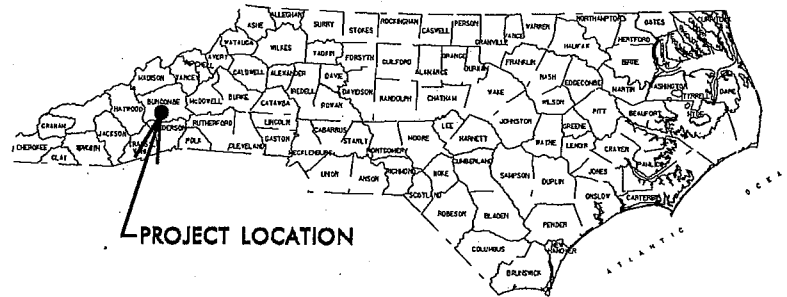


PROJECT: Buncombe County, I-240 Median Planting

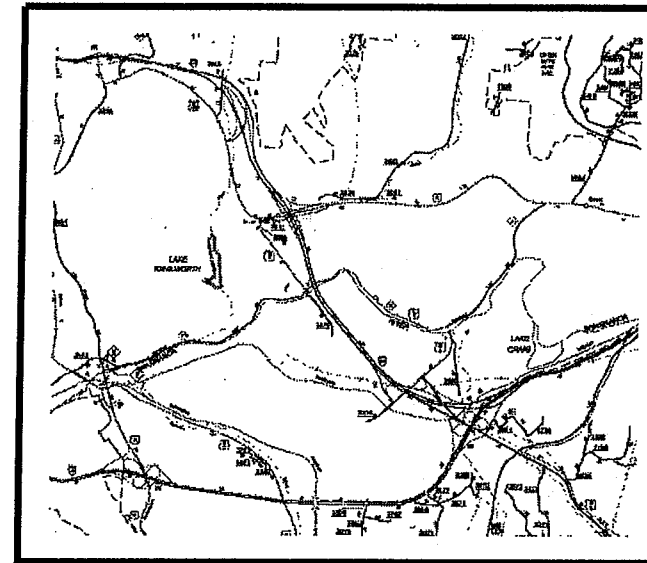
# PROPOSED HIGHWAY LANDSCAPE DEVELOPMENT PROJECT

|              |                        |          |               |
|--------------|------------------------|----------|---------------|
| T.I.P. #     | STATE PROJECT W.B.S. # | SHEET #  | SHEET # TOTAL |
| NA           | 33920.3.5              | 1        | 4             |
| FED. PROJ. # | DESCRIPTION            | DIVISION |               |
| NA           | I-240 Median           | 13       |               |



PROJECT LOCATION

Vicinity Map



Summary of Quantities

| Plant Materials         |      |  |   |                         |   |                |
|-------------------------|------|--|---|-------------------------|---|----------------|
| Quan.                   | Key  | Unit   | Botanical Name                          | Common Name             | Furnish   | ASNS Spacing   |
| <b>Ornamental Trees</b> |      |  |   |                         |   |                |
| 119                     | CC   | EA   | <i>Cercis canadensis</i> 'Forest Pansy' | Forest Pansy Redbud     | 2-2 1/2" Cal., B&B, Single straight trunk, Heavily branched, Matched specimens  | 1.2.3 36' OC   |
| 12                      | CR   | EA   | <i>Comus x 'Rutban'</i>                 | Aurora Dogwood          | 2-2 1/2" Cal., B&B, Single straight trunk, Heavily branched, Matched specimens  | 1.2.4 As shown |
| <b>Evergreens</b>       |      |  |   |                         |   |                |
| 65                      | IN   | EA   | <i>Ilex x 'Nellie R. Stevens'</i>       | Nellie R. Stevens Holly | 8-10", B&B, LS, Heavily branched to the ground, Full with no gaps, Matched specimens                                      | 4.2.5 12' OC   |
| <b>Shrubs</b>           |      |  |   |                         |   |                |
| 490                     | RK   | EA   | <i>Rosa x 'Radtko' PP# 16,202</i>       | Double Knock Out Rose   | 18-24" Height and Spread, #3 Cont., Grade No. 1, Fully rooted into the cont., Heavily branched, Min. 3 canes, prefer more | 5.6 6' OC      |
| <b>Grasses</b>          |      |  |   |                         |   |                |
| 400                     | PV   | EA   | <i>Panicum virgatum</i> 'Cloud Nine'    | Cloud Nine Switchgrass  | #1 Cont., Must be fully rooted into this container with full top growth and weed free                                     | 12.1.3 6' OC   |
| 502                     | SB   | EA   | <i>Spartina bakeri</i>                  | Cord Grass              | #1 Cont., Must be fully rooted into this container with full top growth and weed free                                     | 12.1.3 6' OC   |
| <b>Other Items</b>      |      |  |   |                         |   |                |
| Quan.                   | Unit | Description  |   |                         |   |                |
| 14,583                  | SY   | Post-Emergence Herbicidal Treatment for Plant Beds                       |   |                         |   |                |
| 14,583                  | SY   | Pre-Emergence Herbicidal Treatment for Plant Beds                        |   |                         |   |                |
| 2,035                   | CY   | Mulch for Planting   |   |                         |   |                |
| 26                      | M/G  | Water for Planting   |   |                         |   |                |
| 1                       | LS   | Removal of Existing Hawthorns (Approximately 256 trees of varying sizes) |   |                         |   |                |
| 11                      | EA   | Monthly Maintenance Cycle  |   |                         |   |                |

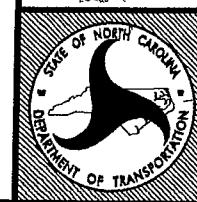
CONVENTIONAL SYMBOLS

|  |             |
|--|-------------|
| 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, and Summary of Quantities
- 2... Planting Schematic
- 3... Plant Bed Layout
- 4... Planting Details

PREPARED BY: CSM  
 PRELIMINARY DESIGN DATE: May 31, 2012  
 REVISION DATE:  
 FINAL DESIGN DATE: August 21, 2012

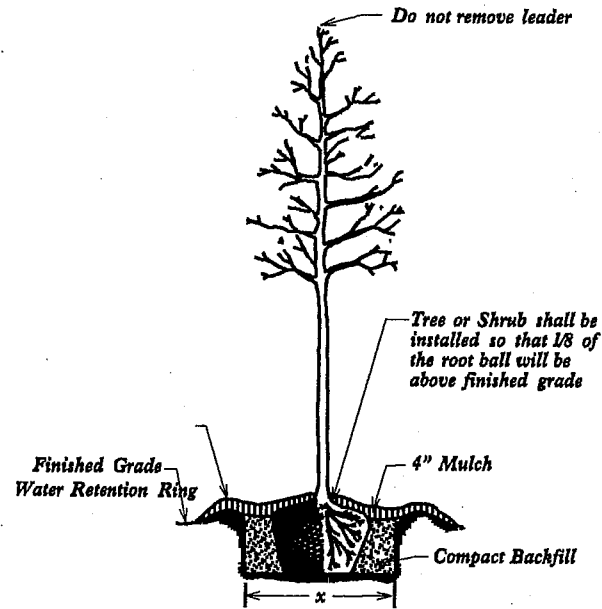


STATE OF  
**NORTH CAROLINA**  
 DEPARTMENT OF TRANSPORTATION

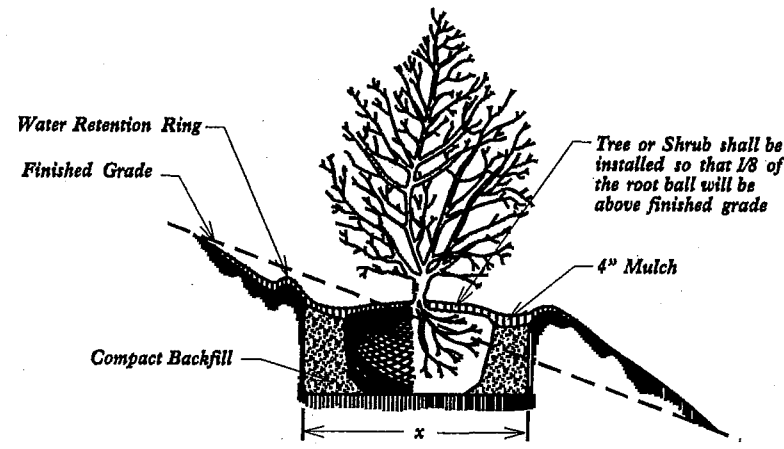
LOCATION: I-240 Median from Town Mountain Road to I-40 Interchange in east Asheville (excluding planter)  
 TYPE of WORK: Landscape Planting  
 COUNTY: **Buncombe County**

DIVISION  
13

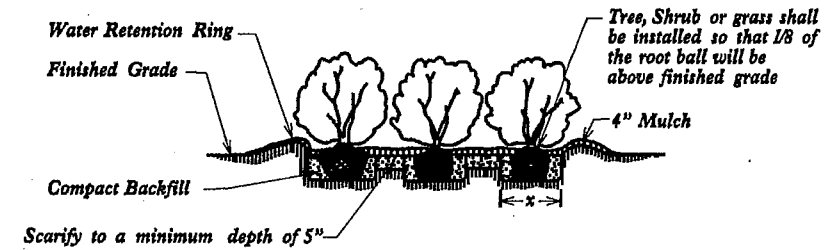
2004 American Standard for Nursery Stock  
 2012 NCDOT STANDARD SPECIFICATIONS  
 PREPARED IN THE OFFICE OF:  
 NCDOT- ROADSIDE ENVIRONMENTAL UNIT  
 LANDSCAPE DESIGN & DEVELOPMENT SECTION  
 1557 MAIL SERVICE CENTER  
 RALEIGH NC 27699 919-733-2920



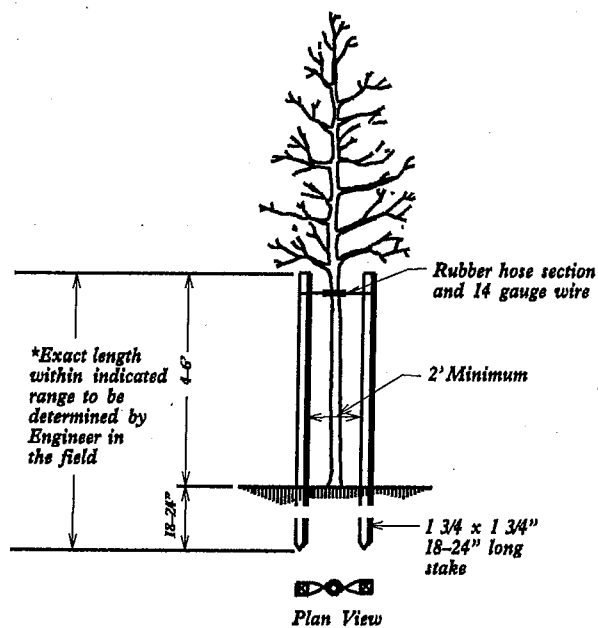
Tree or Shrub Planting Detail  
(Level Ground)



Tree or Shrub Planting Detail  
(Sloping Ground)

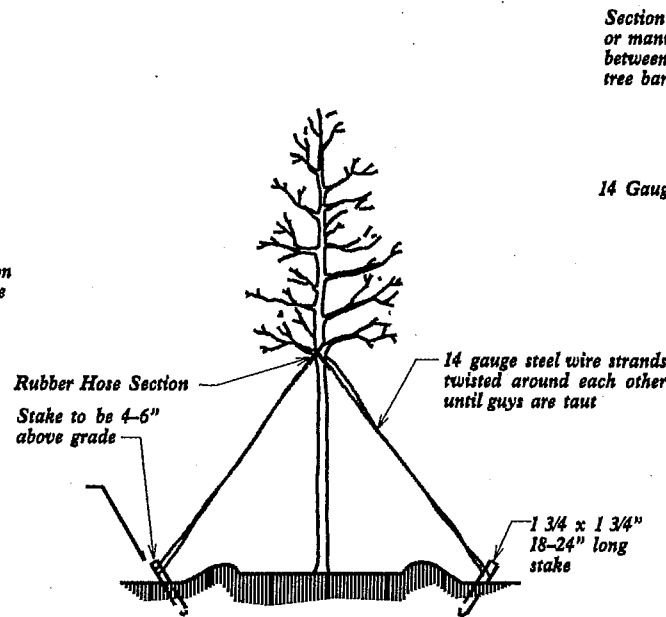


Bed Planting Detail



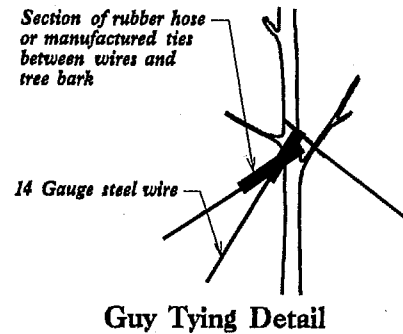
Staking Detail  
(for trees 6' to 10')

\* Utilize staking detail only if requested by the Engineer.

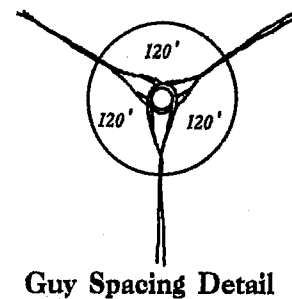


Tree Guying Detail  
(for trees 10' or larger)

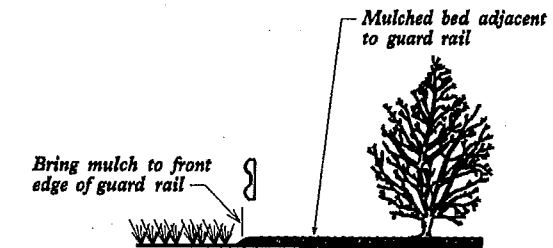
\* Utilize guying detail only if requested by the Engineer.



Guy Tying Detail



Guy Spacing Detail



Bed /Guard Rail Detail

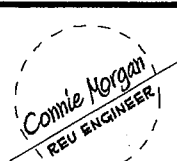
Notes:

Schedule for Plant Hole Size:  
X = 2 times the diameter of the container or the root ball diameter

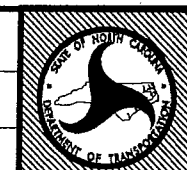
Cut and remove wire basket and remove burlap around top of root ball before backfilling.

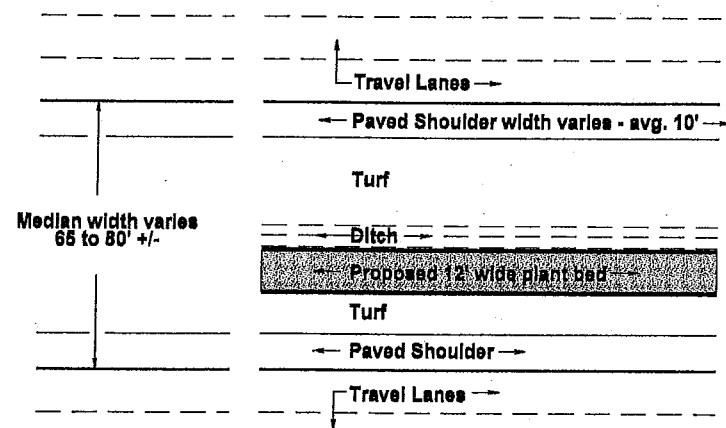
Fertilizer shall be applied at time of planting. Fertilizer shall be a slow release pellet or tablet. Formulation shall be approved by engineer in field. Rates shall be per manufacturer's recommendations and approved by engineer in field. Thoroughly mix with topsoil, backfill or scarified soil.

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



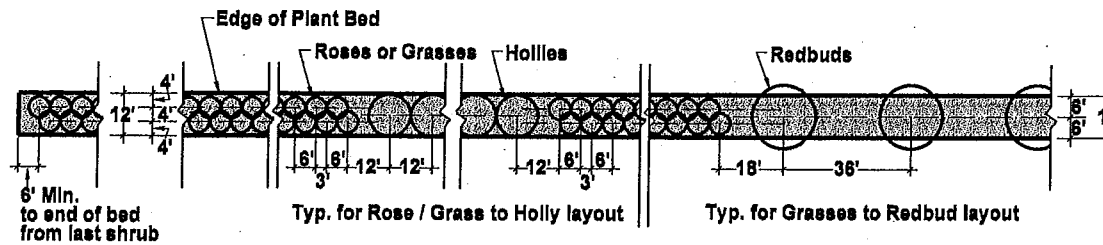
SHEET DESCRIPTION



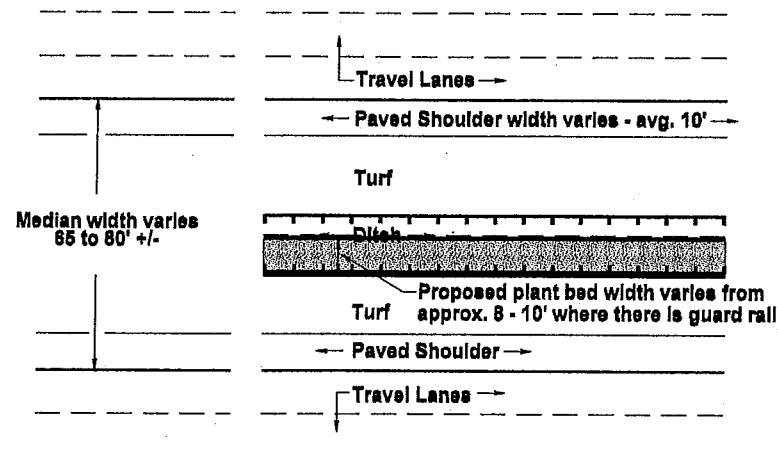


Note: Place proposed plant bed on same side of ditch as is currently existing.

Typical Median Layout

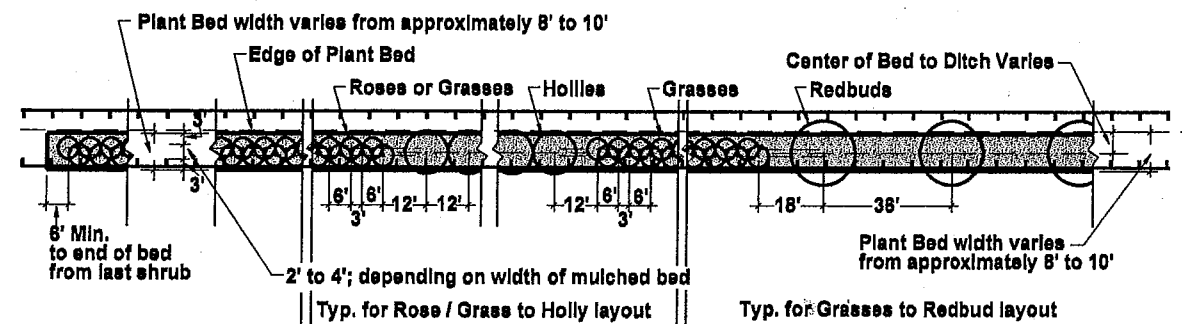


Typical Plant Bed Layout



Note: Place proposed plant bed on same side of ditch as is currently existing.

Typical Median Layout for Median Sections with Guard Rail

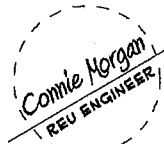


Typical Plant Bed Layout for Median Sections with Guard Rail



NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
 LANDSCAPE DESIGN & DEVELOPMENT  
 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557  
 PH: 919-733-2920 FAX: 919-733-9810  
[HTTP://WWW.NCDOT.ORG/DOH/OPERATIONS/DP\\_CHIEF\\_ENG/ROADSIDE/](http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/)

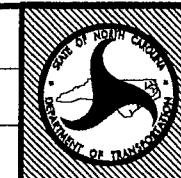
I-240 ASHEVILLE, NC  
 MEDIAN PLANTING RENOVATION  
 PROJECT #: 33920.3.5



SHEET DESCRIPTION

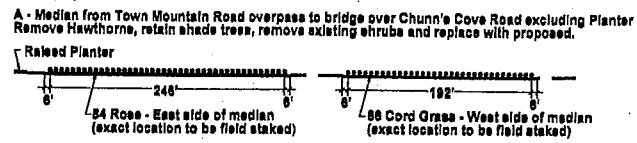
LANDSCAPE DEVELOPMENT  
 PLANT BED LAYOUT

PRELIMINARY DESIGN DATE:  
 MAY 31, 2012  
 FINAL DESIGN DATE:  
 AUGUST 21, 2012  
 DIVISION AND COUNTY:  
 DIVISION 13 - BUNCOMBE COUNTY



SHEET NO: 3  
 TOTAL SHEET NO: 4

| Totals for Section A |                         |
|----------------------|-------------------------|
| Quan.                | Common Name             |
| 1                    | Aurora Dogwood          |
| 1                    | Forest Pansy Redbud     |
| 1                    | Nellie R. Stevens Holly |
| 84                   | Knock Out Rose          |
| 88                   | Cloud Nine Switchgrass  |
| 88                   | Cord Grass              |

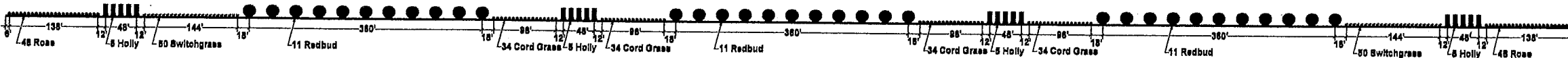


No Planting Proposed for Section B

B - Spread Median from bridge over Chunn's Cove Road to just east of Exit 6, Tunnel Road where median narrows. Maintain existing park-like feel to landscape - retain existing healthy shade trees. No planting recommended.

| Totals for Section C |                         |
|----------------------|-------------------------|
| Quan.                | Common Name             |
| 33                   | Forest Pansy Redbud     |
| 20                   | Nellie R. Stevens Holly |
| 18                   | Knock Out Rose          |
| 100                  | Cloud Nine Switchgrass  |
| 138                  | Cord Grass              |

C - Median from just east of Exit 6, Tunnel Road to bridge over US 70/Tunnel Road at Exit 7 - approx. 2436 LF



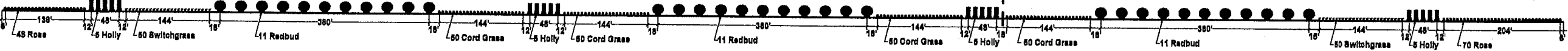
No Planting Proposed for Section D

D - Median between bridge over US 70 / Tunnel Road at Exit 7 to bridge over Swannanoa River Road - approx. 2351 LF



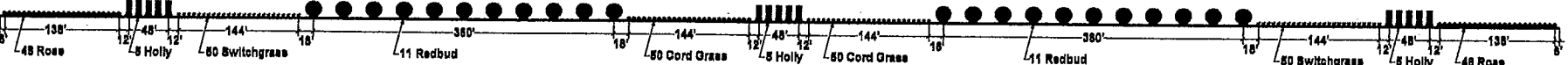
| Totals for Section E |                         |
|----------------------|-------------------------|
| Quan.                | Common Name             |
| 33                   | Forest Pansy Redbud     |
| 20                   | Nellie R. Stevens Holly |
| 148                  | Knock Out Rose          |
| 100                  | Cloud Nine Switchgrass  |
| 200                  | Cord Grass              |

E - Median between bridge over Swannanoa River Road to bridge over Bleachery Boulevard - approx. 2700 LF



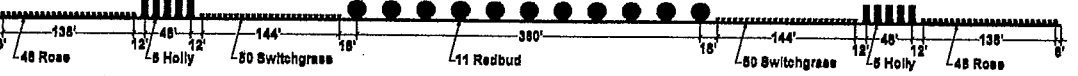
| Totals for Section F |                         |
|----------------------|-------------------------|
| Quan.                | Common Name             |
| 22                   | Forest Pansy Redbud     |
| 18                   | Nellie R. Stevens Holly |
| 88                   | Knock Out Rose          |
| 100                  | Cloud Nine Switchgrass  |
| 100                  | Cord Grass              |

F - Median between bridge over Bleachery Boulevard to overpass at Exit 8, Fairview Road - approx. 1872 LF - Guardrail enclosed



| Totals for Section G |                         |
|----------------------|-------------------------|
| Quan.                | Common Name             |
| 11                   | Forest Pansy Redbud     |
| 10                   | Nellie R. Stevens Holly |
| 98                   | Knock Out Rose          |
| 100                  | Cloud Nine Switchgrass  |
| 100                  | Cord Grass              |

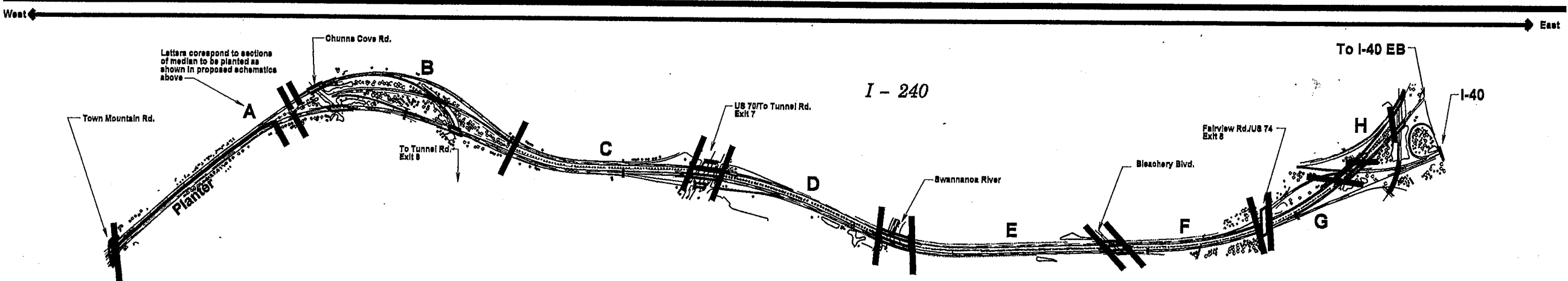
G - Median between overpass at Exit 8, US 74 & Fairview Road to bridge at US 74/I-240 WB ramp from I-40 EB, Exit 83B - approx. 1116 LF - Guardrail enclosed



| Totals for Section H |                     |
|----------------------|---------------------|
| Quan.                | Common Name         |
| 12                   | Aurora Dogwood      |
| 20                   | Forest Pansy Redbud |

H - Spread Median from bridge at US 74 / I-240 WB ramp from I-40 EB, Exit 83B to Railroad bridge - approx. 827 LF. Remove existing Hawthorn, retain existing shade trees. Plant understorey of 20 Forest Pansy Redbud and 12 Aurora Dogwood randomly as staked in the field. Mulch individually or in small groups.

- Notes:
- The Engineer may field adjust the length and quantity of each plant species within a plant grouping depending on site conditions.
  - Plant Knockout Rose, Cloud Nine Switchgrass and Cord Grass 8' O.C., in 2 staggered rows, 4' apart, in lengths and quantities as shown on schematic and as detailed in Typical Plant Bed Layouts, unless otherwise noted or directed.
  - Plant Forest Pansy Redbud 36' O.C., in a single row in lengths and quantities as shown on schematic and as detailed in Typical Plant Bed Layouts, unless otherwise noted or directed.
  - Plant Nellie R. Stevens Holly 12' O.C., in a single row in lengths and quantities as shown on schematic and as detailed in Typical Plant Bed Layouts, unless otherwise noted or directed.
  - All existing Hawthorn and shrubs within the median will be removed unless otherwise directed by the Engineer in the field.



NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
 LANDSCAPE DESIGN & DEVELOPMENT  
 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557  
 PH: 919-733-2920 FAX: 919-733-9810  
[HTTP://WWW.NCDOT.ORG/DOH/OPERATIONS/DP\\_CHIEF\\_ENG/ROADSIDE/](http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/)

I-240 ASHEVILLE, NC  
 MEDIAN PLANTING RENOVATION  
 PROJECT #: 33920.3.5

Connie Morgan  
 LEU ENGINEER

LANDSCAPE DEVELOPMENT  
 LANDSCAPE PLAN  
 SCHEMATIC

PRELIMINARY DESIGN DATE:  
 MAY 31, 2012  
 FINAL DESIGN DATE:  
 AUGUST 21, 2012  
 DIVISION AND COUNTY:  
 DIVISION 13 - BUNCOMBE COUNTY



SHEET NO: 4  
 TOTAL SHEET NO: 4