

PLAN  
ISSUED  
05/28/2024



**LEGEND**

- DECIDUOUS LARGE STREET TREE
- DECIDUOUS TREE
- DECIDUOUS ORNAMENTAL TREE
- DECIDUOUS SMALL TREE
- CONIFER TREES
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- ORNAMENTAL GRASS
- PERENNIAL, GROUNDCOVER, RAIN GARDEN MIX
- EXISTING TREE TO BE PRESERVED

**Planting Schedule**

Qty.	Code	Scientific Name	Common Name	Size	Spec	Notes
4	AAR	ACER rubrum 'Autumn Radiance'	Autumn Radiance Red Maple	2.5" cal	B&B	single stem
3	AA	ACER rubrum 'Armstrong'	Armstrong Maple	2" cal	B&B	single stem, columnar
10	AL	AMELANCHIER laevis	Allegheny Serviceberry	8" Ht.	B&B	multi-stem, 3-4 stems
3	AO	AMELANCHIER alnifolia 'Obelisk'	Standing Ovation Serviceberry	1.75" cal.	B&B	single stem, columnar
10	BNH	BETULA nigra 'Heritage'	Heritage River Birch	12" Ht.	B&B	multi-stem, 3-4 stems
7	BPJ	BETULA platyphylla 'Jefpark'	Parkland Pillar Japanese Birch	2"	B&B	Single stem
6	CO	CELTIS occidentalis 'Prairie Sentinel'	Columnar Common Hackberry	2"	B&B	Single stem
2	GTS	GLEDITSIA L. 'Skycole'	Skyline Honeylocust	2" cal.	B&B	single stem
2	MC	MALUS 'Coralburst'	Coralburst Crabapple	2" cal.	B&B	single stem
2	PG	PICEA glauca	White Spruce	7' Ht.	B&B	single stem

**Shrubs**

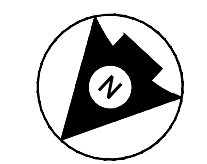
Qty.	Code	Scientific Name	Common Name	Size	Spec	Notes
7	CSB	CORNUS 'Bailey'	Bailey's Red Twig Dogwood	30"	B&B	Space 7' o.c.
39	CSAF	CORNUS sericea 'Arctic Fire'	Arctic Fire Dogwood	30"	#5 Cont.	Space 4' o.c.
58	DL	DIERILLA lonicera	Bush Honeysuckle	18"	#3 Cont.	Space 2.5' o.c.
10	HKA	HYPERICUM kalmianum 'Ames'	Ames Shrubby St. John's Wort	18"	#3 Cont.	Space 2.5' o.c.
2	SPN	SALIX purpurea 'Nana'	Nana Dwarf Arctic Willow	24"	#3 Cont.	Space 7' o.c.
2	SBL	SAMBUCUS nigra 'Black Lace'	Black Lace Elderberry	24"	3 Gal.	Space per plan
9	SMK	SYRINGA p. 'Miss Kim'	Miss Kim Korean Lilac	36"	B&B	Space 4' o.c.
18	TMD	TAXUS x m. 'Densiformis'	Dense Yew	30"	B&B	Space 4' o.c.

**Groundcovers & Perennials**

Qty.	Code	Scientific Name	Common Name	Size	Spec	Notes
26	PVHM	PANICUM virgatum 'Heavy Metal'	Heavy Metal Switchgrass	Clump	#2 Cont.	space 3' o.c.
139	MS	MATTEUCCIA struthiopteris	Ostrich Fern	Clump	#2 Cont.	space 2.5' o.c.

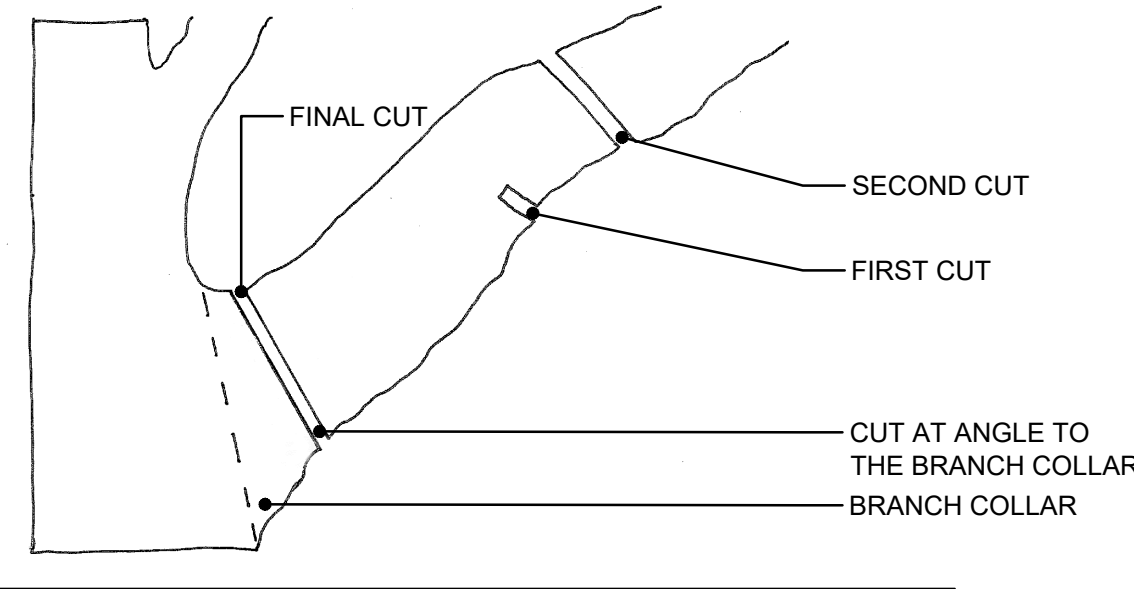
**Existing Trees to be Preserved**

Qty.	Code	Scientific Name	Common Name	Size	Spec	Notes
2	-	QUERCUS sp.	Oak	28" DBH	-	Protect in Place; credit based on 6" cal. At Ethannon Nursery
1	-	ACER sp.	Oak	60" DBH	-	Protect in Place; credit based on 6" cal. At Ethannon Nursery



**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.



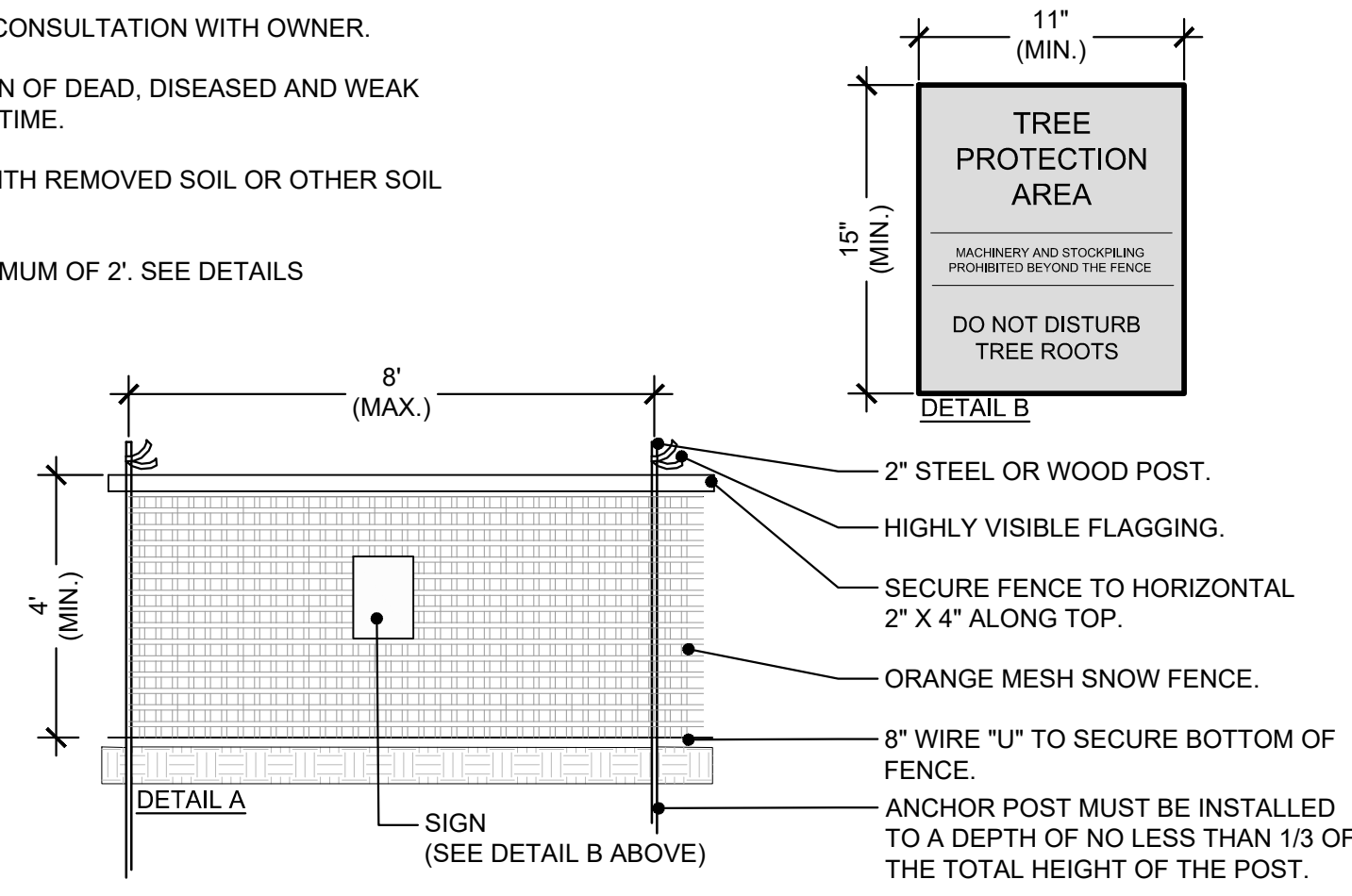
**10 TREE PRUNING ILLUSTRATION**  
NTS

**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.

- SIGN DETAIL**
- ATTACHMENTS OF SIGNS TO TREES IS PROHIBITED.
  - SIGNS SHOULD BE MADE OF VINYL OR PLASTIC.
  - SIGNS SHOULD BE PROPERLY MAINTAINED. PENALTIES WILL BE ENFORCED FOR REMOVAL OF SIGNS.
  - AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
  - SIGNS SHOULD BE POSTED 50' O.C. AND WITHIN 20' OF THE BEGINNING AND END OF EACH FENCE TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL.
  - SIGNS TO BE SECURELY FASTENED TO THE FENCE OR FENCE POSTS.
  - SIGNS TO HAVE A WHITE BACKGROUND AND ORANGE OR RED TEXT.

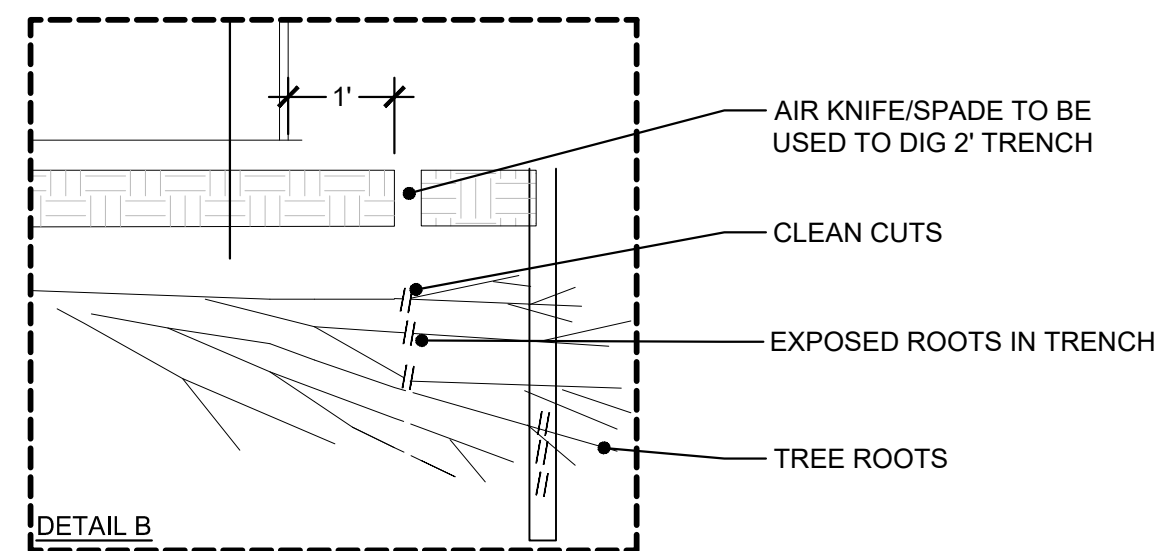
- FENCE DETAIL:**
- THIS FENCE SERVES AS A TREE PROTECTION DEVICE ONLY.
  - ROOT DAMAGE SHALL BE AVOIDED WITHIN FENCED AREA.
  - FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.



**9 TREE PROTECTION FENCE**  
NTS

**ROOT PRUNING TRENCH NOTES:**

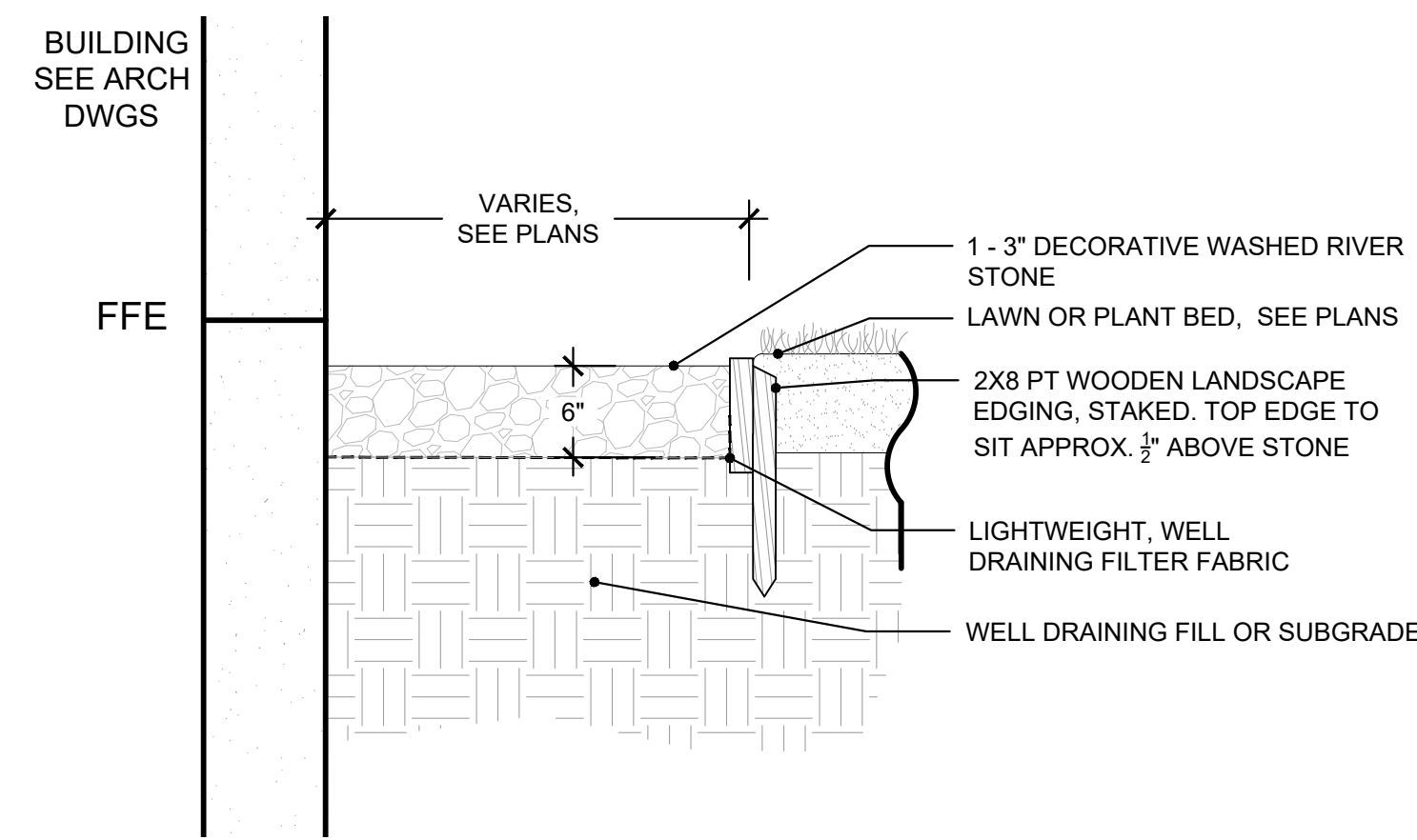
- USE AN AIR SPADE/AIR KNIFE TO DIG THE 2' TRENCH AND EXPOSE THE ROOTS.
- EXPOSED ROOTS SHOULD BE CUT WITH A SAW OR LOPPERS TO MAKE A CLEAN SMOOTH CUT, NOT TORN OR RIPPED.
- MULCH EXPOSED ROOTS DURING THE CUTTING PROCESS TO KEEP FROM DRYING OUT.
- BACKFILL TRENCH WITH MIXTURE OF TOPSOIL AND COMPOST AS PER CONTRACT SPECIFICATIONS.



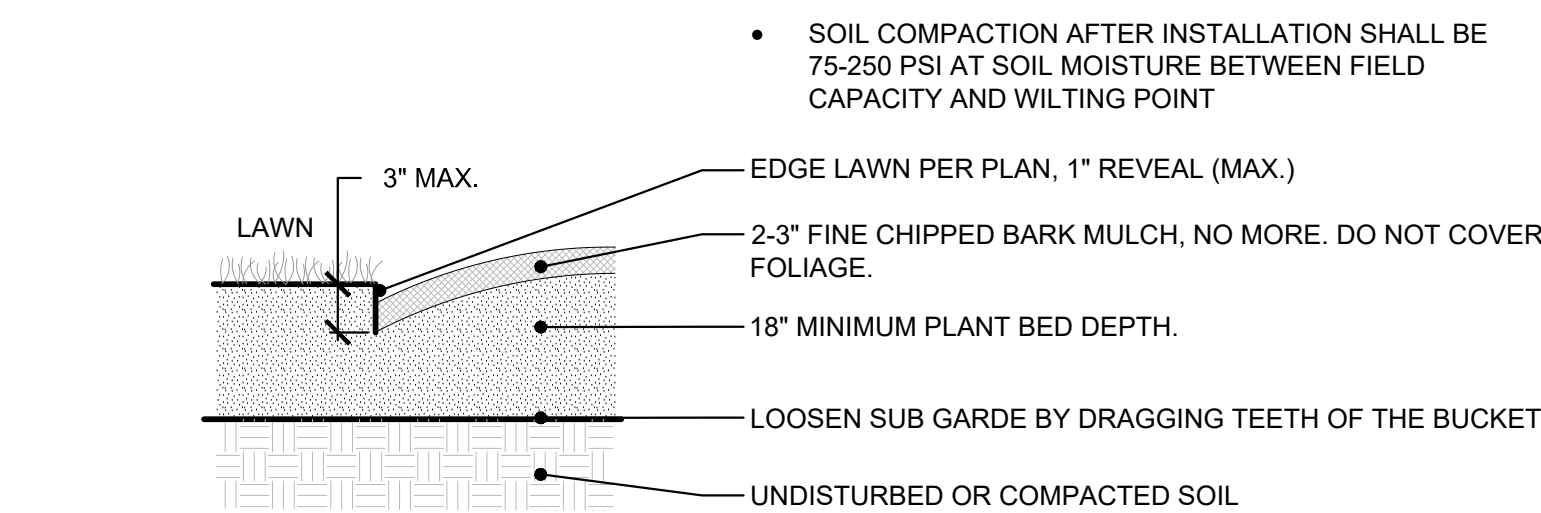
**8 TREE PROTECTION**  
NTS

**GENERAL PLANTING NOTES:**

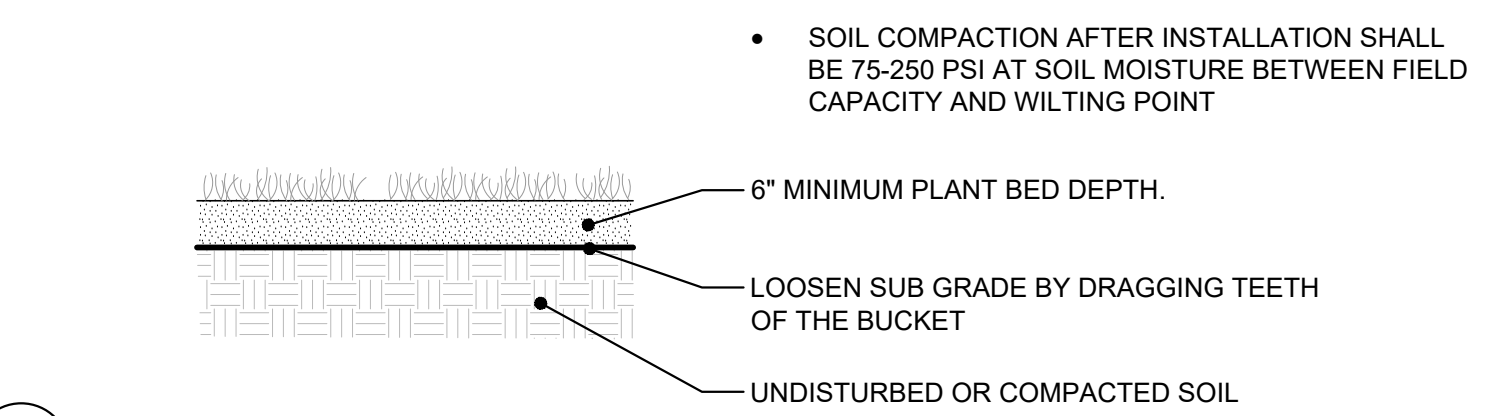
- THE LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK. CONTACT DIG SAFE TWO FULL BUSINESS DAYS BEFORE PLANTING. (48 HOUR MIN.)
- THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS. 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.
  - 6.1. GROUND COVER BEDS: 12" DEPTH.
  - 6.2. LAWN AREAS: 6" DEPTH
  - 6.3. 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.



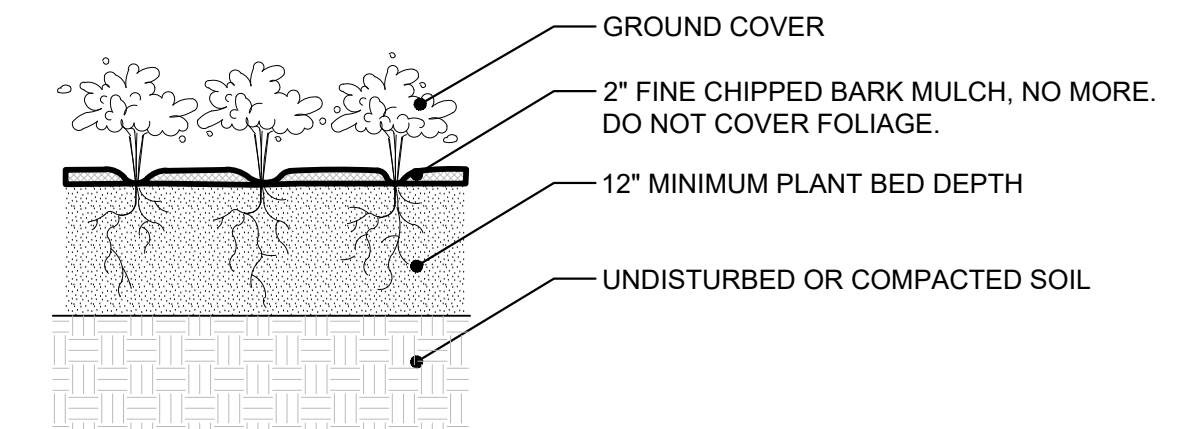
**7 WASHED RIVER STONE BED DETAIL**  
NTS



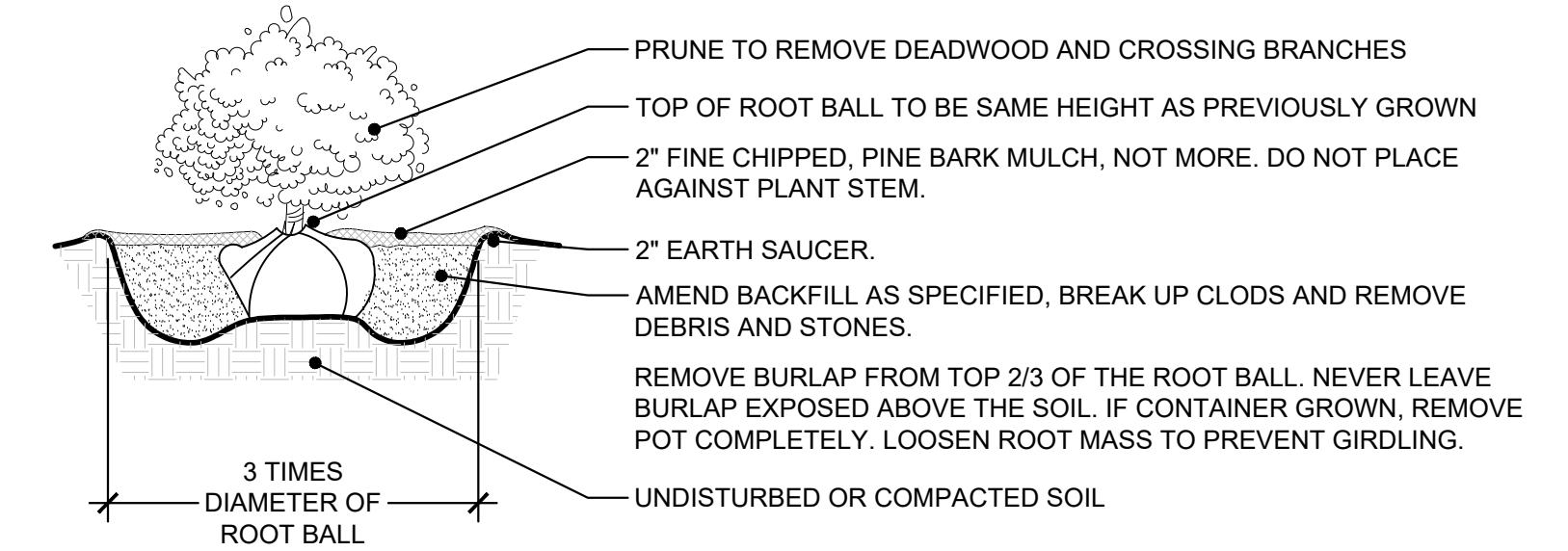
**6 PLANT BED**  
NTS



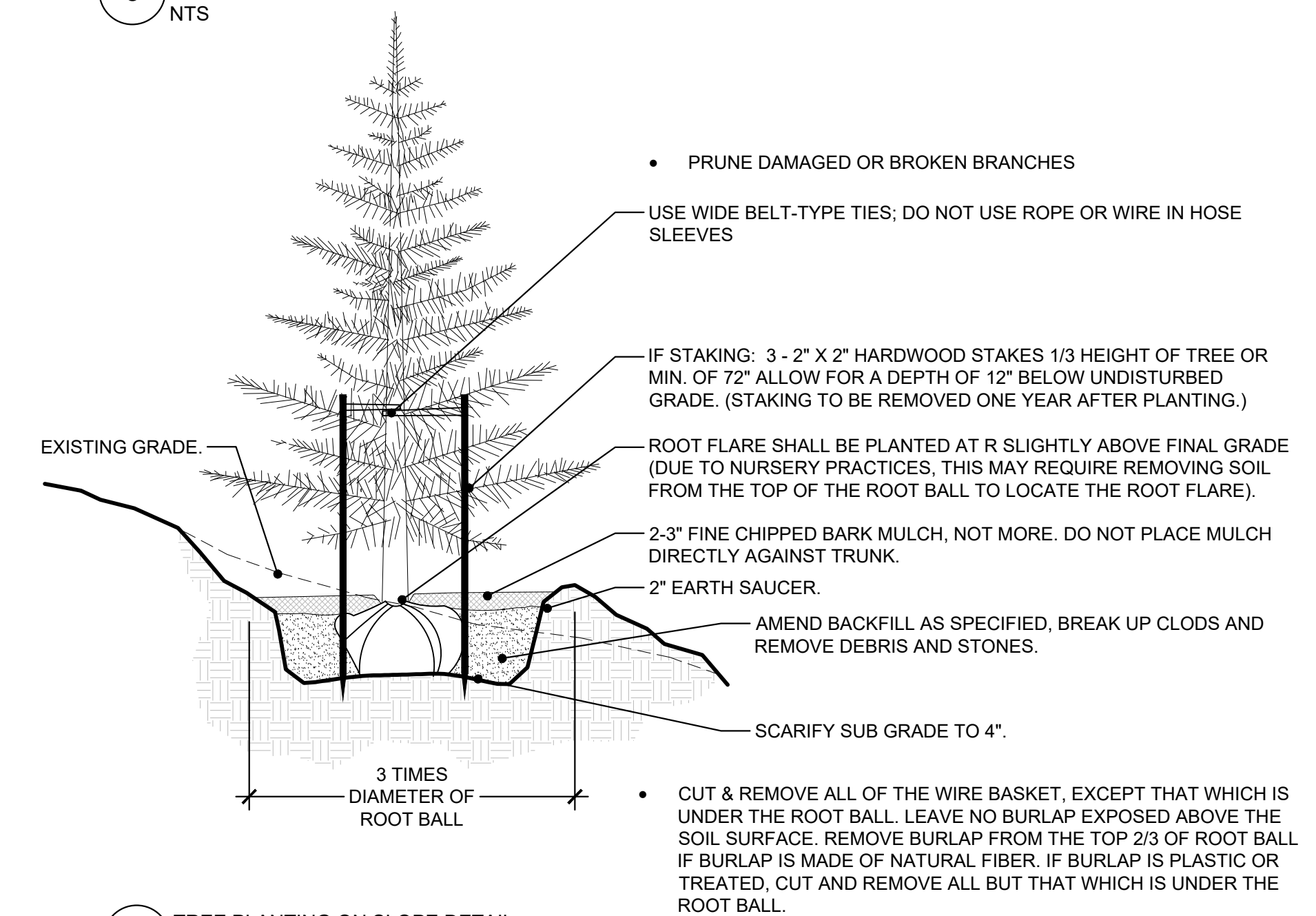
**5 LAWN & SEEDING AREA**  
NTS



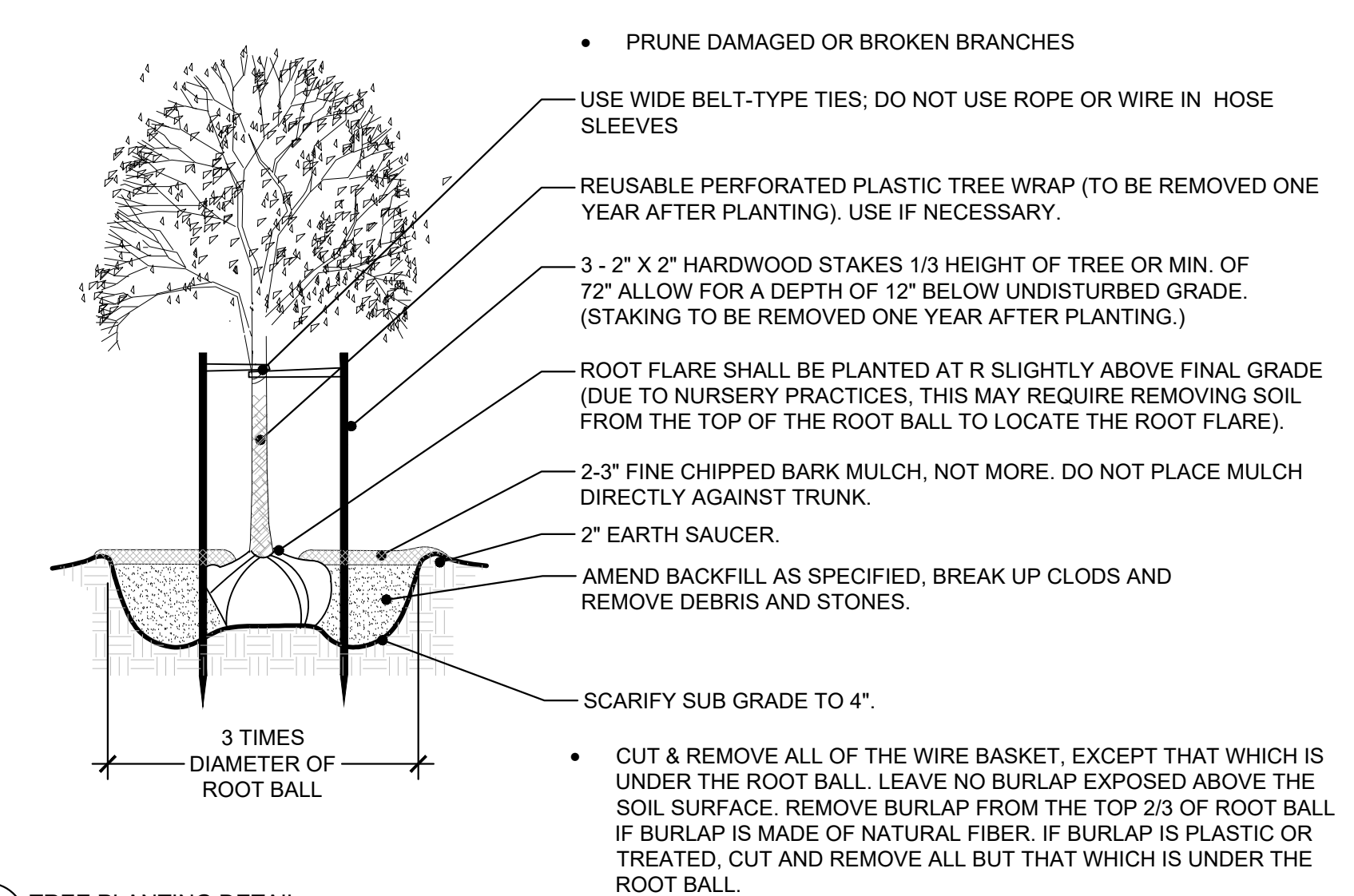
**4 GROUND COVER PLANTING**  
NTS



**3 SHRUB PLANTING**  
NTS



**2 TREE PLANTING ON SLOPE DETAIL**  
NTS



**1 TREE PLANTING DETAIL**  
NTS

**PRELIMINARY COSTS - Sunderland Apartment - 227 Pearl Street, City of Essex Junction, VT**

<u>Item</u>	<u>Amount</u>		<u>Unit Cost</u>		<u>Cost</u>
Building	36,700	s.f.	80	\$/s.f	\$2,936,000
Site Preparation	1	Unit	35,000	\$/unit	\$35,000
Roads and Parking	1	Unit	100,000	\$/unit	\$100,000
Utilities	1	Unit	20,000	\$/unit	\$20,000
			<b>SUB TOTAL</b>	=	<b>\$3,091,000</b>
Landscaping	3% of total construction costs for projects up to \$250,000, and 2% for projects above that.				\$64,320 <b>CALC</b>
			<b>Landscaping Proposed:</b>		<b>\$64,600</b>
			<b>TOTAL COST</b>	=	<b>\$3,155,600</b>



## SUNDERLAND APARTMENTS

Prepared by T.J. Boyle Associates, LLC | May 2024

Planting Cost Opinion								
Trees								
Qty.	Code	Scientific Name	Common Name	Size	Spec	Notes	Unit Price	Installed
4	AAR	ACER rubrum 'Autumn Radiance'	Autumn Radiance Red Maple	2.5" cal	B&B	single stem	\$ 217	\$ 2,604.00
3	AA	ACER rubrum 'Armstrong'	Armstrong Maple	2" cal	B&B	single stem, columnar	\$ 169	\$ 1,521.00
10	AL	AMELANCHIER laevis	Alleghany Serviceberry	8' Ht.	B&B	multi-stem, 3-4 stems	\$ 189	\$ 5,670.00
3	AO	AMELANCHIER alnifolia 'Obelisk'	Standing Ovation Serviceberry	1.75" cal.	B&B	single stem, columnar	\$ 163	\$ 1,467.00
10	BNH	BETULA nigra 'Heritage'	Heritage River Birch	12' Ht.	B&B	multi-stem, 3-4 stems	\$ 203	\$ 6,090.00
7	BPJ	BETULA platyphylla 'Jefpark'	Parkland Pillar Japanese Birch	2"	B&B	Single stem	\$ 266	\$ 5,586.00
6	CO	CELTIS occidentalis 'Prairie Sentinel'	Columnar Common Hackberry	2"	B&B	Single stem	\$ 198	\$ 3,564.00
2	GTS	GLEDITSIA t. i. 'Skycole'	Skyline Honeylocust	2" cal.	B&B	single stem	\$ 190	\$ 1,140.00
2	MC	MALUS 'Coralburst'	Coralburst Crabapple	2" cal.	B&B	single stem	\$ 200	\$ 1,200.00
2	PG	PICEA glauca	White Spruce	7' Ht.	B&B	single stem	\$ 130	\$ 780.00
							Sub-Total	\$ 29,622.00
Shrubs								
Qty.	Code	Scientific Name	Common Name	Size	Spec	Notes	Unit Price	Installed
7	CSB	CORNUS 'Bailey'	Bailey's Red Twig Dogwood	30"	B&B	Space 7' o.c.	\$ 25	\$ 525.00
39	CSAF	CORNUS sericea 'Arctic Fire'	Arctic Fire Dogwood	30"	#5 Cont.	Space 4' o.c.	\$ 36	\$ 4,153.50
58	DL	DIERVILLA lonicera	Bush Honeysuckle	18"	#3 Cont.	Space 4' o.c.	\$ 25	\$ 4,350.00
10	HKA	HYPERICUM kalmianum 'Ames'	Ames Shrubby St. John's Wort	18"	#3 Cont.	Space 2.5' o.c.	\$ 25	\$ 750.00
2	SPN	SALIX purpurea 'Nana'	Nana Dwarf Arctic Willow	24"	#3 Cont.	Space 7' o.c.	\$ 25	\$ 150.00
2	SBL	SAMBUCUS nigra 'Black Lace'	Black Lace Elderberry	24"	3 Gal.	Space per plan	\$ 50	\$ 300.00
9	SMK	SYRINGA p. 'Miss Kim'	Miss Kim Korean Lilac	36"	B&B	Space 4' o.c.	\$ 40	\$ 1,080.00
18	TMD	TAXUS x m. 'Densiformis'	Dense Yew	30"	B&B	Space 4' o.c.	\$ 55	\$ 2,970.00
							Sub-Total	\$ 14,278.50
Groundcovers & Perennials								
Qty.	Code	Scientific Name	Common Name	Size	Spec	Notes	Unit Price	Installed
26	PVHM	PANICUM virgatum 'Heavy Metal'	Heavy Metal Switchgrass	Clump	#2 Cont.	space 3' o.c.	\$ 10	\$ 780.00
139	MS	MATTEUCCIA struthiopteris	Ostrich Fern	Clump	#2 Cont.	space 2.5' o.c.	\$ 10	\$ 4,170.00
							Sub-Total	\$ 4,950.00
Existing Trees to be Preserved								
Qty.	Code	Scientific Name	Common Name	Size	Spec	Notes	Unit Price	Installed/credit
2	-	QUERCUS sp.	Oak	28" DBH	-	Protect in Place; credit based on 6" cal. At Elhannon Nursery	\$ 1,750	\$ 10,500.00
1	-	ACER sp.	Oak	60" DBH	-	Protect in Place; credit based on 6" cal. At Elhannon Nursery	\$ 1,750	\$ 5,250.00
							Sub-Total	\$ 15,750.00
							<b>Total</b>	<b>\$ 64,600.50</b>