

LEGEND

- PARKING LOT LIGHT
- CANOPY LIGHT
- WALL LIGHT
- 1.00 CONTOUR LEVEL (fc)
- 0.50 CONTOUR LEVEL (fc)
- 0.20 CONTOUR LEVEL (fc)

Luminaire Schedule

Qty.	Label	Fixture	Catalog Number	Type	Color Temp	Voltage ²	CRI	Watts	Lumens	Mount	Ht. ¹	Finish
Parking Lot												
4	BV	Beacon Viper Area/Site	VP-ST-1-36L-55-3K7-4F-UNV-A-BLT-BC	4F	3000K	UNV ²	70	65	6968	Arm	15'	BLT
Wall Mount												
3	BT	Beacon Traverse	TRVD-24L-27-3K7-3-UNV-BLS	4	3000K	UNV ²	70	27	2850	Wall	10'	BLS
Canopy												
5	JS	Juno Stimform	JSF-5IN07LM-30K-90CRI-120FRPC-WH	5IN	3000K		120	90	10	727	Surface	8.5' WH

Notes:
¹Mounting height equates between the light source and the ground planes for using calculation photometric analysis, cut poles as needed
²Voltage to be verified by Electrical Engineer prior to ordering

Parking Lot Pole Schedule

Qty.	Ht.	Pole	Catalog Number
4	16'	Beacon - Round Straight Aluminum	RSA-B-S-16-40-B-CAP-1-B3-BLT

Essex Junction Zoning Requirements

Area	Max. Average Illuminance		Max. Uniformity Ratio		Max. / Min. Ratio
	Ave. (fc)	Max. (fc)	Ave./Min. (fc)	Max./Min. (fc)	
(Essex Junction) Parking Lot			0.20	10:1	

Lighting Calculations

Area	Ave. (fc)	Max. (fc)	Min. (fc)	Ave./Min. (fc)	Max./Min. (fc)
Parking Lot - Drive Surface	1.43	3.39	0.21	6.81	16.14
Walkway - Paved Surface	0.82	1.34	0.31	2.65	4.32
Canopy Walkway - Paved Surface	2.94	4.84	1.12	2.63	4.32

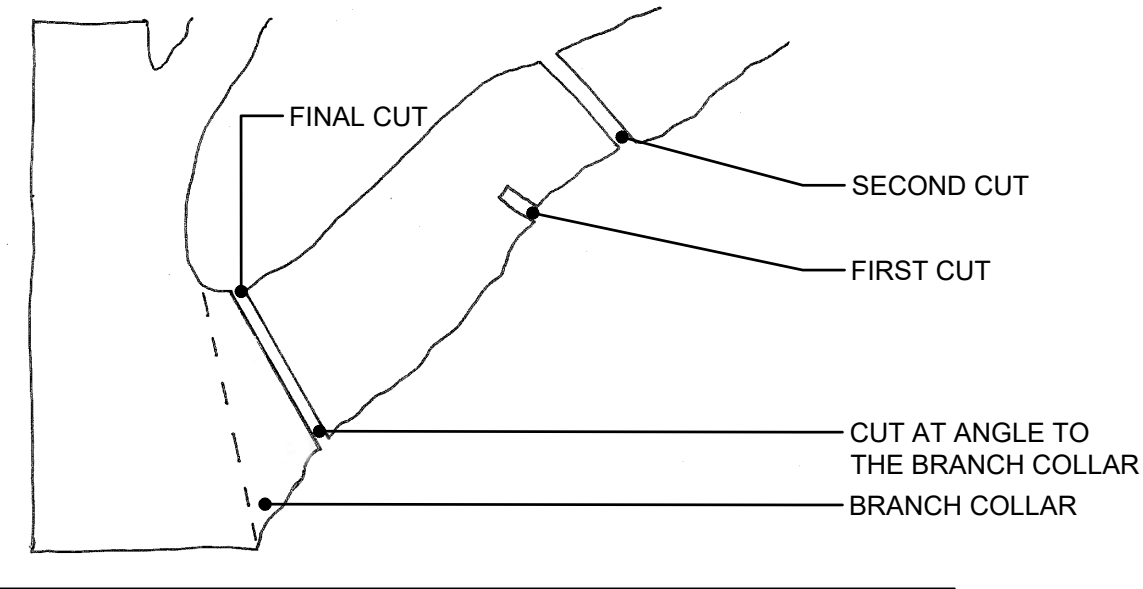
Footcotes:
¹Illuminance - All calculations are in Horizontal Footcandles (fc)
²Walkway Lighting - Light Levels For Pedestrian Areas meet Iesna Recommendations Per (Iesna) Lighting For Exterior Environments (RP-33-99), which recommends a Minimum Maintained Average Horizontal Illuminance Level Of 0.5 Footcandles and a 4:1 Horizontal Average to Minimum Ratio. Intermediate Area Classification (Iesna) - Light Levels are specific to this Classification, which is defined as "Those areas of a Municipality often characterized by moderately heavy nighttime pedestrian activity such as in block having Libraries, Community Recreation Centers, Large Apartment Buildings, Industrial Buildings, Or Neighborhood Retail Stores."
Notes:
 Light Loss Factor used for calculations:
 0.9 Dirt Depreciation (LDD)
 0.85 Lumen Depreciation (LLD)
0.765 Total Light Loss Factor (LLF)

GENERAL LIGHTING NOTES:

- EXISTING ILLUMINATION LEVELS OF NEARBY LIGHT SOURCES (EXISTING STREET FIXTURES) ARE NOT INCLUDED IN THE LIGHTING CALCULATIONS.
- SEE LIGHTING PLANS AND DETAILS WITH SPECIFICATIONS FOR LIGHT FIXTURES, POLES, ARMS AND OTHER INFORMATION.

TREE PRUNING NOTES:

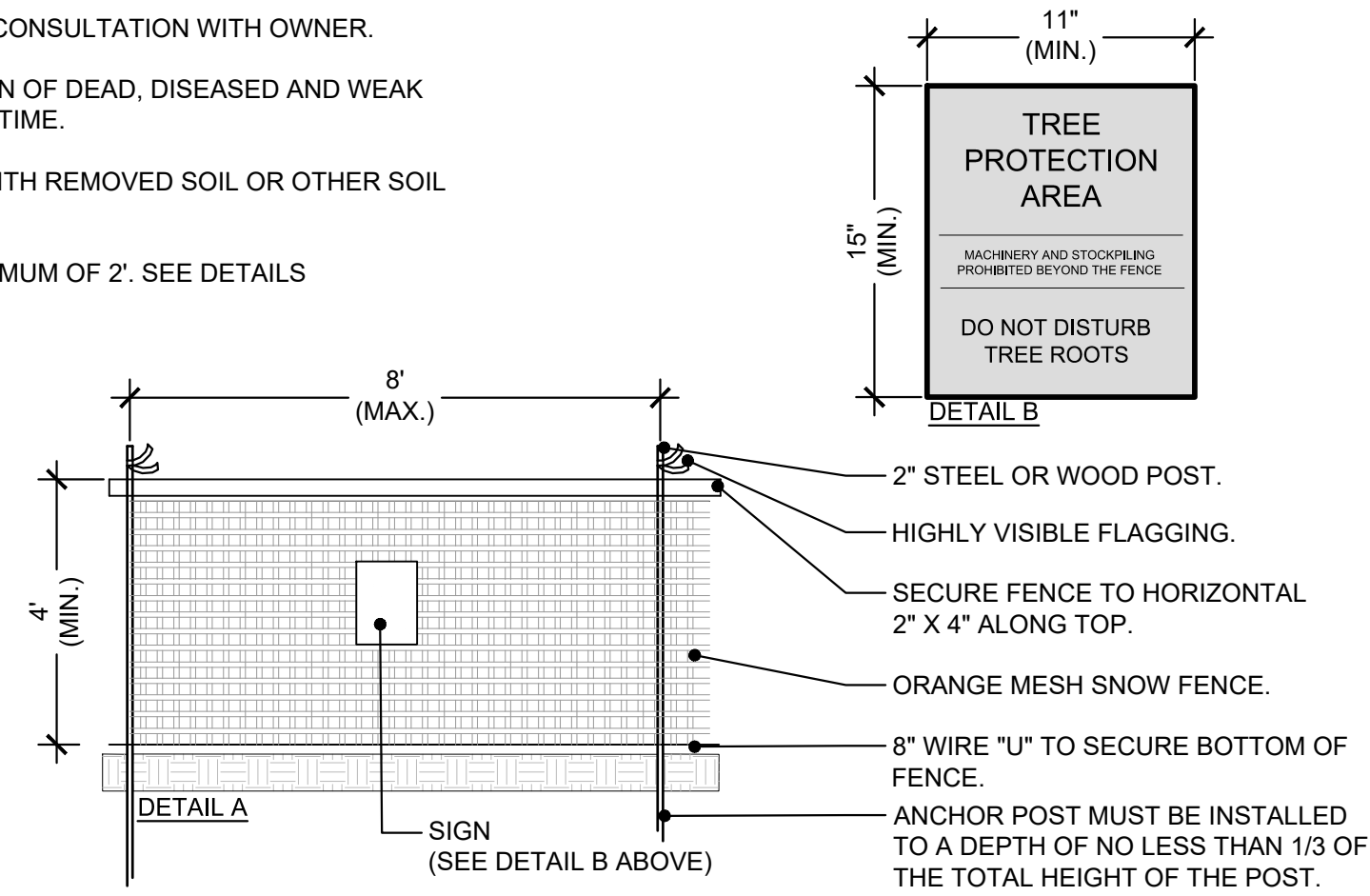
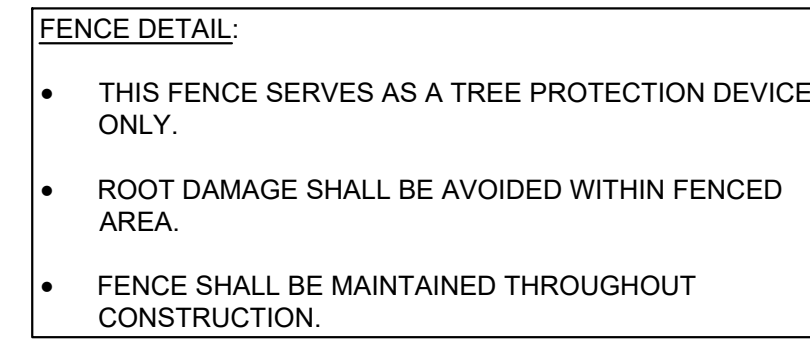
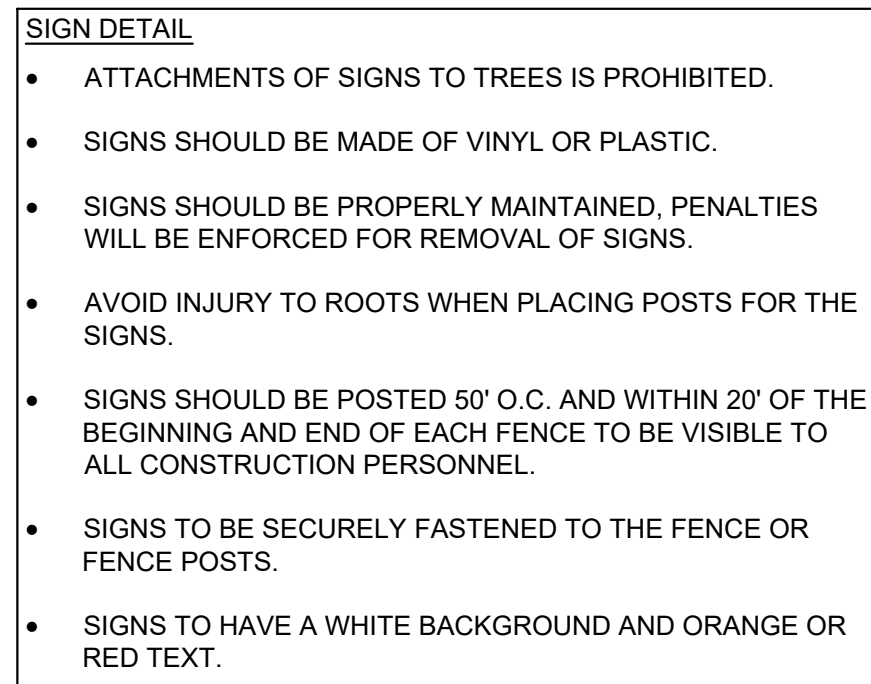
- REFER TO ANSI A300 (Part 1, MOST UPDATED VERSION) PRUNING SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- WORK SHOULD BE PERFORMED BY A **CERTIFIED ARBORIST** OR **PROFESSIONAL TREE COMPANY**.
- AVOID DAMAGING BARK AND OTHER LIVING TISSUE THROUGHOUT THE PRUNING PROCESS.
- MAKE SURE PRUNING TOOLS ARE SHARP.
- MAKE CLEAN CUT AS CLOSE TO THE BRANCH COLLAR AS POSSIBLE. DO NOT LEAVE A STUB.
- REDUCE THE SIZE OF THE BRANCH FOR A BETTER CUT.
- THE FIRST AND SECOND CUTS SHOULD BISECT THE ANGLE BETWEEN ITS BRANCH BARK RIDGE AND AN IMAGINARY LINE PERPENDICULAR TO THE BRANCH OR STEM.
- NOT MORE THAN 25% OF GROWTH SHOULD BE REMOVED FROM A CANOPY DURING A GROWING SEASON.



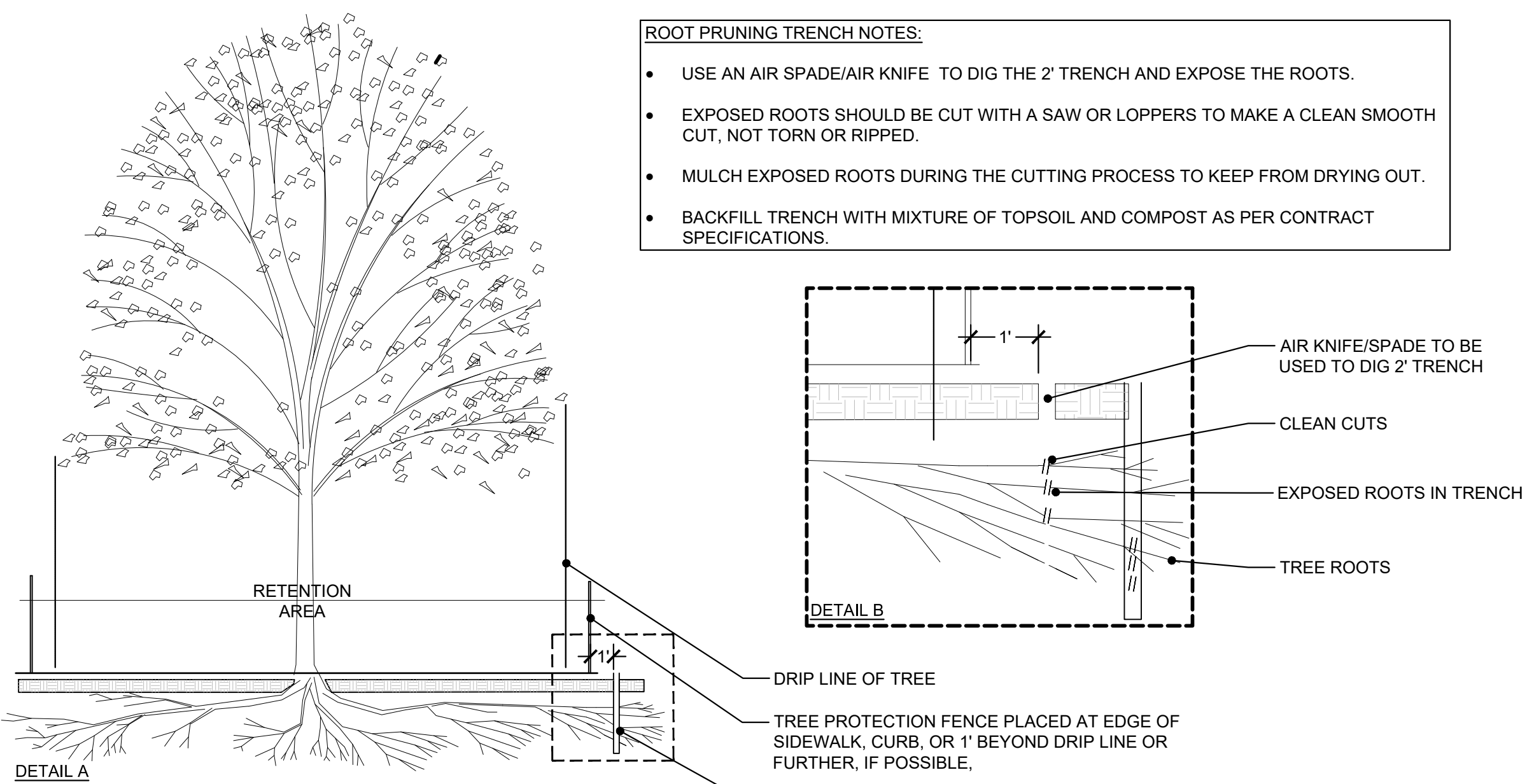
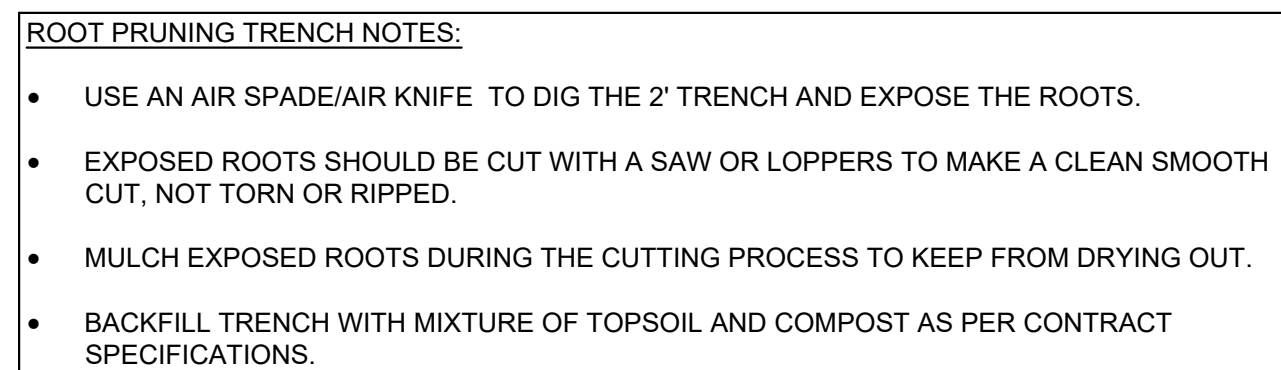
10 TREE PRUNING ILLUSTRATION
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TREE PROTECTION NOTES:

- PRIOR TO ANY CONSTRUCTION ACTIVITY, ALL TREE PRESERVATION MEASURES MUST BE IMPLEMENTED.
- CONTRACTOR CHOSEN FOR THIS WORK WILL BE AN EXPERIENCED TREE SERVICE FIRM THAT HAS SUCCESSFULLY COMPLETED TREE PROTECTION, ROOT PRUNING, AND TRIMMING WORK, SIMILAR TO THAT REQUIRED FOR THIS PROJECT.
- PRIOR TO CONSTRUCTION SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK. CONTACT DIG SAFE TWO FULL BUSINESS DAYS BEFORE PLANTING. (48 HOUR MIN.)
- PRIOR TO THE SITE VISIT ALL TREE PRESERVATION AREAS SHALL BE STAKED OUT ON SITE BY SURVEY.
- TREE PROTECTION FENCING SHALL REMAIN INTACT THROUGHOUT ALL CONSTRUCTION ACTIVITY.
- THERE WILL BE NO EXCAVATION FOR PROPOSED SITE WORK WITHIN FENCED AREA.
- NO MATERIALS OR EQUIPMENT SHALL BE STORED, STOCKPILED OR OPERATED WITHIN TREE PROTECTION AREAS.
- TREE PROTECTED AREAS WILL BE LEFT AS NATURAL AS POSSIBLE.
- IN AREAS OF EXCAVATION NEAR TREE, IDENTIFY AND CUT ROOTS IN CONSULTATION WITH OWNER.
- REMOVE POORLY ATTACHED AND RUBBING LIMBS. CLEAN THE CROWN OF DEAD, DISEASED AND WEAK LIMBS. THINNING OF HEALTHY LIMBS IS NOT RECOMMENDED AT THIS TIME.
- ANY NECESSARY TRENCHING SHALL BE IMMEDIATELY BACKFILLED WITH REMOVED SOIL OR OTHER SOIL MIX AS DESCRIBED IN CONTRACT SPECIFICATIONS.
- AN AIR SPADE/AIR KNIFE IS TO BE USED TO EXCAVATE DOWN TO MINIMUM OF 2'. SEE DETAILS



9 TREE PROTECTION FENCE
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8 TREE PROTECTION
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GENERAL PLANTING NOTES:

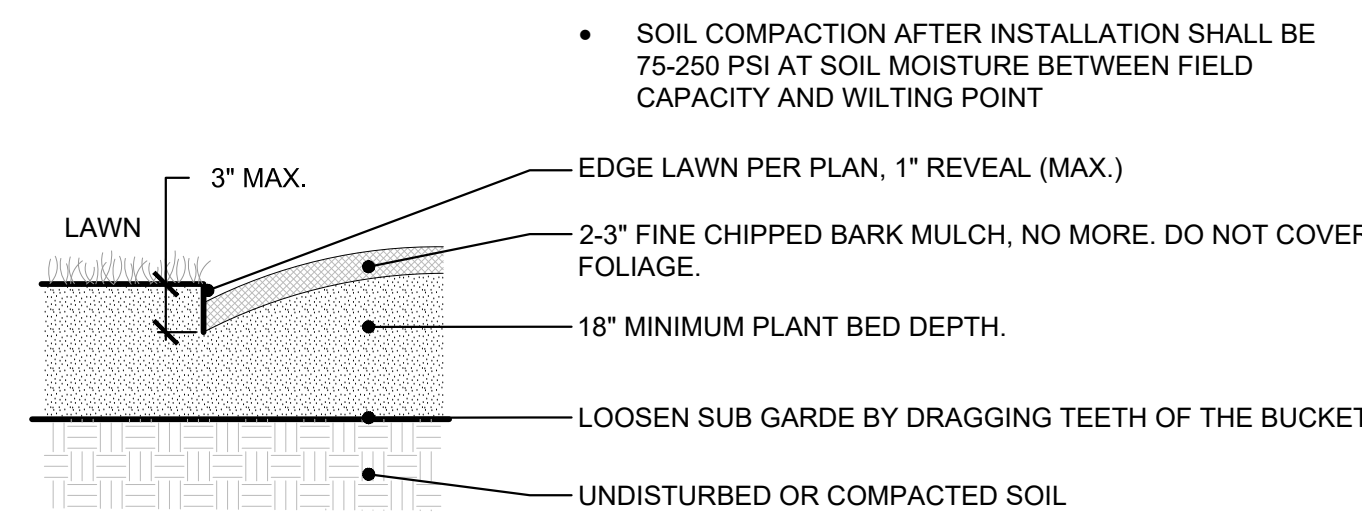
- THE LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK. CONTACT DIG SAFE TWO FULL BUSINESS DAYS BEFORE PLANTING. (48 HOUR MIN.)
- THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS. THE PLAN QUANTITIES SHALL ALWAYS SUPERCEDE THE PLANT LIST.
- ALL PLANT MATERIAL SHALL CONFORM AND BE INSTALLED TO THE GUIDELINES ESTABLISHED BY THE CURRENT ANSI Z60.1.
- NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE AMENDED PLANTING SOIL AS PER THE CONTRACT SPECIFICATIONS.
- SOIL DEPTH SHOULD BE AS LISTED BELOW. EXISTING SOIL ON SITE WHICH MEETS THE CONTRACT SPECIFICATIONS MAY BE USED. REMOVE SUB GRADE AND OTHER GRAVEL FILL IN PLANTING AREAS ON SITE.
 - GROUND COVER BEDS: 12" DEPTH.
 - LAWN AREAS: 6" DEPTH
 - SHRUB/PLANT BEDS: 18" DEPTH
- PLANTS SHALL BE INSTALLED SUCH THAT THE ROOT FLARE IS AT OR SLIGHTLY ABOVE FINAL GRADE (DUE TO NURSERY PRACTICES THIS MAY REQUIRE REMOVING SOIL FROM THE TOP OF THE ROOT BALL TO LOCATE THE ROOT FLARE).
- ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING.
- WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
- THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE FLAGGED FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
- LANDSCAPE ARCHITECT MAY REQUIRE ALL PLANTS BE SPRAYED WITH AN ANTIDESSICANT WITHIN 24 HOURS AFTER PLANTING. IN TEMPERATE ZONES, ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT AT THE BEGINNING OF THEIR FIRST WINTER.
- STAKING PLANTS IS AT THE DISCRETION OF THE LANDSCAPE CONTRACTOR. ONLY STAKE PLANTS IN THE MANNER SPECIFIED IN THE PLANTING DETAILS.
- ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY, IF NECESSARY, DURING THE FIRST GROWING SEASON.
- THE LANDSCAPE CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE LANDSCAPE CONTRACTOR SHALL REFER TO THE PLANT LIST FOR SEASONAL REQUIREMENTS RELATED TO THE TIME OF PLANTING.

PLANT SPACING CHART

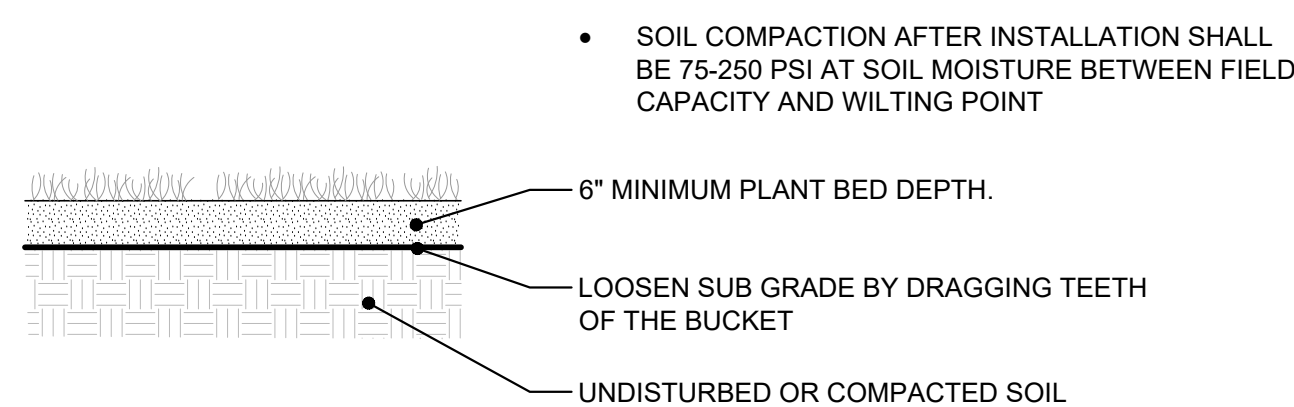
Spacing 'D'	Row 'A'	Number of Plants	Area Unit
6" O.C.	5.2'	4.61	1 SQ. FT.
8" O.C.	6.93"	2.6	
10" O.C.	8.66"	1.66	
12" O.C.	10.4"	1.15	
15" O.C.	13.0"	7.38	10 SQ. FT.
18" O.C.	15.6"	5.12	
24" O.C.	20.8"	2.91	
30" O.C.	26.0"	1.55	
36" O.C.	30.0"	1.25	100 SQ. FT.
4" O.C.	3.46'	7.25	
5" O.C.	4.38'	4.61	
6" O.C.	5.2'	3.2	
8" O.C.	6.93'	1.8	1000 SQ. FT.
10" O.C.	8.66'	1.16	
12" O.C.	10.4'	8	
15" O.C.	13.0'	5	
20" O.C.	17.3'	2.88	10,000 SQ. FT.
25" O.C.	21.65'	1.85	
30" O.C.	26.0'	1.29	
40" O.C.	34.6'	7.22	

O.C. = ON CENTER FOR USE WHEN PLANTS ARE SHOWN EQUIDISTANT FROM EACH OTHER (AS SHOWN) PLANT SPACING CHART

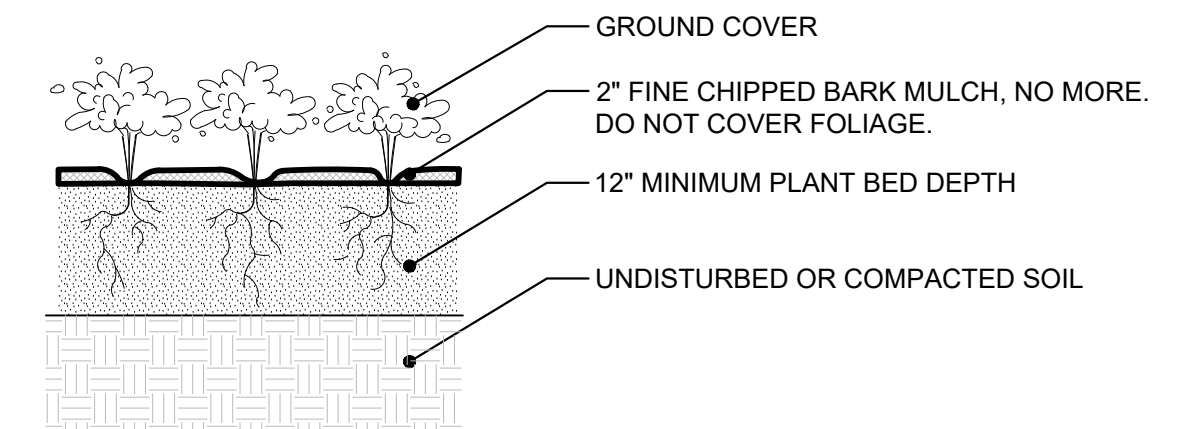
7 PLANT SPACING CHART DETAIL
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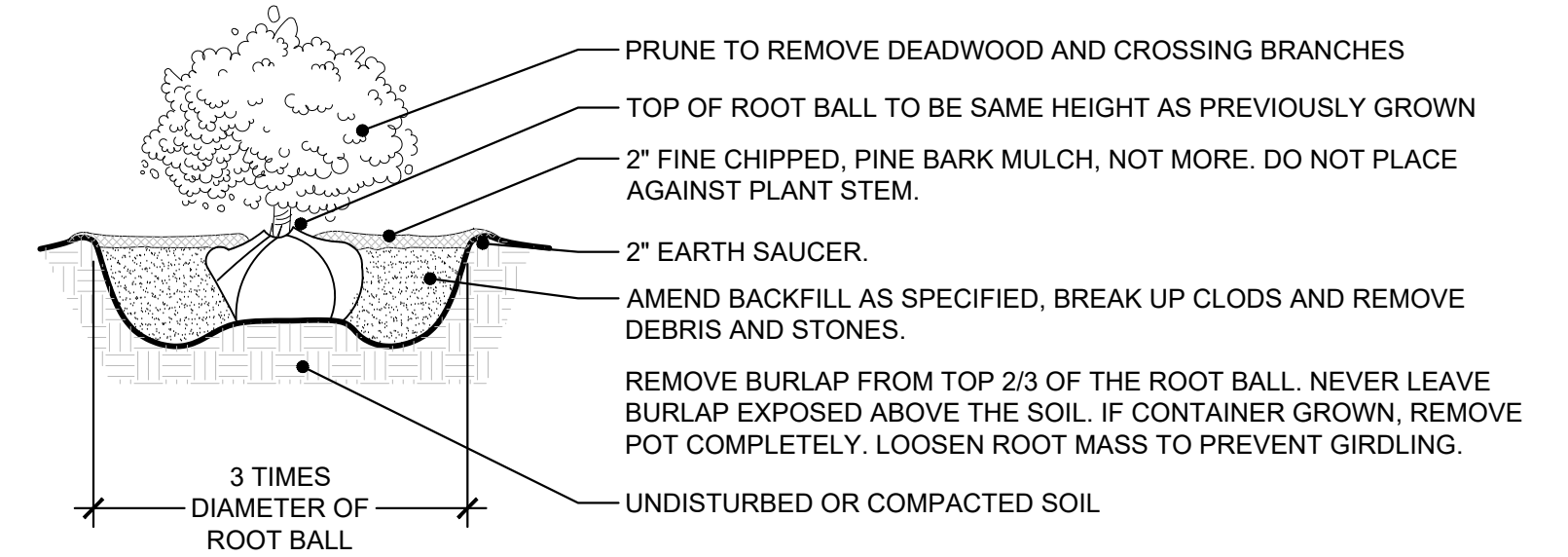
6 PLANT BED
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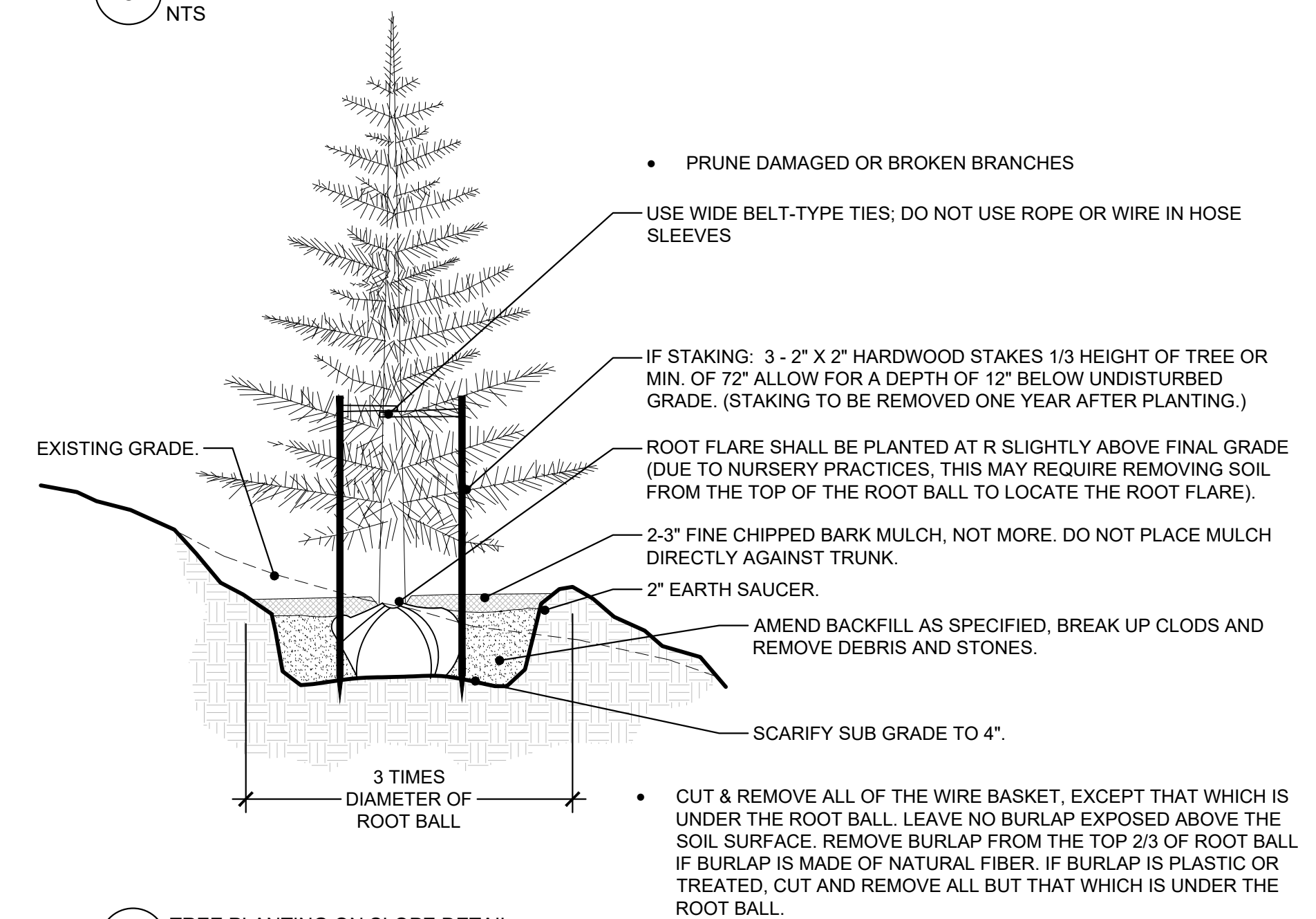
5 LAWN & SEEDING AREA
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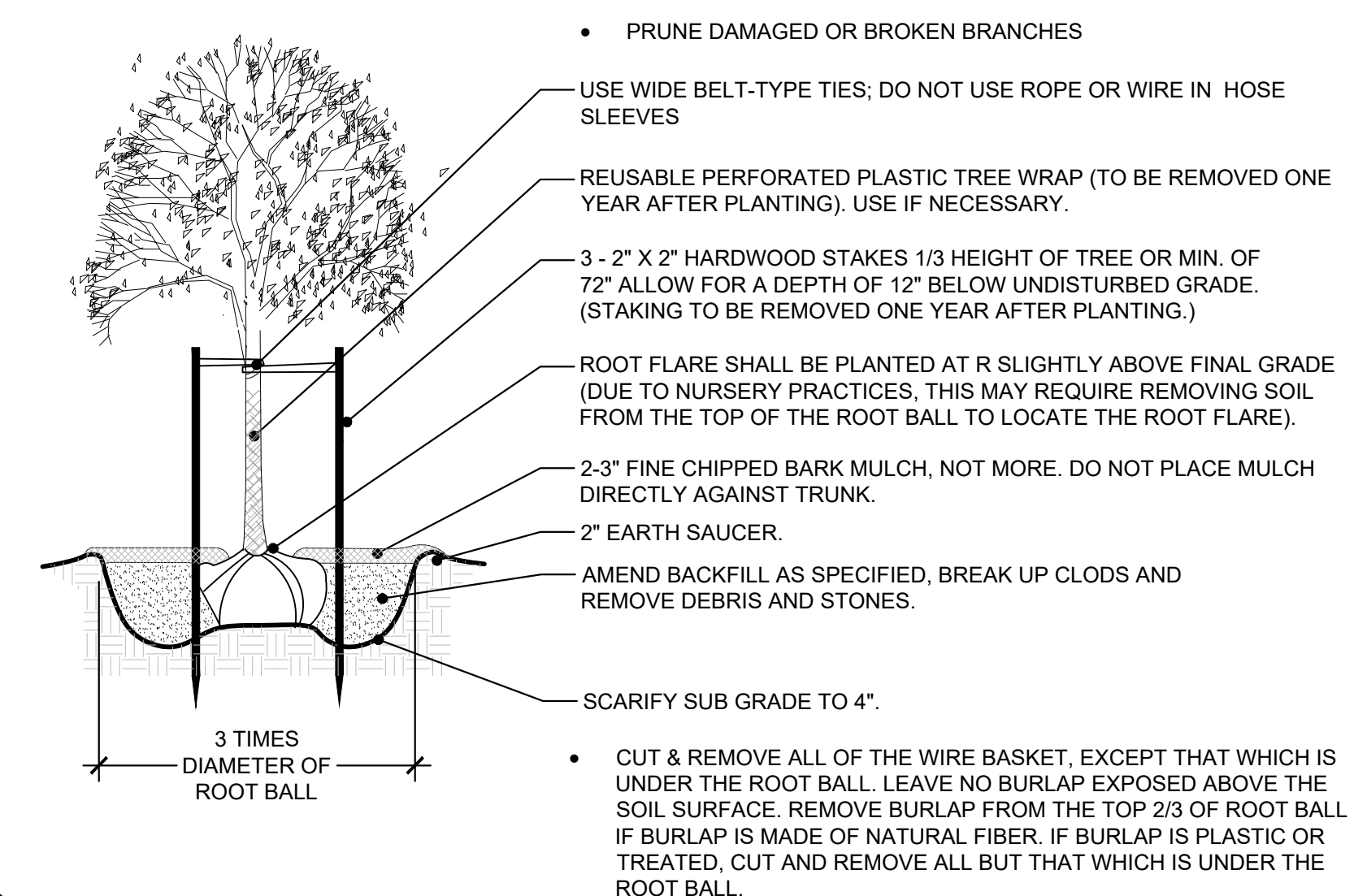
4 GROUNDCOVER PLANTING
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3 SHRUB PLANTING
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2 TREE PLANTING ON SLOPE DETAIL
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1 TREE PLANTING DETAIL
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