### INDEX OF SHEETS

<table>
<thead>
<tr>
<th>SHEET NUMBER</th>
<th>DESCRIPTION</th>
<th>STATIONS</th>
<th>REVISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TITLE SHEET</td>
<td></td>
<td>REV0</td>
</tr>
<tr>
<td>1A</td>
<td>LOCATION MAP</td>
<td></td>
<td>REV0</td>
</tr>
<tr>
<td>1B</td>
<td>INDEX OF SHEETS</td>
<td></td>
<td>REV0</td>
</tr>
<tr>
<td>1E</td>
<td>REVISION DATA SHEET</td>
<td></td>
<td>REV1</td>
</tr>
<tr>
<td>2</td>
<td>GENERAL NOTES</td>
<td></td>
<td>REV0</td>
</tr>
<tr>
<td>2A</td>
<td>ROADSIDE DEVELOPMENT</td>
<td></td>
<td>REV1</td>
</tr>
<tr>
<td>2B</td>
<td>MASTER PLANT SCHEDULE</td>
<td></td>
<td>REV1</td>
</tr>
<tr>
<td>2D</td>
<td>LANDSCAPE DETAILS</td>
<td></td>
<td>REV1</td>
</tr>
<tr>
<td>2E</td>
<td>LANDSCAPE DETAILS</td>
<td></td>
<td>REV1</td>
</tr>
<tr>
<td>2F</td>
<td>LANDSCAPE DETAILS</td>
<td></td>
<td>REV0</td>
</tr>
<tr>
<td>3</td>
<td>LANDSCAPE AND PLANTING PLAN</td>
<td>STA. 6070+00 - STA. 6084+00</td>
<td>REV0</td>
</tr>
<tr>
<td>4</td>
<td>LANDSCAPE AND PLANTING PLAN</td>
<td>STA. 6084+00 - STA. 6099+00</td>
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</tr>
<tr>
<td>5</td>
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<tr>
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<td>LANDSCAPE AND PLANTING PLAN</td>
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<tr>
<td>9</td>
<td>LANDSCAPE AND PLANTING PLAN</td>
<td>STA. 6126+00 - STA. 6139+00</td>
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</tr>
<tr>
<td>10</td>
<td>LANDSCAPE AND PLANTING PLAN</td>
<td>STA. 6139+00 - STA. 6154+00</td>
<td>REV1</td>
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<tr>
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<tr>
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<td>14</td>
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<tr>
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<tr>
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</tr>
<tr>
<td>20</td>
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<td>STA. 6191+00 - STA. 6205+00</td>
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</tr>
<tr>
<td>21</td>
<td>POLLINATOR HABITAT ENLARGMENT</td>
<td></td>
<td>REV0</td>
</tr>
<tr>
<td>22</td>
<td>POLLINATOR HABITAT ENLARGMENT NOTES</td>
<td></td>
<td>REV0</td>
</tr>
<tr>
<td>23</td>
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</tr>
<tr>
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GENERAL NOTES

LANDSCAPING

1. All plant materials must be in accordance with the American Standard for Nursery Stock (ANSI-Z60.1) and the Virginia Department of Transportation (VDOT) Road and Bridge Specifications Section(s) 602 and 605. All plant materials must be first-class representatives of their normal species or varieties unless otherwise specified. Requests for plant material substitutions shall be approved in writing by the Landscape Architect or designated representative.

2. Specifications for plant materials shall be in accordance with VDOT Road and Bridge Specifications Section(s) 244. All plant materials must be in conformance with the American Standard for Nursery Stock (ANSI-Z60.1) and the VDOT Road and Bridge Specifications Section(s) 244. Substitution requests must be approved in writing by the Landscape Architect or designated representative.

3. Planting offsets shall be maintained from utilities and other planting constraints: (A) Overhead Utilities: min. 25'-0" from the overhead guardrail/barrier. (B) Roadside Ditches and Swales: min. 10'-0" from the edge of the ditch. (C) Guardrails and Concrete Barriers: min. 7'-0" behind the barrier/wall, excluding vines. (D) Roadside Development: min. 10'-0" from the shoulder of the roadway.

4. All plant materials shall be maintained from the edge of the interstate travel lane (highway with design speed greater than 70 mph) by the contractor. (A) Minimum tree clear zone of 10'-0" from the toe of the embankment. (B) Minimum tree clear zone of 15'-0" from the centerline of the utility. (C) Minimum tree clear zone of 25'-0" from the barrier/wall. (D) Minimum tree clear zone of 30'-0" from the edge of the ditch.

5. Permanent and temporary seeding shall be in conformance with the VDOT Road and Bridge Specifications Section(s) 244. The contractor shall notify the Landscape Architect or designated representative immediately whenever damages are likely to result.

6. All plantings shall be maintained and warranted for a period of 2 growing seasons upon Initial Phase Acceptance as defined in the project Technical Requirements Section 3.11(A). All plantings shall be maintained and warranted for a period of 5 growing seasons upon Installation Phase Acceptance as defined in the project Technical Requirements Section 3.11(A). The contractor shall notify the Landscape Architect or designated representative immediately whenever damages are likely to result.

7. Plantings shall be maintained and warranted for a period of 2 growing seasons upon Initial Phase Acceptance as defined in the project Technical Requirements Section 3.11(A). All plantings shall be maintained and warranted for a period of 5 growing seasons upon Installation Phase Acceptance as defined in the project Technical Requirements Section 3.11(A). The contractor shall notify the Landscape Architect or designated representative immediately whenever damages are likely to result.

8. The contractor shall not plant out of season without the written approval of the Landscape Architect or designated representative. See sheet 2A for seeding calendar and planting offsets.

9. Previously completed work damaged during construction shall be repaired by the contractor.

10. These plans and specifications are subject to change as deemed necessary by the Department or by Resolution of Highway Commission dated Oct 4, 1956.
### Master Plant Schedule

<table>
<thead>
<tr>
<th>Key</th>
<th>Quantity</th>
<th>Botanical Name</th>
<th>Common name</th>
<th>Size</th>
<th>Root</th>
<th>Comments</th>
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<tr>
<td>AR</td>
<td>235</td>
<td>Acer rubrum</td>
<td>Red Maple</td>
<td>1' CALIPER</td>
<td>Cont</td>
<td></td>
</tr>
<tr>
<td>SN</td>
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<td>Betula nigra</td>
<td>River Birch</td>
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<td>Cont</td>
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<tr>
<td>X</td>
<td>95</td>
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<td>Eastern Redcedar</td>
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<tr>
<td>LS</td>
<td>357</td>
<td>Liquidambar styraciflua</td>
<td>Sweetgum</td>
<td>1' CALIPER</td>
<td>B&amp;B</td>
<td>Confirm Root Condition Prior to Placement</td>
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<td>247</td>
<td>Liquidambar styraciflua</td>
<td>Sweetgum</td>
<td>1' CALIPER</td>
<td>Cont</td>
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<td>85</td>
<td>Quercus alba</td>
<td>American White Oak</td>
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<td>IB</td>
<td>337</td>
<td>Quercus rubra</td>
<td>Northern Red Oak</td>
<td>6' CALIPER</td>
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<td></td>
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<tr>
<td>TD</td>
<td>223</td>
<td>Tilia americana</td>
<td>Milk Cypress</td>
<td>5' HT.</td>
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<td>TS</td>
<td>177</td>
<td>Thuja occidentalis</td>
<td>Ponderosa Pine</td>
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<tr>
<td>AC</td>
<td>475</td>
<td>Amelanchier canadensis</td>
<td>Canadian Serviceberry</td>
<td>5' HT.</td>
<td>Cont</td>
<td>Multi-stem</td>
</tr>
<tr>
<td>CS</td>
<td>251</td>
<td>Corn canadensis</td>
<td>Eastern Redcedar</td>
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<td>248</td>
<td>Nabalagus virginiana</td>
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<td>Cont</td>
<td>Multi-stem</td>
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<tr>
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<td>Yellow Magnolia</td>
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<tr>
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<td>Mountain Elm</td>
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<td>Cont</td>
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<td>181</td>
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<td>Cont</td>
<td>Multi-stem</td>
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<tr>
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<td>Rhododendron maxima</td>
<td>Garden Rhododendron</td>
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<td>Cont</td>
<td>Multi-stem</td>
</tr>
<tr>
<td>ch</td>
<td>79</td>
<td>Eleutherococcus</td>
<td>Siberian Ginseng</td>
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<td>72</td>
<td>Helichrysum ampullaceum</td>
<td>False Sunflower</td>
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<td>3 CONT</td>
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<td>Illicium verticillatum</td>
<td>Anise Tree</td>
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<td>3 CONT</td>
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<tr>
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<td>Lindera benzoin</td>
<td>Spicebush</td>
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<tr>
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<td>164</td>
<td>Rhus aromatica</td>
<td>Fragrant Sumac</td>
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<td>3 CONT</td>
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<td>Acroptilon vidaloides</td>
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<tr>
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<td>Carex ordanica</td>
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<td>ae</td>
<td>245</td>
<td>Carex stricta</td>
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<td>Ceratodon purpureus</td>
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<td>3 CONT</td>
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<td>Purple Morning Glory</td>
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<td>Lathyrus aestivalis</td>
<td>Annual Vetch</td>
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<td>White Vetch</td>
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<td>Leucanthemum vulgare</td>
<td>Shasta Daisy</td>
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<td>3 CONT</td>
<td>5' O.C.</td>
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<tr>
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<td>Leucanthemum vulgare</td>
<td>Shasta Daisy</td>
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<td>5' O.C.</td>
</tr>
<tr>
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<td>Liriope muscari</td>
<td>Meadow Sedge</td>
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<td>3 CONT</td>
<td>5' O.C.</td>
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<td>3 CONT</td>
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<td>r</td>
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<td>Meadow Sedge</td>
<td>24 IN.</td>
<td>3 CONT</td>
<td>5' O.C.</td>
</tr>
</tbody>
</table>

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### Seed Mix

**Seed Mix C-3 - SWM Seed Mix**

- Arya: 4 lbs
- Blue Flag: 2 lbs
- Canada Wildflower: 2 lbs
- Coreopsis: 2 lbs
- Indigo Spires: 2 lbs
- Muhly: 1 lb
- Oat Grass: 1 lb
- Pampas Grass: 1 lb
- Purple Opal: 1 lb
- Red Gold: 1 lb
- Siberian Iris: 1 lb
- Tall Fescue: 1 lb
- Wild Oat: 1 lb

**Seed Mix C-4 - Transition Zone Seed Mix**

- Blue Swaying Grass: 1 lb
- Common Yarrow: 1 lb
- Coreopsis: 1 lb
- Muhly: 1 lb
- White Clover: 1 lb

**Seed Mix C-5 - Stockpile Transition Zone Seed Mix**

- Eastern White Clover: 2 lbs
- Gold Bugleweed: 2 lbs
- Indian Grass: 2 lbs
- Pampas Grass: 2 lbs
- Red Grass: 2 lbs
- Spreading Thyme: 2 lbs
- White Clover: 2 lbs

**Seed Mix M - SWM Seed Mix**

- Blue Flag: 6 lbs
- Canada Wildflower: 6 lbs
- Coreopsis: 6 lbs
- Indigo Spires: 6 lbs
- Muhly: 3 lbs
- Oat Grass: 3 lbs
- Pampas Grass: 3 lbs
- Purple Opal: 3 lbs
- Red Gold: 3 lbs
- Siberian Iris: 3 lbs
- Tall Fescue: 3 lbs
- Wild Oat: 3 lbs

**Seed Mix M - SWM Seed Mix**

- Blue Swaying Grass: 6 lbs
- Common Yarrow: 6 lbs
- Coreopsis: 6 lbs
- Muhly: 6 lbs
- White Clover: 6 lbs

---

**Note:**

- All seed mixes are to be incorporated into the transition zone seed mix and may be used with additives as approved by the district road manager.
- Seed mix C-3 shall be used as a transition zone seed mix in areas indicated on the plans. The seed mix is composed of 10% annual ryegrass and 90% perennials, grasses, and forbs.
- Seed mix C-4 shall be used as a transition zone seed mix in areas indicated on the plans. The seed mix is composed of 50% swaying grass and 50% forbs.
- Seed mix C-5 shall be used as a transition zone seed mix in areas indicated on the plans. The seed mix is composed of 50% swaying grass and 50% forbs.
- Seed mix M shall be used as a transition zone seed mix in areas indicated on the plans. The seed mix is composed of 50% swaying grass and 50% forbs.
LANDSCAPE DETAILS

BED PLANTING

3" MULCH

All areas between plants will be cultivated 6" in depth, min.

EDGE OF BED

MIN. DEPTH

CULTIVATE 6"

6"

4"

2"

SLOPE PLANTING

2" #357 AGGREGATE WHEN REQUIRED

GEOTEXTILE FABRIC

3" MULCH

IN ORIGINAL SLOPE

OMIT RING OF SOIL ON THIS SIDE OF PLANTING SLOPE (TYPICAL).

OF THE TRUCK OR STEM HAND TAPER TO THE BASE AFTER SPREADING MULCH,

RING OF SOIL

FINISHED GRADE

SOIL MIXTURE

(TYPICAL).

BOTTOM OF THE PIT MATERIAL TO THE ROOT BALL WRAPPING CUT LOOSE AND DROP FROM ROOT BALLS SHALL CONFORM TO SECTION 605 OF THE SPECIFICATIONS

** REMOVAL OF BINDING MATERIALS FROM TRUNKS AND STEMS, AND METAL CAGES

DOUBLE STAKING & STAKE PLACEMENT

TRIPLE - GUYING

VERTICAL ANGLE AND DRAW DRIVE STAKE AT THE BALL OR ROOT AREA STAKES WILL BE DRIVEN OUTSIDE MIN. 1'-6"

2" X 2" X 6'-0" LONG STAKE

FIRST BRANCH ATTACH ABOVE THE SHOULDER OF THE TRUCK OR STEM 2'-0" DEPTH OF STAKES

SHRUBS 4 FEET OR MORE IN HEIGHT

EVERGREEN TREES LESS THAN 4 FEET IN HEIGHT

DECIDUOUS TREES LESS THAN 2" IN CALIPER

EVERGREEN 4 FEET IN HEIGHT OR GREATER

DECIDUOUS TREES 2" IN CALIPER OR GREATER

WIRE GALVANIZED 14 GAUGE

COLOR, GREEN

5/8" DIA. GARDEN HOSE

BALLED & BURLAPPED & CONTAINER PLANTS

NEW SLOPE

SIDE OF SLOPE

RING OF SOIL ON DOWNWARD

IMPROVED BACKFILL SHALL CONSIST OF 2/3 CLASS B TOPSOIL AND 1/3 ORGANIC COMPOST.

IMPROVED BACKFILL SHALL BE INCORPORATED AS A PLANTING MEDIUM.

Approved backfill shall consist of 2/3 class B topsoil and 1/3 organic compost.

* NOTE:

Erosion and Sediment Control
SHRUBS 4 FEET OR MORE IN HEIGHT

EVERGREEN TREES LESS THAN 4 FEET IN HEIGHT

DECIDUOUS TREES LESS THAN 2" IN CALIPER

EVERGREEN 4 FEET IN HEIGHT OR GREATER

DECIDUOUS TREES 2" IN CALIPER OR GREATER

SLOPE DOUBLE STAKING & STAKE PLACEMENT

SLOPE TRIPLE - GUYING

TIES ARE TO BE MADE ABOVE FIRST BRANCH.

DRIVE STAKE OUTSIDE BALL OF ROOT AREA AT ANGLE AND DRAW VERTICAL.

2" X 2" X 6'-0" STAKE.

BEGIN SOIL RING

TIGHTEN TWISTED TO WIRE

SIDE UPHILL

SIDE DOWNHILL

END SOIL RING

(TYPICAL)

THE BOTTOM OF THE PIT

BALL WRAPPING MATERIALS TO CUT LOOSE AND DROP ROOT

DEPTH OF BALL (A.A.N. ST'D.)

SLOPE DOWNHILL SIDE OF

3" RING OF SOIL ON AND BELOW AGGREGATE GEOTEXTILE FABRIC ABOVE 2" #357 AGGREGATE WHEN REQUIRED

BALLED AND BURLAPPED SOIL MIXTURE

TREE TRUNK SHALL BE FREE OF MULCH 3" MULCH DEPTH.

NEW SLOPE BRANCHING HEIGHT

GRADE EXISTING

GRADE NEW SLOPE

BRANCHING HEIGHT

3" MULCH DEPTH.

TREE TRUNK SHALL BE FREE OF MULCH SOIL MIXTURE BALLED AND BURLAPPED SLOPE DOWNHILL SIDE OF 3" RING OF SOIL ON AND BELOW AGGREGATE GEOTEXTILE FABRIC ABOVE 2" #357 AGGREGATE WHEN REQUIRED

BEGIN SOIL RING TIGHTEN TWISTED TO WIRE SIDE UPHILL SIDE DOWNHILL END SOIL RING (A.A.N. ST'D.) DEPTH OF BALL AND BELOW AGGREGATE GEOTEXTILE FABRIC ABOVE 2" #357 AGGREGATE WHEN REQUIRED

FERTILIZER PLACEMENT

BALLED & BURLAPPED, @ CONTAINER PLANTS

PERENNIAL, GRASS, AND FORB PLANTING

INTERPRETIVE SIGNAGE PANEL

*NOTE:

IMPROVED BACKFILL SHALL BE INCORPORATED AS A PLANTING MEDIUM.

IMPROVED BACKFILL SHALL CONSIST OF 2/3 CLASS B TOPSOIL AND 1/3 ORGANIC COMPOST.
TYPICAL CLEAR ZONE DETAIL

INTERSTATE CLEAR ZONE SHALL BE IN CONFORMANCE WITH AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (GREEN BOOK), 7TH EDITION. INTERSECTION SIGHT DISTANCES SHALL BE MAINTAINED FOR THE EDGE OF TRAVEL LANE.

THE DISTANCE BETWEEN PLANTS SHALL BE APPROXIMATELY 10'-0" MIN. BETWEEN PLANTING AREAS, WITHIN THE RANGER."
<table>
<thead>
<tr>
<th>Quantity</th>
<th>Species</th>
<th>#3 Cont.</th>
<th>S.Y.</th>
<th>Cont</th>
<th>P atio Cont</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Cherry Maple</td>
<td></td>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Hophornbeam</td>
<td></td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Mix</td>
<td></td>
<td>80</td>
<td></td>
<td></td>
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</tbody>
</table>

**LANDSCAPING PLANTING PLANS FOR SWMP ONDS**

**DESIGN FEATURES RELATING TO CONSTRUCTION**

1. **Southern Pin**
2. **Common White**
3. **Liriodendron**
4. **Hamamelis**

**MIX**

**Construction**

- Stockpile
- Transition
- Southern Pin

**PROJECT**

- 5’ Wall
- 6’ Wood Fence
- 1’ Wood Fence
- 6’ Wood Wall

**SURVEYED BY, DATE**

- IP
- Hose Bib
- Wood Wall

**PROJECT MANAGER**

- 2,088 S.Y. C-4
- Match Line Sta. 28+30.00, Sheet 17
- Match Line Sta. 81+07.00, Sheet 11
- Match Line Sta. 87+00.00, Sheet 17
- Chain B
- Road

**TRANSITION**

- 410 TD
- 46 QP
- 95
- 83
- 80

**UNDERSTORY**

- 12
- 10 PV
- 385
- 380
- 25

**SEED**

- Magnolia
- Thuja
- Liriodendron
- Hamamelis
- Common White
- Southern Pin

**Notes:**

- All construction items are to be completed by the construction team.
AFC PLANS

LANDSCAPE ARCHITECTURE PLANS

I-66 S3A

FLUOREA TESTER

MAY BE SUBJECT TO CHANGE AS DEEMED OR TO REGULATION AND CONTROL OF TRAFFIC.

I66_S3A_CHA_ENV_DWG_LND_14_REV0_AFC.dgn
NO PLANTING THIS SHEET
SWM Seed Mix

<table>
<thead>
<tr>
<th>Project</th>
<th>SWM Seed Mix</th>
</tr>
</thead>
</table>

### Plan Schedule

- **Materials**
  - Root L1
  - L2

### Match Line Schedule

- **Match Line S**
  - Sheet 2
  - Topo Line S
  - Sheet 2

### Project Details

- **Project Manager**
  - Rice Associates (703) 968-3200, September 2014

### Design Features

- **Design Features Relating to Construction**
  - NECESSARY BY THE DEPARTMENT
  - DESIGN FEATURES RELATING TO CONSTRUCTION

### A.F.C. Plans

- **A.F.C. Plans**
  - 0066-96A-497
  - JAB SEGMENT 3A

### Landscape Architecture Plans

- **Landscape Architecture Plans**
  - I-66 SEGMENT 3A
  - 2015-06-01
  - By Resolution of Highway Commission

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1. Submittal
   A. Submittal, in accordance with Specifications, Submittals, certificates of compliance before delivery of materials for the following items:
      1. Soil Amendments
         a. Use soil tests to determine the optimum recommendations for both lime and fertilizer. Soil analysis shall be performed by a soil testing laboratory approved by the Virginia Department of Agriculture and Consumer Services. The results shall be submitted to the Landscape Architect/Engineer.
         b. After the existing vegetation has been removed, prepare the soil surface for planting. The surface should be smooth and lightly packed, free of debris, stones, or other materials larger than 1.5 inches in diameter. It shall be free of any known viable pathogens.
         c. Topsoil placed on slopes greater than 5% shall be promptly limed and fertilized (if needed), seeded, mulched, and tracked with suitable equipment.
         d. Topsoil shall be friable and loamy, free of debris, stones, or other materials larger than 1.5 inches in diameter. It shall be free of any known viable pathogens.
      2. Organic Amendments
         a. Certified chemical and mechanical analysis of samples of topsoil, soil mixes, soil amendments shall be submitted for approval.
         b. Certified chemical and mechanical analysis of samples of topsoil, soil mixes, soil amendments shall be submitted for approval.
   B. Site Plan
      a. Submit Site Plans and Sectional Plans for approval, all to be reviewed, engineered, approved, and stamped by the owner.
      b. Submit Site Plans and Sectional Plans for approval, all to be reviewed, engineered, approved, and stamped by the owner.
   C. Fertilizer
      a. Certified chemical and mechanical analysis of samples of topsoil, soil mixes, soil amendments shall be submitted for approval.
      b. Certified chemical and mechanical analysis of samples of topsoil, soil mixes, soil amendments shall be submitted for approval.
   D. Pollinator Habitat Notes
      a. Submit Site Plans and Sectional Plans for approval, all to be reviewed, engineered, approved, and stamped by the owner.
      b. Submit Site Plans and Sectional Plans for approval, all to be reviewed, engineered, approved, and stamped by the owner.
   E. Design
      a. Submit Site Plans and Sectional Plans for approval, all to be reviewed, engineered, approved, and stamped by the owner.
      b. Submit Site Plans and Sectional Plans for approval, all to be reviewed, engineered, approved, and stamped by the owner.

2. Preparation
   A. The preparation of the native soil shall be done in accordance with Specifications, Submittals, certificates of compliance before delivery of materials for the following items:
      1. Soil Amendments
         a. Use soil tests to determine the optimum recommendations for both lime and fertilizer. Soil analysis shall be performed by a soil testing laboratory approved by the Virginia Department of Agriculture and Consumer Services. The results shall be submitted to the Landscape Architect/Engineer.
         b. After the existing vegetation has been removed, prepare the soil surface for planting. The surface should be smooth and lightly packed, free of debris, stones, or other materials larger than 1.5 inches in diameter. It shall be free of any known viable pathogens.
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   B. Site Plan
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### Pollinator Habitat Notes

**6 INSTALLATION**

<table>
<thead>
<tr>
<th>序号</th>
<th>内容</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>合适的播种季节：春季（3月1日至4月30日）；秋季（8月15日至10月15日）。</td>
</tr>
<tr>
<td>B.</td>
<td>与制造商合作，根据安装说明中的更严格要求来执行。</td>
</tr>
<tr>
<td>C.</td>
<td>在只能种植的土壤上进行播种。土壤应由不含未分解有机物的园艺土壤组成。在播种前，土壤应由至少6英寸深的流动性湿润的土壤和每1000平方英尺15的有机物质组成。</td>
</tr>
<tr>
<td>D.</td>
<td>播种后，应将种子覆盖3至5英寸的细沙。播种后，种子应立即浇水，保持土壤湿润。</td>
</tr>
</tbody>
</table>

**8 CONSTRUCTION/INSTALLATION**

- **A.** 土壤应由不含未分解有机物的园艺土壤组成。在播种前，土壤应由至少6英寸深的流动性湿润的土壤和每1000平方英尺15的有机物质组成。
- **B.** 播种后，应将种子覆盖3至5英寸的细沙。播种后，种子应立即浇水，保持土壤湿润。 |

**14 MAINTENANCE ACCEPTANCE**

- **A.** 安装阶段的最后两周，应在这两周中使用无杀草剂的种植工具进行种植，以防止土壤出现过度种植。如果在种植后没有发生过度种植，种植后至少3周后可进行首次除草。
- **B.** 自种植后3至5周内，应进行除草。使用除草剂时，应保持离植物根部至少1英寸的距离。除草应使用无毒性的除草剂。 |

**15 MAINTENANCE**

- **A.** 除草后，应立即浇水，保持土壤湿润。 |
- **B.** 自种植后3至5周内，应进行除草。使用除草剂时，应保持离植物根部至少1英寸的距离。除草应使用无毒性的除草剂。 |
- **C.** 除草后，应立即浇水，保持土壤湿润。 |

**16 WATERING**

- **A.** 水稻的根部被土壤覆盖时，应立即浇水，保持土壤湿润。 |
- **B.** 水稻的根部被土壤覆盖时，应立即浇水，保持土壤湿润。 |
- **C.** 水稻的根部被土壤覆盖时，应立即浇水，保持土壤湿润。 |

**17 INSPECTION**

- **A.** 安装阶段的最后两周，应在这两周中使用无杀草剂的种植工具进行种植，以防止土壤出现过度种植。如果在种植后没有发生过度种植，种植后至少3周后可进行首次除草。
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