


PROJECT:
Brunswick County, US 74/17 and NC 133/SR 1472 Interchange

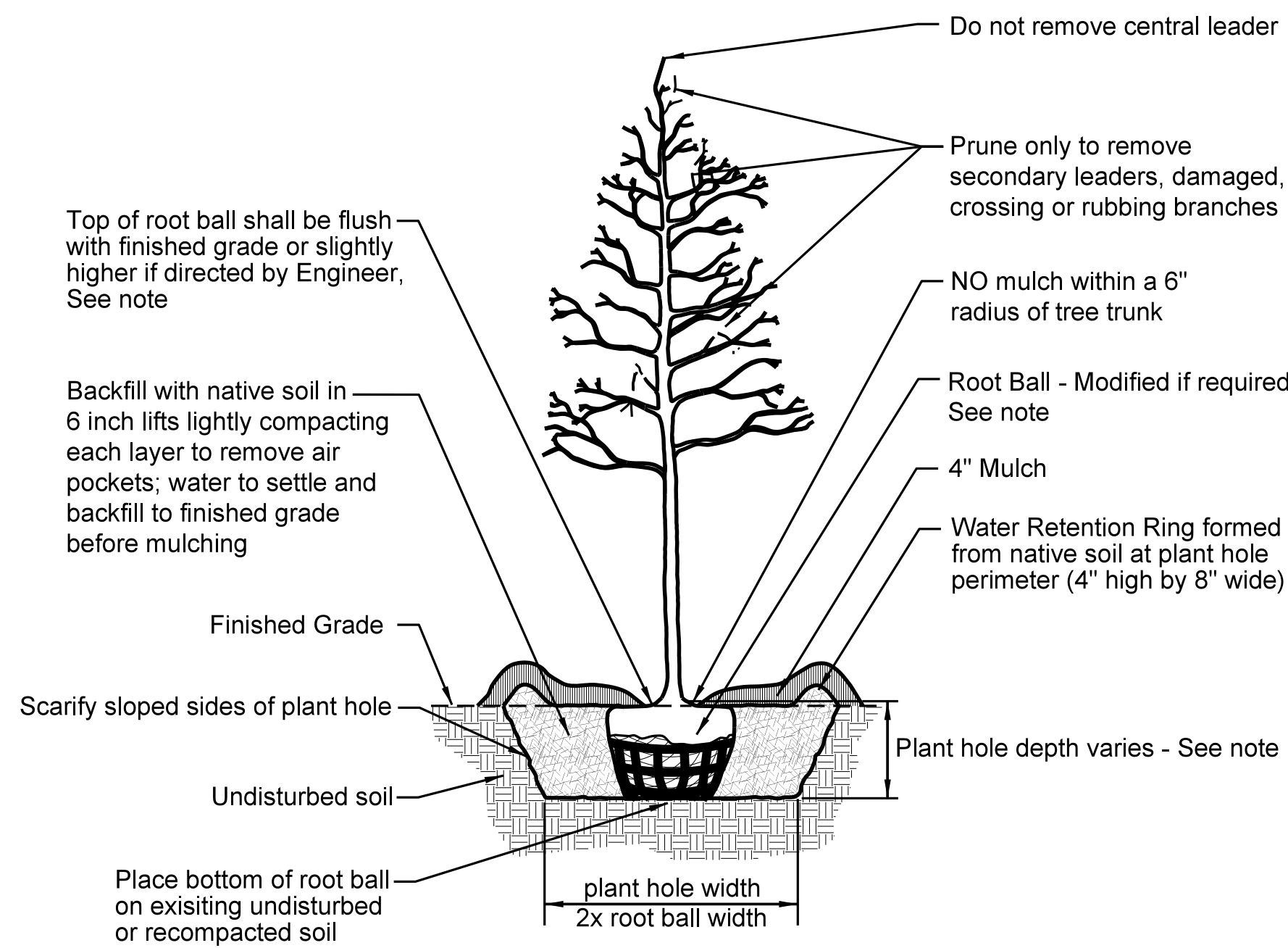
VICINITY MAP

A map of North Carolina showing its 100 counties. Brunswick County is highlighted in red. An arrow points from the text 'PROJECT LOCATION' to Brunswick County. The Atlantic Ocean is labeled to the east of the state.

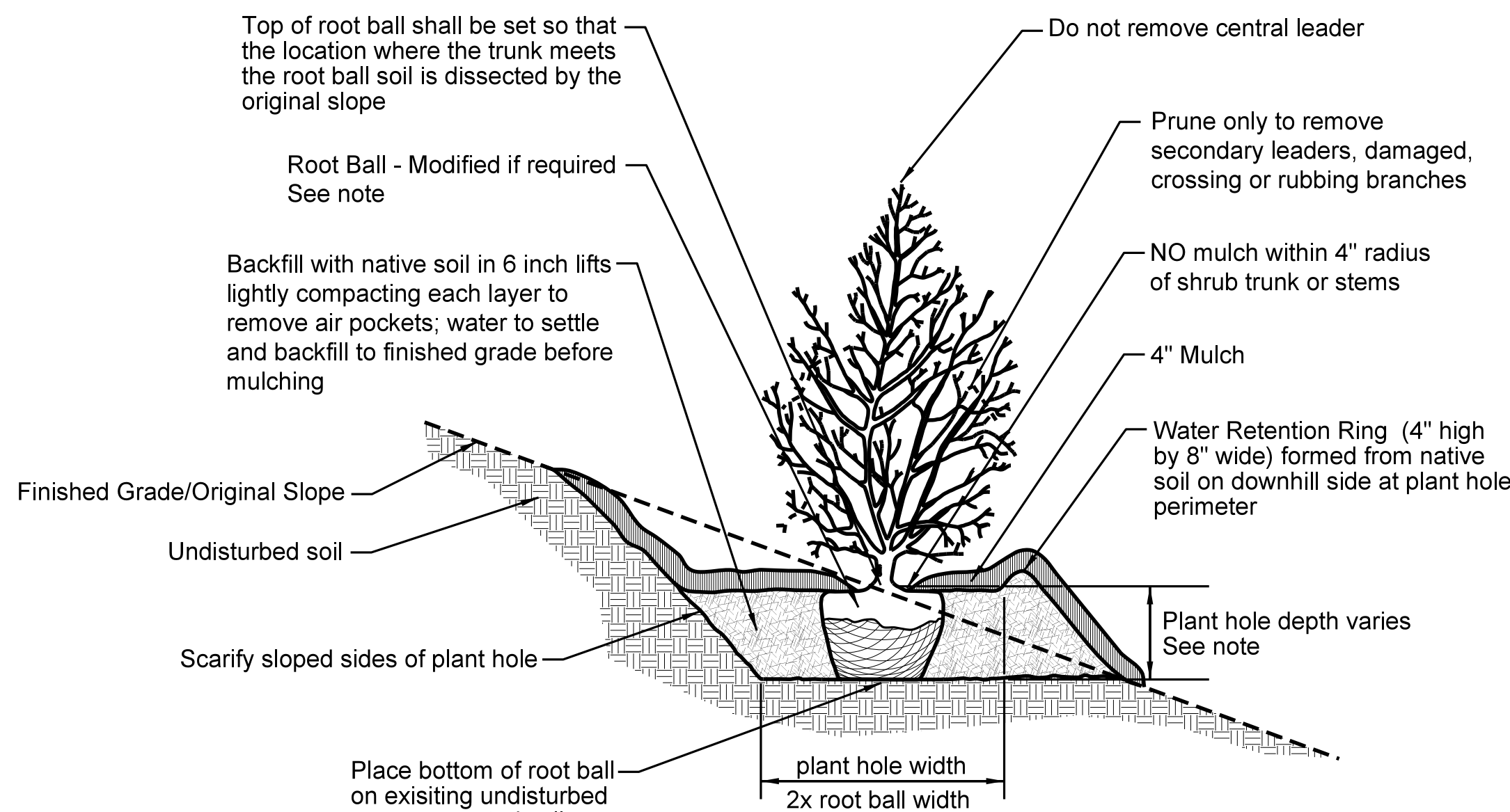


PROJECT:	US 74/17 & NC 133/SR 1472 Interchange
DIVISION AND COUNTY:	Division 3 - Brunswick
PRELIMINARY DESIGN DATE :	August, 2017
FINAL DESIGN DATE :	May 25, 2018
REVISION DATES :	July 10, 2018

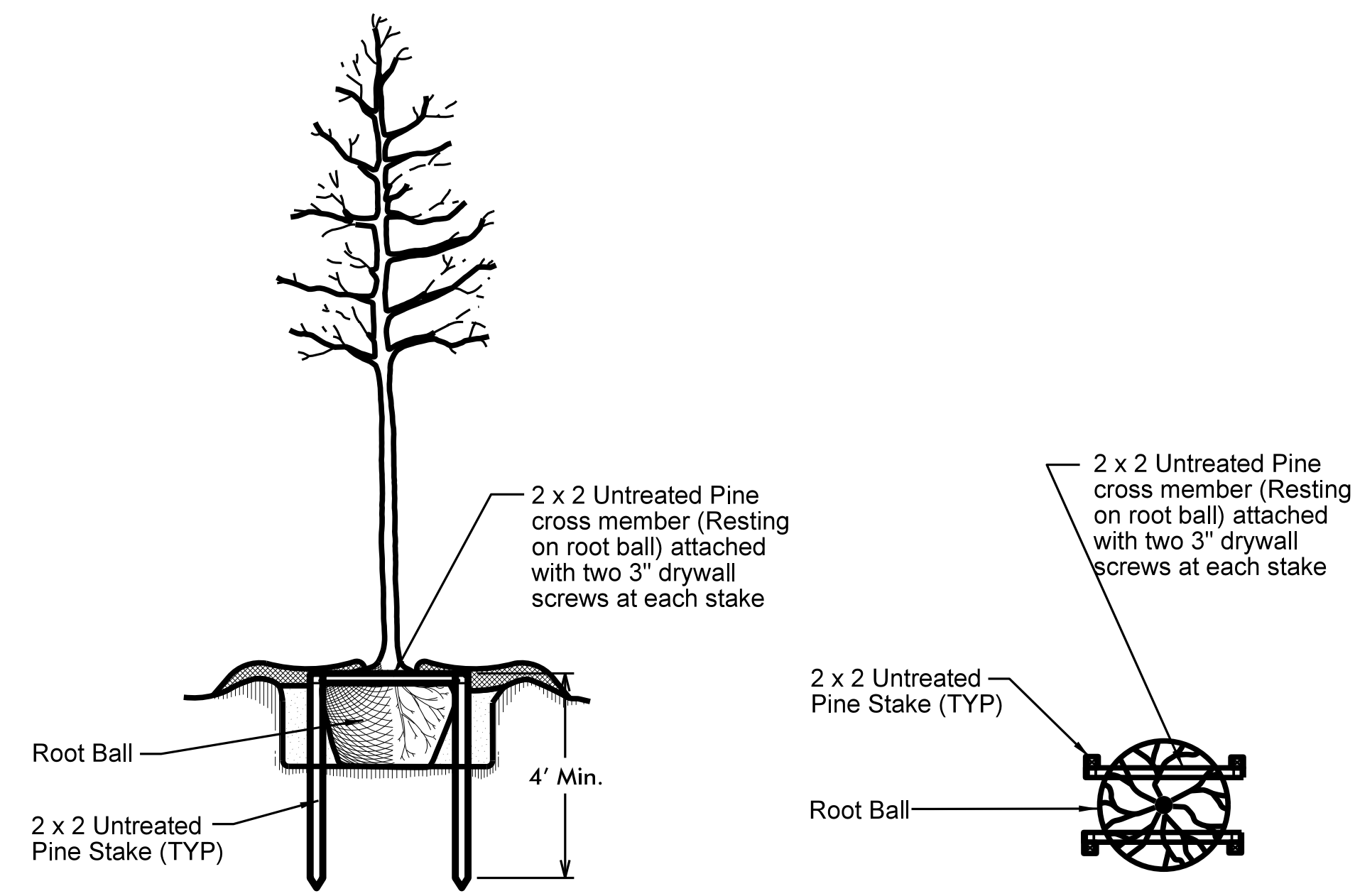
SHEET NUMBER
1
TOTAL SHEETS
6



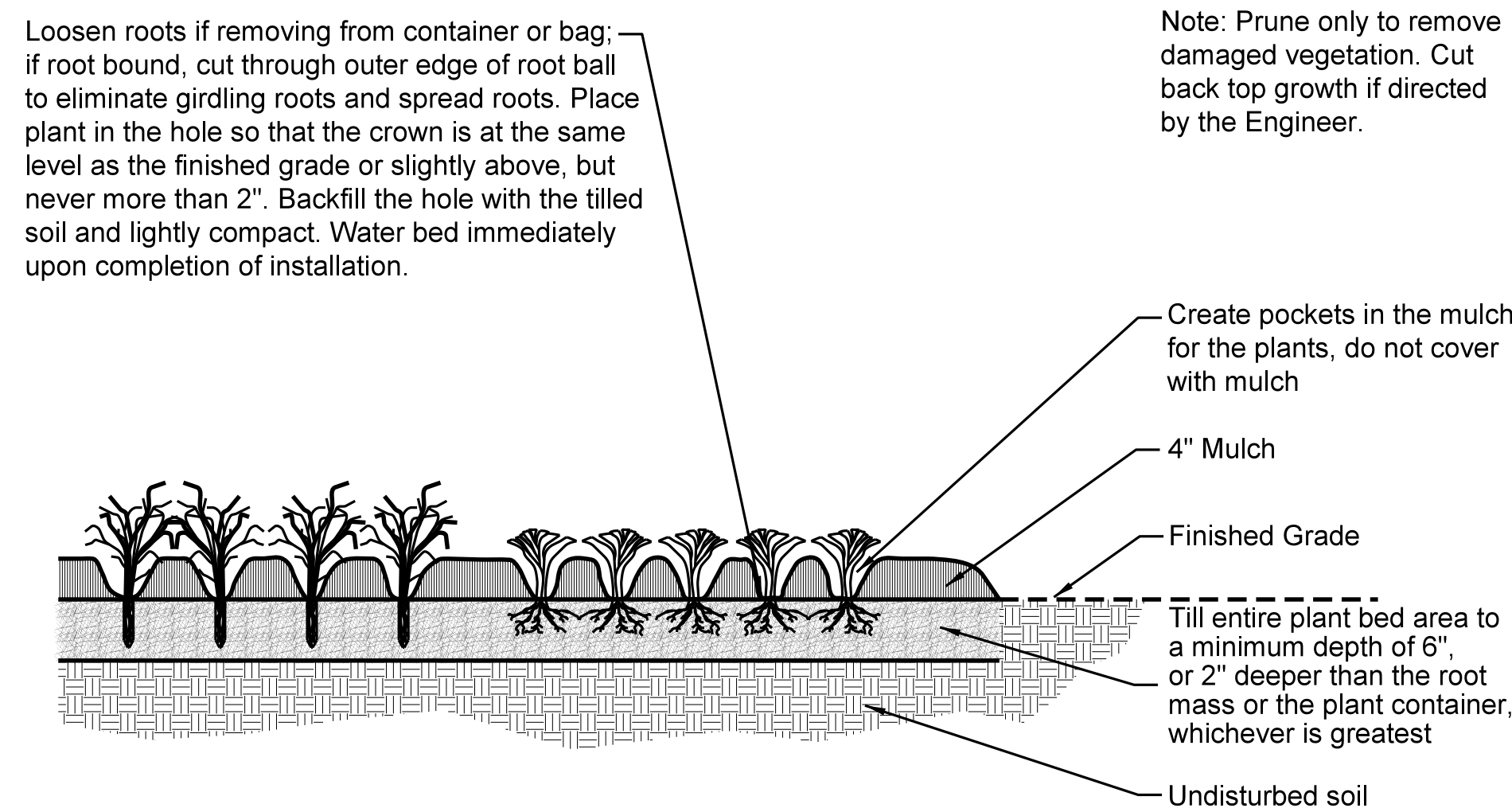
Tree or Shrub Planting Detail
(Level Ground)



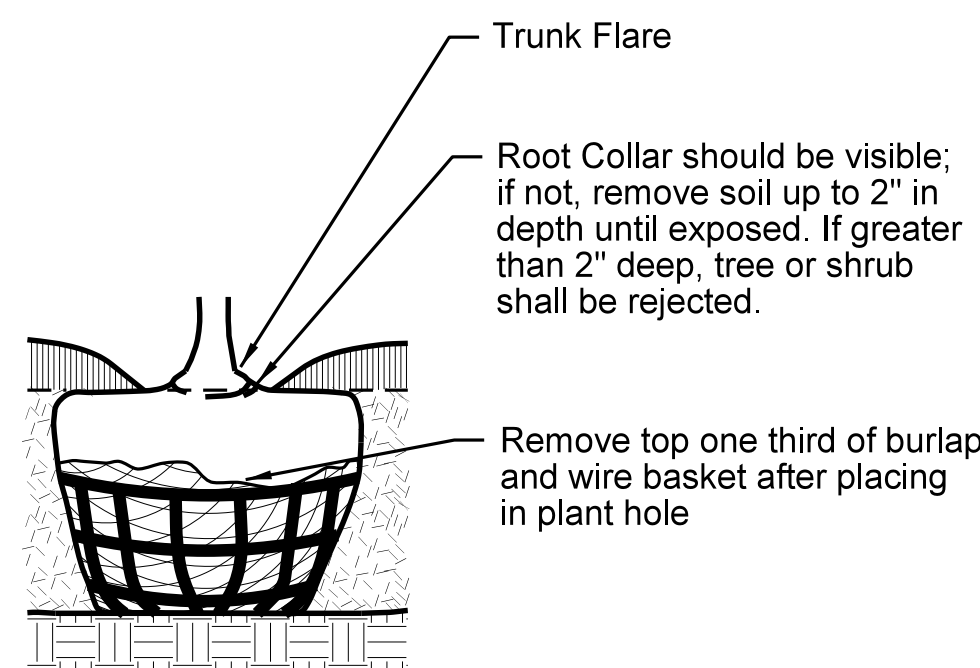
Tree or Shrub Planting Detail
(Level Ground)



Root Ball Staking Detail
Trees or Shrubs 8' or Taller

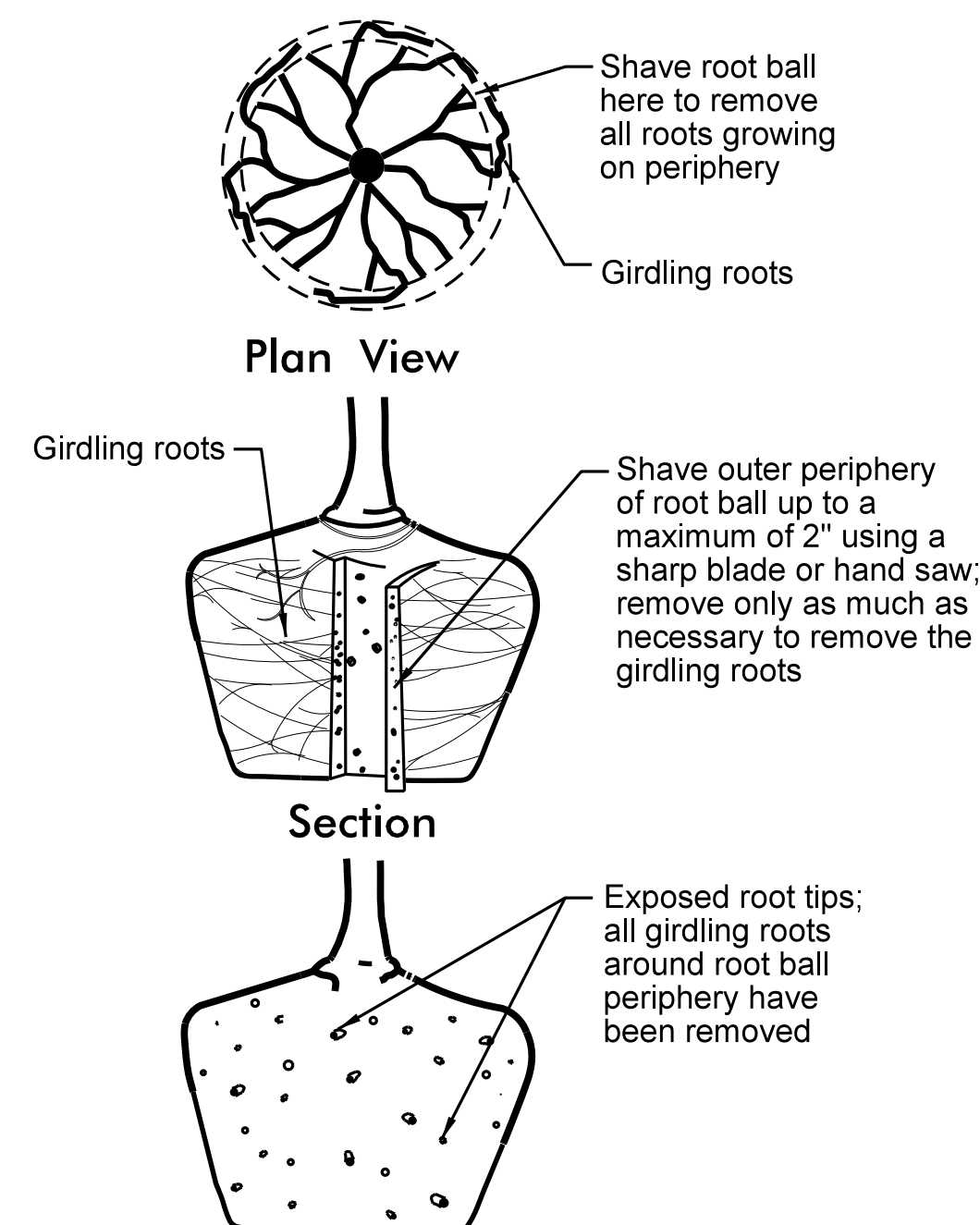


Plant Bed Detail
(Herbaceous Perennials, Ornamental Grasses,
Groundcovers, Vines, Bulbs, Corms and Tubers)
(Small Containers or Bare Root)



*Inspect all plants to locate root collar prior to acceptance. Plants with root collar depth greater than 2" from the top of the root ball shall be rejected.

Root Ball Depth /Root Collar



*Inspect and perform for all plants that exhibit girdling root systems. Root ball shaving may be done just prior to or after placing in planting hole.

Root Ball Shaving

Planting Detail Notes:

- See Standard Specifications for Plant Bed preparation and herbicidal treatment.
- Plant hole width shall be a minimum of 2 times the diameter of the container or the root ball. Plant hole depth shall be equal to the final depth of the root ball after any modifications. The root ball shall be set on undisturbed soil or re-compacted soil and the root collar shall be visible.
- In average to well drained soils, the root collar shall be set level with the surrounding finished grade. If planting in heavy clay or otherwise poorly draining soils, the Engineer may require the root ball to be slightly higher than the surrounding finished grade.
- Fertilizer shall be applied at time of planting. Fertilizer shall be a slow release pellet or tablet. Formulation shall be approved by engineer in field. Rates shall be per manufacturer's recommendations and approved by engineer in field. Thoroughly mix with backfill, topsoil or scarified soil.
- Backfill plant hole with native soil unless soil is determined to be unacceptable. Remove rocks greater than 3 inches, foreign materials and construction debris from backfill material. If native soil cannot be used, use soil with properties similar to that in the area and approved by the Engineer.
- Do not place mulch within 4" of tree or shrub trunk. Root collar should be visible.
- When a mulched bed is adjacent to a guardrail run mulch to front edge of guardrail.
- Pruning shall be done as indicated on detail and as directed by the Engineer. Any pruning necessary shall follow current standard arboricultural practices and the International Society of Arboriculture recommendations.
- Trees or large shrubs shall be root ball staked if needed and at the direction of the Engineer. Any substitutions of material or method must be approved by the Engineer prior to installation.
- All trees and shrubs shall be planted in an upright, plumb position. If a tree or shrub needs to be straightened, it shall be dug and replanted in correct position.
- All plant material tags and/or flagging tape shall be removed from all plants prior to final acceptance of the project.

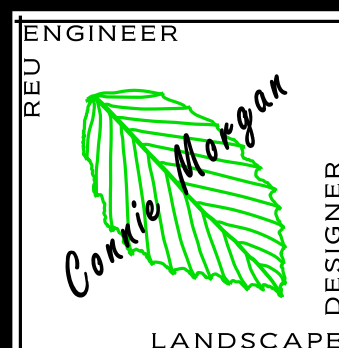
Drawings are not to scale



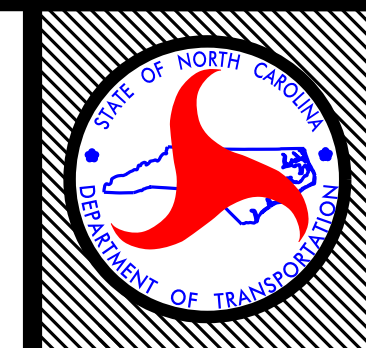
NCDOT - Roadside Environmental Unit Aesthetic Engineering Section

1557 Mail Service Center Raleigh NC 27699-1557
Phone: 919-707-2920 Fax: 919-715-2554

http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/



Landscape Enhancement Project - R-3601
Brunswick County
US 74/17 Interchange with NC 133, River Road SE
and SR 1472, Village Road NE



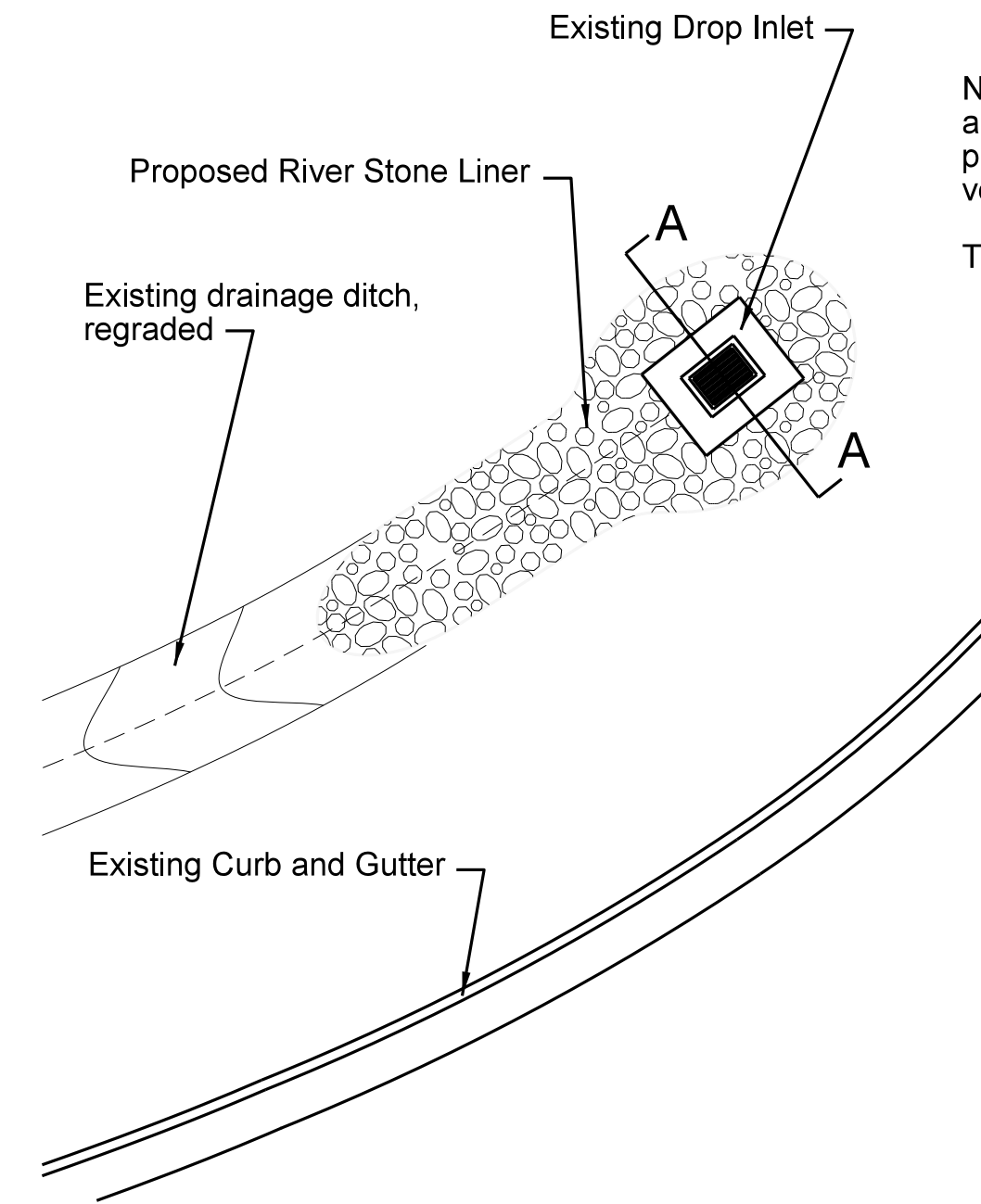
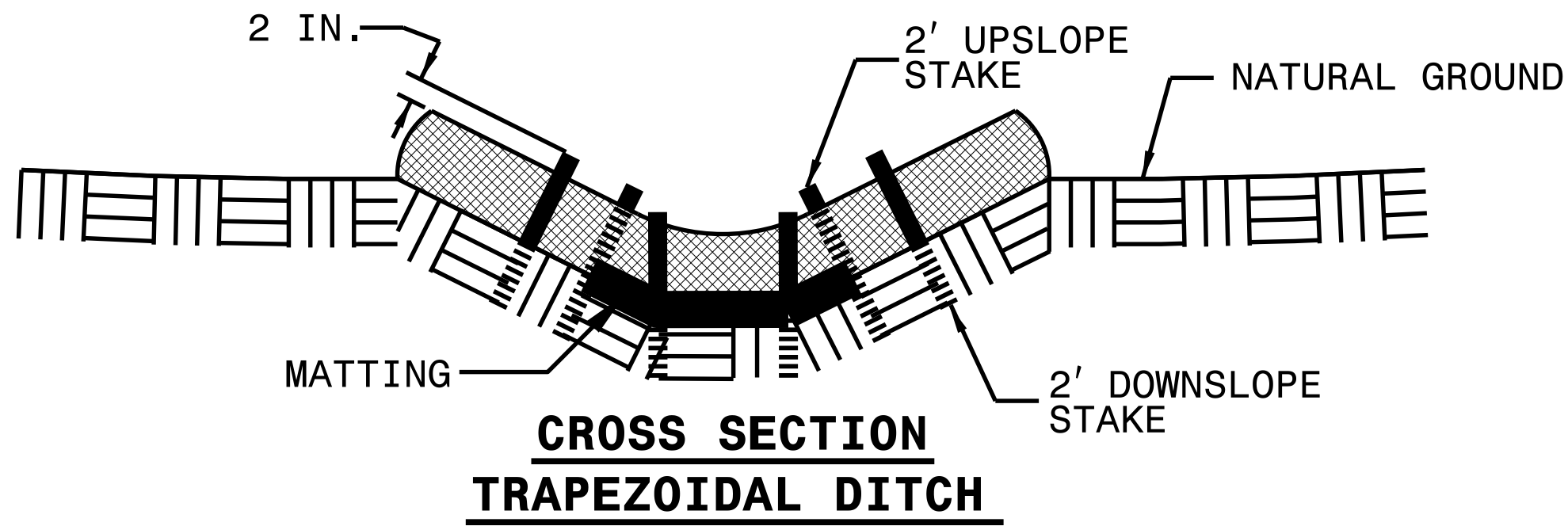
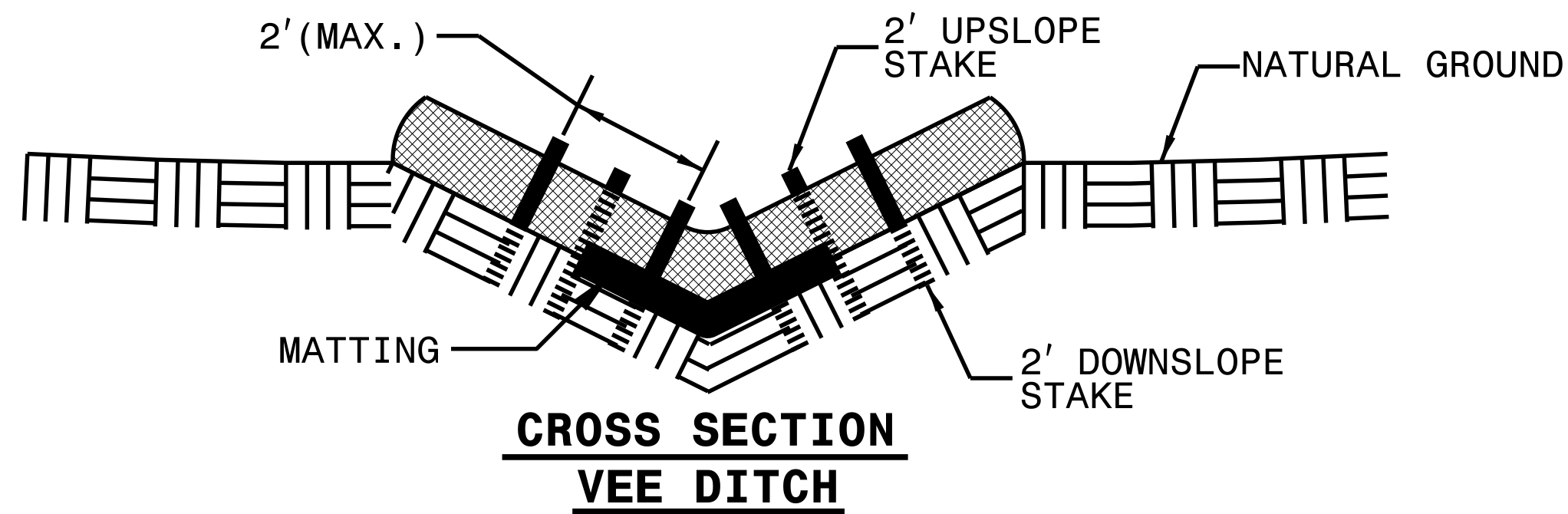
SHEET DESCRIPTION:

Landscape Development Plans

Planting Details

PROJECT:
US 74/17 & NC 133/SR 1472 Interchange
DIVISION AND COUNTY:
Division 3 - Brunswick
PRELIMINARY DESIGN DATE : August, 2017
FINAL DESIGN DATE : May 25, 2018
REVISION DATES : July 10, 2018

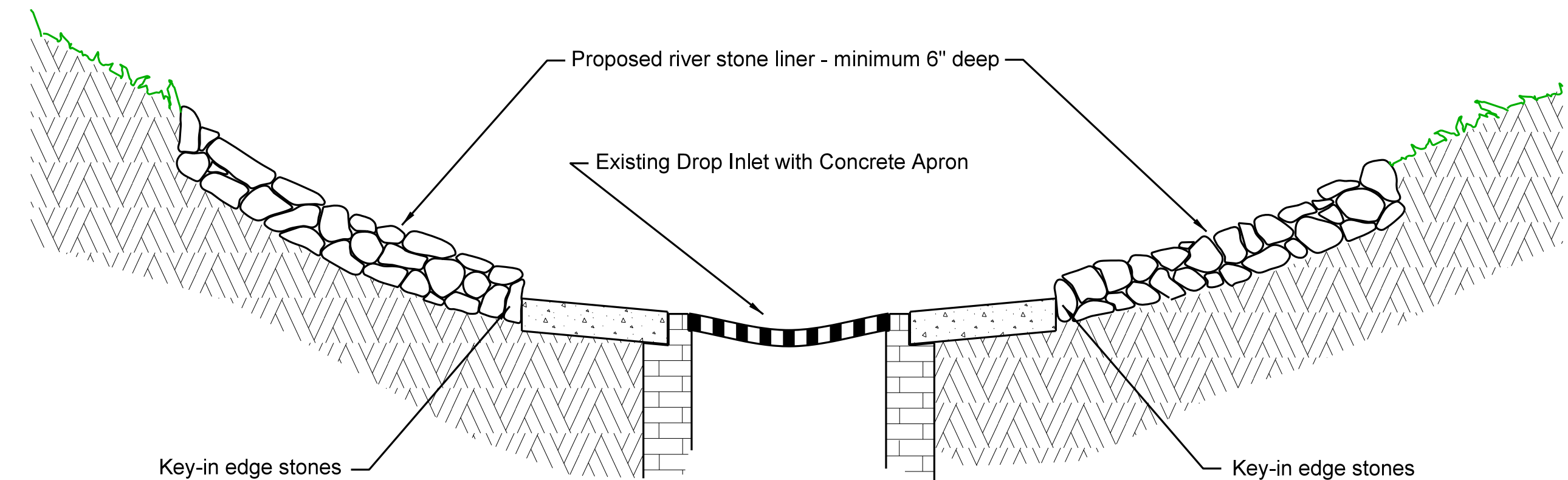
SHEET NUMBER
2
TOTAL SHEETS
6



Drop Inlet River Stone Liner Detail
Plan View

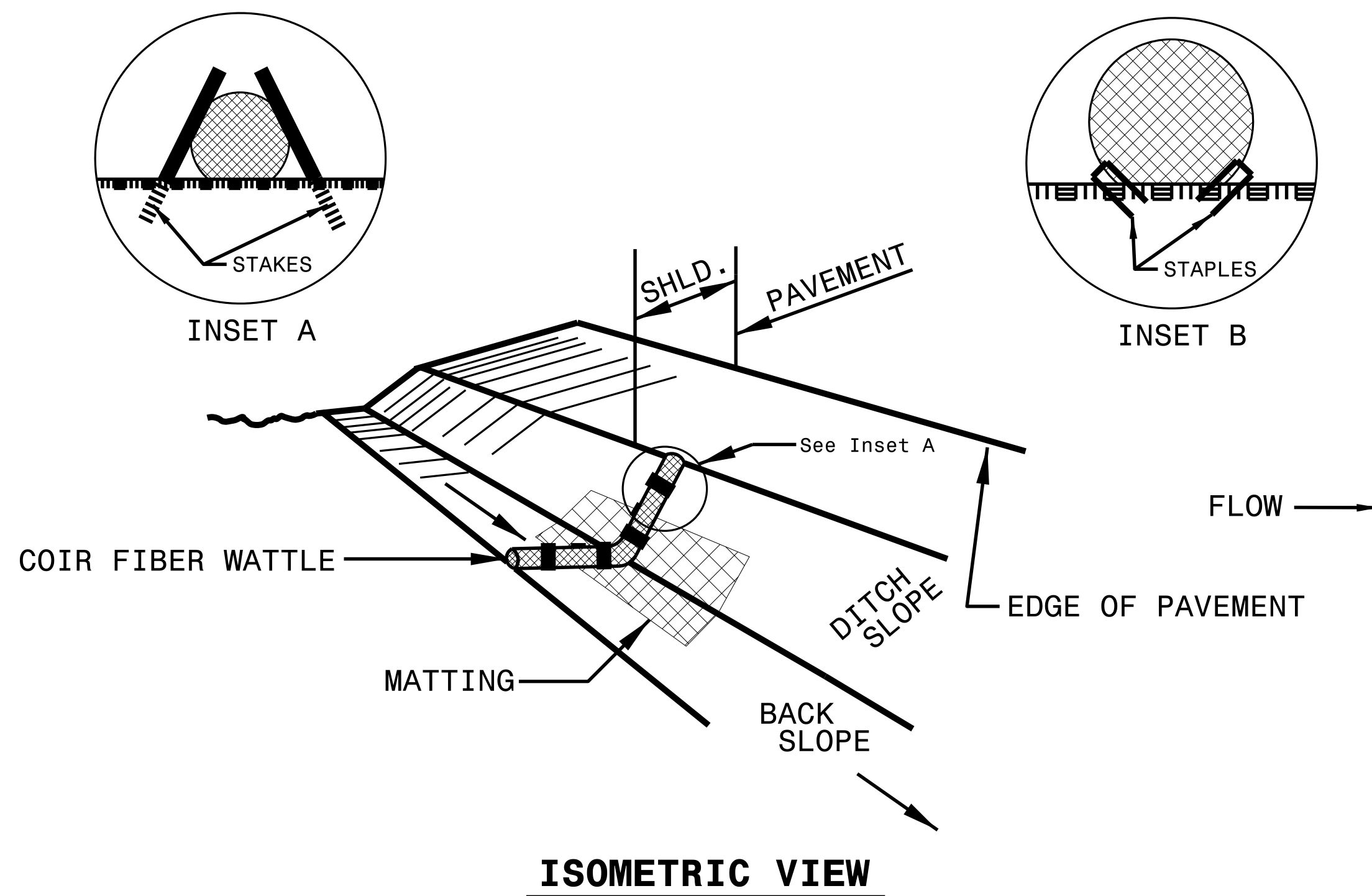
NOTE: The drainage ditches in all four quadrants are to be renovated at the direction of the Engineer in the field. Remove any woody vegetation and regrade as needed to provide a smooth flow of runoff. Install erosion control devices as needed and as directed by the Engineer. Once positive drainage has been achieved and any irregular depressions or 'washes' have been filled with topsoil, prepare and seed to establish a vegetative cover as soon as possible.

The area immediately around the existing drop inlets is to be lined with river stone as shown in the details.

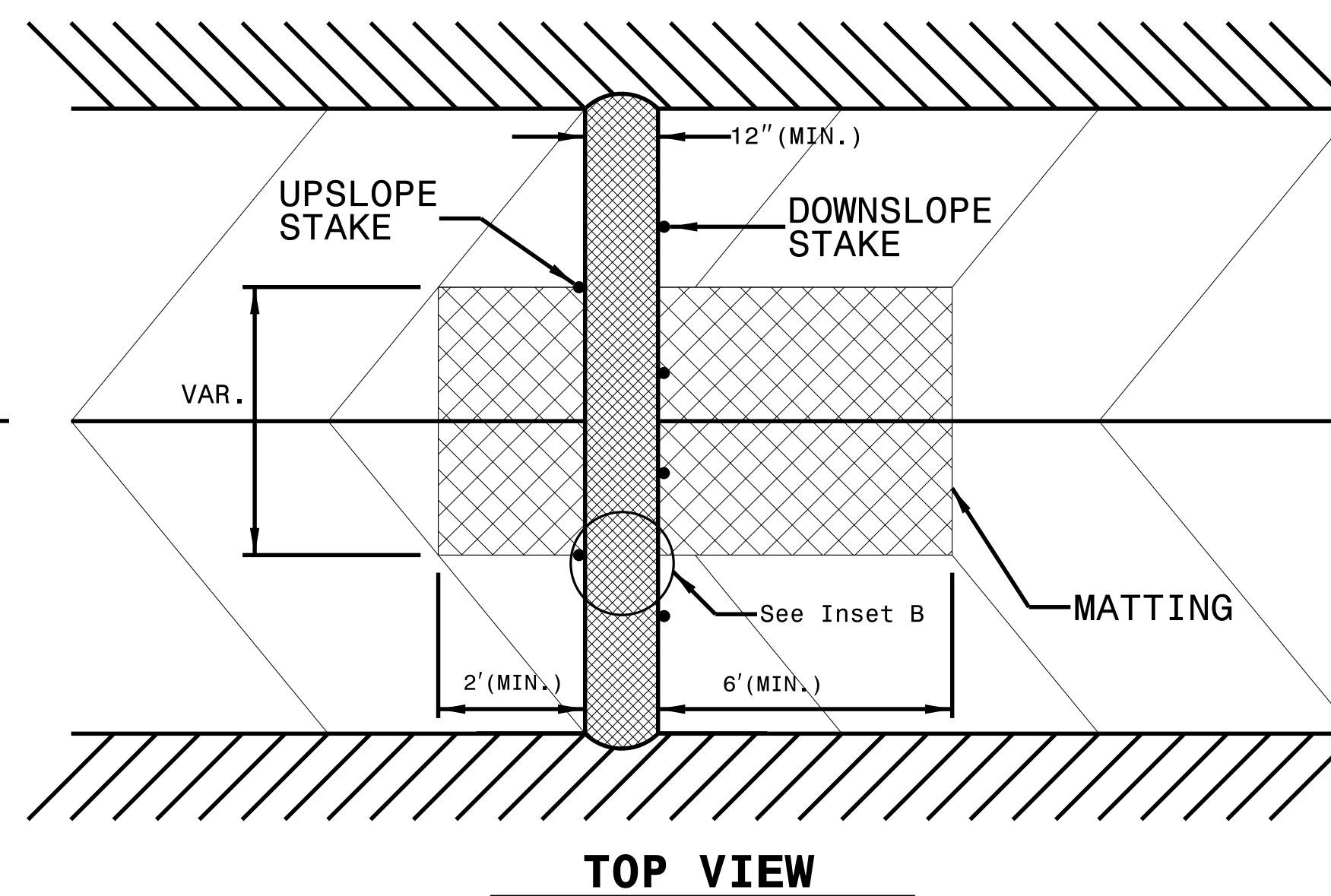


Drop Inlet River Stone Liner Detail
Cross Section A-A

Drawings are not to scale



COIR FIBER WATTLE DETAIL



TOP VIEW

Wattle Notes:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

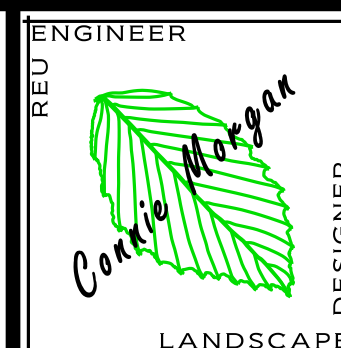
Drawings are not to scale



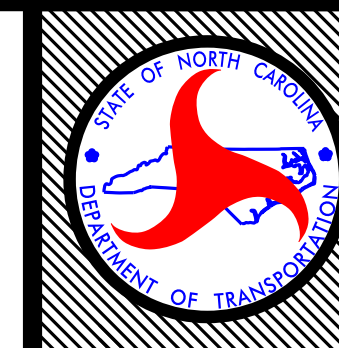
NCDOT - Roadside Environmental Unit
Aesthetic Engineering Section

1557 Mail Service Center Raleigh NC 27699-1557
Phone: 919-707-2920 Fax: 919-715-2554

<http://www.ncdot.org/doh/operations/dp.chief.eng/roadside/>



Landscape Enhancement Project - R-3601
Brunswick County
US 74/17 Interchange with NC 133, River Road SE
and SR 1472, Village Road NE



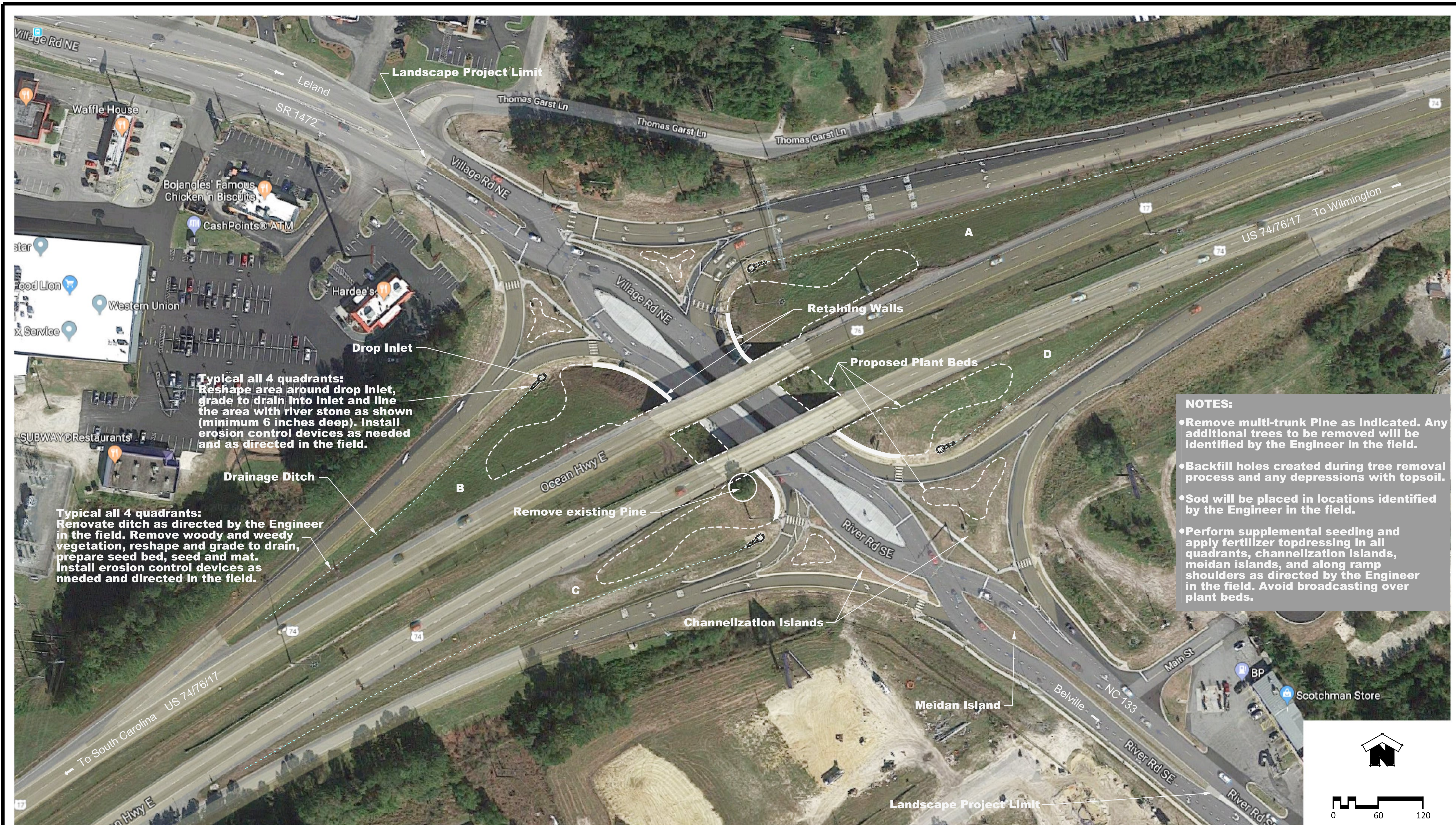
SHEET DESCRIPTION:

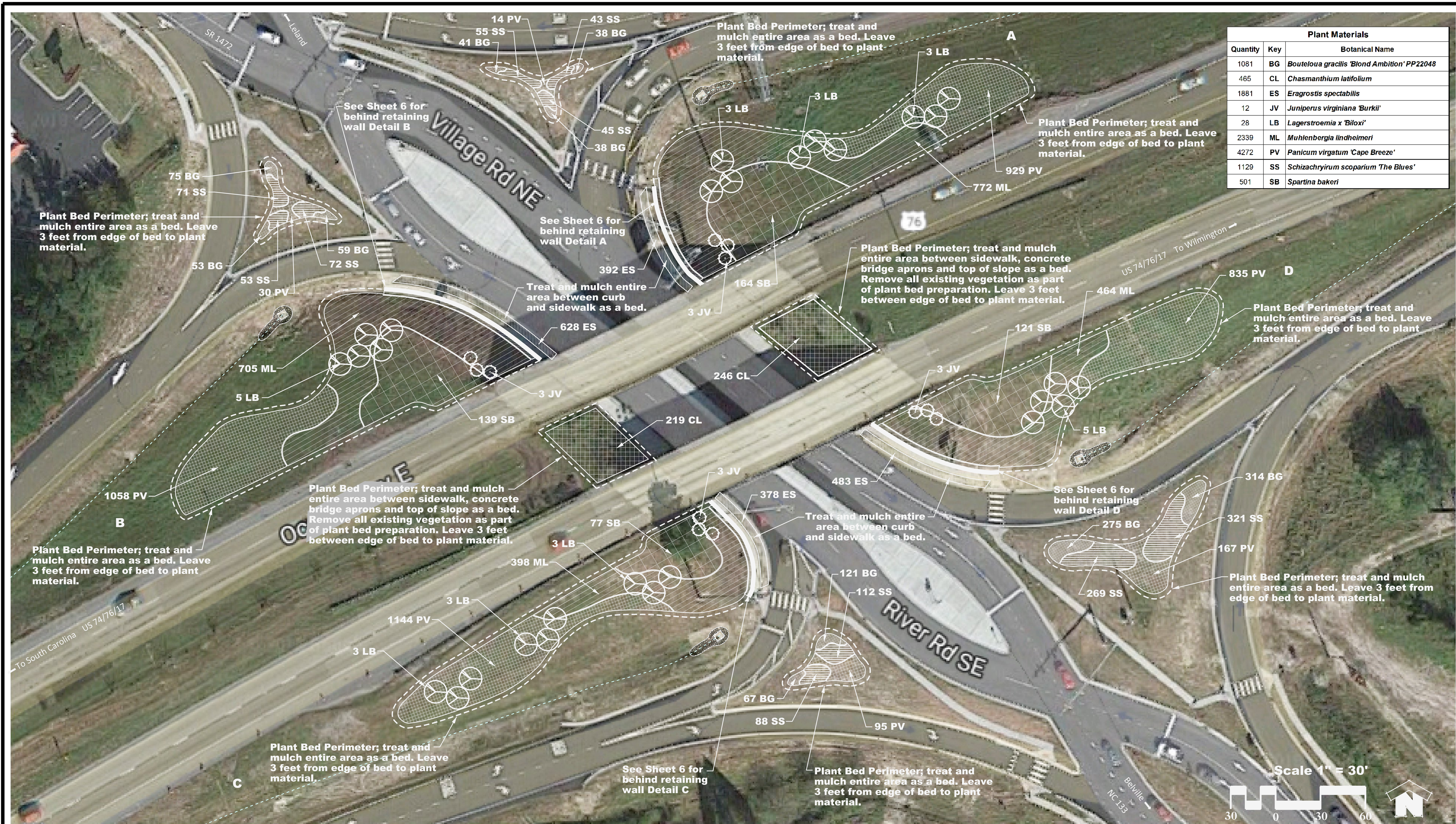
Landscape Development Plans

Drainage Details

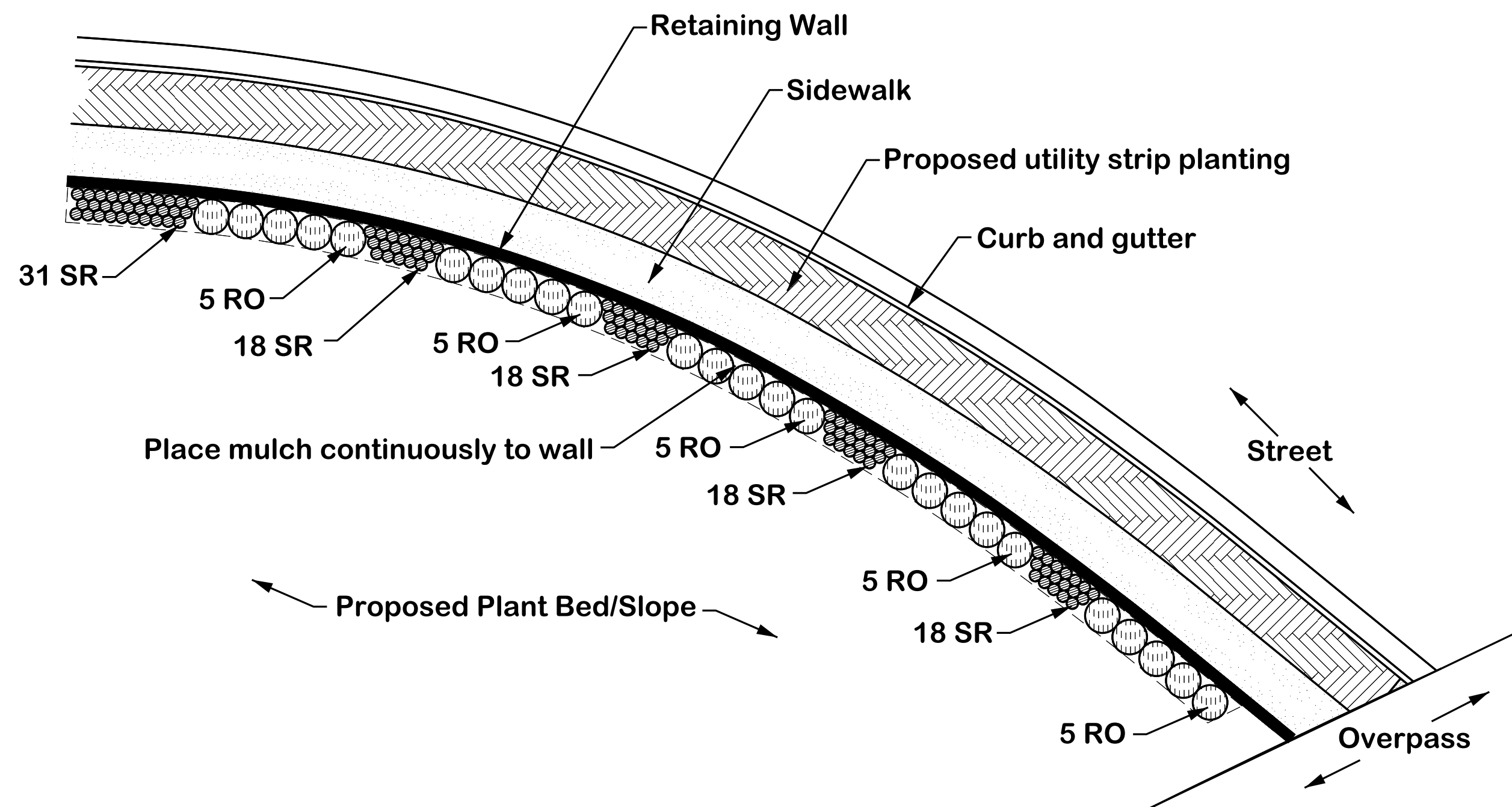
PROJECT:
US 74/17 & NC 133/SR 1472 Interchange
DIVISION AND COUNTY:
Division 3 - Brunswick
PRELIMINARY DESIGN DATE : August, 2017
FINAL DESIGN DATE : May 25, 2018
REVISION DATES : July 10, 2018

SHEET NUMBER
3
TOTAL SHEETS
6

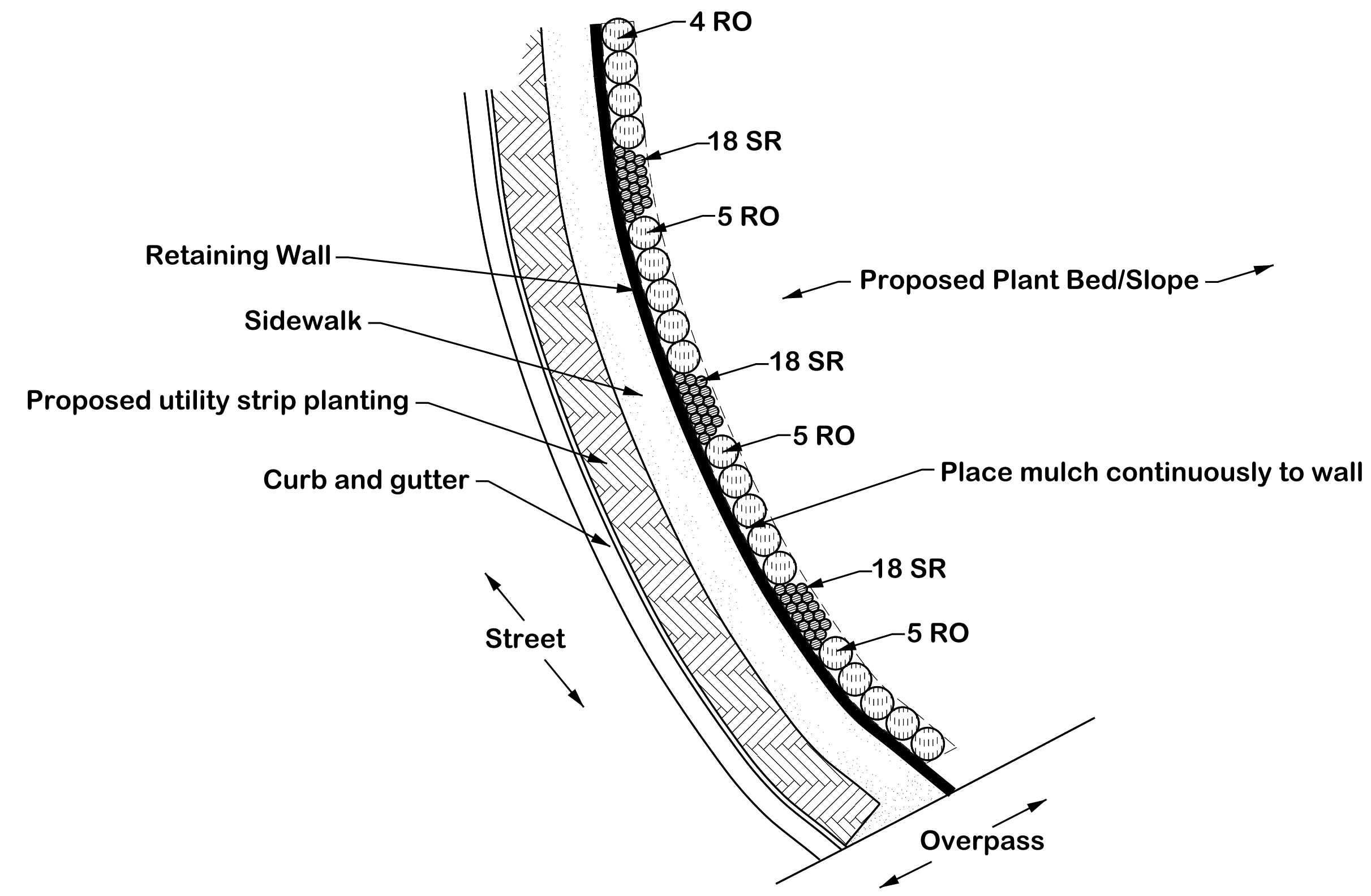




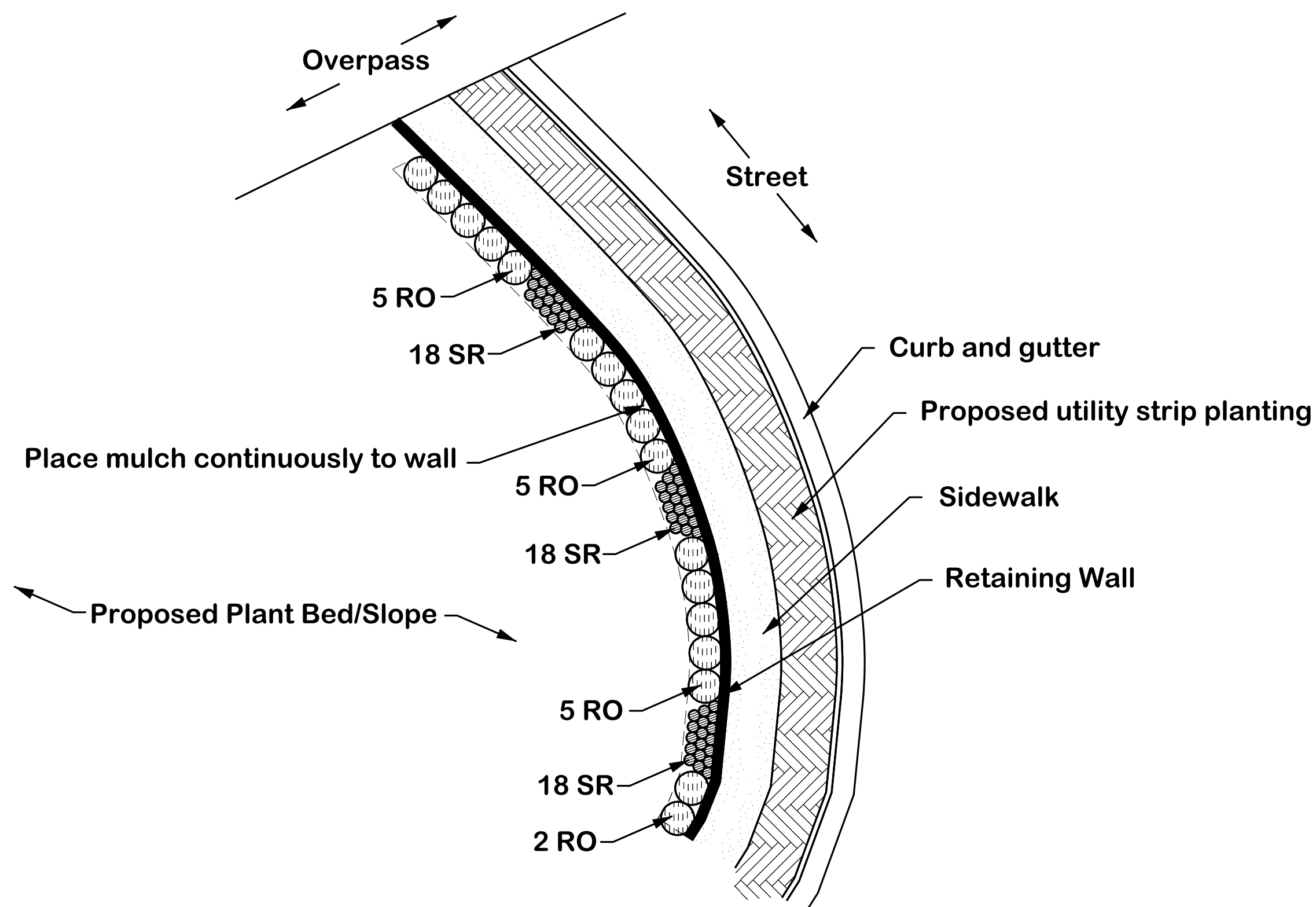
Plant Materials		
Quantity	Key	Botanical Name
1081	BG	<i>Bouteloua gracilis</i> 'Blond Ambition' PP22048
465	CL	<i>Chasmanthium latifolium</i>
1881	ES	<i>Eragrostis spectabilis</i>
12	JV	<i>Juniperus virginiana</i> 'Burkii'
28	LB	<i>Lagerstroemia</i> x 'Biloxi'
2339	ML	<i>Muhlenbergia lindheimeri</i>
4272	PV	<i>Panicum virgatum</i> 'Cape Breeze'
1129	SS	<i>Schizachyrium scoparium</i> 'The Blues'
501	SB	<i>Spartina bakeri</i>



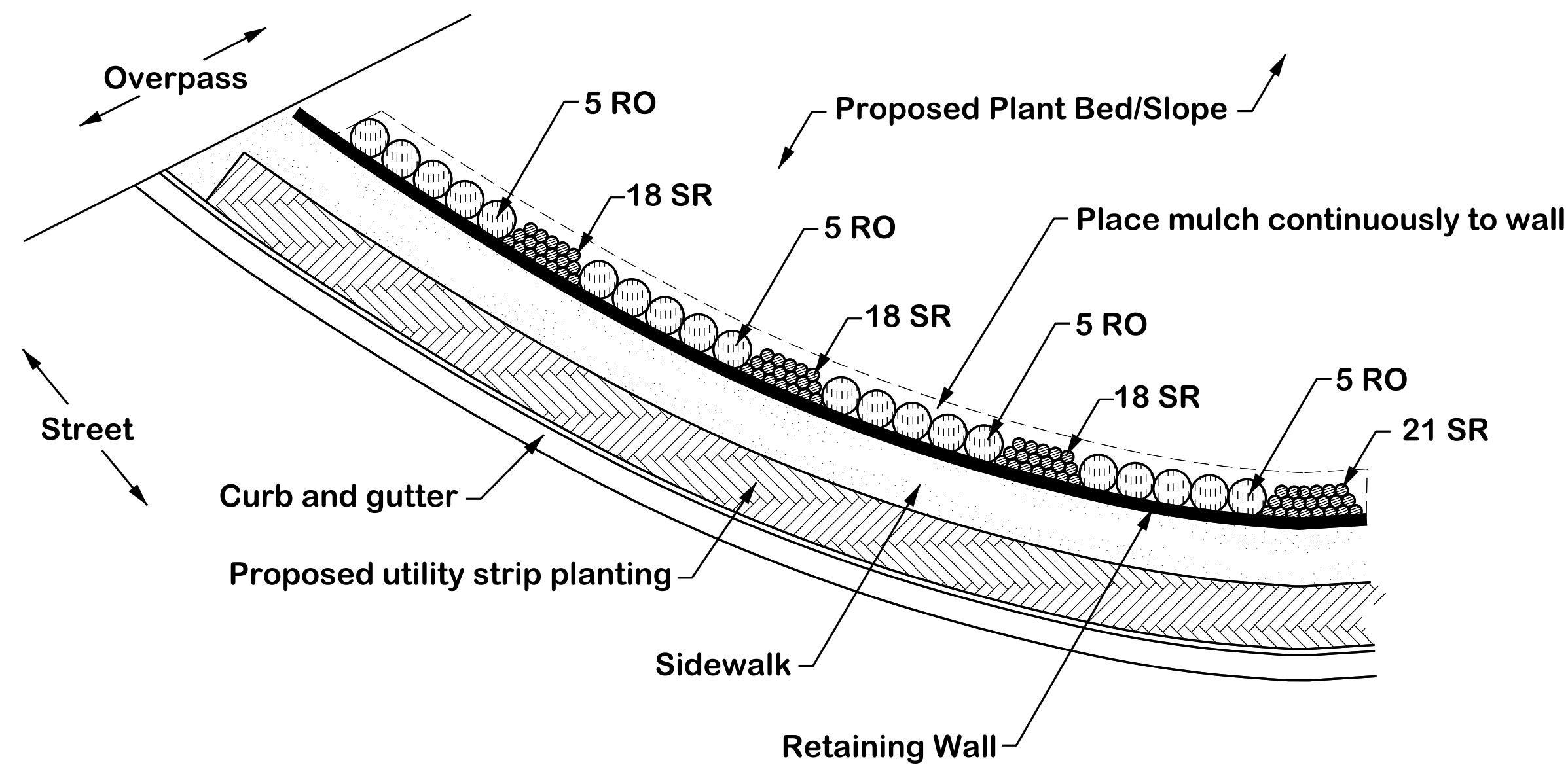
Detail Quadrant B (SW) - Retaining Wall Planting



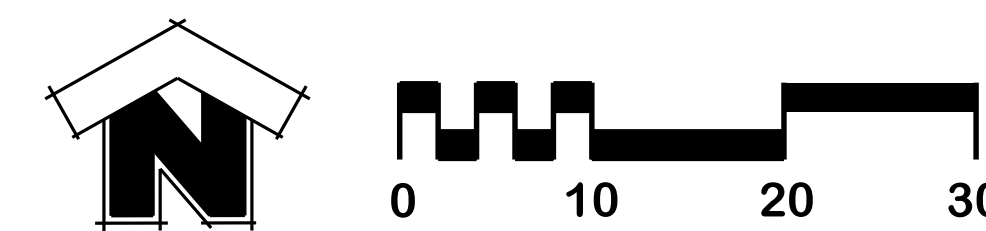
Detail Quadrant A (NW) - Retaining Wall Planting



Detail Quadrant C (SE) - Retaining Wall Planting



Detail Quadrant D (NE) - Retaining Wall Planting



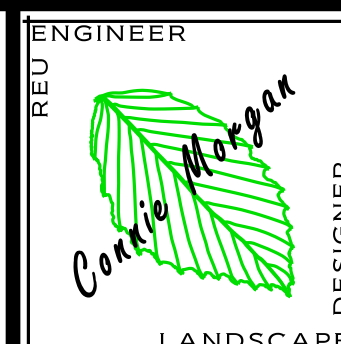
Plant List		
Quantity	Key	Botanical Name
81	RO	<i>Rosmarinus officinalis</i> 'Huntington Carpet'
286	SR	<i>Sedum rupestre</i> 'Angelina'



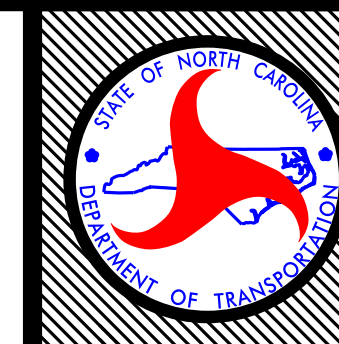
NCDOT - Roadside Environmental Unit
Aesthetic Engineering Section

1557 Mail Service Center Raleigh NC 27699-1557
Phone: 919-707-2920 Fax: 919-715-2554

http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/



Landscape Enhancement Project - R-3601
Brunswick County
US 74/17 Interchange with NC 133, River Road SE
and SR 1472, Village Road NE



SHEET DESCRIPTION:

Landscape Development Plans
Planting Plan
Retaining Wall Planting - Details

PROJECT:
US 74/17 & NC 133/SR 1472 Interchange
DIVISION AND COUNTY:
Division 3 - Brunswick
PRELIMINARY DESIGN DATE : August, 2017
FINAL DESIGN DATE : May 25, 2018
REVISION DATES : July 10, 2018

SHEET NUMBER
6
TOTAL SHEETS
6