICATIONS OF LANDSCAPE CONTRACTOR 1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING. 2. ALL SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES. 3. LANDSCAPE CONTRACTOR SHALL PROVIDE THE CONTRACTOR'S LICENSE ISSUED BY THE STATE OF TEXAS CONTRACTOR STATE LICENSE BOARD. 2. SCOPE OF WORK WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE PLANS, EXCEPT NOTES, AND DETAILS. 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND ORDINANCES REQUIRING ALL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT, INCLUDING INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS. 4. LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.	B. SUBMITTALS 1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL, IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES. 2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STRIP FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED WOODS, SOIL, TEST RESULTS AND PREPARATION RECOMMENDATIONS UNDER THE TESTING LABORATORY, COMPOST AND MULCH, AND PLANT NAMES AND TYPES, AND OTHER AMENDMENTS FOR TREES/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE. 3. SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY). 4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED. C. GENERAL PLANTING 1. EXCEPT WHERE SHOWN OTHERWISE, ALL TREES, SHRUBS AND STAKES FROM PLANTS. 2. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE. 3. TRENCING NEAR EXISTING TREES: a. CONTRACTOR SHALL NOT DISTURB ROOTS 1'-12" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL CAREFULLY EXCAVATE AND BACKFILL WITH PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1/2 OF EVERY 1" OF TRUNK DIAMETER.
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A. ALL MANUFACTURED PRODUCTS SHALL BE PLANTS.

B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:

1. PLANTS MUST BE SUPPLIED WITH ANTI-SHOCK PLUGS COMING WITH ANSI Z60.1-2014. PROVIDE WRAP-SHIPPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SURGICAL SCARS, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPOILS SHED SHALL HAVE A MINIMUM CALIPER OF 6" FOR A FORM TYPE FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMATIC CONDITIONS.

2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POUT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).

3. ROOTS MAY BE TRIMMED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.

4. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLENISHABLE AT AN ACCEPTABLE RENT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE SUBJECT TO THE ACCEPTANCE OF THE PLANTS.

5. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS BEFORE PLANTING.

6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.

7. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL, WHERE CALIPER MEASUREMENTS ARE USED. THE CALIPER SHALL BE CALCULATED AS THE AVERAGE OF THREE CALIPER MEASUREMENTS. CALIPER MEASUREMENTS SHALL BE:

a. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.

C. SOIL SHALL BE WELL-ROOTED SOIL OF THE VARIETY NOTED ON THE SPOILS SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOIL SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOIL.

D. PLANTS MUST BE SPECIES AND VARIETIES AS NOTED ON THE SPOILS. PLANTS MUST BE 100% PERCENTAGE OF PURELY GERMINATION, AND MINIMUM PERCENTAGE OF WEED SEED AS INDICATED ON EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE COMPOSITION OF THE SPOILS.

E. SPOILS: SANDY TO CLAY LOAM TOPSOIL, SAND FREE OF STONES LARGER THAN 1/8" INCH, FOREIGN MATTER, AND SEEDS, ROOTS, AND SEEDS.

F. COMPOST: WELL-COMPOSTED, STABLE, AND WEE-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT: 30 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4" INCH SIEVE.

G. PALETTE CONTENT: NO PLANTS, NO PLANT DISCISEMENT, NO PLANT DISCISEMENT, NO PLANT DISCISEMENT, AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL/GRAZING PRODUCTS SHALL BE USED.

H. PLANTING MIX FOR POTS: AN EQUAL PART MIXTURE OF TOPSOIL, SAND, AND COMPOST. INCORPORATE "GELSCAPE" AS MADE BY AMERCO, INC., (800) 832-8788, AT THE RATE OF 3 LB. PER CUBIC YARD OF PLANTING MIX.

I. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).

J. MULCH: MULCH SHALL BE MANUFACTURED BY THE LUTZ CORP. (800) 203-7740, OR APPROVED EQUAL.

K. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.

L. MULCH: MULCHING AND GULCHING:

1. STAKES: 6" LONG GREEN METAL POSTS.

2. STAKE AND WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, .016 INCH DIAMETER.

3. GRAP CHAFING GARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDTH, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.

M. STEEL: STEEL EDGING: 14 GAUGE, 1/4" THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COI-MET OR APPROVED EQUAL.

N. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR USE ON ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELLED RATES.

O. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER THE ROOTS. WRAP EXPOSED ROOTS WITH 1/2" THICK POLYETHYLENE FILM OF BURAP AND ALLOWED TO CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.

P. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND KEPT MOIST TO AIR-DRY. DO NOT USE AN SHARP TOOLS OR WOUND PILES.

Q. TREE PLANTING:

1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL AND 40% DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.

2. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.

3. FOR CONTAINING AND BURLAPPED TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE AT 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS FROM THE ROOTBALL.

4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.

5. BACKFILL THE TREE WITH EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM ANOTHER SOURCE. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.

6. TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKING. STAKES SHALL BE PLACED TO THE POINT OF STAKING BE REQUIRED. THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT WITH A NEW ONE. TREES SHALL BE STAKED TO ADHERE TO THE FOLLOWING GUIDELINES:

a. #15 CONT. - 2" X 8 BOX TREES - TWO STAKES PER TREE

b. #15 CONT. - 2" X 8 BOX TREES - TWO STAKES PER TREE

c. OVER 4" BOX TREES - SIX AS NEEDED

d. MULTI-TRUNK TREES - THREE STAKES PER TREE, MINIMUM QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE

E. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).

F. SHRUB, PERENNIAL, AND TREE COVER:

1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEPTH THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH MULCH ENDED PER PLANS TEST RECOMMENDATIONS.

2. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.

G. SODDING:

1. SOIL VARIETY TO BE AS SPECIFIED ON THE LIGHTSPLY PLAN.

2. LAY SOD WITHIN 24 HOURS OF THE DATE OF STAKING. DO NOT LAY IF THE GROUND IS FROZEN.

3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STAKES DO NOT OVERLAP - STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.

4. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.

5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.

H. GROUNDSEEDING:

1. TURF HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:

a. WINTER MIX (OCTOBER 1 - MARCH 31):

50# CELLULOSE FIBER MULCH

25# UNHILLED BERMAUDA SEED

2# ANNUAL RYE SEED

15# 15-15 WATER SOLUBLE FERTILIZER

b. SUMMER MIX (APRIL 1 - SEPTEMBER 30):

50# CELLULOSE FIBER MULCH

25# HILLED BERMAUDA SEED

15# 15-15 WATER SOLUBLE FERTILIZER

2. SEED HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:

a. GENERAL:

1. SOIL PREPARATION

a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.

b. SOIL TESTING

a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE SHIRT OF SOIL TAKEN FROM BETWEEN THE FINISH GRADE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.

b. THE CONTRACTOR SHALL HAVE THE SOIL TESTED LABORATORY SEND THE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, PH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.

c. THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.

d. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING AS APPROPRIATE: SEPARATE SOIL PREPARATION FOR EACH GRADE, SOIL RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED MATTERS. THE REPORT SHALL ALSO INCLUDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.

2. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL CONDITIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.

3. FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:

a. INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 6" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-BRIDGING:

i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.

ii. PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.

iii. "CLAY BUSTER OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE

b. TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 6" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-BRIDGING AFTER THE FOLLOWING:

i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.

ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.

iii. CLAY BUSTER OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE

iv. IRON SULPHATE - 2 LBS. PER CU. YD.

4. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.

a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +0.1' OF FINISH GRADE. SEE SPECIFICATION FOR MORE DETAILED INSTRUCTION ON HOW TO CONSTRUCT AND MAINTAIN FINISH GRADES.

b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE STRUCTURAL DRAINAGE AND SLOPES AS SPECIFIED ON THE GRADING PLANS. THE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.

c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE APPLIED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.

d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE. IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.

e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE TURF. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.

f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE LANDSCAPE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.

5. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

6. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE TRINGS.

7. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.

8. CLEAN UP

i. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS CLEAN.

ii. A NEAT, ORDERLY WORK AREA SHALL BE MAINTAINED THROUGHOUT THE PROJECT.

9. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.

10. INSPECTION AND ACCEPTANCE

a. WHEN THE LANDSCAPE MAINTENANCE PERIOD WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.

b. WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.

c. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.

11. LANDSCAPE MAINTENANCE

a. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEFORE FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESEEDING AREAS WHICH HAVE NOT BE DETERMINED WELL, AND FOR THE PROTECTION OF TREES AND PLANTS FROM REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKSMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, AND SHALL MAINTAIN ALL SLOPES BY SEASON TO MAXIMIZE WATER CONSERVATION.

b. SHOULD SEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.

12. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST BE MET:

a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PROVIDED FOR FINAL ACCEPTANCE.

b. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.

c. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1/2 INCHES ABOVE THE SURFACE OF THE SOIL. TURF AREAS MUST SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESEDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEARLY FULLY ESTABLISHED.

13. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS

a. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDS, HYDRANGEA, AND AREAS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIED AT THAT TIME, THERE BEING NO GUARANTEE FOR THE DEATH OF TREES OR PLANTS DURING THE YEAR.

b. AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE TRACED TO OTHER CAUSES, SUCH AS OTHER DAMAGE BY HUMANS OR ANIMALS.

14. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.

1. ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE.
3. ALL TREES OR SAMPLES OF TREES TO BE PLANTED SHALL BE IDENTIFIED BY SPECIES, SIZE, AGE, AND RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SOED AREAS AS MAY BE APPROPRIATE).
4. SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
5. THERE WERE MULTIPLE ITEMS SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.
- C. GENERAL PLANTING:
 1. REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
 2. PLANT TREES IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
 3. TREENCHING NEAR EXISTING TREES:
 - a. TREENCHING SHALL NOT DISTURB ROOTS 1'-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA WITH A RADIUS OF 1' FROM THE TREE TRUNK, WITH AN ADDITIONAL 1" TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BRIST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
 - b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TREENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
 - c. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1'-1/2" AND LARGER IN DIAMETER, WHERE TREE ROOTS 1'-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE STEEL TUNNEL UNDER SUCH TREES. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
 - d. ALL SEVERED ROOTS SHALL BE PROTECTED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

1. REMOVE, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES. SCARE THE SOIL SURFACE TO A DEPTH OF FIFTY FEET HIND THE PLACEMENT OF THE TREE.

2. INSTALL ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.

3. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY IRDING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHED A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES. JUST BEFORE PLACING INTO THE PLANTING PIT, DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.

4. IF THE TREE IS SURROUNDING SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.

5. BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF THE SAME TEXTURE AND COMPOSITION AS THE ON-SITE SOIL.

6. TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF STAKES (BEFORE OR AFTER TEXTURING) USED WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:

- a. #16 CONT. - 24" BOX TREES TWO STAKES PER TREE
- b. 36"-48" BOX TREES THREE STAKES PER TREE
- c. OVER 48" BOX TREES FIVE STAKES PER TREE
- d. MULTI-TRUNK TREES THREE STAKES PER TREE MINIMUM. QUANTITY AND POSITIONS AS NEEDED TO STAKE THE TREE.

7. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).

E. SHRUBS

1. OVERLAP AND COVER PLANTING AREA.

2. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.

3. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.

F. SODS

1. SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.

2. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE FROZEN IS FROZEN.

3. LAY SOD SO TO COVER THE SOD MASS WITH 1" TO 1 1/2" FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.

4. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL BENEATH.

5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.

G. HYDROMULCH

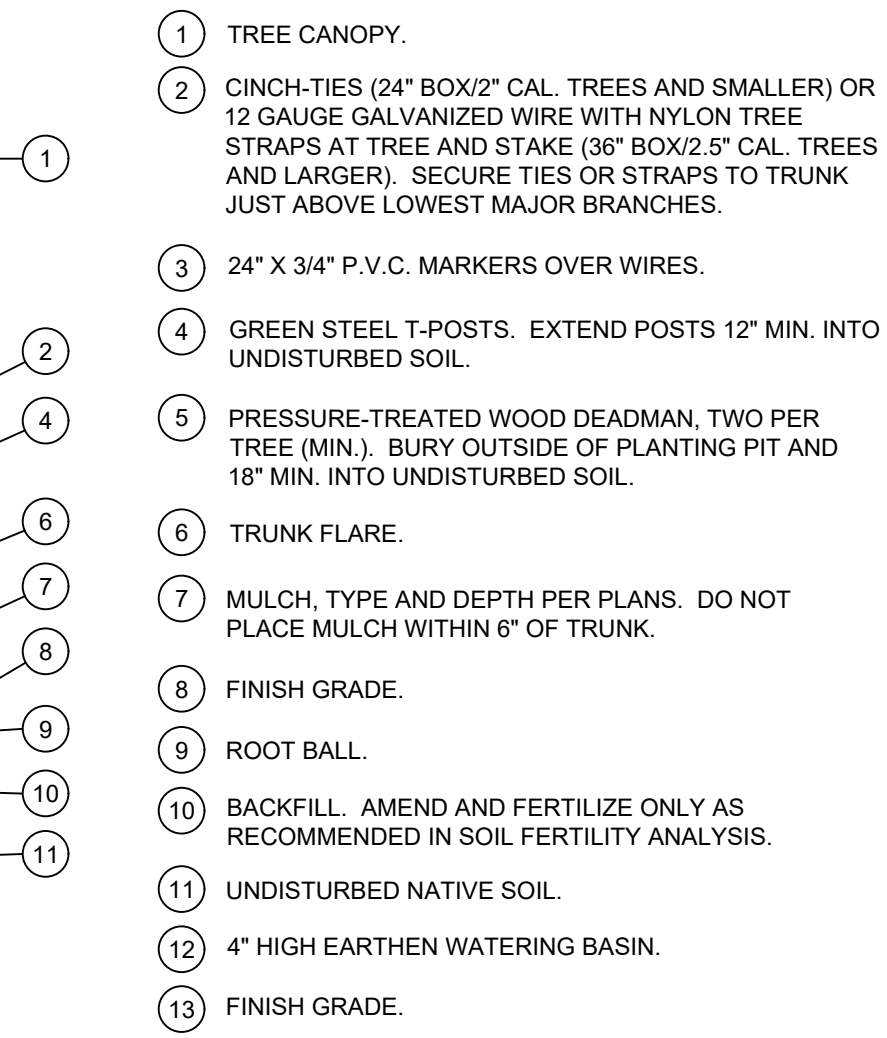
1. TURF HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:

- a. WINTER MIX (OCTOBER 1 - MARCH 31)
 - 15# CELLULOSE FIBER MULCH
 - 2# UNHILLED BERBERMUDA SEED
 - 2# ANNUAL RYE SEED
 - 15# 15-15-15 WATER SOLUBLE FERTILIZER
- b. SUMMER MIX (APRIL 1 - SEPTEMBER 30)
 - 15# CELLULOSE FIBER MULCH
 - 2# HILLED BERBERMUDA SEED
 - 15# 15-15-15 WATER SOLUBLE FERTILIZER

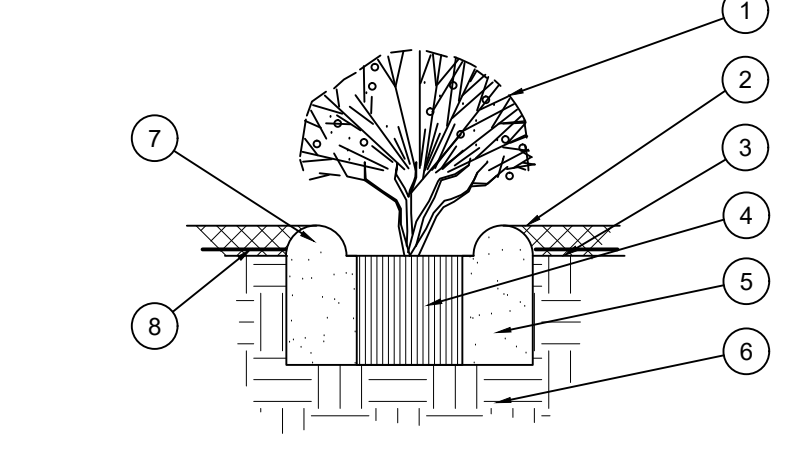
2. GENERAL HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:

- a. WINTER MIX (OCTOBER 1 - MARCH 31)
 - 50# CELLULOSE FIBER MULCH
 - 15# 15-15-15 WATER SOLUBLE FERTILIZER
- b. SUMMER MIX (APRIL 1 - SEPTEMBER 30)
 - 50# CELLULOSE FIBER MULCH
 - 15# 15-15-15 WATER SOLUBLE FERTILIZER

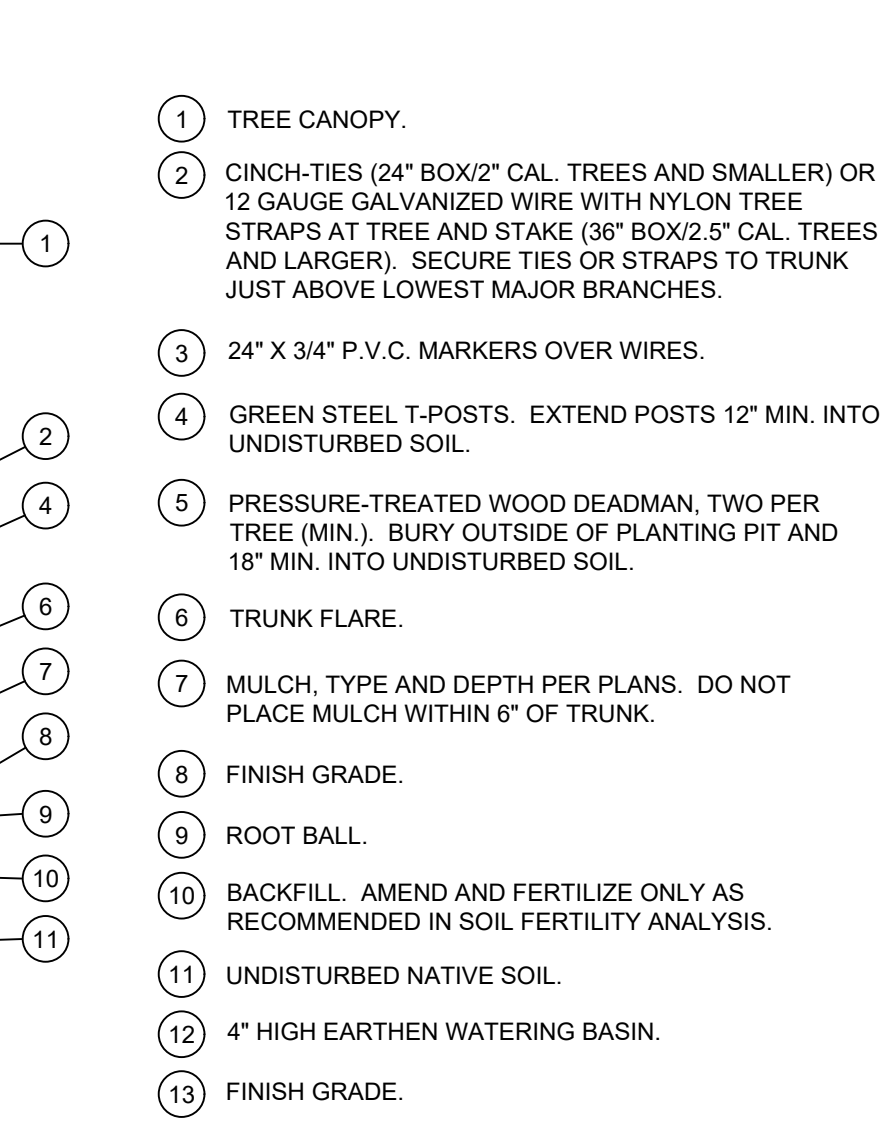
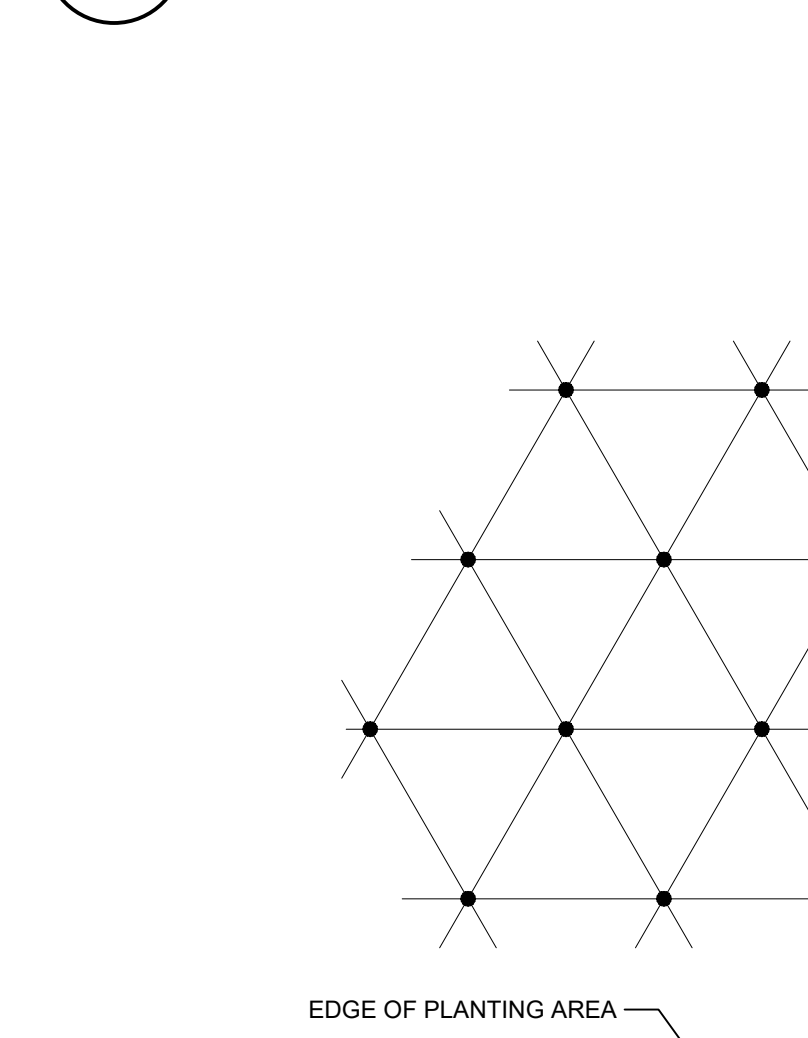
SEED RATE PER LEGEND



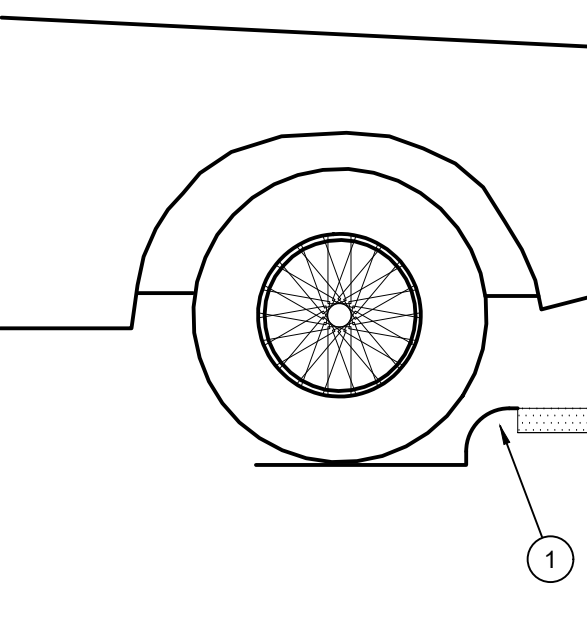
A cross-sectional diagram of a composite material structure. The diagram shows a central core (1) with a textured, fibrous appearance. This core is surrounded by a layer (2) with a wavy, undulating interface. Above the core, a layer (3) is shown with a similar wavy interface. To the left, a layer (4) is shown with a wavy interface. Below the core, a layer (5) is shown with a wavy interface. To the right, a layer (6) is shown with a wavy interface. A layer (7) is shown at the bottom, with a wavy interface. The entire structure is supported by a base (8) with a wavy interface.



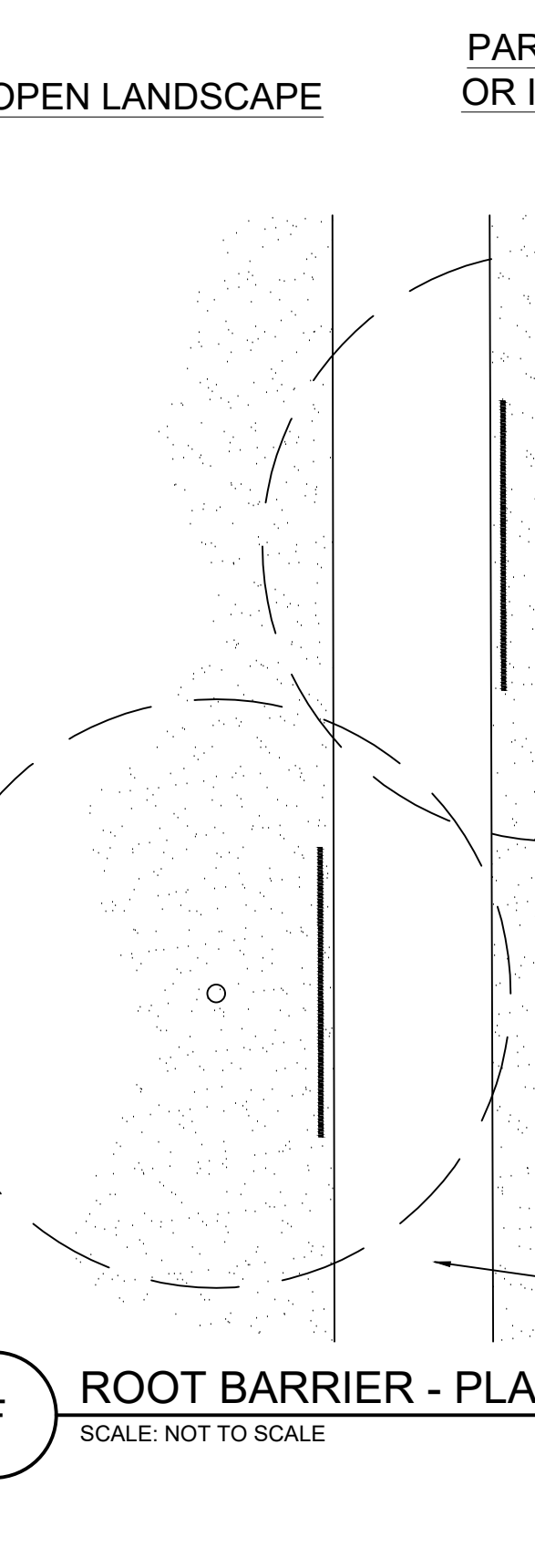
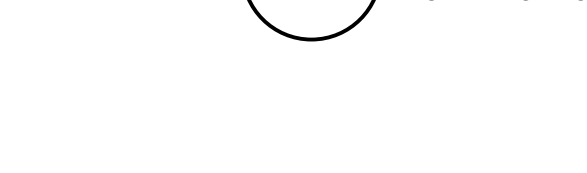
EDGE OF PLANTING AREA



10



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SCALE: NOT TO SCALE

