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LANDSCAPE ARCHITECT
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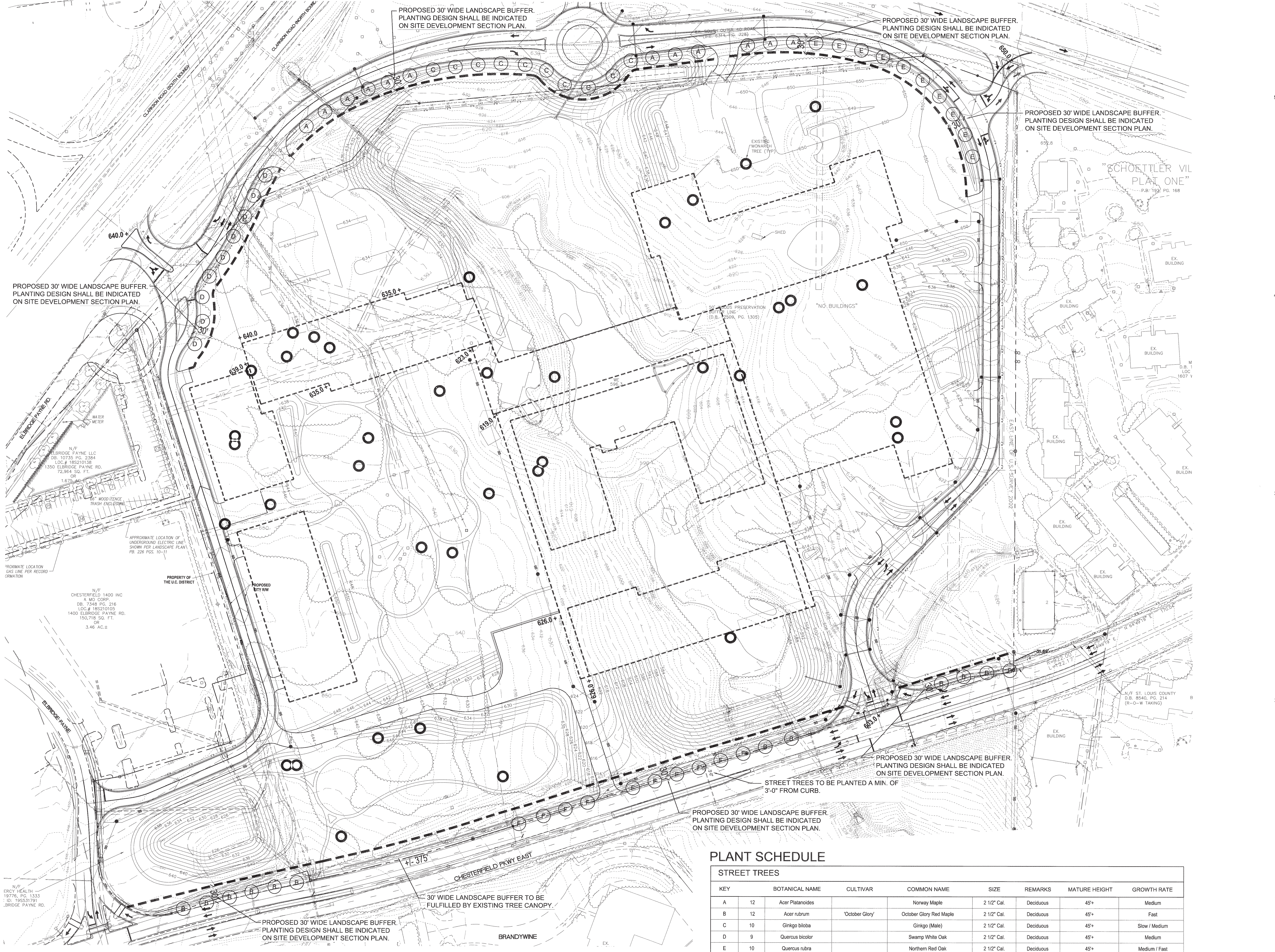
SITE DEVELOPMENT CONCEPT PLAN FOR:
MERCY HEALTH CAMPUS
MERCY HEALTH SYSTEMS
14528 South Outer Forty, Suite 100
Chesterfield, Missouri 63107
Attn: Terry Bader Phone: 314-628-3656

#	DESCRIPTION	DATE
1	CITY SUBMITTAL	9-13-2012
2	CITY COMMENTS	10-23-2012

DRAWING TITLE
CONCEPTUAL LANDSCAPE PLAN

Drawing No.
L1

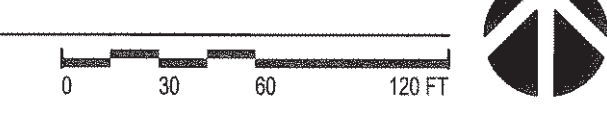
Forum # 601-01017 Consult #



PLANT SCHEDULE

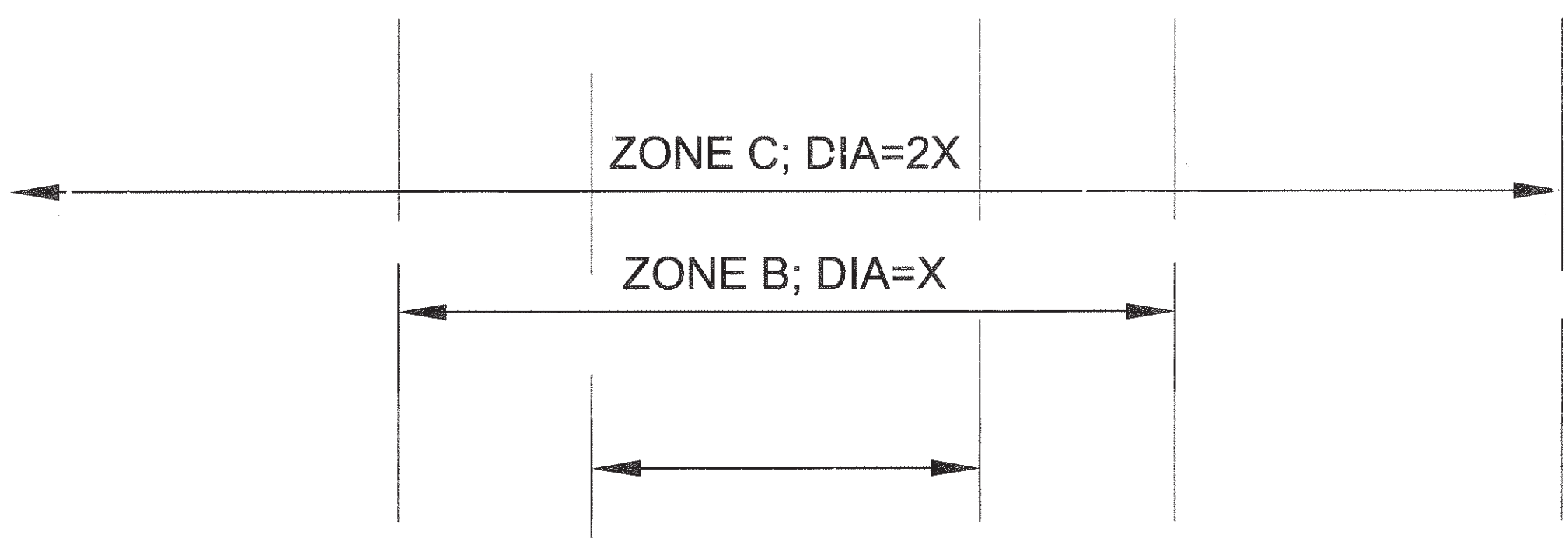
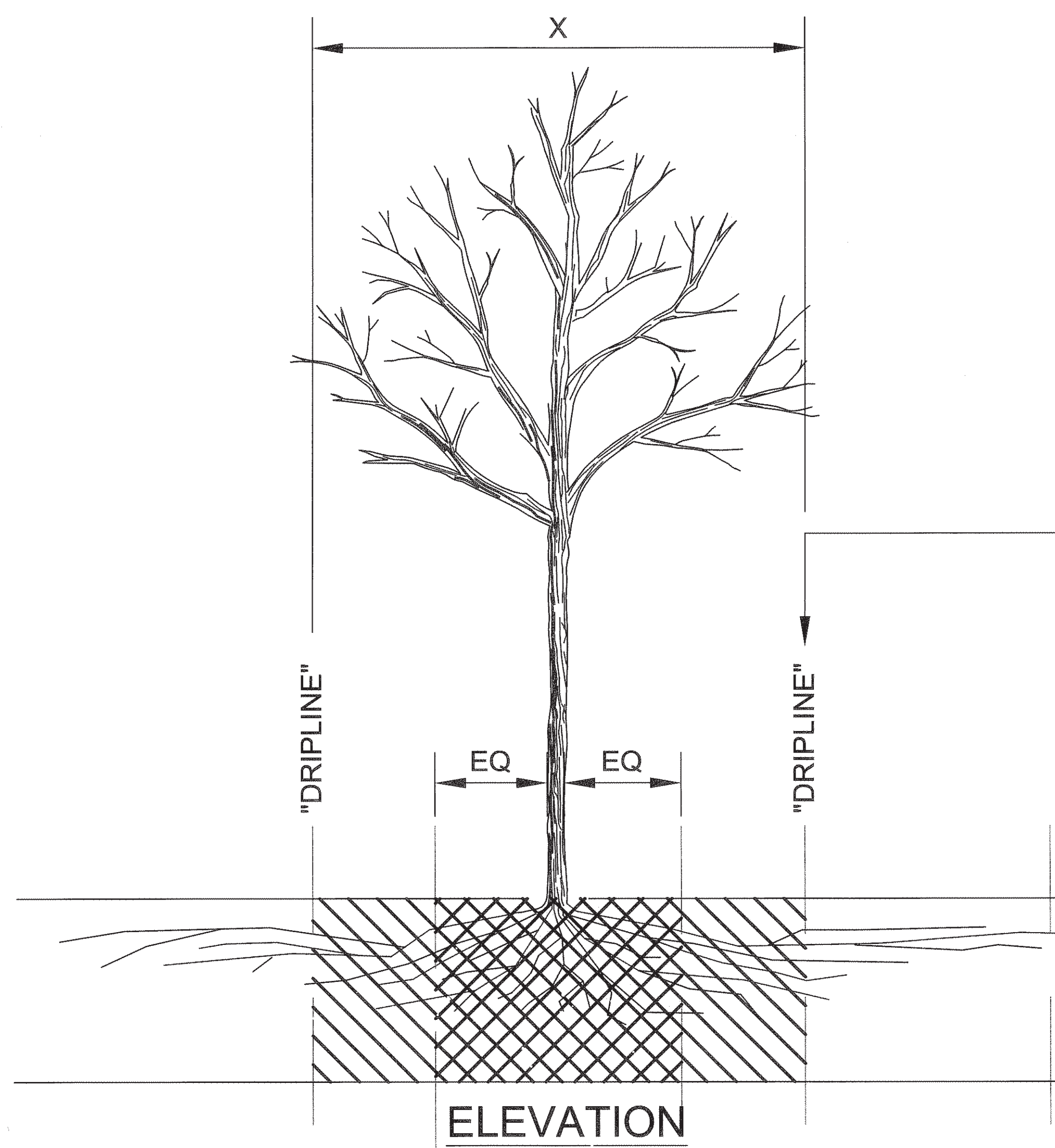
STREET TREES							
KEY	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	REMARKS	MATURE HEIGHT	GROWTH RATE
A	Acer Platanoides		Norway Maple	2 1/2" Cal.	Deciduous	45'+	Medium
B	Acer rubrum	'October Glory'	October Glory Red Maple	2 1/2" Cal.	Deciduous	45'+	Fast
C	Ginkgo biloba		Ginkgo (Male)	2 1/2" Cal.	Deciduous	45'+	Slow / Medium
D	Quercus bicolor		Swamp White Oak	2 1/2" Cal.	Deciduous	45'+	Medium
E	Quercus rubra		Northern Red Oak	2 1/2" Cal.	Deciduous	45'+	Medium / Fast
F	Zelkova serrata		Zelkova	2 1/2" Cal.	Deciduous	45'+	Fast

1 CONCEPTUAL LANDSCAPE PLAN
1" = 60'-0"



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FENCING/ROOT PROTECTION

- Fencing to be provided and maintained as specified per plan
- Engineer's approval required for use/access within zone b. permission for use/access requires surface protection for all unfenced, unpaved surfaces within zone b

*** SURFACE PROTECTION MEASURES**

1. Mulch layer, 6"-8" depth
2. 3/4" plywood
3. Steel plates

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" diameter requires engineer's approval
3. Tunneling required to install lines 3'-0" below grade or deeper

ZONE B (DRIPLINE)

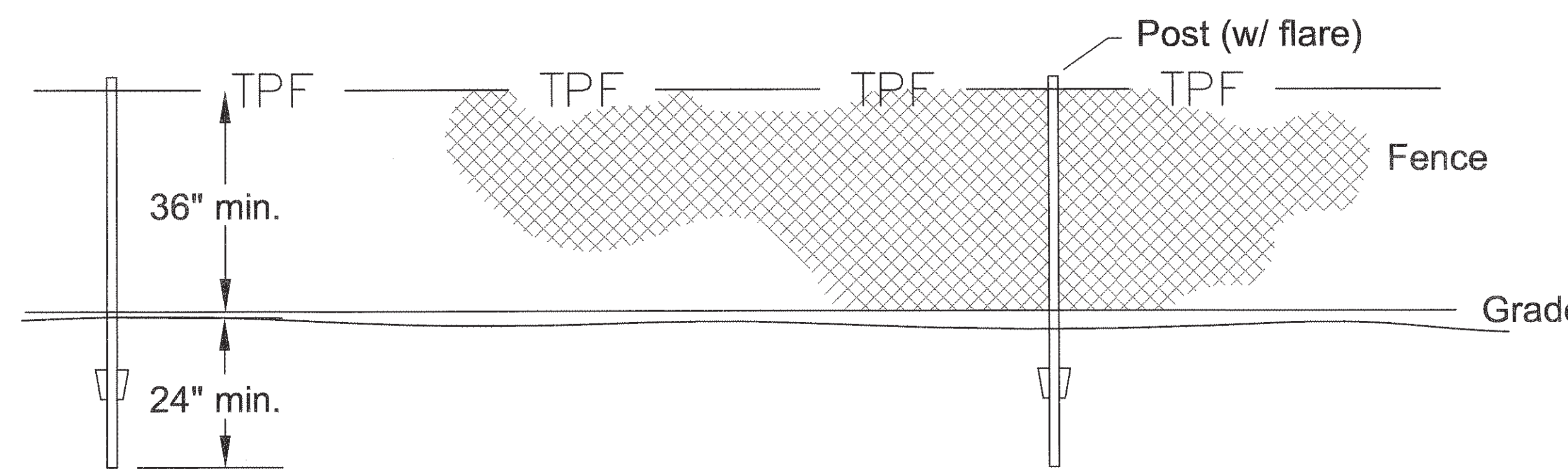
Operation of heavy equipment and/or stockpiling of materials subject to engineers approval. Surface protection* measures required trenching allowed as follows:

- Excavation by hand or with hand-driven trencher may be required
- Limit trench width. do not disturb Zone A maintain 2/3 or more of Zone B in undisturbed condition
- Tunneling may be required for trenches deeper than 3'-0"

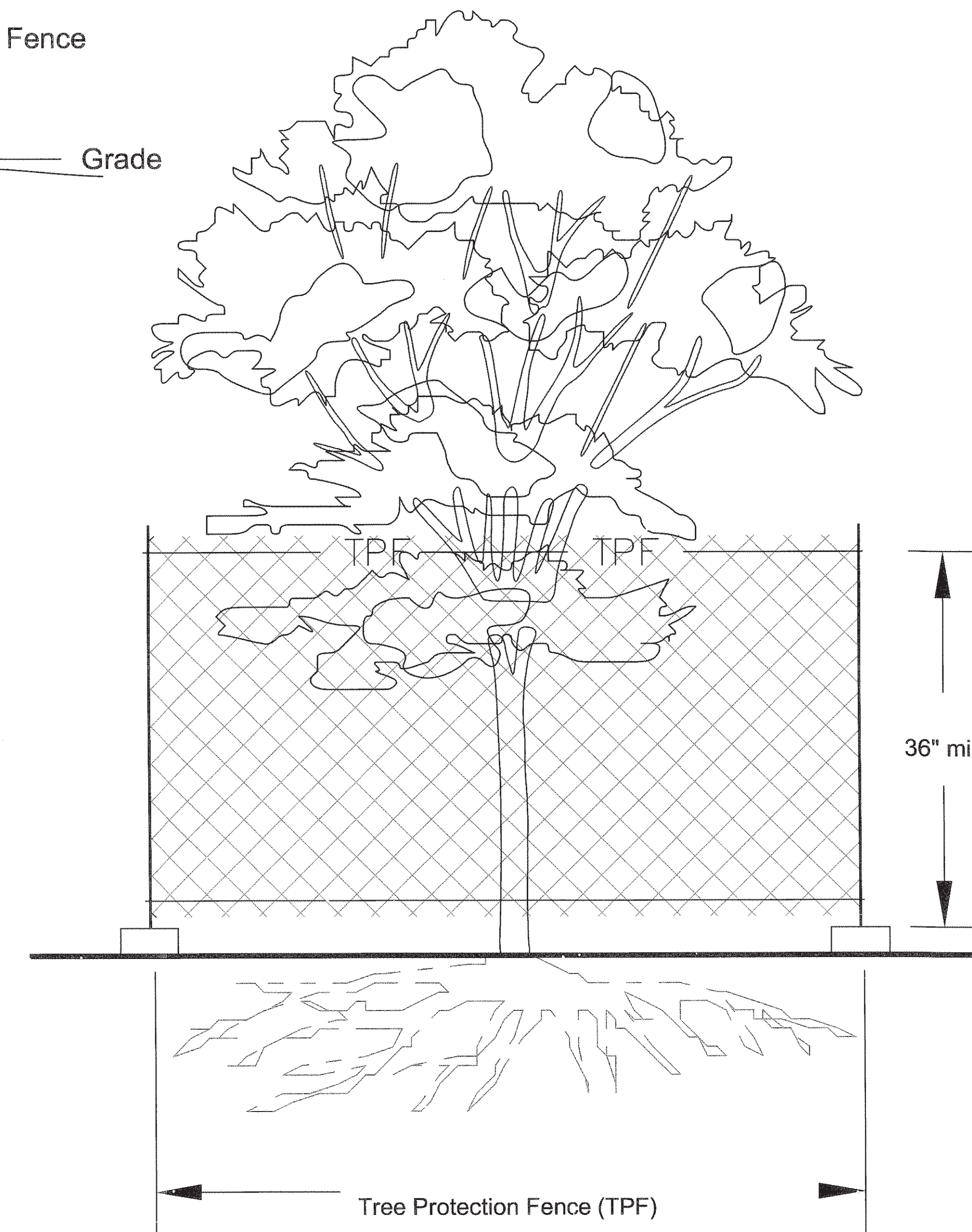
ZONE C (FEEDER ROOT ZONE)

Operation of heavy equipment and/or stockpiling of materials subject to engineers approval. Surface protection* measures may be required trenching with heavy equipment allowed as follows:

- Minimize trench width
- Maintain 2/3 or more of Zone C in undisturbed condition



TREE PROTECTION FENCE
N.T.S.



TREE PROTECTION NOTES:

- 1 Critical Root Zone is the minimum area of a tree's root zone that should be protected. It is calculated by multiplying the tree's diameter (in inches) by 1.5 to determine the radius of the protected area. (i.e. Tree Protection fencing should be located in a circle around the tree at the radius shown.)
- 2 Structural Critical Root Distance is the minimum distance that any root severance can occur. Severing roots any closer will greatly increase the chance of catastrophic tree failure due to loss of supporting roots. The distance is based on Coder, K. 1996. Construction Damage Assessments: Trees and Sites. University of Georgia, October, 1996. (Tool #8).
- 3 Action Item includes any required tree protection action to be taken including the following:
 - **OK** - Tree is adequate distance away from construction activity that no protection measures are required.
 - **TBR** - To Be Removed
 - **Fence xx** - Construction fencing will be installed prior to any grading or construction activity. See the map version of the Tree Protection Plan for specific location. The xx refers to radius minimum and maximum distance from tree to fence. The fence will delineate an area that is considered the "Tree Protection Zone". While fence is in place there should be no grading, equipment access, material storage, or root disturbance of any kind within the "Tree Protection Zone" delineated by the fencing. Fencing will be 48" tall heavy-gauge orange plastic construction grade that is adequately supported without sagging. Fencing will remain in place for the duration of the grading associated with the installation of new stormwater pipe. It can only be moved to permit the installation of new soil near and around trees as indicated and only with permission of City Arborist.
 - **Mulch** - Apply an 8-10 inch deep layer of wood chips around the tree at a radius equal to the "Critical Root Zone Radius". Do not pile up wood chips at the tree's base. Mulch only needs to be applied where equipment traffic is required that will impact the tree's critical root zone. Mulch layer will reduce soil compaction and rutting. An additional layer of 3/4" plywood, plastic, or rubberized material may be needed on top of mulch to reduce compaction. Remove chips after project completion without damaging the original grade and without damaging roots that may be present underneath.

NOTES:

Tree Protection During Construction

A three- to six-foot high temporary fence shall be placed at dripline of tree to be saved, or a distance of 15' from the trunk, whichever is greater. The fence shall completely encircle the tree(s) or as shown on plans. Install fence posts using pier blocks if appropriate. Avoid driving posts or stakes into major roots. Fencing may extend beyond dripline or 15' if plan design allows. Owner may permit alternative fencing methods if site prohibits installation of pier blocks (steep slopes, soft soils, etc.).

Treatment of Roots Exposed During Construction

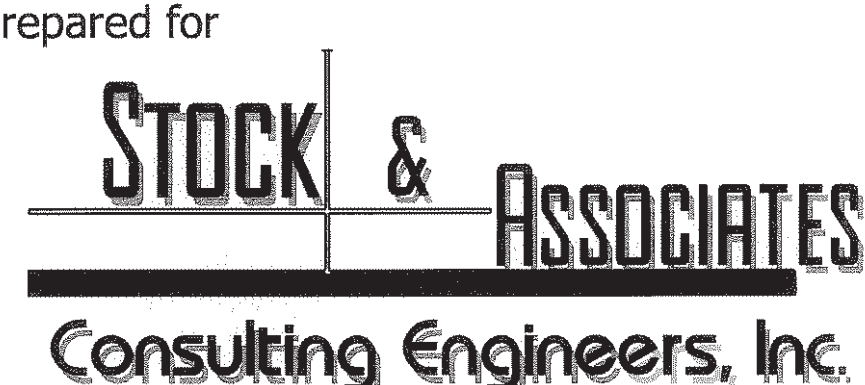
For roots over 1" in diameter damaged during construction; make a clean, straight cut to remove damaged portion of root. all exposed roots shall be temporarily covered with damp burlap to prevent drying, and covered with soil as soon as possible. Work within protection fence shall be done manually. No excavation, stockpiling of materials, vehicular traffic, or storage of equipment or machinery shall be allowed within the limit of the fencing.

PLAN VIEW

Prepared by



Prepared for



Preliminary Tree Protection Plan

Mercy Site (Phase 1)

40 Acres, I-64 and Clarkson Road
Chesterfield, Missouri

Tree Protection Plan prepared by:
Skip Kincaid, ISA Board Certified
Master Arborist (MW-0155BM)

Tree data used to produce this map were collected on January 16, 17, and 18, 2012

Tree Protection Plan mapping prepared by: Ken Christensen, ISA Board Certified Arborist (A-0690)

Sheet 2
of 2