# **BRANCHES PRUNED AT TRUNK**

TOO CORRECT TOO TOO PRUNING CLOSE LONG SLANTED CUT LIVE BUD

## BRANCHES PRUNED TO LIVE BUD

**PRUNING** 

STEPS TO PRUNING WITH PRUNING SAW:

- **CUT PART WAY THROUGH THE** BRANCH AT POINT A.
- 2. CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.
- 3. AT BRANCH COLLAR CUT FROM POINT C TO D.

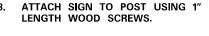
INCORRECT CUT FROM POINT C TO X (TOO CLOSE) WILL RESULT IN **DISCONTINUOUS CALLUS FORMATION** AFTER ONE SEASON OF GROWTH.

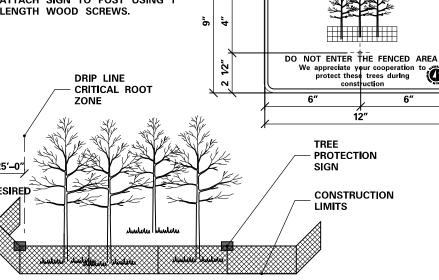
CORRECT CUT FROM POINT C TO D (LEAVING BRANCH COLLAR BUT NOT THE STUB FROM POINT B TO A) WILL RESULT IN CONTINUOUS DOUGHNUT SHAPED CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

### PRUNING NOTES:

- 1. PRUNE USING CLEAN AND SHARP SCISSOR-TYPE PRUNER OR PRUNING SAW.
- 2. THE BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.
- 3. AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.
- 4. IF PRUNING IS NECESSARY OR IF WOUNDS OCCUR TO OAK TREES IN APRIL, MAY, JUNE OR JULY, IMMEDIATELY PAINT CUT SURFACE OR WOUND WITH LATEX PAINT OR SHELLAC.

1. FABRICATE 12" X 9" X 3/8" SIGN WITH 0.75" RADIUS CORNERS. SIGN SHALL BE WHITE WITH BLACK





- 1. FURNISH AND INSTALL TEMPORARY FENCE AT THE TREE'S DRIPLINE OR CONSTRUCTION LIMITS AS SPECIFIED, PRIOR TO ANY CONSTRUCTION.
- WHEN POSSIBLE PLACE FENCE 25 FEET BEYOND THE DRIP LINE.
- 3. PLACE TREE PROTECTION SIGNS ALONG FENCE AT 50' INTERVALS.

# **MEASURE TREE** DIAMETER AT 4.5 ft ABOVE **GROUND** CRITICAL ROOT TREE ZONE MINIMUM DISTANCE FROM TREE TRUNK DIRECTIONAL DRILLING MACHINE **BORE TUNNEL DEPTH OF** TUNNEL NOTE:

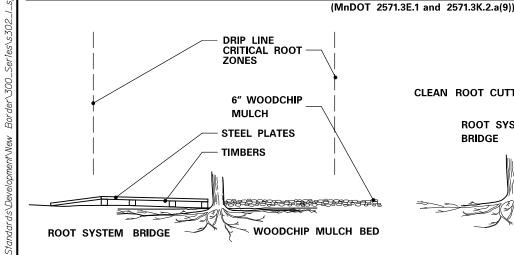
- 1. (A) IS THE DIAMETER OF TREES MEASURED 4'-6" FEET ABOVE THE GROUND AND IS TERMED THE "DIAMETER AT BREAST HEIGHT," (DBH).
- 2. USING A TREE DIAMETER TAPE, WRAP THE TAPE AROUND THE GIRTH OF THE TREE, AT THE DBH, BEING CAREFUL NOT TO TWIST THE TAPE.

**UTILITY CONSTRUCTION** 

TREE PROTECTION ZONE С < 2" 2′ 2′ 2-4" 4′ 2.5' > 4-9" 6′ 2.5' > 9-14" 10' 3′ 12' 3.25' >14-19" 15' 4′

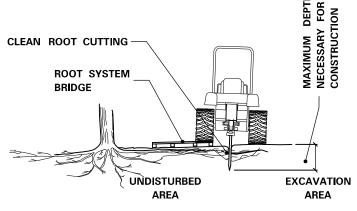
(MnDOT 2572.3A.5)

## **TEMPORARY FENCE**

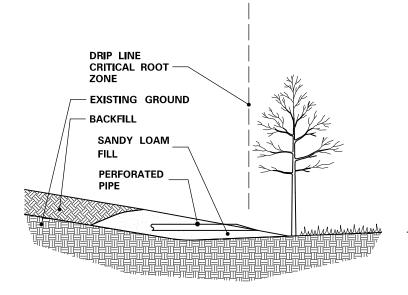


IF CONSTRUCTION VEHICLES MUST PASS OVER ROOT ZONES, THE CONTRACTOR MUST EITHER:

- PLACE A 6 INCH LAYER OF WOODCHIP MULCH OVER A TYPE III GEOTEXTILE (MnDOT 3733).



- WHEN DESIGNATED IN THE PLAN OR DIRECTED BY THE ENGINEER, PRIOR TO EXCAVATION, ALL TREE ROOTS WILL BE CLEANLY CUT BY A VIBRATORY PLOW OR OTHER APPROVED ROOT CUTTER.
- THE TREE ROOTS WILL BE CUT CLEANLY TO THE MINIMUM DEPTH NECESSARY FOR CONSTRUCTION.
- IMMEDIATELY, AND CLEANLY CUT DAMAGED AND EXPOSED ROOTS.
- ROOT ENDS EXPOSED BY EXCAVATION ACTIVITIES SHALL BE IMMEDIATELY COVERED WITH A 6" LAYER OF ADJACENT SOIL.
- EXPOSED CUT OAK ROOTS SHALL BE IMMEDIATELY (WITHIN 5 MINUTES) TREATED WITH A WOUND DRESSING MATERIAL CONSISTING OF LATEX PAINT OR SHELLAC.



(MnDOT 2572.3A.1)

1. ANY FILL REQUIRED WITHIN THE DRIP LINE OF TREES, IS UNCOMPACTED ROOTING TOPSOIL

**Tree Protection Area** 

- EXCESSIVE FILL MAY REQUIRE PLACING PERFORATED PIPE WITH AT LEAST ONE DAYLIGHTED END
- OPENING AS AN AERATION SYSTEM.

# **DRIP LINE CRITICAL ROOT** ZONE **TEMPORARY FENCE** REDUCED ROUNDING **NORMAL ROUNDING**

SIGNIFICANT TREES NEAR THE PROPOSED CONSTRUCTION LIMITS WILL BE IDENTIFIED IN THE PLAN OR BY THE ENGINEER AND WILL BE PRESERVED BY THE CONTRACTOR.

- PLACE THE TEMPORARY FENCE.
- REDUCE SLOPE ROUNDING WHERE ROOT ZONES ARE DISTURBED BY NORMAL SLOPE ROUNDING.
- VARY BACKSLOPE STEEPNESS TO AVOID TREE LOSS OR UNNECESSARY ROOT DAMAGE.

# OTHER VEGETATION PROTECTION MEASURES

## **CLEAN ROOT CUTTING**

## ROOTING TOPSOIL BORROW

(MnDOT 2572.3A.4)

1 OF 1

# PROTECTION AND RESTORATION OF VEGETATION

REVISION: APPROVED: DECEMBER 11, 2015

STANDARD PLAN 5-297.302 APPROVED: 12-11-2015 REVISED:

OF (T.H. SHEET NO.

(MnDOT 2572.3A.2)

DEPARTMENT

STATE DESIGN ENGINEER

STATE PROJ. NO.

**SLOPE ROUNDING** 

**SHEETS**