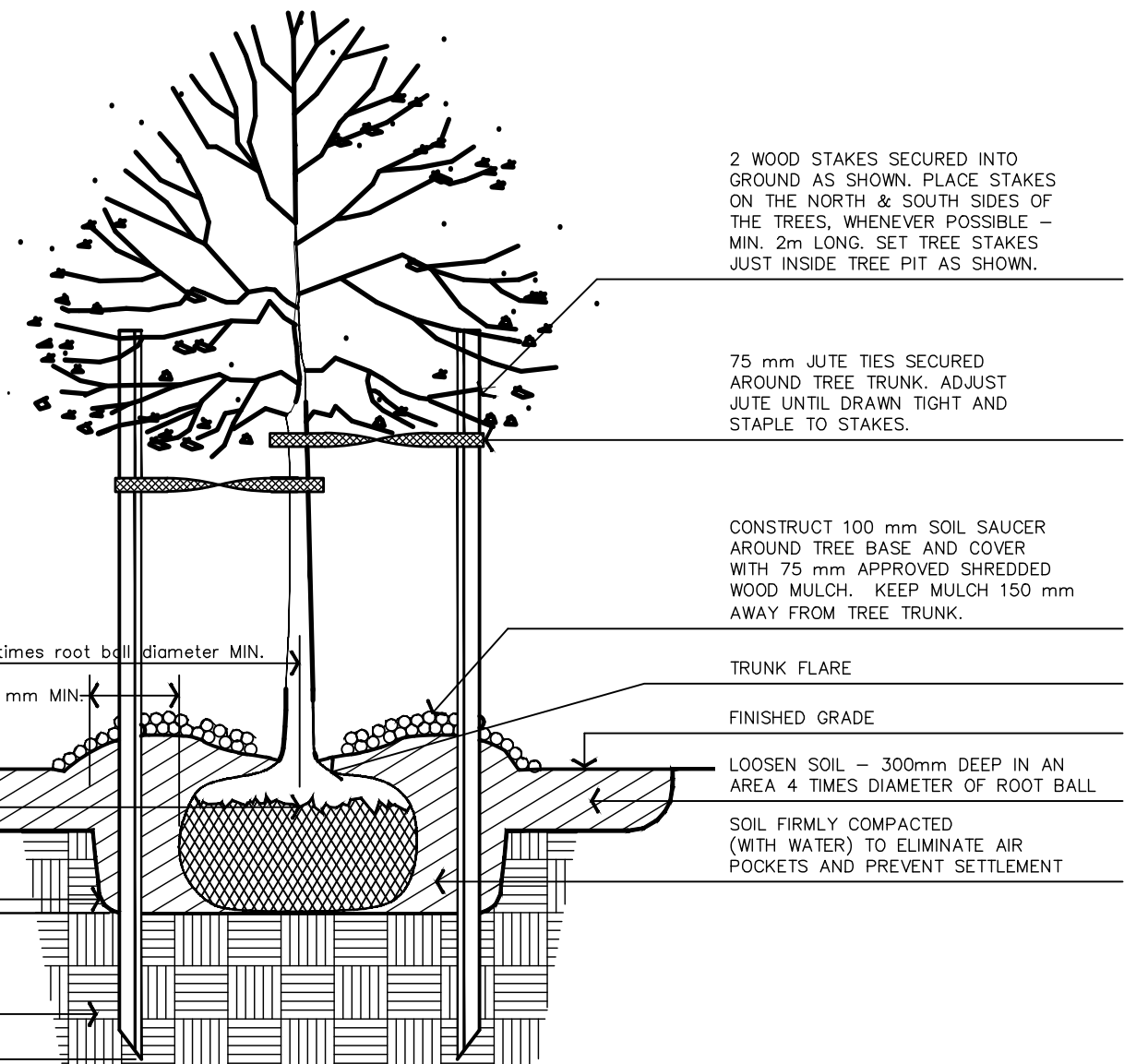
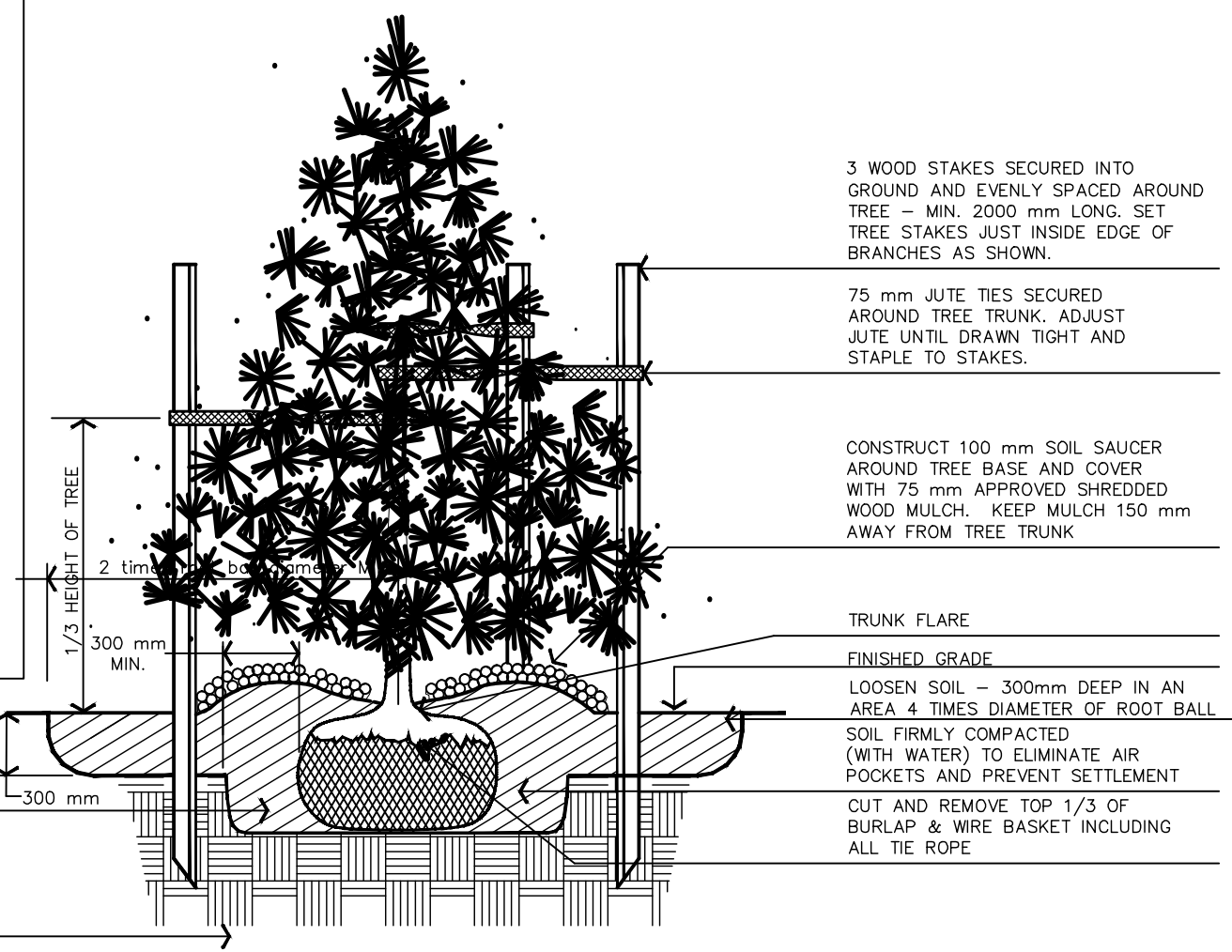


- NOTES:**
- Pruning shall be limited to dead or broken branches after planting. Maintain original shape of tree, do not prune or damage leader branch.
  - Confirm underground utilities before installing wooden stakes.
  - Wooden stakes MUST be installed at the same time as the tree.
  - If necessary, remove soil from root ball to uncover trunk flare. The trunk flare is where the roots spread at the base of the tree.
  - In loamy or sandy soils, the root ball should be set so that the trunk flare is exactly at grade.
  - In clay or poorly drained soils, set tree 50 mm higher than adjacent finished grade to allow for settlement.
  - Caliper measured at 300 mm from grade level.
  - Back fill tree pit with native soil - amend if required.
  - All dimensions in millimetres minimum & maximum. Allowances are given.

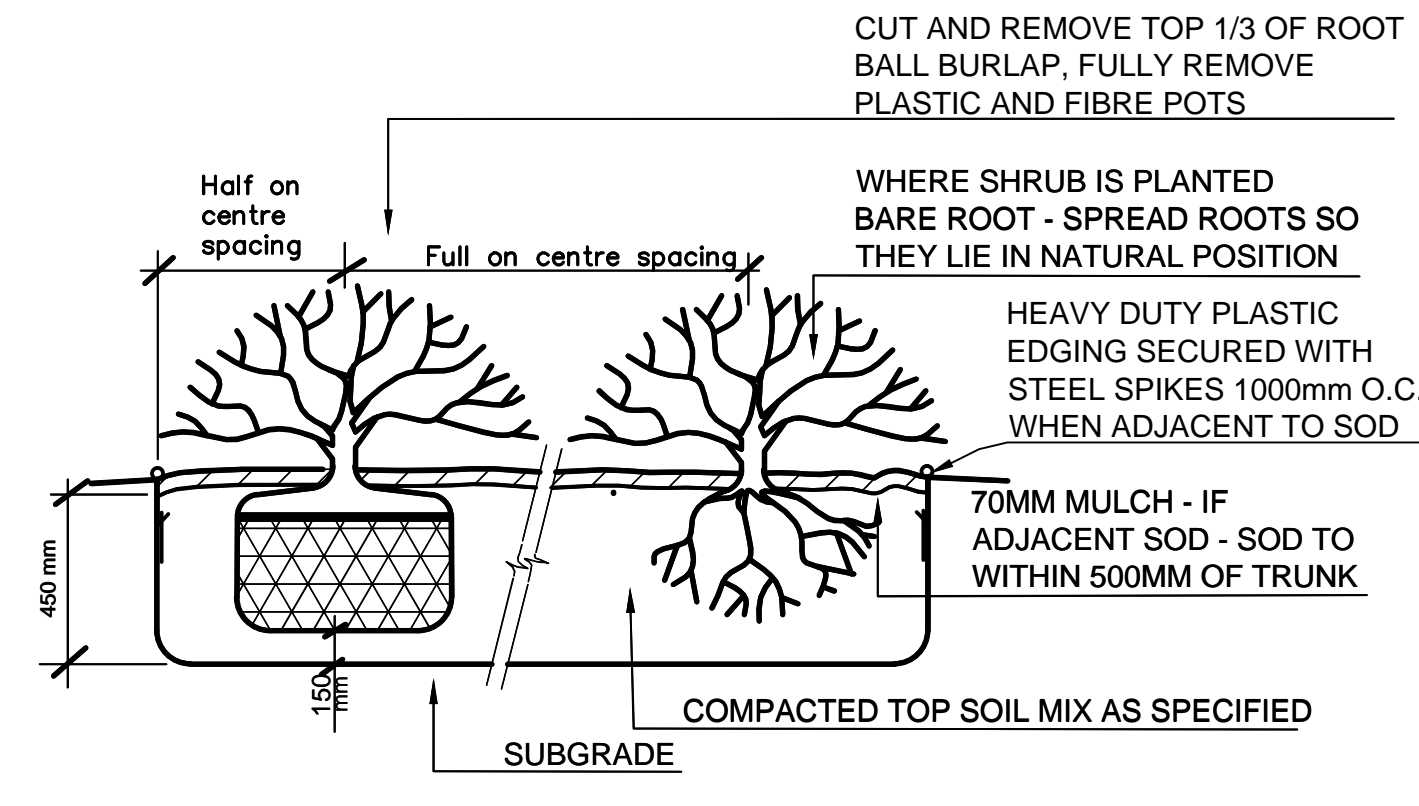


**D10 TYPICAL DECIDUOUS TREE PLANTING**  
Not to Scale, this tree does not represent any particular species

- NOTES:**
- Tree shall be measured to height of previous years growth.
  - Pruning shall be limited to dead or broken branches after planting. Maintain original shape of tree, do not prune or damage leader branch.
  - If necessary, remove soil from root ball to uncover trunk flare.
  - In loam or sandy soils, the root ball should be set so that the trunk flare is exactly at grade. The trunk flare is where the roots spread at the base of the tree.
  - In clay or poorly drained soils, set tree 50 mm higher than adjacent finished grade to allow for settlement.
  - Back fill tree pit with native soil - amend if required.
  - All dimensions in millimetres minimum & maximum. Allowances are given.
  - Confirm underground utilities before installing wooden stakes.
  - Wooden stakes must be installed at the same time as the tree.



**D11 TYPICAL CONIFEROUS TREE PLANTING**  
Not to Scale, this tree does not represent any particular species



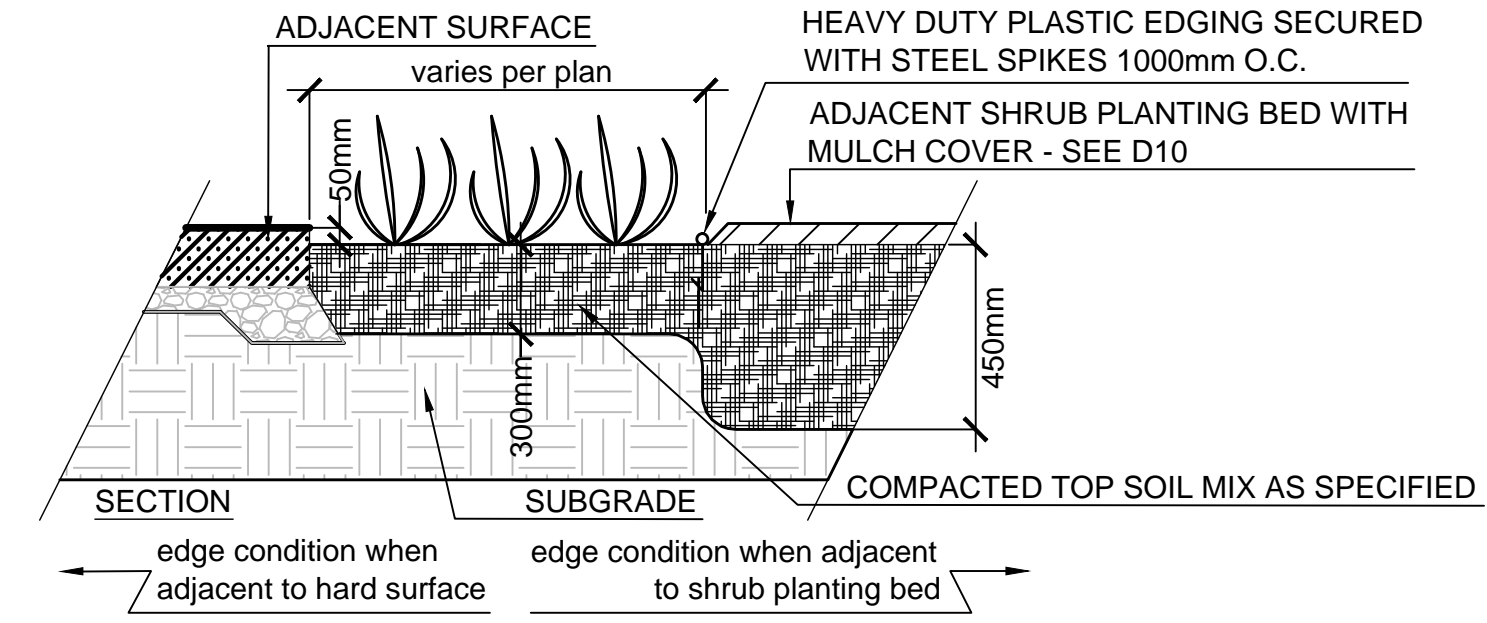
MULCH - "SHREDDED RED CEDAR" OR APPROVED EQUAL

SHRUBS SHALL BARE THE SAME RELATION TO FINISHED GRADE AS THEY BARE TO PREVIOUS EXISTING GRADE

ALL SHRUBS IN BEDS. NO INDIVIDUAL PITS EXCEPT WHERE INDICATED. REPLACE EXISTING SOIL TO REQUIRED DEPTH WITH NEW TOPSOIL AS SPECIFIED. IN AREAS OF EXISTING PLANTS TO BE RETAINED ENSURE EXISTING SOIL IS RETAINED SO AS NOT TO DISTURB EXISTING ROOT SYSTEMS.

THIS SHRUB DOES NOT REPRESENT ANY PARTICULAR SPECIES

**D12 TYPICAL SHRUB PLANTING**  
Not to Scale



**Note:**

- Replace existing soil to required depth with new topsoil as specified for all annual planting beds.
- Annual Planting species plan as shown on L-6 series of drawings

**D13 TYPICAL ANNUAL PLANTING BED**  
Not to Scale

**Tree Protection Standards**

- The contractor will be responsible for implementing the following specifications to ensure protection of existing trees within the construction zone.
- A tree protection zone will be established around each tree involved within and immediately adjacent to proposed construction areas. The tree protection zone will extend to at least the "drip-line" of the tree or a minimum of 3000mm radius from the stem of the tree.
- Trees involved within and immediately adjacent to proposed construction areas shall require strapping or a double wrap of wood slat snow fencing, or other suitable wood planks strapped to the tree trunk to completely protect the tree trunk from impact damage. The minimum size of strapping will be 25x150x2440mm.
- For designated areas, a snow fence or other barrier shall be erected and maintained around the tree protection zone.
- No equipment or materials shall be allowed to hit, abrade or otherwise damage the trunk or branches of a tree.
- No heavy equipment shall be driven over the tree protection zone.
- No soil or construction materials shall be piled over the tree protection zone or around the trunks.
- No disposal of any liquid such as concrete slurry, gas or oil shall occur within the tree protection zone.
- No trenching shall occur within the tree protection zone, however where excavation and backfill must occur, approval must be received from the Consultant. Low-impact methods such as the hydrovac system and trenchless methods such as directional drilling under existing trees will be the recommended method of underground installations. Open trenches at the base of trees are not acceptable. Destroying roots in this zone will make the tree structurally unsound and subject to toppling.
- In event of major reconstruction efforts, the Contractor shall root prune along the length of the work in an approved manner, such as with a chain saw or root pruner. A clean severance of the root system is required. The depth of the cut shall be the same depth as the excavation at the maximum distance from the tree trunk allowed by the construction.
- Backfilling within the tree protection zone to a depth of 300mm of the finished grade shall be with a 1:1:1 soil mix of top soil, sand and peatmoss to allow for proper root regeneration.
- During the course of construction, the Contractor is to inform the Consultant of any significant damage to a tree. All remedial action must be performed by a qualified tree service firm, subject to approval by Consultant.
- If a tree is damaged beyond repair, the Contractor will be responsible for a replacement tree of similar species to the largest transferable caliper.
- No additional compensation will be paid for the protection of trees in the work zone.

**PROJECT # 2 - Barton Street Entrance Area - PLANT LIST**

QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
4	<i>Acer glabrum</i> (Tree Form)	Amur Maple Tree Form	50mm	W.B.	dense, full specimen
4	<i>Yucca cordata</i> 'Greenaspire'	Greenaspire Yucca Leaf Linden	50mm	W.B.	dense, full specimen
10	<i>Physocarpus opulifolius</i> 'Diablo'	Diablo Ninebark	40 cm	2 gal.	1200 mm o.c.
10	<i>Spirea japonica</i> 'Goldflame'	Goldflame Spirea	30 cm	2 gal.	750 mm o.c.

**PROJECT # 3 - Healthy Living Area - PLANT LIST**

QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
8	<i>Prunella sp.</i>	White Spirea	180mm	W.B.	dense, full specimen
2	<i>Malus floribunda</i>	Holland Apple	25mm	unbudded	dense, full specimen
2	<i>Malus 'Purshiana'</i>	Purshiana Apple	25mm	unbudded	dense, full specimen
1	<i>Malus 'Red Spire'</i>	Red Spire Apple	25mm	unbudded	dense, full specimen
4	<i>Ribes 'Blackberry'</i>	Blackberry	50cm	2 gal.	1000 mm o.c.
4	<i>Ribes 'Red Robin'</i>	Red Robin Currant	50cm	2 gal.	1000 mm o.c.
2	<i>Prunella 'Prunella'</i>	Prunella	40 cm	2 gal.	1000 mm o.c.
20	<i>Spirea 'Japanese'</i>	Japanese Spirea	30 cm	2 gal.	750 mm o.c.

**PROJECT # 4 - William Street Area - PLANT LIST**

QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
2	<i>Amelanchier alnifolia</i>	Shadbush	35mm	W.B.	dense, full specimen
4	<i>Spirea japonica</i>	Japanese Spirea	30mm	W.B.	dense, full specimen
3	<i>Physocarpus opulifolius</i> 'Diablo'	Diablo Ninebark	30cm	2 gal.	1200 mm o.c.
3	<i>Spirea japonica</i>	Japanese Spirea	30cm	2 gal.	1200 mm o.c.
11	<i>Physocarpus opulifolius</i>	Diablo Ninebark	30cm	2 gal.	1200 mm o.c.
4	<i>Physocarpus opulifolius</i>	Diablo Ninebark	40 cm	2 gal.	1000 mm o.c.
10	<i>Physocarpus opulifolius</i> 'Diablo'	Diablo Ninebark	40 cm	2 gal.	1000 mm o.c.
8	<i>Physocarpus opulifolius</i> 'Diablo'	Diablo Ninebark	40 cm	2 gal.	1000 mm o.c.
8	<i>Physocarpus opulifolius</i> 'Diablo'	Diablo Ninebark	40 cm	2 gal.	1000 mm o.c.
14	<i>Physocarpus opulifolius</i>	Diablo Ninebark	30 cm	2 gal.	750 mm o.c.
3	<i>Spirea japonica</i>	Japanese Spirea	40 cm	2 gal.	1000 mm o.c.
25	<i>Physocarpus opulifolius</i>	Diablo Ninebark	30 cm	2 gal.	750 mm o.c.
11	<i>Physocarpus opulifolius</i>	Diablo Ninebark	30 cm	2 gal.	750 mm o.c.

**PROJECT # 5 - West Side 2002 Addition Area - PLANT LIST**

QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
4	<i>Zurgipicus horzontalis</i> 'Hughes'	Hughes Juniper	30cm	2 gal.	1200 mm o.c.
12	<i>Zurgipicus horzontalis</i> 'Hughes'	Hughes Juniper	30cm	2 gal.	1200 mm o.c.
8	<i>Zurgipicus horzontalis</i> 'Hughes'	Hughes Juniper	30cm	2 gal.	1200 mm o.c.
1	<i>Comarostaphylis</i>	Wine Sage	50 cm	2 gal.	1200 mm o.c.
16	<i>Physocarpus opulifolius</i> 'Diablo'	Diablo Ninebark	40 cm	2 gal.	1000 mm o.c.
7	<i>Spirea japonica</i>	Japanese Spirea	30 cm	2 gal.	750 mm o.c.

**PROJECT # 6 - West Side Original Building Area - PLANT LIST**

QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
4	<i>Tilia cordata</i> 'Greenaspire'	Greenaspire Yucca Leaf Linden	50mm	W.B.	dense, full specimen
2	<i>Zurgipicus horzontalis</i> 'Hughes'	Hughes Juniper	30cm	2 gal.	1200 mm o.c.
3	<i>Yucca cordata</i> 'Greenaspire'	Greenaspire Yucca Leaf Linden	180cm	B. 46	1500 mm o.c.
6	<i>Physocarpus opulifolius</i> 'Diablo'	Diablo Ninebark	40 cm	2 gal.	1000 mm o.c.
20	<i>Physocarpus opulifolius</i> 'Diablo'	Diablo Ninebark	30 cm	2 gal.	750 mm o.c.
22	<i>Spirea japonica</i>	Japanese Spirea	30 cm	2 gal.	750 mm o.c.
3	<i>Sedum 'Autumn Joy'</i>	Autumn Joy Stonecrop	potbed	1 gal.	500 mm o.c.

**PROJECT # 7 - North side Building Area - PLANT LIST**

QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
10	<i>Microbiota decussata</i>	Russian Cypress	30cm	2 gal.	1200 mm o.c.
24	<i>Yucca cordata</i> 'Greenaspire'	Greenaspire Yucca Leaf Linden	180cm	B. 46	1500 mm o.c. (1 ex. transplanted)
10	<i>Comarostaphylis</i>	Ivory Halo Dogwood	50 cm	2 gal.	1200 mm o.c.
8	<i>Hydrangea arborescens</i> 'Annabelle'	Annabelle Hydrangea	n/a	2 gal.	1000 mm o.c.

**PROJECT # 8 - Staff Entrance Area - PLANT LIST**

QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
5	<i>Tilia cordata</i> 'Greenaspire'	Greenaspire Yucca Leaf Linden	50mm	W.B.	dense, full specimen
4	<i>Encyonema alatum</i>	Burning Bush	50 cm	2 gal.	1200 mm o.c.
20	<i>Bergenia ciliolata</i>	Heartleaf Bergenia	potbed	1 gal.	500 mm o.c.

**PROJECT # 9 - Ballroom Street Area - PLANT LIST**

QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
1	<i>Acer rubrum</i> 'Northwood'	Northwood Red Maple	50mm	W.B.	dense, full specimen
4	<i>Prunella nigra</i> 'Fall Gold'	Fall Gold Black Ash	50mm	W.B.	dense, full specimen
3	<i>Prunella nigra</i>	Black Ash	180mm	W.B.	dense, full specimen
4	<i>Prunella nigra</i>	Black Ash	50mm	W.B.	dense, full specimen
4	<i>Quercus macrocarpa</i>	Bur Oak	50mm	W.B.	dense, full specimen
20	<i>Physocarpus opulifolius</i> 'Diablo'	Diablo Ninebark	40 cm	2 gal.	1000 mm o.c.

GENERAL PLANTING NOTES

TREE PROTECTION NOTES

PLANT LIST BY PROJECT NUMBER (read together with drawing L-2.1)

**General Notes**

**LEGEND**

5		
4		
3		
2	Issued for tender	xx/xx/09
1	Issued for final review	Nov. 16, 09

**No.**      **Revision/Issue**      **Date**

**Notes:**  
Contractor to verify all dimensions on site and notify Consultant of any discrepancies.

Not for construction unless sealed, signed & dated

**Firm Name and Address**

**WERNER SCHWAR**  
**LANDSCAPE**  
**ARCHITECT**

P.O. Box 21048, 640 River St.  
Thunder Bay, ON P7A 3S0  
(807) 346-0607

**Project Name**

Thunder Bay District  
Health Unit  
Landscape Restoration Plan

999 Barton Street  
Thunder Bay, ON

**Drawing Title**

Planting Details  
Landscape Plan

**Project 09 - 295**      **Sheet**

**Date**      **Scale**

Sept. 2009      not to scale

**L-3.2**