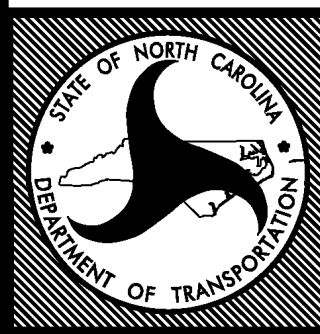


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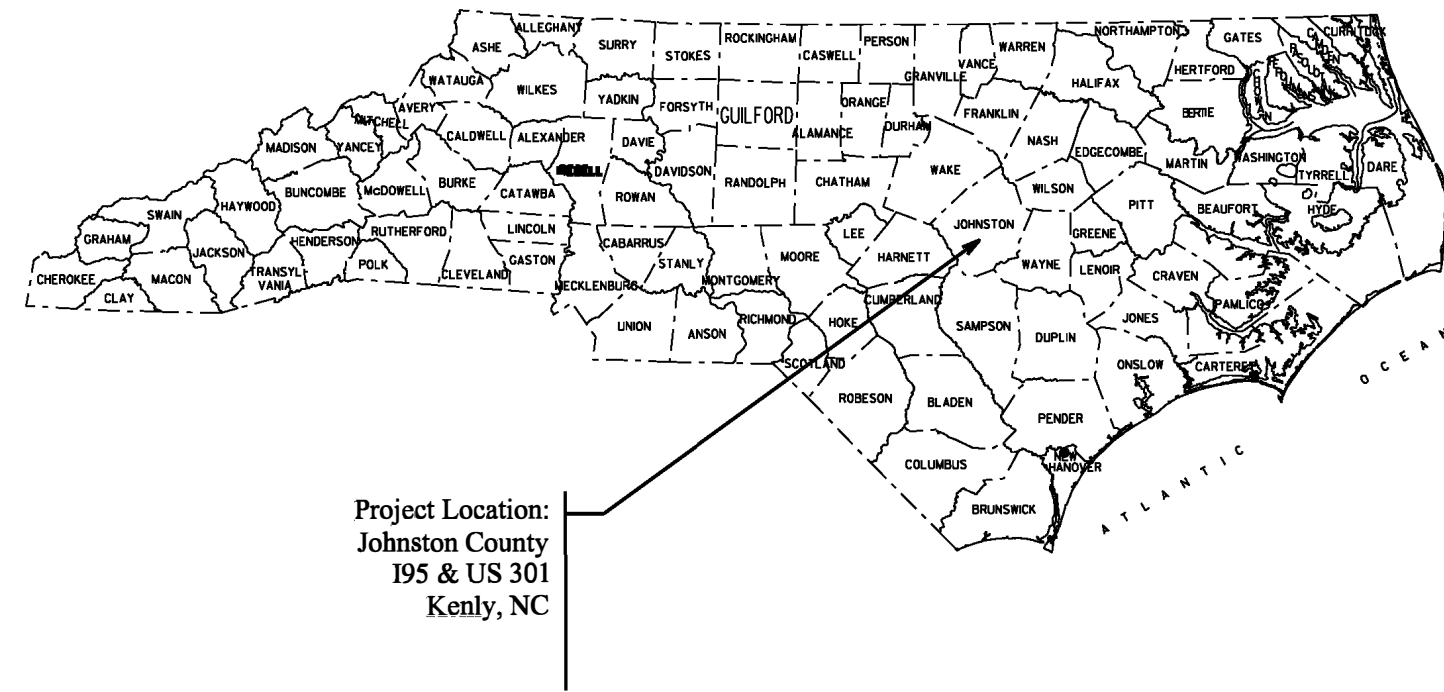
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROPOSED ROADSIDE ENVIRONMENTAL LANDSCAPE DESIGN & AESTHETICS PROJECT



Project Location:
Johnston County
I-95 & US 301
Kenly, NC

CONVENTIONAL SYMBOLS

County Line	---
City or Town Line	---
Exist. Right of Way Line Marker	△
Prop. Right of Way Line Marker (By Others)	▲
Prop Right of Way Line Marker (By Contract)	⊕
Exist. Control of Access Line	⊕
Prop. Control of Access Line	⊕
Property Line	---
Easement Line	---
Slope Stake Line	---
Exist. Fence	+
Prop. Woven Wire Fence	+
Prop. Chain Link Fence	+
Exist. Road	==
Prop. Road	==
Guardrail	---
Survey Line	---
Denotes Line Equality	---
Bridge	---
Culvert	---
Railroad	---
Woods	• • • • • OR
Exist. Telephone Pole	•
Prop. Telephone Pole	•
Tower Pole and Line	•
Exist. Power Pole	•
Prop. Power Pole	•
Sanitary Sewer Line	→ SS →
Water Line	---
Gas Line	---
Picnic Shelter	□
Regeneration	□
Reforestation	□
Large Deciduous Tree	○
Evergreen Tree	●
Small or Flowering Tree	○
Shrubs	•••••
Planting Bed	□

Summary of Quantities

QUANTITY	UNIT	KEY	BOTANICAL NAME	COMMON NAME	FURNISH	
Small Flowering Trees (LARGE)						
57	EA	CCL	Cercis canadensis	Eastern Redbud	2-2 1/2" CAL., 8-10', B&B, 1.2.3 Specimen	As Shown
15	EA	CVL	Chionathus virginicus	Fringetree	2-2 1/2" CAL., 8-10', B&B, 1.2.3 Specimen	As Shown
15	EA	MSL	Magnolia X soulangeana	Saucer Magnolia	2-2 1/2" CAL., 8-10', B&B, 1.2.3 Specimen	As Shown
Evergreen Trees (LARGE)						
46	EA	INL	Ilex X Nellie R Stevens	Nellie R Stevens Holly	#7 Cont. 3-4'	As Shown
27	EA	JVL	Juniperus virginiana	Eastern Red Cedar	6-8", B&B, Specimen 3.1.2.4	As Shown
40	EA	PTL	Pinus taeda	Loblolly Pine	8-10', B&B, Specimen 3.1.2.4	As Shown
Deciduous Trees (LARGE)						
6	EA	NSL	Nyssa sylvatica 'Wildfire'	Black Gum	2-2 1/2" Cal., 12-14', B&B, Specimen	As Shown
10	EA	QNL	Quercus nuttallii	Nuttall Oak	2-2 1/2" Cal., 12-14', B&B, Specimen	As Shown
8	EA	QPL	Quercus phellos	Willow Oak	2-2 1/2" Cal., 12-14', B&B, Specimen	As Shown
8	EA	TDL	Taxodium Distichum	Bald Cypress	2-2 1/2" Cal., 12-14', B&B, Specimen	As Shown
Shrubs / Native Grass and Perennial Varieties						
2220	EA	EF	Echinacea purpurea 'Firebird'	Firebird Purple Coneflower	QT. ASNS 13.1.3	2' O.C.
1875	EA	EC	Eragrostis curvula	Purple Weeping Lovegrass	32s-32 Liners/Tray	2' O.C.
3895	EA	HB	Hemerocallis 'Buttered Popcorn'	Buttered Popcorn Daylily	Single Fan Rhizome	2' O.C.
20,015	EA	ND	Narcissus 'Dutch Master'	Dutch Master Daffodil	DN II	24" O.C.
15,130	EA	NT	Nassella tenuissima	Mexican Feather Grass	32s-32 Liners/Tray	24" O.C.
2052	EA	PV	Panicum virgatum 'Cloud Nine	Cloud Nine Switchgrass	32s-32 Liners/Tray	5' O.C.
Descriptions						
36	EA	SP	Establishment			
7600	CY	1670	Mulch for Planting			
29,200	SY	1670	Post-Emergence Herbicidal Treatment for Plant Beds			
29,200	SY	1660	Pre-Emergence Plant Bed Herbicide Treatment			
13	ACRE	SP	Supplemental Seeding & Repairing			
690	M/G	1670	Water for Planting			
600	M/G	1670	Water for Sod			
30	EA (CYL)	SP	Specialty Mowing			
16,050	SY	SP	Sod			
1	LS	SP	Traffic Control			
5	ACRE	SP	Selective Vegetation Removal			
1	LS	SP	Landscape Grading			
100	CY	SP	Topsoil			
10	EA	SP	Selective Tree Removal			

T.I.P. #	STATE PROJECT . #	SHEET #	SHEET #
I-5786(L)		L1A	7
FED. PROJ. #	DESCRIPTION	DIVISION	
	I-95 & US 321 Kenly, NC	4	

GRAPHIC SCALES



Designed By: Jeff Lackey 6/2021

REVISIONS

DATE	DESCRIPTION

INDEX OF (L) SHEETS:

- L1A - TITLE SHEET
- L1B - PLANTING DETAILS
- L1C - SHEET LAYOUT PLAN / SYMBOLOGY

SHEET LAYOUT PLANS -

- L2 - LANDSCAPE PLANTING PLAN
- L3 - LANDSCAPE PLANTING PLAN
- L4 - LANDSCAPE PLANTING PLAN
- L5 - LANDSCAPE PLANTING PLAN

STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

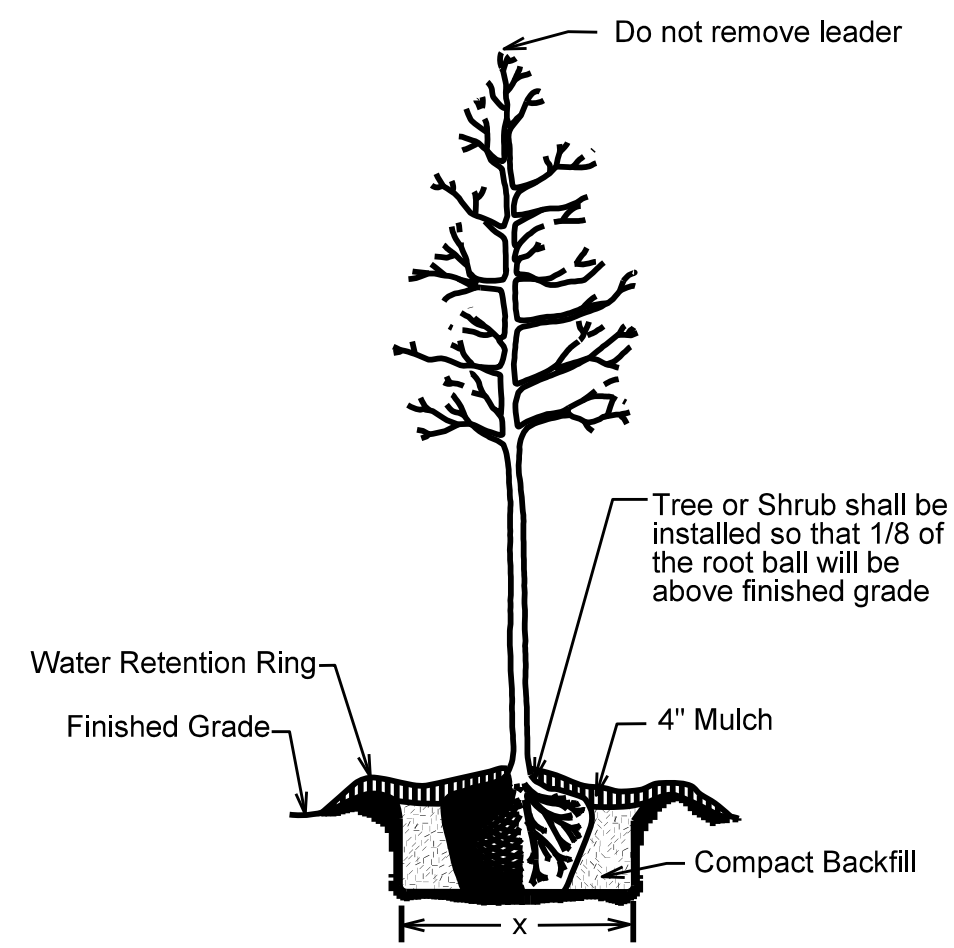
LOCATION: I-95 & US 301 Kenly, NC Exit 107

TYPE of WORK: ENHANCED Corridor Enhancement Design & Development

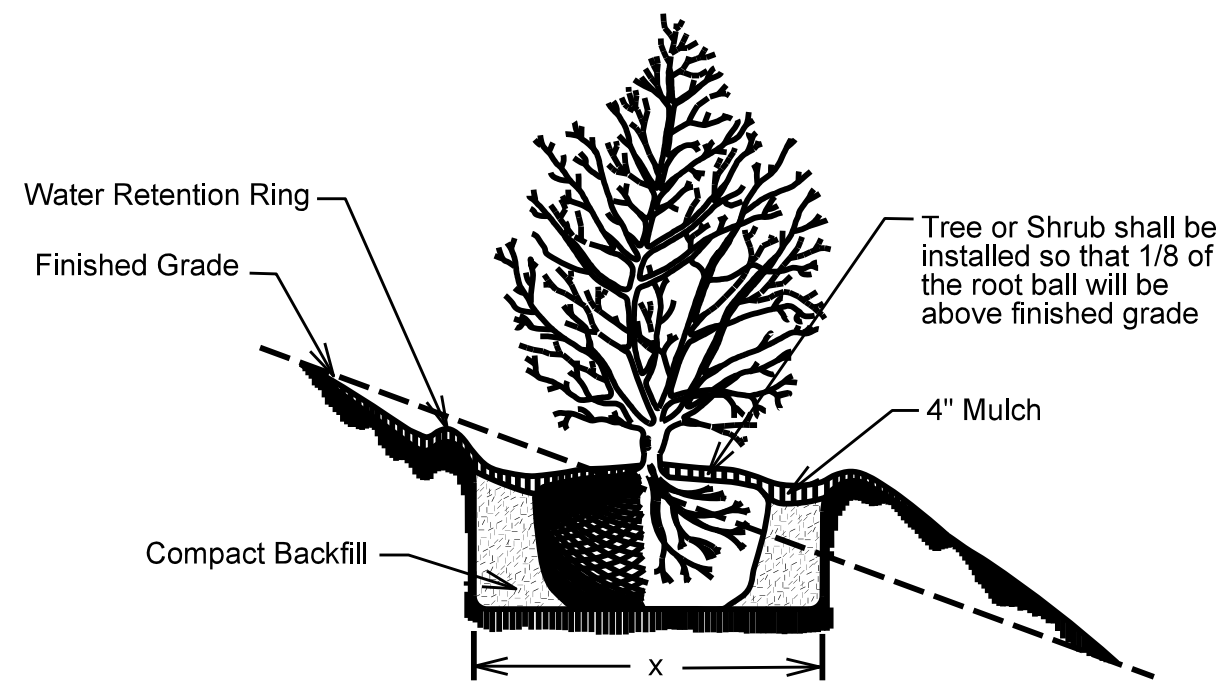
COUNTY: JOHNSTON COUNTY

2018 STANDARD SPECIFICATIONS

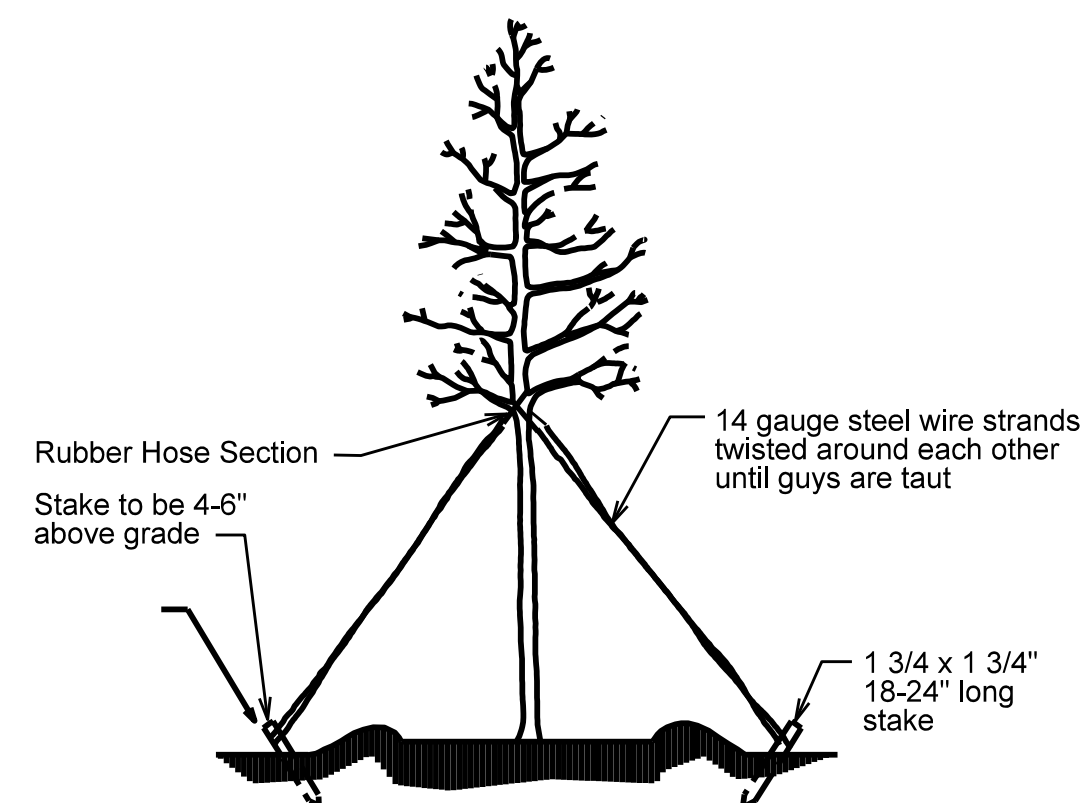
PREPARED IN THE OFFICE OF:
NCDOT- ROADSIDE ENVIRONMENTAL UNIT
DESIGN & DEVELOPMENT SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27699 919-707-2920



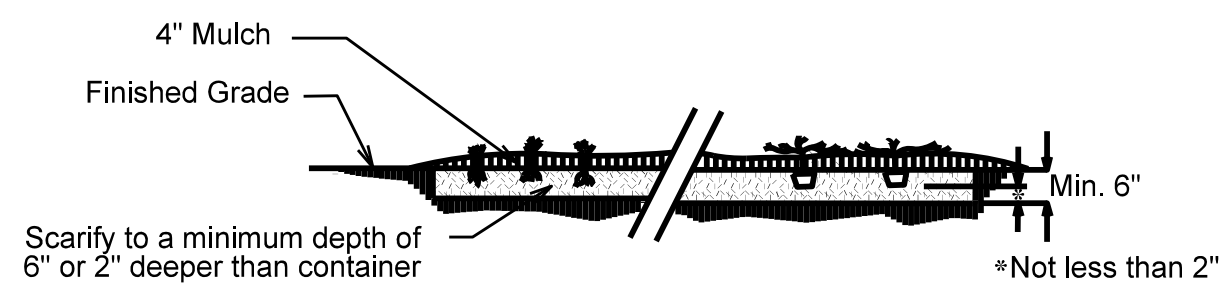
TREE OR SHRUB PLANTING DETAIL
(LEVEL GROUND)



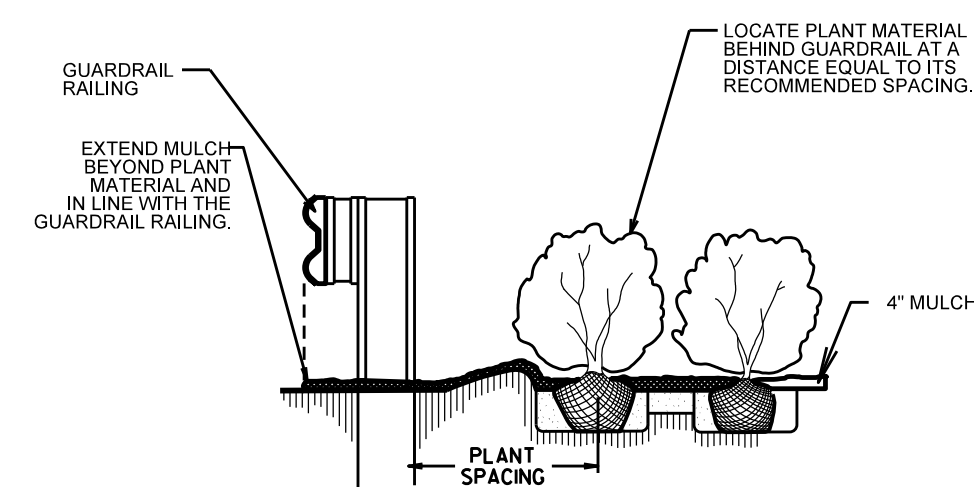
TREE OR SHRUB PLANTING DETAIL
(SLOPING GROUND)



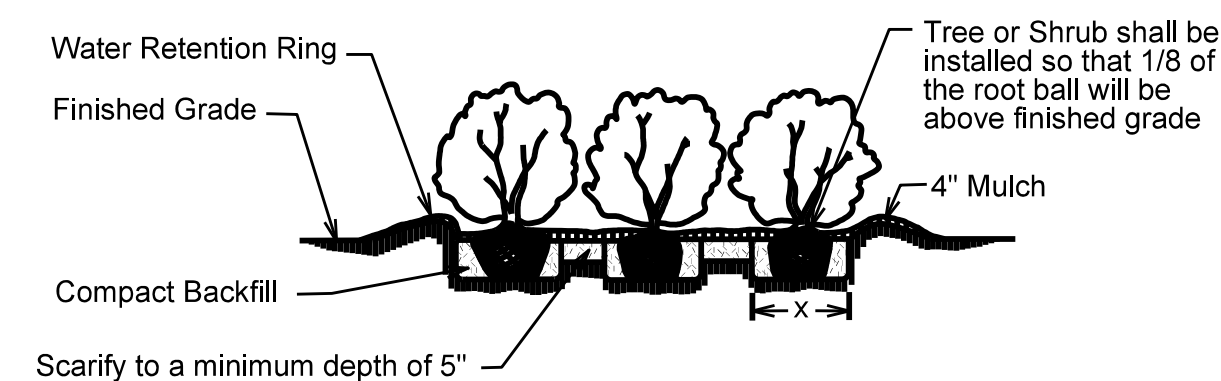
TREE GUYING DETAIL
(FOR TREES 10' OR LARGER)
* Utilize guying detail only if requested by the Engineer.



Groundcover Planting Detail



GUARDRAIL MULCHING DETAIL
* Detail to be used when approved by the Engineer.

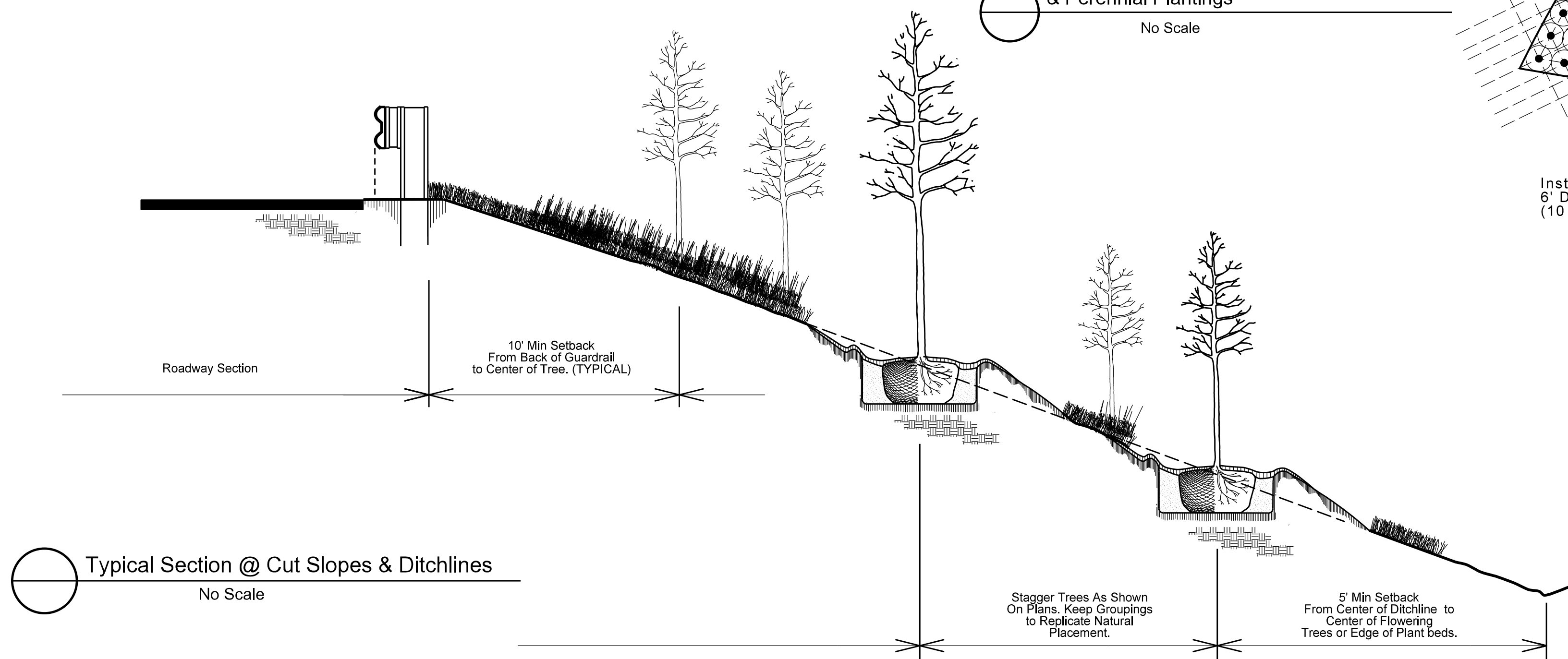


Shrub Bed Planting Detail

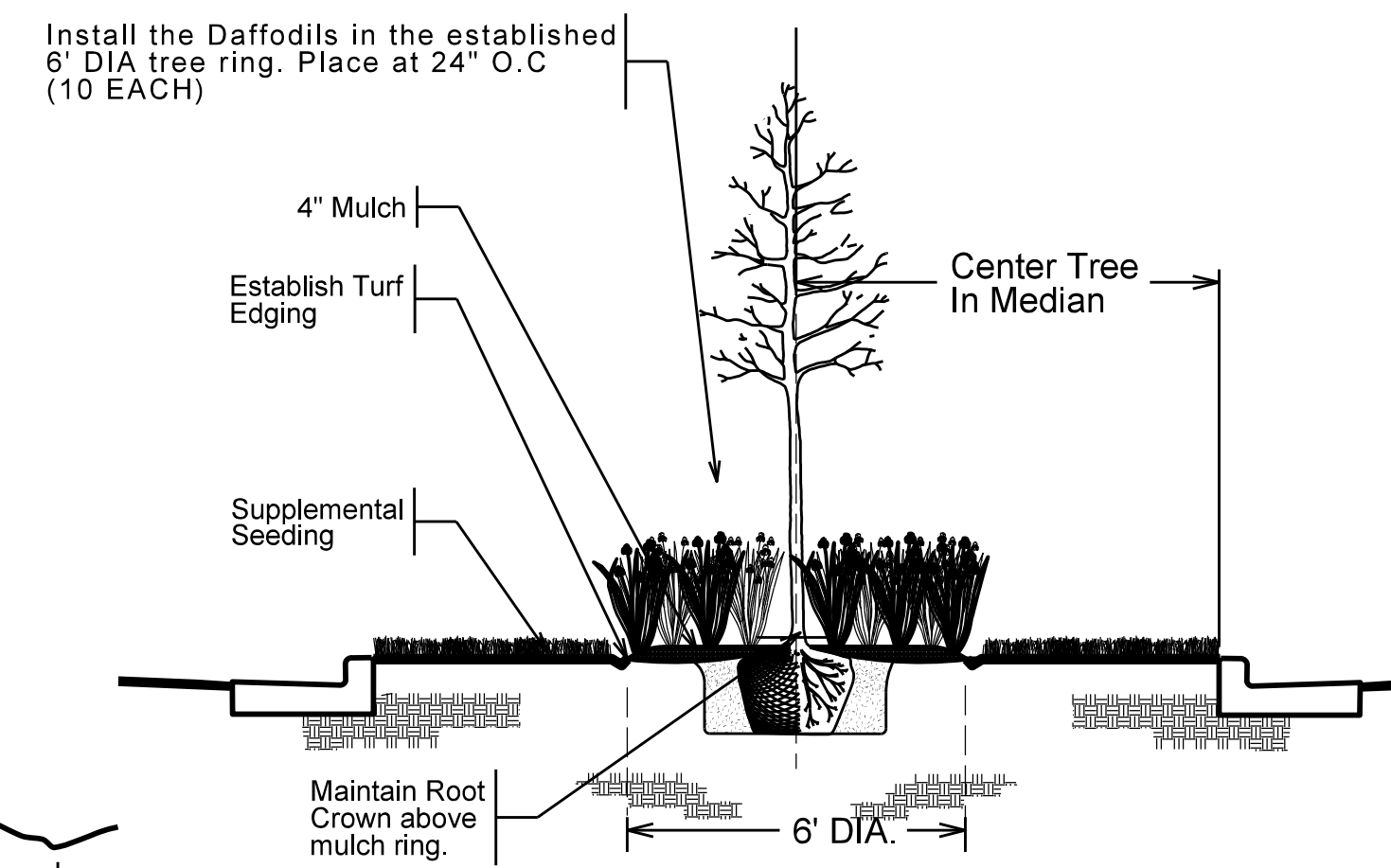
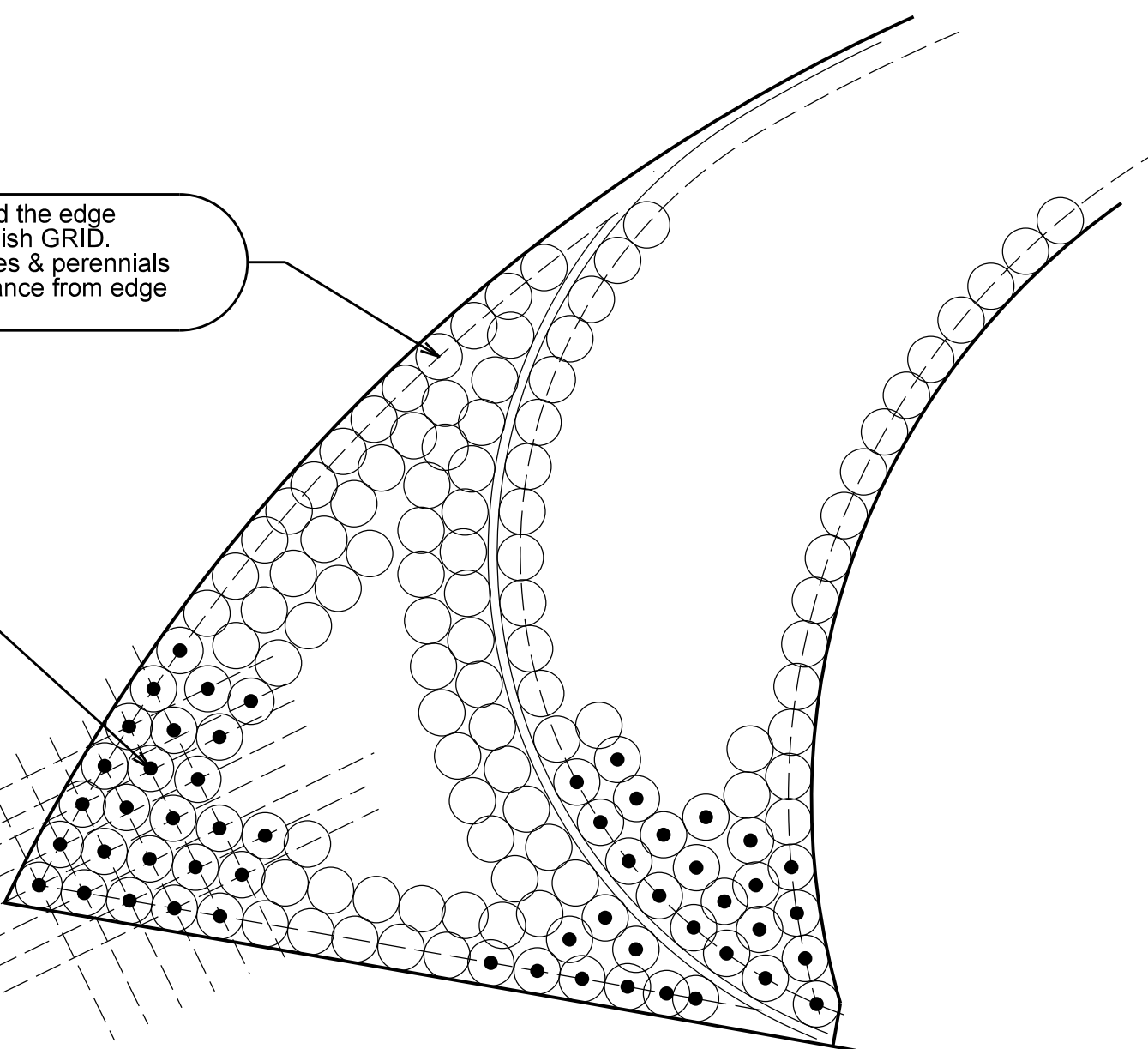
Align Grasses around the edge of plant bed to establish GRID. Start center of grasses & perennials half the spacing distance from edge of plant bed

Establish the O.C. Grid for Grasses & Perennials. See Plant List for individual spacing.

Typical Plan View @ Layout for Native Grass & Perennial Plantings
No Scale



Typical Section @ Cut Slopes & Ditchlines
No Scale



Tree Ring/Bed Plantings
No Scale

NOTES:
SCHEDULE FOR PLANT HOLE SIZE:
CONTAINER OR ROOT BALL SIZE
X = 2 TIMES THE DIAMETER OF THE CONTAINER OR THE ROOT BALL DIAMETER

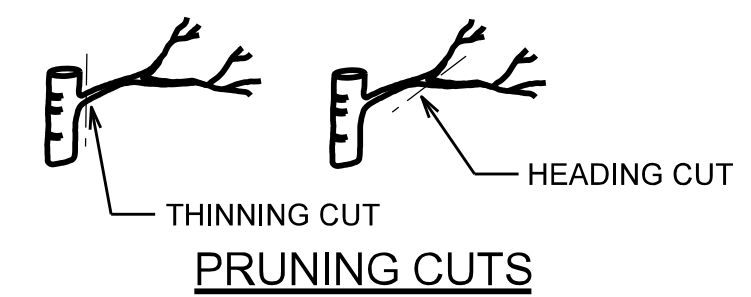
FERTILIZER SHALL BE APPLIED AT TIME OF PLANTING. FERTILIZER SHALL BE A SLOW RELEASE PELLET OR TABLET. FORMULATION SHALL BE APPROVED BY ENGINEER IN THE FIELD.

RATES SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND APPROVED BY THE ENGINEER IN THE FIELD. THOROUGHLY MIX WITH TOPSOIL, BACKFILL OR SCARIFIED SOIL.

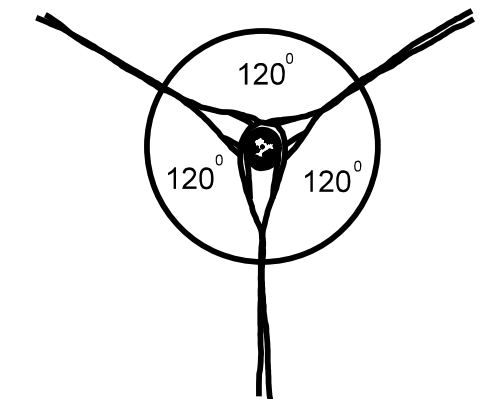
REMOVE BURLAP FROM TOP OF BALL BEFORE BACKFILLING AROUND BALL IS COMPLETE

SEE STANDARD SPECIFICATIONS FOR PLANT BED HERBICIDE TREATMENT

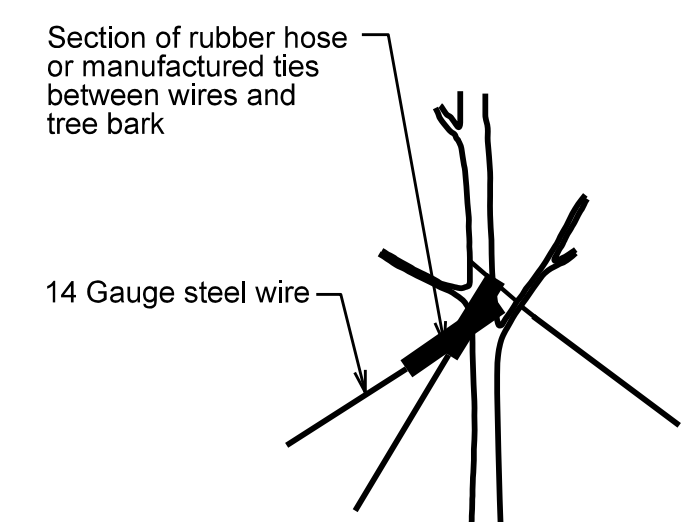
When mulched bed is adjacent to guard rail run mulch to front edge of guard rail - see detail



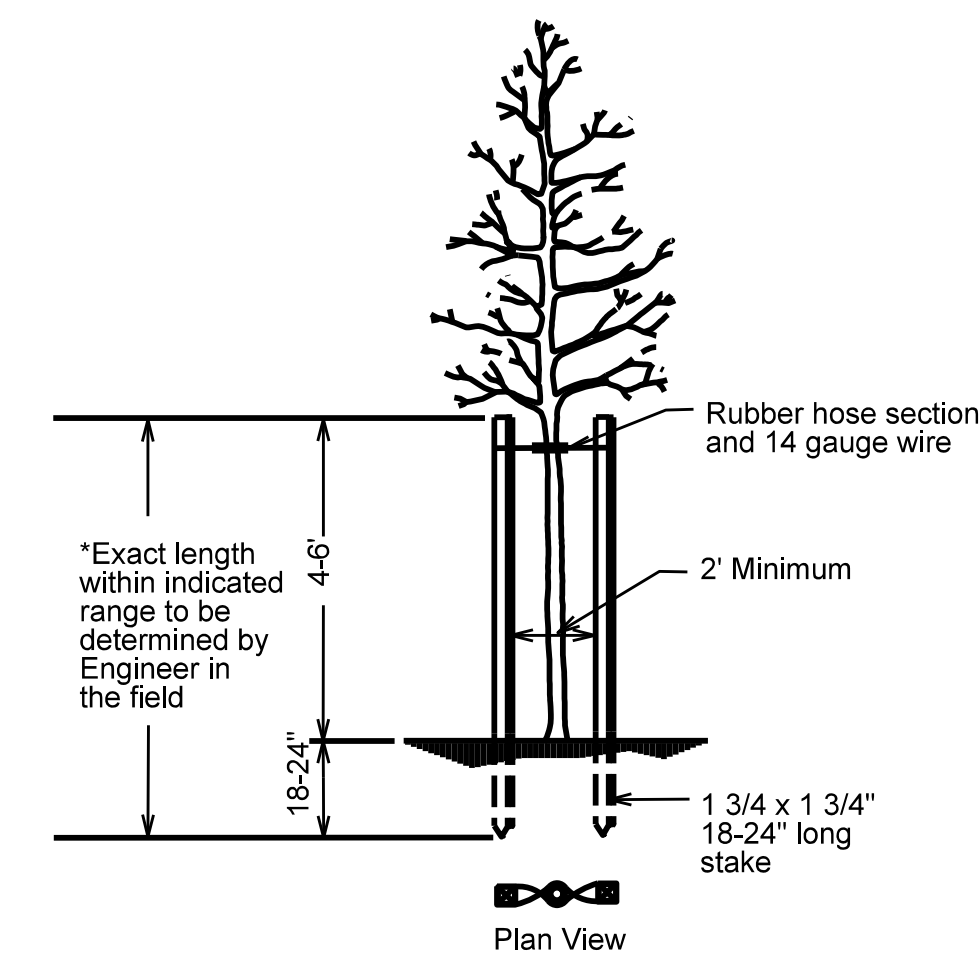
PRUNING CUTS



GUY SPACING DETAIL

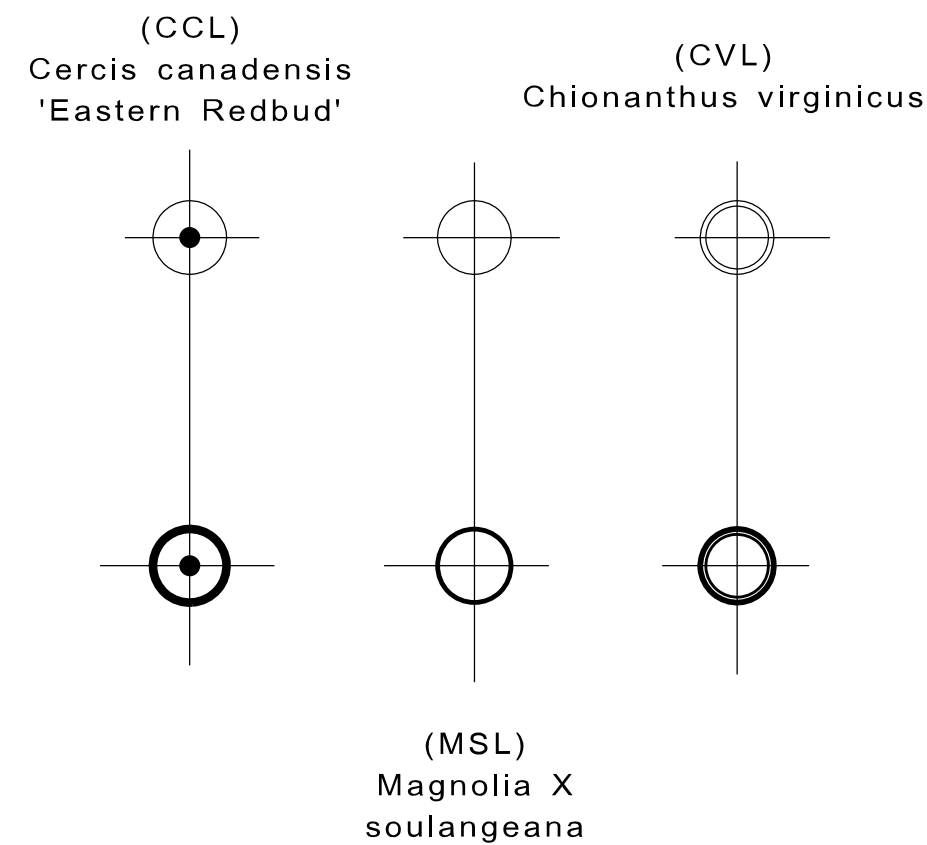
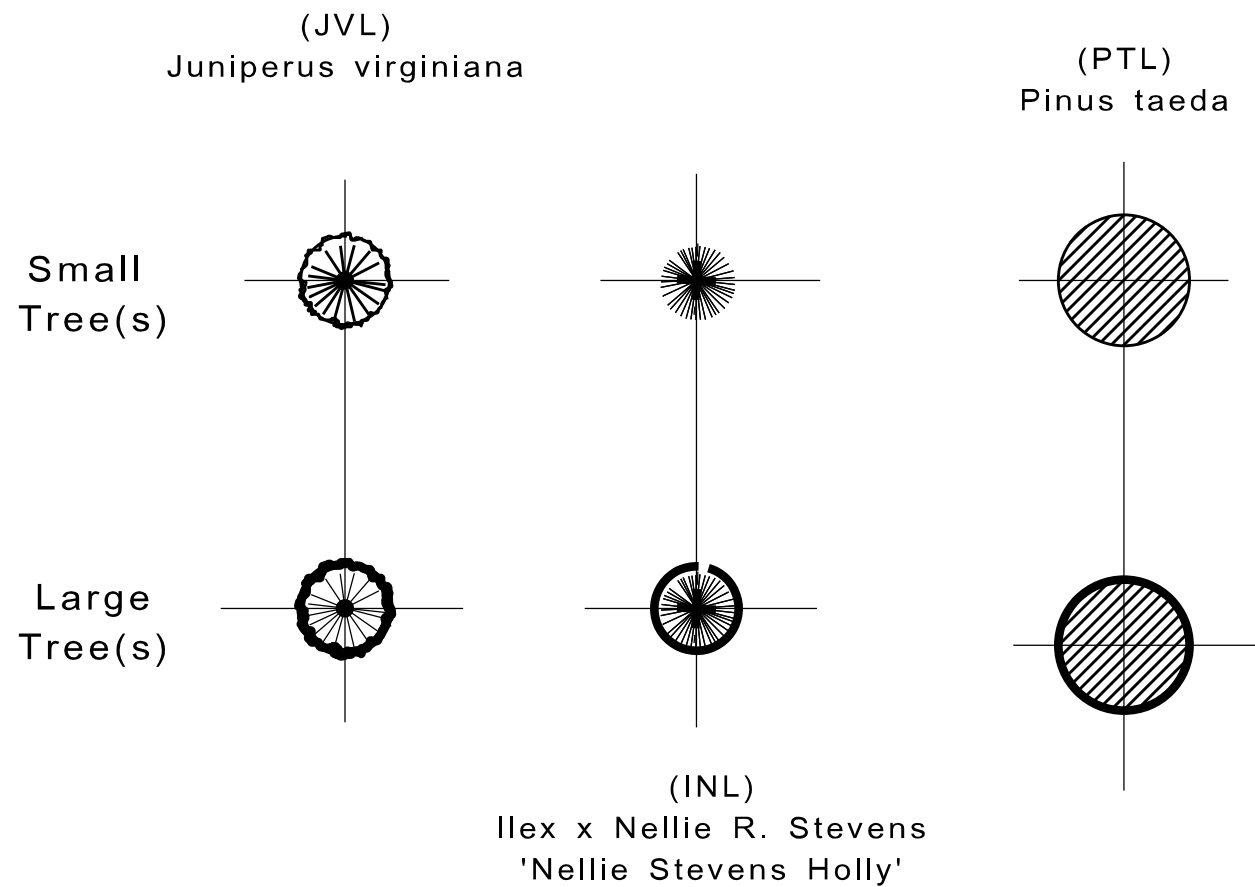
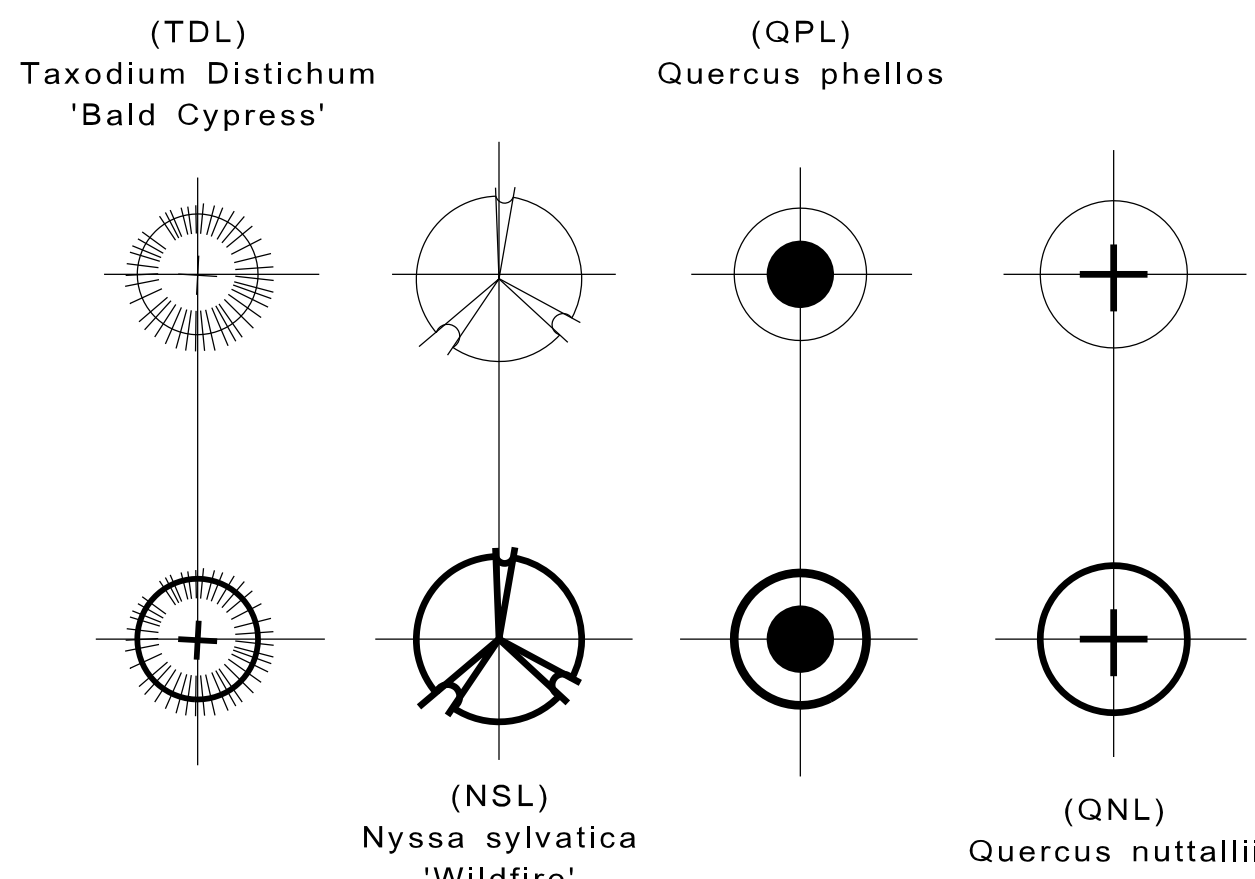


GUY TYING DETAIL



STAKING DETAIL
(FOR TREES 6' TO 10')

* Utilize staking detail only if requested by the Engineer.



Notes:

- Contractor Shall Consult with Engineers Prior to any field adjustments. Follow plans as close as possible. Bed layouts should be adjusted to incorporate existing traffic signage, utilities, where necessary, and any sight distance issues that may develop -especially at the medians. Ensure caution is maintained during stakeout to maintain clear site lines. Details may be adjusted to accommodate site. Spacing may be decreased to fit material at specified locations. Consult with Engineer to ensure proper development.

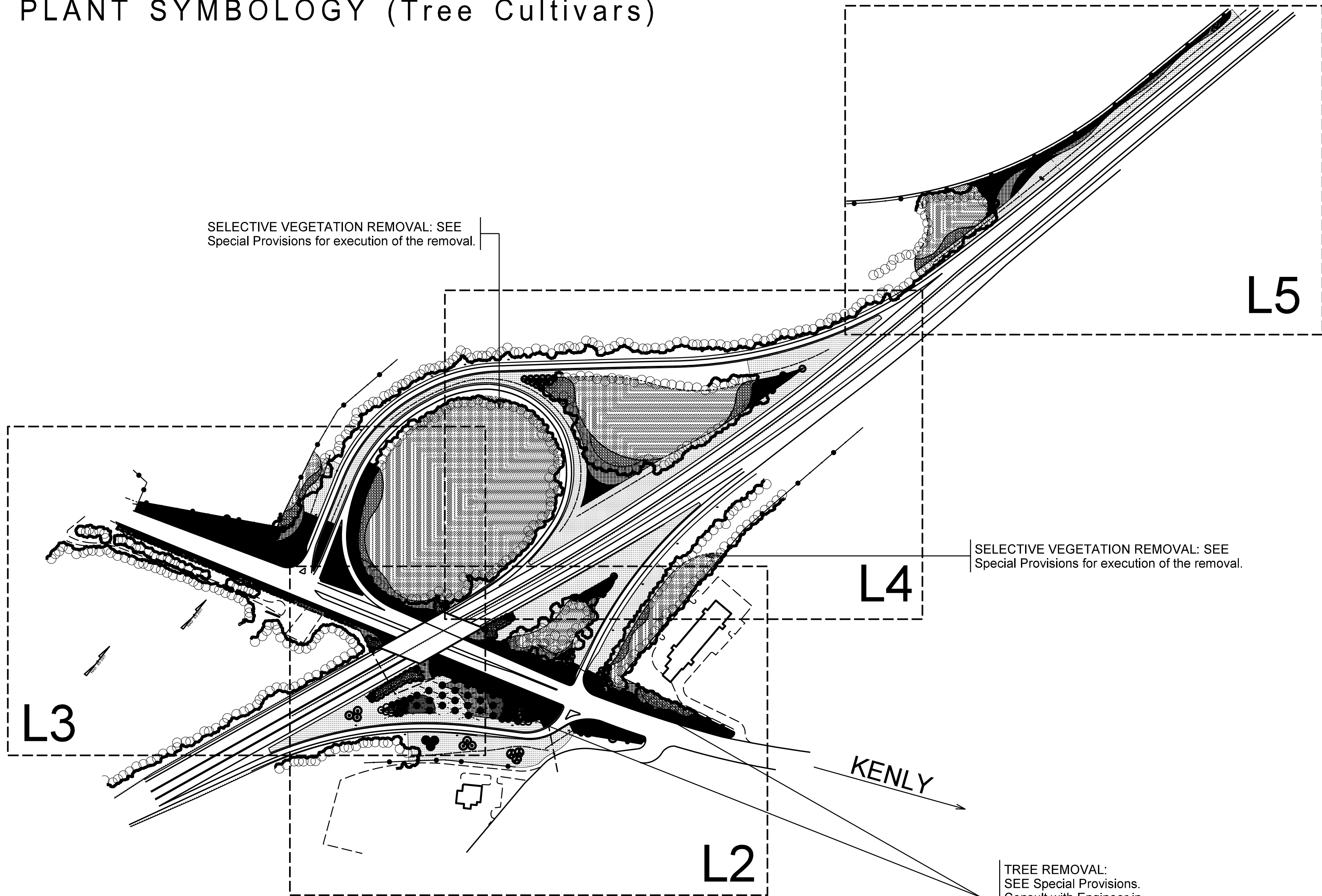
-Contractor shall utilize all NCDOT Standard Specifications for all line items listed. These shall be utilized in conjunction with the Special Provisions. Consult with Engineer in the field to maintain accuracy.

-Mowing shall take place along all sodded and supplemental seeded areas, repair and supplemental seeding are labeled on plans-SEE PLANS. Note-the seeding and mulching special provisions outline mowing hieght and other important information. Those areas where trees are to be incorporated shall be mowed out initially and maintained as directed by the NCDOT Specs. Consult with Architect & Engineer in the field. All Native Grass, Perennials Plantings shall be installed as a continuous mulched bed and shall be treated with Post- Emergence treatment. The individual trees shall be treated with Post Emergence and mulched individually as shown on the plans.

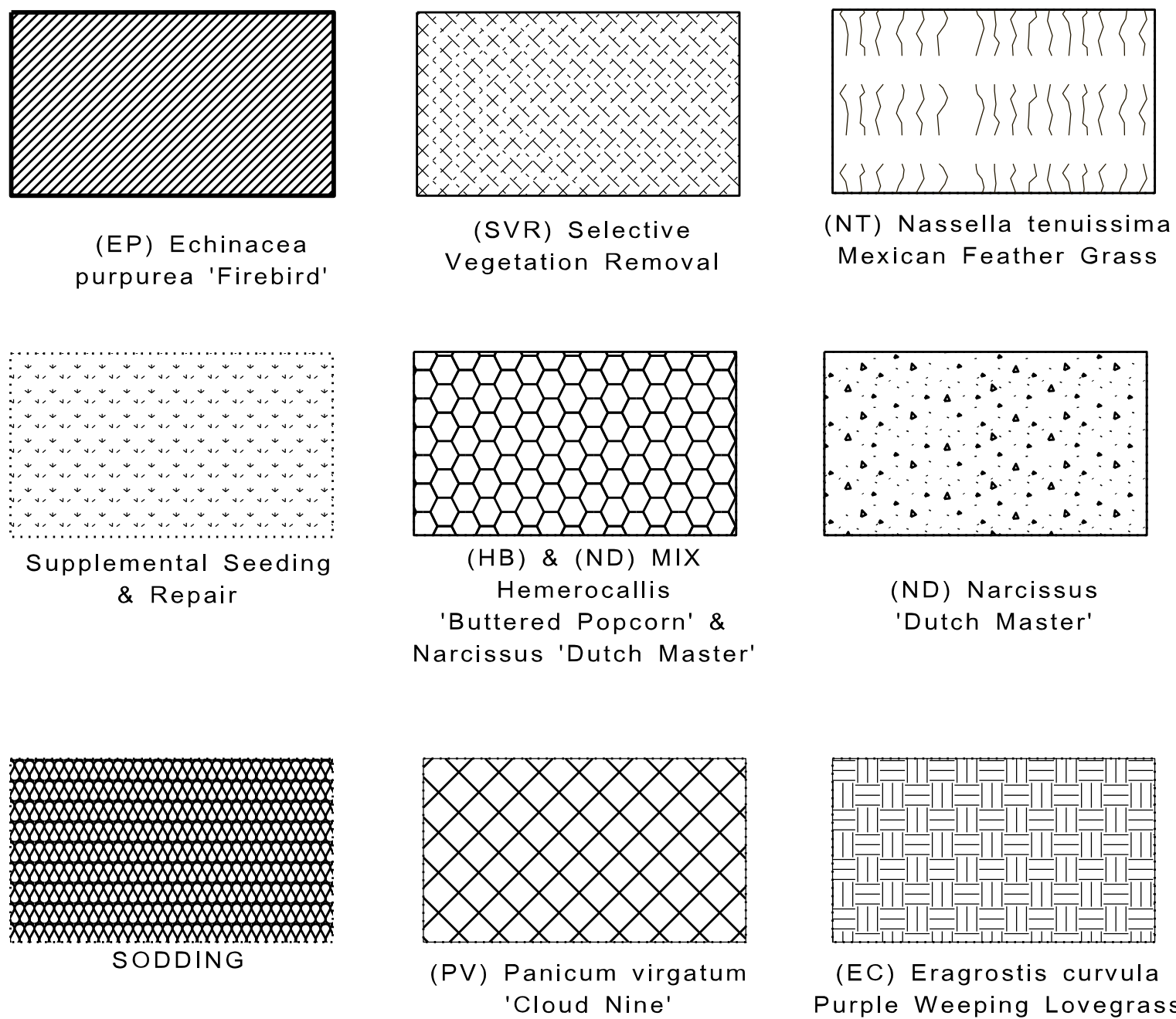
-Trees to be field staked by the REU ENGINEER. Consult with Engineer for more detailed information to ensure the plants are located according to NCDOT Standard Specifications and are in no conflict with existing utilities, existing vegetation and possible sight lines.

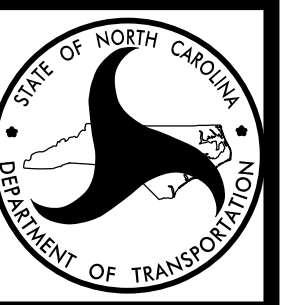
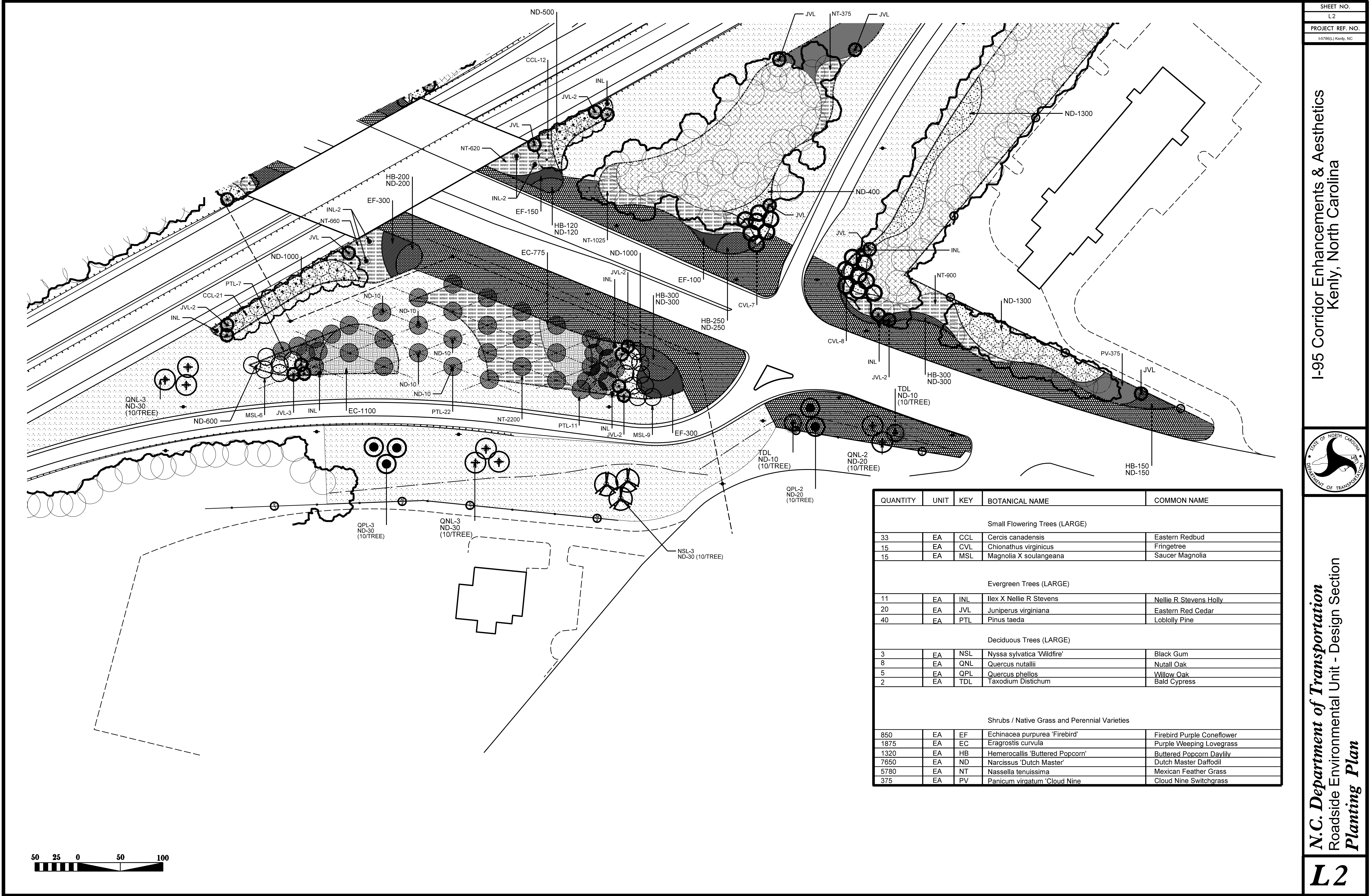
PLANT SYMBOLOGY (Tree Cultivars)

SELECTIVE VEGETATION REMOVAL: SEE
Special Provisions for execution of the removal.

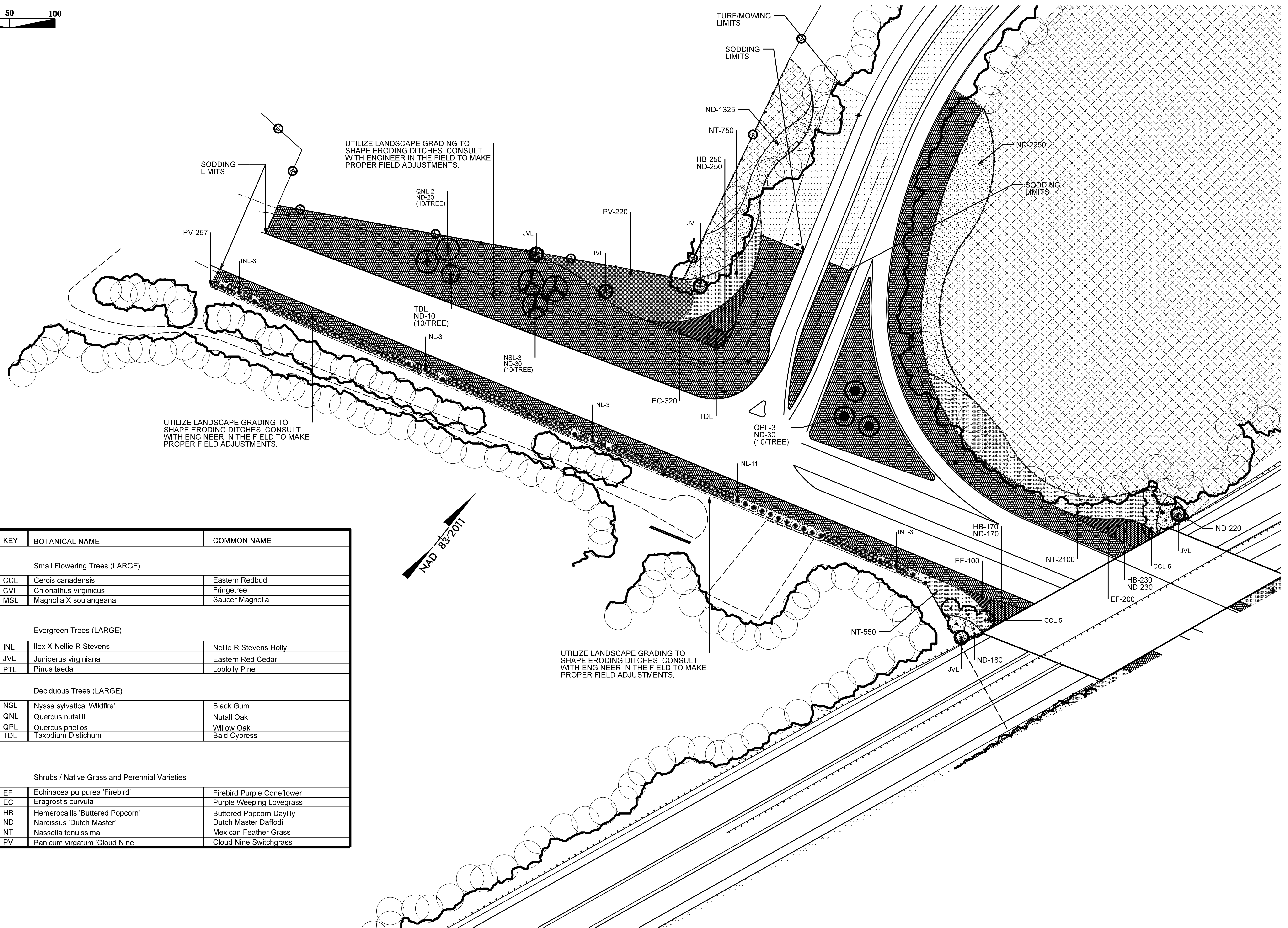


PLANT SYMBOLOGY
(Turf & Perennials)



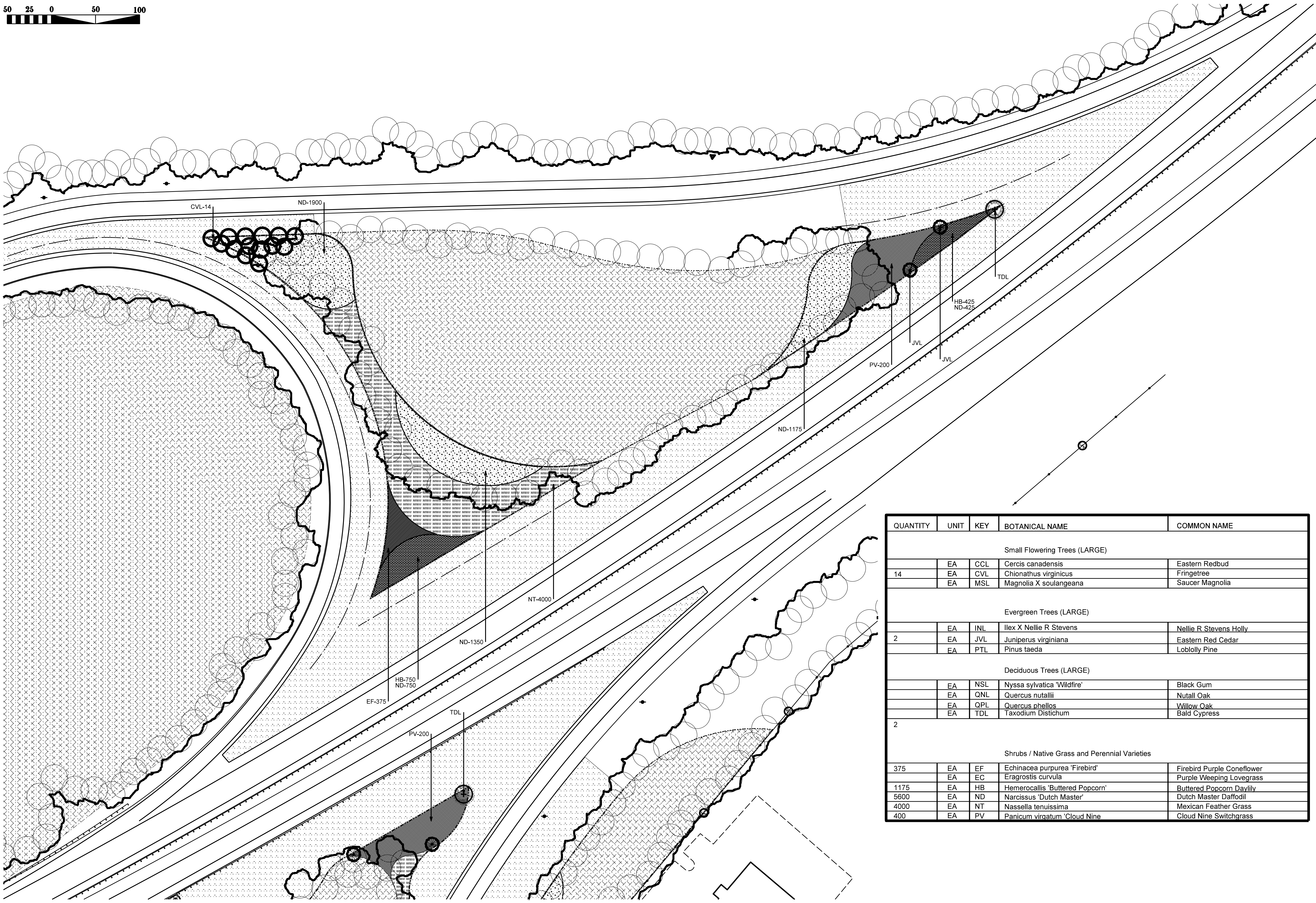


QUANTITY	UNIT	KEY	BOTANICAL NAME	COMMON NAME
Small Flowering Trees (LARGE)				
33	EA	CCL	Cercis canadensis	Eastern Redbud
15	EA	CVL	Chionathus virginicus	Fringetree
15	EA	MSL	Magnolia X soulangeana	Saucer Magnolia
Evergreen Trees (LARGE)				
11	EA	INL	Ilex X Nellie R Stevens	Nellie R Stevens Holly
20	EA	JVL	Juniperus virginiana	Eastern Red Cedar
40	EA	PTL	Pinus taeda	Loblolly Pine
Deciduous Trees (LARGE)				
3	EA	NSL	Nyssa sylvatica 'Wildfire'	Black Gum
8	EA	QNL	Quercus nutallii	Nuttall Oak
5	EA	QPL	Quercus phellos	Willow Oak
2	EA	TDL	Taxodium Distichum	Bald Cypress
Shrubs / Native Grass and Perennial Varieties				
850	EA	EF	Echinacea purpurea 'Firebird'	Firebird Purple Coneflower
1875	EA	EC	Eragrostis curvula	Purple Weeping Lovegrass
1320	EA	HB	Hemerocallis 'Buttered Popcorn'	Buttered Popcorn Daylily
7650	EA	ND	Narcissus 'Dutch Master'	Dutch Master Daffodil
5780	EA	NT	Nassella tenuissima	Mexican Feather Grass
375	EA	PV	Panicum virgatum 'Cloud Nine	Cloud Nine Switchgrass



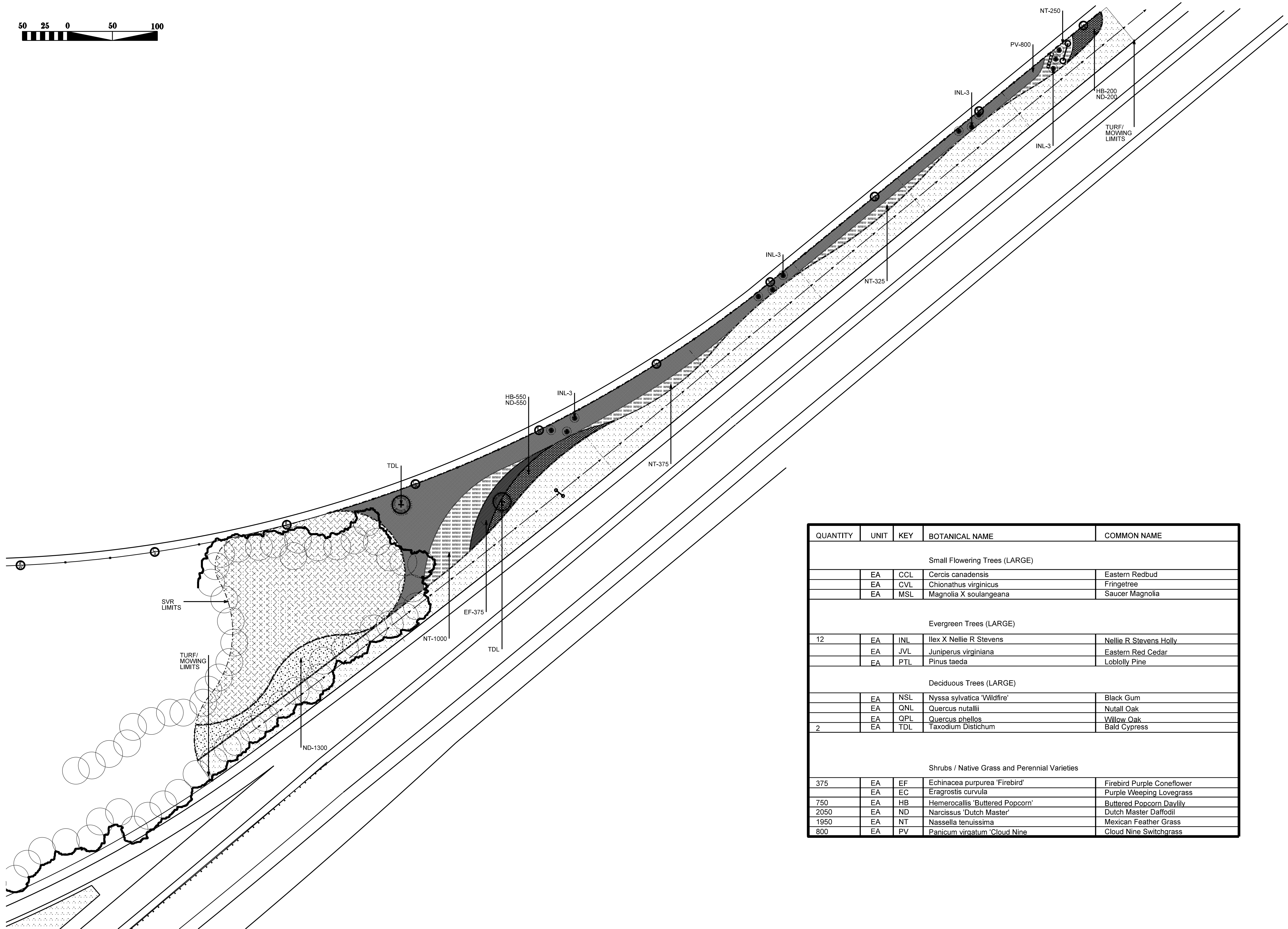
QUANTITY	UNIT	KEY	BOTANICAL NAME	COMMON NAME
Small Flowering Trees (LARGE)				
10	EA	CCL	Cercis canadensis	Eastern Redbud
	EA	CVL	Chionathus virginicus	Fringetree
	EA	MSL	Magnolia X soulangeana	Saucer Magnolia
Evergreen Trees (LARGE)				
23	EA	INL	Ilex X Nellie R Stevens	Nellie R Stevens Holly
5	EA	JVL	Juniperus virginiana	Eastern Red Cedar
	EA	PTL	Pinus taeda	Loblolly Pine
Deciduous Trees (LARGE)				
3	EA	NSL	Nyssa sylvatica 'Wildfire'	Black Gum
2	EA	QNL	Quercus nutallii	Nuttall Oak
3	EA	QPL	Quercus phellos	Willow Oak
2	EA	TDL	Taxodium Distichum	Bald Cypress
Shrubs / Native Grass and Perennial Varieties				
620	EA	EF	Echinacea purpurea 'Firebird'	Firebird Purple Coneflower
	EA	EC	Eragrostis curvula	Purple Weeping Lovegrass
650	EA	HB	Hemerocallis 'Buttered Popcorn'	Buttered Popcorn Daylily
4715	EA	ND	Narcissus 'Dutch Master'	Dutch Master Daffodil
3400	EA	NT	Nassella tenuissima	Mexican Feather Grass
477	EA	PV	Panicum virgatum 'Cloud Nine	Cloud Nine Switchgrass





QUANTITY	UNIT	KEY	BOTANICAL NAME	COMMON NAME
Small Flowering Trees (LARGE)				
14	EA	CCL	Cercis canadensis	Eastern Redbud
	EA	CVL	Chionathus virginicus	Fringetree
	EA	MSL	Magnolia X soulangeana	Saucer Magnolia
Evergreen Trees (LARGE)				
2	EA	INL	Ilex X Nellie R Stevens	Nellie R Stevens Holly
	EA	JVL	Juniperus virginiana	Eastern Red Cedar
	EA	PTL	Pinus taeda	Loblolly Pine
Deciduous Trees (LARGE)				
2	EA	NSL	Nyssa sylvatica 'Wildfire'	Black Gum
	EA	QNL	Quercus nutallii	Nuttall Oak
	EA	QPL	Quercus phellos	Willow Oak
	EA	TDL	Taxodium distichum	Bald Cypress
Shrubs / Native Grass and Perennial Varieties				
375	EA	EF	Echinacea purpurea 'Firebird'	Firebird Purple Coneflower
	EA	EC	Eragrostis curvula	Purple Weeping Lovegrass
1175	EA	HB	Heemerocallis 'Buttered Popcorn'	Buttered Popcorn Daylily
5600	EA	ND	Narcissus 'Dutch Master'	Dutch Master Daffodil
4000	EA	NT	Nassella tenuissima	Mexican Feather Grass
400	EA	PV	Panicum virgatum 'Cloud Nine'	Cloud Nine Switchgrass

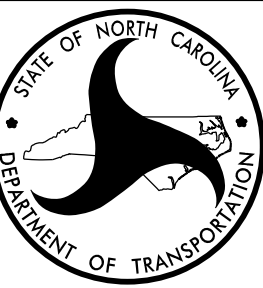




QUANTITY	UNIT	KEY	BOTANICAL NAME	COMMON NAME
Small Flowering Trees (LARGE)				
	EA	CCL	Cercis canadensis	Eastern Redbud
	EA	CVL	Chionathus virginicus	Fringetree
	EA	MSL	Magnolia X soulangeana	Saucer Magnolia
Evergreen Trees (LARGE)				
12	EA	INL	Ilex X Nellie R Stevens	Nellie R Stevens Holly
	EA	JVL	Juniperus virginiana	Eastern Red Cedar
	EA	PTL	Pinus taeda	Loblolly Pine
Deciduous Trees (LARGE)				
	EA	NSL	Nyssa sylvatica 'Wildfire'	Black Gum
	EA	QNL	Quercus nutallii	Nuttall Oak
	EA	QPL	Quercus phellos	Willow Oak
2	EA	TDL	Taxodium Distichum	Bald Cypress
Shrubs / Native Grass and Perennial Varieties				
375	EA	EF	Echinacea purpurea 'Firebird'	Firebird Purple Coneflower
	EA	EC	Eragrostis curvula	Purple Weeping Lovegrass
750	EA	HB	Hemerocallis 'Buttered Popcorn'	Buttered Popcorn Daylily
2050	EA	ND	Narcissus 'Dutch Master'	Dutch Master Daffodil
1950	EA	NT	Nassella tenuissima	Mexican Feather Grass
800	EA	PV	Panicum virgatum 'Cloud Nine	Cloud Nine Switchgrass

SHEET NO.
L5
PROJECT REF. NO.
I-5786(L) Kenly, NC

I-95 Corridor Enhancements & Aesthetics
Kenly, North Carolina



N.C. Department of Transportation
Roadside Environmental Unit - Design Section
Planting Plan