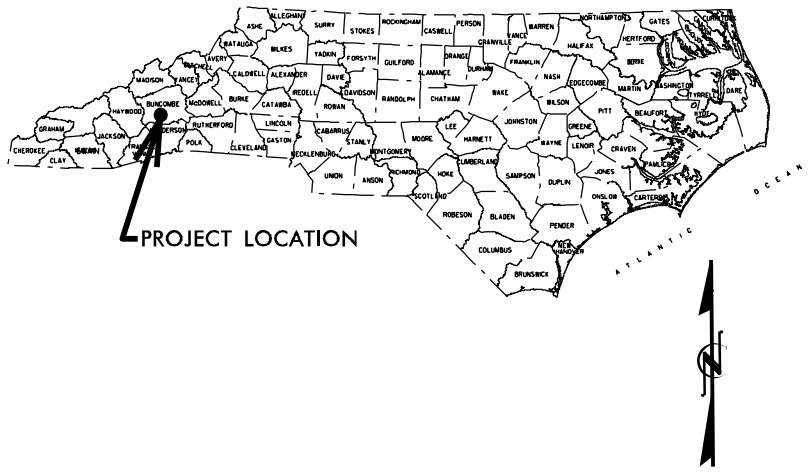
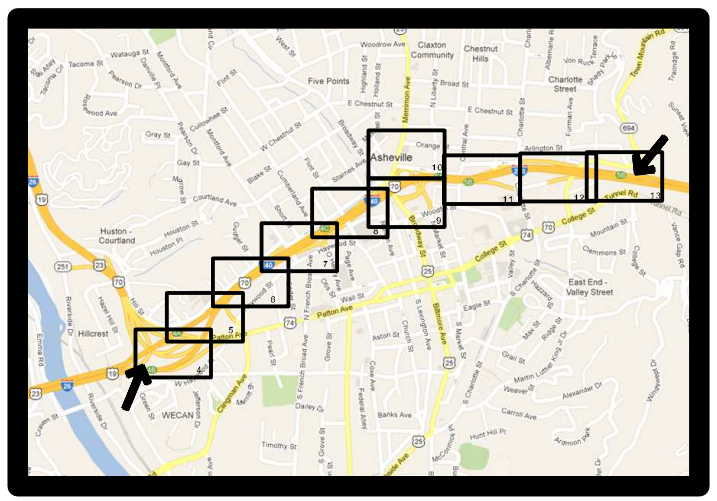
PROPOSED HIGHWAY LANDSCAPE DEVELOPMENT PROJECT

T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
NA	3713.22	1	14
FED. PROJ. #	DESCRIPTION		DIVISION
NA	I-240 'Core Corridor'		13

PROJECT: Buncombe County, I-240 Landscape Planting



Vicinity Map



General Notes:

A Partial Plant Bed Renovation: Retain existing Daylilies. During dormant season, cut top growth as low as possible without damaging the crown. Remove exisitng Sedum and Russian Sage. Prepare and treat these areas as a new plant bed. Replant with proposed plants.

B Special Vegetation Cleanup acreage is an estimate. Exact areas will be defined by the Engineer in the field. See special provision 'Special Vegetation Cleanup'.

C Perform Special Vegetation Cleanup. Prune trees in this area lifting canopy to an approximate six foot clearance, remove dead, damaged or broken limbs and correct structural defects. Add proposed additional trees at locations to be staked in the field. Mulch trees in groupings as directed by the Engineer in the field.

D Plant Bed Renovation; remove all remnant Daylilies and turf vegetation, treat and mulch proposed plant bed as outlined by the plant bed perimeter. Remove remnant vegetation in area outside of proposed plant bed perimeter, and reseed to return to turf. Add proposed trees at locations to be staked in the field. Prune existing trees lifting canopy to an approximate six foot clearance, remove dead, damaged and broken limbs and correct structural defects. Mulch new and retained existing trees in groupings as directed by the Engineer in the field.

E Plant Bed Renovation; remove all existing vegetation unless otherwise directed in the field. Treat and prepare as a bed. Plant as shown.

F Plant Bed Renovation; do not remove any existing vegetation unless directed to do so by the Engineer in the field. Add additional plant material as shown and remulch bed.

G Under the direct supervision of the Engineer, selectively prune existing shade and ornamental trees lifting canopy to an approximate six foot clearance, remove dead, damaged and broken limbs and correct structural defects. Add proposed trees at locations to be staked in the field.

H Plant Bed Renovation; unless otherwise directed by the Engineer in the field, remove all existing vegetation except trees labeled as existing to retain. At the direction of the Engineer in the field, prune trees to lift canopy, remove dead and damaged limbs and correct structural defects. Add additional plant material as shown and remulch bed. Minimize all impacts to retained trees.

I Retain existing vegetation. During dormant season, prune approximately 20% for size reduction.

J Plant Bed Renovation; remove all existing vegetation, treat and prepare as an annual bed. Initial planting will consist of annuals. Annuals will be replaced with perennial planting during appropriate planting season following summer of 2013.

✻ Mulch all new and renovated plant beds.

Annual Bed Planting Notes:

Annual plant quantities are estimates and the total number required for each bed shall be adjusted in the field as needed.

Annual plant bed perimeters will be within established plant beds. In some cases, only portions of exisitng plant beds will be utlized for annual planting. The contractor will stake the proposed annual bed perimeters and the Engineer will approve the staking prior to any plant bed preparation.

Remove and dispose of all vegetation, including root mass within the proposed annual planting beds. In proposed beds where permanent plant material shall remain, trench at the edge of the proposed annual bed to a depth of 12". To avoid shredding, smoothly cut roots one inch or greater in diameter of plants to remain.

Thoroughly till soil to ensure all clods are broken. Apply soil amendments and uniformly incorporate to a min. depth of 8" to create a fine planting medium.

Soil amendments shall be aged pine bark fines, fertilizer and lime. Unless otherwise directed by the Engineer in the field, apply a uniform 4" depth of aged pine bark fines and thoroughly incorporate. Apply fertilizer and lime and thoroughly incorporate.

2" of new pine bark fines shall be applied as a mulch prior to installation of the annuals. Annual layout and patterns shall be staked and approved by the Engineer, in each of the beds prior to installation.

Foliar water soluable fertilizer applications, pest and disease control shall be required throughout the establishment and growing season as needed, as determined by the Engineer in the field.

At the end of the annual bed's season, all vegetation shall be removed. Permanent plants shall be installed to replace the annuals during the appropriate seasonal limitation for the plant species and the bed shall receive 2" to 4" of 'Mulch for Planting'.

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
- Exist. Telephone Pole
- Prop. Telephone Pole
- Tower Pole and Line
- Exist. Power Pole
- Prop. Power Pole
- Sanitary Sewer Line
- Water Line
- Gas Line
- Picnic Shelter
- Regeneration
- Reforestation

INDEX OF L SHEETS:

1.....Title, Description, Notes
2.....Summary of Quantities
3.....Planting Details
4–13..Landscape Plans
14.....Bed Details

PREPARED BY:	CSM
PRELIMINARY DESIGN DATE:	Oct. 10, 2012
REVISION DATE:	
FINAL DESIGN DATE:	Oct. 31, 2012

I-240 'Core Corridor'

STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

LOCATION: I-240 from just east of the French Broad River (Mile Post 3.4) to just west of the Beaucatcher Cut (Mile Post 5.4) in Asheville

TYPE of WORK: Landscape Planting

COUNTY: Buncombe County

DIVISION 13

2004 American Standard for Nursery Stock

2012 NCDOT STANDARD SPECIFICATIONS

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

SUMMARY OF QUANTITIES

Quan.	Key	Unit	Botanical Name	Common Name	Furnish	ASNS	Spacing
Ornamental Trees							
17	CFP	EA	***Cercis canadensis 'Forest Pansy'***	Forest Pansy Redbud	2-21/2" Cal., B&B, Single straight trunk, Heavily branched, Matched specimens	1.2.3	36' OC
8	CAP	EA	***Cercis canadensis 'Appalachian Red'***	Appalachian Red Redbud	4-5', Single Stem, Well Branched	1.2.3	To be field staked
15	CV	EA	***Chionanthus virginicus***	Fringe Tree	3-4', Clump, Min. 2 stems, Max. 5 stems, Well Branched	1.3.2	To be field staked
21	CAS	EA	***Cornus florida 'Appalachian Spring'***	Appalachian Spring Flowering Dogwood	4-5', Single Stem, Well Branched	1.2.4	To be field staked
12	CR	EA	***Cornus x 'Rutban'***	Aurora Dogwood	2-21/2" Cal., B&B, Single straight trunk, Heavily branched, Matched specimens	1.2.4	As shown
29	OA	EA	***Oxydendron arboreum***	Sourwood	4-5', Single Straight Trunk, Well branched	1.2.3	To be field staked
10	PY	EA	***Prunus x yedoensis 'Akebono'***	Akebono Cherry	2 1/2 - 3" Cal., B&B, Single straight trunk, Heavily branched, Matched specimens	1.2.3	20' OC unless otherwise directed
Conifer and Evergreen Trees							
75	IL	EA	***Ilex x 'Emily Bruner'***	Emily Bruner Holly	Min. 4', #15 Cont., Heavy and full to ground	4.2.4	As shown
31	PO	EA	***Picea omorika***	Serbian Spruce	12-14', B&B, Full to ground, Matched specimens	3.2.4	As shown
12	PBW	EA	***Picea omorika 'Berliner's Weeper'***	Berliner's Weeping Serbian Spruce	#20 Cont., N, Heavily Branched Specimens	3.2.6	As shown
8	PP	EA	***Picea pungens 'Blue Select'***	Blue Select Colorado Spruce	12-14', B&B, Full to ground, Matched specimens	3.2.4	As shown
3	TO	EA	***Thuja occidentalis 'Smaragd'***	Emerald Arborvitae	5-6', B&B, Full, Matched Specimens	3.2.6	As shown
30	TP	EA	***Thuja x 'Green Giant'***	Green Giant Arborvitae	Min. 4', #15 Cont., Heavy and full to ground	3.2.6	As shown
Shrubs							
1,011	BBC	EA	***Buddleia x Lo and Behold 'Blue Chip' PPAF***	Lo and Behold Blue Chip Buddleia	15-18" Height and Spread, #3 Cont., Fully rooted into the cont., Heavily branched, Min. 3 canes, prefer more	2.2.2	3' OC
29	CSC	EA	***Clethra alnifolia 'Sixteen Candles'***	Sixteen Candles Summersweet	18-24" Height and Spread, #3 Cont., Fully rooted into the cont., Heavily branched, Min. 3 canes, prefer more	2.2.2	3' OC
423	EA	EA	***Euonymus alatus 'Odom'***	Little Moses Burning Bush	15-18" Height and Spread, #3 Cont., Fully rooted into the cont., Heavily branched	2.2.2	3' OC
292	HBV	EA	***Hypericum x 'Blue Velvet'***	Blue Velvet Hypericum	15-18" Height and Spread, #3 Cont., Fully rooted into the cont., Heavily branched	2.2.2	3' OC
25	IV	EA	***Ilex verticillata 'Winter Red' 10% 'Southern Gentlemen' for pollination***	Winter Red (22) and Southern Gentlemen (3) Winterberry	18-24" Height and Spread, #3 Cont., Fully rooted into the cont., Heavily branched, Min. 3 canes, prefer more	2.2.4	5' OC
22	RC	EA	***Rhododendron catawbiense***	Catawba Rhododendron	18-24" Height and Spread, #3 Cont., Fully rooted into the cont., Heavily branched, Min. 3 canes, prefer more	4.2.4	5' OC
480	RPD	EA	***Rosa x 'Meijocos' PP#18874, CPBRAF***	Pink Drift Rose	15-18" Height and Spread, #3 Cont., Fully rooted into the cont., Heavily branched	5.6	2' OC
383	RSD	EA	***Rosa x 'Meiswetdom' PP#21612***	Sweet Drift Rose	15-18" Height and Spread, #3 Cont., Fully rooted into the cont., Heavily branched	5.6	2' OC
Perennials							
1,052	ICB	EA	***Iris sibirica 'Ceasar's Brother'***	Ceasar's Brother Siberian Iris	#1 Cont., Must be fully rooted into this container with full top growth and weed free	12.2.5	2' OC

Other Items			
Quan.		**Unit**	**Description**
1		LS	**Post-Emergence Herbicidal Treatment for Plant Beds (approx. 14,503 SY)**
1		LS	**Pre-Emergence Herbicidal Treatment for Plant Beds (approx. 14,503 SY)**
2,759		CY	**Mulch for Planting (Includes Annual Beds)**
380		CY	**Amendment for Annuals**
120		M/G	**Water for Planting**
153		M/G	**Water for Annuals**
1		LS	**Special Vegetation Removal (approximately 3.2 Acres)**
1		LS	**Special Vegetation Removal with pruning (approximately 0.8 Acres)**
15		EA	**Selective Tree Removal, 6"**
8		EA	**Selective Tree Removal, 10"**
5		EA	**Selective Tree Removal, 15"**
3		EA	**Selective Tree Removal, 18"**
4046		EA	**Installation and Establishment of Annuals in 4" Pots**
403		EA	**Installation and Establishment of Annuals in #1 Cont.**
6262		EA	**Installation and Establishment of Perennials and Grasses in 4" Pots**
9300		EA	**Installation and Establishment of Perennials and Grasses in #1 Cont.**
1		LS	**Selective Pruning**
17		Each	**Monthly Establishment Work Cycle**

The following plant material will be contract grown for NCDOT and furnished to the Landscape Contractor for installation
(Due to availability furnish sizes may vary from those shown on this summary.)

Quan.	Key	Unit	Botanical Name	Common Name	Furnish	ASNS	Spacing
Grasses and Sedges							
5,407	CP	EA	***Carex pennsylvanica***	Pennsyvania Sedge	3 1/2-4" deep Pots, Tray of 18	12.1.3	12" OC
855	PRR	EA	***Panicum virgatum 'Ruby Ribbons' 'RR1' PP17944***	Ruby Ribbons Switchgrass	#1 Cont.	12.1.3	3' OC
2,216	PVS	EA	***Panicum virgatum 'Shenandoah***	Shenandoah Switchgrass	#1 Cont.	12.1.3	3' OC
4,787	SS	EA	***Schizachyrium scoparium 'The Blues' or 'Prairie Blue'***	The Blues or Prairie Blue Little Bluestem	#1 Cont.	12.1.3	2' OC
Perennials							
1,245	SAJ	EA	***Sedum 'Autumn Joy'***	Autumn Joy Sedum	#1 Cont.	12.1.3	2' OC
Annuals							
1,279	ILG	EA	***Ipomoea 'Sweet Caroline Light Green'***	Light Green Sweet Potato	4" Deep Pots., Flat of 15	NA	2' OC
827	IR	EA	***Ipomoea 'Sweet Caroline Raven'***	Raven Sweet Potato	4" Deep Pots., Flat of 15	NA	2' OC
403	PSR	EA	***Pennisetum setaceum 'Rubrum'***	Purple Fountain Grass	#1 Cont.	NA	3' or As Shown
601	PDR	EA	***Pentas lanceolata 'Butterfly Deep Rose'***	Butterfly Deep Rose Star Cluster	4" Deep Pots., Flat of 15	NA	12" OC
811	PPW	EA	***Petunia x hybrida 'Purple Wave Classic'***	Classic Purple Wave Petunia	4" Deep Pots., Flat of 15	NA	2' OC
122	SVL	EA	***Solenostemon scutellarioides 'Versa Lime'***	Versa Lime Coleus	4" Deep Pots., Flat of 15	NA	18" OC
406	SPS	EA	***Strobilanthes dyeriaus 'Persian Shield'***	Persian Shield	4" Deep Pots., Flat of 15	NA	18" OC

NCDOT - ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT
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HTTP://WWW.NCDOT.ORG/DOH/OPERATIONS/DP_CHIEF_ENG/ROADSIDE/

I-240 ASHEVILLE, NC
CORE CORRIDOR PLANTING
I-240 FROM MILE POST 3.4 TO 5.4

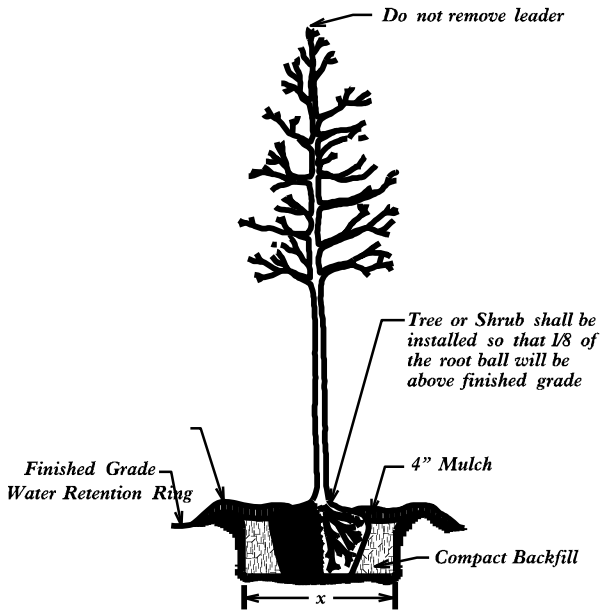
Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:
LANDSCAPE DEVELOPMENT
SUMMARY OF QUANTITIES

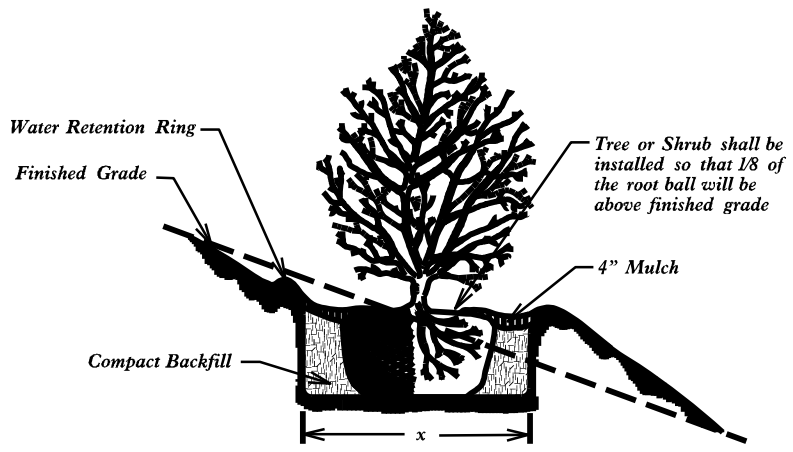
PRELIMINARY DESIGN DATE: OCT 10, 2012
FINAL DESIGN DATE: OCT 31, 2012
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

SEAL OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

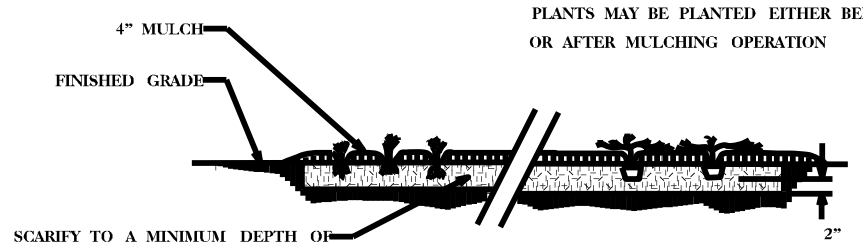
SHEET NO: 2
TOTAL SHEET NO: 14



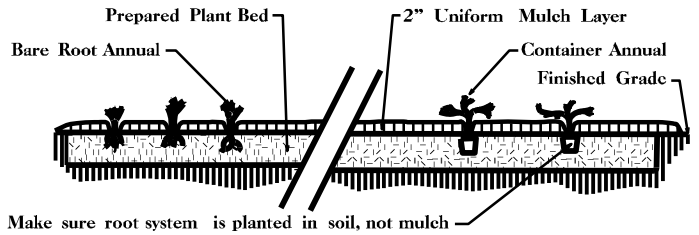
Tree or Shrub Planting Detail (Level Ground)



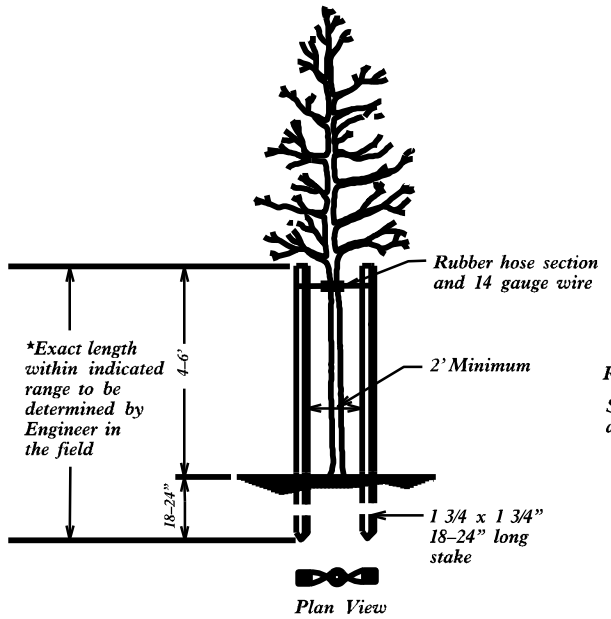
Tree or Shrub Planting Detail (Sloping Ground)



Ground Cover Planting Detail

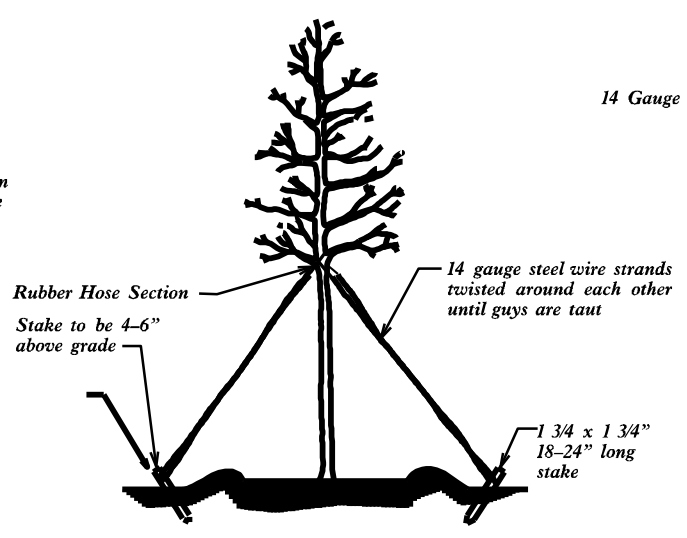


Annual Bed Planting Detail



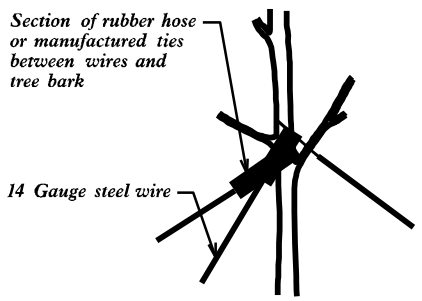
Staking Detail (for trees 6' to 10')

* Utilize staking detail only if requested by the Engineer.

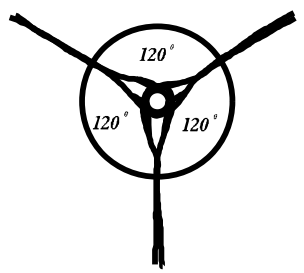


Tree Guying Detail (for trees 10' or larger)

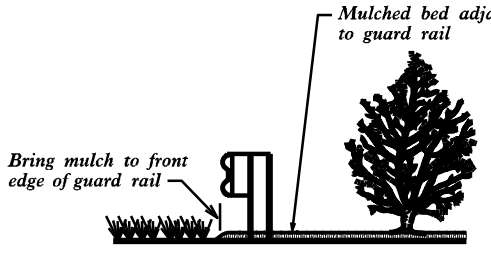
* Utilize guying detail only if requested by the Engineer.



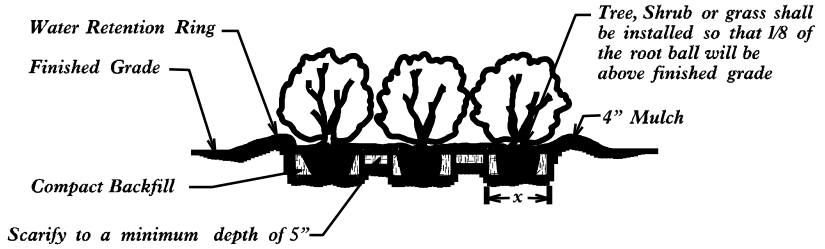
Guy Tying Detail



Guy Spacing Detail



Bed /Guard Rail Detail



Bed Planting Detail

Notes:

- *Schedule for Plant Hole 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 field. Rates shall be per manufacturer's recommendations and approved by engineer in field. Thouroughly mix with topsoil, backfill or scarified soil.*
- *Cut and remove wire basket and remove burlap around top of root ball to expose root collar before backfilling. Set root ball at grade or slightly above as directed by the Engineer depending on soil type at installation site. Do not place mulch within 12" of tree trunk or 6" of shrub trunk.*
- *When mulched bed is adjacent to guard rail run mulch to front edge of guard rail – see detail*

NCDOT - ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT
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I-240 Asheville, NC
Core Corridor Planting
I-240 from Mile Post 3.4 to 5.4

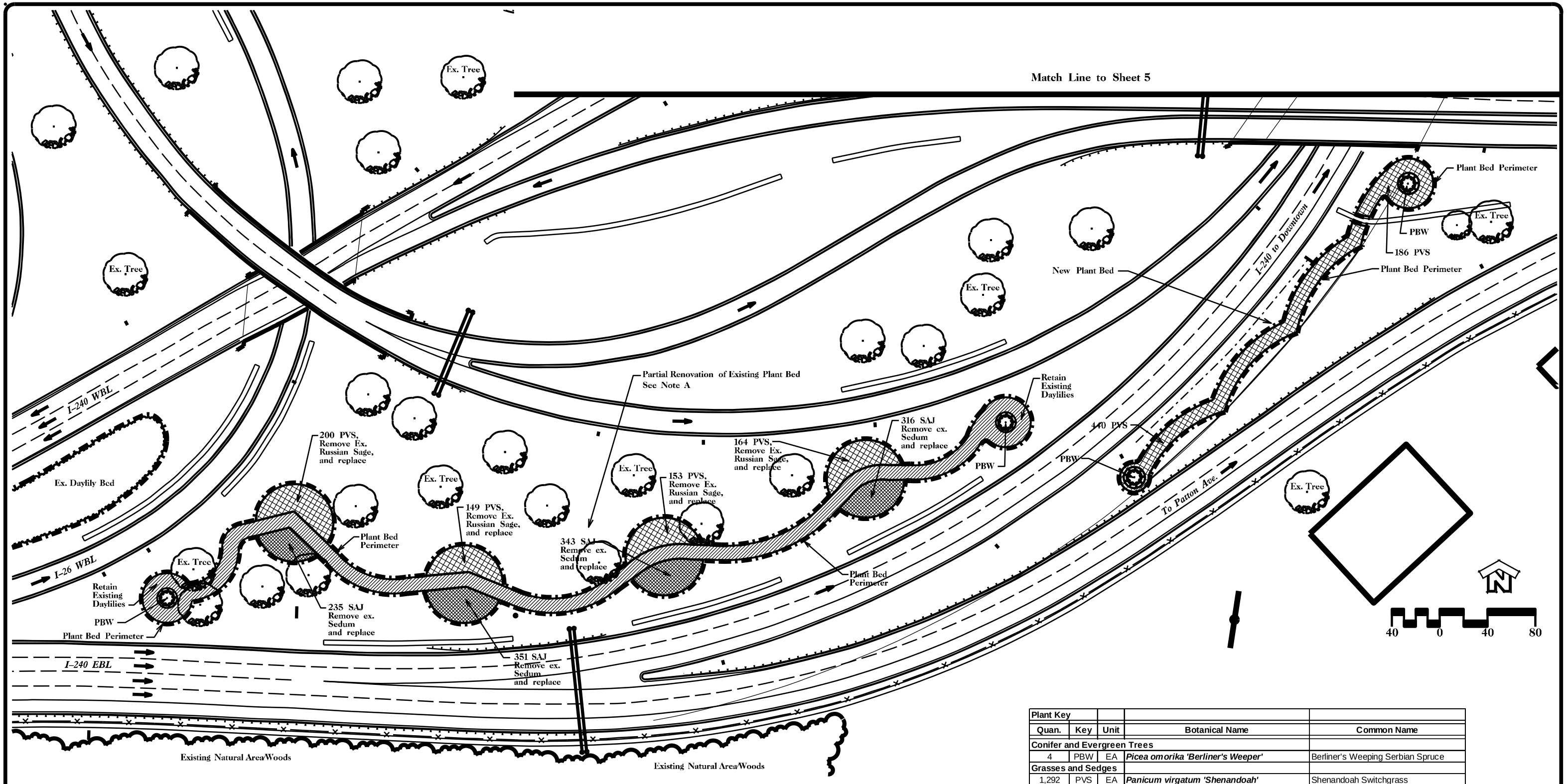
Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:
LANDSCAPE DEVELOPMENT
PLANTING DETAILS

PRELIMINARY DESIGN DATE: OCT 10, 2012
FINAL DESIGN DATE: OCT 31, 2012
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SHEET NO: 3
TOTAL SHEET NO: 14



Plant Key				
Quan.	Key	Unit	Botanical Name	Common Name
Conifer and Evergreen Trees				
4	PBW	EA	***Picea omorika 'Berliner's Weeper'***	Berliner's Weeping Serbian Spruce
Grasses and Sedges				
1,292	PVS	EA	***Panicum virgatum 'Shenandoah'***	Shenandoah Switchgrass
1,245	SAJ	EA	***Sedum 'Autumn Joy'***	Autumn Joy Sedum

NCDOT - ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT
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I-240 Asheville, NC
Core Corridor Planting
I-240 from Mile Post 3.4 to 5.4

Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:
LANDSCAPE DEVELOPMENT
LANDSCAPE PLAN

PRELIMINARY DESIGN DATE: OCT 10, 2012
FINAL DESIGN DATE: OCT 31, 2012
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

SHEET NO: 4
TOTAL SHEET NO: 14

Plant Key				
Quantity	Key	Unit	Botanical Name	Common Name
Ornamental Trees				
8	CAP	EA	***Cercis canadensis 'Appalachian Red'***	Appalachian Red Redbud
8	CAS	EA	***Cornus florida 'Appalachian Spring'***	Appalachian Spring Flowering Dogwood
Conifer and Evergreen Trees				
6	PO	EA	***Picea omorika***	Serbian Spruce

Match Line to Sheet 6

Pedestrian Bridge

Remove existing declining Hemlock

Ex. Tree

I-240 WBL

I-240 EBL

Add 6 PO; exact locations to be staked in the field.

Existing Natural Area/Woods

Clingman Avenue

Hill Street

Add 8 CAP and 8 CAS; exact locations to be staked in the field

Special Vegetation Cleanup, See Note B (Approximately 0.6 Acres)

Existing Natural Area/Woods

Ex. Tree

Existing Daylily Bed

Ex. Tree

Existing Daylily Bed

I-240 WBL

I-240 EBL

N

40 0 40 80

Match Line to Sheet 4

NCDOT - ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT
1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557
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I-240 Asheville, NC
Core Corridor Planting

I-240 from Mile Post 3.4 to 5.4

Connie Morgan
REU Engineer

SHEET DESCRIPTION:

LANDSCAPE DEVELOPMENT

LANDSCAPE PLAN

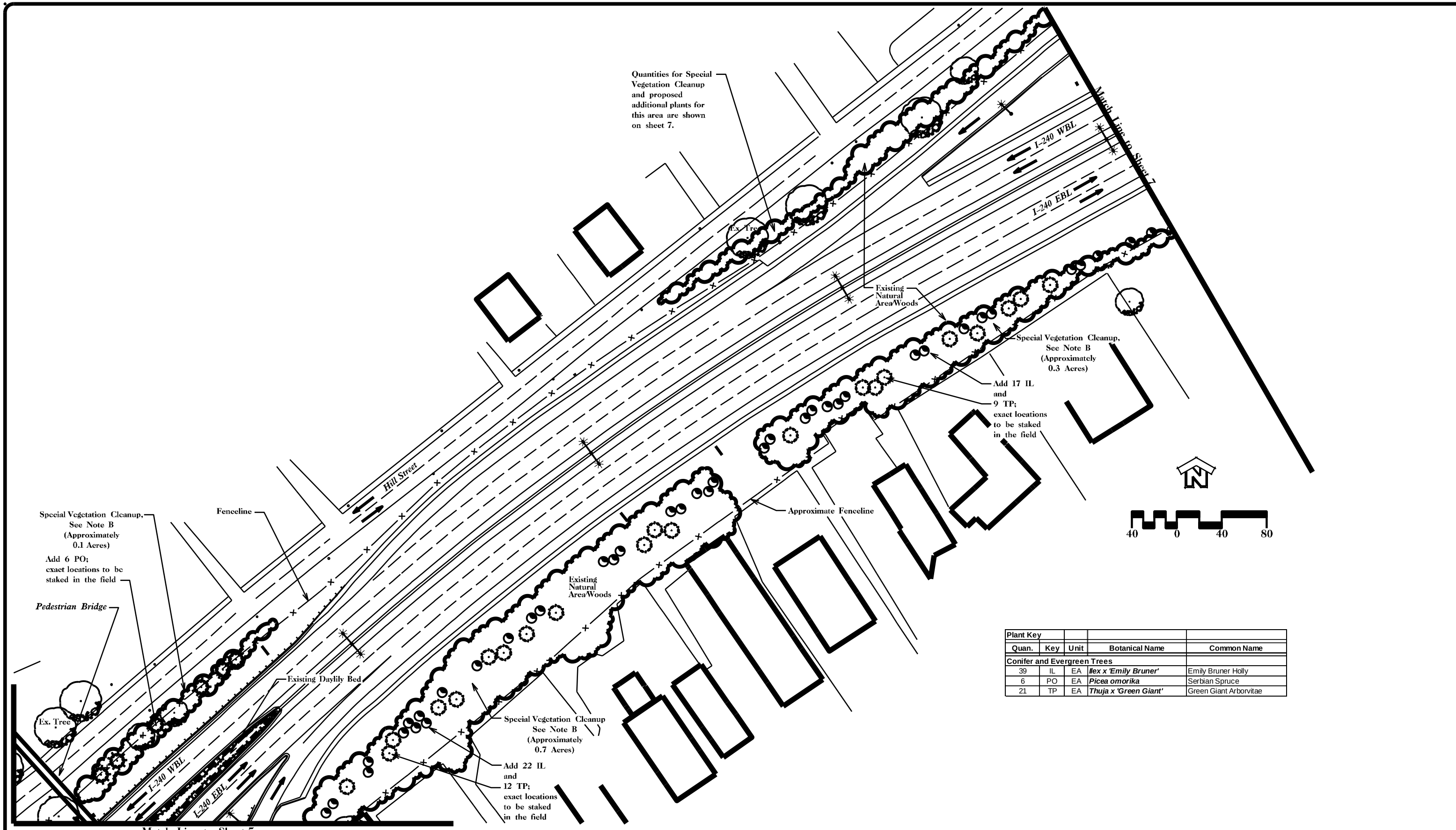
PRELIMINARY DESIGN DATE: OCT 10, 2012
FINAL DESIGN DATE: OCT 31, 2012

PROJECT: I-240 CORE CORRIDOR

DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

SHEET NO: 5

TOTAL SHEET NO: 14



Plant Key				
Quan.	Key	Unit	Botanical Name	Common Name
Conifer and Evergreen Trees				
39	IL	EA	*Ilex x 'Emily Bruner'*	Emily Bruner Holly
6	PO	EA	*Picea omorika*	Serbian Spruce
21	TP	EA	*Thuja x 'Green Giant'*	Green Giant Arborvitae

NCDOT - ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT
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PH: 919-707-2920 FAX: 919-715-2554
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I-240 Asheville, NC
Core Corridor Planting
I-240 from Mile Post 3.4 to 5.4

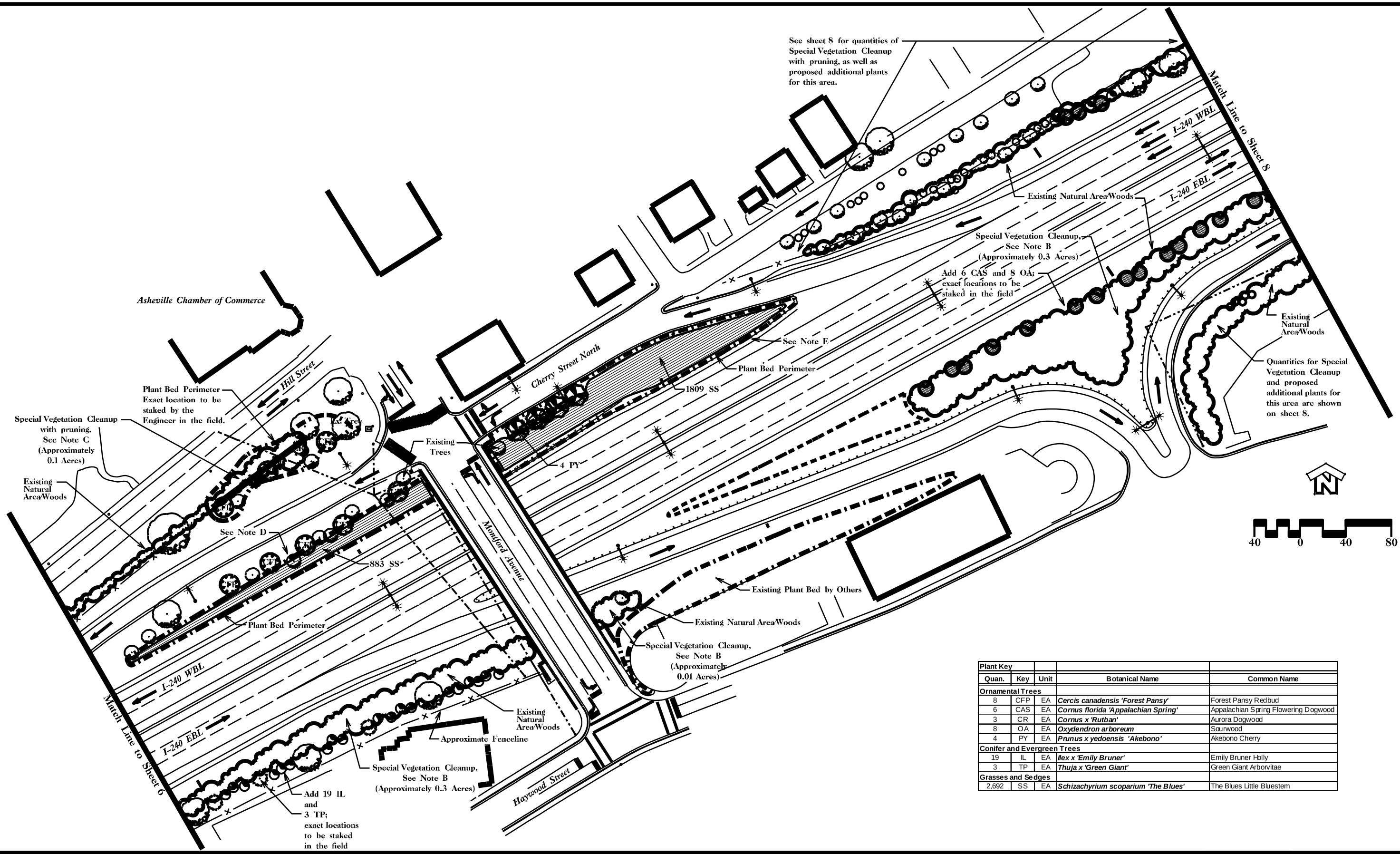
Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:
LANDSCAPE DEVELOPMENT
LANDSCAPE PLAN

PRELIMINARY DESIGN DATE: OCT 10, 2012
FINAL DESIGN DATE: OCT 31, 2012
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SHEET NO: 6
TOTAL SHEET NO: 14



Plant Key				
Quan.	Key	Unit	Botanical Name	Common Name
Ornamental Trees				
8	CFP	EA	***Cercis canadensis 'Forest Pansy'***	Forest Pansy Redbud
6	CAS	EA	***Cornus florida 'Appalachian Spring'***	Appalachian Spring Flowering Dogwood
3	CR	EA	***Cornus x 'Rutban'***	Aurora Dogwood
8	OA	EA	***Oxydendron arboreum***	Sourwood
4	PY	EA	***Prunus x yedoensis 'Akebono'***	Akebono Cherry
Conifer and Evergreen Trees				
19	IL	EA	***Ilex x 'Emily Bruner'***	Emily Bruner Holly
3	TP	EA	***Thuja x 'Green Giant'***	Green Giant Arborvitae
Grasses and Sedges				
2,692	SS	EA	***Schizachyrium scoparium 'The Blues'***	The Blues Little Bluestem

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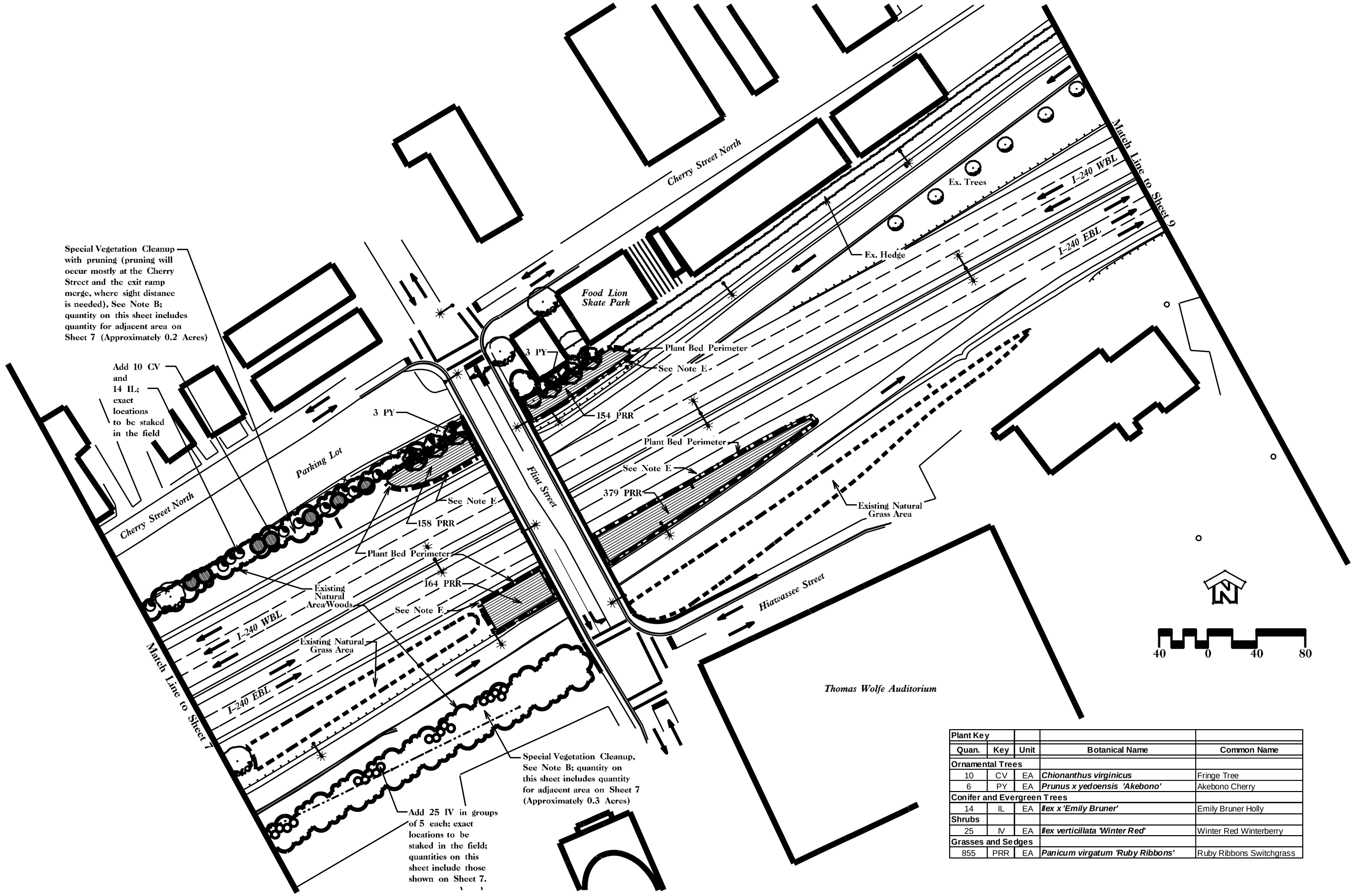
I-240 Asheville, NC
Core Corridor Planting
I-240 from Mile Post 3.4 to 5.4

Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:
LANDSCAPE DEVELOPMENT
LANDSCAPE PLAN

PRELIMINARY DESIGN DATE: OCT 10, 2012
FINAL DESIGN DATE: OCT 31, 2012
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

SHEET NO: 7
TOTAL SHEET NO: 14



Plant Key				
Quan.	Key	Unit	Botanical Name	Common Name
Ornamental Trees				
10	CV	EA	*Chionanthus virginicus*	Fringe Tree
6	PY	EA	*Prunus x yedoensis 'Akebono'*	Akebono Cherry
Conifer and Evergreen Trees				
14	IL	EA	*Ilex x 'Emily Bruner'*	Emily Bruner Holly
Shrubs				
25	IV	EA	*Ilex verticillata 'Winter Red'*	Winter Red Winterberry
Grasses and Sedges				
855	PRR	EA	*Panicum virgatum 'Ruby Ribbons'*	Ruby Ribbons Switchgrass

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I-240 Asheville, NC
Core Corridor Planting
I-240 from Mile Post 3.4 to 5.4

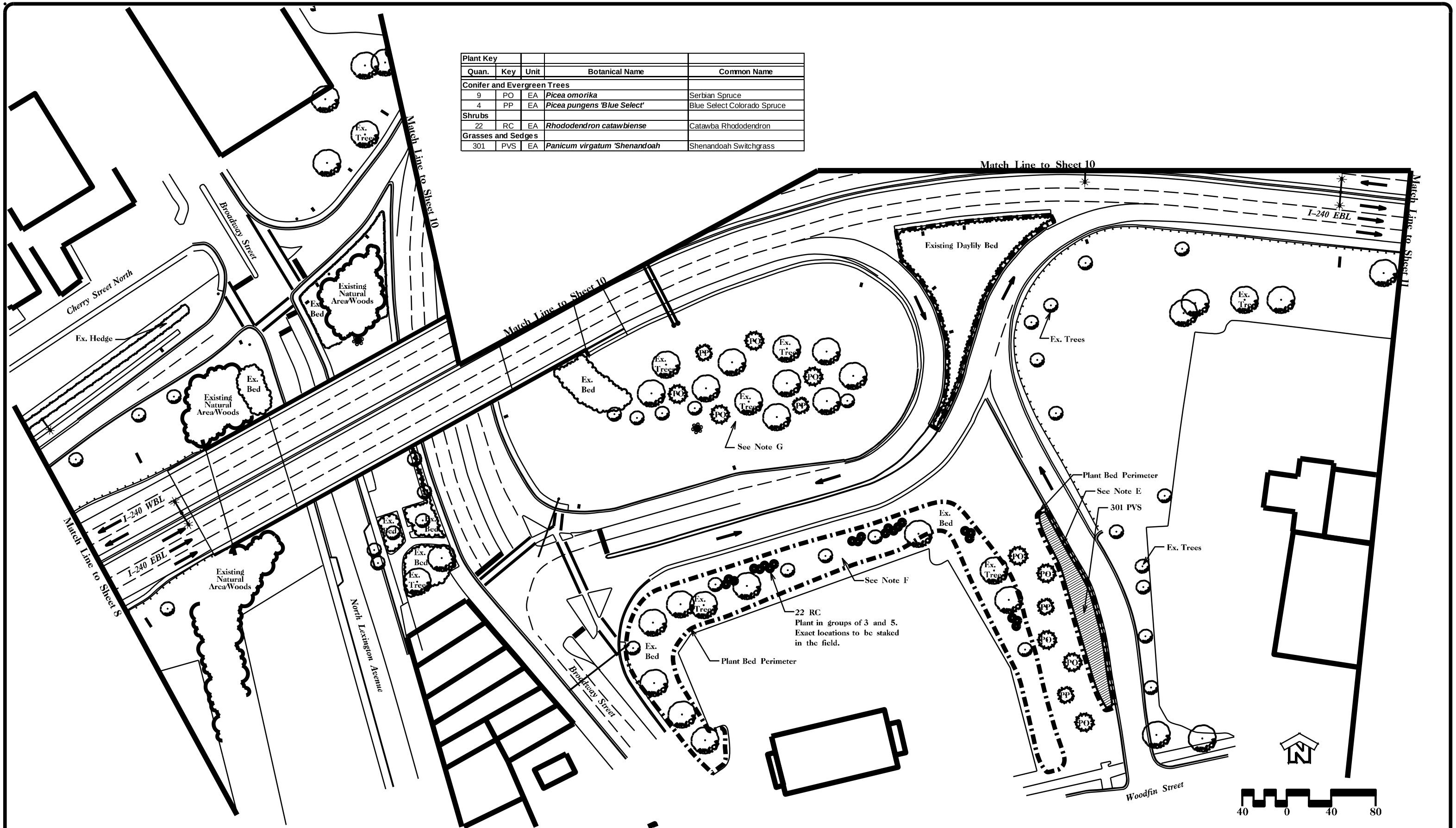
Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:
LANDSCAPE DEVELOPMENT
LANDSCAPE PLAN

PRELIMINARY DESIGN DATE: OCT 10, 2012
FINAL DESIGN DATE: OCT 31, 2012
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

SHEET NO: 8
TOTAL SHEET NO: 14

Plant Key				
Quan.	Key	Unit	Botanical Name	Common Name
Conifer and Evergreen Trees				
9	PO	EA	***Picea omorika***	Serbian Spruce
4	PP	EA	***Picea pungens 'Blue Select'***	Blue Select Colorado Spruce
Shrubs				
22	RC	EA	***Rhododendron catawbiense***	Catawba Rhododendron
Grasses and Sedges				
301	PVS	EA	***Panicum virgatum 'Shenandoah***	Shenandoah Switchgrass



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I-240 Asheville, NC
Core Corridor Planting
I-240 from Mile Post 3.4 to 5.4

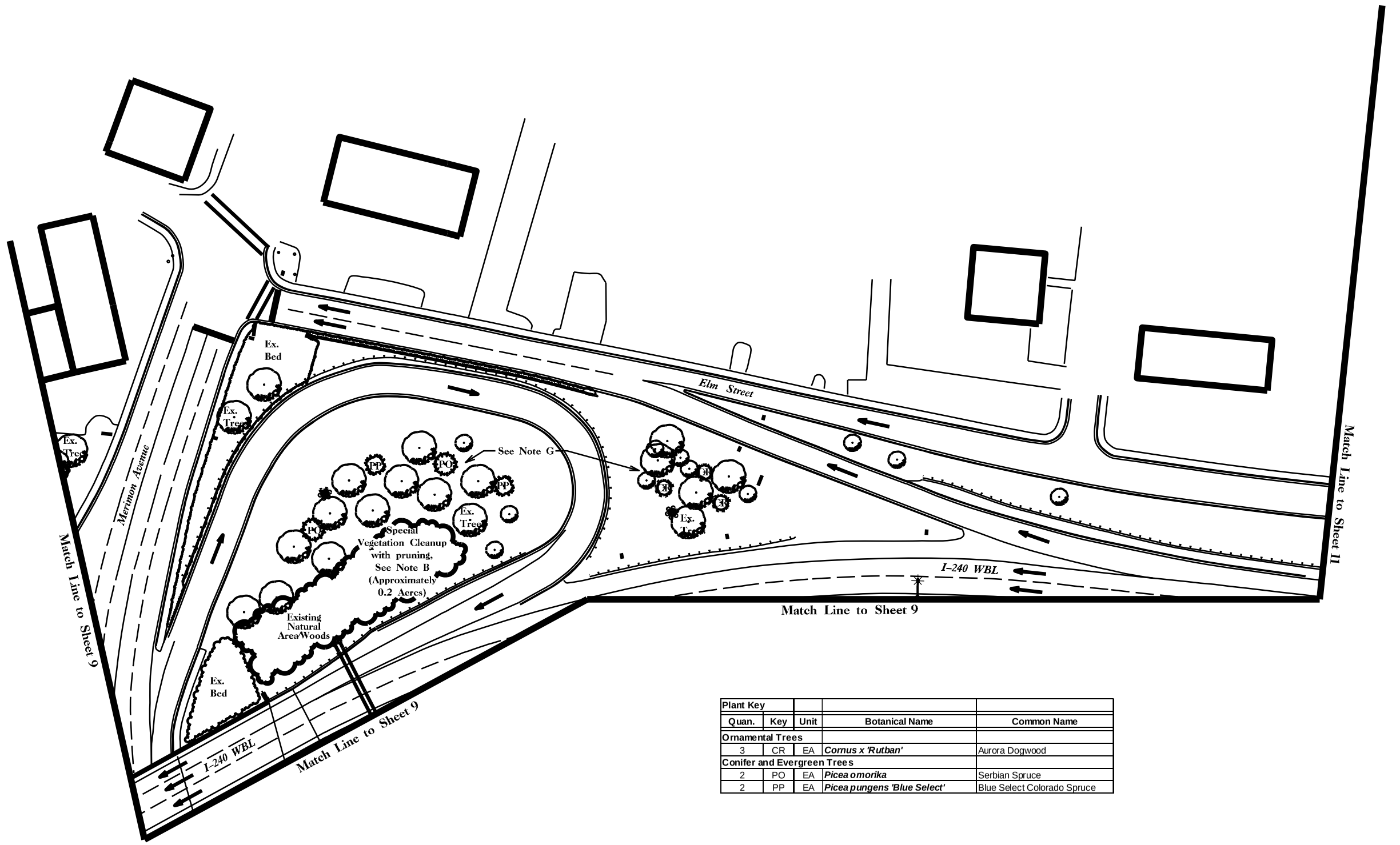
Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:
LANDSCAPE DEVELOPMENT
LANDSCAPE PLAN

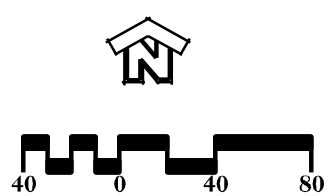
PRELIMINARY DESIGN DATE: OCT 10, 2012
FINAL DESIGN DATE: OCT 31, 2012
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SHEET NO: 9
TOTAL SHEET NO: 14



Plant Key				
Quan.	Key	Unit	Botanical Name	Common Name
Ornamental Trees				
3	CR	EA	***Cornus x 'Rutban'***	Aurora Dogwood
Conifer and Evergreen Trees				
2	PO	EA	***Picea omorika***	Serbian Spruce
2	PP	EA	***Picea pungens 'Blue Select'***	Blue Select Colorado Spruce



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LANDSCAPE DESIGN & DEVELOPMENT
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I-240 Asheville, NC
Core Corridor Planting
I-240 from Mile Post 3.4 to 5.4

Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:

LANDSCAPE DEVELOPMENT

LANDSCAPE PLAN

PRELIMINARY DESIGN DATE : OCT 10, 2012
FINAL DESIGN DATE : OCT 31, 2012
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

SHEET NO : 10
TOTAL SHEET NO : 14

Match Line to Sheet 10

Match Line to Sheet 9

Elm Street

I-240 WBL

I-240 EBL

Central Avenue

Orchard Street

Charlotte Street

Match Line to Sheet 12

Ex. Tree

1393 CP

Plant Bed Perimeter

See Note H

Retain and prune

CFP

Fence

3 IL

Plant Bed Perimeter

See Note E

Add 7 CAS and 5 OA; exact locations to be staked in the field

Special Vegetation Cleanup, See Note B (Approximately 0.3 Acres)

Existing Natural Area/Woods

Note: Install 3 TO with trees and shrubs in first intermediate competion date.

See Note J; See Detail C, Sheet 14

3 TO

Ex. Trees

See Note E

Plant Bed Perimeter, Re-mulch entire bed.

Retain existing trees as directed by the Engineer in the field.

Retain Existing Daylilies

Ex. Trees

176 HBV

Retain existing trees as directed by the Engineer in the field.

See Note H

144 PVS

Plant Bed Perimeter, Re-mulch entire bed.

61 PVS

See Note H

Plant Bed Perimeter, Re-mulch entire bed.

Retain Ex. Tree

See Note G

See Note J; See Detail A, Sheet 14

Plant Bed Perimeter

PP

Ex. Trees

Retain Existing Burning Bush See Note I

Plant Bed Perimeter, Re-mulch entire bed.

See Note E

373 PVS

Plant Bed Perimeter

Fence

Special Vegetation Cleanup with pruning, See Note B (Approximately 0.3 Acres)

Existing Natural Area/Woods

See Note J; See Detail B, Sheet 14

Plant Bed Perimeter, Re-mulch entire bed.

Retain Existing Daylilies

Retain Existing Burning Bush See Note I

Retain and prune

Fence

Existing Natural Area/Woods

See Note H

2218 CP

Plant Bed Perimeter

Central Avenue

1796 CP

Plant Bed Perimeter

See Note H

Add 3 OA and 3 PO; exact locations to be staked in the field

Special Vegetation Cleanup See Note B (Approximately 0.1 Acres)

Add 5 PO and 6 TP; exact locations to be staked in the field

Add 5 CV and 6 OA; exact locations to be staked in the field

N

40 0 40 80

Plant Key				
Quan.	Key	Unit	Botanical Name	Common Name
Ornamental Trees				
1	CFP	EA	***Cercis canadensis 'Forest Pansy'***	Forest Pansy Redbud
5	CV	EA	***Chionanthus virginicus***	Fringe Tree
7	CAS	EA	***Cornus florida 'Appalachian Spring'***	Appalachian Spring Flowering Dogwood
3	CR	EA	***Cornus x 'Rutban'***	Aurora Dogwood
14	OA	EA	***Oxydendron arboreum***	Sourwood
Conifer and Evergreen Trees				
3	IL	EA	***Ilex x 'Emily Bruner'***	Emily Bruner Holly
8	PO	EA	***Picea omorika***	Serbian Spruce
2	PP	EA	***Picea pungens 'Blue Select'***	Blue Select Colorado Spruce
3	TO	EA	***Thuja occidentalis 'Smaragd'***	Emerald Arborvitae
6	TP	EA	***Thuja x 'Green Giant'***	Green Giant Arborvitae
Shrubs				
176	HBV	EA	***Hypericum x 'Blue Velvet'***	Blue Velvet Hypericum
Grasses and Sedges				
5,407	CP	EA	***Carex pensylvanica***	Pensylvania Sedge
578	PVS	EA	***Panicum virgatum 'Shenandoah***	Shenandoah Switchgrass

NCDOT - ROADSIDE ENVIRONMENTAL UNIT

LANDSCAPE DESIGN & DEVELOPMENT

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I-240 Asheville, NC
Core Corridor Planting

I-240 from Mile Post 3.4 to 5.4

Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:

LANDSCAPE DEVELOPMENT

LANDSCAPE PLAN

PRELIMINARY DESIGN DATE: OCT 10, 2012

FINAL DESIGN DATE: OCT 31, 2012

PROJECT: I-240 CORE CORRIDOR

DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

SHEET NO: 11

TOTAL SHEET NO: 14

Match Line to Sheet 11

Match Line to Sheet 13

Existing Natural Area/Woods

Retain Existing Daylily Bed

See Note J;
See Detail D,
Sheet 14

Plant Bed Perimeter, re-mulch entire bed.

45 PVS

See Note H; Retain ex. trees as directed in the field.

Retain ex. trees as directed in the field.

Plant Bed Perimeter

116 HBV

I-240 WBL

I-240 EBL

See Note J;
See Detail E,
Sheet 14

Charlotte Street

Existing Natural Area/Woods

Plant Bed Perimeter

Ex. Trees

Woodfin Place

5 CFP

See Note H

Retain Ex. Tree

Plant Bed Perimeter

Ex. Trees

Add 7 OA, exact locations to be staked in the field; quantity includes plants shown on Sheet 13.

Existing Natural Area/Woods

Special Vegetation Cleanup, See Note B; quantity for adjacent area on Sheet 13 is included here. (Approximately 0.1 Acres)

Plant Bed Perimeter

3 CFP

See Note E

277 EA, includes quantity shown on Sheet 13

3 PBW

1172 SS

Ex. Trees

Plant Bed Perimeter

See Note E

Town Mountain Road

I-240 WBL

Ex. Trees

I-240 EBL

Plant Bed Perimeter

See Note E

2 PBW

923 SS

3 PBW

146 EA

Ex. Trees

College Place

N

40 0 40 80

Plant Key				
Quan.	Key	Unit	Botanical Name	Common Name
Ornamental Trees				
8	CFP	EA	*Cercis canadensis 'Forest Pansy'*	Forest Pansy Redbud
3	CR	EA	*Cornus x 'Rutban'*	Aurora Dogwood
7	OA	EA	*Oxydendron arboreum*	Sourwood
Conifer and Evergreen Trees				
8	PBW	EA	*Picea omorika 'Berliner's Weeper'*	Berliner's Weeping Serbian Spruce
Shrubs				
423	EA	EA	*Euonymus alatus 'Odom'*	Little Moses Burning Bush
116	HBV	EA	*Hypericum x 'Blue Velvet'*	Blue Velvet Hypericum
Grasses and Sedges				
45	PVS	EA	*Panicum virgatum 'Shenandoah*	Shenandoah Switchgrass
2,095	SS	EA	*Schizachyrium scoparium 'The Blues'*	The Blues Little Bluestem

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LANDSCAPE DESIGN & DEVELOPMENT
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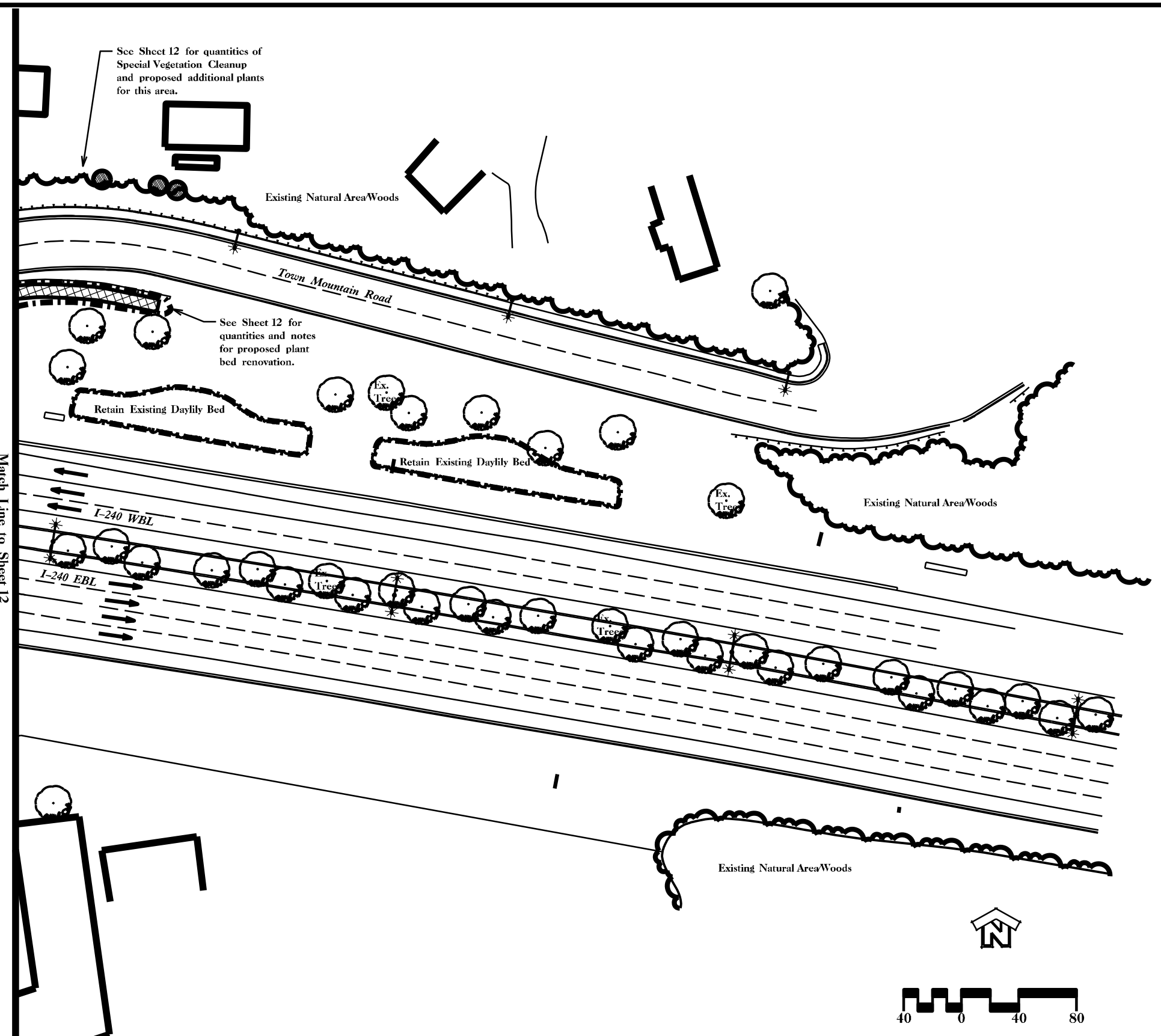
I-240 Asheville, NC
Core Corridor Planting
I-240 from Mile Post 3.4 to 5.4

Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:
LANDSCAPE DEVELOPMENT
LANDSCAPE PLAN

PRELIMINARY DESIGN DATE: OCT 10, 2012
FINAL DESIGN DATE: OCT 31, 2012
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

SHEET NO: 12
TOTAL SHEET NO: 14



Match Line to Sheet 12

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I-240 Asheville, NC
Core Corridor Planting
I-240 from Mile Post 3.4 to 5.4

Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:
LANDSCAPE DEVELOPMENT
LANDSCAPE PLAN

PRELIMINARY DESIGN DATE: OCT 10, 2012
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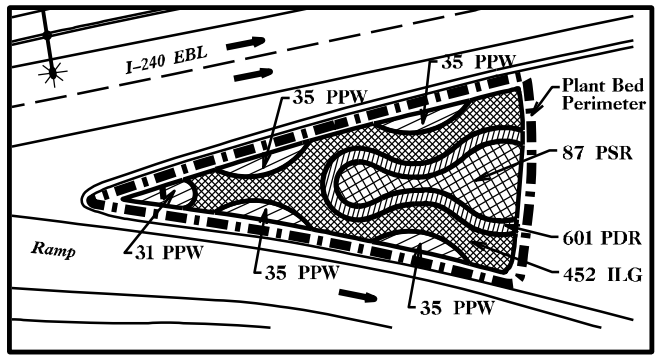
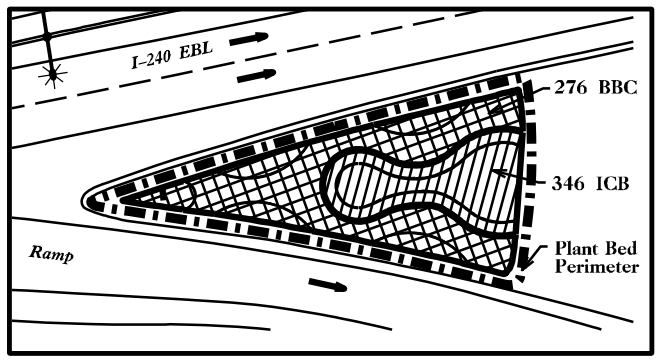
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SHEET NO: 13
TOTAL SHEET NO: 14

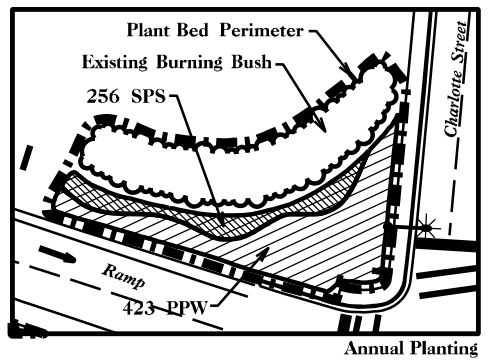


Annual Planting

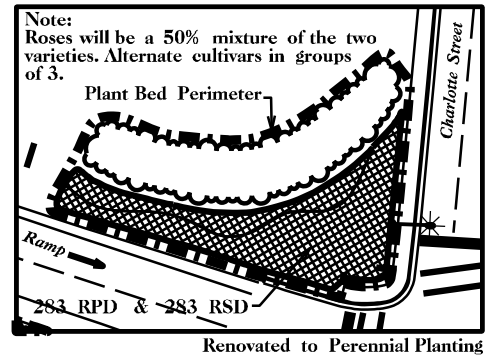


Renovated to Perennial Planting

Detail A

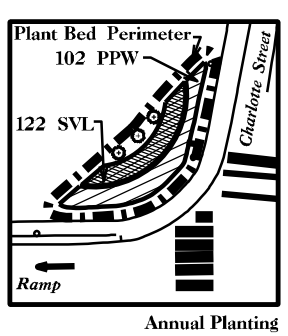


Annual Planting

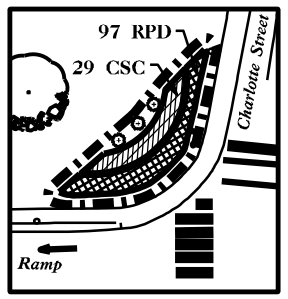


Renovated to Perennial Planting

Detail B

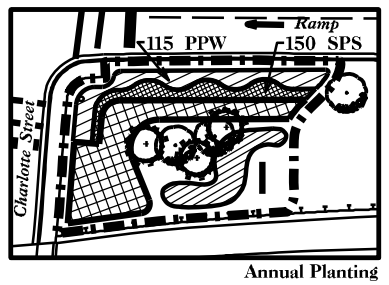


Annual Planting

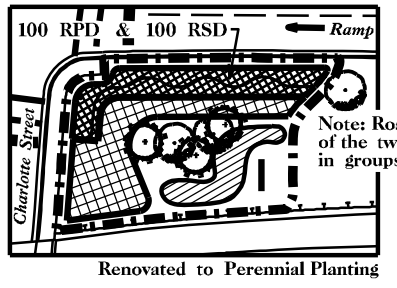


Renovated to Perennial Planting

Detail C



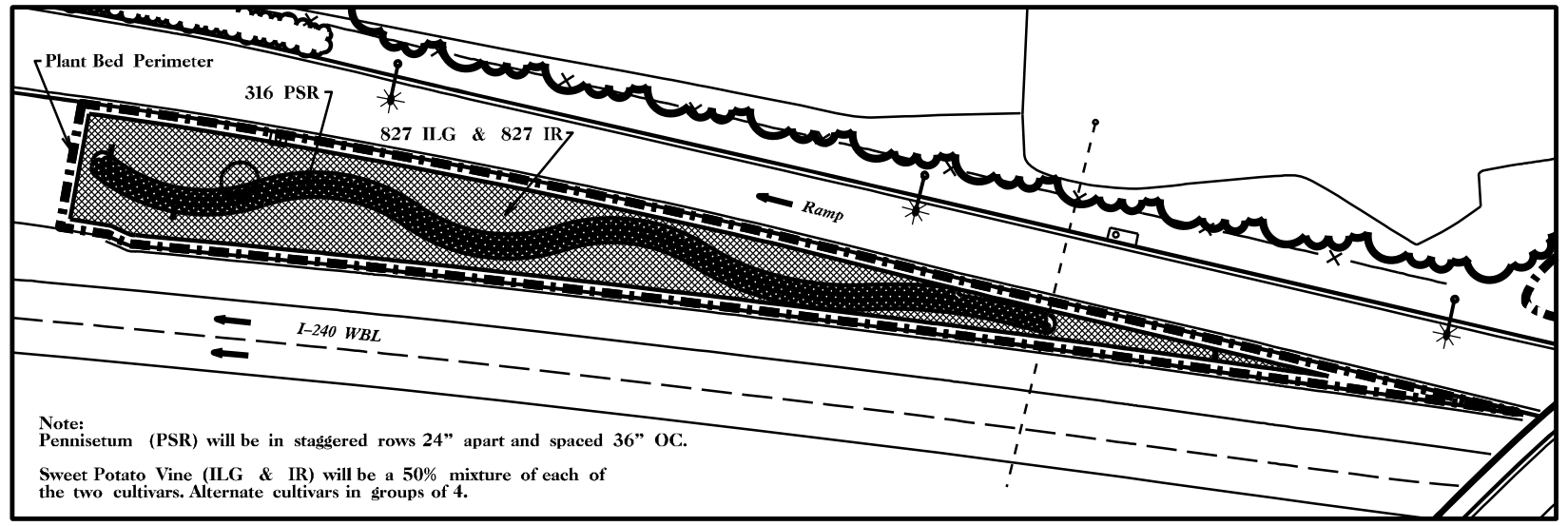
Annual Planting



Note: Roses will be a 50% mixture of the two varieties. Alternate cultivars in groups of 3.

Renovated to Perennial Planting

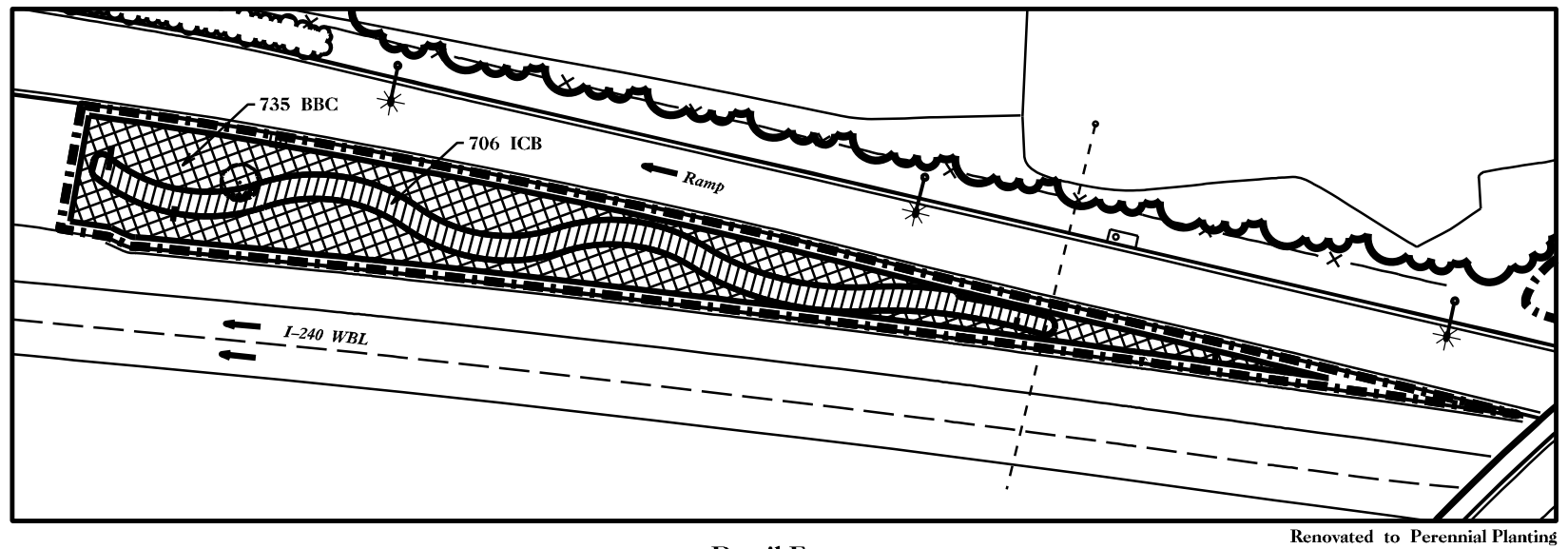
Detail D



Note:
Pennisetum (PSR) will be in staggered rows 24" apart and spaced 36" OC.

Sweet Potato Vine (ILG & IR) will be a 50% mixture of each of the two cultivars. Alternate cultivars in groups of 4.

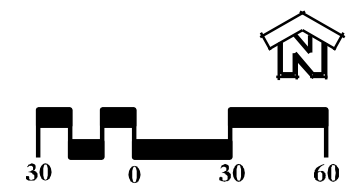
Annual Planting



Renovated to Perennial Planting

Detail E

Plant Key				
Quan.	Key	Unit	Botanical Name	Common Name
Shrubs				
1,011	BBC	EA	***Buddleia x Lo and Behold 'Blue Chip'***	Lo and Behold Blue Chip Buddleia
29	CSC	EA	***Clethra alnifolia 'Sixteen Candles'***	Sixteen Candles Summersweet
480	RPD	EA	***Rosa x 'Meijocos'***	Pink Drift Rose
383	RSD	EA	***Rosa x 'Meiswetdom'***	Sweet Drift Rose
Perennials				
1,052	ICB	EA	***Iris sibirica 'Ceasar's Brother'***	Ceasar's Brother Siberian Iris
Annuals				
1,279	ILG	EA	***Ipomoea 'Sweet Caroline Light Green'***	Light Green Sweet Potato
827	IR	EA	***Ipomoea 'Sweet Caroline Raven'***	Raven Sweet Potato
403	PSR	EA	***Pennisetum setaceum 'Rubrum'***	Purple Fountain Grass
601	PDR	EA	***Pentas lanceolata 'Butterfly Deep Rose'***	Butterfly Deep Rose Star Cluster
811	PPW	EA	***Petunia x hybrida 'Purple Wave Classic'***	Classic Purple Wave Petunia
122	SVL	EA	***Solenostemon scutellarioides 'Versa Lime'***	Versa Lime Coleus
406	SPS	EA	***Strobilanthes dyerianus 'Persian Shield'***	Persian Shield



Note

Existing plant beds will be renovated. Initial planting in Spring/Summer of 2013 will consist of annuals. Annuals will be replaced with perennial planting during appropriate planting season following summer of 2013.

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I-240 Asheville, NC
Core Corridor Planting

I-240 from Mile Post 3.4 to 5.4

Connie Morgan
REU ENGINEER

SHEET DESCRIPTION:

LANDSCAPE DEVELOPMENT

ANNUAL PLANTING AND RENOVATED PERENNIAL PLANTING DETAILS

PRELIMINARY DESIGN DATE: OCT 10, 2012
FINAL DESIGN DATE: OCT 31, 2012
PROJECT: I-240 CORE CORRIDOR
DIVISION AND COUNTY: DIVISION 13 - BUNCOMBE COUNTY

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SHEET NO: 14
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