KEY PLAN SCALE: 1:2000

# SOUTHGATE SOLAR PROJECT: LANDSCAPE SCREENING SUBMISSION

TOWNSHIP OF SOUTHGATE, COUNTY OF GREY, ONTARIO

## **DESCRIPTION:**

SOLAR ENERGY FACILITY LOCATED NORTHEAST OF MOUNT FOREST. PLANS INCLUDE VISUAL SCREENING MITIGATION PLANTINGS, PLANTING DETAILS AND SPECIES LISTS.

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Conditions of Use

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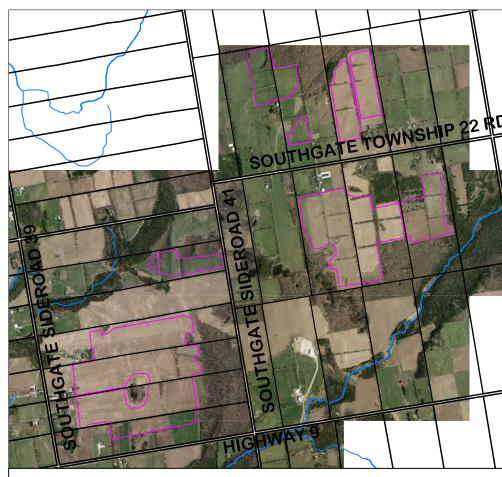


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LANDSCAPE SCREENING KEY PLAN

SOUTHGATE SOLAR LP

LO



Receptor Involved with the Project

Screening Landscape A Enhanced Screening Landscape B

Receptor

Enhanced Screening Landscape C

----- Proposed Fence Line

— Proposed Access Road

Proposed Solar Array

Watercourse — Property Line

TYPICAL NOTES:

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH BY-LAWS AND CODES HAVING JURISDICTION OVER SITE LOCATION.
- 2. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PRESERVE MATURE TREES WHICH ARE BEYOND THE CONSTRUCTION LIMITS.
- 3. ANY CHANGES OR SUBSTITUTIONS TO THE PLANT MATERIAL MUST
- BE APPROVED BY THE LANDSCAPE ARCHITECT. 4. CLEARING AND GRUBBING SHALL BE UNDERTAKEN AS TO MINIMIZE DISRUPTION TO ADJACENT LANDS NOT WITHIN THE CONSTRUCTION LIMITS. ENCROACHMENT ON WOODLANDS NOT INDICATED ON THE
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- 7. CONTRACTOR TO PROVIDE A MINIMUM TWO (2) YEAR WARRANTY FROM DATE ACCEPTED ON ALL WORK.
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- 9. LANDSCAPE PLAN IS DRAFT UNTIL APPROVED BY THE LOCAL

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SOUTHGATE SOLAR LP

LANDSCAPE SCREENING PROPERTY 11

SHEET NO.



TYPICAL NOTES:

Watercourse

LEGEND:

Receptor

Receptor Involved with the Project

Enhanced Screening Landscape B

Enhanced Screening Landscape C

Screening Landscape A

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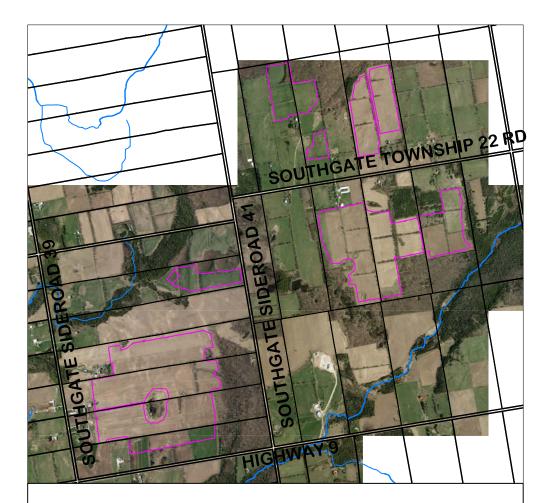
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LANDSCAPE SCREENING

PROPERTY 12

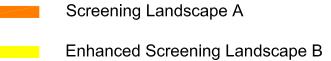
SOUTHGATE SOLAR LP

SHEET NO.



Receptor Involved with the Project





Enhanced Screening Landscape C

Proposed Fence Line

----- Proposed Access Road

Proposed Solar Array

Watercourse

— Property Line

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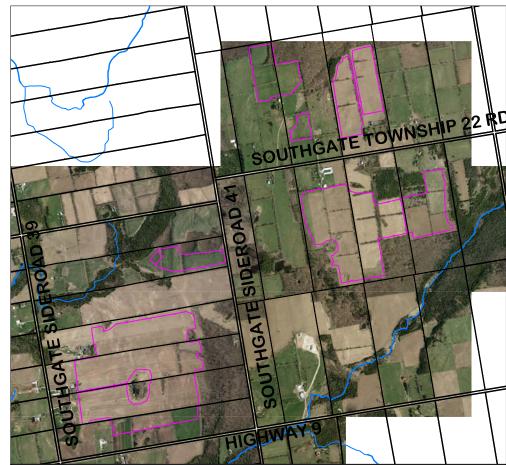
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SOUTHGATE SOLAR LP

LANDSCAPE SCREENING PROPERTY 13

SHEET NO.



Receptor Involved with the Project

Receptor

Screening Landscape A

Enhanced Screening Landscape B

Enhanced Screening Landscape C

Proposed Fence Line

----- Proposed Access Road

Watercourse

Proposed Solar Array

— Property Line

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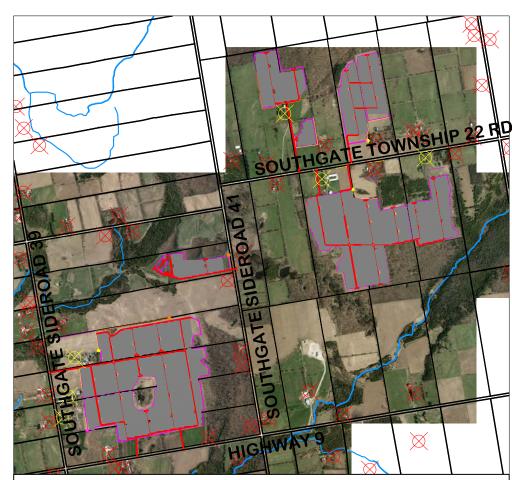


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LANDSCAPE SCREENING PROPERTY 14

SOUTHGATE SOLAR LP

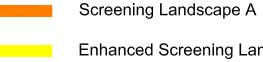
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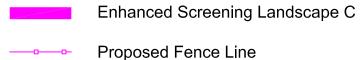
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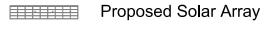


Receptor



Enhanced Screening Landscape B





— Proposed Access Road

Watercourse

— Property Line

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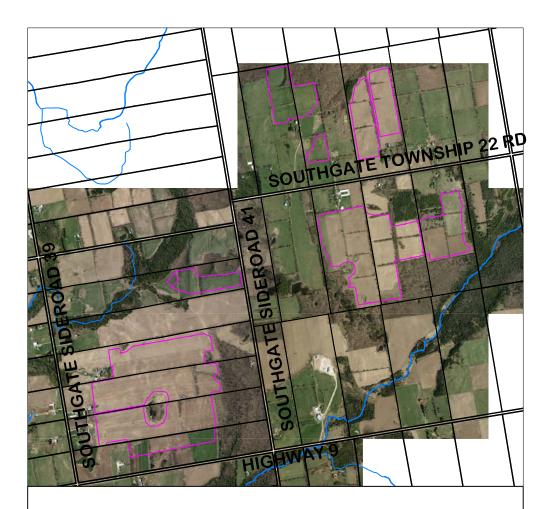


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LANDSCAPE SCREENING PROPERTY 16

SOUTHGATE SOLAR LP

SHEET NO.



Receptor Involved with the Project

Screening Landscape A

Receptor

Enhanced Screening Landscape B

Enhanced Screening Landscape C

— Proposed Fence Line

——— Proposed Access Road

Proposed Solar Array

Watercourse

— Property Line

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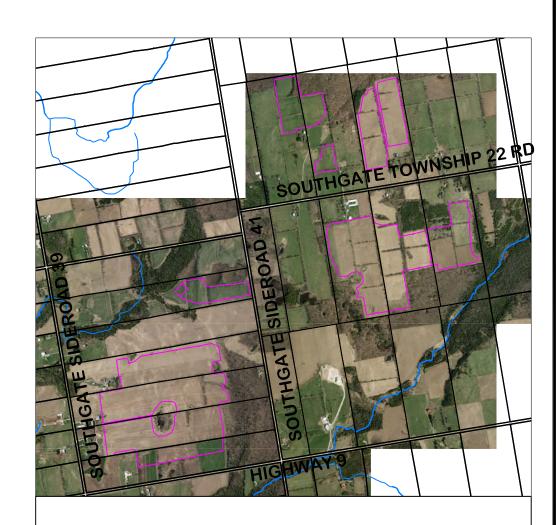


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LANDSCAPE SCREENING PROPERTY 18

SOUTHGATE SOLAR LP

SHEET NO.



Receptor Involved with the Project

Screening Landscape A

Enhanced Screening Landscape B

Enhanced Screening Landscape C

— Proposed Fence Line

----- Proposed Access Road

Proposed Solar Array

Watercourse

— Property Line

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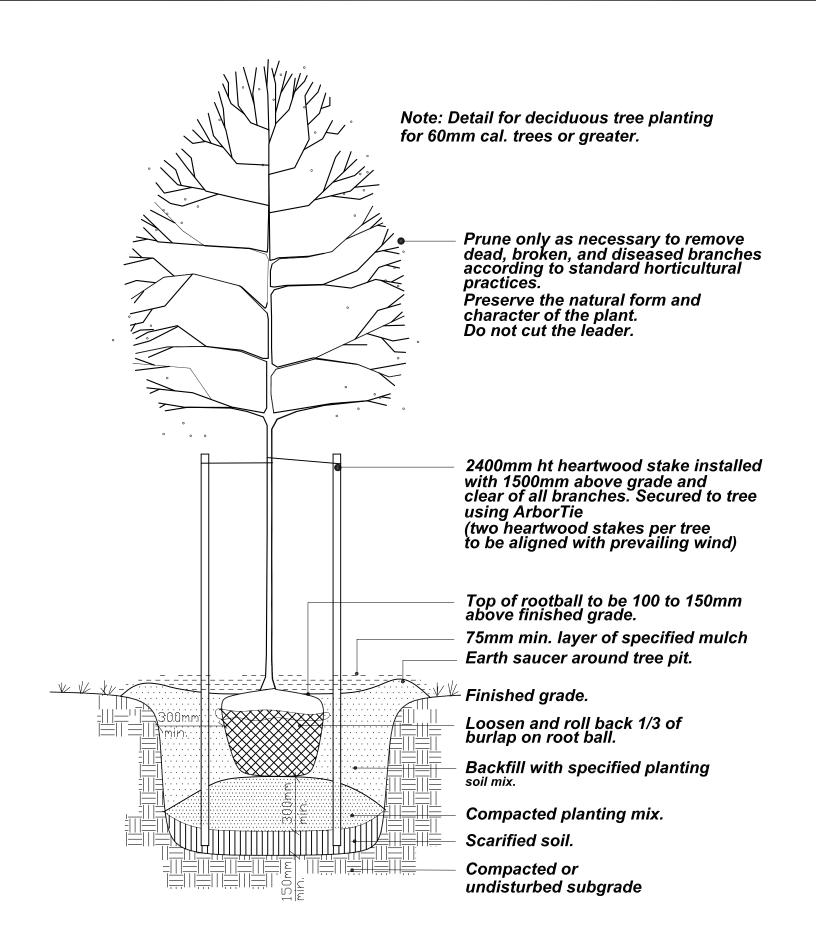


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LANDSCAPE SCREENING PROPERTY 19

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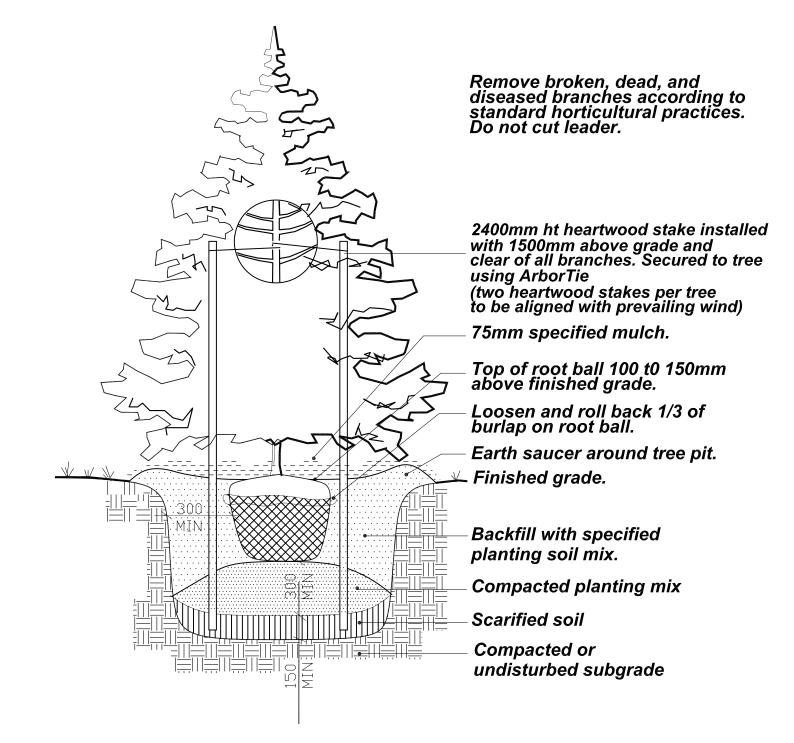
**ArborTie** 

Fold ends of arbortie back. Secure to stake with 1" galvanized roofing nail or use a knot.

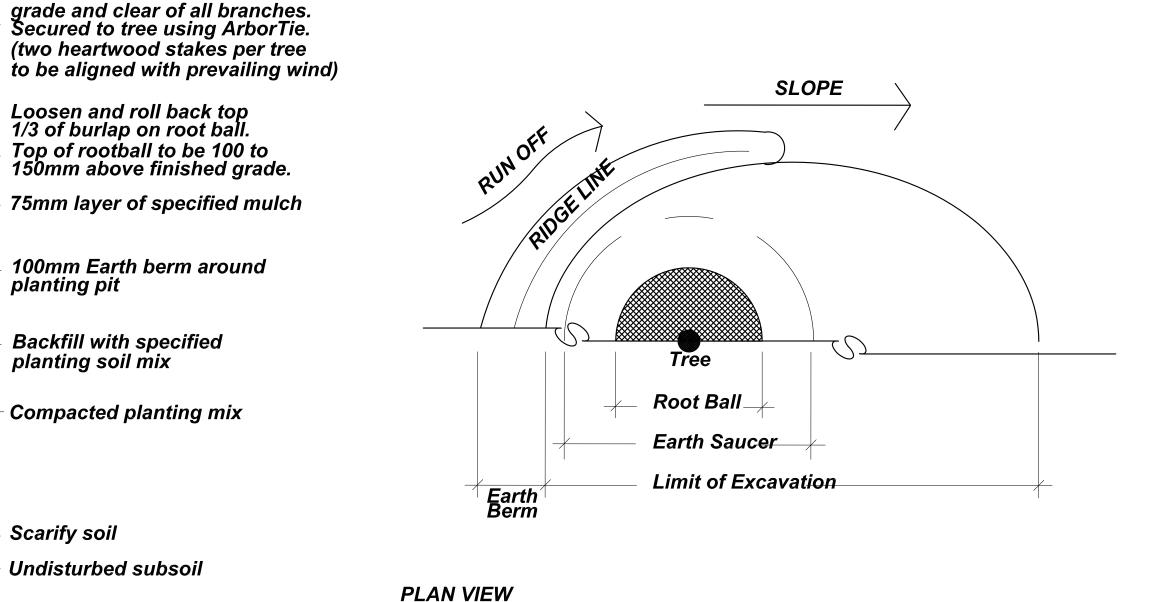
Arbor Tie nailed to stake

#### Materials:

-Specified ArborTire green (or white) staking and guying material is to be flat woven polyporpylene material. 3/4" (19.05 mm) wide 900 lb. break strength. -ArborTie shall be fastened to stakes in a manner which permits tree movement and supports the tree.



## CONIFEROUS TREE PLANTING N.T.S.



Prune as directed to remove only dead or dying wood 75mm specified mulch Plant shrubs 50mm ( 2 inches) above grade

Construct topsoil water retention saucer around planting pit 100mm (4 inches) above surrounding elevation

Backfill with specified planting soil mix

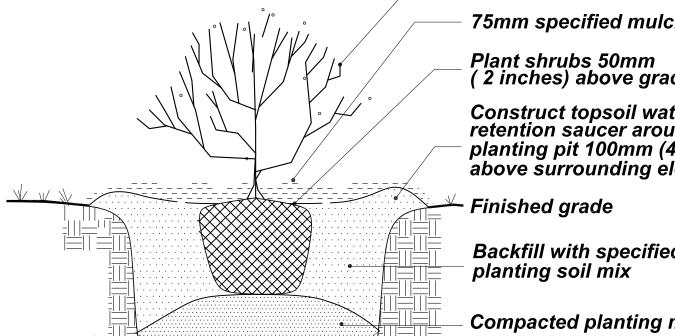
Compacted planting mix

Scarify soil

- Undisturbed subsoil

**SECTION VIEW** 

D3 SLOPE PLANTING



D1 DECIDUOUS TREE PLANTING
N.T.S.

D4 SHRUB PLANTING

DISRUPTION TO ADJACENT LANDS NOT WITHIN THE CONSTRUCTION LIMITS. ENCROACHMENT ON WOODLANDS NOT INDICATED ON THE DRAWINGS WILL REQUIRE WRITTEN CONSENT BY THE LAND OWNER AND CONSERVATION AUTHORITY. 5. IT IS THE RESPONSIBILITY OF THE CLIENT AND THEIR SELECTED

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3. ANY CHANGES OR SUBSTITUTIONS TO THE PLANT MATERIAL MUST

4. CLEARING AND GRUBBING SHALL BE UNDERTAKEN AS TO MINIMIZE

TYPICAL PLANTING NOTES:

2. ENSURE THAT PLANT MATERIAL DOES NOT DRY OUT PRIOR TO

5. MULCH AND WATER PLANT IMMEDIATELY FOLLOWING PLANTING.

6. CONTRACTOR SHALL REMOVE TREE STAKES AND TIES ONE YEAR

8. PLANT MATERIAL SHALL NOT SIT ON SITE FOR LONGER THAN 5 DAYS.

9. DISTURBED SOIL AREAS TO BE SEEDED WITH SPECIFIED SEED MIX. CONTRACTOR TO USE 100% ELYMUS CANADENSIS (CANADA WILD RYE)

10. TOPSOIL TO BE SUPPLIED AND INSTALLED ACCORDING TO OPSS 570 TO A MINIMUM DEPTH OF 150mm UNLESS OTHERWISE SPECIFIED.

11. DISTURBED SOIL AREAS TO BE COVERED WITH MINIMUM 75mm

AS A COVER CROP. SEEDING TO BE IN ACCORDANCE WITH OPSS 572.

SHREDDED MULCH SUCH AS GRO-BARK SPM OR HARDWOOD BLEND

OR APPROVED EQUIVALENT. ALTERNATIVE MULCH TO BE APPROVED

12. PLANTING ON 3:1 SLOPE, CREATE TEMPORARY 100MM HIGH SOIL MIX BERM ON DOWNHILL SIDE OF PLANTING PIT TO RETAIN WATER. ENSURE THAT PLANT MATERIAL DOES NOT DRY OUT PRIOR TO

AFTER PLANTING, OR AT END OF WARRANTY PERIOD IF STAKES ARE

SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.

4. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.

7. NO TREE PITS SHALL BE LEFT OPEN OVERNIGHT.

BY LANDSCAPE ARCHITECT IN WRITING.

**TYPICAL NOTES:** 

INSTALLATION.

THE LANDSCAPE ARCHITECT.

1. NO SPECIES SUBSTITUTION WITHOUT WRITTEN AUTHORIZATION FROM

3. TREES SHALL BE SET @ 50mm ABOVE ORIGINAL NURSERY GRADE AND

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8. CONTRACTORS ARE NOT TO SCALE MEASUREMENTS OFF OF THE

9. LANDSCAPE PLAN IS DRAFT UNTIL APPROVED BY THE LOCAL

DRAFT NOT FOR CONSTRUCTION

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DILLON CONSULTING

2400mm ht heartwood stake installed with 1500mm above grade and clear of all branches. Secured to tree using ArborTie.

(two heartwood stakes per tree

Top of rootball to be 100 to 150mm above finished grade.

75mm layer of specified mulch

100mm Earth berm around

Backfill with specified

Compacted planting mix

planting soil mix

planting pit

Scarify soil

Undisturbed subsoil

Loosen and roll back top 1/3 of burlap on root ball.

				DESIGN	REVIEWED BY	Γ
				JL	CP	
				DRAWN	CHECKED BY	L
				JL	CP	
				DATE		l
				June 2	015	
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1	Submitted to Client for Review	06-11-15	JL	NTS		
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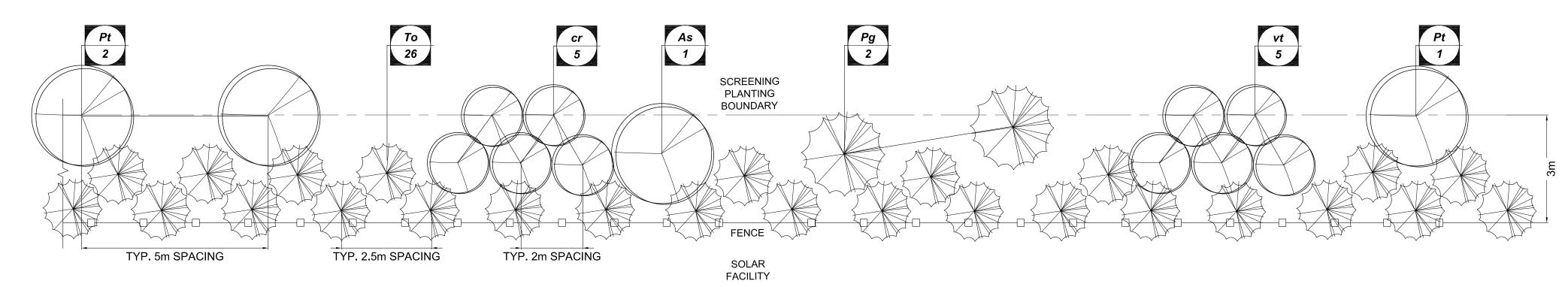
LANDSCAPE SCREENING

PLANTING DETAILS

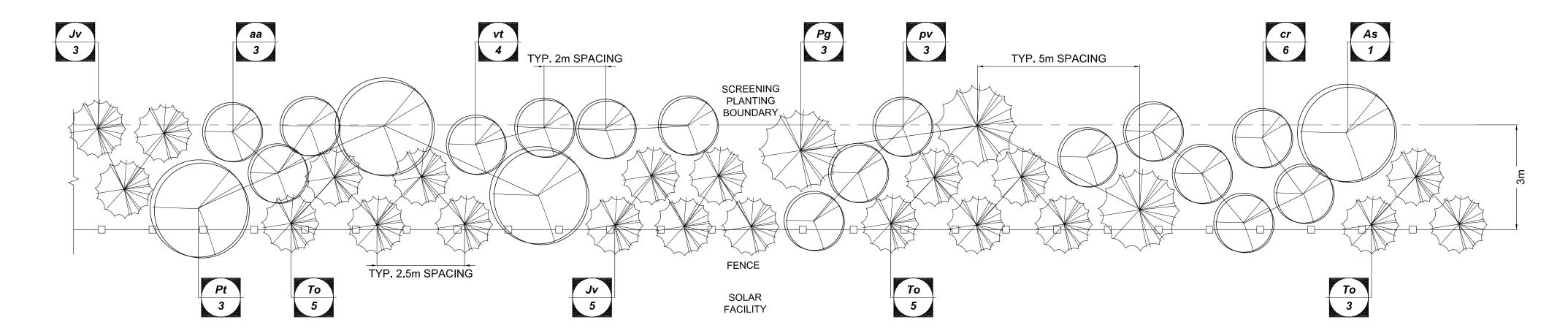
SOUTHGATE SOLAR LP

SHEET NO.

## D5 SCREENING LANDSCAPE A



## D6 ENHANCED SCREENING LANDSCAPE B



## D7 ENHANCED SCREENING LANDSCAPE C

#### TYPICAL PLANTING NOTES:

- NO SPECIES SUBSTITUTION WITHOUT WRITTEN AUTHORIZATION FROM THE LANDSCAPE ARCHITECT.
- 2. ENSURE THAT PLANT MATERIAL DOES NOT DRY OUT PRIOR TO INSTALLATION.
- 3. TREES SHALL BE SET @ 50mm ABOVE ORIGINAL NURSERY GRADE AND SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.
- 4. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
- 5. MULCH AND WATER PLANT IMMEDIATELY FOLLOWING PLANTING.
- CONTRACTOR SHALL REMOVE TREE STAKES AND TIES ONE YEAR
  AFTER PLANTING, OR AT END OF WARRANTY PERIOD IF STAKES ARE
  STILL REQUIRED.
- 7. NO TREE PITS SHALL BE LEFT OPEN OVERNIGHT.
- 8. PLANT MATERIAL SHALL NOT SIT ON SITE FOR LONGER THAN 5 DAYS.
- 9. DISTURBED SOIL AREAS TO BE SEEDED WITH SPECIFIED SEED MIX.
  CONTRACTOR TO USE 100% ELYMUS CANADENSIS (CANADA WILD RYE)
  AS A COVER CROP. SEEDING TO BE IN ACCORDANCE WITH OPSS 572.
- 10. TOPSOIL TO BE SUPPLIED AND INSTALLED ACCORDING TO OPSS 570 TO A MINIMUM DEPTH OF 150mm UNLESS OTHERWISE SPECIFIED.
- 11. DISTURBED SOIL AREAS TO BE COVERED WITH MINIMUM 75mm SHREDDED MULCH SUCH AS GRO-BARK SPM OR HARDWOOD BLEND OR APPROVED EQUIVALENT. ALTERNATIVE MULCH TO BE APPROVED BY LANDSCAPE ARCHITECT IN WRITING.
- 12. PLANTING ON 3:1 SLOPE, CREATE TEMPORARY 100MM HIGH SOIL MIX BERM ON DOWNHILL SIDE OF PLANTING PIT TO RETAIN WATER. ENSURE THAT PLANT MATERIAL DOES NOT DRY OUT PRIOR TO INSTALLATION.

#### **TYPICAL NOTES:**

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH BY-LAWS AND CODES HAVING JURISDICTION OVER SITE LOCATION.
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- LIMITS. ENCROACHMENT ON WOODLANDS NOT INDICATED ON THE DRAWINGS WILL REQUIRE WRITTEN CONSENT BY THE LAND OWNER AND CONSERVATION AUTHORITY.

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- 9. LANDSCAPE PLAN IS DRAFT UNTIL APPROVED BY THE LOCAL MUNICIPALITY.

THE PLANTINGS ARE REQUIRED.

#### DRAFT NOT FOR CONSTRUCTION

Conditions of Use		'\'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			DESIGN JL	REVIEWED BY  CP	SOUTHGATE SOLAR LP	PROJECT NO. 14-9154
Verify elevations and/or dimensions on drawing prior to use.  Report any discrepancies to Dillon Consulting Limited.					JL	CP		SHEET NO.
Do not scale dimensions from drawing.  Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior			DILLON		June	e 2015	LANDSCAPE SCREENING PLANTING DETAILS	L9
written permission from Dillon Consulting Limited.			CONSULTING	Submitted to Client for Review  No. ISSUED FOR	06-11-15 JL NTS			

### SCREENING LANDSCAPE A

Key	Botanical Name	Common Name	Size	Cond.	Unit	Mature Height	Mature Spread	Min. o/c Spacing	Qty.	Total Qty.
TREES										
As	Acer saccharum	Sugar Maple	40mm cal.	WB	ea.	35m	10m	5m o/c	1	51
Pg	Picea glauca	White Spruce	1.75m hgt	BB	ea.	25m	5m	5m o/c	2	102
Pt	Populus tremuloides	Trembling Aspen	40mm cal.	WB	ea.	25m	8m	5m o/c	3	153
То	Thuja occidentalis	Eastern White Cedar	1.75m hgt	BB	ea.	15m	5m	2.5m o/c	26	1323
SHRUE	BS									
cr	Cornus racemosa	Gray Dogwood	3 gal.	Potted	ea.	5m	3m	2m o/c	5	254
vt	Viburnum trilobum	High Bush Cranberry	3 gal.	Potted	ea.	5m	3m	2m o/c	5	254
								Total:	42	2137

### ENHANCED SCREENING LANDSCAPE B

Key	Botanical Name	Common Name	Size	Cond.	Unit	Mature Height	Mature Spread	Min. o/c Spacing	Qty.	Total Qty.
TREES										
As	Acer saccharum	Sugar Maple	40mm cal.	WB	ea.	35m	10m	5m o/c	1	10
Jv	Juniperus virginiana	Eastern Red Cedar	1.75m hgt	BB	ea.	10m	3m	2m o/c	8	80
Pg	Picea glauca	White Spruce	1.75m hgt	BB	ea.	25m	5m	5m o/c	3	30
Pt	Populus tremuloides	Trembling Aspen	40mm cal.	WB	ea.	25m	8m	5m o/c	3	30
То	Thuja occidentalis	Eastern White Cedar	1.75m hgt	BB	ea.	15m	5m	2.5m o/c	13	130
SHRUE	BS									
aa	Amelanchier arborea	Downy Serviceberry	3 gal.	Potted	ea.	12m	3m	2m o/c	3	30
cr	Cornus racemosa	Gray Dogwood	3 gal.	Potted	ea.	5m	3m	2m o/c	6	60
pv	Prunus virginiana	Choke Cherry	3 gal.	Potted	ea.	9m	3m	2m o/c	3	30
vt	Viburnum trilobum	High Bush Cranberry	3 gal.	Potted	ea.	5m	3m	2m o/c	4	40
								Total:	44	440

#### ENHANCED SCREENING LANDSCAPE C

%	Botanical Name	Common Name			
10%	Agrostis perennans	Autumn Bentgrass			
2%	Aster novae-anglais	New England Aste			
10%	Bromus ciliatus	Fringed Brome			
20%	Elymus canadensis	Canada Wild Rye Annual Ryegrass			
20%	Lolium multiflorum				
2%	Monarda fistulosa	Wild Bergamot			
5%	Rudbeckia hirta	Black Eyed Susan			
20%	Schizachyrium scoparium	Little Bluestem			
10%	Scorobolus compositus	Rough Dropseed			
1%	Solidago nemoralis	Gray Goldenrod			



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14-9154 **Conditions of Use** CP SOUTHGATE SOLAR LP CHECKED BY Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited. LANDSCAPE SCREENING Do not scale dimensions from drawing. June 2015 **DILLON** PLANT LISTS Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited. Submitted to Client for Review 06-11-15

CONSULTING