NOTES:
1. PLANTING INCLUDES REMOVAL OF STAKES ONE YEAR AFTER INSTALLATION.
2. SHAPE SOIL SURFACE TO PROVIDE 4' DIA WATERING RING.
3. TREE CLEARANCE SHALL BE PER STD PLAN NO 030.
4. SEE STD PLAN NO 424 FOR TREE PIT DETAIL
5. ADJUST TREE TIES DURING ESTABLISHMENT TO ALLOW ROOM FOR GROWTH (1/2" SLACK).
6. ROOT BARRIER REQUIRED ALONG EDGE OF ROADWAY, CURB, DRIVEWAY, TRAIL, SIDEWALK, OR OTHER STRUCTURES WHERE ROOTBALL IS WITHIN TWO FEET. PLACE VERTICAL ROOT BARRIERS AS SHOWN IN STANDARD PLANS NO 424a OR 424b. INSTALL ROOT BARRIERS FOR NEWLY PLANTED TREES ONLY.

STAKE TREE WITH (2) TREATED 2" LODEPOLE PINE DOWELED TREE STAKES (8'-0" LENGTH) LOOP EACH TIE AROUND HALF TREE LOOSELY TO PROVIDE 1" SLACK FOR TRUNK GROWTH.

"CHAINLOCK" OR EQUAL TREE TIE MATERIAL (1" SIZE) NAIL OR STAPLE TREE TIE MATERIAL TO STAKE TO HOLD VERTICALLY LOOP EACH TIE AROUND HALF TREE LOOSELY TO PROVIDE 1" SLACK FOR TRUNK GROWTH.

2'-0" MIN X 3'-6" MIN

MULCH TREE PIT MIN 5'-0" LENGTH X FULL PLANTING STRIP WIDTH BETWEEN CURB AND SIDEWALK (FOR PLANTING STRIPS LESS THAN 6'-0" WIDE) OR PROVIDE 5'-0" DIA MULCH RING FOR PLANTING STRIPS WIDER THAN 6'-0".

SIDEWALK

18" ROOTBARRIER AT SIDEWALK.

ROUGHEN SIDES OF PLANTING HOLE MAXIMIZE EXCAVATED AREA WITHOUT UNDERMINING ADJACENT PAVING/CURB.

ROOTBARRIER, PLACE AT EDGE OF PAVEMENT/SIDEWALK/ETC.; PLACE PRIOR TO PLACEMENT OF NEW SIDEWALK OR CURB TO PREVENT UNDERMINING.

SEE STD SPEC SECTION 6-02.3(6)(B), OR AS APPROVED BY ENGINEER.

REMOVE ALL WIRE, STRINGS, AND OTHER NON-BURLAP MATERIAL, AND REMOVE BURLAP FROM TOP 3/4 OF ROOTBALL MINIMUM. REMOVE ENTIRELY WHEN DIRECTED BY THE ENGINEER.

MIN WIDTH OF TREE PIT = 2 TIMES ROOTBALL DIAMETER OR 5'-0", WHICHEVER IS GREATER

MULCH AREA TO BE CLEAR OF GRASS, WEEDS, ETC. TO REDUCE COMPETITION WITH TREE ROOTS.

SET TOP OF ROOT GROWN 2" ABOVE ADJACENT CURB & SIDEWALK GRADE.

3" TO 4" HIGH WATERING RING (SEE NOTE 2).

24" ROOTBARRIER AT CURB WHEN SHOWN ON THE DRAWINGS.

TREE PIT DEPTH = ROOTBALL DEPTH (MEASURE BEFORE DIGGING TO AVOID OVEREXCAVATION).

DRIVE STAKES 6" TO 1'-0" INTO UNDISTURBED SOIL BELOW ROOTBALL.

UNDISTURBED SUBGRADE (PROVIDES FIRM BASE SO THAT ROOTBALL WILL NOT SINK).

NOTES:
1. STAKE TREES PER STD PLAN NO. 100a.
2. ONE STAKE PER TREE ON WINDWARD SIDE, SECOND STAKE ON LEEWARD SIDE.
3. SLOPES STEEPER THAN 2:1 MAY REQUIRE AN APPROVED EMBANKMENT STABILIZATION SYSTEM TO CREATE A LEVEL TREE PIT SUCH AS:
   - ROCK FACING
   - PRECAST CONCRETE WALL UNITS
   - TIMBER WALL
   - MANUFACTURED SLOPE RETENTION UNITS
4. CHAINLOCK TREE TIE. LOOP EACH TIE AROUND TREE LOOSELY TO PROVIDE 1" SLACK FOR DIAMETER GROWTH.
5. SHAPE SOIL TO PROVIDE 3" DIAMETER OR FOOTBALL DIAMETER, WHICHERVER IS GREATER. WATERING RING.
6. REMOVE ALL WIRE, STRINGS AND OTHER NON-BURLAP MATERIAL, AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL.

REF STD SPEC SEC 8-02

PLASTIC LOCK-TIE OR RUBBER HOSE TREE TIE, SET LOOSE TO ALLOW FOR DIAMETER GROWTH

2" X 6'-0" LENGTH LODGEPOLE PINE TREE STAKE

MIN 2"-3" OF MULCH

3"-4" HIGH WATERING RING

FINISH GRADE

REMOVE ALL WIRE, STRINGS, AND OTHER NON-BURLAP MATERIAL AND REMOVE BURLAP FROM TOP 3/8 OF ROOTBALL.

SEE STD SPEC SECTION 8-02.3(4)(b).

UNDISTURBED SUBGRADE (PROVIDES FIRM BASE SO THAT ROOTBALL WILL NOT SINK)

6'-0" MIN OR 2 TIMES ROOTBALL

6'-0" OA. MULCH AREA CLEAR OF GRASS, WEEDS, ETC. TO REDUCE COMPETITION DURING ESTABLISHMENT

SET ROOT CROWN AT OR 1" ABOVE FINISH GRADE

MIN 1/3 HEIGHT OF TREE (TIP)

SEE STD PLAN NO. 100B FOR PLANTING ON SLOPES
CONTINUOUS OUTER ROW AT X FEET ON CENTER, 2/3X FEET SETBACK FROM EDGE OF PLANTING BED WITH TRIANGULAR SPACING INSIDE BED (TYP)

2/3X (TYP)

X - RECOMMENDED SPACING (SEE LANDSCAPE DETAIL ON DRAWING)

+ - ACTUAL PLANT LOCATIONS
100 LANDSCAPE PLANTING

DETAIL AT TREE

PLAN

QUANT PER
10'-0" LF MEDIAN

⊙ GROUNDCOVER 30
⊙ PERENNIAL TYPE 1 4
⊙ PERENNIAL TYPE 2 6
⊙ PERENNIAL TYPE 3 5
⊙ EVERGREEN GROUNDCOVER TYPE 1 13
⊙ EVERGREEN GROUNDCOVER TYPE 2 12

QUANT PER END CAP

END CAP DETAIL

Typical Street Tree
2"-2 1/2" Caliper
Ø30'-0" OC

Chainlock Tree Tie
Loop Each Tie Around Tree Loosely To Provide 1" Slack For Diameter Growth

(2) 2" Lodgepole Pine Dowel Tree Stakes (8'-0" Length)

See Std Plan No. 100 For Supplemental Tree Planting Information

Place 3" of Planting Soil & Mix With Subsoil Before Adding

Subsequent Quantities of Planting Soil (In 6" Lifts) Compacted To 85%

Native Subgrade To Be Scarified To A Depth Of 6" Prior To Placement Of Fill. Call For Inspection Before Filling.

3" Arborist Wood Chip Mulch

See Std Plans No. 110 & 111 For Supplemental Shrub and Groundcover Planting Information

ELEVATION

SOIL PREPARATION DETAIL

MEDIAN PLANTING

City of Seattle


REF STD SPEC SEC 8-02

NOT TO SCALE
NOTE:
"U" SHAPED CUT-OUT IN VALVE BOX THAT ALLOWS 2" CLEARANCE FROM TOP OF PIPE TO TOP OF "U"

AUTOMATIC CONTROL VALVE

MANUAL DRAIN VALVE
GATE VALVE – 2 1/2" & LARGER

NOTES:
USE TEFLOM TAPE ON ALL THREADED FITTINGS

REF STD SPEC SEC 8-03
NOZZLE VARIES (PER IRRIGATION DRAWINGS)

FINISH GRADE

POP UP ROTOR HEAD

CLASS 315 PVC PREFABRICATED TRIPLE SWING JOINT ASSEMBLY

DETECT-A-TAPE IN TRENCH

LATERAL LINE (SCH 40 PVC)

POP UP ROTOR HEAD

TURF AREAS

ASPHALT, CONCRETE, MASONRY, CRUSHED ROCK SURFACE OR CURB

6" MAX

1/2'-3/4'

1'-6" MIN

6" ABOVE PIPE

LATERAL LINE (SCH 40 PVC)

POP UP ROTOR HEAD

(SHRUB BED AREAS)

AT EDGE OF PAVEMENT

NOZZLE WITH SCREEN

BRASS OR PLASTIC SHRUB SPRAY HEAD

SCH 80 PVC NIPPLE

STAINLESS STEEL CLAMPS

BARK MULCH

FINISH GRADE

PVC FEMALE ADAPTER

SCH 80 PVC NIPPLE

CLASS 315 PVC PREFABRICATED TRIPLE SWING JOINT ASSEMBLY

DETECT-A-TAPE IN TRENCH

LATERAL LINE (SCH 40 PVC)

#5 REBAR 3'-0" LONG W/ 2'-0" MIN BELOW GRADE

FIXED SHRUB RISER

SHRUB BED AREAS

NOTE:
USE TEFLOM TAPE ON ALL THREADED FITTINGS

REF STD SPEC SEC 8-03

City of Seattle
NOT TO SCALE

POP UP & FIXED IRRIGATION HEADS

LEGEND
1. CONTROLLER
2. #10 AWG SOLID BARE COPPER WIRE FROM GROUNDING ROD TO CONTROLLER. MAKE WIRE AS SHORT AS POSSIBLE.
3. COVER GROUNDING ROD WITH 10" ROUND VALVE BOX.
4. 3/8"X10'-0" COPPER CLAD GROUNDING ROD. INSTALL 3 RODS IN SOIL IN A TRIANGULAR PATTERN, SPACES 8'-0" MIN APART. GROUNDING GRID TO HAVE A RESISTANCE OF 10 OHMS OR LESS.
5. #10 AWG BARE COPPER WIRE BETWEEN GROUNDING RODS.
6. BRASS WIRE CLAMP. USE SEPARATE CLAMP FOR EACH WIRE.
7. FINISH GRADE.

GROUND ROD LAYOUT

GROUND ROD ASSEMBLY

IRRIGATION CONTROLLER PEDESTAL AND ENCLOSURE GROUNDING
MAIN LINE

CLEAN, COMPACTED, SUITABLE NATIVE BACKFILL

DETECT-A-TAPE (PURPLE) NON-POTABLE 6" ABOVE PIPE

PVC MAIN LINE
BUNDLE CONTROLLER WIRES UNDER MAIN LINE & OPPOSITE SIDE FROM SWING JOINTS (WHEN LATERAL & MAIN SHARE TRENCH)

DO NOT TAPE BUNDLED WIRES TO MAIN LINE

SLEEVE TRENCHING

ALL BACKFILL SHALL BE MINERAL AGGREGATE TYPE 2

DETECT-A-TAPE (PURPLE) N.P. 4" ABOVE SLEEVE

PVC SLEEVE WITH MAIN OR LATERAL LINES OR CONTROLLER WIRES

NOTES:
1. SLEEVE SIZE AS SHOWN ON DRAWINGS OR OD OF SLEEVE TO BE 1" GREATER THAN OD OF PIPE
2. SLEEVES REQUIRED UNDER ALL PAVED AREAS

LATERAL LINE

FINISH GRADE

PVC TRIPLE SWING JOINT & HEAD

DETECT-A-TAPE (PURPLE) 6" ABOVE PIPE

CLEAN COMPACTED, SUITABLE NATIVE BACKFILL EXCEPT AT SWING HEAD/JOINT LOCATIONS WHERE ALL BACKFILL SHALL BE MINERAL AGGREGATE TYPE 6 OR 7 TO MIN. 6" ALL DIRECTIONS INCLUDING 6" BELOW.

PVC LATERAL LINE

POWER SUPPLY TRENCH

FINISH GRADE

PVC ELECT CONDUIT (GREY) (SIZE AS SPECIFIED ON DRAWINGS)

6" WIDE TRENCH (OR AS REQUIRED TO ALLOW ADEQUATE COMPaction OF BACKFILL)
NOTES:
1. NEMA 3R RAINPROOF CABINET
2. NO. 12 GA PREGALVANIZED STEEL WELDED SEAM CONSTRUCTION
3. TWO SCREENED, GASKETED LOUVERED VENTS
4. REMOVABLE EQUIPMENT MOUNTING PAN
5. VANDALPROOF LOCKABLE SLIDE BAR ACROSS FRONT DOOR
6. PADMOUNT DESIGN WITH 2" INSIDE FLANGE ON BOTTOM
7. DOOR:
   3-POINT LATCH
   CONCEALED HINGE
   LIFT-OFF TYPE (UPON OPENING)
   CLOSED CELL NEOPRENE GASKET
8. PAINT:
   OVEN BAKED ENAMEL
   DARK GREEN OUTSIDE
   WHITE INSIDE
   PREGALVANIZED METAL TREATED WITH COPPER SULFATE PRIOR TO PAINTING
9. ACTUAL CABINET DIMENSIONS ARE PROJECT SPECIFIC AND WILL BE SPECIFIED ON THE DRAWINGS.

SECTION A-A

IRRIGATION CONTROLLER CABINET

NOTE:
CONSIDER TRAFFIC TURNING VISIBILITY AND
PEDESTRIAN VISIBILITY WHEN SELECTING FENCE
HEIGHT. TYPICALLY SHORTER FENCING AROUND TREE
PITS BETWEEN SIDEWALK AND ROADWAY IS DESIRED.

4'-6" TO 6'-0" HIGH CHAIN LINK
FENCE TO ENCLOSE ENTIRE OPEN
TREE PIT (TYP EACH TREE PIT)

EXISTING TREE PIT

FACE OF CURB

TREE IN TREE PIT

4'-6" TO 6'-0" HIGH CHAIN LINK
FENCE TO ENCLOSE ENTIRE OPEN
TREE PIT (TYP EACH TREE PIT)

FACE OF CURB

TREE IN PLANTING STRIP—OPTION 1

SIDEWALK EDGE

PLANTING STRIP

4'-6" TO 6'-0" HIGH CHAIN LINK
FENCE PROTECTS ENTIRE
PLANTING STRIP

FACE OF CURB

TREE IN PLANTING STRIP—OPTION 2

SIDEWALK EDGE

PLANTING STRIP

REF STD SPEC SEC 1-07.16(2), 8-01

City of Seattle
NOT TO SCALE
TREE PROTECTION DURING CONSTRUCTION

TRENCHING/EXCAVATION

ZONE A (CRITICAL ROOT ZONE)
1. NO DISTURBANCE ALLOWED WITHOUT SITE-SPECIFIC INSPECTION AND APPROVAL OF METHODS TO MINIMIZE ROOT DAMAGE
2. SEVERANCE OF ROOTS LARGER THAN 2" DIA REQUIRES ENGINEER’S APPROVAL
3. TUNNELING REQUIRED TO INSTALL LINES 3"-0" BELOW GRADE OR DEEPER

ZONE B (DRIPLINE)
1. ZONE B FOR ASYMMETRICAL COLUMNAR AND NARROW CONICAL TREE FORMS. ZONE B = 1' RADIUS FOR EVERY 1" OF TRUNK DIAMETER.
2. TUNNELING MAY BE REQUIRED FOR TRENCHES DEEPER THAN 3'-0".

NOTE:
A TREE, VEGETATION, AND SOIL PROTECTION PLAN (TVSPP) IS REQUIRED FOR ALL PROJECTS. APPROVAL OF PLAN REQUIRED PRIOR TO MOBILIZATION. SEE SECTION 8-01.
SECTION

ELEVATION

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\[ \theta = 14^\circ \pm 1^\circ \]
NOTES:
1. ALL SOIL AREAS DISTURBED OR COMPACTED DURING CONSTRUCTION, AND NOT COVERED BY BUILDINGS OR PAVEMENT, SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.

2. SUBSOIL SHOULD BE SCARIFIED (LOOSENED), 4 INCHES BELOW AMENDED LAYER, TO PRODUCE 12-INCH DEPTH OF UN-COMPACTED SOIL EXCEPT WHERE SCARIFICATION WOULD DAMAGE TREE ROOTS OR AS DETERMINED BY THE ENGINEER.

3. COMPOST SHALL BE TILLED IN TO 8 INCH DEPTH INTO EXISTING SOIL, OR PLACE 6 INCHES OF COMPOST-AMENDED SOIL PER SOIL SPECIFICATION.

4. TURF AREAS SHALL RECEIVE 1.75 INCHES OF COMPOST TILLED IN TO 8-INCH DEPTH, OR MAY SUBSTITUTE 8" OF IMPORTED SOIL CONTAINING 20-25% COMPOST BY VOLUME. THEN PLANT GRASS SEED OR SOD PER SPECIFICATION.

5. PLANTING BEDS SHALL RECEIVE 3 INCHES OF COMPOST TILLED IN TO 8-INCH DEPTH, OR MAY SUBSTITUTE 8" OF IMPORTED SOIL CONTAINING 35-40% COMPOST BY VOLUME. MULCH AFTER PLANTING, WITH 2-4 INCHES OF ARBORIST WOOD CHIP MULCH OR APPROVED EQUAL.

6. SETBACKS: TO PREVENT UNEVEN SETTLING, DO NOT COMPOST-AMEND SOILS WITHIN 3 FEET OF UTILITY INFRASTRUCTURES (POLES, VAULTS, METERS ETC.), WITHIN 1 FOOT OF PAVEMENT EDGE, CURBS AND SIDEWALKS. SOIL SHOULD BE COMPACTED TO APPROXIMATELY 90% PROCTOR TO ENSURE A FIRM SURFACE.