

December 8th, 2017

Nick Johnson
City of Bloomington Planner
1800 West Old Shakopee Road
Bloomington, MN 55431

SUBJECT: Friendship Village
 MnDOT Review P17-031A
 SE quad US169 and I-494
 Bloomington, Hennepin County
 Control Section 2776

Dear Mr. Johnson,

The Minnesota Department of Transportation (MnDOT) has reviewed the above referenced plat in compliance with Minnesota Statute 505.03, subdivision 2, Plats. Before any further development, please address the following issues:

Right of way (R/W)

Please be aware that trails on MnDOT right-of-way will need a limited use permit (LUP), without this no permanent trails can be allowed on MnDOT right-of-way. No walls and support will be allowed on MnDOT right-of-way.

Please label the drainage easement on the plans, refer to the attached sheets marking the easements.

For questions regarding these comments please contact Doug Nelson at 651-234-7583 or douglas.nelson@state.mn.us.

Design:

It appears from this revised set of plans that the grading limits on MnDOT right of way are much less than the previous version. However, there will be impacts to trees on MnDOT right of way. These plants need to be protected and in some cases, they need to be moved. Please contact Todd Carroll (Todd.Carroll@state.mn.us or (651) 366-4617) to discuss the options of how and where they will be moved. Also incorporate the following detail sheets into the plan set in order to provide guidance for planting, protecting, and moving plants on MnDOT right of way. <http://dotapp7.dot.state.mn.us/edms/download?docId=1643381>

Geotechnical:

Please ensure that all wall elements remain on private property and off of MnDOT right-of-way.

For questions regarding these comments please contact Blake Nelson at 651-366-5599 or blake.nelson@state.mn.us.

Water Resources:

A drainage permit is required for any development that will impact drainage to MnDOT right of way. If impacted, MnDOT would like to review the computations and plans as a check that the proposed development maintains or reduces drainage rates to MnDOT right of way when comparing the existing to the proposed condition.

Please submit documents below with the drainage permit application for review and approval:

1. Grading and drainage plans and hydraulic calculations showing that the proposed flows to MnDOT right-of-way will remain the same or less than existing conditions.
2. Existing and Proposed drainage area maps with flow arrows and labeling that corresponds with the submitted calculations.
3. Hydro CAD model and pdf of output for the 2, 10, and 100 year Atlas 14 storm events.

A Drainage permit application can be found at: <http://www.dot.state.mn.us/utility/forms.html>-
Application for Drainage Permit

The proposed development is adding an underground infiltration basin, adjacent to MnDOT ROW. We would like assurances from the developer that this system will not increase the groundwater flows to MnDOT's ROW and negatively impact the noise wall and slopes of the ramp to US 169.

For questions on these comments, please contact Hailu Shekur (Hailu.Shekur@state.mn.us or 651-234-7521) in MnDOT's Water Resources section.

Permits:

Any use of or work within or affecting MnDOT right of way requires a permit. Permit forms are available from MnDOT's utility website at <http://www.dot.state.mn.us/utility/>.

Please include one plan set formatted to 11 x 17 size with each permit application. Please direct any questions regarding permit requirements to Buck Craig (651-234-7911 or buck.craig@state.mn.us) of MnDOT's Metro Permits Section.

Review Submittal Options:

MnDOT's goal is to complete the review of plans within 30 days. Submittals sent in electronically can usually be turned around faster. There are four submittal options. Please submit either:

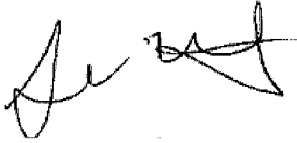
1. One (1) electronic pdf. version of the plans. MnDOT can accept the plans via e-mail at metrodevreviews.dot@state.mn.us provided that each separate e-mail is under 20 megabytes.
2. Three (3) sets of full size plans. Although submitting seven sets of full size plans will expedite the review process. Plans can be sent to:

MnDOT – Metro District Planning Section
Development Reviews Coordinator
1500 West County Road B-2
Roseville, MN 55113

3. One (1) compact disc.
4. Plans can also be submitted to MnDOT's External FTP Site. Please send files to:
<ftp://ftp2.dot.state.mn.us/pub/incoming/MetroWatersEdge/Planning>
Internet Explorer doesn't work using ftp so please use an FTP Client or your Windows Explorer (My Computer). Also, please send a note to metrodevreviews.dot@state.mn.us indicating that the plans have been submitted on the FTP site.

If you have any questions concerning this review please contact me at (651) 234-7788.

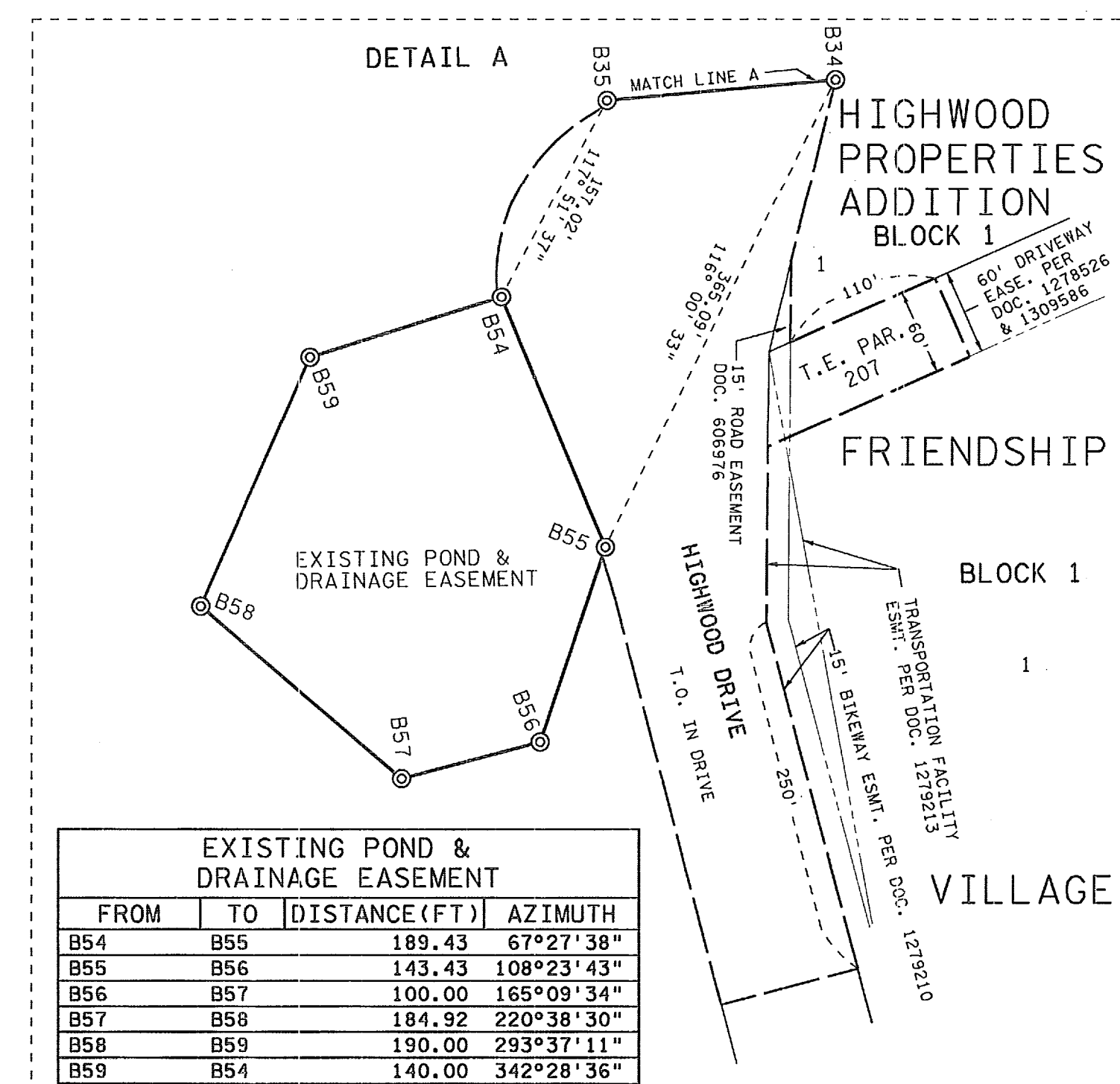
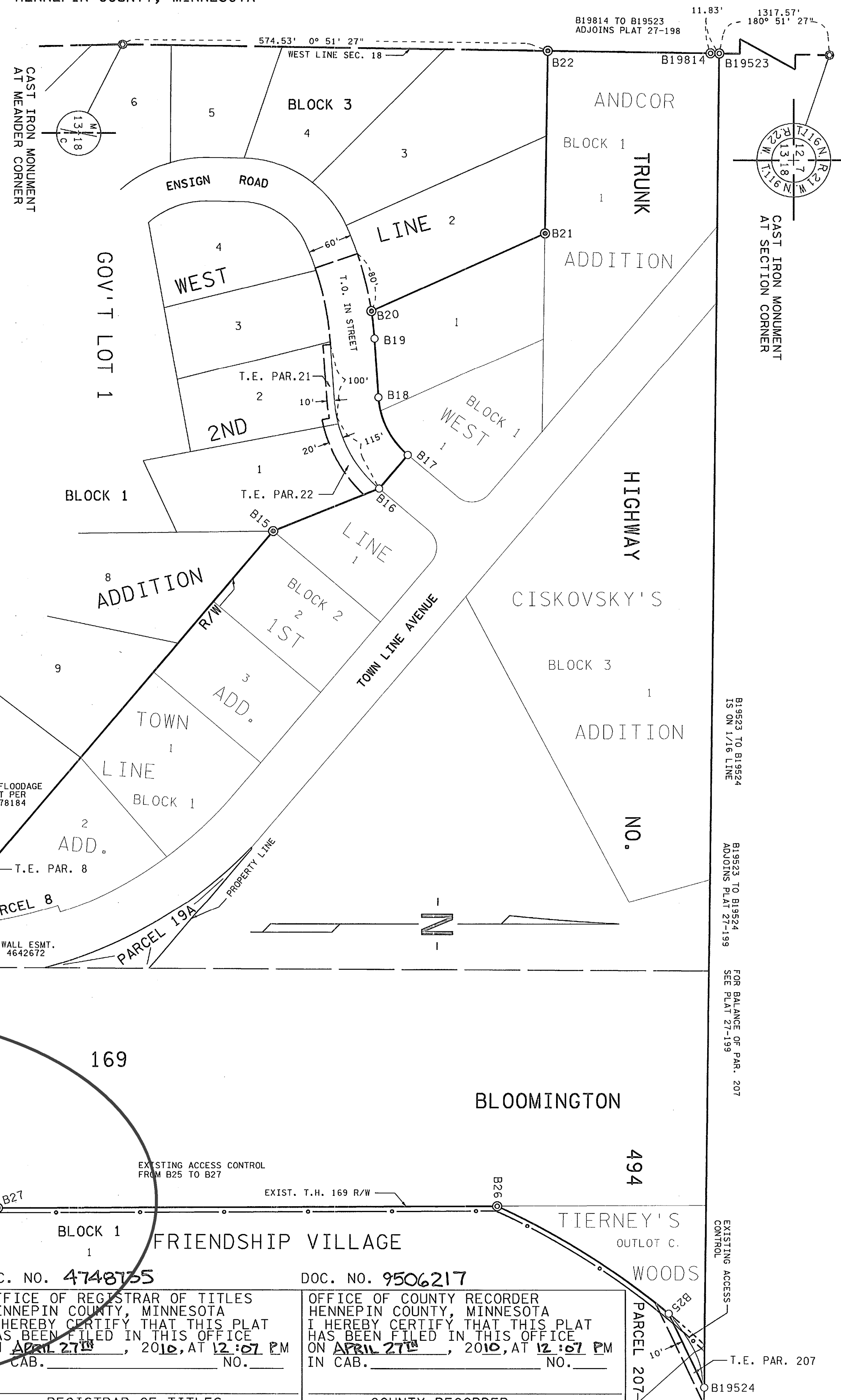
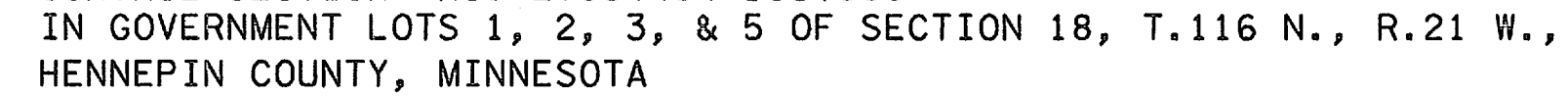
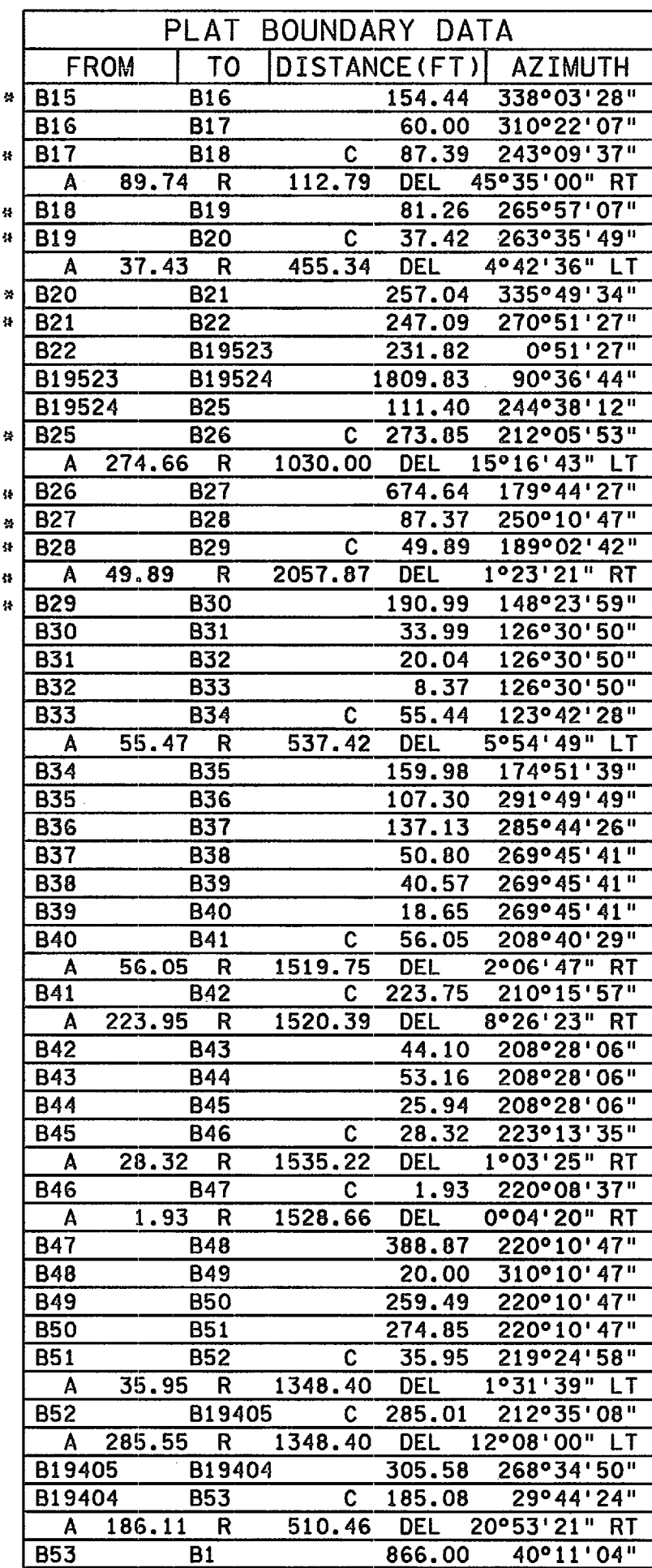
Sincerely,



Jennifer Wiltgen
Principal Planner

Copy sent via E-Mail:

Aaron Tag, Area Engineer
Hailu Shekur, Water Resources
Nick Olson, Water Resources
Nancy Jacobson, Design
Buck Craig, Permits
Doug Nelson, Right-of-Way
Chad Erickson, Traffic Engineering
Clare Lackey, Traffic Engineering
Natalie Ries, Noise
Blake Nelson, Geotechnical
Todd Carroll, Landscaping
Mark Larsen, Hennepin Surveys
Russ Owen, Metropolitan Council



EXISTING RETAINING WALL EASEMENT			
FROM	TO	DISTANCE(FT)	AZIMUTH
B43	B66	49.93	188°24'29"
B66	B44	18.23	278°24'29"

EXISTING DRAINAGE EASMENT			
FROM	TO	DISTANCE(FT)	AZIMUTH
B38	B64	1.13	119°17'54"
B64	B65	20.00	209°17'54"
B65	B39	36.43	299°17'54"

EXISTING DRAINAGE EASEMENT			
FROM	TO	DISTANCE(FT)	AZIMUTH
B31	B67	17.56	32°45' 16"
B67	B68	20.00	122°45' 16"
B68	B32	18.87	212°45' 16"

AZIMUTH ORIENTATION AND GRID CONVERSION
 Plat azimuths are oriented to the County Coordinate System with 0 degrees
 0 minutes 0 seconds being "GRID NORTH". Plat distances are ground lengths.

PLAT NO. 27-195
C.S. 2776(169-5)903
C.S. 2785(494-393)906
(SHEET 1 OF 2)

DOC. NO. 4748735

OFFICE OF REGISTRAR OF TITLES
HENNEPIN COUNTY, MINNESOTA
I HEREBY CERTIFY THAT THIS PLAT
HAS BEEN FILED IN THIS OFFICE
ON April 27th, 2010, AT 12:07 PM
IN CAB. _____ NO. _____

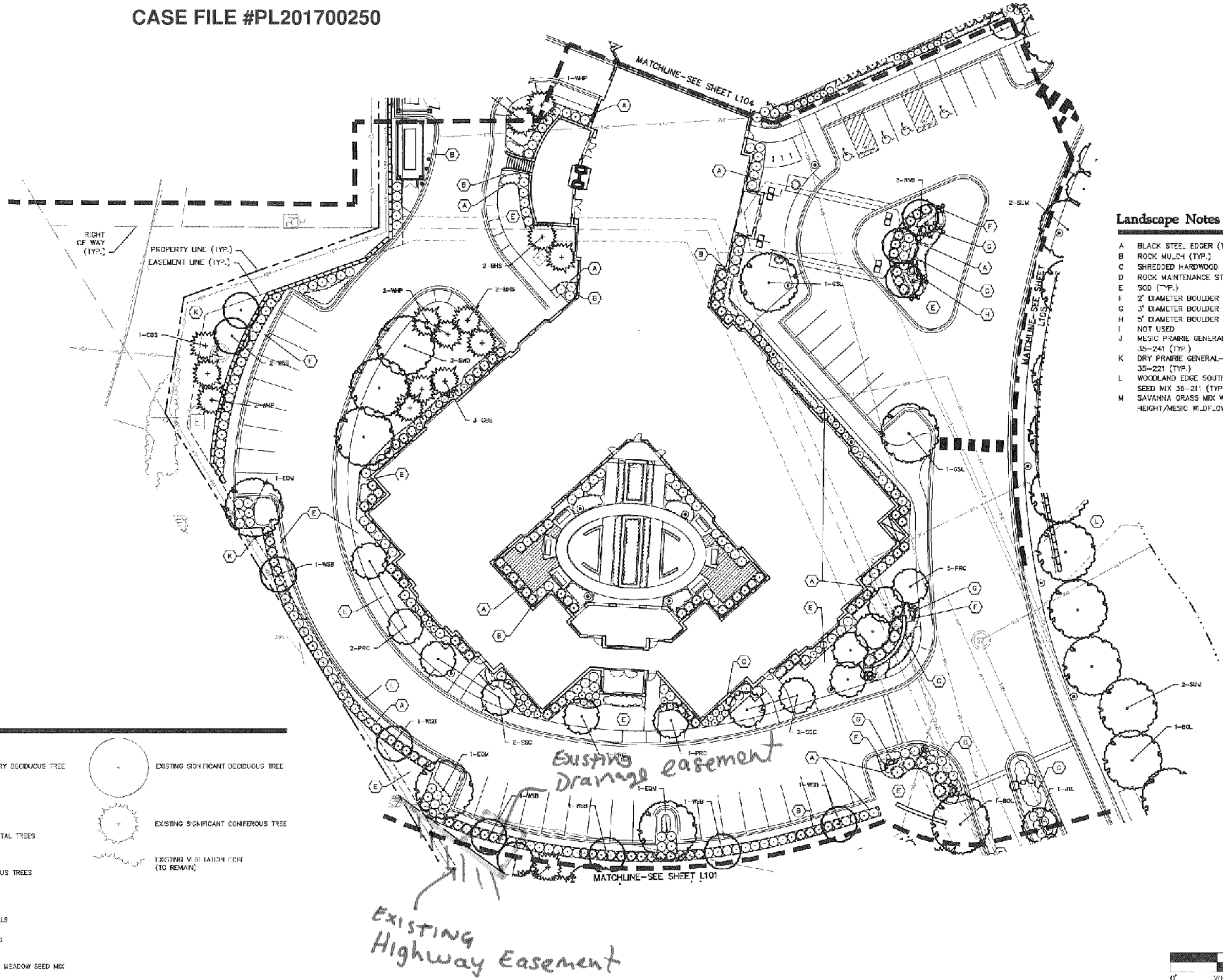
REGISTRAR OF TITLES

DOC. NO. 9506217

OFFICE OF COUNTY RECORDER
HENNEPIN COUNTY, MINNESOTA
I HEREBY CERTIFY THAT THIS PLAT
HAS BEEN FILED IN THIS OFFICE
ON APRIL 27th, 2010, AT 12:07 PM
IN CAB. _____ NO. _____

COUNTY RECORDER

CASE FILE #PL201700250



Plant Legend

- | | | | |
|--|--------------------------|--|--------------------------------------|
| | OVERSTORY DECIDUOUS TREE | | EXISTING SIGNIFICANT DECIDUOUS TREE |
| | ORNAMENTAL TREES | | EXISTING SIGNIFICANT CONIFEROUS TREE |
| | CONIFEROUS TREES | | EXISTING VEGETATION CORE (TO REMAIN) |
| | SHRUBS | | |
| | PERENNIALS | | |
| | BOULDERS | | |
| | MOW MEADOW SEED MIX | | |

Landscape Notes

- A BLACK STEEL EDGER (TYP.)
- B ROCK MULCH (TYP.)
- C SHREDDED HARDWOOD MULCH (TYP.)
- D ROCK MAINTENANCE STRIP (TYP.)
- E SOIL (TYP.)
- F 2' DIAMETER BOULDER (TYP.)
- G 3' DIAMETER BOULDER (TYP.)
- H 5' DIAMETER BOULDER (TYP.)
- I NOT USED
- J MESIC PRAIRIE GENERAL- MNDOT SEED MIX 35-241 (TYP.)
- K DRY PRAIRIE GENERAL- MNDOT SEED MIX 35-221 (TYP.)
- L WOODLAND EDGE SOUTH & WEST- MNDOT SEED MIX 35-211 (TYP.)
- M SAVANNA GRASS MIX WITH MIXED HEIGHT/MESIC WILDFLOWER MIX (TYP.)

Westwood

Westwood Professional Services, Inc.
7859 Arroyo Drive
Eden Prairie, MN 55344
Phone: (952) 937-5150
Fax: (952) 937-5922
Toll Free: (888) 937-5150
westwood.com

Designed: BJS
Checked: JMW
Drawn: BJS
Record Drawing by/date:

- Revisions**
- 1 05/10/2017 DRC Submittal
 - 2 06/08/2017 Per City Comments
 - 3 11/15/2017 DRC Submittal

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly certified PROFESSIONAL LANDSCAPE ARCHITECT under the laws of the State of Minnesota.
Jeffery R. Westwood
Date: 11/15/2017 License No.:

DRC Submittal

Prepared for:
Lifespace Communities

Friendship Village

Bloomington, Minnesota

PHASE 1 NORTH LANDSCAPE PLAN

Date: 06/22/2017
Sheet: L102 of 44

March 29th, 2018

Nick Johnson
City of Bloomington Planner
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For questions regarding these comments please contact Doug Nelson at 651-234-7583 or douglas.nelson@state.mn.us.

For questions about LUPs or the LUP process please contact Dan Phelps at 651-234-7585 or dan.phelps@state.mn.us.

Vegetation:

The trees on MnDOT right-of-way will need to be protected during construction. The protection around the tree will need to be to the drip line, even if that is on private property. Please reference the attached sheet for details on tree protection.

For questions regarding these comments please contact Todd Carroll (Todd.Carroll@state.mn.us or (651) 366-4617).

Geotechnical:

Please ensure that the retaining wall and all supporting elements remain on private property and off of MnDOT right-of-way.

For questions regarding this comment please contact Blake Nelson at 651-366-5599 or blake.nelson@state.mn.us.

Water Resources:

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Permits:

MnDOT has access control in this area and no impacts to MnDOT right-of-way will be allowed.

For questions related to these comments please contact Buck Craig at 651-234-7911.

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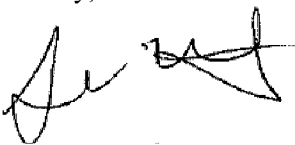
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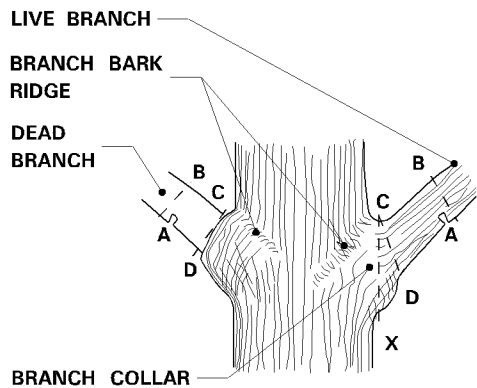
Sincerely,



Jennifer Wiltgen
Principal Planner

Copy sent via E-Mail:

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Blake Nelson, Geotechnical
Todd Carroll, Landscaping
Mark Larsen, Hennepin Surveys
Russ Owen, Metropolitan Council



- STEPS TO PRUNING WITH PRUNING SAW:
1. 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.

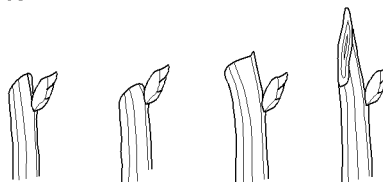
INCORRECT CUT FROM POINT C TO X (TOO CLOSE) WILL RESULT IN DISCONTINUOUS CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

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.

BRANCHES PRUNED AT TRUNK

(SHIGO METHOD)

CORRECT PRUNING CUT TOO CLOSE TOO LONG TOO SLANTED



LIVE BUD

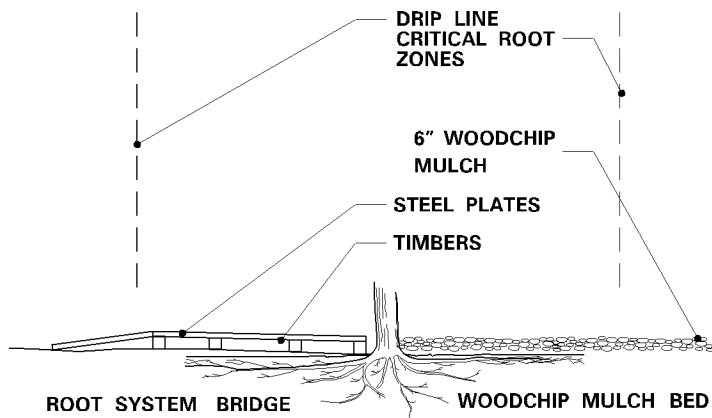
PRUNING NOTES:

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.

BRANCHES PRUNED TO LIVE BUD

PRUNING

(MnDOT 2571.3E.1 and 2571.3K.2.a(9))



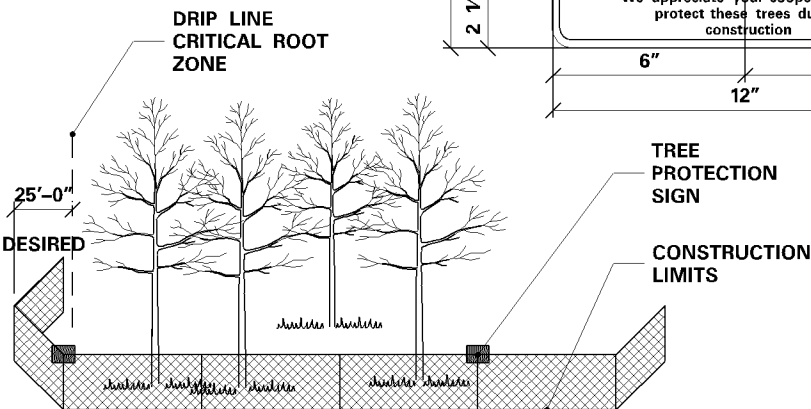
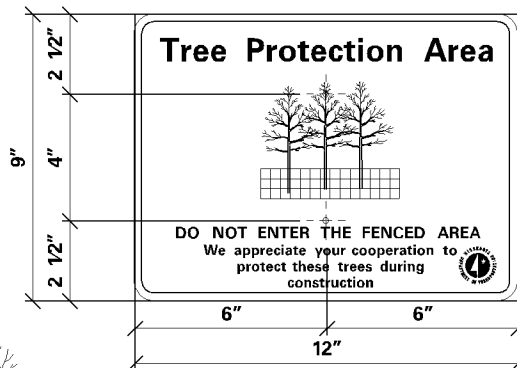
IF CONSTRUCTION VEHICLES MUST PASS OVER ROOT ZONES, THE CONTRACTOR MUST EITHER:

1. CONSTRUCT ROOT SYSTEM BRIDGES WITH STEEL PLATE SUPPORTED ON WOOD TIMBERS PLACED RADIALLY TO THE TREE TRUNK.
- OR
2. PLACE A 6 INCH LAYER OF WOODCHIP MULCH OVER A TYPE III GEOTEXTILE (MnDOT 3733).

OTHER VEGETATION PROTECTION MEASURES

(MnDOT 2572.3A.12)

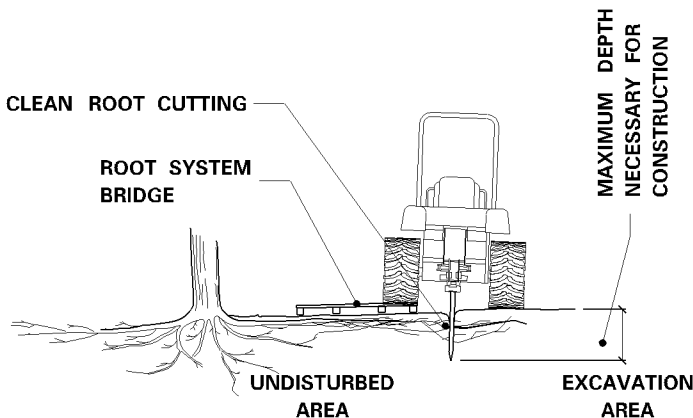
1. FABRICATE 12" X 9" X 3/8" SIGN WITH 0.75" RADIUS CORNERS.
2. SIGN SHALL BE WHITE WITH BLACK LETTERING.
3. ATTACH SIGN TO POST USING 1" LENGTH WOOD SCREWS.



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

TEMPORARY FENCE

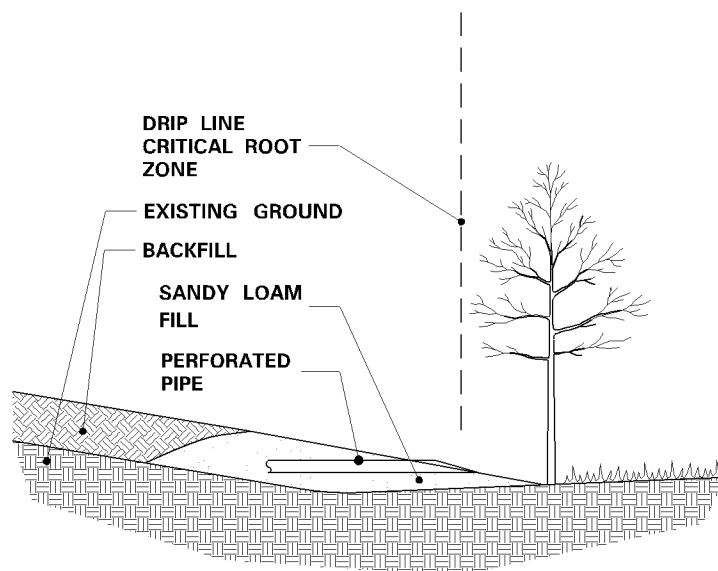
(MnDOT 2572.3A.1)



1. 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.
2. THE TREE ROOTS WILL BE CUT CLEANLY TO THE MINIMUM DEPTH NECESSARY FOR CONSTRUCTION.
3. IMMEDIATELY, AND CLEANLY CUT DAMAGED AND EXPOSED ROOTS.
4. ROOT ENDS EXPOSED BY EXCAVATION ACTIVITIES SHALL BE IMMEDIATELY COVERED WITH A 6" LAYER OF ADJACENT SOIL.
5. EXPOSED CUT OAK ROOTS SHALL BE IMMEDIATELY (WITHIN 5 MINUTES) TREATED WITH A WOUND DRESSING MATERIAL CONSISTING OF LATEX PAINT OR SHELLAC.

CLEAN ROOT CUTTING

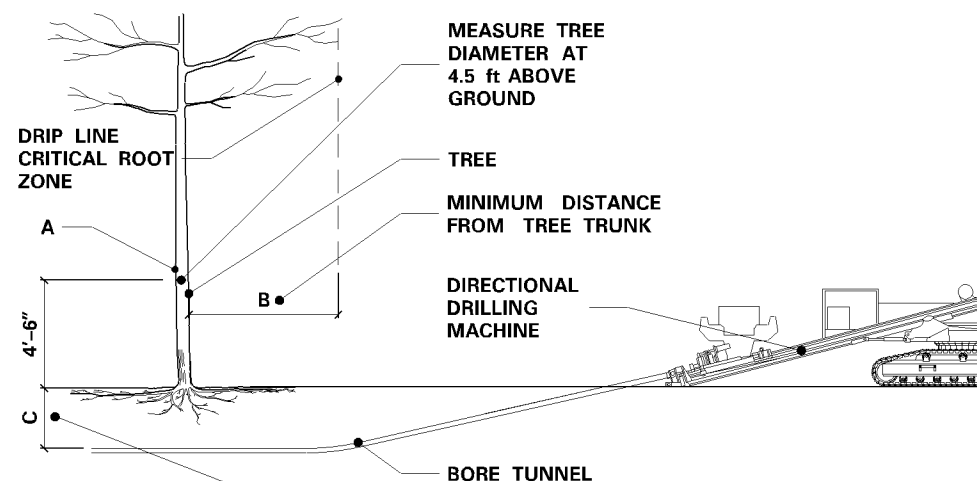
(MnDOT 2572.3A.2)



1. ANY FILL REQUIRED WITHIN THE DRIPLINE OF TREES, IS UNCOMPACTED ROOTING TOPSOIL BORROW.
2. EXCESSIVE FILL MAY REQUIRE PLACING PERFORATED PIPE WITH AT LEAST ONE DAYLIGHTED END OPENING AS AN AERATION SYSTEM.

ROOTING TOPSOIL BORROW

(MnDOT 2572.3A.4)



NOTE:

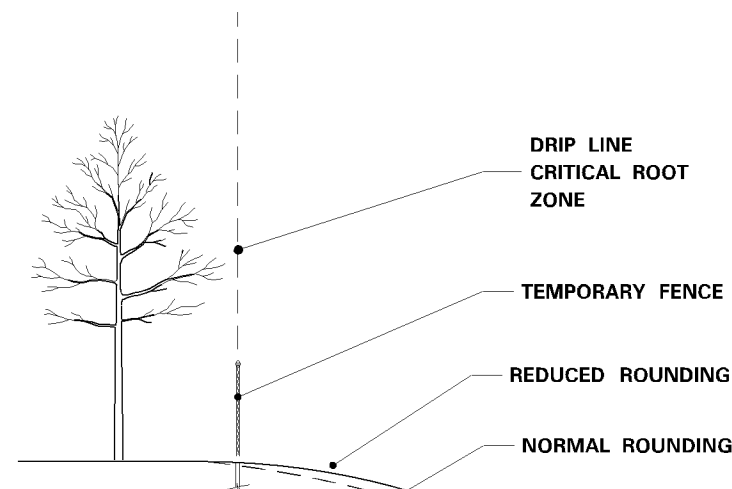
1. (A) IS THE DIAMETER OF TREES MEASURED 4'-6" FEET ABOVE THE GROUND AND IS TERMED THE "DIAMETER AT BREAST HEIGHT," (DBH).
2. USING A TREE DIAMETER TAPE, WRAP THE TAPE AROUND THE GIRTH OF THE TREE, AT THE DBH, BEING CAREFUL NOT TO TWIST THE TAPE.

TREE PROTECTION ZONE

A	B	C
< 2"	2'	2'
2-4"	4'	2.5'
> 4-9"	6'	2.5'
> 9-14"	10'	3'
> 14-19"	12'	3.25'
> 19"	15'	4'

UTILITY CONSTRUCTION

(MnDOT 2572.3A.5)



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

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

SLOPE ROUNDING

REVISION:
APPROVED: DECEMBER 11, 2015

CHIEF ENVIRONMENTAL OFFICER

MINNESOTA DEPARTMENT OF TRANSPORTATION
STATE DESIGN ENGINEER

REVISED:

APPROVED:

12-11-2015

PROTECTION AND RESTORATION OF VEGETATION

STANDARD PLAN 5-297.302

1 OF 1