

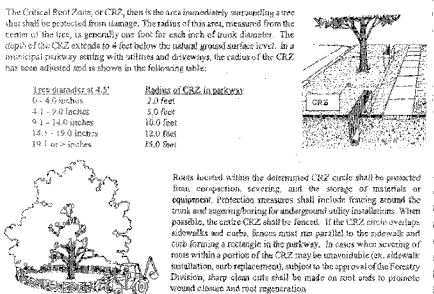
PROTECTION OF PUBLIC TREES

The Forestry Division of the Downers Grove Public Works Department periodically inspects the trees located in the public right-of-way. Complaints regarding tree, including tree protection, are located in Chapter 24 of the Downers Grove Municipal Code. The following describes tree protection requirements.

Tree protection shall include avoiding damage to the above ground tree branches and trunk, and the below ground root system and surrounding soil. Damage to any of the most vital parts of a tree must be prevented from occurring or changes in the soil environment caused by compaction. Damage to the roots can lead to irreversible decline or death in the coming years, unless the area around the tree trunk is protected during construction activities. The majority of tree's extensive and root spreading occur in the upper 18 inches of soil closest to the tree trunk depending on the size of the tree.

The Critical Root Zone, or CRZ, often is the area immediately surrounding a tree that shall be protected from damage. The radius of this area, measured from the center of the tree, is generally one foot for each inch of trunk diameter. The extent of the CRZ extends to a foot below the natural ground surface level. In a municipal publicly owned right-of-way, the radius of the CRZ must be adjusted and shown in the following table:

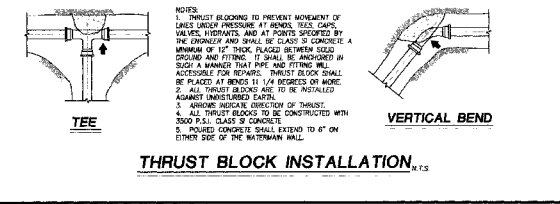
Tree Diameter at 4.5' Radius of CRZ in pathway	Radius of CRZ in pathway
0 - 4.5 inches	2.0 feet
4.5 - 9.0 inches	3.0 feet
9.0 - 13.5 inches	4.0 feet
13.5 - 18.0 inches	5.0 feet
18.0 - 22.5 inches	6.0 feet



In addition to any fees that may be assessed for violation of the municipal codes in Chapter 24, violators shall pay to the Village a sum equal to the value or market value of the tree lost as a result of the violation. This includes damage to roots, the above ground or below ground portion of the tree. The value of a tree is determined by the Forestry Division using the most current edition of the Guide for Tree Appraisal prepared by the Council of Tree & Landscape Appraisers, and shall published and copyrighted by the International Society of Arboriculture. Various factors used in the tree value formula include: species, size, health, location, and the most current edition of the Species Appraisal and Appraisal Factors for Valuation prepared by the same organization.

For more information, contact the Forestry Division at (630) 414-5440

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Design AC

Advantage Acoustic Design Top Values

Photometric Data:

Beam Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z																									
Beam 1	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.56	0.54	0.52	0.50	0.48	0.46	0.44	0.42	0.40	0.38	0.36	0.34	0.32	0.30	0.28	0.26	0.24	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.06	0.04	0.02	0.00

Specifications:

Quality Lighting

Dimensional and Physical Data:

Model	Height	Width	Depth	Weight
AC-16-BL-HPS-150-120-CC-FD	15.00	12.00	12.00	15.00

Ordering Information:

ORDERING EXAMPLE:
 AC-16-BL-HPS-150-120-CC-FD

DESIGN: AC-16-BL-HPS-150-120-CC-FD

QUALITY LIGHTING

PROJECT NAME: NELSON MEADOW

QTY.	LABEL	LUMINAIRE DESCRIPTION / MOUNTING HEIGHT	LUMENS
12	B	AC-16-BL-HPS-150-120-CC-FD	9500

PREPARED BY: Quality Lighting

PREPARED FOR: C. M. LAVOIE & ASSOCIATES

FIXTURES AND POLES MANUFACTURED BY: QUALITY LIGHTING

FOR INFORMATION CONTACT DAVE HOLLADAY AT (630) 545-1326

STATISTICAL AREA - ROAD 1: BROOKBANK, JEFFERSON, NELSON

AVERAGE FC	= 4.5
MAXIMUM FC	= 9.0
MINIMUM FC	= 1.0
AVERAGE MOUNTING H	= 4.3
MAXIMUM MOUNTING H	= 5.3
MINIMUM MOUNTING H	= 2.0
TOTAL NUMBER OF POINTS	= 270

STATISTICAL AREA - ROAD 2: CARPENTER

AVERAGE FC	= 4.5
MAXIMUM FC	= 9.0
MINIMUM FC	= 1.0
AVERAGE MOUNTING H	= 4.3
MAXIMUM MOUNTING H	= 5.3
MINIMUM MOUNTING H	= 2.0
TOTAL NUMBER OF POINTS	= 46

PLANE & GRABE

POINT SPACING: X = 10 FT TO-RIGHT = 10 FT
 Y = 10 FT TO-LEFT = 10 FT
 LOWER LEFT HAND CORNER OF PLANE: X = 4001.29 Y = 4750.00 Z = 0
 UPPER RIGHT HAND CORNER OF PLANE: X = 5000.00 Y = 5597.00 Z = 0
 LIGHT METER IS NORMAL TO PLANE
 TOTAL NUMBER OF POINTS = 334

NELSON MEADOW - PHASE I

WEST SIDE OF CARPENTER STREET
 DOWNS GROVE, ILLINOIS

Product Order Guide

Example: 1540-11-218-120-CC-FD

Dimensions

Quality Lighting

NELSON MEADOW - PHASE I

WEST SIDE OF CARPENTER STREET
 DOWNS GROVE, ILLINOIS

DETAILS

SCALE: N.T.S. DATE: 09-30-10

DRAWN BY: CWW CHECKED BY: THM

JOB NUMBER: 04-020 SHEET: 5 OF 11

DATE: 07-11-11 PER: RELEASE REVIEW

Consulting Civil Engineer/Planner
 Land Planning & Surveying
 1090 State Street, 13th
 Northbrook, Illinois 60062
 Phone: 847-254-1894
 Fax: 847-254-9195

C.M. Lavoie & Associates, Inc.

REVISIONS PER VALUE REVIEW
 1. NO REVISIONS THIS SHEET