

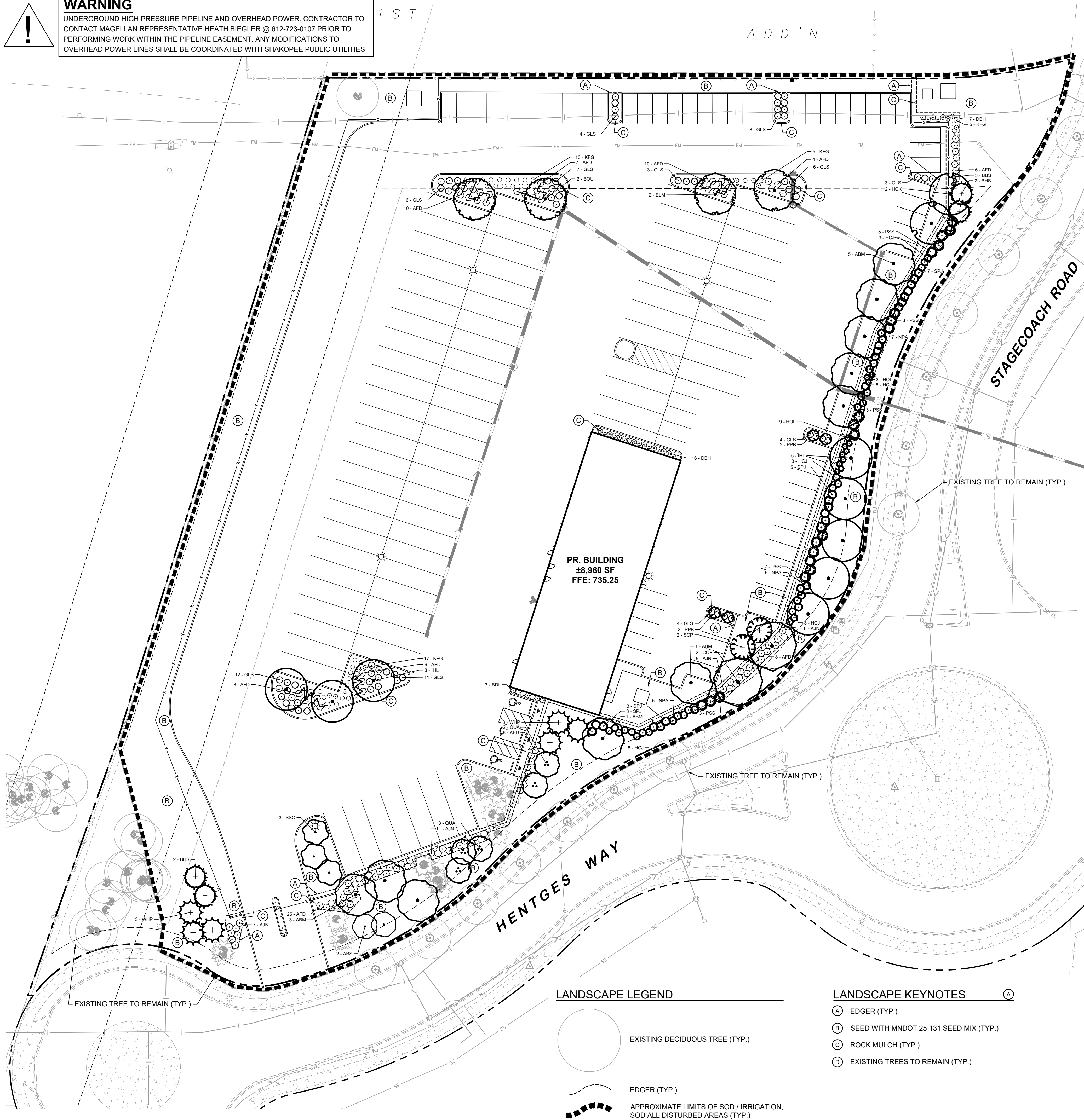


WARNING

UNDERGROUND HIGH PRESSURE PIPELINE AND OVERHEAD POWER. CONTRACTOR TO CONTACT MAGELLAN REPRESENTATIVE HEATH BIEGLER @ 612-723-0107 PRIOR TO PERFORMING WORK WITHIN THE PIPELINE EASEMENT. ANY MODIFICATIONS TO OVERHEAD POWER LINES SHALL BE COORDINATED WITH SHAKOPEE PUBLIC UTILITIES

1 S T

A D D ' N



LANDSCAPE LEGEND

- EXISTING DECIDUOUS TREE (TYP.)
- EDGER (TYP.)
- APPROXIMATE LIMITS OF SOD / IRRIGATION, SOD ALL DISTURBED AREAS (TYP.)

LANDSCAPE KEYNOTES

- (A) EDGER (TYP.)
- (B) SEED WITH MNDOT 25-131 SEED MIX (TYP.)
- (C) ROCK MULCH (TYP.)
- (D) EXISTING TREES TO REMAIN (TYP.)

LANDSCAPE SUMMARY

ZONED: I-2 HEAVY INDUSTRIAL

MINIMUM LANDSCAPE REQUIREMENTS

REQUIRED LANDSCAPING: 15% OF LOT AREA SHALL BE LANDSCAPED

REQUIRED TREES: FIRST 10,000 BUILDING FOOTPRINT S.F.: 2 TREES / 1,000 S.F.
10,001 - 50,000 BUILDING FOOTPRINT S.F.: 1.5 TREES / 1,000 S.F.
50,001 - 100,000 BUILDING FOOTPRINT S.F.: 1 TREES / 1,000 S.F.
> 100,001 BUILDING FOOTPRINT S.F.: 1 TREES / 1,500 S.F.
ROUNDED UP TO NEAREST 1,000 S.F.

8,367 S.F. / (2 / 1,000) = 17 TREES

1 SHADE TREE / 4,000 S.F. OF IMPERVIOUS AREA
S.F. ROUNDED UP TO NEAREST 1,000 S.F.

61,000 S.F. IMPERVIOUS AREA / 4,000 = 15 SHADE TREES

32 TREES = 17 TREES + 15 TREES

TREE PRESERVATION:

TOTAL DBH: 650"
ALLOWED REMOVAL: 60% OF INVENTORIED DBH
650" x 0.6 = 390"

REQUIRED MITIGATION: (DBH INVENTORIED)
SIGNIFICANT TREES: 1" - 1" (REMOVED, REPLACED)
HIGH PRIORITY TREES: 1" - 1.5" (REMOVED, REPLACED)

406" TOTAL DBH REMOVED = 291" SIGNIFICANT DBH + 115" HIGH PRIORITY DBH

TOTAL MITIGATION REQUIRED:
291" SIGNIFICANT DBH REPLACED = 291" SIGNIFICANT DBH X 1
173" HIGH PRIORITY REPLACED = 115" HIGH PRIORITY DBH X 1.5
TOTAL: 464" REPLACED = 291" SIGNIFICANT DBH REPLACED + 173" H.P. REPLACED

TOTAL TREES: 186 TREES = 464" / 2.5" CAL. TREE

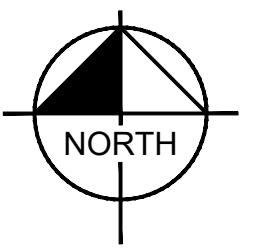
TOTAL TREES REQUIRED: 218 TREES = 32 TREES + 186 TREES MITIGATION

TOTAL TREES PROVIDED: 218 TREES = 32 EXISTING TREES TO REMAIN +144 TREES PROVIDED + 42 TREES MITIGATION FEE

42 TREES X \$400 FEE = \$16,800

PLANT KEY: SEE L1.1 FOR FULL SCHEDULE

CONIFEROUS TREES	CODE	COMMON NAME
BHS		BLACK HILLS SPRUCE
HCJ		HETZI COLUMN JUNIPER
HOL		HOLMSTRUP ARBORVITAE
NPA		NORTH POLE® ARBORVITAE
PSS		PRAIRIE STATESMAN® SWISS STONE PINE
SCP		SCOTCH PINE
SPJ		SPARTAN JUNIPER
WHP		WHITE PINE
ORNAMENTAL TREES	CODE	COMMON NAME
ABS		AUTUMN BRILLIANCE SERVICEBERRY
PPB		PARKLAND PILLAR BIRCH
QUA		QUAKING ASPEN
SSC		SPRING SNOW CRABAPPLE
OVERSTORY TREES	CODE	COMMON NAME
ABM		AUTUMN BLAZE MAPLE
BOU		BOULEVARD LINDEN
COF		KENTUCKY COFFEETREE
ELM		ACCOLADE ELM
HCK		COMMON HACKBERRY
IHL		IMPERIAL HONEYLOCUST
SHRUBS	CODE	COMMON NAME
AFD		ARTIC FIRE DOGWOOD
AJN		AMBER JUBILEE NINEBARK
BDL		BLOOMERANG DWARF PURPLE LILAC
DBH		DWARF BUSH HONEYSUCKLE
GLS		GRO-LOW FRAGRANT SUMAC
GRASSES	CODE	COMMON NAME
BBS		BIG BLUESTEM
KFG		KARL FOERSTER FEATHER REED GRASS



GRAPHIC SCALE IN FEET
0 15 30 60

PHASE II - CNG FLEET FUELING STATION LANDSCAPE PLAN

DATE 05/05/2023	DESIGNED BY SSL
SCALE AS NOTED	APPROVED BY RAH
SHEET L1.0	

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

RYAN A. MYLLESTED
DATE: 05/05/2023
L.C. NO. 53828



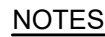
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L1.1



1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR
THAT PREVIOUSLY CLOSED TO 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.
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 BASKET. REMOVE THE TWINE.
REPAIR OR CORRECT STEM TO BE CIRCLED ROOTS.
PLUMB AND BACKFILL WITH PLANTING SOIL.
6. WATER THOROUGHLY WITHIN 2 HOURS TO
SETTLE PLANTS AND FILL VOIDS.
8. BACK FILL VOIDS AND WATER SECOND TIME.
9. MULCH WITHIN 2" OF THE PLANT. IF THE SECOND
WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
10. FINAL LOCATION OF TREE TO BE CIRCLED ROOTS
OWNER.



1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3. REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCULING FIBROUS ROOTS. REMOVE OR CORRECT STEMS GIRDLING ROOTS.
4. PLUMB AND BACKFILL WITH PLANTING SOIL.
5. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6. BACK FILL VOIDS AND WATER SECOND TIME.
7. PLANT MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
8. MIX IN 3-4" OF ORGANIC COMPOST.

2

L1.1



L1.1

CONIFEROUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	CAL/SIZE
	BHS	4	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	B & B	6' HT.
	HCJ	22	JUNIPERUS CHINENSIS 'HETZII COLUMNARIS'	HETZII COLUMN JUNIPER	B & B	6' HT.
	HOL	12	THUJA OCCIDENTALIS 'HOLMSTRUP'	HOLMSTRUP ARBORVITAE	B & B	6' HT.
	NPA	17	THUJA OCCIDENTALIS 'ART BOE'	NORTH POLE® ARBORVITAE	B & B	6' HT.
	PSS	21	PINUS CEMBRA 'HERMAN'	PRAIRIE STATESMAN® SWISS STONE PINE	B & B	6' HT.
	SCP	2	PINUS SYLVESTRIS	SCOTCH PINE	B & B	6' HT.
	SPJ	18	JUNIPERUS CHINENSIS 'SPARTAN'	SPARTAN JUNIPER	B & B	6' HT.
	WHP	6	PINUS STROBUS	WHITE PINE	B & B	6' HT.
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	CAL/SIZE
	ABS	2	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	B & B	1.5" CAL.
	PPB	4	BETULA PLATYPHYLLA 'JEFPARK' TM	PARKLAND PILLAR BIRCH	B & B	1.5" CAL
	QUA	5	POPULUS TREMULOIDES	QUAKING ASPEN	B & B	6' HT.
	SSC	3	MALUS X 'SPRING SNOW'	SPRING SNOW CRABAPPLE	B & B	1.5" CAL.
OVERSTORY TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	CAL/SIZE
	ABM	10	ACER X FREEMANII 'AUTUMN BLAZE'	AUTUMN BLAZE MAPLE	B & B	2.5" CAL.
	BOU	2	TILIA AMERICANA 'BOULEVARD'	BOULEVARD LINDEN	B & B	2.5" CAL.
	COF	2	GYMNOCLADUS DIOICA	KENTUCKY COFFEETREE	B & B	2.5" CAL.
	ELM	2	ULMUS JAPONICA 'MORTON' TM	ACCOLADE ELM	B & B	2.5" CAL.
	HCK	2	CELTIS OCCIDENTALIS	COMMON HACKBERRY	B & B	2.5" CAL.
	IHL	8	GLEDITSIA TRIACANTHOS VAR. INERMIS 'IMPERIAL'	IMPERIAL HONEYLOCUST	B & B	2.5" CAL.
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPACING
	AFD	92	CORNUS SERICEA 'ARTIC FIRE'	ARTIC FIRE DOGWOOD	#5 CONT.	4' O.C.
	AJN	29	PHYSOCARPUS OPULIFOLIUS 'JEFAM' TM	AMBER JUBILEE NINEBARK	#5 CONT.	4' O.C.
	BDL	7	SYRINGA X 'SMNJRPJ' TM	BLOOMERANG DWARF PURPLE LILAC	#5 CONT.	4' O.C.
	DBH	23	DIERVILLA LONICERA	DWARF BUSH HONEYSUCKLE	#5 CONT.	3' O.C.
	GLS	68	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	#5 CONT.	4' O.C.
GRASSES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPACING
	BBS	3	ANDROPOGON GERARDII NATIVE	BIG BLUESTEM	#1 CONT.	30" O.C.
	KFG	40	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	#1 CONT.	30" O.C.

- CONTRACTOR SHALL CONTACT COMMON GROUND ALLIANCE AT 811 OR CALL 811.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. 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 LANDSCAPE CONTRACTOR.
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 Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
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 BB 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 TREES.
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 DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND NATURAL IN COLOR, OR APPROVED EQUAL. ROCK MULCH TO BE BUFF LIMESTONE, 1 1/2" TO 3" DIAMETER, AT MINIMUM 3" DEPTH, OR APPROVED EQUAL. ROCK MULCH TO BE ON COMMERCIAL GRADE FILTER FABRIC, BY TYPE, OR APPROVED EQUAL WITH NO EXPOSURE. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
18. EDGING TO BE COMMERCIAL GRADE VALLEY-VIEW BLACK DIAMOND (OR EQUAL) POLY EDGING OR SPADED EDGE, AS INDICATED. POLY EDGING SHALL BE PLACED WITH SMOOTH CURVES AND STAKED WITH METAL SPIKES NO GREATER THAN 4 FOOT ON CENTER WITH BASE OF TOP BEAD AT GRADE, 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 TREE, SHRUB, OR RAIN-GARDEN BEDS TO BE SPADED EDGE, UNLESS NOTED OTHERWISE. EDGING TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
19. ALL DISTURBED AREAS TO BE 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.
20. 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.
21. REPAIR, REPLACE, OR PROVIDE SOD/SEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.
22. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
23. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD: 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 45 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECIITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

HEREBY CERTIFY THAT THIS PLAN,
SPECIFICATION OR REPORT WAS PREPARED BY
ME OR UNDER MY DIRECT SUPERVISION AND
THAT I AM A DULY LICENSED PROFESSIONAL
LANDSCAPE ARCHITECT UNDER THE LAWS OF
THE STATE OF MINNESOTA.

RYAN A. HYLLESTED

DATE: 05/05/2023 MN LIC. NO. 53828