



**Bloomington** Fire Station #3

**BID SET** 

BLOOMINGTON, MN 55425



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### Five Bugles Design

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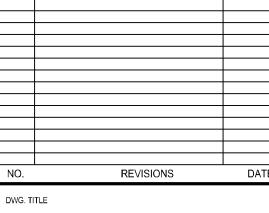
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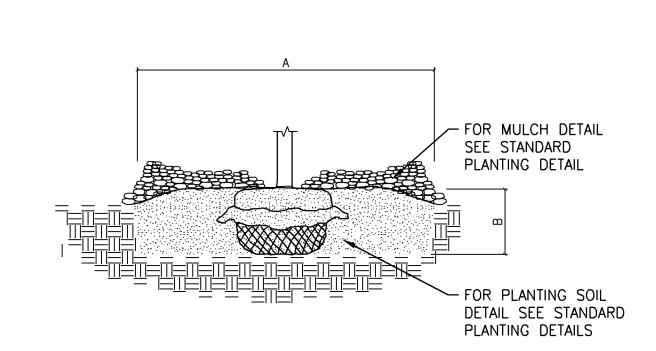
hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under

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LANDSCAPE

DATE 02-28-2019 CHK.



ABOVE ARE GUIDELINES, NOT REQUIREMENTS

MOISTURE AT ADEQUATE BUT NOT EXCESSIVE LEVELS. THE AMOUNTS LISTED

- 1. SCARIFY SIDES AND BOTTOM OF HOLE.
- 2. PROCEED WITH CORRECTIVE PRUNING.
- 3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
- 4. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
- 5. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT.
- 6. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
- 7. PLUMB AND BACKFILL WITH PLANTING SOIL
- 8. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
- 9. BACK FILL VOIDS AND WATER A SECOND TIME.

BALLED & BURLAPPED STOCK

10. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

### (MnDOT 2571.3F) INSTALLATION OF PLANTS \_ EXISTING GRADE OR MULCH DETAIL CUT AREA SEE STANDARD UPHILL HALF WATER BASIN PLANTING DETAIL (B) SOIL RIDGE TO HOLD WATER IN BASIN. DOWN HILL HALF WATER BASIN PLANT ACCORDING TO ROOT TYPE. SEE STANDARD PLANTING DETAILS (B) FOR PLANTING SOIL DETAIL SEE STANDARD PLANTING DETAILS (A)

PROJECT

LOCATION

BARE ROOT PERENNIALS MUST BE INSTALLED IN THE SPRING NO LATER THAN JUNE 1ST OR FOLLOW THE FALL DECIDUOUS PLANTING DATES. ACTUAL DATES MAY CHANGE DEPENDING UPON

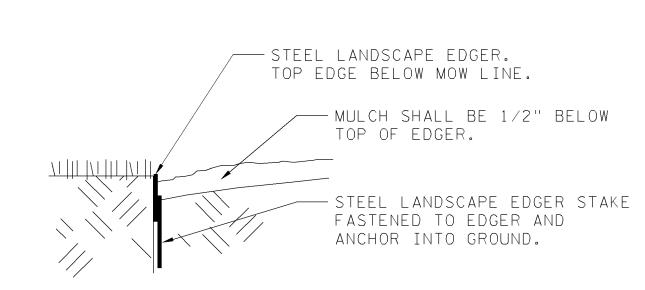
SEASONAL CONDITIONS, AS DETERMINED BY THE ENGINEER. FALL PLANTING IS NOT ALLOWED FOR BARE ROOT FORM OF THE FOLLOWING SPECIES: HAWTHORN, DOGWOOD, POPLAR, HACKBERRY, LINDEN, IRONWOOD, HONEYLOCUST, BIRCH, MOUNTAIN ASH, MAPLE,

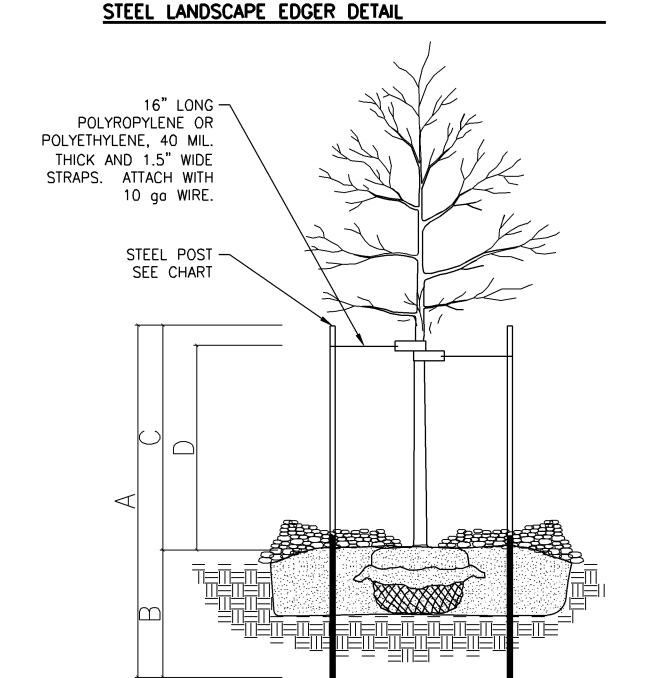
WILLOW, CRABAPPLE, PLUM/CHERRY, OAKS, AND

4. ALL REPLACEMENT PLANTS MUST BE INSTALLED DURING THE MONTH OF MAY DURING THE FIRST YEAR OF THE PLANT ESTABLISHMENT PERIOD.

		PLANT	ING DATES	BY ZONE		
KEY	SPRING AUTUM					UMN
NEI	DECIDUOUS	CONIFEROUS	PERENNIALS	SEEDLINGS	DECIDUOUS	CONIFEROUS
	APRIL 21	APRIL 21	MAY 1	APRIL 21	OCT. 1	AUG. 25
$\left  \begin{array}{c} (3) \end{array} \right $	TO	ТО	TO	TO	TO	ТО
	JUNE 1	JUNE 1	JUNE 15	JUNE 1	NOV. 1	SEPT. 15
	APRIL 7	APRIL 7	MAY 1	APRIL 7	OCT. 10	AUG. 25
$ $ $\overline{(4)}$	TO	ТО	TO	TO	TO	ТО
	JUNE 1	MAY 17	JUNE 15	MAY 17	NOV. 15	SEPT. 15

PLANT INSTALLATION PERIOD (MnDOT 2571.3F2)





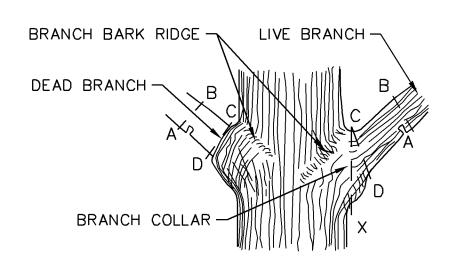
### STEEL POSTS TO BE NOTCHED OR DRILLED TO RETAIN GUY WIRES PLACE OUTSIDE OF ROOT BALL. DRIVE PLUMB REGARDLESS OF GROUND SLOPE.

- REQUESTS TO SUBSTITUTE RUBBER HOSE AND WIRE GUYING SYSTEMS WILL NOT BE APPROVED.
- 3. TREE STAKING IS NOT REQUIRED UNLESS SPECIFIED OR NECESSARY TO MAINTAIN TREES IN A PLUMB CONDITION WHERE VANDALISM, SOIL OR WIND CONDITIONS ARE A PROBLEM, OR AS DIRECTED BY THE
- 4. REMOVE WITHIN ONE YEAR.

STEEL POST SIZING							
CALIPER	CALIPER STEEL POST TYPE		В	С	D		
LESS THEN 4 INCHES			3'-0" MIN.	4'-0"	3'-0"		
GREATER THEN 4 INCHES			4'-0" MIN.	6'-0"	5'-0"		

### STAKING AND GUYING

(MnDOT 2571.311)



BRANCHES PRUNED AT TRUNK

TOO CLOSE PRUNING LONG

BRANCHES PRUNED TO LIVE BUD

PRUNING

PLANTING HOLE DIMENSIONS PLANT SIZE UP TO (A) MINIMUM HOLE (B) APPROXIMATE AND INCLUDING HÓLE DEPTH

(SHIGO METHOD)

STEPS TO PRUNING WITH PRUNING SAW: 1. CUT PART WAY THROUGH THE BRANCH

2. CUT COMPLETELY THROUGH BRANCH

3. AT BRANCH COLLAR CUT FROM POINT

INCORRECT CUT FROM POINT C TO X (TOO

CALLUS FORMATION AFTER ONE SEASON OF

CLOSE) WILL RESULT IN DISCONTINUOUS

(LEAVING BRANCH COLLAR BUT NOT THE

WILL RESULT IN CONTINUOUS DOUGHNUT

SHAPED CALLUS FORMATION AFTER ONE

1. PRUNE USING CLEAN AND SHARP

4. IF PRUNING IS NECESSARY OR IF

APRIL, MAY, JUNE OR JULY,

SCISSOR-TYPE PRUNER OR PRUNING

DORMANT SEASON OR EARLY SPRING. AVOID PRUNING OAKS IN APRIL, MAY

WOUNDS OCCUR TO OAK TREES IN

IMMEDIATELY PAINT CUT SURFACE OR

WOUND WITH LATEX PAINT OR SHELLAC.

(MnDOT 2571.3K2o9 and 2571.3E1)

THE BEST TIME TO PRUNE IS LATE

CORRECT CUT FROM POINT C TO D

STUB FROM POINT B TO A)

SEASON OF GROWTH.

JUNE OR JULY.

PRUNING NOTES:

AT POINT A.

C TO D.

GROWTH.

FROM POINT B TO A.

# HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL. DECIDUOUS & ORNAMENTAL

CONIFEROUS TREE RADIUS +3'

TRANSPLANT (RADIUS +2)

DECIDUOUS TREE (3'

1. PULL MULCH BACK NO LESS THAN 3" AND NO MORE

. SUBSIDING OR DETERIORATING MULCH IS ACCEPTABLE

3. ADD MULCH WHEN BELOW THE 3" MINIMUM DEPTH, DO

4. MULCH CONTAMINATED WITH SOIL MUST BE REMOVED AND

SQ. FT. PER PLANT

 $3^2 \times 11$ 

SPACING x SPACING

SPACING x 2

 $\left[\left(\frac{\text{SPADE DIAMETER}}{X}\right) + 1\right]^{2} \times 1$ 

 $\left[\left(\frac{3 / 5 \times HEIGHT}{2}\right) + 3\right]^{2} \times 1$ 

DEPTH IS MAINTAINED AT A MINIMUM 3" DEPTH.

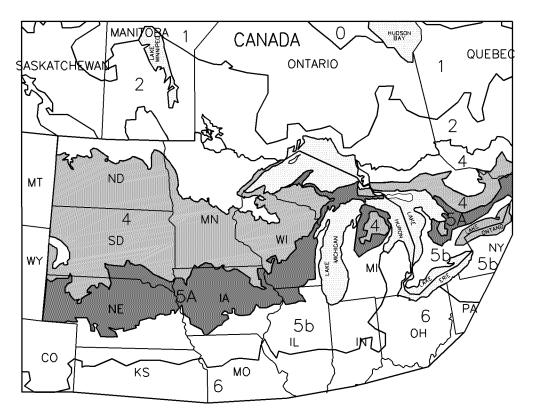
MULCH AREA CALCULATOR

NOT EXCEED THE 6" MAXIMUM DEPTH.

THAN 6" FROM TREES AND SHRUBS AT THE TRUNK OR

THROUGHOUT THE ESTABLISHED PERIOD IF THE MULCH

CASE FILE #PL201800344



ACCEPTABLE ZONES						
NES	LEGEND	MIN. TEMP.				
3		−34.4° TO −40°F				
4		−28.9° TO −34.4°F				
5a		−26.1° TO −28.9°F				
UNACCEPTABLE ZONES						

FOR ALL PLANT STOCK, DOCUMENT ACCEPTABILITY FOR HARDINESS IN THE MINNESOTA ZONE WHERE THE PROJECT SITE IS LOCATED, AS FOLLOWS:

A. PLANT STOCK CONTINUOUSLY GROWN FOR AT LEAST THE LAST TWO YEARS WITHIN THE ACCEPTABLE LIMITS SHOWN.

0, 1, 2, 5b and 6

B. PLANT STOCK, GROWN OUTSIDE THE ACCEPTABLE GROWING RANGE LIMITS. HAVING SEED SOURCE OR ROOT AND GRAFT STOCK ORIGINATING FROM THE ACCEPTABLE LIMITS SHOWN.

ACCEPTABLE PLANT STOCK GROWING RANGE LIMITS



### LANDSCAPE NOTES

- 1. CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL
- ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SOIL CONDITIONS
- . NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. 4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE
- 5. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
- 6. ALL PLANTS TO BE SPECIMEN GRADE, MINNESOTA-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS
  - -ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
  - -ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES -ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES
  - -ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING.
- -CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3 7. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE
- 8. PLANTS TO BE INSTALLED AS PER MNLA & ANSI STANDARD PLANTING PRACTICES
- 9. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY: TEMPORARY ONLY. 10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
- 11. OPEN TOP OF BURLAP ON B&B MATERIALS: REMOVE POT ON POTTED PLANTS: SPLIT AND BREAK APART PEAT POTS.
- 12. PRUNE PLANTS AS NECESSARY PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED
- 13. WRAP ALL SMOOTH-BARKED TREES FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
- 14. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR. 15. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS
- 16. BACKFILL SOIL AND TOPSOIL TO ADHERE TO MN/DOT STANDARD SPECIFICATION 3877 (SELECT TOPSOIL BORROW). AND TO BE EXISTING TOP SOIL FROM SITE, FREE OF ROOTS, ROCKS LARGER THAN ONE INCH, SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 4" DEPTH TOPSOIL FOR ALL LAWN GRASS AREAS AND 12" DEPTH TOPSOIL FOR TREE, SHRUBS. AND PERENNIALS.
- 17. MULCH TO BE AT ALL TREE. SHRUB. PERENNIAL. AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF SHREDDED HARDWOOD MULCH. SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL
- 18. EDGING TO BE COMMERCIAL BLACK STEEL EDGING OR SPADED EDGE, AS INDICATED. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. BLACK STEEL EDGING SHALL BE PLACED WITH METAL STAKES NO GREATER THAN 4-FOOT ON CENTER. FOR MOWERS TO CUT ABOVE WITHOUT DAMAGE. UTILIZE CURBS AND SIDEWALKS FOR EDGING WHERE POSSIBLE. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. INDIVIDUAL TREES AND SHRUBS TO BE SPADED EDGE. UNLESS NOTED
- OTHERWISE. 19. All DISTURBED AREAS TO BE SODDED OR SEEDED, UNLESS OTHERWISE NOTED. ALL TOPSOIL AREAS TO BE RAKED TO REMOVE DEBRIS AND ENSURE DRAINAGE. SLOPES OF 3:1 OR GREATER SHALL BE STAKED. SEED AS SPECIFIED AND PER MN/DOT SPECIFICATIONS. IF NOT
- INDICATED ON LANDSCAPE PLAN, SEE EROSION CONTROL PLAN. 20. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.
- 21. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR
- 22. REPAIR. REPLACE. OR PROVIDE SOD/SEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.
- 23. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER. 24. RAIN GARDEN NOTE: PROVIDE AND INSTALL EROSION CONTROL BLANKET AT RAIN GARDEN AREA SIDE SLOPES AFTER ALL SEEDING HAVE BEEN INSTALLED. BLANKET TO BE ONE SEASON GEOJUTE, MN/DOT CATEGORY 2 (STRAW 1S. WOOD FIBER 1S). OR APPROVED EQUAL BLANKET TO BE OVERLAPPED BY 4" AND ANCHORED BY SOD STAPLES. PLACE BLANKET PERPENDICULAR TO THE SLOPE. TRENCH IN EDGES OF BLANKET AREA TO PREVENT UNDER MINING. PROVIDE SILT FENCE AT TOP OF SLOPE AS NEEDED. RAIN GARDEN TO PROVIDE PROPER INFILTRATION AND DRAINAGE REQUIREMENTS PER ENGINEERS APPROVAL.

MULCH PLACEMENT

TYPE OF PLANT

CONIFEROUS TREES

DECIDUOUS AND

ORNAMENTAL TREES

ORNAMENTAL GRASS

VINES

ROSE BUSHES, PERENNIALS,

CONIFEROUS AND DECIDUOUS SHRUBS,

MACHINE-MOVED TREES OR SHRUBS

(MnDOT 2571.3H)

 $( \Upsilon = 3.1416)$ 

CITY OF BLOOMINGTON

> BLOOMINGTON, MN 55425 Bloomington

MINNESOTA

2301 EAST 86TH STREET

Fire Station #3

**BID SET** 



## **\***Five Bugles Design

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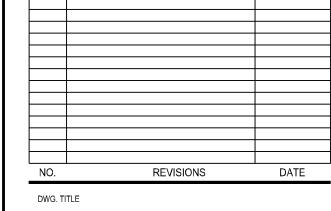
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LANDSCAPE **DETAILS** 

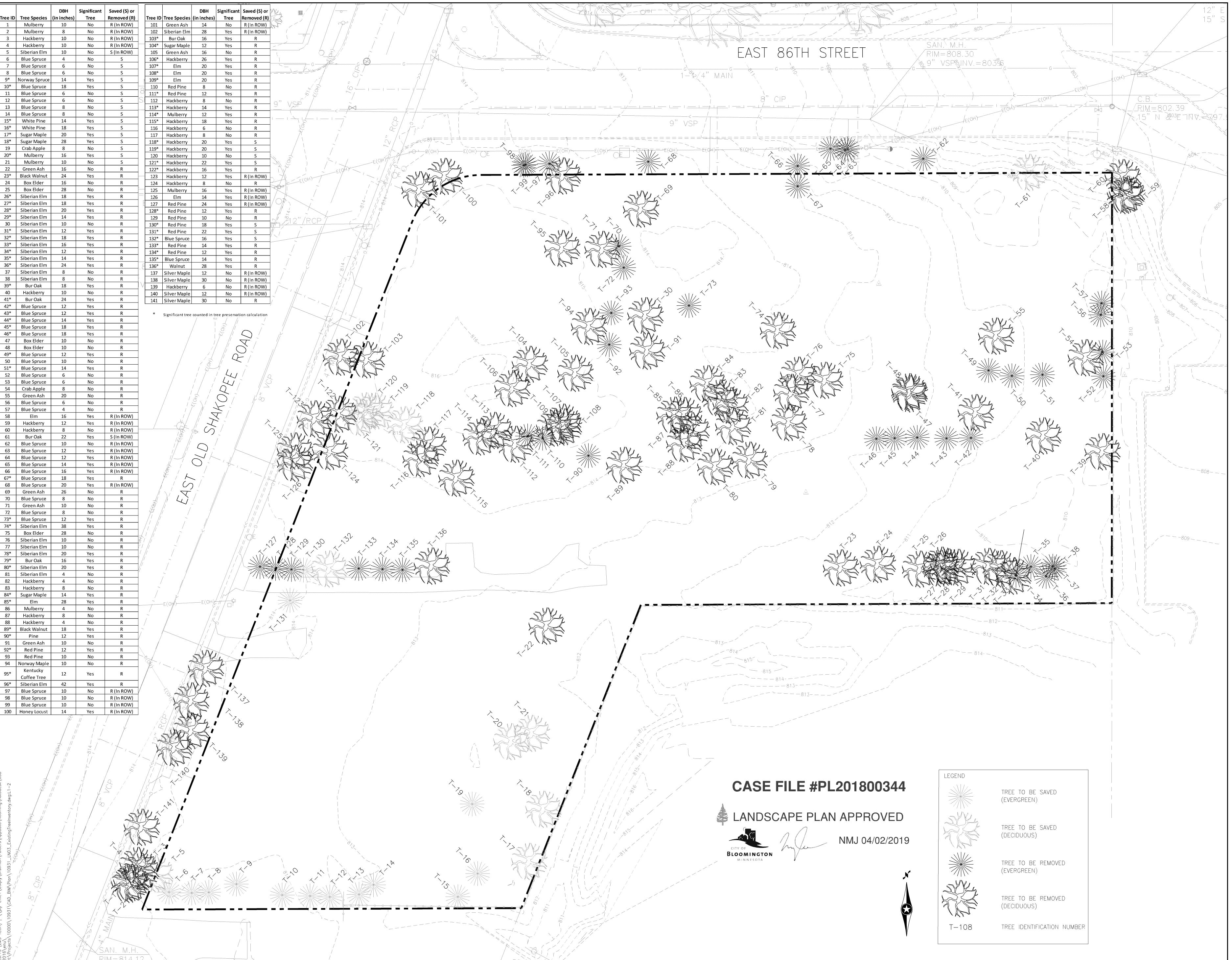
DATE 02-28-2019 CHK. PROJ. No. 484401 (SRF 10931.00)

1. ON 1:2 SLOPES OR GREATER, DO NOT CONSTRUCT THE

UPHILL HALF OF THE WATERING BASIN.

PLANTING ON SLOPES

H:\PROJECTS\10000\10931\CAD\_BIM\PLAN\10931\_LN02\_LANDSCAPEDETAILS.DWG: L2-0



H:\PROJECTS\10000\10931\CAD\_BIM\PLAN\10931\_LN03\_EXISTINGTREEINVENTORY.DWG: L1-2



Bloomington Fire Station #3

BID SET



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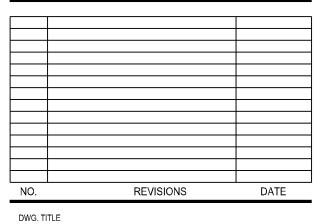
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.

SIGNATURE: YAUL D. SCHROEDER

Date 02-28-2019 License # \_\_\_25820

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## EXISTING TREE INVENTORY

DATE 02-28-2019

SCALE

DWN. CHK.

PROJ. No. 484401 (SRF 10931.00)

L1-2