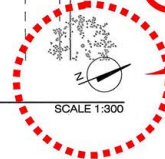


NOTE:  
ALL AREAS IN CITY OF EDMONTON BOULEVARDS DAMAGED DURING CONSTRUCTION TO RECEIVE SOD ON 150mm DEPTH COMPACTED CLASS 'B' TOPSOIL TYPICAL.

ALL BILLABLE QUANTITIES FOR CONSTRUCTION OF LANDSCAPE PLAN TO BE PROVIDED IN METRIC WITHIN LEGEND

ALL LABELS SHOULD BE CLEAR, MAKING THE PLANTS/OBJECTS EASILY IDENTIFIABLE

SCALE MUST BE IN METRIC, OF 1:300 OR LARGER



1 LANDSCAPE PLAN L1

LEGEND

- SOD ON 150mm DEPTH COMPACTED CLASS 'B' TOPSOIL [QTY 2468m<sup>2</sup>]
- PLANTING BED CONSTRUCTION (INCLUDES EXCAVATION TO 300mm DEPTH AND INSTALLATION OF CLASS 'B' TOPSOIL AND 100mm MULCH) [QTY 406m<sup>2</sup>]
- 1.8m HEIGHT TIMBER SCREEN FENCE [190m LENGTH]
- BIKE RACK [QTY 1]
- BENCH [QTY 1]
- GARBAGE RECEPTACLE [QTY 1]
- LIGHT FIXTURE [QTY 18]

LEGAL DESCRIPTION

LOT: 48  
BLOCK: 42  
PLAN: 112 5456  
CITY OF EDMONTON

MUNICIPAL ADDRESS

SAVARYN DRIVE SW  
EDMONTON, ALBERTA

GENERAL NOTES

FOR SITE GRADING REFER TO ENGINEERS DRAWINGS.  
FOR EXACT LOCATION OF ALL UNDERGROUND SHALLOW AND DEEP UTILITIES REFER TO ENGINEERS DRAWINGS.

LANDSCAPE REQUIREMENTS

LANDSCAPED YARD CALCULATION  
ZONING: EB - ELLERSLIE INDUSTRIAL BUSINESS ZONE  
NORTH YARD: 6.0m x 78.96m = 473.76 sqm  
WEST YARD: 6.0m x 63.20m = 379.20 sqm  
SOUTH YARD: 6.0m x 163.78m = 982.68 sqm  
TOTAL REQUIRED YARD: 1835.64 sqm  
ONE TREE FOR EACH 25.00sqm OF REQUIRED YARD.  
ONE SHRUB FOR EACH 15.00sqm OF REQUIRED YARD.  
PARKING AREA ISLAND CALCULATION  
TOTAL PARKING STALLS REQUIRED: 101 STALLS  
TOTAL PARKING AREA ISLANDS FOR 101 REQUIRED STALLS: 202.00 sqm  
ONE TREE FOR EACH 20.00sqm OF REQUIRED PARKING AREA ISLAND.  
ONE SHRUB FOR EACH 10.00sqm OF REQUIRED PARKING AREA ISLAND.  
PLANTING CALCULATION  
TOTAL REQUIRED YARD: 1835.64 sqm  
No. OF REQUIRED TREES: 75  
No. OF REQUIRED SHRUBS: 123  
TOTAL REQUIRED ISLAND AREA: 202.00 sqm  
No. OF REQUIRED TREES: 11  
No. OF REQUIRED SHRUBS: 21  
TOTAL No. OF REQUIRED TREES: 86  
TOTAL No. OF REQUIRED SHRUBS: 144  
No. OF PROVIDED TREES: 93  
No. OF PROVIDED SHRUBS: 289  
No. OF PROVIDED PERENNIALS: 256

PLANTING SCHEDULE

TOTAL	BOTANICAL NAME	COMMON NAME	COMMENTS
<b>DECIDUOUS TREES</b>			
4	<i>Aesculus glabra</i>	Ohio Buckeye	75 mm col. min., 4.0 m ht. min., b. & b.
12	<i>Malus x adstrigens</i> 'Durio'	Gladiator Crabapple	50 mm col. min., 3.5 m ht. min., b. & b.
6	<i>Prunus virginiana</i> 'Boley's Select'	Boley's Select Schubert Chokecherry	75 mm col. min., 4.0 m ht. min., b. & b.
16	<i>Quercus macrocarpa</i>	Bur Oak	50 mm col. min., 3.5 m ht. min., b. & b.
13	<i>Ulmus americana</i> 'Brandon'	Brandon Elm	75 mm col. min., 4.0 m ht. min., b. & b.
<b>CONIFEROUS TREES</b>			
8	<i>Larix sibirica</i>	Siberian Larch	3.5 m ht. min., b. & b.
14	<i>Picea glauca</i>	White Spruce	3.5 m ht. min., b. & b.
20	<i>Pinus contorta</i> latifolia	Lodgepole Pine	2.5 m ht. min., b. & b.
<b>DECIDUOUS SHRUBS</b>			
78	<i>Physocarpus opulifolius</i> 'Dart's Gold'	Dart's Gold Ninebark	60 cm ht. min., 5 major basal branches, potted (2 gal.)
85	<i>Physocarpus opulifolius</i> 'Little Devil'	Little Devil Ninebark	60 cm ht. min., 5 major basal branches, potted (2 gal.)
21	<i>Spiraea bumalda</i> 'Goldflame'	Goldflame Spirea	60 cm ht. min., 5 major basal branches, potted (2 gal.)
<b>CONIFEROUS SHRUBS</b>			
67	<i>Juniperus horizontalis</i> 'Monber'	Ice Blue Juniper	80 cm spread min., potted (5 gal.)
18	<i>Juniperus sibirica</i> 'Monard'	Moor Dense Juniper	80 cm spread min., potted (5 gal.)
20	<i>Pinus mugo</i> 'Slowmound'	Slowmound Mugo Pine	80 cm spread min., potted (5 gal.)
<b>PERENNIALS</b>			
256	<i>Colasporia oculiflora</i> 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal. pot

PLANT CALIPER, HEIGHT, OR SPREAD MUST BE PROVIDED AS PER REQUIREMENTS WITHIN EDMONTON ZONING BYLAW SECTION 55

REQUIRED LANDSCAPING COUNTS ARE CALCULATED AS PER EDMONTON ZONING BYLAW SECTION 55

<p>PROJECT NAME AND COMMUNITY HERE</p>	<p>APPLICANT LOGO HERE</p>	<p>LANDSCAPE PLAN &amp; NOTES</p> <p>SCALE AS SHOWN 10 APRIL 2017</p>	<p>ISSUED FOR</p> <p>1 DEVELOPMENT PERMIT 10/04/17</p>	<p>REVISIONS</p>	<p>DRAWING NUMBER</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">L1</p>	<p>LANDSCAPE ARCHITECT STAMP HERE</p>	<p>LANDSCAPE ARCHITECT LOGO AND CONTACT INFO HERE</p>
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**TREE PLANTING SETBACKS**

TREES SHALL BE SET BACK A MINIMUM DISTANCE, MEASURED FROM THE CENTRE OF THE TREE TRUNK, FROM ABOVE AND BELOW GRADE UTILITIES AND PROPERTY LINES AS FOLLOWS:

- DISTANCE FROM LIGHT STANDARDS/POWER HARDWARE: 3.5m
- DISTANCE FROM FIRE HYDRANTS: 3.5m
- DISTANCE FROM STOP SIGNS: 3.5m
- DISTANCE FROM YIELD SIGNS: 3.5m
- DISTANCE FROM TRANSIT ZONES: 3.5m
- DISTANCE FROM OTHER SIGNS: 2.0m
- DISTANCE FROM PRIVATE PROPERTY ON WALKWAY ROW: 2.0m
- DISTANCE FROM PRIVATE PROPERTY ON OPEN PARKLAND: 3.0m
- DISTANCE FROM PRIVATE PROPERTY ON BOULEVARDS: 1.0m
- DISTANCE FROM SHALLOW UNDERGROUND UTILITIES: 1.0m
- DISTANCE FROM GAS AND OIL ROW: CONTACT UTILITY
- DISTANCE FROM DEEP UNDERGROUND UTILITIES: 1.5m
- DISTANCE FROM SANITARY AND STORM SEWERS: 1.8m
- DISTANCE TO SANITARY AND STORM SEWERS/MANHOLES: 1.8m
- DISTANCE FROM WATER MAINS: 1.8m

DISTANCES FROM OVERHEAD POWER UTILITIES SHALL BE AS PER THE REQUIREMENTS ESTABLISHED BY THE UTILITY AUTHORITY.

WHERE POSSIBLE, LANDSCAPE IMPROVEMENTS AND PLANT MATERIALS ARE SUGGESTED TO HAVE INCREASED SETBACKS FROM UTILITIES.

IN THE EVENT A MINIMUM CLEARANCE OF 1.0m MAY NOT BE MAINTAINED FROM THE EDGE OF THE EXCAVATION BY THE TREE SPADE, THE INVOLVED UTILITY MUST BE CONTACTED FOR APPROVAL AND/OR SAFETY PROCEDURES, E.G. BY HAND DIGGING.

DISTANCE FROM LOW, INTERMEDIATE AND HIGH-PRESSURE PIPELINES AS TO BE OBSERVED AS DICTATED BY THE PIPELINE AUTHORITY.

SETBACK DISTANCES APPLY TO ALL TREE AND TREE FORM SHRUB SPECIES. SPECIES WITH SUCKERING ROOT SYSTEMS OR LARGE HANGING CANOPIES MAY REQUIRE INCREASED SETBACKS, E.G. POPLARS AND WILLOWS. REFER TO SECTION 6.4.1 OF THE CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS.

**SOD MIX & NOTES**

CERTIFIED "CANADA #1" TURF SOD WITH STRONG ROOT SYSTEM, THICK AND HEALTHY GROWTH AND DELIVERED 24 HOURS FROM THE TIME OF CUTTING. SOD MUST BE FREE OF STONES, BURNS, DIRT OR BARE SPOTS, TEARS AND DELIVERED MOIST, CUT IN STRIPS OF UNIFORM WIDTH AND THICKNESS ANY OF THE FOLLOWING MIX OR APPROVED EQUAL:

- 30% TOUCHDOWN KENTUCKY BLUE GRASS
- 40% KENTUCKY BLUE GRASS
- 30% CREEPING RED FESCUE

**NOTES:**

- ALL COMPONENTS AND WORKMANSHIP TO CONFORM TO SPECIFICATION SECTION 02930 TREES, SHRUBS AND GROUNDCOVERS AS WELL AS THE RELATED SECTIONS.
- IF MINIMUM UTILITY SETBACKS PERMIT POSITION TREE STAKES INTO DIRECTION OF PREVAILING WINDS OR IF IN THE BOULEVARD THE STAKES SHOULD BE IN LINE WITH THE DIRECTION OF TRAFFIC.
- ALL TREE STAKES TO MAINTAIN MINIMUM 1.0m CLEARANCE FROM ALL U/G POWER, TELEPHONE AND GAS ALIGNMENTS.
- DIG ALL ROOT HOLES BY HAND WHEN CLOSER THAN 1.0m TO U/G POWER, TELEPHONE AND GAS ALIGNMENTS (REFER TO SECTION 7.6.2 AND 7.6.3 WHEN CLEARANCE CANNOT BE MAINTAINED FOR ANY EXCAVATIONS).
- ALL DIMENSIONS IN MILLIMETERS.
- PRUNE DEAD, BROKEN, STUBS & DISEASED TREE LIMBS.
- RUBBER HOSE, 12mm OR APPROVED EQUAL, POSITION AT APPROX. 305 HT. FOR ALL TREES.
- FLUORESCENT ORANGE FLAGGING ON ALL GUY WIRES.
- GALVANIZED GUY WIRE No. 12 (MIN. SIZE).
- 2 VERTICAL STAKES PER TREE.
- TREE STAKES MIN. 2.0m LENGTH PLAIN T-POSTS (1.38L/FT) C/W 7 PUNCHED HOLES (1.12" X 1.38" X 7") OR TEETH / NOTCHES.
- ALL EXPOSED PORTIONS OF TREE STAKES FREE OF RUST, SCALED, PRIMED, & PAINTED.
- TREE STAKES SET MIN. 600mm INTO UNDISTURBED SOIL.
- TOP 300mm OF ALL TREE STAKES TO BE PAINTED TO MATCH ANNUAL COLOUR CODES.
- LARGE TREES TO HAVE 3-4 STAKES.
- TOP OF ROOT BALL & ROOT FLARE TO BE 40mm ABOVE FINISHED GRADE.
- 100mm MIN. WOOD MULCH - REFERENCE SPECIFICATION 02914 MULCHES, OVER EXPOSED ROOT BALL.
- TAPER MULCH TO BASE OF TREE.
- MULCH TO EXTEND 150mm BEYOND EDGE OF WELL BUMP.
- RE-ESTABLISH ANY DAMAGED SEEDSOD TO CITY OF EDMONTON STANDARDS.
- 254mm WIDE X 51mm HIGH TOPSOIL BUMP TO HOLD IN WATER (CENTRE LINE OF BUMP TO BE 100mm FROM TREE TRUNK).

**PLAN MUST INCLUDE TREE AND SHRUB PLANTING DETAILS, AND ANY OTHER APPLICABLE DETAILS NEEDED FOR CONSTRUCTION**

**City of Edmonton** TYPICAL TREE INSTALLATION

DATE: JUNE 2016	PROJECT: PARKS PLANNING	REVISION: N.T.S.	DRAWING NO.: LA102
DATE: N.T.S.	PROJECT: PARKS PLANNING	REVISION: N.T.S.	DRAWING NO.: SP400a

1 | TYPICAL TREE PLANTING DETAIL

**PLANTING NOTES**

CONTRACTOR TO NOTIFY CONSULTANT FOR SELECTION OF ALL TREES AT LOCAL NURSERY. ALL TREES TO APPROVAL OF CONSULTANT.

ONLY NURSERY GROWN PLANT MATERIAL WILL BE ACCEPTED. ALL PLANTS SHALL BE No. 1 GRADE NURSERY STOCK AND CONFORM TO STANDARDS OF THE CANADIAN NURSERY TRADES ASSOCIATION AND THE LANDSCAPE ALBERTA NURSERY TRADES ASSOCIATION.

PRIOR TO INSTALLATION OF TREES AND SHRUBS, THE CONTRACTOR SHALL ENSURE COORDINATION WITH ALBERTA FIRST CALL TO STAKE ALL UTILITIES. ALL PLANT MATERIAL TO HAVE REQUIRED SETBACK FROM UTILITIES. NO TREE STAKES WITHIN 1.0m OF POWER LINE.

PRIOR TO INSTALLATION OF TREES AND SHRUBS THE CONSULTANT WILL APPROVE STAKING OF ALL TREES AND SHRUB BEDS. CONTRACTOR TO NOTIFY CONSULTANT 48h PRIOR TO INSPECTION.

IF EXCAVATIONS ARE REQUIRED CLOSER THAN 1.0m TO UNDERGROUND POWER, PHONE, CABLE AND GAS ALIGNMENTS, HAND DIGGING UNDER THE SUPERVISION OF THE AFFECTED UTILITY IS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT AND THE APPROPRIATE UTILITY TO APPROVE, REVIEW AND DEFINE SAFE PROCEDURES FOR THESE EXCAVATIONS.

SUBSTITUTION OF PLANT MATERIAL TO APPROVAL OF CONSULTANT.

ENSURE ALL TREES HAVE A STRONG SINGLE LEADER AND ARE STRAIGHT BODIED, NICELY GROWN TREES WITH A TYPICAL SHAPE.

TREES PLANTED IN STRAIGHT LINES WITH EQUAL SPACING WHERE APPLICABLE.

ALL SHRUB BEDS c/w 300mm MIN. DEPTH LIGHTLY COMPACTED CLASS 'B' TOPSOIL.

SHRUB SETBACK SHALL BE 500mm MIN. FROM EDGE OF SHRUB BED. EDGING: USE PERMALOC PERMASTRIP ALUMINUM EDGING, INSTALLED AS PER MANUFACTURERS SPECIFICATIONS, BETWEEN SOD AND PLANTING BEDS OR SOD AND ROCK MULCH AREAS. EDGING TO BE STRAIGHT. NO EDGING IS REQUIRED FOR SINGLE TREES IN GRASS AREAS.

MULCH: USE 100mm DEPTH MIN. SHREDDED CONIFEROUS WOOD MULCH FOR TREES, SHRUB AND PERENNIAL BEDS. NO LANDSCAPE FABRIC REQUIRED FOR SHREDDED WOOD MULCH AREAS UNLESS NOTED OTHERWISE.

IRRIGATION: LANDSCAPED AREAS ARE NOT IRRIGATED.

ALL LANDSCAPE CONSTRUCTION AND MAINTENANCE (MINIMUM 1 YEAR) TO BE COMPLETED BUT NOT LIMITED TO MINIMUM STANDARDS OF MOST RECENT EDITION OF CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS.

**SEED MIX & NOTES**

CERTIFIED "CANADA #1" MIXTURE, FREE OF DISEASE, WEED SEEDS OR FOREIGN MATTER. MINIMUM GERMINATION OF 75%, MINIMUM PURITY OF 97% AND CONFORMING TO LISTED SEED MIX COMPOSITION. ALL SEED MUST BE FROM A RECOGNIZED SEED FIRM, MEETING THE REQUIREMENTS FOR THE SEEDS ACT FOR CANADA #1 SEED. SEED SHALL BE CERTIFIED #1 GRADE. A GERMINATION TEST AND/OR WEED SEED ANALYSIS MAY BE REQUESTED AND ALL LAWN SEED MUST COMPLY WITH FEDERAL AND PROVINCIAL SEED LAWS.

- PARKS MAINTENANCE #1 SEED MIX:
- 30% TOUCHDOWN KENTUCKY BLUE GRASS
  - 20% BONNY KENTUCKY BLUE GRASS
  - 30% CREEPING RED FESCUE
  - 20% FIESTA II PERENNIAL RYE GRASS

**City of Edmonton** TYPICAL SHRUB PLANTING

**NOTES:**

- SPECIFICATIONS: ALL COMPONENTS AND WORKMANSHIP CONFORM TO SPECIFICATION SECTION 02930 TREES, SHRUBS AND GROUNDCOVERS AS WELL AS THE RELATED SECTIONS.
- PRUNE ONLY DEAD, BROKEN OR DISEASED BRANCHES TO MAINTAIN PROPER SHRUB FORM (DECIDUOUS ONLY).
- DO NOT ROTOTILL WITHIN 1.0m OF U/G POWER, TELEPHONE AND GAS ALIGNMENTS.
- DIG ALL ROOT HOLES BY HAND WHEN CLOSER THAN 1.0m TO U/G POWER, TELEPHONE AND GAS ALIGNMENTS.
- 100mm MIN. MULCH, CONIFEROUS SHREDDED BARK OR APPROVED EQUAL. TAPER MULCH TO BASE OF SHRUB.
- RE-ESTABLISH ANY DAMAGED SEEDSOD TO CITY OF EDMONTON STANDARDS.
- SPREAD ROOTS EVENLY THROUGHOUT CLASS 'B' TOPSOIL. PRUNE ALL DAMAGED ROOTS.
- 300mm MIN. DEPTH CLASS 'B' TOPSOIL, MODERATELY COMPACTED. ENSURE STABILITY OF ROOT BALL.
- ROTOTILL 150mm NATIVE SOIL. ADD CLASS 'B' TOPSOIL.
- UNDISTURBED NATIVE SUBSOIL.

**OPTIONS:**

- A: EDGING DETAIL
- B: CONCRETE CURB W/ VERGE DETAIL
- C: CONCRETE/ASPHALT WALK DETAIL

2 | TYPICAL SHRUB PLANTING DETAIL

**City of Edmonton** TREE PROTECTION ZONE

**TREE PROTECTION ZONE CALCULATION TABLE**

TRUNK DIAMETER (DBH)	MINIMUM PROTECTION DISTANCE REQUIRED (MEASURE FROM THE OUTSIDE EDGE OF TREE TRUNK)
10 CM & UNDER	1.2 METERS
11 - 30 CM	1.8 METERS
31 - 40 CM	2.4 METERS
41 - 50 CM	3.0 METERS
51 - 60 CM	3.6 METERS
61 - 70 CM	4.2 METERS
71 - 80 CM	4.8 METERS
>80 CM	5.0 METERS

**NOTES:**

- WOOD POST: (MIN. 76MM WIDTH) INSTALLED TO A DEPTH OF 500MM (ALBERTA FIRST CALL REQUIRED)
- TOP AND BOTTOM RAIL: (MIN. 38 X 89MM CONSTRUCTION, MAX. SPAN 2.5M), CROSS BRACING AS REQUIRED.
- HEIGHT OF THE FENCE: MIN. 1.2 METERS
- NO GROUND DISTURBANCE WITHIN 1.2 METERS OF THE TREE TRUNK (I.E. POST INSTALLATION)
- POSTS SET BACK FROM SIDEWALK AND CURB: MIN 300MM
- FENCE MATERIAL: MINIMUM ORANGE BARRIER FENCE OR METAL CHAIN LINK FENCE
- ATTACH A SIGN ON TWO SIDES OF THE TREE PROTECTION BARRIER. SIGNAGE TO READ "TREE PROTECTION ZONE. DO NOT REMOVE FENCE DURING CONSTRUCTION"

3 | TYPICAL TREE HOARDING DETAIL

PROJECT NAME AND COMMUNITY HERE	APPLICANT LOGO HERE	LANDSCAPE PLAN & NOTES	ISSUED FOR	REVISIONS	DRAWING NUMBER	LANDSCAPE ARCHITECT STAMP HERE	LANDSCAPE ARCHITECT LOGO AND CONTACT INFO HERE
		SCALE AS SHOWN 10 APRIL 2017	1 DEVELOPMENT PERMIT	10/04/17	L2		