PLANT LEGEND SYMBOL BOTANIC NAME SPACING QUANTITY REMARKS **COMMON NAME** CER TXA | CERCIS CANADENSIS TEXENSIS **TEXAS REDBUD** 3" cal., 8'-10' high AS SHOWN CHI LIN | CHILOPSIS LINEARIS **DESERT WILLOW** 3" cal., 8'-10' high AS SHOWN | 3" cal., 10'-12' high | AS SHOWN QUE TEX QUERCUS TEXANA **TEXAS RED OAK** 25

CEDAR ELM

NOTE: ALL TREES SHALL BE CONTAINER-GROWN, CONTAINER SIZE AS APPROPRIATE FOR THE CALIPER SPECIFIED. SEE SPECIFICATIONS FOR PROPER ROOT QUALITY. SHRUBS

3" cal., 10'-12' high | AS SHOWN

Edging

SUKUDS					
ABE EDG	ABELIA X 'EDWARD GOUCHER'	EDWARD GOUCHER ABELIA	#5 cont.	36" O.C.	189
HES PAR	HESPERALOE PARVIFLORA	RED YUCCA	#5 cont.	60" O.C.	10
ILE NAN	ILEX CORNUTA 'BURFORDII'	BURFORD HOLLY	#5 cont.	36" O.C.	97
ILE NEL	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY	#10 cont.	48" O.C.	36
LEU FFI	LEUCOPHYLLUM FRUTESCENS 'SAN ANTONIO ROSE'	SAN ANTONIO ROSE TEXAS SAGE	#5 cont.	36" O.C.	41
SPI REE	SPIRAEA CANTONIENSIS	BRIDAL WREATH SPRIEA	#3 cont.	48" O.C.	25
PERENNIAL	LS AND ORNAMENTAL GRASSES				
BOU CLR	BOUTELOUA CURTIPENDULA	SIDE OATS GRAMA	#1 cont.	36" O.C.	13
BOU GLO	BOUTELOUA GRACILIS 'BONDE AMBITION'	BLONDE AMBITION BLUE GRAMA	#1 cont.	36" O.C.	50
LAN HOR	LANTANA HORRIDA	TEXAS LANTANA	#1 cont.	24" O.C.	310
NAS TEN	NASSELLA TENUISSIMA	MEXICAN FEATHER GRASS	#1 cont.	36" O.C.	77
PEN HAM	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN FOUNTAIN GRASS	#1 cont.	36" O.C.	74
SAL GRE	SALVIA GREGGII	AUTUMN SAGE	#1 cont.	48" O.C.	45
TURF AND	SEED				
Ψ Ψ Ψ Ψ Ψ	Cynodon 'TifTuf'	Common Bermuda Grass	Sod		19,775 SF
AGGREGAT	E / STEEL EDGING				
	Decomposed Granite	ASTM C136 - or Equivalent	Aggregate	4" Depth	1,272 SF

LANDSCAPE CALCULATIONS

ULM CRA ULMUS CRASSIFOLIA

PERIMETER TREES

FRONTIER PARKWAY

FRONTAGE LENGTH: STREET TREES REQUIRED: STREET TREES PROVIDED: SHRUBS REQUIRED

EASTERN STREET BOUNDARY FRONTAGE LENGTH: STREET TREES REQUIRED:

SHRUBS PROVIDED:

STREET TREES PROVIDED: SHRUBS REQUIRED SHRUBS PROVIDED:

WESTERN PROPERTY BOUNDARY FRONTAGE LENGTH: STREET TREES REQUIRED: STREET TREES PROVIDED: SHRUBS REQUIRED:

DRIVE THRU REQUIREMENTS ISLAND LENGTH: TREES REQUIRED:

SHRUBS PROVIDED:

SHRUBS REQUIRED: SHRUBS PROVIDED: INTERIOR PARKING

TREES PROVIDED:

REQUIRED LANDSCAPE AREA: TREES PROVIDED: TREES REQUIRED: TREES PROVIDED: **HEADLIGHT SCREENING:** SHRUBS PROVIDED:

Scale 1" = 20'

7 TREES (1 PER 30 LF OF FRONTAGE) $\frac{191}{30}$ = 6.37 7 TREES

96 SHRUBS (15 SHRUBS PER 30 LF OF FRONTAGE)6.37x15= 95.55 102 SHRUBS

ASTM C136 - or Equivalent

252 LF (MINUS DRIVEWAY LENGTHS) 9 TREES (1 PER 30 LF OF FRONTAGE) $\frac{252}{30}$ =8.4

126 SHRUBS (15 SHRUBS PER 30 LF OF FRONTAGE)8.4x15=126

7 TREES (1 PER 30 LF OF FRONTAGE) $\frac{190}{30}$ =6.33

7 TREES

95 SHRUBS (15 SHRUBS PER 30 LF OF FRONTAGE)6.33x15=95 36* DUE TO SITE CONSTRICTIONS W/ PLANT HEIGHT INCREASE

7 TREES (1 PER 15 LF OF ISLAND) $\frac{103}{15}$ =6.86 7 TREES

35 SHRUBS (@36" O.C.) ¹⁰⁸/₃=34.33

94 SHRUBS

139 ($\frac{415}{3}$ =138.33)

15 SF PER EACH PARKING STALL 615 SF REQUIRED / 4,465 PROVIDED 1 TREE PER 10 PARKING STALLS 4.1 TREES REQUIRED / 5 TREES PROVIDED SHRUBS @ 36" O.C. FULL LENGTH OF PARKING - 415 LF

GENERAL GRADING AND PLANTING NOTES

GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.

- 1. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT. 2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO
- 3. 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. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL
- LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION. 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 AND ON THE GRADING
- PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL. 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 ADDED (BASED
- ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED. 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
- 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 WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS. 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, GENERAL CONTRACTOR, AND OWNER. 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,
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.
- 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).
- 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 DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.

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. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

TOWN OF PROSPER LANDSCAPE GENERAL NOTES:

1,272 LF

 PLANT MATERIAL SHALL BE MEASURED AND SIZED ACCORDING TO THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1)

EVERGREEN

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- ALL PLANT SUBSTITUTIONS ARE SUBJECT TO TOWN APPROVAL AND MUST BE SPECIFIED ON THE APPROVED
- OF PLANTING AND MAINTAIN ADEQUATE COVERAGE AS APPROVED BY THE TOWN. TREES MUST BE PLANTED FOUR (4) FEET OR GREATER FROM CURBS, SIDEWALKS, UTILITY LINES, SCREENING WALLS, AND ALL STRUCTURES. SINGLE-TRUNK TREES SHALL HAVE A SINGLE, STRAIGHT LEADER, AND ALL TREES SHALL BE FULL, WITH BALANCED CANOPY. MAJOR DAMAGE TO TRUNK(S), OR BRANCHES, WILL BE
- ALL ROOT FLARES SHALL BE SET AT THREE(3) TO FOUR (4) INCHES ABOVE SURROUNDING GRADE THE TREE PIT SHALL BE BACKFILLED WITH NATIVE TOPSOIL FREE OF ROCK AND OTHER DERIS.
- BURLAP, TWINE, AND WIRE BASKETS SHALL BE SEVERED AND REMOVED FROM THE TOP OF THE ROOT BALL. A 3"-4" LAYER OF MULCH SHALL BE PROVIDED AROUND THE BASE OF THE PLANTED TREE. THE MULCH SHALL
- BE PULLED BACK 1"-2" FROM THE TRUNK OF THE TRREE. NO PERSON(S) OR ENTITY MAY USE IMPROPER OR MALICIOUS MAINTENANCE OR PRUNING TECHNIQUES INCLUDING, BUT NOT LIMITED TO:: TOPPING OR OTHER NON SYMMETRICAL TRIMMING OF TREES, DAMAGE FROM A BACKHOE, CAUSE OF FIRE OR POISON. FOLLOW THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1) GUIDELINES ON PRUNING AND MAINTENANCE.
- TOPSOIL SHALL BE A MINIMUM OF EIGHT (8) INCHES IN DEPTH IN PLANTING AREAS. SOIL SHALL BE FREE OF STONES, ROOTS, AND CLODS AND ANY OTHER FOREIGN MATERIAL THAT IS NOT BENEFICIAL FOR PLANT
- ALL PLANT BEDS SHALL BE TOP-DRESSED WITH A MINIMUM OF THREE (3) INCHES OF MULCH. • TREES OVERHANGING WALKS AND PARKING SHALL HAVE A MINIMUM CLÉAR BRANCH HEIGHT OF SEVEN (7)
- FEET. TREES OVERHANGING PUBLIC STREET PAVEMENT DRIVE AISLES AND FIRE LANES SHALL HAVE A MINIMUM CLEAR BRANCH HEIGHT OF FOURTEEN (14) FEET
- A VISIBILITY TRIANGLE MUST BE PROVIDED AT ALL INTERSECTIONS, WHERE SHRUBS ARE NOT TO EXCEED THIRTY (30) INCHES IN HEIGHT, AND TREES SHALL HAVE A MINIMUM CLEAR TRUNK HEIGHT OF NINE (9) FEET. TREES PLANTED ON A SLOPE SHALL HAVE THE TREE WELL AT THE AVERAGE GRADE OF THE UPHILL SLOPE. ALL AREAS OF LESS THAN THREE (3) FEET IN WIDTH SHALL BE GRASS, GROUNDCOVER, OR SOME TYPE OF
- DECORATIVE RIVER ROCK, PAVERS, OR CONCRETE. THE OWNER, TENANT, AND/OR THEIR AGENTS, IF ANY, SHALL BE JOINTLY AND SEVERALLY RESPONSIBLE FOR THE MAINTENANCE, ESTABLISHMENT, AND PERMANENCE OF PLANT MATERIAL. ALL LANDSCAPING SHALL BE MAINTAINED IN A NEAT AND ORDERLY AT ALL TIMES INCLUDING, BUT NOT LIMITED TO, MOWING, EDGING,
- PRUNING, FERTILIZING, WATERING, DE-WEEDING, AND TRASH REMOVAL. • PLANT MATERIAL THAT IS DAMAGED, DESTROYED, OR REMOVED SHALL BE REPLACED WITH PLANTS MEETING MINIMUM SPECIFICATIONS PER LANDSCAPE PLAN. ALL TURF/GROUND COVER AREAS TO BE ESTABLISHED
- PRIOR TO RECEIPT OF CERTIFICATE OF OCCUPANCY, UNLESS OTHERWISE APPROVED BY THE TOWN • AN AUTOMATIC IRRIGATION SYSTEM SHALL BE PROVIDED TO IRRIGATE ALL LANDSCAPE AREAS INTO STREETS, SIDEWALKS, OR ALLEYS.
- NO PLANTING AREA S SHALL EXCEED 3:1 SLOPE (3 FT HORIZONTAL TO 1 FT VERTICAL).
- EARTHEN BERMS SHALL NOT INCLUDE CONSTRUCTION DEBRIS. ALL WALKWAYS SHALL MEET ADA AND TAS REQUIREMENTS.
- LANDSCAPE INSTALLATION MUST COMPLY WITH APPROVED LANDSCAPE PLANS, AND AS-BUILT PLANS SUBMITTED TO PARKS AND RECREATION, PRIOR TO FINAL ACCEPTANCE BY THE TOWN AND/OR OBTAINING A CERTIFICATE OF OCCUPANCY.
- FINAL INSPECTION AND APPROVAL OF SCREENING WALLS, IRRIGATION, AND LANDSCAPE IS SUBJECT TO ALL PUBLIC UTILITIES, INCLUDING BUT NOT LIMITED TO MANHOLES, VALVES, WATER METERS, CLEANOUTS, AND OTHER APPURTENANCES BEING ACCESSIBLE, ADJUSTED TO GRADE, AND TO THE TOWN OF PROSPER PUBLIC
- WORKS DEPARTMENT STANDARDS. IMPORTANT: MINIMUM STANDARDS FOR PLANTS, AS SET FORTH IN THE ZONING ORDINANCE AND APPROVED. LANDSCAPE PLANS ARE TAKEN SERIOUSLY BY THE TOWN AND PARKS AND RECREATION. INSTALLING INFERIOR PLANTS WITHOUT WRITTEN APPROVAL FROM A PARKS REPRESENTATIVE MAY RESULT IN REJECTION OF SOME OR ALL PLANTS, THEREBY DELAYING RECEIPT OF A CERTIFICATE OF OCCUPANCY. ARCHITECTS AND
- LANDSCAPE CONTRACTORS ARE STRONGLY ENCOURAGED TO NOTIFY THE PARKS DEPARTMENT TO DISCUSS POSSIBLE DEFICIENCIES PRIOR TO INSTALLATION. • CALL PARKS AND RECREATION AT (972-569-1160) AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE
- FOLLOWING INSPECTIONS" PROPOSED TRAIL ALIGNMENT
- BERM CONSTRUCTION & GRADING
- ESCROW RELEASE FINAL INSPECTION

BEARINGS SHOWN HEREON ARE TIED TO THE TEXAS COORDIN SYSTEM OF 1983 (NAD83(2011) EPOCH2013) NORTH CENTRAL ZO (4202) USING TOWN OF PROSPER GEODETIC CONTROL

N: 7141040.803 : 2480701.977 LEV: 615.09

E: 2482444.24 ELEV: 619.13

N: 7144654.054 E: 2492631.252 "X" CUT IN INLET ON THE EAST SIDE OF DALLAS NORTH TOLLWAY NORTHBOUND SERVICE ROAD, APPROXIMATELY 146 FEET SOUTH OF FRONTIER PARKWAY CENTERLINE. N: 7146308.56

CHECKED: SHEET

- QUALIFICATIONS OF LANDSCAPE CONTRACTOR ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM
- SPECIALIZING IN LANDSCAPE PLANTING. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID NURSERY AND FLORAL CERTIFICATE ISSUED BY THE TEXAS DEPARTMENT OF AGRICULTURE AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIDE APPLICATOR LICENSE ISSUED BY EITHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS
- STRUCTURAL PEST CONTROL BOARD. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION.
- 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 LANDSCAPE PLANS, NOTES, AND DETAILS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
- THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF

PRODUCTS

- ALL MANUFACTURED PRODUCTS SHALL BE NEW. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:
- FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMACTIC CONDITIONS.
- ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS). TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED
- ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTBLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY,
- OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL 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
- 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.

EVEN IF DETERMINED TO STILL BE ALIVE. SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND

- 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 ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
- 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.
- SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE
- ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN ½ INCH, FOREIGN MATTER,
- COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE
- 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).
- MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS. TREE STAKING AND GUYING
- STAKES: 6' LONG GREEN METAL T-POSTS. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH
- GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE. STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL.
- PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES

- 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.
- 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 QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE 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. THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.
- 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 AND BACKFILL MIX 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 ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR
- THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS FITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
- FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING: TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING
- NITROGEN STABILIZED ORGANIC AMENDMENT 4 CU. YDS. PER 1,000 S.F. PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP
- 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING: NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS, PER CU, YD.
- "CLAY BUSTER" OR EQUAL USE MANUFACTURER'S RECOMMENDED RATE IRON SULPHATE - 2 LBS. PER CU. YD. 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. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION. 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 AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL
- 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 ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED
- 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
- 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 WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
- 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, GENERAL CONTRACTOR, AND OWNER.
- 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.

- THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE. PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES. AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SEED AREAS AS MAY BE
- APPROPRIATE) SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY)
- WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.
- C. GENERAL PLANTING REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
- TRENCHING NEAR EXISTING TREES: CONTRACTOR 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 EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE
- ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
- 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 SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
- ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.
- TREE PLANTING TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE
- FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS. THE CONTRACTOR SHALL SHAVE 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

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

INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO

- BACKFILL THE TREE HOLE UTILIZING THE 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 OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
- 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 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 SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
 - TWO STAKES PER TREE a. 1"-2" TREES 2-1/2"-4" TREES THREE STAKES PER TREE

FOUR INCHES ABOVE THE SURROUNDING GRADE.

- TREES OVER 4" CALIPER GUY AS NEEDED MULTI-TRUNK TREES
- THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE #15 CONT. - 24" BOX TREES TWO STAKES PER TREE
- THREE STAKES PER TREE
- OVER 48" BOX TREES **GUY AS NEEDED** MULTI-TRUNK TREES
- THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE.
- COVER THE INTERIOR OF THE TREE RING WITH THE WEED BARRIER CLOTH AND TOPDRESS WITH MULCH (TYPE AND DEPTH PER PLANS). SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING 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
- INSTALL THE WEED BARRIER CLOTH, OVERLAPPING IT AT THE ENDS. UTILIZE STEEL STAPLES TO KEEP THE WEED BARRIER CLOTH IN PLACE. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.
- SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.

K. INSPECTION AND ACCEPTANCE

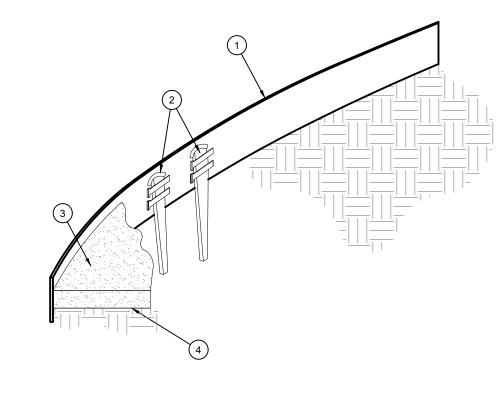
NEATLY MOWED.

- LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS - DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
- ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL
- 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.
- INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND
- 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.
- DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
- UPON COMPLETION OF THE 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. 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. 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.
- LANDSCAPE MAINTENANCE THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS 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 GERMINATED WELL, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON
- TO MAXIMIZE WATER CONSERVATION. SHOULD SEEDED 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.
- TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR

SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND

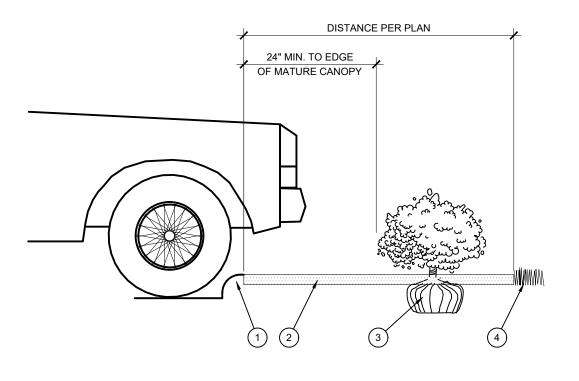
- REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE. HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE
- M. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, 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 DIE IN THAT TIME. OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD. THE LANDSCAPE
- CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS. 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.

CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH



- ROLLED-TOP STEEL EDGING PER PLANS.
- (2) TAPERED STEEL STAKES.
- (3) MULCH, TYPE AND DEPTH PER PLANS
- (4) FINISH GRADE.
- INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED BOTTOM OF EDGING SHALL BE BURIED A MINIMUM OF 1" BELOW FINISH GRADE. TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDGING.



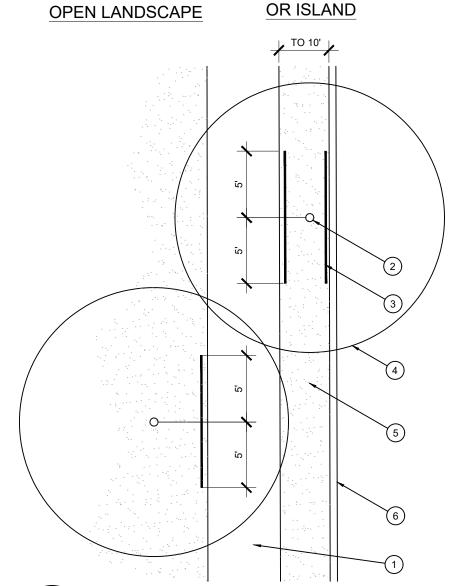


(2) MULCH LAYER (3) PLANT.

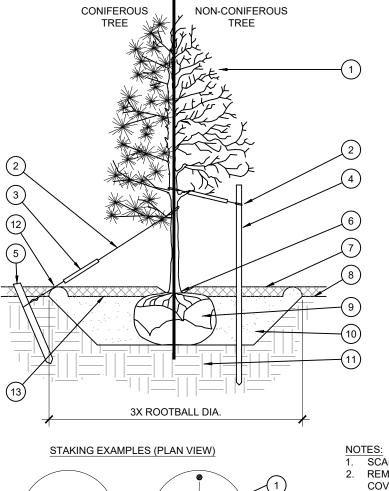
PARKWAY

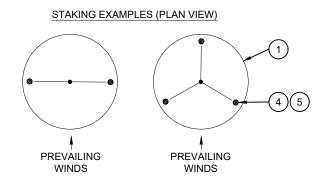
(4) TURF (WHERE SHOWN ON PLAN).

PLANTING AT PARKING AREA

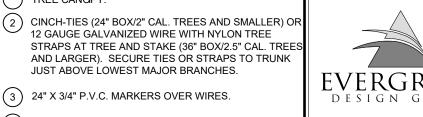


- (1) TYPICAL WALKWAY OR PAVING
- TREE TRUNK LINEAR ROOT BARRIER MATERIAL. SEE PLANTING NOTES FOR TYPE AND MANUFACTURER. INSTALL PER MANUFACTURER'S SPECIFICATIONS
- TREE CANOPY TYPICAL PLANTING AREA TYPICAL CURB AND GUTTER
- 1) INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL
- **ROOT BARRIER PLAN VIEW**



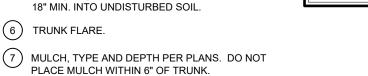


BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL. TREE PLANTING



VERGREEN

(4) GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO (800) 680-6630 15455 Dallas Pkwy., Ste 600 Addison, TX 75001 (5) PRESSURE-TREATED WOOD DEADMAN, TWO PER www.EvergreenDesignGroup.com



TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND

(8) FINISH GRADE

(9) ROOT BALL.

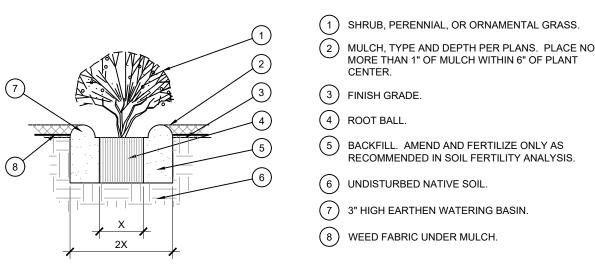
) TREE CANCIPY.

UNDISTURBED SOIL.

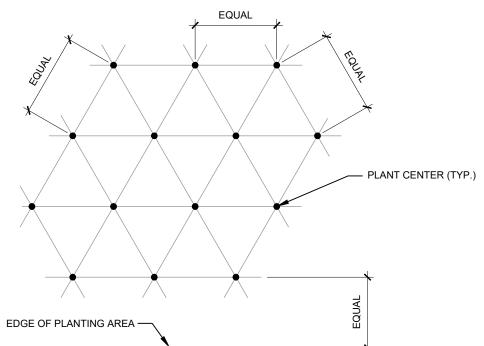
- (10) BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS
- (11) UNDISTURBED NATIVE SOIL.
- (12) 4" HIGH EARTHEN WATERING BASIN
- (13) FINISH GRADE.

SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 2"-4" ABOVE FINISH GRADE FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE. REMOVE ALL NYLON TIES. TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH

REMOVE ALL NURSERY STAKES AFTER PLANTING 5. FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE) SPACED EVENLY AROUND TREE 6. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.



SHRUB AND PERENNIAL PLANTING



5.41

7.79

NOTE: ALL PLANTS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING (EXCEPT WHERE SHOWN ON PLANS AS INFORMAL GROUPINGS). REFER TO PLANT LEGEND FOR SPACING DISTANCE BETWEEN PLANTS.

1) STEP 1: DETERMINE TOTAL PLANTS FOR THE AREA WITH THE FOLLOWING FORMULA: TOTAL AREA / AREA DIVIDER = TOTAL PLANTS 3.46

2) STEP 2: SUBTRACT THE ROW (S) OF PLANTS THAT WOULD OCCUR AT THE EDGE OF THE PLANTED AREA WITH THE FOLLOWING FORMULA: TOTAL PERIMETER LENGTH / PLANT SPACING = TOTAL PLANT SUBTRACTION

STEP 2: 51 PLANTS - (40 LF / 1.95 = 21 PLANTS) = 30 PLANTS TOTAL PLANT SPACING

STEP 1: 100 SF/1.95 = 51 PLANTS

0.87

EXAMPLE: PLANTS AT 18" O.C. IN 100 SF PLANTING AREA, 40 LF PERIMETER

BEARINGS SHOWN HEREON ARE TIED TO THE TEXAS COORDIN SYSTEM OF 1983 (NAD83(2011) EPOCH2013) NORTH CENTRAL ZO 4202) USING TOWN OF PROSPER GEODETIC CONTROL MONÚMENTS 3 AND 5

N: 7144654.054 l: 7141040.803 2480701.977 E: 2492631.252 LEV: 615.09 ELEV: 704.95 "X" CUT IN INLET ON THE EAST SIDE OF DALLAS NORTH TOLLWAY NORTHBOUND SERVICE ROAD, APPROXIMATELY 146 FEET SOUTH OF FRONTIER PARKWAY CENTERLINE. l: 7146308.56

ELEV: 619.13

CHECKED

SHEET

CONTROLLER NOTE

FIELD WITH OWNER'S REPRESENTATIVE.

LOCATE CONTROLLER AT LOCATION SHOWN ON PLAN. VERIFY LOCATION IN

120 VAC POWER TO CONTROLLER LOCATION IS NOT WITHIN THE IRRIGATION

LOCATION OF WIRE SLEEVE PENETRATIONS THROUGH BUILDING WITH OWNER

AND GENERAL CONTRACTOR. STATION RUN ORDER SHALL MATCH PLANS.

CONTRACTOR'S SCOPE OF WORK, AND SHALL BE PROVIDED BY OTHERS.

HOOK-UP OF CONTROLLER TO 120 VAC SHALL BE PERFORMED BY THE IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR SHALL COORDINATE

Turf Spray, 4in. Pop-Up, with 30 psi in-stem pressure regulation, and Flow-Shield Technology. 1/2in. NPT female threaded inlet.

Rain Bird RD-04-P30-F 8 Series MPR 8 8 8 Turf Spray, 4in. Pop-Up, with 30 psi in-stem pressure regulation, and Flow-Shield Technology. 1/2in. NPT female threaded inlet.

Rain Bird RD-04-P30-F 10 Series MPR Turf Spray, 4in. Pop-Up, with 30 psi in-stem pressure regulation,

and Flow-Shield Technology. 1/2in. NPT female threaded inlet. Rain Bird RD-04-P30-F 12 Series MPR

and Flow-Shield Technology. 1/2in. NPT female threaded inlet. Rain Bird RD-04-P30-F 15 Series MPR Turf Spray, 4in. Pop-Up, with 30 psi in-stem pressure regulation,

and Flow-Shield Technology. 1/2in. NPT female threaded inlet. Rain Bird RD-04-P30-F ADJ Turf Spray, 4in. Pop-Up, with 30 psi in-stem pressure regulation,

Turf Spray, 4in. Pop-Up, with 30 psi in-stem pressure regulation,

and Flow-Shield Technology. 1/2in. NPT female threaded inlet.

CST Q H F Rain Bird 1804-5 Series Stream Stream Bubbler 4.0in. popup.

1" 7.09

2

1" 4.59

3

1½" 8

1" 6.25

5

1" 6

18

MANUFACTURER/MODEL/DESCRIPTION SYMBOL

Rain Bird 5004-PC-LA 1.5

Turf Rotor, 4.0in. Pop-Up, Plastic Riser. Adjustable to Full Circle. Low Angle Nozzle.

SYMBOL MANUFACTURER/MODEL/DESCRIPTION

> Rain Bird XCZ-100-IVMQ 1" Wide Flow IVM Drip Control Kit for Commercial Applications. 1in. Ball Valve with 1in. PESBIVM Smart Valve w/ factory installed IVM-SOL 0.3-20 gpm and 1in. Pressure Regulating 40psi

Quick-Check Basket Filter 0.3-20 gpm

Area to Receive Dripline Rain Bird XFCV-06-18 XFCV On-Surface Landscape Dripline with a Heavy-Duty 3.5 psi Check Valve. 0.6 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Great for elevation change. Specify XF insert fittings.

Area to Receive Dripline Rain Bird XFS-CV-06-12

XFS-CV Sub-Surface and On-Surface Landscape Dripline with a Heavy-Duty 4.3 psi Check Valve. 0.6 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. Specify XF insert fittings.

SYMBOL MANUFACTURER/MODEL/DESCRIPTION

Shut Off Valve

Rain Bird PGA Globe 1" 1in., 1-1/2in., 2in. Electric Remote Control Valve, Globe.

Rain Bird PGA Globe 1-1/2" 1in., 1-1/2in., 2in. Electric Remote Control Valve, Globe,

Rain Bird 300-BPES Globe 3" 3in. Brass Master Valve, with Globe Configuration. With a Patented Nylon Scrubber that Scrapes a Stainless Steel Screen

to Prevent Debris Build-Up and Clogging.

Febco 825YA 2"

Reduced Pressure Backflow Preventer Rain Bird ESPLXME2P w/ (1) ESPLXMSM12

24 Station, Traditionally-Wired, PRO Smart, Commercial Controller. (1) ESPLXME2P 12-Station, PRO Smart, (Module Included) Indoor/Outdoor, Plastic Wall-Mount Enclosure w/ (1)

Rain Bird WR2-RFC

Wireless Rain and Freeze Sensor Combo, includes 1 receiver and 1 rain/freeze sensor transmitter.

ESPLXMSM12 - 12-Station Expansion Modules.

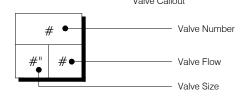
Rain Bird FS-100-B

1in. Flow Sensor, Brass Model. Suggested Operating Range 2.0 GPM to 40.0 GPM. Size for Flow Not According to Pipe Size. Rain Bird Compatible Controllers: ESP-LXIVM(P) | LXD | LXME2(P) | ME3, or Controllers Accepting Custom K-Factor and Offset. Install in Rain Bird Valve Box.

Water Meter 2"

Irrigation Lateral Line: PVC Class 200 SDR 21 $\frac{3}{4}$ - 1-1/2"

Pipe Sleeve: PVC Schedule 40 - SEE PLAN FOR SIZE Valve Callout



Scale 1" = 20'

STUB-OUTS FOR TEMPORARY IRRIGATION

IRRIGATION DISCLAIMER

SLEEVING / WIRING NOTES:

CRITICAL ANALYSIS

MORE THAN 25 WIRES.

Generated:

P.O.C. NUMBER: 01

FLOW AVAILABLE Water Meter Size:

Flow Available

Water Source Information:

PRESSURE AVAILABLE

Static Pressure at POC:

Length of Service Line: Pressure Available:

DESIGN ANALYSIS

Critical Station: Design Pressure:

Friction Loss:

Fittings Loss:

Loss for Fittings:

Loss for Main Line:

Loss for Backflow:

Loss for Master Valve:

Loss for Water Meter:

Pressure Available:

Elevation Loss:

Loss through Valve:

Pressure Reg. at Critical Station:

Loss for POC to Valve Elevation:

Critical Station Pressure at POC:

Residual Pressure Available:

Maximum Station Flow:

Flow Available at POC:

Residual Flow Available:

Elevation Change:

Service Line Size:

STUB-OUTS FOR TEMPORARY IRRIGATION SHALL CONSIST OF THE

FOLLOWING: 1) BALL VALVE IN 6" ROUND VALVE BOX

2) TWO CONTROL WIRES AND TWO COMMON WIRES RUN FROM CONTROLLER, TERMINATING IN A 36" LENGTH OF EACH WIRE COILED IN A SEPARATE 6" ROUND VALVE BOX ADJACENT TO BALL VALVE BOX

CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION FOR TREES AND SEEDED AREAS, WHICH SHALL REMAIN ACTIVE AND IN PLACE THROUGH AT LEAST ONE FULL GROWING SEASON.

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN

PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FINAL QUANTITIES PER

WALKWAYS, THE IRRIGATION CONTRACTOR SHALL PROVIDE AND INSTALL SCH. 40 PVC

2023-07-17 00:35

120 GPM

3.00 ft

24.35 GPM

95.65 GPM

120 GPM

35 PSI

2.33 PSI

0.23 PSI

1.9 PSI

0.19 PSI

1.85 PSI

12.3 PSI

6.6 PSI

0.48 PSI

60.8 PSI

63 PSI

2.15 PSI

0 PSI

0 PSI

WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN

CONTRACTOR MAY BE REQURED TO MOVE SUCH ITEMS AT HIS OWN COST.

CONVENIENCE TO THE CONTRACTOR ONLY AND SHALL NOT BE CONSIDERED

IN ADDITION TO PROVIDING SLEEVES FOR ALL PIPING UNDER ROADWAYS AND

SLEEVES FOR ALL CONTROLLER WIRES OCCURRING UNDER ALL ROADWAYS AND

WALKWAYS. SLEEVES FOR CONTROLLER WIRES SHALL BE 2" DIA. AND CONTAIN NO

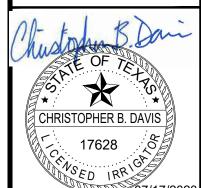
CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE

VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE

OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION

DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED ARE PROVIDED AS A





BEARINGS SHOWN HEREON ARE TIED TO THE TEXAS COORDINA SYSTEM OF 1983 (NAD83(2011) EPOCH2013) NORTH CENTRAL Z (4202) USING TOWN OF PROSPER GEODETIC CONTROL MONÚMENTS 3 AND 5:

OF FRONTIER PARKWAY CENTERLINE.

N: 7146308.56 E: 2482444.24 ELEV: 619.13

N: 7141040.803 E: 2480701.977 N: 7144654.054 E: 2492631.252 "X" CUT IN INLET ON THE EAST SIDE OF DALLAS NORTH TOLLWAY

NORTHBOUND SERVICE ROAD, APPROXIMATELY 146 FEET SOUT

CHECKED: SHEET

CONTRACTING FIRM SPECIALIZING IN IRRIGATION SYSTEMS. SEE THE IRRIGATION PLAN FOR SPECIFIC EQUIPMENT AND SYSTEM LAYOUT THE IRRIGATION CONTRACTOR MUST HAVE ON ITS STAFF A TEXAS LICENSED IRRIGATOR, AS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY. A LICENSED IRRIGATOR OR LICENSED IRRIGATION INSTALLER SHALL BE PRESENT AT THE PROJECT SITE AT ALL TIMES AS WORK IS IN PROGRESS. THE OWNER MAY DEMAND THAT WORK STOP UNTIL THE CONTRACTOR PROVIDES FOR A LICENSED IRRIGATOR OR LICENSED IRRIGATION INSTALLER TO BE PRESENT AT THE PROJECT SITE AND SUPERVISING ALL IRRIGATION WORK.

A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.

MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, FEES, AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE IRRIGATION PLANS, NOTES, AND DETAILS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS. IN CASE OF CONFLICT BETWEEN THESE PLANS AND LOCAL AND/OR STATE CODES, CODES SHALL

WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL

THE INTENT OF THE IRRIGATION SYSTEM IS TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS. THE IRRIGATION PLAN IS GENERALLY DIAGRAMMATIC; COORDINATE IRRIGATION INSTALLATION WITH UTILITY INSTALLATIONS. ACTUAL LOCATION OF CONTROLLER, BACKFLOW DEVICE, PIPING, VALVES, SPRAY HEADS, DRIP IRRIGATION, AND RELATED

FOR CLARITY PURPOSES. SOME IRRIGATION LINES AND EQUIPMENT ARE SHOWN IN HARDSCAPE AREAS WITHOUT ACCESS SLEEVES: THESE LINES SHALL BE INSTALLED IN A COMMON TRENCH OR AT THE BACK OF CURB IN LANDSCAPE AREAS. MINOR FIELD ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER

EQUIPMENT MAY NEED TO BE ADJUSTED BASED ON ACTUAL SITE CONDITIONS.

PRODUCTS

ALL MATERIALS SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS OF ANY TYPE AND SHALL BE THE BEST OF THEIR CLASS AND KIND. ALL MATERIALS SHALL HAVE A MINIMUM GUARANTEE OF ONE YEAR AGAINST MATERIAL DEFECTS OR DEFECTIVE WORKMANSHIP, ALL MATERIALS SHALL BI OF THE BRANDS AND TYPES NOTED ON THE DRAWINGS OR AS SPECIFIED HEREIN, OR APPROVED FOLIAL. THE CONTRACTOR MUST FIRST OBTAIN APPROVAL FROM THE IRRIGATION DESIGNER FOR AN 'APPROVED EQUAL' BEFORE INSTALLING SUCH MATERIALS IN THE FIELD, OR THE CONTRACTOR MAY BE REQUIRED TO REPLACE SUCH MATERIALS AT HIS OWN COST. BACKFLOW PREVENTION DEVICES SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS INSTALL BACKFLOW PREVENTION UNITS IN ACCORDANCE WITH IRRIGATION CONSTRUCTION

DETAILS AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. PRESSURE SUPPLY LINES, DOWNSTREAM OF THE POINT-OF-CONNECTION:

SCHEDULE 40 PVC FOR ALL PIPE 1-1/2" OR LESS CLASS 315 PVC FOR ALL PIPE 2" TO 2-1/2"

CLASS 200 PVC, GASKETED, FOR ALL PIPE 3" AND LARGER SLEEVING AND NON-PRESSURE LATERAL LINES (DOWNSTREAM FROM VALVES): SCHEDULE FITTINGS: SCH. 40 PVC, EXCEPT AS NOTED OTHERWISE.

VALVES AND DRIP VALVE ASSEMBLIES: TYPE AND SIZE AS NOTED ON PLANS. EACH VALVE SHALL BEAR A PRE-MANUFACTURED, NUMBERED WATERPROOF TAG BEARING A NUMBER CORRESPONDING TO ITS VALVE SEQUENCE OF OPERATION ON THE CONTROLLER. THE OPERATION SEQUENCE SHALL MATCH THAT AS SHOWN ON THE PLANS. QUICK COUPLERS, BALL VALVES, AND GATE VALVES: TYPE AND SIZE PER PLANS.

VALVE BOXES: TYPE AND SIZE AS NOTED ON DETAILS. ALL VALVES BOXES SHALL BE LOCKING BOLT-DOWN TYPE, FURNISHED WITH LIDS AND BOLTS. BOXES SHALL BE OF A SIZE TO CONTAIN THE ENTIRE VALVE AND/OR VALVE ASSEMBLY. THE VALVE BOX LID SHALL HAVE THE VALVE STATION NUMBER HEAT-BRANDED INTO THE LID WITH 2" HIGH LETTERS

FIXED SPRAY HEADS AND ROTORS: PLASTIC BODY POP-UP, WITH A REMOVABLE PLASTIC SPRAY NOZZLE, EXACT TYPE, MODEL, AND NOZZLE SHALL BE AS INDICATED ON PLANS. INTEGRAL EMITTER DRIP TUBING: TUBING MODEL AND FLOW RATE AS NOTED ON PLANS WITH INTEGRAL EMITTERS WELDED TO THE INSIDE WALL OF THE TUBING AS AN INTEGRAL PART OF THE TUBING ASSEMBLY AUTOMATIC CONTROLLER: TYPE AND MODEL PER PLANS. PROVIDE VANDAL-PROOF ENCLOSURE

FOR ALL EXTERIOR INSTALLATIONS. PROVIDE LINE-VOLTAGE DISCONNECT SWITCH WITH GROUND 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF #14 GAUGE, U.F. APPROVED FOR DIRECT BURIAL,

SINGLE CONDUCTOR IRRIGATION WIRE. EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR STATION AND COMMON WIRE. STATION WIRE - RED

COMMON WIRE - WHITE EXTRA COMMON WIRES - BLUE

WIRE SPLICES SHALL BE ENCASED IN A WATERPROOF COMPOUND OR GEL. ALL FIELD SPLICES SHALL BE LOCATED IN A 6 INCH ROUND VALVE BOX. RAIN SENSOR: TYPE AND MODEL PER PLANS.

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQURED TO MOVE SUCH ITEMS AT HIS OWN COST. ENSURE FIELD COORDINATION IS MADE EARLY ON IN THE CONSTRUCTION PHASE SO

THE IRRIGATION CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK, AND SHALL OBTAIN ALL ENGINEERING, LANDSCAPE, AND OTHER APPLICABLE PLANS & DOCUMENTS. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PLANS AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.

THE IRRIGATION CONTRACTOR SHALL NOT WILFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADES OR DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE IRRIGATION DESIGNER. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED. THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND NECESSARY COSTS SEE UTILITY PLANS FOR IRRIGATION POINTS OF CONNECTION (TAP) AND DOMESTIC WATER

THE IRRIGATION CONTRACTOR SHALL PAY ANY AND ALL FEES AND PERMITS ASSOCIATED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM.

AT LEAST SEVEN DAYS BEFORE BEGINNING WORK, CONFIRM THE STATIC WATER PRESSURE IS AT LEAST 65 PSI AND LESS THAN 70 PSI. IF STATIC WATER PRESSURE IS OUTSIDE OF THE STATED RANGE, DO NOT PROCEED WITHOUT FIRST NOTIFYING THE IRRIGATION DESIGNER AND OWNER IN WRITING, AND OBTAINING SUBSEQUENT DIRECTION FOR CORRECTIONAL MEASURES. SHOULD THE IRRIGATION CONTRACTOR CHOOSE TO BEGIN THE INSTALLATION WITHOUT SUCH NOTIFICATION, THE IRRIGATION CONTRACTOR WILL ASSUME THE RESPONSIBILITY FOR ALL COSTS INCURRED TO ENSURE THE SYSTEM IS WORKING PROPERLY. NO CHANGE ORDERS WILL BE AUTHORIZED IN

THE IRRIGATION 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. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES AND UTILITIES. COORDINATE WITH THE OWNER THE PROPOSED LOCATIONS OF THE AUTOMATIC CONTROLLER AND ANY REQUIRED SLEEVES THROUGH THE BUILDING FOR CONTROL WIRES.

TRENCHING NEAR EXISTING TREES: CONTRACTOR 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 EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK). ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE

EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ. 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 SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP

MOIST CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

BACKFILL

ALL BACKELL MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE OWNER BACKELL MATERIAL SHALL BE FREE FROM RUBBISH ROCK LARGER THAN 1" LARGE STONES BRUSH SOD, FROZEN MATERIAL OR OTHER UNSUITABLE SUBSTANCES THAT MAY DAMAGE PIPE DURING THE BACKFILLING OPERATIONS. SEPARATE OUT ROCKS LARGER THAN 1 INCH IN ANY DIRECTION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING. COVER FOR BOTH TOP AND SIDES OF PIPE SHALL BE A MINIMUM OF 2 INCHES OF ROCK-FREE SOIL, SAND, OR OTHER APPROVED MATERIAL

2. IN THE EVENT THAT THE MATERIAL FROM THE EXCAVATION OR TRENCHING IS FOUND TO BE UNSUITABLE FOR USE IN BACKFILL, IT SHALL BE REMOVED FROM THE SITE AND PROPERLY AND LEGALLY DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL THEN PURCHASE AND AND FURNISH SUITABLE BACKFILL MATERIAL CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND OR OTHER APPROVED MATERIALS FREE

BACKFLOW PREVENTER INSTALLATION: CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER SOURCES AT LOCATION SHOWN ON PLANS AND AS APPROVED BY THE OWNER, AND SHALL MAKE ANY MINOR CHANGES IN LOCATION AS MAY BE NECESSARY DUE TO ACTUAL SITE CONDITIONS. BACKFLOW PREVENTER HEIGHT SHALL BE AS PER LOCAL CODES AND IRRIGATION DETAILS. INSTALL A BRASS BALL VALVE IMMEDIATELY UPSTREAM OF THE BACKFLOW DEVICE TO SERVE AS AN ISOLATION VALVE. TO EVERY EXTENT POSSIBLE, INSTALL BACKFLOW PREVENTER ION A LOCATION SCREENED FROM PUBLIC VIEW (SUCH AS BEHIND A SHRUB ROW).

PIPE SIZE SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS FOR LARGER SIZES MAY BE MAINLINE PIPE AND WIRES SHALL BE INSTALLED WITH A MINIMUM COVER OF 18 INCHES.

LATERAL PIPE SHALL BE INSTALLED WITH A MINIMUM COVER OF 12 INCHES. ASSEMBLE ALL THREADED FITTINGS WITH TEFLON TAPE, WHICH SHALL BE APPLIED TO MALE THREADS ONLY. 4. ALL SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH APPROVED SOLVENT-WELD PRIMER

PIPE SHALL BE INSTALLED WITH A MINIMUM OF 4" HORIZONTAL CLEARANCE FROM ANY OTHER PIPE AND 2" VERTICAL CLEARANCE FROM ANY PIPES THAT CROSS OVER OR UNDER. VAI VES

VALVES SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND THE IRRIGATION VALVE BOXES SHALL BE INSTALLED FLUSH WITH THE GRADE, WITH CLEAN PEA GRAVEL LOCATED BELOW THE VALVE AS NOTED ON THE DETAILS. LOCATE BOXES WITHIN 12 TO 24" OF SIDEWALKS OR LANDSCAPE EDGES. WITH TOPS OF BOXES 1" ABOVE FINISH GRADE IN TURF, AND 3" ABOVE FINISH GRADE IN SHRUB AREAS (TO AVOID BEING COVERED BY MULCH). EACH VALVE BOX COVER SHALL BE HEAT-BRANDED WITH THE CONTROLLER STATION

4. DO NOT INSTALL MORE THAN TWO VALVES IN A JUMBO BOX. DRIP IRRIGATION EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND THE

SUBSURFACE DRIP LINES SHALL BE BURIED NO MORE THAN 2" BELOW FINISH GRADE DRIP LINES MOUNTED ON GRADE SHALL BE SECURED IN PLACE WITH WIRE STAPLES AT A MAXIMUM OF 48" ON CENTER

ALL SPRAY AND ROTOR HEAD LOCATIONS SHALL BE STAKED, FLAGGED AND/OR OTHERWISE CLEARLY MARKED ON THE GROUND PRIOR TO INSTALLATION. SPRINKLER HEAD STAKING SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE

2. ALL SPRAY HEADS SHALL BE CONNECTED WITH A 12 INCH MINIMUM LENGTH OF $\frac{1}{2}$ INCH FLEX PVC. THE FLEX PVC SHALL BE SOLVENT WELDED TO SCHEDULE 40 PVC FITTINGS WITH WELD-ON #795 SOLVENT AND #P-70 PRIMER. ALL ROTORS SHALL BE CONNECTED TO LATERAL LINES WITH PRE-MANUFACTURED SWING JOINTS.

3. ALL ROTOR, SPRAY AND BUBBLER HEADS SHALL BE SET PERPENDICULAR AND FLUSH TO FINISH GRADE AND WITH A CLEARANCE OF FOUR INCHES (MINIMUM) FROM THE EDGE OF ANY BUILDINGS, WALLS, BOULDERS, AND HARDSCAPE, UNLESS OTHERWISE SPECIFIED. ALL ROTOR, SPRRAY AND BUBBLER HEADS AND VALVES SHALL BE FLUSHED AND ADJUSTED FOR OPTIMUM COVERAGE WITH MINIMUM OVERSPRAY ON WALKS, STREETS, WALLS, ETC.

AUTOMATIC CONTROLLER: INSTALL THE CONTROLLER AT THE LOCATION INDICATED BY THE OWNER. INSTALL CONTROLLER WITH A BACKUP BATTERY AS RECOMMENDED BY THE MANUFACTURER.

THE IRRIGATION CONTRACTOR SHALL COORDINATE 120 V.A.C. ELECTRICAL POWER TO CONTROLLERS AND DEDICATE ONE (1) 20-AMP BREAKER FOR EACH CONTROLLER. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL SOURCE TO THE CONTROLLER UNIT ONLY.

ALL VALVE CONTROL WIRE SHALL BE AWG 14 TYPE UF, 600 VOLT TEST, DIRECT BURIAL. NO SPLICES SHALL BE ALLOWED EXCEPT AT VALVES AND CONTROLLER. WHERE SPLICES MAY BE NECESSARY DUE TO EXCESSIVELY LONG WIRE RUNS, THE CONTRACTOR SHALL MAKE ALL SPLICES IN 6" ROUND VALVE BOXES WITH 3M'S "DBY-DIRECT BURIAL SPLICE KIT". THE CONTRACTOR SHALL LABEL ALL WIRES WITH WATERPROOF TAGS AND MARKERS AT ALL SPLICES AND VALVE MANIFOLDS, AND SHALL LEAVE A 24" COIL OF EXCESS WIRE AT EACH CONNECTION.

PROVIDE #10 COMMON WIRE, DIRECT BURIAL, TO ALL REMOTE CONTROL VALVES. CONNECT ALL DIRECT BURIAL WIRES TO VALVES USING 3M'S "DBY-DIRECT BURIAL SPLICE KIT" (UNLESS OTHERWISE SPECIFIED).

PROVIDE THREE ADDITIONAL IRRIGATION CONTROL WIRES ALONG EACH BRANCH OF MAINLINE FOR FUTURE EXPANSION. STUB ADDITIONAL CONTROL WIRES INTO BACK OF IRRIGATION CONTROLLERS

THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL CONTROL WIRE SLEEVES AND PIPE SLEEVES UNDER PAVED AREAS PRIOR TO PAVING - SEE SLEEVING NOTES INSTALL THE RAIN SENSOR IN THE VICINITY OF THE CONTROLLER, AND COORDINATE LOCATION

WITH THE OWNER. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THE RAIN SENSOR IS PLACED IN A LOCATION WHERE IT CAN RECEIVE ADEQUATE RAINFALL WITHOUT OBSTRUCTIONS. IF IT IS PLACED IN AN INADEQUATE LOCATION, THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO RELOCATE IT AT NO ADDITIONAL COST TO THE OWNER

PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. QUALITY CONTROL PERFORM COVERAGE TESTS AFTER IRRIGATION SYSTEM IS COMPLETED, BUT PRIOR TO ANY

ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS

PLANTING AND PERFORM TESTING IN THE PRESENCE OF THE IRRIGATION DESIGNER AND THE TEST SYSTEM TO ASSURE THAT ALL LAWN AND PLANTING AREAS ARE WATERED

COMPLETELY AND UNIFORMLY. MAKE ALL NECESSARY ADJUSTMENTS TO PROVIDE COMPLETE COVERAGE, INCLUDING REALIGNMENT OF HEADS AND REPLACEMENT OF NOZZLES. CLEAN UP

DURING IRRIGATION EXCAVATION AND INSTALLATION, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE INSPECTION AND ACCEPTANCE

UPON COMPLETION OF THE WORK, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE IRRIGATION CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.

WHEN THE INSPECTED WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS. 3. THE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE WORK HAS BEEN RE-INSPECTED

ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE. 4. CONTROLLER CHART: THE IRRIGATION CONTRACTOR SHALL PROVIDE A 11" X 17" COLOR-CODED, LAMINATED COPY OF THE IRRIGATION LAYOUT AND PLACE IT IN THE

BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL

CONTROLLER'S COVER. THE CONTROLLER CHART SHALL CLEARLY DELINEATE THE AREAS COVERED BY EACH VALVE, USING A SEPARATE COLOR FOR EACH ZONE. 5. TURN THE FOLLOWING ITEMS IN TO THE OWNER UPON COMPLETION OF THE INSTALLATION:

CONTROLLER MANUAL (* CONTROLLER KEYS (2)

QUICK COUPLER KEYS (2)

A MINIMUM OF (2) COPIES OF RECORD DRAWINGS. 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.

REFER TO THE PLANTING SPECIFICATIONS FOR ADDITIONAL CONDITIONS OF FINAL ACCEPTANCE AND START OF THE MAINTENANCE PERIOD.

THE IRRIGATION SYSTEM SUPPLIED AND INSTALLED SHALL BE WARRANTED (LABOR AND MATERIALS) TO REMAIN OPERATIONAL FOR A PERIOD OF 12 MONTHS AFTER THE DATE OF FINAL ACCEPTANCE. DURING THIS PERIOD, THE CONTRACTOR SHALL ALSO REPAIR ANY SETTLEMENT OF THE IRRIGATION TRENCHES. BY THE END OF THE WARRANTY PERIOD, ANY IRRIGATION PART THAT IS EITHER

NON-OPERATIONAL OR THAT IS OPERATING BELOW STANDARDS AS DETERMINED BY THE OWNER, SHALL BE REMOVED FROM THE SITE AND SHALL BE REPLACED. REPLACEMENTS SHALL BE OF THE SAME KIND AS SPECIFIED IN THE IRRIGATION LEGEND, AND SHALL BE INSTALLED AS ORIGINALLY SPECIFIED. IRRIGATION PARTS DAMAGED OR IMPAIRED DUE TO ACTS OF GOD, VANDALISM, AND/OR THE

OWNER'S IMPROPER MAINTENANCE SHALL NOT BE COVERED BY THIS WARRANTY. SHOULD THE PERMITTING JURISDICTION REQUIRE AN IRRIGATION AUDIT. THE IRRIGATION CONTRACTOR SHALL RETAIN THE SERVICES OF A THIRD-PARTY CERTIFIED LANDSCAPE IRRIGATION AUDITOR, AT NO ADDITIONAL COST TO THE OWNER.

1) 30-INCH LINEAR LENGTH OF WIRE, COILED (2) WATERPROOF CONNECTION (ANY APPROVED)

BY CARSON (OR EQUAL

(5) TOP OF MULCH

7) PVC UNION (2)

(9) PVC LATERAL PIPE

(12) PVC MAINLINE PIPE

13) PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)

(15) SCH. 40 PVC TEE OR ELL

(16) SCH. 40 PVC THREADED ELL

(14) SCH. 40 PVC ELL

(1) 30-INCH LINEAR LENGTH OF WIRE, COILED

(3) REMOTE CONTROL VALVE

(7) PVC SCH 80 NIPPLE (CLOSE)

(5) TOP OF MULCH

(8) PVC SCH 40 ELL

(10) BRICK (1 OF 4)

(11) PVC MAINLINE PIPE

(12) SCH. 40 PVC ELL

(13) PVC SCH 40 TEE OR ELL

(15) PVC LATERAL PIPE

(14) PVC SCH 40 MALE ADAPTER

(2) WATERPROOF CONNECTION (ANY APPROVED)

(4) JUMBO PLASTIC VALVE BOX BY CARSON (OR

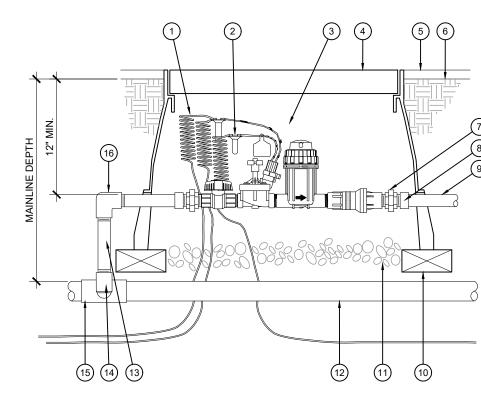
(6) FINISHED GRADE-1" BELOW TOP OF BOX IN

(9) PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)

TURF AREAS, 2" IN SHRUB AREAS

(10) BRICK (1 OF 4)

2" IN SHRUB AREAS



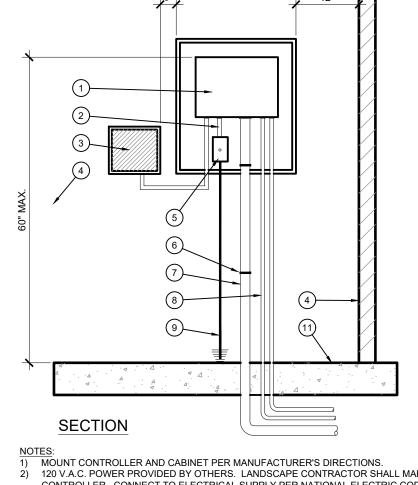
DRIP CONTROL ZONE KIT

(3) REMOTE CONTROL VALVE (4) JUMBO PLASTIC VALVE BOX (6) FINISHED GRADE-1" BELOW TOP OF BOX IN TURF AREAS, 8 PVC SCH 40 MALE ADAPTER (2) (11) 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

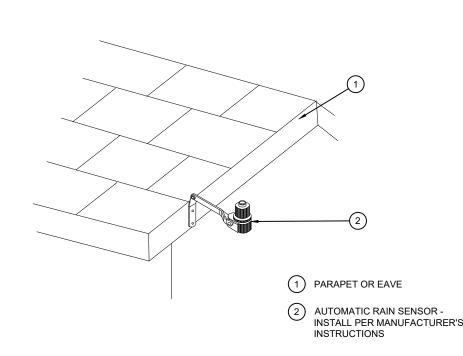
> MOUNT CONTROLLER AND CABINET PER MANUFACTURER'S DIRECTIONS. 120 V.A.C. POWER PROVIDED BY OTHERS. LANDSCAPE CONTRACTOR SHALL MAKE FINAL CONNECTION AT CONTROLLER. CONNECT TO ELECTRICAL SUPPLY PER NATIONAL ELECTRIC CODE AND LOCAL CODE.

3) LOCATE GROUND ROD 8' MIN. FROM CONTROLLER, VERIFY LOCATION OF GROUND ROD, CONTROLLER AND SOURCE

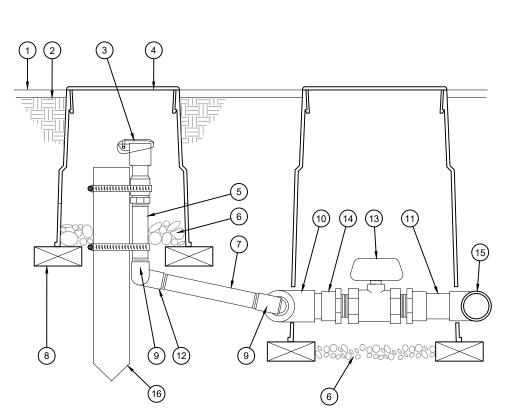
OF ELECTRICITY WITH MANUFACTURER'S REPRESENTATIVE AND OWNER AS PART OF PRE CONSTRUCTION



CONTROLLER - WALL MOUNT, INDOOR



REMOTE CONTROL VALVE



(1) TOP OF MULCH 2) FINISHED GRADE-1" BELOW TOP OF BOX IN TURF AREAS

2" IN SHRUB AREAS (3) QUICK-COUPLING VALVE 4) 10" ROUND PLASTIC VALVE BOX BY CARSON (OR EQUAL)

(5) 6" LONG BRASS NIPPLE (6) 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL 7) BRASS NIPPLE (LENGTH AS

REQUIRED) (8) BRICK (1 OF 2)

(9) PVC SCH 40 STREET ELL (10) PVC SCH 40 ADAPTER OR

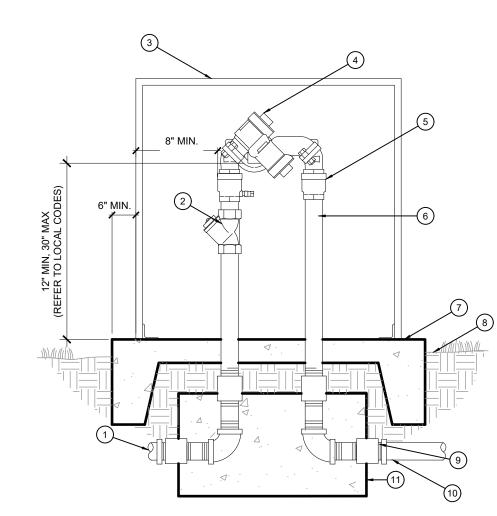
(11) PVC MAINLINE PIPE (12) PVC SCH 40 ELL

13) SCH. 40 PVC BALL VALVE, LINE SIZE (14) PVC MALE ADAPTER

15) PVC SCH 40 TEE OR ELL AT MAINLINE PIPE (AS NEEDED) (16) 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR **EQUIVALENT SUPPORT** SYSTEM

QUICK COUPLER WITH BALL VALVE





BACKFLOW PREVENTER

1) TO POINT OF CONNECTION -ADAPT AS NECESSARY. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES

(1) CONTROLLER PER LEGEND

(3) SENSOR MONITOR PANEL OR

(4) WALL (WHERE OCCURS)

(6) C-CLAMPS (TYP.)

RECEIVER (WHERE OCCURS)

(5) 120 VOLT SERVICE IN WATERPROOF

(7) CONDUIT(S) FOR 24 VOLT CONTROL

(8) SENSOR CABLES IN CONDUITS

9 GROUNDING PER MANUFACTURER

(WHERE OCCURS)

(10) FINISH FLOOR SURFACE

WIRES. CLÁMP TO WALL. USE 1

CONDUIT FOR 0-24 STATIONS. USE 2 CONDUITS FOR 25-48 STATIONS

JUNCTION BOX WITH DISCONNECT

SWITCH, INSTALL INSIDE STAINLESS

(2) 1/2" ELECTRICAL CONDUIT BETWEEN

CONTROLLER AND ELECT. BOX

2 BRASS WYE STRAINER W/60 MESH (3) ENCLOSURE PER IRRIGATION

LEGEND (4) BACKFLOW PREVENTER UNIT (5) BRASS UNION (TYPICAL)

(6) BRASS NIPPLES (TYPICAL) (7) 4" CONCRETE PAD, SLOPE TO DRAIN AWAY FROM BACKFLOW PREVENTER

(8) FINISH GRADE, 2" BELOW PAD (9) BRASS COUPLING

(10) PVC ADAPTER AND MAINLINE PIPE (11) 12"X12"X24" THRUST BLOCK

BEARINGS SHOWN HEREON ARE TIED TO THE TEXAS COORDINA SYSTEM OF 1983 (NAD83(2011) EPOCH2013) NORTH CEN (4202) USING TOWN OF PROSPER GEODETIC CONTROL MONUMENTS 3 AND 5: N: 7144654.054

ELEV: 619.13

2480701.977 E: 2492631.252 ELEV: 615.09 ELEV: 704.95 "X" CUT IN INLET ON THE EAST SIDE OF DALLAS NORTH TOLLWAY NORTHBOUND SERVICE ROAD, APPROXIMATELY 146 FEET SOUT OF FRONTIER PARKWAY CENTERLINE. : 7146308.56

EVERGREEN

(800) 680-6630

15455 Dallas Pkwy., Ste 600

Addison, TX 75001

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17628

CHECKED 06/04/202 SHEET

1) BUBBLER PER LEGEND - 2 PER TREE 2 MULCH (3) FINISH GRADE/TOP OF MULCH 4 UV RADIATION RESISTANT 1/2-INCH PVC SCH 80 NIPPLE (LENGTH AS REQUIRED) 5 1/2-INCH FEMALE NPT x 0.490-INCH BARB ELBOW 6) SWING PIPE, 12-INCH LENGTH 7) PVC LATERAL PIPE 8 1/2-INCH MALE NPT x .490-INCH BARB ELBOW 9 SCH 40 TEE OR ELL (10) EDGE OF ROOTBALL 11) PVC LATERAL LINE - 3/4" PVC LATERAL LINE **BUBBLER LAYOUT PLAN VIEW** M BUBBLER
SCALE: NTS

4 5 6

BUG CAP AT END OF TUBING 1/4-INCH DISTRIBUTION TUBING

OUTSIDE OF ROOTBALL

(6) TOP OF MULCH

FINISH GRADE

9) PVC LATERAL PIPE 10) PVC SCH-40 TEE OR ELL

3-INCH MIN. DEPTH WASHED GRAVEL

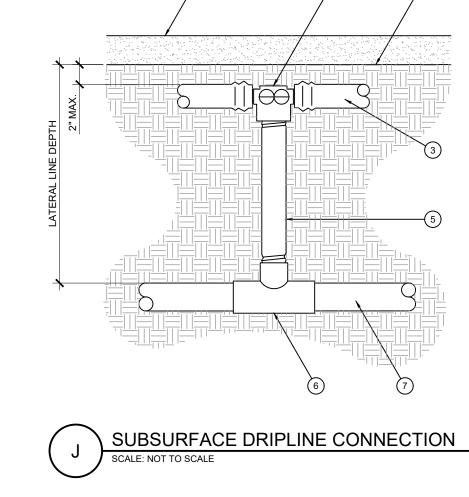
8 1/2" PVC SCH-80 NIPPLE - LENGTH AS REQUIRED

3-INCH MIN. DEPTH OF 3/4-INCH

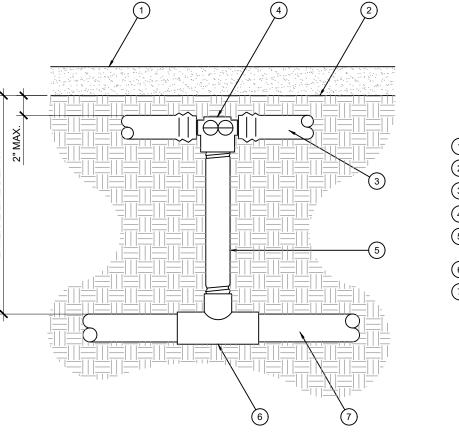
1/4-INCH TUBING STAKE - PLACE JUST

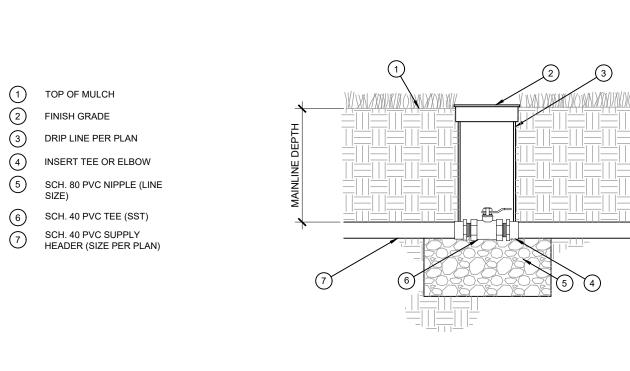
MULTI-OUTLET EMISSION DEVICE WITH EMITTERS PER IRRIGATION LEGEND

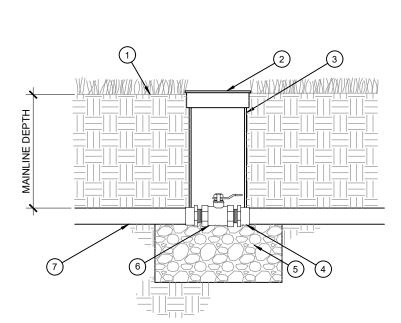
10" ROUND VALVE BOX, AS MADE BY CARSON (OR EQUAL). TOP OF BOX TO BE 2" ABOVE FINISH GRADE IN PLANTER



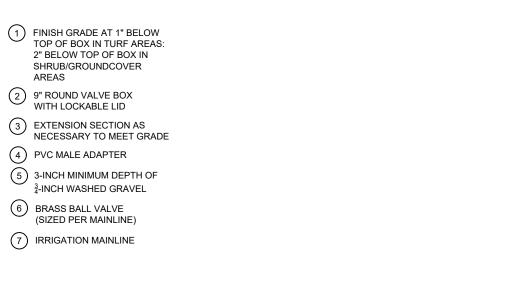
FLUSH VALVE







BRASS BALL VALVE



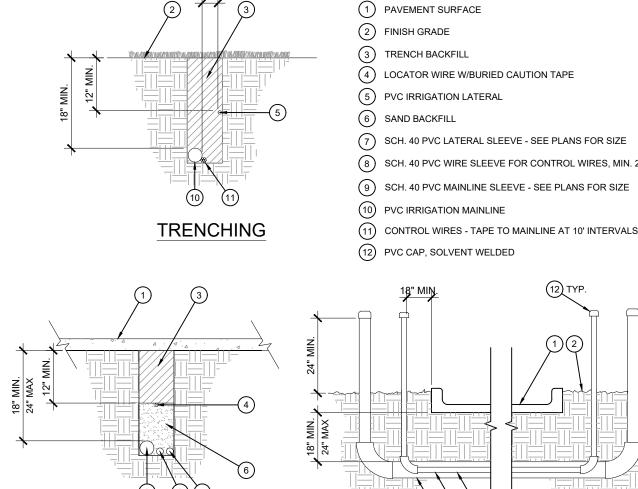
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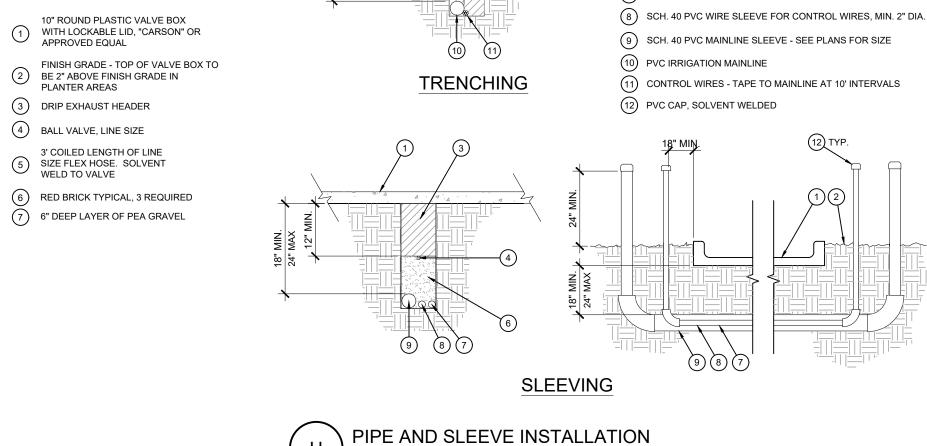
(800) 680-6630

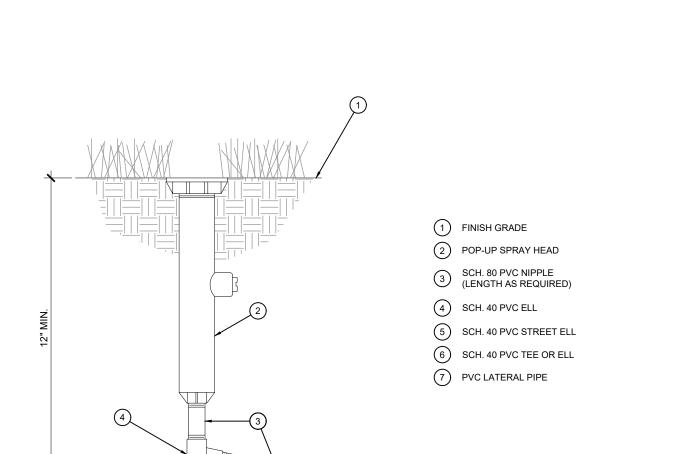
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10" ROUND PLASTIC VALVE BOX
WITH LOCKABLE LID, "CARSON" OR
APPROVED EQUAL

3 DRIP EXHAUST HEADER

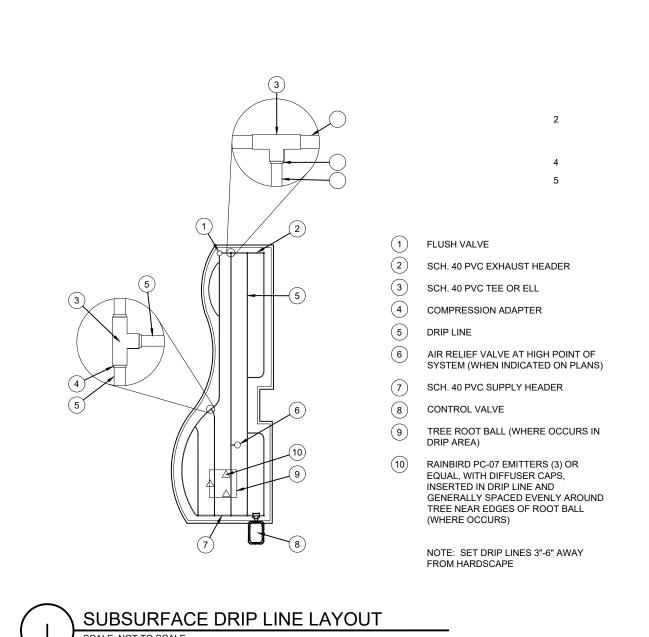
4 BALL VALVE, LINE SIZE

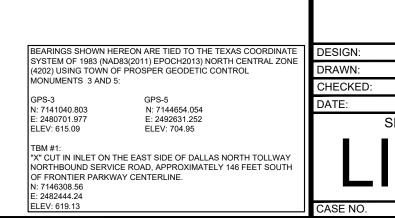
3' COILED LENGTH OF LINE SIZE FLEX HOSE. SOLVENT WELD TO VALVE

(6) RED BRICK TYPICAL, 3 REQUIRED

(7) 6" DEEP LAYER OF PEA GRAVEL







SHEET