



**CITY OF HENDERSONVILLE**  
**ENVIRONMENTAL SUSTAINABILITY BOARD**  
Operations Center – Assembly Room | 305 Williams St. | Hendersonville, NC  
28792

**Tuesday, January 13, 2026 – 4:30 PM**



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## **AGENDA**

**1. CALL TO ORDER**

**2. APPROVAL OF AGENDA**

**3. APPROVAL OF MINUTES**

A. Approval of November 2025 meeting minutes

**4. BUSINESS**

A. Welcome new members! - *Emily Davidson, Chair*

B. Approval of Hendo Green Partnership structure - *Jill Carter, Member*

C. Hendo Earth Fest update - *Emily Davidson, Chair*

D. Sustainability Topic Presentation - *Emily Davidson, Chair*

Board members please sign up to present at the next meeting:

<https://docs.google.com/document/d/1g4Bc0uAoAAtaWX2t5tRNs4G6k2TDTCCxgKvXZJFrRc/edit?tab=t.0#heading=h.5t4j9lrjg6t8>

E. Status of FY26 board budget - *Caitlyn Gendusa, Staff Liaison*

Potential purchase with extra funds:

Edible garden signage & designation at Grove Street Park (part of current stormwater restoration project). Edible plants include: Persimmon, Paw Paw, Spicebush, Highbush blueberry, and Elderberries

Educational signage: ~\$4,500

Matching funds to Build Hendersonville awarded project - likely not an option since project won't be completed until next fiscal year

F. Vote on FY27 Budget - *Caitlyn Gendusa, Staff Liaison*

G. Sustainability Hero Award planning

Confirm City can start promoting award program & designate ESB member to be point of contact

H. SDS maintenance schedule - *Virginia Tegel, Member*

Board members signed up for once/month (ideally weekly) checkin on maintenance. Members, please record on sheet below when you checkin on station and follow protocol listed:

<https://docs.google.com/document/d/1hUcxz-eGyUD387ihl3VKwvSqOpyuzPL6lIYw6tLlJ6E/edit?tab=t.0#heading=h.bi11dhoys7ls>

5. **ADJOURNMENT**

*The City of Hendersonville is committed to providing accessible facilities, programs and services for all people in compliance with the Americans with Disabilities Act (ADA). Should you need assistance or an accommodation for this meeting please contact the City Clerk no later than 24 hours prior to the meeting at 697-3005.*



**CITY OF HENDERSONVILLE**  
**ENVIRONMENTAL SUSTAINABILITY BOARD**  
 Osceola Lake Inn | 159 Osceola Road Hendersonville, NC 28739  
 Monday, November 10, 2025 – 5:30 PM



## MINUTES

### CALL TO ORDER

Meeting called to order at 6:03 p.m.

Present: Alicia Stump, Emily Davidson, Jill Carter, Fiona McColley, and Virginia Tegel

Absent: Omar Zafra, Kyla Christensen

### APPROVAL OF AGENDA

Emily motioned to approve first followed by Alicia.

### NEW BUSINESS

Annual Retreat

Jill motioned first followed by Emily to move December ESB meeting to December 2<sup>nd</sup> at 4:30pm

Hendo Earth Fest subcommittee meeting moved to December 22<sup>nd</sup> and will be a virtual meeting

New member recruitment

Members took flyers to pass out and post at businesses

Virginia is contacting Ecusta Market on tabling at their business for new member recruitment

2026 Priorities & Projects – see attachment to minutes

### ADJOURNMENT

*The City of Hendersonville is committed to providing accessible facilities, programs and services for all people in compliance with the Americans with Disabilities Act (ADA). Should you need assistance or an accommodation for this meeting please contact the City Clerk no later than 24 hours prior to the meeting at 697-3005.*



# 2026 Priorities

## GOAL

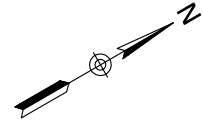
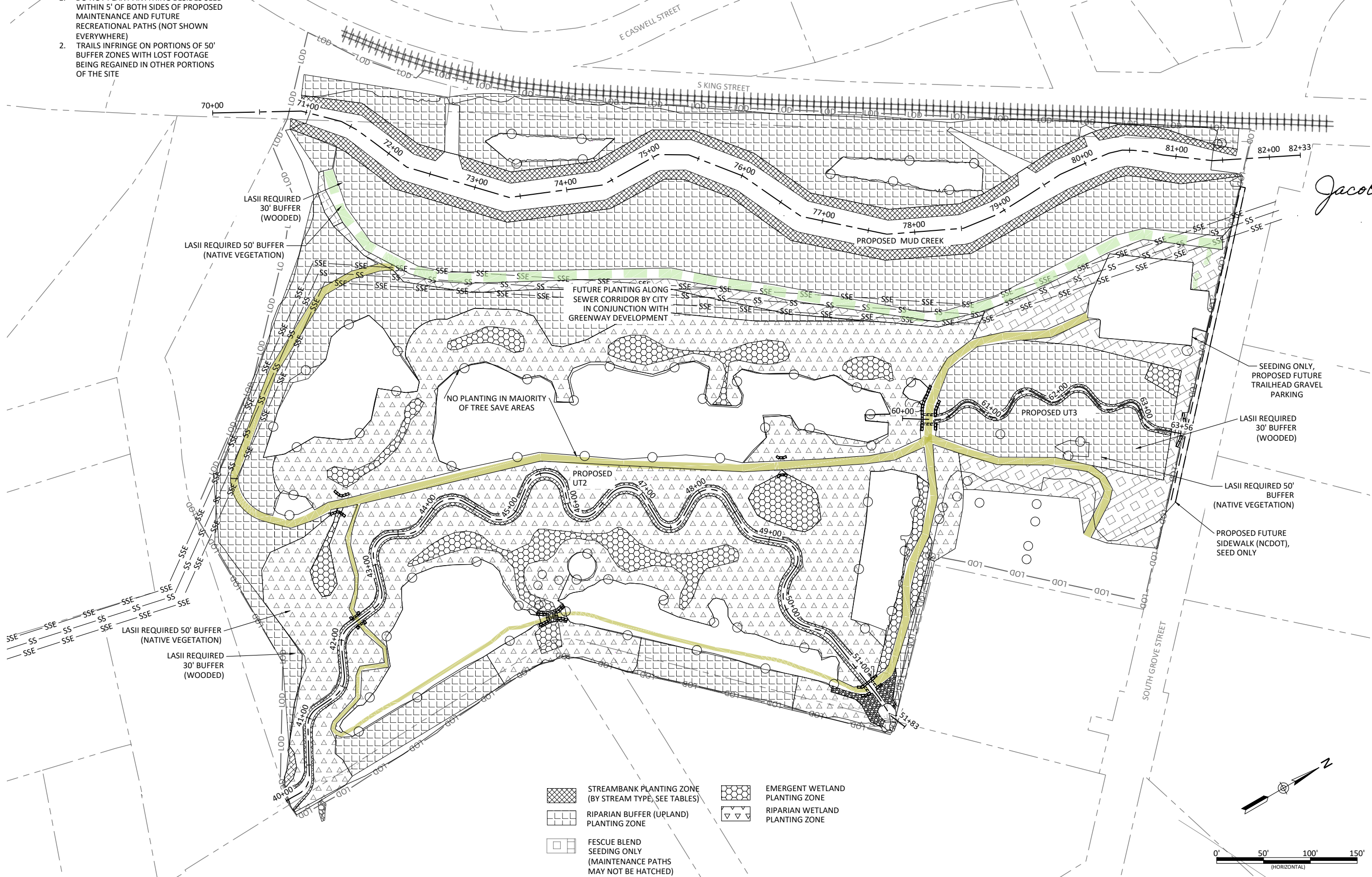
- **Outreach Events**
  - Every other week Farmers Market presence with volunteer support
    - Ideally 1 ESB member & 2 volunteers
  - Host twice/year giveaway events
  - Lead GreenDrinks talk
- **Educating Public on Sustainability**
  - ESB inclusion in City newsletter every month – Emily volunteered to spearhead
- **Continuing Hendo Green Partnership**
  - Jill volunteered to spearhead
- **Continuing Making City Council Recommendations**
- **Further Investigate program where community members submit projects they would like to see implemented which ESB would select and fund**

## NEXT STEPS

- Create shared calendar of dates
- Refine re-occurring volunteers & assign ESB member to schedule
- Schedule event and cost need
- Caitlyn will coordinate talk
- Emily updating board at each monthly meeting
- Members & Caitlyn emailing Jill latest information
- Members should be thinking of any requests related to the upcoming Transportation Bond
- Iron out parameters and program cost

NOTES:

1. DO NOT PLANT ANYTHING BESIDES SEED WITHIN 5' OF BOTH SIDES OF PROPOSED MAINTENANCE AND FUTURE RECREATIONAL PATHS (NOT SHOWN EVERYWHERE)
2. TRAILS INFRINGE ON PORTIONS OF 50' BUFFER ZONES WITH LOST FOOTAGE BEING REGAINED IN OTHER PORTIONS OF THE SITE



Lower Mud Creek Floodplain Restoration Project  
Henderson County, North Carolina

Brevard Church Site  
Planting Plan

| Revisions: |
|------------|
|            |
|            |
|            |
|            |
|            |

|                   |             |
|-------------------|-------------|
| Date:             | 9/2/2025    |
| Job Number:       | 21073       |
| Project Engineer: | JPM         |
| Drawn By:         | JMF, MB, KR |
| Checked By:       | JPM         |

7.0.2



Jacob P. McLean

| Streambank Planting Zone 1- Mud Creek                                                                   |                       |               |                    |           |                          |            |                         |                 |
|---------------------------------------------------------------------------------------------------------|-----------------------|---------------|--------------------|-----------|--------------------------|------------|-------------------------|-----------------|
| Live Stakes                                                                                             |                       |               |                    |           |                          |            |                         |                 |
| Species                                                                                                 | Common Name           | Plant Spacing | Size               | Stratum   | Wetland Indicator Status | % of Stems | Brevard Church Quantity | Wilson Quantity |
| <i>Salix nigra</i>                                                                                      | Black Willow          | 3' x 2 rows   | 0.5"-1.5" cal.     | Canopy    | OBL                      | 50%        | 731                     | 314             |
| <i>Cornus amomum</i>                                                                                    | Silky Dogwood         | 3' x 2 rows   | 0.5"-1.5" cal.     | Subcanopy | FACW                     | 9%         | 132                     | 56              |
| <i>Salix sericea</i>                                                                                    | Silky Willow          | 3' x 2 rows   | 0.5"-1.5" cal.     | Subcanopy | OBL                      | 25%        | 366                     | 157             |
| <i>Physocarpus opulifolius</i>                                                                          | Ninebark              | 3' x 2 rows   | 0.5"-1.5" cal.     | Shrub     | FACW                     | 8%         | 117                     | 50              |
| <i>Alnus serrulata</i>                                                                                  | Buttonbush            | 3' x 2 rows   | 0.5"-1.5" cal.     | Shrub     | OBL                      | 8%         | 117                     | 50              |
| sum:                                                                                                    |                       |               |                    |           |                          | 100%       | 1462                    | 627             |
| Woody Containers                                                                                        |                       |               |                    |           |                          |            |                         |                 |
| <i>Xanthorhiza simplicissima</i>                                                                        | Yellowroot            | 5 ft          | Tubling - 1 Gallon | Shrub     | FACW                     | 35%        | 154                     | 66              |
| <i>Itea virginica</i>                                                                                   | Virginia Willow       | 5 ft          | Tubling - 1 Gallon | Shrub     | OBL                      | 25%        | 110                     | 47              |
| <i>Amorpha fruticosa</i>                                                                                | False Indigo          | 5 ft          | Tubling - 1 Gallon | Shrub     | FACW                     | 10%        | 44                      | 19              |
| <i>Sambucus canadensis</i>                                                                              | Elderberry            | 5 ft          | Tubling - 1 Gallon | Subcanopy | FAC                      | 15%        | 66                      | 28              |
| <i>Viburnum dentatum</i>                                                                                | Arrowwood<br>Viburnum | 5 ft          | Tubling - 1 Gallon | Shrub     | FAC                      | 15%        | 66                      | 28              |
| Preferred alternates- <i>Leucothoe fontanesiana</i> , <i>Viburnum nudum</i> , <i>Aronia arbutifolia</i> |                       |               |                    |           |                          |            |                         |                 |
| sum:                                                                                                    |                       |               |                    |           |                          | 100%       | 439                     | 188             |
| Herbaceous Plugs                                                                                        |                       |               |                    |           |                          |            |                         |                 |
| <i>Juncus effusus</i>                                                                                   | Soft Rush             | 4 ft          | 1.0"-2.0" plug     | Herb      | FACW                     | 25%        | 137                     | 59              |
| <i>Carex lurida</i>                                                                                     | Lurid Sedge           | 4 ft          | 1.0"-2.0" plug     | Herb      | OBL                      | 15%        | 82                      | 35              |
| <i>Lobelia cardinalis</i>                                                                               | Cardinal Flower       | 4 ft          | 1.0"-2.0" plug     | Herb      | FACW                     | 5%         | 27                      | 12              |
| <i>Scirpus cyperinus</i>                                                                                | Woolgrass             | 4 ft          | 1.0"-2.0" plug     | Herb      | FACW                     | 15%        | 82                      | 35              |
| <i>Conoclinium coelestinum</i>                                                                          | Blue Mistflower       | 4 ft          | 1.0"-2.0" plug     | Herb      | FAC                      | 5%         | 27                      | 12              |
| <i>Carex crinita</i>                                                                                    | Fringed Sedge         | 4 ft          | 1.0"-2.0" plug     | Herb      | OBL                      | 15%        | 82                      | 35              |
| <i>Hibiscus moscheutos</i>                                                                              | Swamp Rosemallow      | 4 ft          | 1.0"-2.0" plug     | Herb      | OBL                      | 5%         | 27                      | 12              |
| <i>Carex vulpinoidea</i>                                                                                | Fox Sedge             | 4 ft          | 1.0"-2.0" plug     | Herb      | OBL                      | 15%        | 82                      | 35              |
| sum:                                                                                                    |                       |               |                    |           |                          | 100%       | 548                     | 235             |

| Streambank Planting Zone 2- Tributaries |                 |                |                |           |                          |            |                         |                 |
|-----------------------------------------|-----------------|----------------|----------------|-----------|--------------------------|------------|-------------------------|-----------------|
| Live Stakes                             |                 |                |                |           |                          |            |                         |                 |
| Species                                 | Common Name     | Plant Spacing  | Size           | Stratum   | Wetland Indicator Status | % of Stems | Brevard Church Quantity | Wilson Quantity |
| <i>Cornus amomum</i>                    | Silky Dogwood   | 3-6 ft x 1 row | 0.5"-1.5" cal. | Subcanopy | FACW                     | 10%        | 73                      | 31              |
| <i>Salix sericea</i>                    | Silky Willow    | 3-6 ft x 1 row | 0.5"-1.5" cal. | Subcanopy | OBL                      | 50%        | 366                     | 156             |
| <i>Cephalanthus occidentalis</i>        | Buttonbush      | 3-6 ft x 1 row | 0.5"-1.5" cal. | Shrub     | OBL                      | 10%        | 73                      | 31              |
| <i>Physocarpus opulifolius</i>          | Ninebark        | 3-6 ft x 1 row | 0.5"-1.5" cal. | Shrub     | FACW                     | 10%        | 73                      | 31              |
| <i>Salix nigra</i>                      | Black Willow    | 3-6 ft x 1 row | 0.5"-1.5" cal. | Canopy    | OBL                      | 20%        | 146                     | 62              |
| sum:                                    |                 |                |                |           |                          | 100%       | 732                     | 312             |
| Herbaceous Plugs                        |                 |                |                |           |                          |            |                         |                 |
| <i>Juncus effusus</i>                   | Soft Rush       | 4 ft           | 1.0"-2.0" plug | Herb      | FACW                     | 20%        | 146                     | 62              |
| <i>Carex lurida</i>                     | Lurid Sedge     | 4 ft           | 1.0"-2.0" plug | Herb      | OBL                      | 20%        | 146                     | 62              |
| <i>Lobelia cardinalis</i>               | Cardinal Flower | 4 ft           | 1.0"-2.0" plug | Herb      | FACW                     | 15%        | 110                     | 47              |
| <i>Conoclinium coelestinum</i>          | Blue Mistflower | 4 ft           | 1.0"-2.0" plug | Herb      | FAC                      | 15%        | 110                     | 47              |
| <i>Carex vulpinoidea</i>                | Fox Sedge       | 4 ft           | 1.0"-2.0" plug | Herb      | OBL                      | 15%        | 110                     | 47              |
| <i>Carex crinita</i>                    | Fringed Sedge   | 4 ft           | 1.0"-2.0" plug | Herb      | OBL                      | 15%        | 110                     | 47              |
| sum:                                    |                 |                |                |           |                          | 100%       | 732                     | 312             |

| Riparian Buffer (Upland) Planting Zone                                                                                        |                           |            |              |           |                          |            |                         |                 |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------|--------------|-----------|--------------------------|------------|-------------------------|-----------------|
| Upland and Terrace Planting                                                                                                   |                           |            |              |           |                          |            |                         |                 |
| Species                                                                                                                       | Common Name               | Spacing    | Size         | Stratum   | Wetland Indicator Status | % of Stems | Brevard Church Quantity | Wilson Quantity |
| Bare Root                                                                                                                     |                           |            |              |           |                          |            |                         |                 |
| <i>Platanus occidentalis</i>                                                                                                  | American Sycamore         | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FACW                     | 10%        | 123                     | 78              |
| <i>Betula nigra</i>                                                                                                           | River Birch               | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FACW                     | 7%         | 86                      | 55              |
| <i>Acer negundo</i>                                                                                                           | Boxelder                  | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FAC                      | 10%        | 123                     | 78              |
| <i>Liriodendron tulipifera</i>                                                                                                | Tulip Tree                | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FACU                     | 10%        | 123                     | 78              |
| <i>Acer rubrum</i>                                                                                                            | Red Maple                 | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FAC                      | 10%        | 123                     | 78              |
| <i>Carpinus caroliniana</i>                                                                                                   | Ironwood                  | 9 x 12 ft  | 0.25"-1.0"   | Subcanopy | FAC                      | 5%         | 62                      | 39              |
| <i>Quercus rubra</i>                                                                                                          | Northern Red Oak          | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FACU                     | 10%        | 123                     | 78              |
| <i>Quercus alba</i>                                                                                                           | White Oak                 | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FACU                     | 10%        | 123                     | 78              |
| <i>Diospyros virgininiana</i>                                                                                                 | Persimmon                 | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FACU                     | 10%        | 123                     | 78              |
| <i>Tilia americana</i>                                                                                                        | American Basswood         | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FACU                     | 8%         | 99                      | 63              |
| <i>Aesculus flava</i>                                                                                                         | Yellow Buckeye            | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FACU                     | 10%        | 123                     | 78              |
| sum:                                                                                                                          |                           |            |              |           |                          | 100%       | 1231                    | 781             |
| Preferred alternates: <i>Betula lenta</i> , <i>Hamamelis virginiana</i>                                                       |                           |            |              |           |                          |            |                         |                 |
| Container                                                                                                                     |                           |            |              |           |                          |            |                         |                 |
| <i>Betula lenta</i>                                                                                                           | Sweet Birch               | 12 x 18 ft | 1 - 3 gallon | Canopy    | OBL                      | 10%        | 62                      | 39              |
| <i>Carpinus caroliniana</i>                                                                                                   | Ironwood                  | 12 x 18 ft | 1 - 3 gallon | Subcanopy | FAC                      | 5%         | 31                      | 20              |
| <i>Halesia tetraptera</i>                                                                                                     | Mountain Silverbell       | 12 x 18 ft | 1 - 3 gallon | Subcanopy | FAC                      | 10%        | 62                      | 39              |
| <i>Liriodendron tulipifera</i>                                                                                                | Tulip Tree                | 12 x 18 ft | 1 - 3 gallon | Canopy    | FACU                     | 5%         | 31                      | 20              |
| <i>Rhododendron arborescens</i>                                                                                               | Sweet Azalea              | 12 x 18 ft | 1 - 3 gallon | Shrub     | FAC                      | 6%         | 37                      | 24              |
| <i>Hamamelis viginiana</i>                                                                                                    | Witch Hazel               | 12 x 18 ft | 1 - 3 gallon | Subcanopy | FACU                     | 10%        | 62                      | 39              |
| <i>Benthamidia florida</i>                                                                                                    | Flowering Dogwood         | 12 x 18 ft | 1 - 3 gallon | Subcanopy | FACU                     | 5%         | 31                      | 20              |
| <i>Ilex opaca</i>                                                                                                             | American Holly            | 12 x 18 ft | 1 - 3 gallon | Subcanopy | FACU                     | 5%         | 31                      | 20              |
| <i>Clethra acuminata</i>                                                                                                      | Mountain Sweet Pepperbush | 12 x 18 ft | 1 - 3 gallon | Shrub     | NI                       | 5%         | 31                      | 20              |
| <i>Asimina triloba</i>                                                                                                        | Pawpaw                    | 12 x 18 ft | 1 - 3 gallon | Subcanopy | FAC                      | 8%         | 50                      | 32              |
| <i>Euonymus americanus</i>                                                                                                    | Strawberrybush            | 12 x 18 ft | 1 - 3 gallon | Shrub     | FAC                      | 6%         | 37                      | 24              |
| <i>Physocarpus opulifolius</i>                                                                                                | Ninebark                  | 12 x 18 ft | 1 - 3 gallon | Shrub     | FACW                     | 5%         | 31                      | 20              |
| <i>Fagus grandifolia</i>                                                                                                      | American Beech            | 12 x 18 ft | 1 - 3 gallon | Canopy    | FACU                     | 10%        | 62                      | 39              |
| <i>Calycanthus floridus</i>                                                                                                   | Sweetshrub                | 12 x 18 ft | 1 - 3 gallon | Shrub     | FACU                     | 5%         | 31                      | 20              |
| <i>Lindera benzoin</i>                                                                                                        | Spicebush                 | 12 x 18 ft | 1 - 3 gallon | Shrub     | FAC                      | 5%         | 31                      | 20              |
| sum:                                                                                                                          |                           |            |              |           |                          | 100%       | 620                     | 396             |
| Preferred Alternates: <i>Amelanchier arborea</i> , <i>Betula nigra</i> , <i>Tilia americana</i> , <i>Vaccinium corymbosum</i> |                           |            |              |           |                          |            |                         |                 |

Jacob P. McLean



Lower Mud Creek Floodplain Restoration Project

Henderson County, North Carolina

Planting Tables 1  
Planting Plan

|            |  |
|------------|--|
| Revisions: |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |

|                   |             |
|-------------------|-------------|
| Date:             | 9/2/2025    |
| Job Number:       | 20373       |
| Project Engineer: | JPM         |
| Drawn By:         | JMF, MB, KB |
| Checked By:       | JPM         |

7.1

| Riparian Wetland Planting Zone   |                        |            |              |           |                          |            |                         |                 |
|----------------------------------|------------------------|------------|--------------|-----------|--------------------------|------------|-------------------------|-----------------|
| Species                          | Common Name            | Spacing    | Size         | Stratum   | Wetland Indicator Status | % of Stems | Brevard Church Quantity | Wilson Quantity |
| Bare Root (66.67% OF TOTAL ZONE) |                        |            |              |           |                          |            |                         |                 |
| <i>Platanus occidentalis</i>     | American Sycamore      | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FACW                     | 12%        | 135                     | 62              |
| <i>Betula nigra</i>              | River Birch            | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FACW                     | 11%        | 124                     | 57              |
| <i>Acer negundo</i>              | Boxelder               | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FAC                      | 10%        | 113                     | 52              |
| <i>Alnus serrulata</i>           | Tag Alder              | 9 x 12 ft  | 0.25"-1.0"   | Subcanopy | OBL                      | 10%        | 113                     | 52              |
| <i>Acer rubrum</i>               | Red Maple              | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | FAC                      | 10%        | 113                     | 52              |
| <i>Salix nigra</i>               | Black Willow           | 9 x 12 ft  | 0.25"-1.0"   | Canopy    | OBL                      | 12%        | 135                     | 62              |
| <i>Carpinus caroliniana</i>      | Ironwood               | 9 x 12 ft  | 0.25"-1.0"   | Subcanopy | FAC                      | 6%         | 68                      | 31              |
| <i>Salix sericea</i>             | Silky Willow           | 9 x 12 ft  | 0.25"-1.0"   | Subcanopy | OBL                      | 11%        | 124                     | 57              |
| <i>Swida amomum</i>              | Silky Dogwood          | 9 x 12 ft  | 0.25"-1.0"   | Subcanopy | FACW                     | 10%        | 113                     | 52              |
| <i>Cephalanthus occidentalis</i> | Buttonbush             | 9 x 12 ft  | 0.25"-1.0"   | Shrub     | OBL                      | 8%         | 90                      | 41              |
| sum:                             |                        |            |              |           |                          | 100%       | 1128                    | 518             |
| Container (33.33% OF TOTAL ZONE) |                        |            |              |           |                          |            |                         |                 |
| <i>Alnus serrulata</i>           | Tag Alder              | 12 x 18 ft | 1 - 3 gallon | Subcanopy | OBL                      | 6%         | 17                      | 8               |
| <i>Carpinus caroliniana</i>      | Ironwood               | 12 x 18 ft | 1 - 3 gallon | Subcanopy | FAC                      | 5%         | 15                      | 7               |
| <i>Cephalanthus occidentalis</i> | Buttonbush             | 12 x 18 ft | 1 - 3 gallon | Shrub     | OBL                      | 5%         | 15                      | 7               |
| <i>Rhododendron viscosum</i>     | Swamp Azalea           | 12 x 18 ft | 1 - 3 gallon | Shrub     | FACW                     | 10%        | 29                      | 13              |
| <i>Aronia arbutifolia</i>        | Red Chokeberry         | 12 x 18 ft | 1 - 3 gallon | Shrub     | FACW                     | 8%         | 23                      | 11              |
| <i>Vaccinium corymbosum</i>      | Highbush Blueberry     | 12 x 18 ft | 1 - 3 gallon | Shrub     | FACW                     | 8%         | 23                      | 11              |
| <i>Viburnum nudum</i>            | Possumhaw Viburnum     | 12 x 18 ft | 1 - 3 gallon | Shrub     | OBL                      | 10%        | 29                      | 13              |
| <i>Itea virginica</i>            | Virginia Willow        | 12 x 18 ft | 1 - 3 gallon | Shrub     | OBL                      | 8%         | 23                      | 11              |
| <i>Sambucus canadensis</i>       | Elderberry             | 12 x 18 ft | 1 - 3 gallon | Shrub     | FAC                      | 5%         | 15                      | 7               |
| <i>Spiraea alba</i>              | Narrowleaf Meadowsweet | 12 x 18 ft | 1 - 3 gallon | Shrub     | FACW                     | 8%         | 23                      | 11              |
| <i>Physocarpus opulifolius</i>   | Ninebark               | 12 x 18 ft | 1 - 3 gallon | Shrub     | FACW                     | 10%        | 29                      | 13              |
| <i>Ilex verticillata</i>         | Winterberry            | 12 x 18 ft | 1 - 3 gallon | Shrub     | FACW                     | 12%        | 34                      | 16              |
| <i>Lindera benzoin</i>           | Spicebush              | 12 x 18 ft | 1 - 3 gallon | Shrub     | FAC                      | 5%         | 15                      | 7               |
| sum:                             |                        |            |              |           |                          | 100%       | 290                     | 135             |

| Emergent Wetland Planting Zone                                                                                                                                                |                        |         |                |                        |                          |               |                         |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|----------------|------------------------|--------------------------|---------------|-------------------------|-----------------|
| Species                                                                                                                                                                       | Common Name            | Spacing | Size           | Stratum                | Wetland Indicator Status | % of Stems    | Brevard Church Quantity | Wilson Quantity |
| Live Stake                                                                                                                                                                    |                        |         |                |                        |                          |               |                         |                 |
| <i>Salix nigra</i>                                                                                                                                                            | Black Willow           | 3 ft    | 0.25"-1.0"     | Canopy                 | OBL                      | 8%            | 40                      | 25              |
| <i>Salix sericea</i>                                                                                                                                                          | Silky Willow           | 3 ft    | 0.25"-1.0"     | Subcanopy              | OBL                      | 10%           | 50                      | 31              |
| <i>Swida amomum</i>                                                                                                                                                           | Silky Dogwood          | 3 ft    | 0.25"-1.0"     | Subcanopy              | FACW                     | 8%            | 40                      | 25              |
| <i>Cephalanthus occidentalis</i>                                                                                                                                              | Buttonbush             | 3 ft    | 0.25"-1.0"     | Shrub                  | OBL                      | 8%            | 40                      | 25              |
| sum:                                                                                                                                                                          |                        |         |                |                        |                          |               | 170                     | 106             |
| Container                                                                                                                                                                     |                        |         |                |                        |                          |               |                         |                 |
| <i>Alnus serrulata</i>                                                                                                                                                        | Tag Alder              | 3 ft    | 1 - 3 gallon   | Subcanopy              | OBL                      | 10%           | 50                      | 31              |
| <i>Cephalanthus occidentalis</i>                                                                                                                                              | Buttonbush             | 3 ft    | 1 - 3 gallon   | Shrub                  | OBL                      | 8%            | 40                      | 25              |
| <i>Rhododendron viscosum</i>                                                                                                                                                  | Swamp Azalea           | 3 ft    | 1 - 3 gallon   | Shrub                  | FACW                     | 8%            | 40                      | 25              |
| <i>Aronia arbutifolia</i>                                                                                                                                                     | Red Chokeberry         | 3 ft    | 1 - 3 gallon   | Shrub                  | FACW                     | 8%            | 40                      | 25              |
| <i>Viburnum nudum</i>                                                                                                                                                         | Possumhaw Viburnum     | 3 ft    | 1 - 3 gallon   | Shrub                  | OBL                      | 8%            | 40                      | 25              |
| <i>Itea virginica</i>                                                                                                                                                         | Virginia Willow        | 3 ft    | 1 - 3 gallon   | Shrub                  | OBL                      | 8%            | 40                      | 25              |
| <i>Spiraea alba</i>                                                                                                                                                           | Narrowleaf Meadowsweet | 3 ft    | 1 - 3 gallon   | Shrub                  | FACW                     | 8%            | 40                      | 25              |
| <i>Ilex verticillata</i>                                                                                                                                                      | Winterberry            | 3 ft    | 1 - 3 gallon   | Shrub                  | FACW                     | 8%            | 40                      | 25              |
|                                                                                                                                                                               |                        |         |                |                        |                          | 100%          |                         |                 |
| sum:                                                                                                                                                                          |                        |         |                |                        |                          |               | 330                     | 206             |
| Herbaceous Plugs                                                                                                                                                              |                        |         |                |                        |                          |               |                         |                 |
| Species                                                                                                                                                                       | Common Name            | Spacing | Size           | Placement              | Wetland Indicator Status | Planting Rate | Brevard Church Quantity | Wilson Quantity |
| <i>Peltandra virginica</i>                                                                                                                                                    | Arrow Arum             | 1 ft    | 1.0"-2.0" plug | Shallow Water          | OBL                      | 10%           | 398                     | 243             |
| <i>Pontederia cordata</i>                                                                                                                                                     | Pickereel Weed         | 1 ft    | 1.0"-2.0" plug | Shallow Water          | OBL                      | 10%           | 398                     | 243             |
| <i>Sagittaria latifolia</i>                                                                                                                                                   | Duck Potato            | 1 ft    | 1.0"-2.0" plug | Shallow Water          | OBL                      | 10%           | 398                     | 243             |
| <i>Scirpus cyperinus</i>                                                                                                                                                      | Woolgrass              | 1 ft    | 1.0"-2.0" plug | Shallow Water          | FACW                     | 10%           | 398                     | 243             |
| <i>Schoenoplectus tabernaemontani</i>                                                                                                                                         | Softstem Bulrush       | 1 ft    | 1.0"-2.0" plug | Shallow Water          | OBL                      | 10%           | 398                     | 243             |
| <i>Juncus effusus</i>                                                                                                                                                         | Soft Rush              | 1 ft    | 1.0"-2.0" plug | Intermittently Flooded | FACW                     | 9%            | 358                     | 219             |
| <i>Hibiscus moscheutos</i>                                                                                                                                                    | Swamp Rosemallow       | 1 ft    | 1.0"-2.0" plug | Intermittently Flooded | OBL                      | 5%            | 199                     | 122             |
| <i>Carex crinita</i>                                                                                                                                                          | Fringed Sedge          | 1 ft    | 1.0"-2.0" plug | Intermittently Flooded | OBL                      | 9%            | 358                     | 219             |
| <i>Carex lurida</i>                                                                                                                                                           | Lurid Sedge            | 1 ft    | 1.0"-2.0" plug | Intermittently Flooded | OBL                      | 10%           | 398                     | 243             |
| <i>Carex scoparia</i>                                                                                                                                                         | Broom Sedge            | 1 ft    | 1.0"-2.0" plug | Intermittently Flooded | FACW                     | 9%            | 358                     | 219             |
| <i>Carex stricta</i>                                                                                                                                                          | Upright Sedge          | 1 ft    | 1.0"-2.0" plug | Intermittently Flooded | OBL                      | 8%            | 318                     | 195             |
| Clusters of 10 plugs of the same species planted on 1' centers. Edges of clusters will be 5' apart.                                                                           |                        |         |                |                        |                          | 100%          | 3972                    | 2428            |
| sum:                                                                                                                                                                          |                        |         |                |                        |                          |               | 7951                    | 4860            |
| Intermittently flooded- clusters of 5 plugs of the same species planted on 1' centers. Planting shall occur 6" above and below pool bank. Edges of clusters shall be 5' apart |                        |         |                |                        |                          |               |                         |                 |
| Shallow Water- clusters of 10 plugs of the same species planted on 1' centers. Edges of clusters shall be 10' apart. Planting shall occur +/- 3" below top of pool bank.      |                        |         |                |                        |                          |               |                         |                 |

Jacob P. McLean

Lower Mud Creek Floodplain Restoration Project

Henderson County, North Carolina

Planting Tables 2  
Planting Plan

|            |  |
|------------|--|
| Revisions: |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |

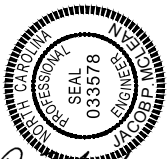
|                   |             |
|-------------------|-------------|
| Date:             | 9/2/2025    |
| Job Number:       | 20373       |
| Project Engineer: | JPM         |
| Drawn By:         | JMF, MB, KB |
| Checked By:       | JPM         |

7.2

| Tree Mound Planting Zone     |                    |          |              |           |                          |            |                         |                 |
|------------------------------|--------------------|----------|--------------|-----------|--------------------------|------------|-------------------------|-----------------|
| Species                      | Common Name        | Spacing  | Size         | Stratum   | Wetland Indicator Status | % of Stems | Brevard Church Quantity | Wilson Quantity |
| Container                    |                    |          |              |           |                          |            |                         |                 |
| <i>Platanus occidentalis</i> | Sycamore           | 3 - 5 ft | 1 - 3 gallon | Canopy    | FACW                     | 10%        | 11                      | 9               |
| <i>Acer rubrum</i>           | Red Maple          | 3 - 5 ft | 1 - 3 gallon | Canopy    | FAC                      | 10%        | 11                      | 9               |
| <i>Salix sericea</i>         | Silky Willow       | 3 - 5 ft | 1 - 3 gallon | Subcanopy | OBL                      | 10%        | 11                      | 9               |
| <i>Alnus serrulata</i>       | Tag Alder          | 3 - 5 ft | 1 - 3 gallon | Subcanopy | OBL                      | 10%        | 11                      | 9               |
| <i>Viburnum nudum</i>        | Possumhaw Viburnum | 3 - 5 ft | 1 - 3 gallon | Shrub     | OBL                      | 20%        | 33                      | 26              |
| <i>Ilex verticillata</i>     | Winterberry        | 3 - 5 ft | 1 - 3 gallon | Shrub     | FACW                     | 20%        | 33                      | 26              |
| <i>Rhododendron viscosum</i> | Swamp Azalea       | 3 - 5 ft | 1 - 3 gallon | Shrub     | FACW                     | 20%        | 33                      | 26              |
| sum:                         |                    |          |              |           |                          | 100%       | 143                     | 114             |

| Forested Wetland Planting Zone                                                                                                                                                                                                                                                                                           |                    |               |              |           |                          |            |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|--------------|-----------|--------------------------|------------|-------------------|
| Species                                                                                                                                                                                                                                                                                                                  | Common Name        | Plant Spacing | Size         | Stratum   | Wetland Indicator Status | % of Stems | Wilson - Quantity |
| Container                                                                                                                                                                                                                                                                                                                |                    |               |              |           |                          |            |                   |
| <i>Platanus occidentalis</i>                                                                                                                                                                                                                                                                                             | American Sycamore  | See detail    | 1 - 3 gallon | Canopy    | FACW                     | 10%        | 42                |
| <i>Betula nigra</i>                                                                                                                                                                                                                                                                                                      | River Birch        | See detail    | 1 - 3 gallon | Canopy    | FACW                     | 10%        | 42                |
| <i>Acer rubrum</i>                                                                                                                                                                                                                                                                                                       | Red Maple          | See detail    | 1 - 3 gallon | Canopy    | FAC                      | 10%        | 42                |
| <i>Alnus serrulata</i>                                                                                                                                                                                                                                                                                                   | Tag Alder          | See detail    | 1 - 3 gallon | Subcanopy | OBL                      | 10%        | 42                |
| <i>Swida amomum</i>                                                                                                                                                                                                                                                                                                      | Silky Dogwood      | See detail    | 1 - 3 gallon | Subcanopy | FACW                     | 10%        | 42                |
| <i>Carpinus caroliniana</i>                                                                                                                                                                                                                                                                                              | Ironwood           | See detail    | 1 - 3 gallon | Subcanopy | FAC                      | 10%        | 42                |
| <i>Leucothoe fontanesiana</i>                                                                                                                                                                                                                                                                                            | Mountain Doghobble | See detail    | 1 - 3 gallon | Shrub     | FACW                     | 6%         | 25                |
| <i>Aronia arbutifolia</i>                                                                                                                                                                                                                                                                                                | Red Chokeberry     | See detail    | 1 - 3 gallon | Shrub     | FACW                     | 6%         | 25                |
| <i>Vaccinium corymbosum</i>                                                                                                                                                                                                                                                                                              | Highbush Blueberry | See detail    | 1 - 3 gallon | Shrub     | FACW                     | 6%         | 25                |
| <i>Viburnum nudum</i>                                                                                                                                                                                                                                                                                                    | Possumhaw Viburnum | See detail    | 1 - 3 gallon | Shrub     | OBL                      | 6%         | 25                |
| <i>Itea virginica</i>                                                                                                                                                                                                                                                                                                    | Virginia Willow    | See detail    | 1 - 3 gallon | Shrub     | OBL                      | 6%         | 25                |
| <i>Ilex verticillata</i>                                                                                                                                                                                                                                                                                                 | Winterberry        | See detail    | 1 - 3 gallon | Shrub     | FACW                     | 6%         | 25                |
| <i>Rhododendron viscosum</i>                                                                                                                                                                                                                                                                                             | Swamp Azalea       | See detail    | 1 - 3 gallon | Shrub     | FACW                     | 4%         | 17                |
| sum:                                                                                                                                                                                                                                                                                                                     |                    |               |              |           |                          | 100%       | 419               |
| Ten clusters will be planted per acre with at least 30 between each cluster. Each cluster shall consist of 10 plants on 4 - 8' centers in a roughly circular shape. Cluster shape and plant spacing can be adapted based on existing vegetation. Each cluster will have 3 canopy trees, 3 subcanopy trees, and 4 shrubs. |                    |               |              |           |                          |            |                   |

| Power Line ROW Planting Zone                                                                                                                             |               |          |            |           |                          |            |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|------------|-----------|--------------------------|------------|-----------------|
| Species                                                                                                                                                  | Common Name   | Spacing  | Size       | Stratum   | Wetland Indicator Status | % of Stems | Wilson Quantity |
| Live Stake                                                                                                                                               |               |          |            |           |                          |            |                 |
| <i>Swida amomum</i>                                                                                                                                      | Silky Dogwood | 4 x 4 ft | 0.25"-1.0" | Subcanopy | FACW                     | 20%        | 84              |
| <i>Sambucus canadensis</i>                                                                                                                               | Elderberry    | 4 x 4 ft | 0.25"-1.0" | Shrub     | FAC                      | 20%        | 84              |
| <i>Physocarpus opulifolius</i>                                                                                                                           | Ninebark      | 4 x 4 ft | 0.25"-1.0" | Shrub     | FACW                     | 20%        | 84              |
| <i>Salix sericea</i>                                                                                                                                     | Silky Willow  | 4 x 4 ft | 0.25"-1.0" | Subcanopy | OBL                      | 20%        | 84              |
| <i>Cephalanthus occidentalis</i>                                                                                                                         | Buttonbush    | 4 x 4 ft | 0.25"-1.0" | Shrub     | OBL                      | 20%        | 84              |
| Sum:                                                                                                                                                     |               |          |            |           |                          | 100%       | 420             |
| Clusters of 15 stems planted on 4' centers in roughly a circular shape. Edges of clusters will be 35' apart. Each cluster will be about 16' in diameter. |               |          |            |           |                          |            |                 |



Jacob P. McLean

Lower Mud Creek Floodplain Restoration Project  
Henderson County, North Carolina

Planting Tables 3  
Planting Plan

|            |  |
|------------|--|
| Revisions: |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |

|                   |             |
|-------------------|-------------|
| Date:             | 9/2/2025    |
| Job Number:       | 20373       |
| Project Engineer: | JPM         |
| Drawn By:         | JMF, MB, KB |
| Checked By:       | JPM         |

7.3

| Erosion Control Seed Mix |                             |                     |         |                    |
|--------------------------|-----------------------------|---------------------|---------|--------------------|
| Pure Live Seed           |                             |                     |         |                    |
| Approved Dates           | Species Name                | Common Name         | Stratum | Density (lbs/acre) |
| Aug 15 - May 14          | <i>Secale cereale</i>       | Rye Grain           | Herb    | 150                |
| May 15 - Aug 15          | <i>Fagopyrum esculentum</i> | Buckwheat           | Herb    | 30                 |
| May 15 - Aug 15          | <i>Urochloa ramosa</i>      | Browntop Millet     | Herb    | 50                 |
| Aug 15- May 31           | <i>Trifolium incarnatum</i> | Crimson Clover      | Herb    | 5                  |
| Aug 15- May 31           | <i>Trifolium repens</i>     | White Ladino Clover | Herb    | 5                  |

| Fescue Blend Seed Mix     |         |             |
|---------------------------|---------|-------------|
| Pure Live Seed            |         |             |
| Common Name               | Stratum | Density (%) |
| Crossfire 4 Tall Fescue   | Herb    | 29.9        |
| Foxhound Tall Fescue      | Herb    | 29.6        |
| Houndog Tall Fescue       | Herb    | 19.98       |
| Fayette Tall Fescue       | Herb    | 10.82       |
| Night Crawler Tall Fescue | Herb    | 9.7         |

| Riparian Buffer (Upland) Seed Mix                                                 |                                   |                          |         |                          |                         |
|-----------------------------------------------------------------------------------|-----------------------------------|--------------------------|---------|--------------------------|-------------------------|
| Pure Live Seed (20 lbs/acre)<br>Use Mix in Riparian Buffer (Upland) Planting Zone |                                   |                          |         |                          |                         |
| Approved Dates                                                                    | Species Name                      | Common Name              | Stratum | Wetland Indicator Status | Density (lbs/acre) 20.0 |
| All Year                                                                          | <i>Elymus virginicus</i>          | Virginia wildrye         | Herb    | FACW                     | 3                       |
| All Year                                                                          | <i>Dichanthelium clandestinum</i> | deertongue               | Herb    | FAC                      | 2.8                     |
| All Year                                                                          | <i>Schizachyrium scoparium</i>    | little bluestem          | Herb    | FACU                     | 2                       |
| All Year                                                                          | <i>Panicum dichotomiflorum</i>    | smooth panicgrass        | Herb    | FACW                     | 1.5                     |
| All Year                                                                          | <i>Chamaecrista fasciculata</i>   | partridge pea            | Herb    | FACU                     | 1                       |
| All Year                                                                          | <i>Coreopsis lanceolata</i>       | lanceleaf coreopsis      | Herb    | FACU                     | 1                       |
| All Year                                                                          | <i>Panicum virgatum</i>           | switchgrass              | Herb    | FAC                      | 1                       |
| All Year                                                                          | <i>Rudbeckia hirta</i>            | blackeyed susan          | Herb    | FACU                     | 1                       |
| All Year                                                                          | <i>Sorghastrum nutans</i>         | indiangrass              | Herb    | FACU                     | 1                       |
| All Year                                                                          | <i>Elymus riparius</i>            | riverbank wildrye        | Herb    | FACW                     | 1                       |
| All Year                                                                          | <i>Tripsacum dactyloides</i>      | Eastern gamagrass        | Herb    | FACW                     | 1                       |
| All Year                                                                          | <i>Andropogon gerardii</i>        | big bluestem             | Herb    | FAC                      | 0.5                     |
| All Year                                                                          | <i>Elymus hystrix</i>             | bottlebrush grass        | Herb    | UPL                      | 0.5                     |
| All Year                                                                          | <i>Senna hebecarpa</i>            | wild senna               | Herb    | FAC                      | 0.5                     |
| All Year                                                                          | <i>Zizia aurea</i>                | golden alexanders        | Herb    | FAC                      | 0.5                     |
| All Year                                                                          | <i>Chasmanthium latifolium</i>    | river oats               | Herb    | FACU                     | 0.3                     |
| All Year                                                                          | <i>Heliopsis helianthoides</i>    | oxeye sunflower          | Herb    | FACU                     | 0.3                     |
| All Year                                                                          | <i>Asclepias syriaca</i>          | common milkweed          | Herb    | FACU                     | 0.3                     |
| All Year                                                                          | <i>Bidens arisota</i>             | showy tickseed sunflower | Herb    | FACW                     | 0.3                     |
| All Year                                                                          | <i>Rudbeckia triloba</i>          | brown eyed susan         | Herb    | FACU                     | 0.2                     |
| All Year                                                                          | <i>Achillea millefolium</i>       | common yarrow            | Herb    | FACU                     | 0.1                     |
| All Year                                                                          | <i>Juncus tenuis</i>              | path rush                | Herb    | FAC                      | 0.1                     |
| All Year                                                                          | <i>Pycnanthemum tenuifolium</i>   | narrowleaf mountainmint  | Herb    | FACW                     | 0.1                     |

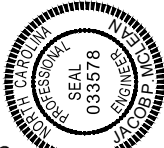
| Riparian Wetland Seed Mix                                                                               |                                   |                          |         |                          |                         |
|---------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------|---------|--------------------------|-------------------------|
| Pure Live Seed (20 lbs/acre)<br>Use Mix in Riparian Wetland Planting Zone and Streambank Planting Zones |                                   |                          |         |                          |                         |
| Approved Dates                                                                                          | Species Name                      | Common Name              | Stratum | Wetland Indicator Status | Density (lbs/acre) 20.0 |
| All-Year                                                                                                | <i>Elymus virginicus</i>          | Virginia Wildrye         | Herb    | FACW                     | 4                       |
| All-Year                                                                                                | <i>Panicum dichotomiflorum</i>    | Smooth Panicgrass        | Herb    | FACW                     | 3                       |
| All-Year                                                                                                | <i>Elymus riparius</i>            | Riverbank Wildrye        | Herb    | FACW                     | 2.5                     |
| All-Year                                                                                                | <i>Dichanthelium clandestinum</i> | Deertongue               | Herb    | FAC                      | 2                       |
| All-Year                                                                                                | <i>Tripsacum dactyloides</i>      | Eastern Gamagrass        | Herb    | FACW                     | 1.5                     |
| All-Year                                                                                                | <i>Carex vulpinoidea</i>          | Fox Sedge                | Herb    | OBL                      | 1                       |
| All-Year                                                                                                | <i>Panicum virgatum</i>           | Switchgrass              | Herb    | FAC                      | 1                       |
| All-Year                                                                                                | <i>Schizachyrium scoparium</i>    | Little Bluestem          | Herb    | FACU                     | 1                       |
| All-Year                                                                                                | <i>Helianthus angustifolius</i>   | Swamp Sunflower          | Herb    | FACW                     | 0.7                     |
| All-Year                                                                                                | <i>Panicum anceps</i>             | Beaked Panicgrass        | Herb    | FAC                      | 0.7                     |
| All-Year                                                                                                | <i>Bidens arisota</i>             | Showy Tickseed Sunflower | Herb    | FACW                     | 0.5                     |
| All-Year                                                                                                | <i>Senna hebecarpa</i>            | Wild Senna               | Herb    | FAC                      | 0.5                     |
| All-Year                                                                                                | <i>Juncus effusus</i>             | Soft Rush                | Herb    | FACW                     | 0.4                     |
| All-Year                                                                                                | <i>Carex lupulina</i>             | Hop Sedge                | Herb    | OBL                      | 0.2                     |
| All-Year                                                                                                | <i>Carex lurida</i>               | Lurid Sedge              | Herb    | OBL                      | 0.2                     |
| All-Year                                                                                                | <i>Verbena hastata</i>            | Blue Vervain             | Herb    | FACW                     | 0.2                     |
| All-Year                                                                                                | <i>Asclepias incarnata</i>        | Swamp Milkweed           | Herb    | OBL                      | 0.1                     |
| All-Year                                                                                                | <i>Eupatorium perfoliatum</i>     | Boneset                  | Herb    | FACW                     | 0.1                     |
| All-Year                                                                                                | <i>Ilex verticillata</i>          | Winterberry              | Shrub   | FACW                     | 0.1                     |
| All-Year                                                                                                | <i>Pycnanthemum tenuifolium</i>   | Narrowleaf Mountainmint  | Herb    | FACW                     | 0.1                     |
| All-Year                                                                                                | <i>Scirpus cyperinus</i>          | Woolgrass                | Herb    | FACW                     | 0.1                     |
| All-Year                                                                                                | <i>Sisyrinchium angustifolium</i> | Blue Eyed Grass          | Herb    | FACW                     | 0.1                     |

| Emergent Wetland Seed Mix                                                  |                                       |                          |         |                          |                         |
|----------------------------------------------------------------------------|---------------------------------------|--------------------------|---------|--------------------------|-------------------------|
| Pure Live Seed (10 lbs/acre)<br>Use Mix in Emergent Wetland Planting Zones |                                       |                          |         |                          |                         |
| Approved Dates                                                             | Species Name                          | Common Name              | Stratum | Wetland Indicator Status | Density (lbs/acre) 10.0 |
| All-Year                                                                   | <i>Peltandra virginica</i>            | Arrow Arum               | Herb    | OBL                      | 2                       |
| All-Year                                                                   | <i>Carex vulpinoidea</i>              | Fox Sedge                | Herb    | OBL                      | 1.9                     |
| All-Year                                                                   | <i>Elymus riparius</i>                | Riverbank Wildrye        | Herb    | FACW                     | 1                       |
| All-Year                                                                   | <i>Elymus virginicus</i>              | Virginia Wildrye         | Herb    | FACW                     | 1                       |
| All-Year                                                                   | <i>Carex lupulina</i>                 | Hop Sedge                | Herb    | OBL                      | 0.5                     |
| All-Year                                                                   | <i>Carex lurida</i>                   | Lurid Sedge              | Herb    | OBL                      | 0.5                     |
| All-Year                                                                   | <i>Juncus effusus</i>                 | Soft Rush                | Herb    | FACW                     | 0.5                     |
| All-Year                                                                   | <i>Pontederia cordata</i>             | Pickernelweed            | Herb    | OBL                      | 0.5                     |
| All-Year                                                                   | <i>Bidens arisota</i>                 | Showy Tickseed Sunflower | Herb    | FACW                     | 0.3                     |
| All-Year                                                                   | <i>Carex crinita</i>                  | Fringed Sedge            | Herb    | OBL                      | 0.3                     |
| All-Year                                                                   | <i>Ilex verticillata</i>              | Winterberry              | Shrub   | FACW                     | 0.3                     |
| All-Year                                                                   | <i>Hibiscus moschuetos</i>            | Crimsoneyed Marshmallow  | Herb    | OBL                      | 0.3                     |
| All-Year                                                                   | <i>Helianthus angustifolius</i>       | Swamp Sunflower          | Herb    | FACW                     | 0.2                     |
| All-Year                                                                   | <i>Sagittaria latifolia</i>           | Duck Potato              | Herb    | OBL                      | 0.2                     |
| All-Year                                                                   | <i>Scirpus cyperinus</i>              | Woolgrass                | Herb    | FACW                     | 0.1                     |
| All-Year                                                                   | <i>Schoenoplectus tabernaemontani</i> | Softstem Bulrush         | Herb    | OBL                      | 0.1                     |
| All-Year                                                                   | <i>Verbena hastata</i>                | Blue Vervain             | Herb    | FACW                     | 0.1                     |
| All-Year                                                                   | <i>Vernonia noveboracensis</i>        | New York Ironweed        | Herb    | FACW                     | 0.1                     |
| All-Year                                                                   | <i>Eupatorium perfoliatum</i>         | Boneset                  | Herb    | FACW                     | 0.05                    |
| All-Year                                                                   | <i>Eutrochium fistulosum</i>          | Hollow Joe Pye Weed      | Herb    | FACW                     | 0.05                    |

|                   |             |  |  |  |
|-------------------|-------------|--|--|--|
| Revisions:        |             |  |  |  |
| Date:             | 9/2/2025    |  |  |  |
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| Project Engineer: | JPM         |  |  |  |
| Drawn By:         | JMF, MB, KB |  |  |  |
| Checked By:       | JPM         |  |  |  |

Lower Mud Creek Floodplain Restoration Project  
Henderson County, North Carolina

Planting Tables 4  
Planting Plan



Jacob P. McLean



WILDLANDS  
ENGINEERING

167-B Haywood Rd  
Asheville, NC 28806  
Tel: 828.774.5547  
License No. F-0831

| Waste Reduction & Sustainability Demonstration Station |                                 |
|--------------------------------------------------------|---------------------------------|
| Amount                                                 | Description                     |
| \$400.00                                               | Miscellaneous                   |
| \$300.00                                               | Solar battery replacement       |
| \$80                                                   | Antitheft bike lock for battery |

| Amount   | Description                     |
|----------|---------------------------------|
| \$400.00 | Miscellaneous                   |
| \$300.00 | Solar battery replacement       |
| \$80     | Antitheft bike lock for battery |

| Monarch Pledge/land management related activities |                                                               |
|---------------------------------------------------|---------------------------------------------------------------|
| Purchase                                          | Description                                                   |
| \$200                                             | Symbolic Monarch Migration classroom sponsorships             |
| \$20.00                                           | Symbolic Monarch Migration fee for farmers market butterflies |

| Purchase | Description                                                   |
|----------|---------------------------------------------------------------|
| \$200    | Symbolic Monarch Migration classroom sponsorships             |
| \$20.00  | Symbolic Monarch Migration fee for farmers market butterflies |

| Business Green Partnership Program |                  |
|------------------------------------|------------------|
| Purchase                           | Description      |
| \$100.00                           | New member gifts |
| \$200.00                           | Miscellaneous    |

| Purchase | Description      |
|----------|------------------|
| \$100.00 | New member gifts |
| \$200.00 | Miscellaneous    |

| Hendo EarthFest |                    |
|-----------------|--------------------|
| Purchase        | Description        |
| \$7,000         | All event expences |

| Purchase | Description        |
|----------|--------------------|
| \$7,000  | All event expences |

| Sustainability Hero Award |             |
|---------------------------|-------------|
| Purchase                  | Description |
| \$300                     | Wood trophy |

| Purchase | Description |
|----------|-------------|
| \$300    | Wood trophy |

| Bee City Annual fee |             |
|---------------------|-------------|
| Purchase            | Description |
| \$200               |             |

| Purchase | Description |
|----------|-------------|
| \$200    |             |

Proposed budget total

\$8,800.00