

Appendix C

Landscape Design

100% SUBMISSION

GWP #2006-21-00
Contract #2020-2150

LANDSCAPE DESIGN

**Ministry of
Transportation**



REV	DATE	DESCRIPTION

GWP 2006-21-00
CONT 2020-2150



LANDSCAPE INDEX

LND-000-1

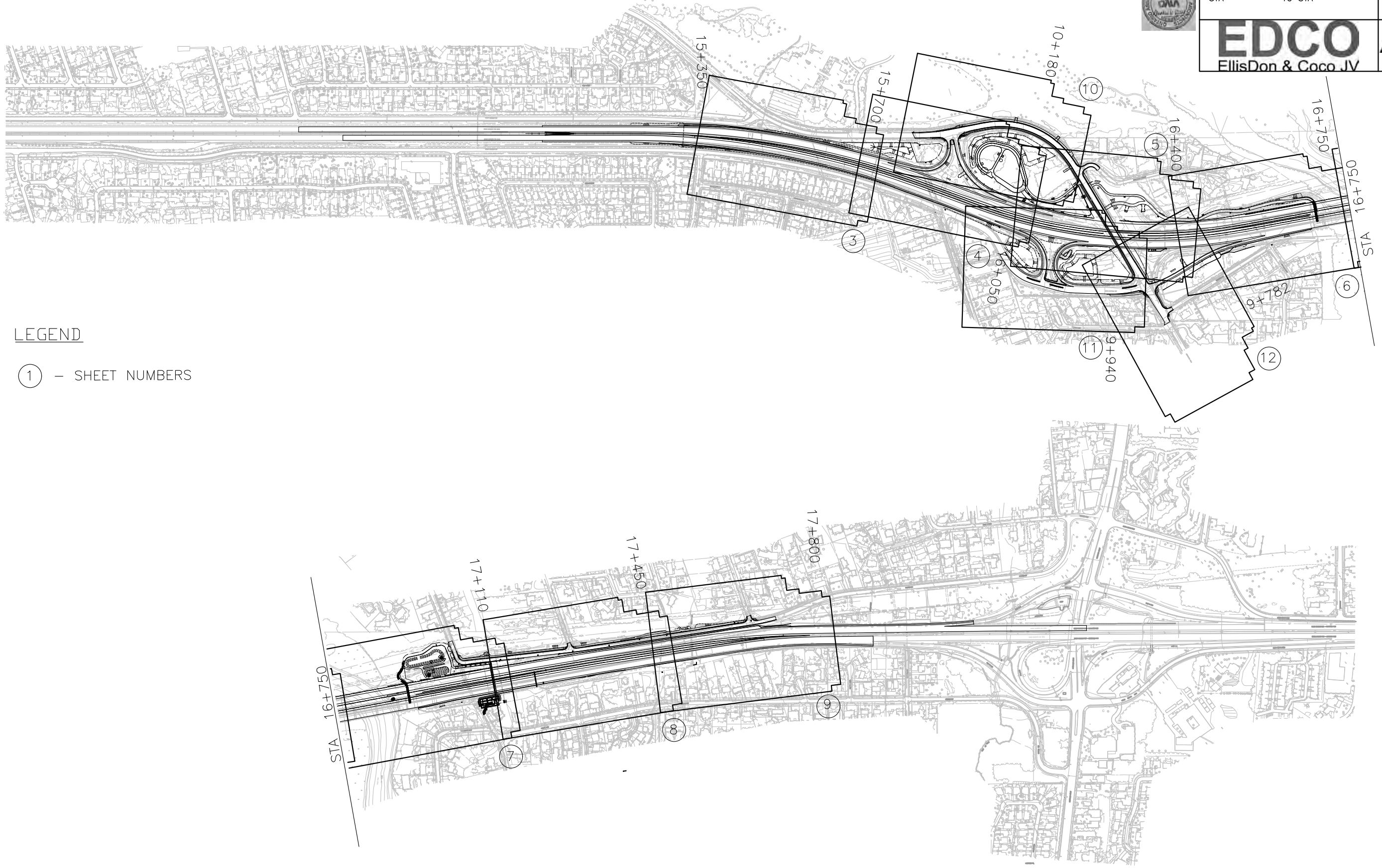
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SHEET No.	DESCRIPTION	REV	DATE
LND-000	LANDSCAPE – COVER SHEET	0	AUG 2021
LND-000-1	LANDSCAPE – INDEX	0	AUG 2021
LND-001	LANDSCAPE – KEY PLAN	0	AUG 2021
LND-002	LANDSCAPE – LEGEND AND NOTES	0	AUG 2021
LND-003	LANDSCAPE – STA 15+350 TO STA 15+700	0	AUG 2021
LND-004	LANDSCAPE – STA 15+700 TO STA 16+050	0	AUG 2021
LND-005	LANDSCAPE – STA 16+050 TO STA 16+400	0	AUG 2021
LND-006	LANDSCAPE – STA 16+400 TO STA 16+750	0	AUG 2021
LND-007	LANDSCAPE – STA 16+750 TO STA 17+110	0	AUG 2021
LND-008	LANDSCAPE – STA 17+110 TO STA 17+450	0	AUG 2021
LND-009	LANDSCAPE – STA 17+450 TO STA 17+800	0	AUG 2021
LND-010	LANDSCAPE – MISSISSAUGA ROAD – STA 10+180 TO STA 10+537	0	AUG 2021
LND-011	LANDSCAPE – SOUTH SHERIDAN WAY – STA 9+645 TO STA 9+940	0	AUG 2021
LND-012	LANDSCAPE – MISSISSAUGA ROAD – STA 9+782 TO STA 9+935	0	AUG 2021
LND-013	LANDSCAPE – WET POND	0	AUG 2021
LND-014	LANDSCAPE – DRY POND	0	AUG 2021
LND-015	LANDSCAPE – DETAILS I	0	AUG 2021
LND-016	LANDSCAPE – PLANT LISTS	0	AUG 2021
LND-017	LANDSCAPE – DETAILS II	0	AUG 2021
LND-018	LANDSCAPE – DETAILS III	0	AUG 2021

SHEET No.	DESCRIPTION	REV	DATE

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REV	DATE	DESCRIPTION

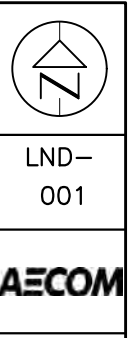
GWP 2006-21-00
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STA KEY PLAN TO STA

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LND-001

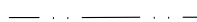

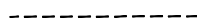
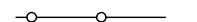

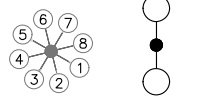
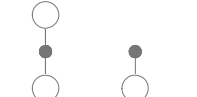










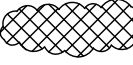




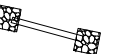


LEGEND

① - SHEET NUMBERS

NTS

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LEGEND	
	PROPERTY LINE
	MTD ROW
	ESTIMATE HONI CORRIDOR
	CHAINLINK FENCE
	EXISTING CHAINLINK FENCE
	PROPOSED LIGHT STANDARD
	EXISTING LIGHT STANDARD TO REMAIN UNLESS INDICATED OTHERWISE
	COMMEMORATIVE PLAQUE
	TRAIL HEAD SIGNAGE
	SLOPE
	EXISTING TREES
	EXISTING VEGETATION
	DECIDUOUS TREE
	CONIFEROUS TREE
	LARGE SHRUB/SMALL TREE
	SHRUB GROUP
	EMERGENT/SUBMERGENT PLANTING
	REFORESTATION/EDGE MANAGEMENT PLANTING WITH SEED MIX D - OSC WOODLAND MIX 8275
	SEED MIX A - STD. ROADSIDE MIX
	SEED MIX B - CVC 1 - UPLAND
	SEED MIX C - CVC 2 - LOWLAND
	SWALE
	CULVERT

NOTES:

- ALL DISTURBED AREAS TO BE RESTORED WITH MINIMUM 150mm DEEP TOPSOIL AND THE INDICATED SEED MIX.
- LARGE CALIPER TREES SHALL BE SPACED 10.0m ON CENTER, UNLESS INDICATED OTHERWISE, AND A MINIMUM OF 1.5m FROM THE MULTI-USE PATH/TRAIL EDGE. SEE STREETSCAPE PLANTING SETBACKS NOTE FOR FURTHER INFORMATION.
- THE QUANTITY OF STREET TREES ALONG MISSISSAUGA ROAD WILL BE EQUAL TO MEET AN AVERAGE SPACING OF 10.0m ON CENTER. HOWEVER, STREET TREES MAY BE PLACED IN GROUPINGS OF 3-5 TREES WITH A MINIMUM SPACING OF 8.0m ON CENTER.
- CONIFEROUS TREES SHALL BE PLANTED MINIMUM 4.0m ON CENTER, UNLESS INDICATED OTHERWISE ON THE MASTER PLANT LIST ON SHEET LND-016.
- ALL PLANTING WITHIN THE ESTIMATED HONI CORRIDOR SHALL BE AS PER THE HONI APPROVED PLANT LIST AND SHALL NOT EXCEED A MAXIMUM HEIGHT OF 4m AT MATURITY.

REV	DATE	DESCRIPTION

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LANDSCAPE LEGEND AND NOTES

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STREETSCAPE PLANTING SETBACKS:

- TREES SHOULD NOT BE PLANTED WITHIN SIGHT TRIANGLES.
- PROVIDE A MINIMUM 6.0m SETBACK BETWEEN THE LIGHT STANDARD AND THE PROPOSED TREE PLANTINGS.
- PROVIDE A MINIMUM SETBACK OF 1.5m BETWEEN THE TRUNK OF THE PROPOSED DECIDUOUS TREE AND EXISTING SURFACE INFRASTRUCTURE. FOR CONIFEROUS TREES, PROVIDE A MINIMUM 1.0m SETBACK BETWEEN INFRASTRUCTURE AND THE ESTIMATED DRIP LINE AT 15 YEARS. SETBACKS FROM UNDERGROUND AND OVERHEAD INFRASTRUCTURE SHALL BE AS PER UTILITY COMPANY REQUIREMENTS
- PROVIDE A MINIMUM 0.3m SETBACK BETWEEN THE TRUNK OF THE TREE AND THE NOISE WALL. WHERE NOISE WALLS ARE ABSENT AND PLANTING OF TREES ON PRIVATE PROPERTY IS NOT POSSIBLE, PROVIDE A MINIMUM 0.15m SETBACK BETWEEN THE TRUNK OF THE TREE AND THE PROPERTY LINE.
- PROVIDE A MINIMUM 1.0m SETBACK FROM THE EDGE OF SHRUB BEDS TO PEDESTRIAN SIDEWALKS OR MULTI-USE TRAILS TO ENSURE PEDESTRIAN SECURITY.

REV	DATE	DESCRIPTION

GWP 2006-21-00
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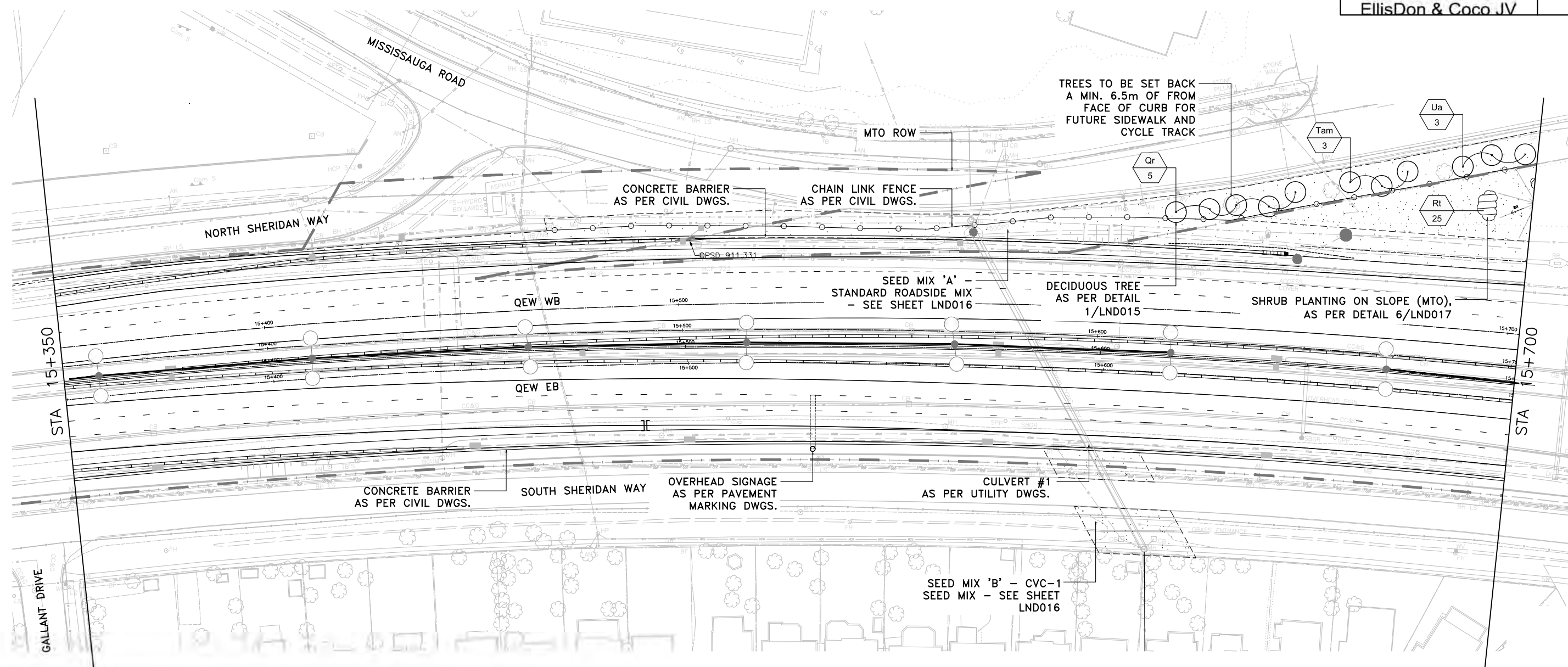


LANDSCAPE
STA 15+350 TO STA 15+700

LND-003

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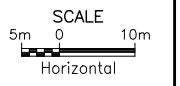
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Plant List - Sheet LND-003

Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Deciduous Trees						
5	Qr	<i>Quercus rubra</i>	Red Oak	60mm cal.	10m o.c.	WB
3	Tam	<i>Tilia americana</i>	Basswood	60mm cal.	10m o.c.	WB
3	Ua	<i>Ulmus americana</i>	American Elm	60mm cal.	10m o.c.	WB
Deciduous Shrubs						
25	Rt	<i>Rhus typhina</i>	Staghorn Sumac	600mm ht.	1.0m o.c.	CT

Note: Quantities in this list only account for plantings with in this sheet. See Master Plant List on sheet LND-016 project total quantities



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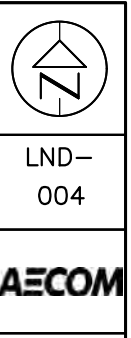
REV	DATE	DESCRIPTION

GWP 2006-21-00
CONT 2020-2150

LANDSCAPE
STA 15+700 TO STA 16+050

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FOREST RESTORATION AREA 1 PLANT LIST				
FR1	Botanical Name	Common Name	Size	(cm)
QUANTITIES 1385 sq.m.				
Deciduous Trees				
17	<i>Acer saccharinum</i>	Silver Maple	175-200	
17	<i>Amelanchier arborea</i>	Downy Serviceberry	175-200	
17	<i>Carya cordiformis</i>	Bitternut Hickory	175-200	
15	<i>Juglans nigra</i>	Black Walnut	175-200	
17	<i>Populus tremuloides</i>	Trembling Aspen	175-200	
Coniferous Trees				
17	<i>Picea glauca</i>	White Spruce	100-150	
10	<i>Pinus strobus</i>	Eastern White Pine	100-150	

FOREST RESTORATION AREA 2 PLANT LIST				
FR2	Botanical Name	Common Name	Size	(cm)
QUANTITIES 615 sq.m.				
Deciduous Trees				
12	<i>Amelanchier arborea</i>	Downy Serviceberry	175-200	
12	<i>Populus tremuloides</i>	Trembling Aspen	175-200	
12	<i>Quercus rubra</i>	Red Oak	175-200	
Coniferous Trees				
8	<i>Picea glauca</i>	White Spruce	100-150	
4	<i>Pinus strobus</i>	Eastern White Pine	100-150	

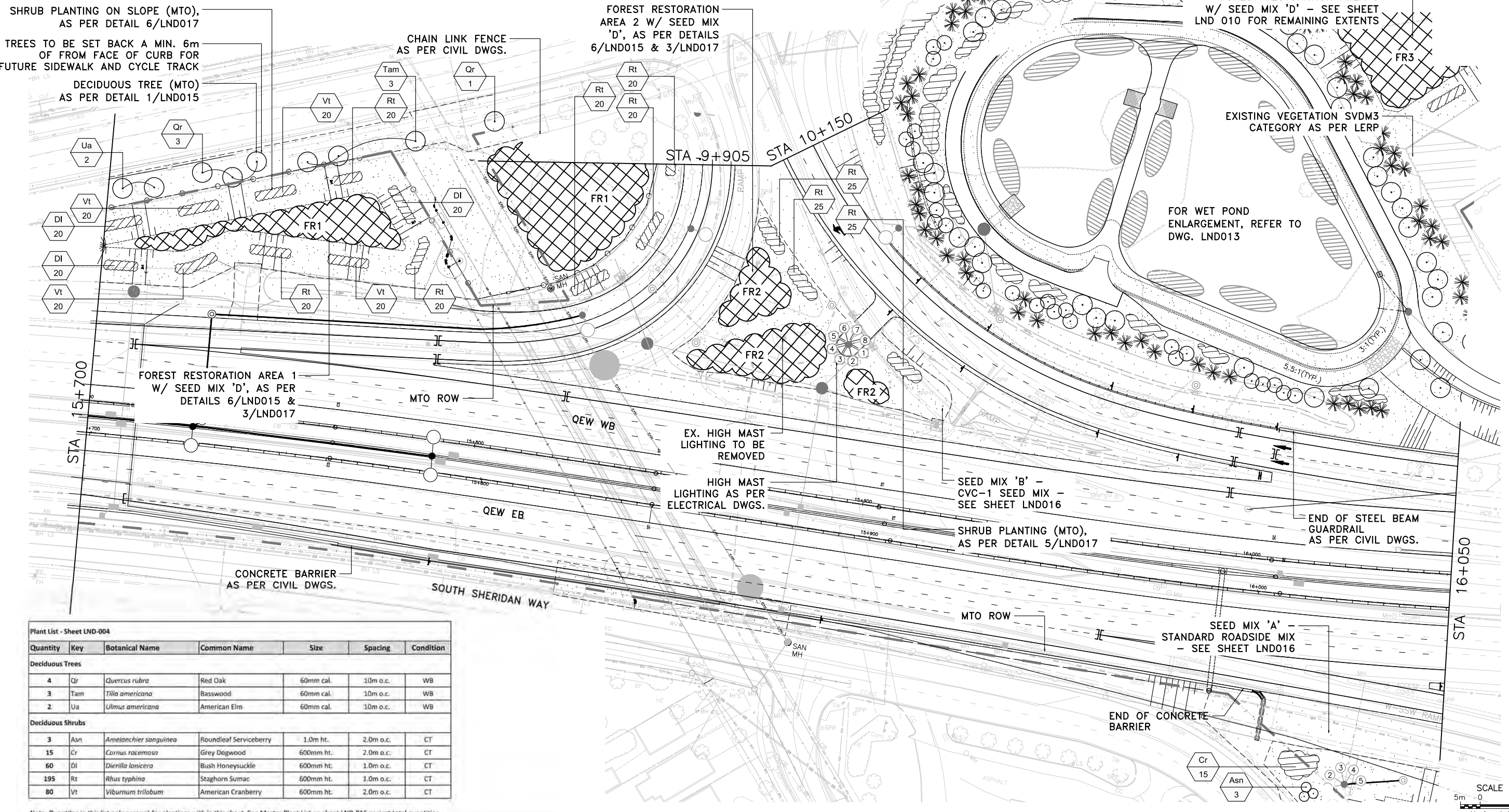
SHRUB PLANTING ON SLOPE (MTO),
AS PER DETAIL 6/LND017

TREES TO BE SET BACK A MIN. 6m
OF FROM FACE OF CURB FOR
FUTURE SIDEWALK AND CYCLE TRACK

DECIDUOUS TREE (MTO)
AS PER DETAIL 1/LND015

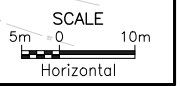
FOREST RESTORATION
AREA 2 W/ SEED MIX
'D', AS PER DETAILS
6/LND015 & 3/LND017

FOREST RESTORATION AREA 3
W/ SEED MIX 'D' - SEE SHEET
LND 010 FOR REMAINING EXTENTS



Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Deciduous Trees						
4	Qr	<i>Quercus rubra</i>	Red Oak	60mm cal.	10m o.c.	WB
3	Tam	<i>Tilia americana</i>	Basswood	60mm cal.	10m o.c.	WB
2	Ua	<i>Ulmus americana</i>	American Elm	60mm cal.	10m o.c.	WB
Deciduous Shrubs						
3	Asn	<i>Amelanchier sanguinea</i>	Roundleaf Serviceberry	1.0m ht.	2.0m o.c.	CT
15	Cr	<i>Cornus racemosa</i>	Grey Dogwood	600mm ht.	2.0m o.c.	CT
60	DI	<i>Dierilla lonicera</i>	Bush Honeysuckle	600mm ht.	1.0m o.c.	CT
195	Rt	<i>Rhus typhina</i>	Staghorn Sumac	600mm ht.	1.0m o.c.	CT
80	Vt	<i>Viburnum trilobum</i>	American Cranberry	600mm ht.	2.0m o.c.	CT

Note: Quantities in this list only account for plantings with in this sheet. See Master Plant List on sheet LND-016 project total quantities



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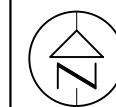
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FOREST RESTORATION AREA 4 PLANT LIST				
RF4 QUANTITIES	Botanical Name	Common Name	Size	(cm)
1415 sq.m.				
Deciduous Trees				
16	<i>Acer saccharum</i>	Sugar Maple	175-200	
16	<i>Carya cordiformis</i>	Bitternut Hickory	175-200	
16	<i>Juglans nigra</i>	Black Walnut	175-200	
16	<i>Populus tremuloides</i>	Trembling Aspen	175-200	
16	<i>Quercus rubra</i>	Red Oak	175-200	
Coniferous Trees				
16	<i>Picea glauca</i>	White Spruce	100-150	
11	<i>Pinus strobus</i>	Eastern White Pine	100-150	

PLANT LIST NOTE:
SEE SHEET LND006 FOR THE SHEET LND005 PLANT LIST.

REV	DATE	DESCRIPTION

GWP 2006-21-00
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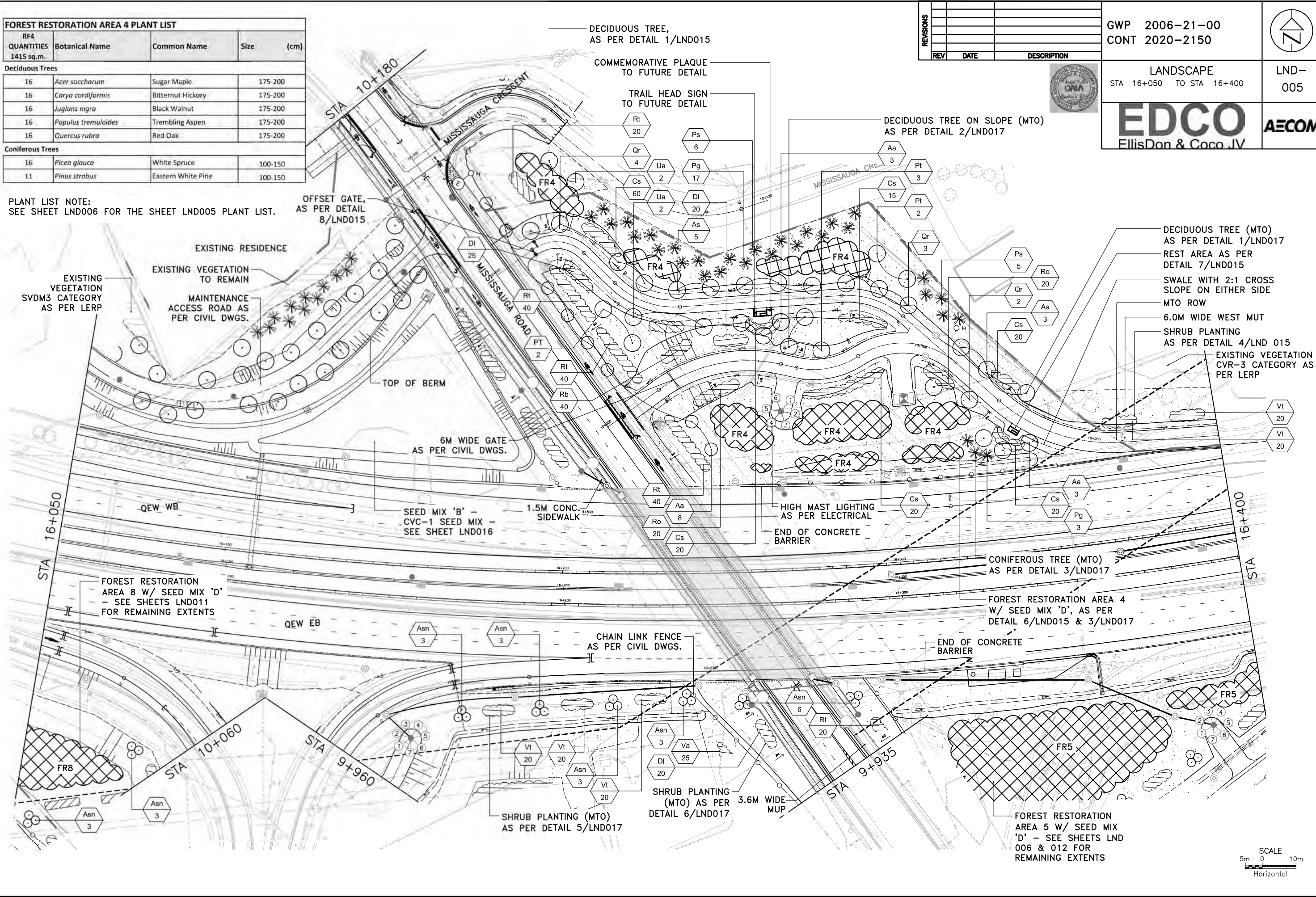


LANDSCAPE
STA 16+050 TO STA 16+400

LND-005

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Plant List - Sheet LND-006

Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Coniferous Trees						
8	Pg	<i>Picea glauca</i>	White Spruce	1.5m ht.	4m o.c.	WB
Deciduous Shrubs						
9	Asn	<i>Amelanchier sanguinea</i>	Roundleaf Serviceberry	1.0m ht.	2.0m o.c.	CT
53	Cs	<i>Cornus sericea</i>	Red Osier Dogwood	600mm ht.	1.0m o.c.	CT
125	Cr	<i>Cornus racemosa</i>	Grey Dogwood	600mm ht.	2.0m o.c.	CT
45	DI	<i>Dierilla lanicera</i>	Bush Honeysuckle	600mm ht.	1.0m o.c.	CT
100	Rt	<i>Rhus typhina</i>	Staghorn Sumac	600mm ht.	1.0m o.c.	CT
50	Vt	<i>Viburnum trilobum</i>	American Cranberry	600mm ht.	2.0m o.c.	CT

Plant List - Sheet LND-006

Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Coniferous Shrubs						
60	Tac	<i>Taxus canadensis</i>	Canadian Yew	500mm ht.	1.0m o.c.	CT
Emergent, Submergent, & Floating						
180	Sm	<i>Scirpus microcarpus</i>	Red-Tinged Bulrush	1 gal pot	0.6m o.c.	CT
150	TI	<i>Typha latifolia</i>	Broad-leaf Cattail	1 gal pot	0.6m o.c.	CT
Vines						
150	Csc	<i>Celestrus scandens</i>	Climbing Bittersweet	1 gal pot	1.0m o.c.	CT

Note: Quantities in this list only account for plantings with in this sheet. See Master Plant List on sheet LND-016 project total quantities

REV	DATE	DESCRIPTION

GWP 2006-21-00
CONT 2020-2150

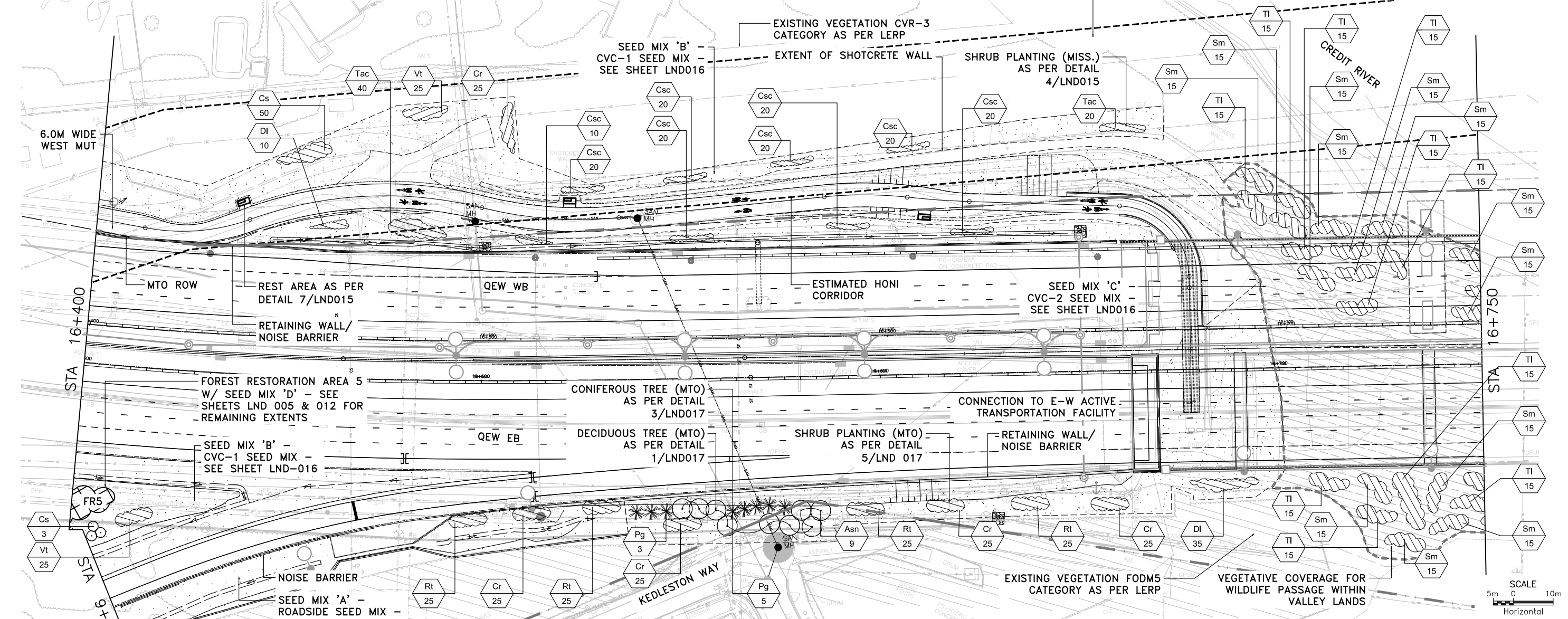


LANDSCAPE
STA 16+400 TO STA 16+750

LND-006

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Plant List - Sheet LND-005

Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Deciduous Trees						
8	As	<i>Acer saccharum</i>	Sugar Maple	60mm cal.	10m o.c.	WB
14	Aa	<i>Amelanchier arborea</i>	Downy Serviceberry	2m ht.	3m o.c.	B&B
55	Cc	<i>Carya cordiformis</i>	Bitternut Hickory	2m ht.	3m o.c.	B&B
7	Pt	<i>Populus tremuloides</i>	Trembling Aspen	2m ht.	3m o.c.	B&B
9	Qr	<i>Quercus rubra</i>	Red Oak	60mm cal.	10m o.c.	WB
4	Ua	<i>Ulmus americana</i>	American Elm	60mm cal.	10m o.c.	WB
Coniferous Trees						
20	Pg	<i>Picea glauca</i>	White Spruce	1.5m ht.	4m o.c.	WB
11	Ps	<i>Pinus strobus</i>	Eastern White Pine	1.5m ht.	4m o.c.	WB

Plant List - Sheet LND-005

Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Deciduous Shrubs						
24	Asn	<i>Amelanchier sanguinea</i>	Roundleaf Serviceberry	1.0m ht.	2.0m o.c.	CT
155	Cs	<i>Cornus sericea</i>	Red Osier Dogwood	600mm ht.	1.0m o.c.	CT
105	DI	<i>Dierilla lanicera</i>	Bush Honeysuckle	600mm ht.	1.0m o.c.	CT
160	Rt	<i>Rhus typhina</i>	Staghorn Sumac	600mm ht.	1.0m o.c.	CT
40	Rb	<i>Rosa blanda</i>	Meadow Rose	600mm ht.	1.0m o.c.	CT
40	Ro	<i>Rubus occidentalis</i>	Black Raspberry	600mm ht.	1.0m o.c.	CT
25	Va	<i>Viburnum acerifolium</i>	Maple-leaf Viburnum	600mm ht.	2.0m o.c.	CT
60	Vt	<i>Viburnum trilobum</i>	American Cranberry	600mm ht.	2.0m o.c.	CT

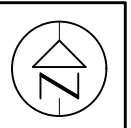
Note: Quantities in this list only account for plantings with in this sheet. See Master Plant List on sheet LND-016 project total quantities

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CONT 2020-2150

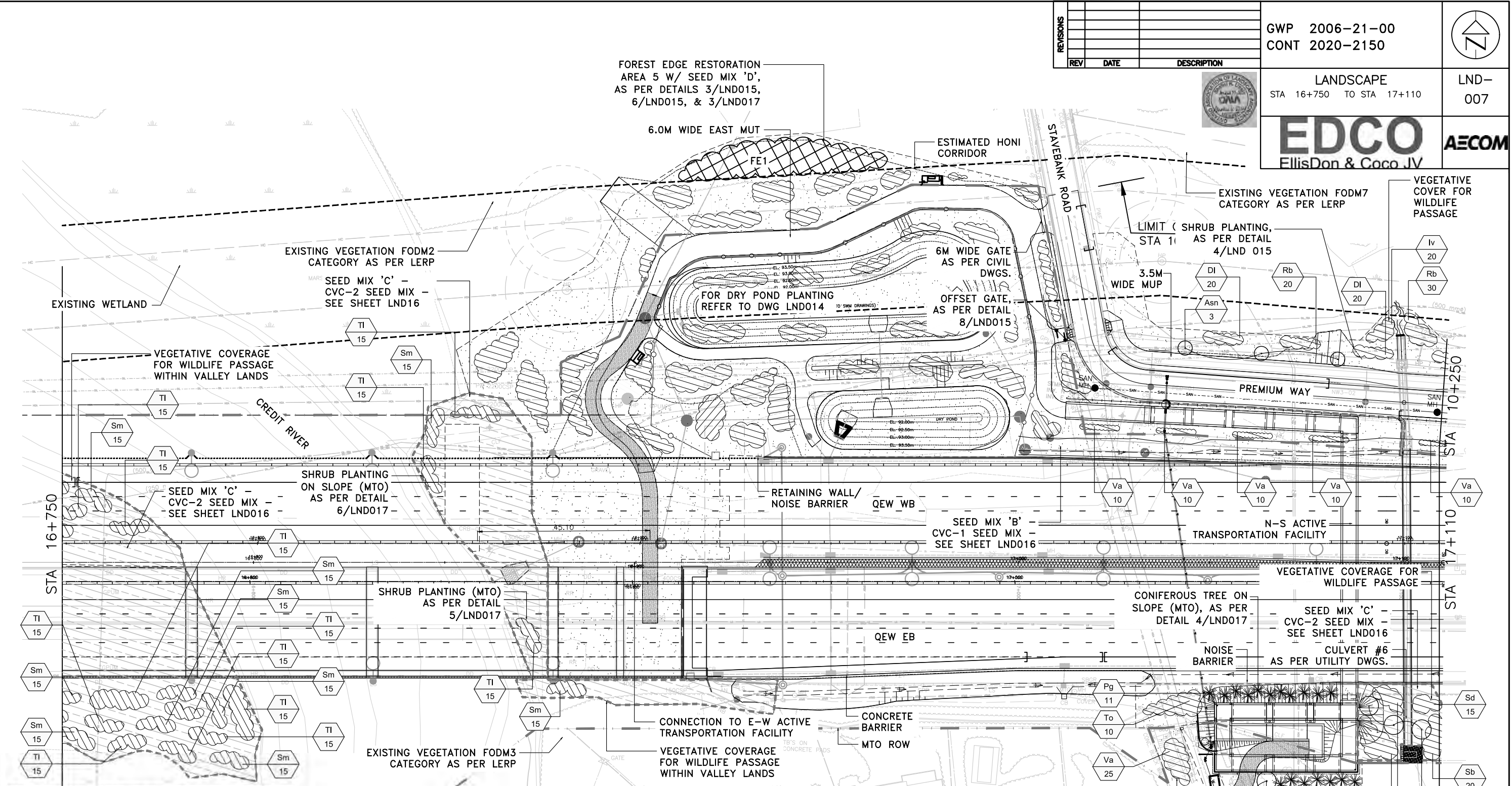


LANDSCAPE
STA 16+750 TO STA 17+110

LND-007

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FE1 QUANTITIES	Botanical Name	Common Name	Size (cm)
400 sq.m.			
Deciduous Trees			
4	<i>Acer saccharum</i>	Sugar Maple	175-200
4	<i>Crataegus pedicellate</i>	Scarlet Hawthorn	175-200
Coniferous Trees			
8	<i>Picea glauca</i>	White Spruce	100-150
8	<i>Thuja occidentalis</i>	Eastern White Cedar	100-150
Small Deciduous Trees			
12	<i>Amelanchier sanguinea</i>	Roundleaf Serviceberry	80-125
12	<i>Amelanchier spicata</i>	Low Serviceberry	80-125
Deciduous Shrubs			
25	<i>Dierilla lonicera</i>	Bush Honeysuckle	50-60
30	<i>Rosa blanda</i>	Meadow Rose	50-60
30	<i>Rubus occidentalis</i>	Black Raspberry	50-60

Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Deciduous Trees						
3	Pgr	<i>Populus grandidentata</i>	Largetooth Aspen	2m ht.	3m o.c.	B&B
3	Pt	<i>Populus tremuloides</i>	Trembling Aspen	2m ht.	3m o.c.	B&B
Coniferous Trees						
18	Pg	<i>Picea glauca</i>	White Spruce	1.5m ht.	4m o.c.	WB
10	Tu	<i>Thuja occidentalis</i>	Eastern White Cedar	1.0m ht.	2.0m o.c.	B&B
Deciduous Shrubs						
3	Asn	<i>Amelanchier sanguinea</i>	Roundleaf Serviceberry	1.0m ht.	2.0m o.c.	CT
40	DI	<i>Dierilla lonicera</i>	Bush Honeysuckle	600mm ht.	1.0m o.c.	CT
20	Iv	<i>Ilex verticillata</i>	Winterberry	600mm ht.	1.0m o.c.	CT
50	Rb	<i>Rosa blanda</i>	Meadow Rose	600mm ht.	1.0m o.c.	CT
35	Sd	<i>Salix discolor</i>	Pussy Willow	600mm ht.	2.0m o.c.	CT
50	Sb	<i>Salix bebbiana</i>	Bebb's Willow	600mm ht.	2.0m o.c.	CT

Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
75	Va	<i>Viburnum acerifolium</i>	Maple-leaf Viburnum	600mm ht.	2.0m o.c.	CT
Emergent, Submergent, & Floating						
135	Sm	<i>Scirpus microcarpus</i>	Red-Tinged Bulrush	1 gal pot	0.6m o.c.	CT
180	Tl	<i>Typha latifolia</i>	Broad-leaf Cattail	1 gal pot	0.6m o.c.	CT

Note: Quantities in this list only account for plantings within this sheet. See Master Plant List on sheet LND-016 project total quantities.

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 MINISTRY OF TRANSPORTATION, ONTARIO
 ANS-D
 2016

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Plant List - Sheet LND-008

Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Deciduous Shrubs						
13	Asn	<i>Amelanchier sanguinea</i>	Roundleaf Serviceberry	1.0m ht.	2.0m o.c.	CT
110	DI	<i>Dierilla lonicera</i>	Bush Honeysuckle	600mm ht.	1.0m o.c.	CT
20	Iv	<i>Ilex verticillata</i>	Winterberry	600mm ht.	1.0m o.c.	CT
100	Rb	<i>Rosa blanda</i>	Meadow Rose	600mm ht.	1.0m o.c.	CT
60	Va	<i>Viburnum acerifolium</i>	Maple-leaf Viburnum	600mm ht.	2.0m o.c.	CT

Vines

70	Csc	<i>Celestrus scandens</i>	Climbing Bittersweet	1 gal pot	1.0m o.c.	CT
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Note: Quantities in this list only account for plantings with in this sheet. See Master Plant List on sheet LND-016 project total quantities

REV	DATE	DESCRIPTION

GWP 2006-21-00
CONT 2020-2150

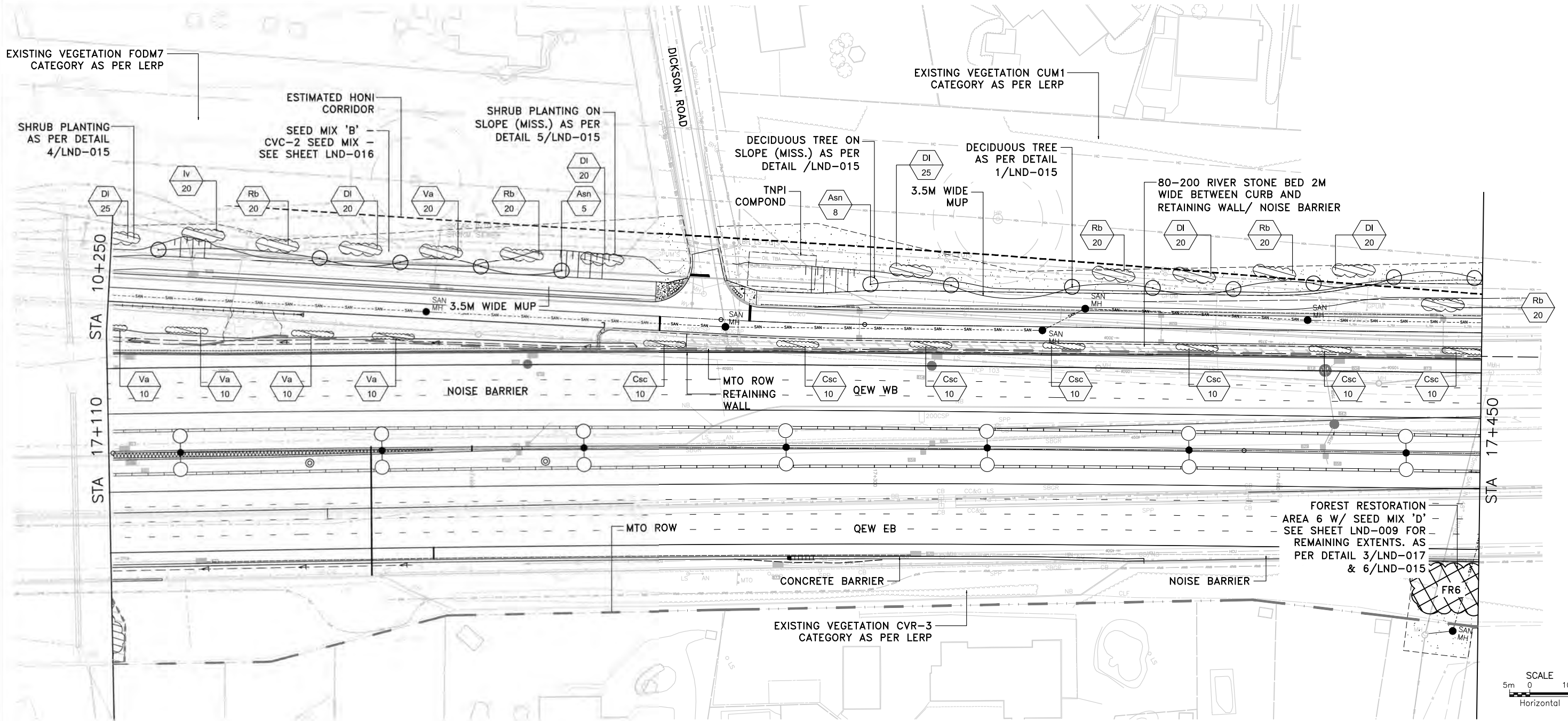


LANDSCAPE
STA 17+110 TO STA 17+450

LND-008

EDCO
EllisDon & Coco JV

AECOM



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REV	DATE	DESCRIPTION

GWP 2006-21-00
CONT 2020-2150

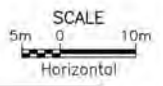
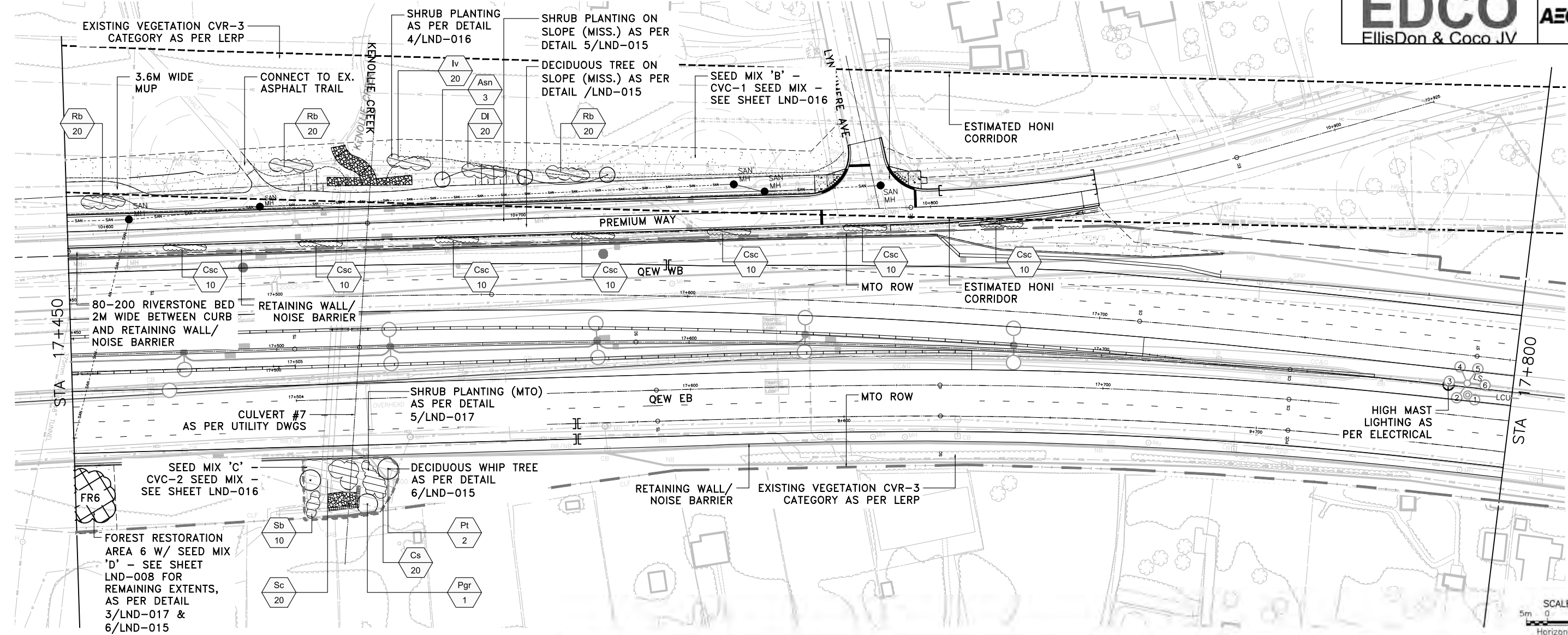


LANDSCAPE
STA 17+450 TO STA 17+800

LND-009

EDCO
EllisDon & Coco JV

AECOM



Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Deciduous Trees						
1	Pgr	<i>Populus grandidentata</i>	Large-toothed Aspen	2m ht.	3m o.c.	B&B
1	Pt	<i>Populus tremulaoides</i>	Trembling Aspen	2m ht.	3m o.c.	B&B
Deciduous Shrubs						
3	Asn	<i>Amelanchier sanguinea</i>	Roundleaf Serviceberry	1.0m ht.	2.0m o.c.	CT
20	Cs	<i>Cornus sericea</i>	Red Osier Dogwood	600mm ht.	1.0m o.c.	CT
20	DI	<i>Dierilla lonicera</i>	Bush Honeysuckle	600mm ht.	1.0m o.c.	CT
20	Iv	<i>Ilex verticillata</i>	Winterberry	600mm ht.	1.0m o.c.	CT
60	Rb	<i>Rosa blanda</i>	Meadow Rose	600mm ht.	1.0m o.c.	CT
10	Sb	<i>Salix bebbiana</i>	Bebb's Willow	600mm ht.	2.0m o.c.	CT
20	Sc	<i>Sambucus canadensis</i>	American Elder	600mm ht.	1.0m o.c.	CT
Vines						
70	Csc	<i>Celastrus scandens</i>	Climbing Bittersweet	1 gal pot	1.0m o.c.	CT

Note: Quantities in this list only account for plantings with in this sheet. See Master Plant List on sheet LND-016 project total quantities

FR6 QUANTITIES	Botanical Name	Common Name	Size (cm)
300 sq.m.			
Deciduous Trees			
6	<i>Acer saccharinum</i>	Silver Maple	175-200
6	<i>Populus tremulaoides</i>	Trembling Aspen	175-200
6	<i>Quercus rubra</i>	Red Oak	175-200
Coniferous Trees			
6	<i>Picea glauca</i>	White Spruce	100-150

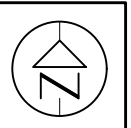
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MINISTRY OF TRANSPORTATION, ONTARIO
ANSI-D 2016

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REV	DATE	DESCRIPTION

GWP 2006-21-00
CONT 2020-2150

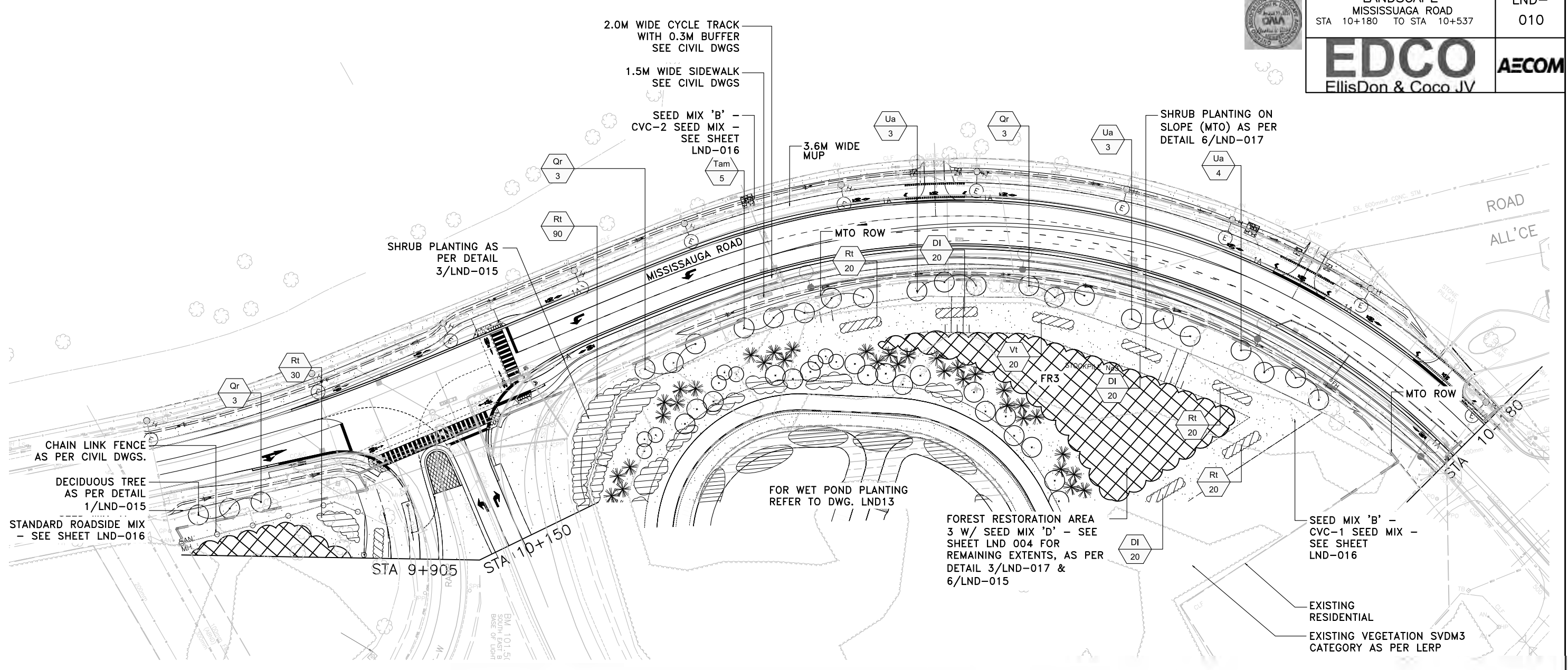


LANDSCAPE
MISSISSAUGA ROAD
STA 10+180 TO STA 10+537

LND-010

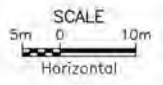
EDCO
EllisDon & Coco JV

AECOM



Plant List - Sheet LND-010						
Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Deciduous Trees						
9	Qr	<i>Quercus rubra</i>	Red Oak	60mm cal.	10m o.c.	WB
5	Tam	<i>Tilia americana</i>	Basswood	60mm cal.	10m o.c.	WB
10	Ua	<i>Ulmus americana</i>	American Elm	60mm cal.	10m o.c.	WB
Deciduous Shrubs						
60	DI	<i>Dierilla lonicera</i>	Bush Honeysuckle	600mm ht.	1.0m o.c.	CT
180	Rt	<i>Rhus typhina</i>	Staghorn Sumac	600mm ht.	1.0m o.c.	CT
20	Vt	<i>Viburnum trilobum</i>	American Cranberry	600mm ht.	2.0m o.c.	CT

FOREST RESTORATION AREA 3 PLANT LIST			
FR3 QUANTITIES	Botanical Name	Common Name	Size (cm)
1400 sq.m.			
Deciduous Trees			
17	<i>Acer saccharum</i>	Sugar Maple	175-200
17	<i>Carya cordiformis</i>	Bitternut Hickory	175-200
16	<i>Juglans nigra</i>	Black Walnut	175-200
17	<i>Populus tremuloides</i>	Trembling Aspen	175-200
17	<i>Quercus rubra</i>	Red Oak	175-200
Coniferous Trees			
18	<i>Picea glauca</i>	White Spruce	100-150
10	<i>Pinus strobus</i>	Eastern White Pine	100-150

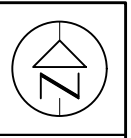


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 MINISTRY OF TRANSPORTATION, ONTARIO

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REV	DATE	DESCRIPTION
0		

GWP 2006-21-00
CONT 2020-2150

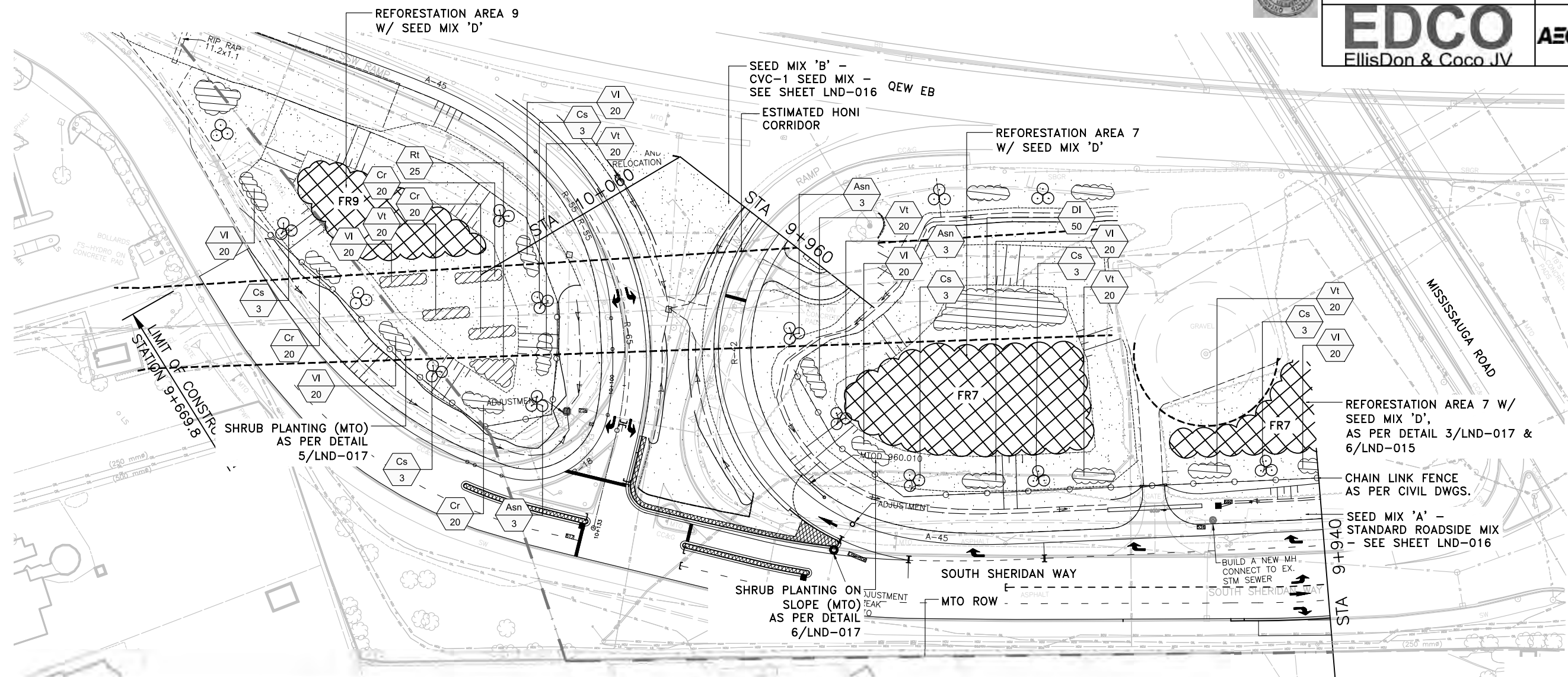


LANDSCAPE
SOUTH SHERIDAN WAY
STA 9+645 TO STA 9+940

LND-011

EDCO
EllisDon & Coco JV

AECOM



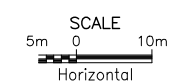
Plant List - Sheet LND-011

Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Deciduous Shrubs						
9	Asn	<i>Amelanchier sanguinea</i>	Roundleaf Serviceberry	1.0m ht.	2.0m o.c.	CT
15	Cs	<i>Cornus sericea</i>	Red Osier Dogwood	600mm ht.	1.0m o.c.	CT
80	Cr	<i>Cornus racemosa</i>	Grey Dogwood	600mm ht.	2.0m o.c.	CT
50	DI	<i>Dierilla lonicera</i>	Bush Honeysuckle	600mm ht.	1.0m o.c.	CT
25	Rt	<i>Rhus typhina</i>	Staghorn Sumac	600mm ht.	1.0m o.c.	CT
140	VI	<i>Viburnum lentago</i>	Nannyberry	600mm ht.	2.0m o.c.	CT
100	Vt	<i>Viburnum trilobum</i>	American Cranberry	600mm ht.	2.0m o.c.	CT

Note: Quantities in this list only account for plantings with in this sheet. See Master Plant List on sheet LND-016 project total quantities

FOREST RESTORATION AREA 9 PLANT LIST

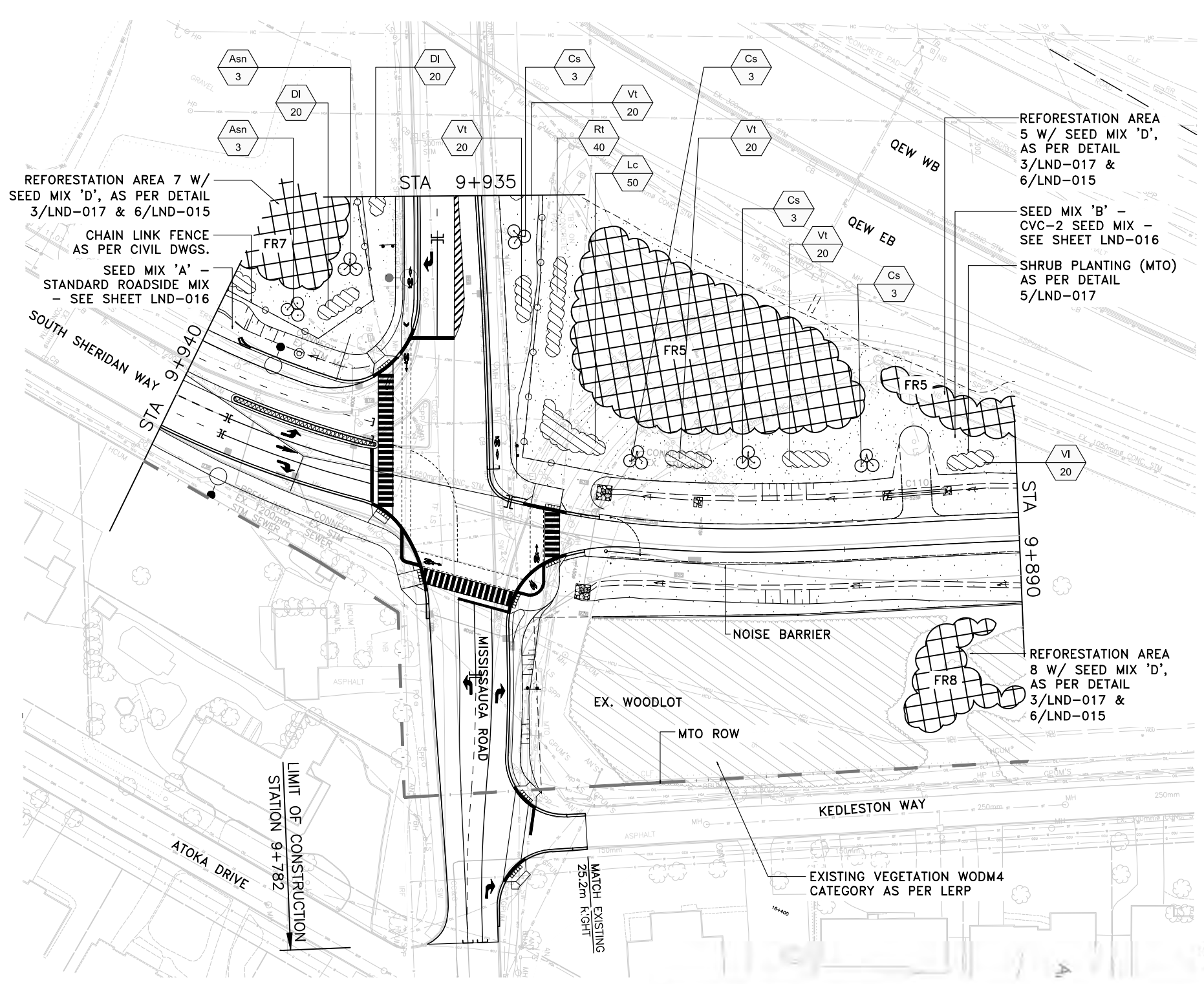
FR9 QUANTITIES	Botanical Name	Common Name	Size (cm)
Deciduous Trees			
7	<i>Acer saccharinum</i>	Silver Maple	175-200
7	<i>Amelanchier arborea</i>	Downy Serviceberry	175-200
7	<i>Carya cordiformis</i>	Bitternut Hickory	175-200
5	<i>Juglans nigra</i>	Black Walnut	175-200
7	<i>Quercus rubra</i>	Red Oak	175-200
Coniferous Trees			
7	<i>Picea glauca</i>	White Spruce	100-150
4	<i>Pinus strobus</i>	Eastern White Pine	100-150



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 MINISTRY OF TRANSPORTATION, ONTARIO
 ANS-D
 2016



REFORESTATION AREA 7 W/
 SEED MIX 'D', AS PER DETAIL
 3/LND-017 & 6/LND-015
 CHAIN LINK FENCE
 AS PER CIVIL DWGS.
 SEED MIX 'A' -
 STANDARD ROADSIDE MIX
 - SEE SHEET LND-016

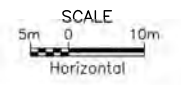
REFORESTATION AREA
 5 W/ SEED MIX 'D',
 AS PER DETAIL
 3/LND-017 &
 6/LND-015

SEED MIX 'B' -
 CVC-2 SEED MIX -
 SEE SHEET LND-016

SHRUB PLANTING (MTO)
 AS PER DETAIL
 5/LND-017

REFORESTATION AREA
 8 W/ SEED MIX 'D',
 AS PER DETAIL
 3/LND-017 &
 6/LND-015

EXISTING VEGETATION WODM4
 CATEGORY AS PER LERP



REVISIONS REV DATE DESCRIPTION		GWP 2006-21-00 CONT 2020-2150	
		LANDSCAPE MISSISSAUGA ROAD STA 9+782 TO STA 9+935	LND-012

FOREST RESTORATION AREA 5 PLANT LIST

FR5 QUANTITIES 1900 sq.m.	Botanical Name	Common Name	Size (cm)
Deciduous Trees			
23	<i>Acer saccharinum</i>	Silver Maple	175-200
23	<i>Amelanchier arborea</i>	Downy Serviceberry	175-200
23	<i>Carya cordiformis</i>	Bitternut Hickory	175-200
22	<i>Juglans nigra</i>	Black Walnut	175-200
23	<i>Populus grandidentata</i>	Largetooth Aspen	175-200
Coniferous Trees			
23	<i>Picea glauca</i>	White Spruce	100-150
15	<i>Pinus strobus</i>	Eastern White Pine	100-150

FOREST RESTORATION AREA 7 PLANT LIST

FR7 QUANTITIES 1905 sq.m.	Botanical Name	Common Name	Size (cm)
Deciduous Trees			
23	<i>Acer saccharinum</i>	Silver Maple	175-200
23	<i>Amelanchier arborea</i>	Downy Serviceberry	175-200
23	<i>Carya cordiformis</i>	Bitternut Hickory	175-200
22	<i>Juglans nigra</i>	Black Walnut	175-200
23	<i>Quercus rubra</i>	Red Oak	175-200
Coniferous Trees			
23	<i>Picea glauca</i>	White Spruce	100-150
15	<i>Pinus strobus</i>	Eastern White Pine	100-150

FOREST RESTORATION AREA 8 PLANT LIST

FR8 QUANTITIES 290 sq.m.	Botanical Name	Common Name	Size (cm)
Deciduous Trees			
6	<i>Acer saccharum</i>	Sugar Maple	175-200
6	<i>Populus deltoides</i>	Cottonwood	175-200
6	<i>Ulmus americana</i>	American Elm	175-200
Coniferous Trees			
4	<i>Picea glauca</i>	White Spruce	100-150
2	<i>Pinus strobus</i>	Eastern White Pine	100-150

Plant List - Sheet LND-012

Quantity	Key	Botanical Name	Common Name	Size	Spacing	Condition
Deciduous Shrubs						
6	Asn	<i>Amelanchier sanguinea</i>	Roundleaf Serviceberry	1.0m ht.	2.0m o.c.	CT
12	Cs	<i>Cornus sericea</i>	Red Osier Dogwood	600mm ht.	1.0m o.c.	CT
40	DI	<i>Dierilla lonicera</i>	Bush Honeysuckle	600mm ht.	1.0m o.c.	CT
50	Lc	<i>Lonicera canadensis</i>	Dry Fly Honeysuckle	600mm ht.	1.0m o.c.	CT
40	Rt	<i>Rhus typhina</i>	Staghorn Sumac	600mm ht.	1.0m o.c.	CT
20	VI	<i>Viburnum lentago</i>	Nannyberry	600mm ht.	2.0m o.c.	CT
80	Vt	<i>Viburnum trilobum</i>	American Cranberry	600mm ht.	2.0m o.c.	CT

Note: Quantities in this list only account for plantings with in this sheet. See Master Plant List on sheet LND-016 project total quantities

PLANT LIST NOTE:
SEE SHEET LND018 FOR THE SHEET LND013 PLANT LIST.

SWM POND NOTE:
SEE DETAIL 1/LND018 FOR WET POND PLANTING STRATEGY.

REV	DATE	DESCRIPTION
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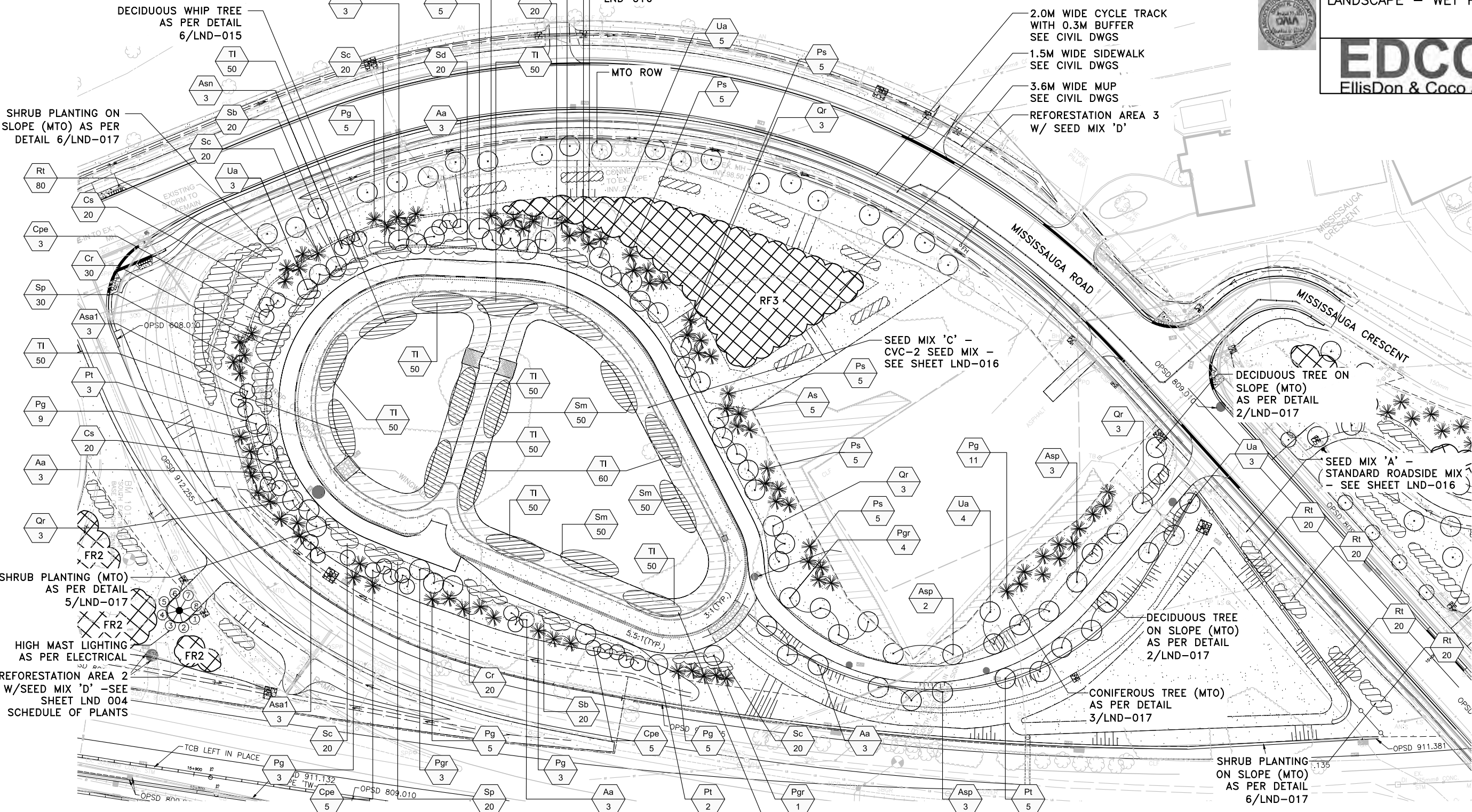
GWP 2006-21-00
CONT 2020-2150



LANDSCAPE - WET POND
LND-013



2016
ANSI-D
MINISTRY OF TRANSPORTATION, ONTARIO
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2.0M WIDE CYCLE TRACK WITH 0.3M BUFFER
SEE CIVIL DWGS

1.5M WIDE SIDEWALK
SEE CIVIL DWGS

3.6M WIDE MUP
SEE CIVIL DWGS

REFORESTATION AREA 3
W/ SEED MIX 'D'

SEED MIX 'C' -
CVC-2 SEED MIX -
SEE SHEET LND-016

DECIDUOUS TREE ON SLOPE (MTO)
AS PER DETAIL
2/LND-017

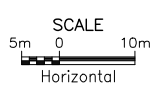
SEED MIX 'A' -
STANDARD ROADSIDE MIX -
SEE SHEET LND-016

DECIDUOUS TREE ON SLOPE (MTO)
AS PER DETAIL
2/LND-017

CONIFEROUS TREE (MTO)
AS PER DETAIL
3/LND-017

SHRUB PLANTING ON SLOPE (MTO)
AS PER DETAIL
6/LND-017

AQUATIC PLANTING (MTO)
AS PER DETAIL
3/LND-018



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PLANT LIST NOTE:
SEE SHEET LND018 FOR THE SHEET LND014 PLANT LIST.

SWM POND NOTE:
SEE DETAIL 1/LND018 FOR DRY POND PLANTING STRATEGY.

FOREST EDGE RESTORATION
AREA W/ SEED MIX 'D'

REST AREA AS
PER DETAIL 7/LND
015

COMMEMORATIVE
PLAQUE TO
FUTURE DETAIL

TRAIL HEAD SIGN
TO FUTURE DETAIL
6.0M WIDE EAST MUT

REV	DATE	DESCRIPTION

GWP 2006-21-00
CONT 2020-2150

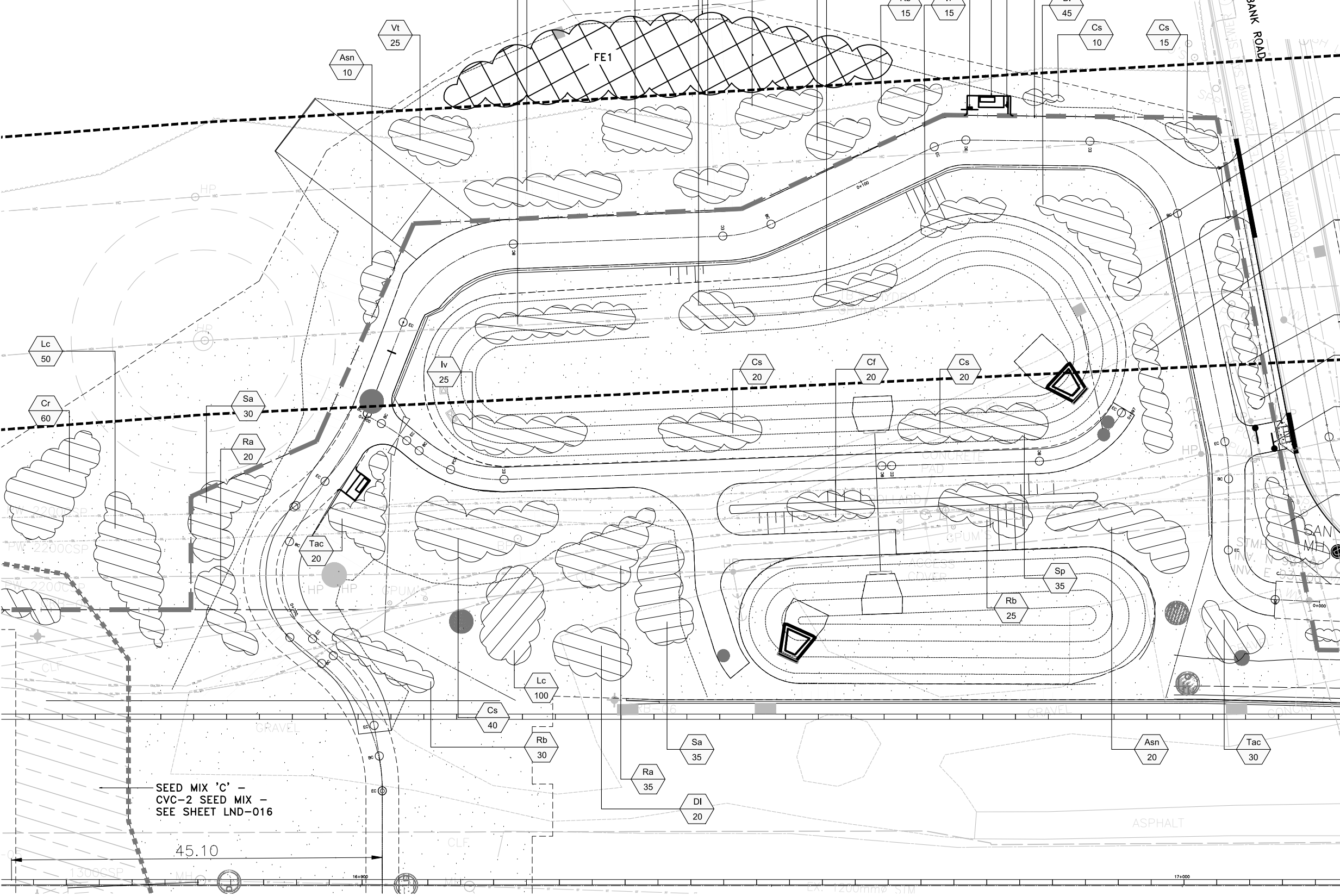


LANDSCAPE - DRY POND

LND-014

EDCO
EllisDon & Coco JV

AECOM



- HONI GATE
- SEED MIX 'B' - CYC-1
SEED MIX - SEE SHEET
LND-016
- SHRUB PLANTING ON SLOPE (MTO)
AS PER DETAIL
6/LND-017

Cs 35

Cs 25

- SHRUB PLANTING (MTO)
AS PER DETAIL
5/LND-017

- OFFSET GATES,
AS PER DETAIL
8/LND015

Cr 25

SEED MIX 'C' -
CYC-2 SEED MIX -
SEE SHEET LND-016

45.10

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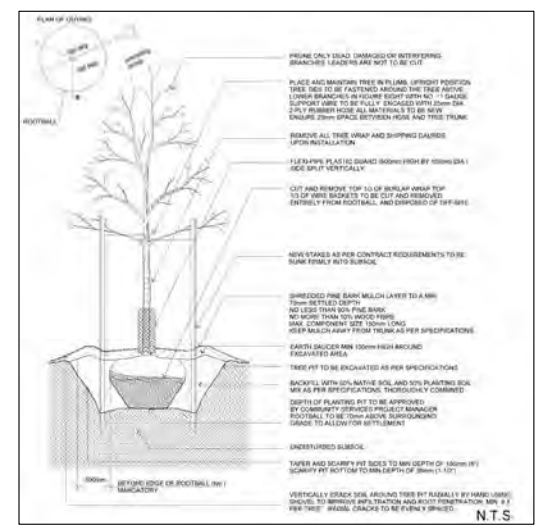
GWP 2006-21-00
 CONT 2020-2150



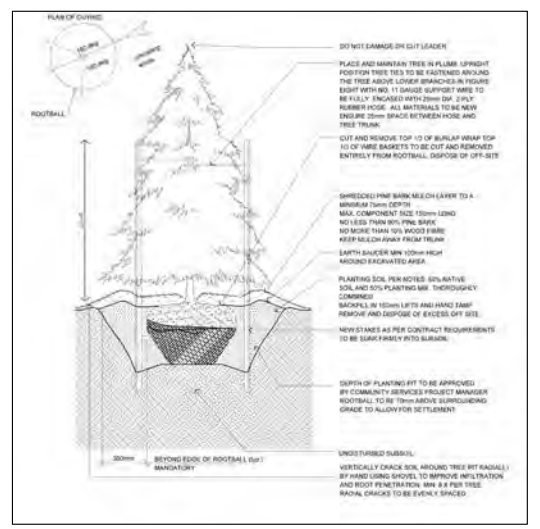
LANDSCAPE - DETAILS I
 LND-015

EDCO
 EllisDon & Coco JV

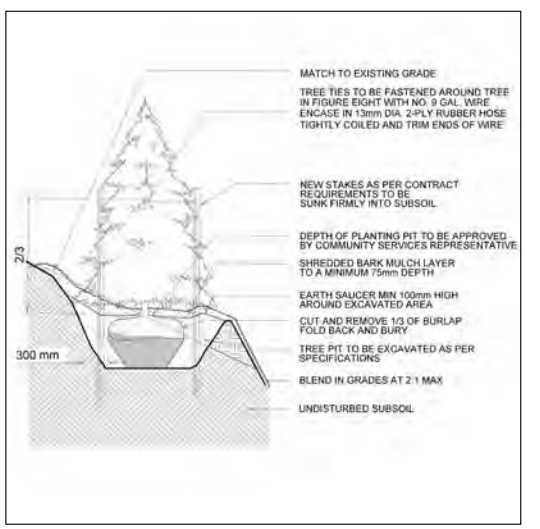
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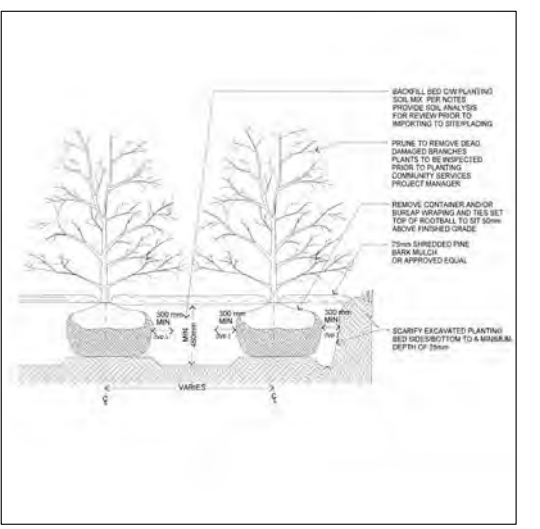
DECIDUOUS TREE
 (CITY OF MISSISSAUGA)
 NTS
 1
 X-XXX



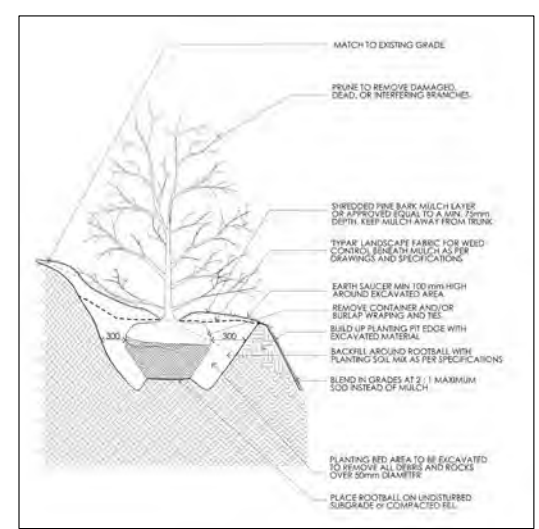
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 (CITY OF MISSISSAUGA)
 NTS
 2
 X-XXX



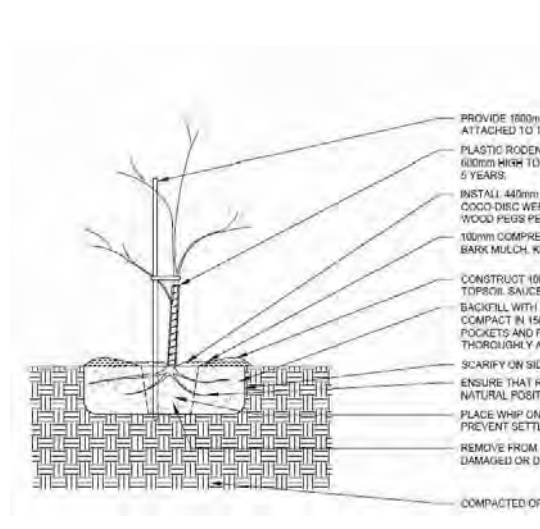
CONIFEROUS TREE ON SLOPE
 (CITY OF MISSISSAUGA)
 NTS
 3
 X-XXX



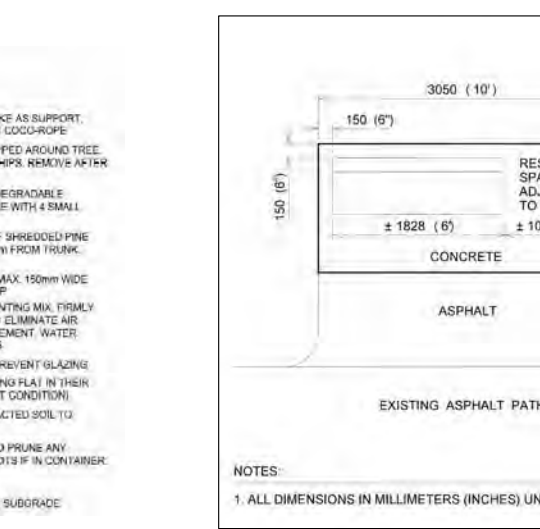
SHRUB PLANTING
 (CITY OF MISSISSAUGA)
 NTS
 4
 X-XXX



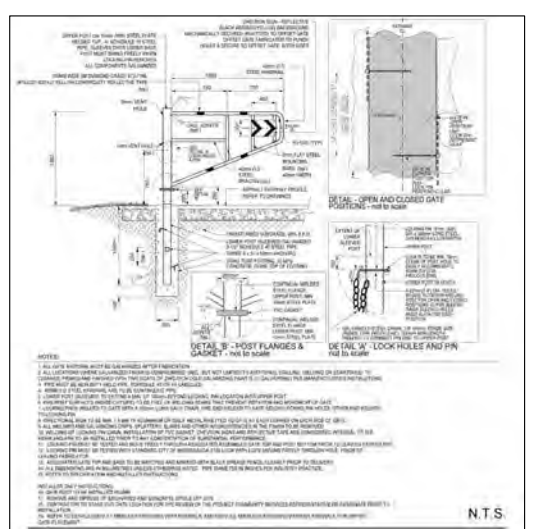
SHRUB PLANTING ON SLOPE
 (CITY OF MISSISSAUGA)
 NTS
 5
 X-XXX



DECIDUOUS WHIP TREE
 NTS
 6
 X-XXX



REST AREA
 NTS
 7
 X-XXX



OFFSET GATES
 NTS
 8
 X-XXX

NTS

NTS

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REV	DATE	DESCRIPTION

GWP 2006-21-00
 CONT 2020-2150



LANDSCAPE-PLANT LISTS

LND-016



EDCO
 EllisDon & Coco JV

AECOM

Key	Botanical Name	Common Name	Size	Spacing	Condition
Master Plant List					
Deciduous Trees					
As	<i>Acer saccharum</i>	Sugar Maple	60mm cal.	10m o.c.	WB
As1	<i>Acer saccharum</i>	Sugar Maple	2m ht.	3m o.c.	B&B
Asa	<i>Acer saccharinum</i>	Silver Maple	60mm cal.	10m o.c.	WB
Asa1	<i>Acer saccharinum</i>	Silver Maple	2m ht.	3m o.c.	B&B
Aa	<i>Amelanchier arborea</i>	Downy Serviceberry	2m ht.	3m o.c.	B&B
Cc	<i>Carya cordiformis</i>	Bitternut Hickory	2m ht.	3m o.c.	B&B
Cpe	<i>Crataegus pedicellate</i>	Scarlet Hawthorn	2m ht.	3m o.c.	B&B
Jn	<i>Juglans nigra</i>	Black Walnut	2m ht.	3m o.c.	B&B
Pgr	<i>Populus grandidentata</i>	Large-tooth Aspen	2m ht.	3m o.c.	B&B
Pd	<i>Populus deltoides</i>	Cottonwood	2m ht.	3m o.c.	B&B
Pt	<i>Populus tremuloides</i>	Trembling Aspen	2m ht.	3m o.c.	B&B
Qr	<i>Quercus rubra</i>	Red Oak	60mm cal.	10m o.c.	WB
Qr1	<i>Quercus rubra</i>	Red Oak	2m ht.	3m o.c.	B&B
Tam	<i>Tilia americana</i>	Basswood	60mm cal.	10m o.c.	WB
Ua	<i>Ulmus americana</i>	American Elm	60mm cal.	10m o.c.	WB
Ua1	<i>Ulmus americana</i>	American Elm	2m ht.	3m o.c.	B&B
Coniferous Trees					
Pg	<i>Picea glauca</i>	White Spruce	1.5m ht.	4m o.c.	WB
Ps	<i>Pinus strobus</i>	Eastern White Pine	1.5m ht.	4m o.c.	WB
To	<i>Thuja occidentalis</i>	Eastern White Cedar	1.0m ht.	2.0m o.c.	B&B
Deciduous Shrubs					
Asn	<i>Amelanchier sanguinea</i>	Roundleaf Serviceberry	1.0m ht.	2.0m o.c.	CT
Asp	<i>Amelanchier spicata</i>	Low Serviceberry	1.0m ht.	2.0m o.c.	CT
Am	<i>Aronia melanocarpa</i>	Black Chokeberry	600mm ht.	1.0m o.c.	CT
Cs	<i>Cornus sericea</i>	Red Osier Dogwood	600mm ht.	1.0m o.c.	CT
Cr	<i>Cornus racemosa</i>	Grey Dogwood	600mm ht.	2.0m o.c.	CT
DI	<i>Dierilla lonicera</i>	Bush Honeysuckle	600mm ht.	1.0m o.c.	CT
Iv	<i>Ilex verticillata</i>	Winterberry	600mm ht.	1.0m o.c.	CT
Lc	<i>Lonicera canadensis</i>	Dry Fly Honeysuckle	600mm ht.	1.0m o.c.	CT
Rt	<i>Rhus typhina</i>	Staghorn Sumac	600mm ht.	1.0m o.c.	CT
Ram	<i>Ribes americanum</i>	Wild Black Currant	600mm ht.	1.0m o.c.	CT
Rb	<i>Rosa blanda</i>	Meadow Rose	600mm ht.	1.0m o.c.	CT
Ra	<i>Rubus allegheniensis</i>	Allegheny Blackberry	600mm ht.	1.0m o.c.	CT
Ro	<i>Rubus occidentalis</i>	Black Raspberry	600mm ht.	1.0m o.c.	CT
Rod	<i>Rubus odoratus</i>	Purple-Flowering Raspberry	600mm ht.	1.0m o.c.	CT
Sp	<i>Salix petiolaris</i>	Meadow Willow	600mm ht.	2.0m o.c.	CT
Sd	<i>Salix discolor</i>	Pussy Willow	600mm ht.	2.0m o.c.	CT
Sb	<i>Salix bebbiana</i>	Bebb's Willow	600mm ht.	2.0m o.c.	CT
Sc	<i>Sambucus canadensis</i>	American Elder	600mm ht.	1.0m o.c.	CT
Sa	<i>Spiraea alba</i>	Meadowsweet	600mm ht.	1.0m o.c.	CT
Va	<i>Viburnum acerifolium</i>	Maple-leaf Viburnum	600mm ht.	2.0m o.c.	CT
VI	<i>Viburnum lentago</i>	Nannyberry	600mm ht.	2.0m o.c.	CT
Vt	<i>Viburnum trilobum</i>	American Cranberry	600mm ht.	2.0m o.c.	CT
Coniferous Shrubs					
Tac	<i>Taxus canadensis</i>	Canadian Yew	500mm ht.	1.0m o.c.	CT
Emergent, Submergent, & Floating					
Sm	<i>Scirpus microcarpus</i>	Red-Tinged Bulrush	1 gal pot	0.6m o.c.	CT
TI	<i>Typha latifolia</i>	Broad-leaf Cattail	1 gal pot	0.6m o.c.	CT
Vines					
Csc	<i>Celestrus scandens</i>	Climbing Bittersweet	1 gal pot	1.0m o.c.	CT

Seed Mix 'A' - Standard Roadside Mix		
Botanical Name	Common Name	% of Mix
<i>Festuca rubra</i>	Creeping Red Fescue	52%
<i>Poa pratensis</i>	Kentucky Bluegrass	10%
<i>Lolium perenne</i>	Perennial Ryegrass	35%
<i>Trifolium repens</i>	White Clover	3%

SEEDING RATE: 22-25KG/HA
 NURSE CROP: COMMON OATS (*Avena sativa*) 22KG/HA

Seed Mix 'B' - CVC 1 - Upland Mix		
Botanical Name	Common Name	% of Mix
<i>Anemone canadensis</i>	Canada Anemone	1%
<i>Asclepias syriaca</i>	Common Milkweed	2%
<i>Carex granularis</i>	Limestone Meadow Sedge	15%
<i>Elymus virginicus var. virginicus</i>	Virginia Wildrye	40%
<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	1%
<i>Monarda fistulosa var. fistulosa</i>	Wild Bergamot	1%
<i>Oenothera biennis</i>	Common Evening Primrose	25%
<i>Rudbeckia hirta</i>	Black Eyed Susan	10%
<i>Solidago canadensis var. canadensis</i>	Canada Goldenrod	1%
<i>Solidago juncea</i>	Early Goldenrod	1%
<i>Solidago nemoralis ssp. nemoralis</i>	Gray-stemmed Goldenrod	1%
<i>Symphotrichum novae-angliae</i>	New England Aster	1%
<i>Verbena urticifolia</i>	White Vervain	1%

SEEDING RATE: 22-25KG/HA
 NURSE CROP: COMMON OATS (*Avena sativa*) 22KG/HA

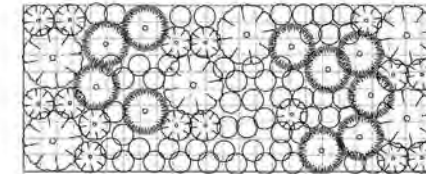
Seed Mix 'C' - CVC 2 - Lowland Mix		
Botanical Name	Common Name	% of Mix
<i>Carex vulpinoidea</i>	Fox Sedge	25%
<i>Elymus virginicus var. virginicus</i>	Virginia Wildrye	35%
<i>Juncus tenuis</i>	Path Rush	5%
<i>Poa palustris</i>	Fowl Bluegrass	25%
<i>Scirpus atrovirens</i>	Dark-green Bulrush	5%
<i>Verbena hastata</i>	Blue Vervain	5%

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Seed Mix 'D' - OSC Woodland Seed Mix 8275		
Botanical Name	Common Name	% of Mix
<i>Poa palustris</i>	Fowl Bluegrass	50%
<i>Desmodium canadensis</i>	Showy Tick Trefoil	30%
<i>Penstemon digitalis</i>	Foxglove Beardtongue	10%
<i>Geum canadense</i>	White Avens	5%
<i>Eutrochium maculatum</i>	Spotted Joe Pyeweed	2%
<i>Carex bebbii</i>	Bebbs Sedge	1%
<i>Carex crinita</i>	Nodding Fringed Sedge	1%
<i>Glyceria striata</i>	Fowl Manna Grass	1%

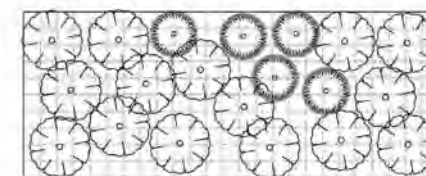
SEEDING RATE: 22-25KG/HA
 NURSE CROP: COMMON OATS (*Avena sativa*) 22KG/HA

FOREST EDGE RESTORATION PLANTING
 BASED ON 250 sq.m. UNIT



PLANTING TYPE	SIZE REQUIREMENTS cm	QUANTITY PER UNIT
DECIDUOUS TREES	175-200	8
CONIFEROUS TREES	100-150	10
WHP DECIDUOUS TREES	80-125	16
SHRUBS	50-60	58

FOREST RESTORATION PLANTING
 BASED ON 250 sq.m. UNIT

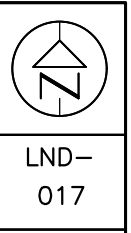


PLANTING TYPE	SIZE REQUIREMENTS cm	QUANTITY PER UNIT
DECIDUOUS TREES	175-200	15
CONIFEROUS TREES	100-150	6

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 2016

REV	DATE	DESCRIPTION

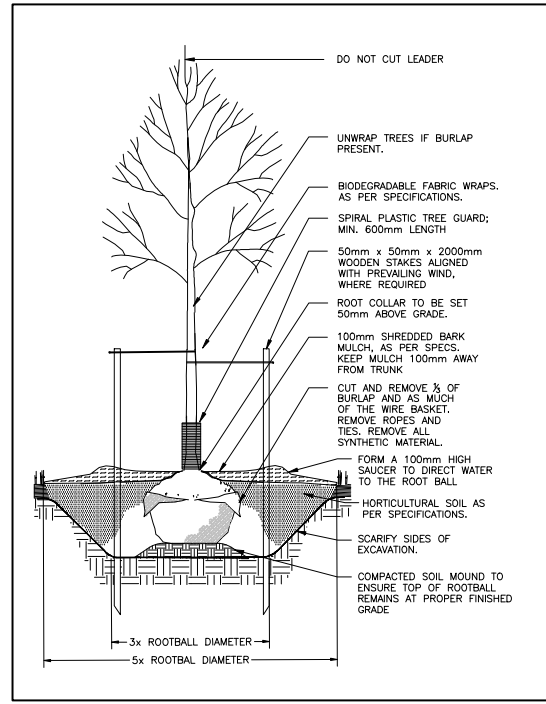
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 LND-017



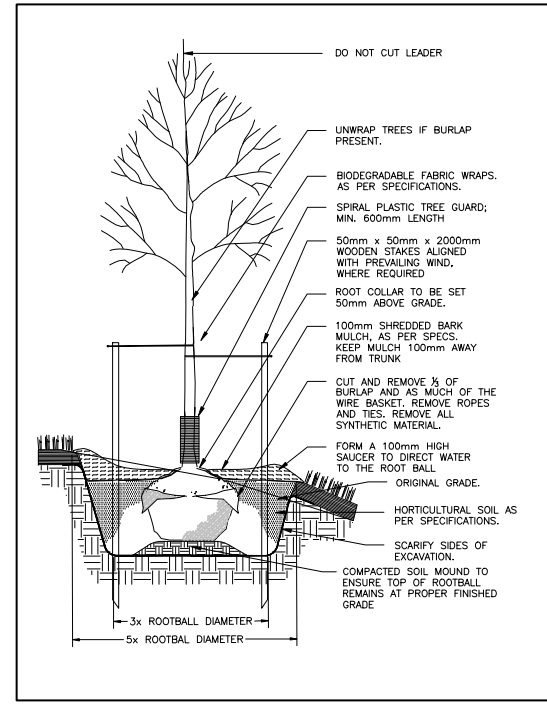
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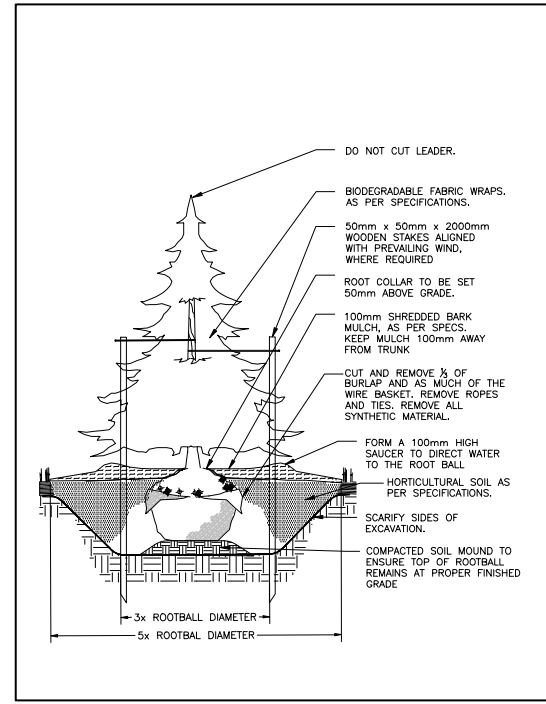
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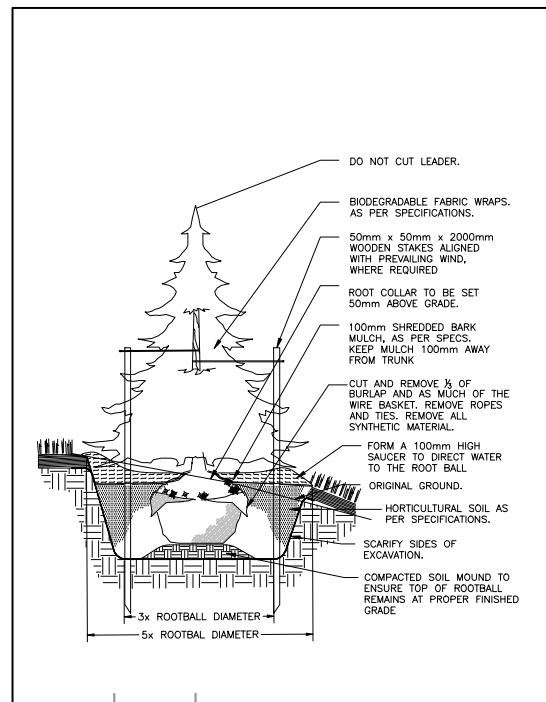
DECIDUOUS TREE (MTO) 1
 NTS X-XXXX



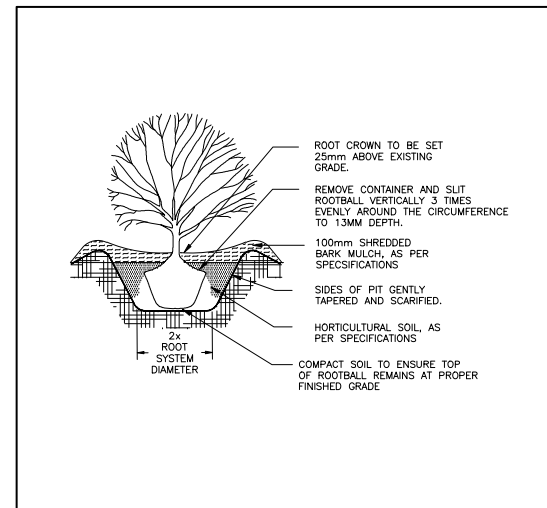
DECIDUOUS TREE ON SLOPE (MTO) 2
 NTS X-XXXX



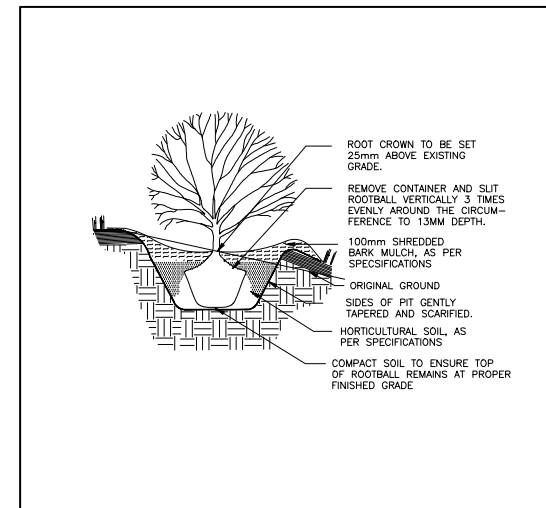
CONIFEROUS TREE (MTO) 3
 NTS X-XXXX



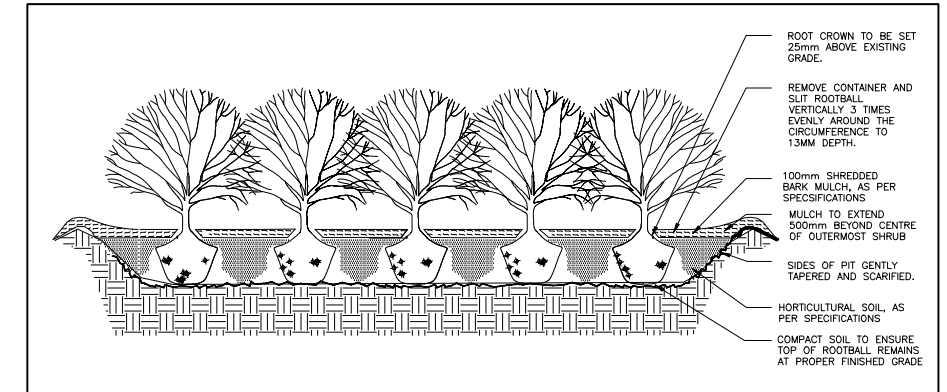
CONIFEROUS TREE ON SLOPE (MTO) 4
 NTS X-XXXX



SHRUB PLANTING (MTO) 5
 NTS X-XXXX



SHRUB PLANTING ON SLOPE (MTO) 6
 NTS X-XXXX



SHRUB PLANTING BED (MTO) 7
 NTS X-XXXX

NTS