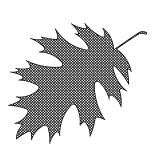
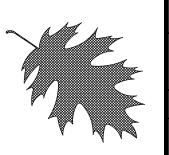
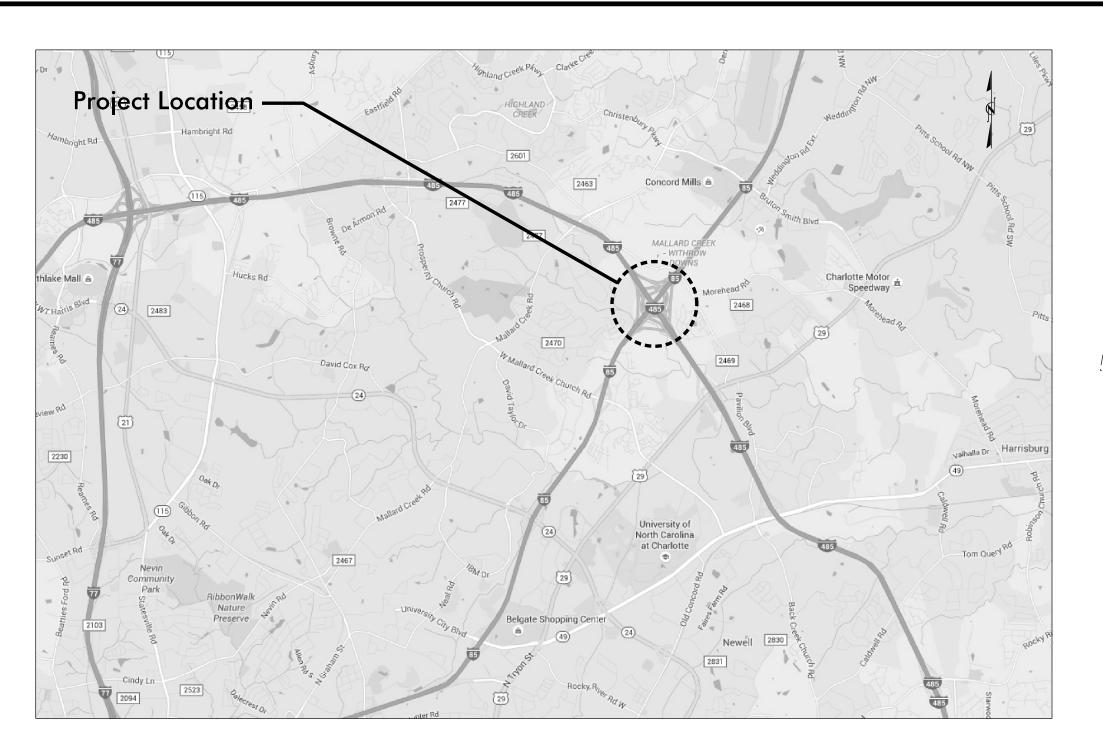
∞

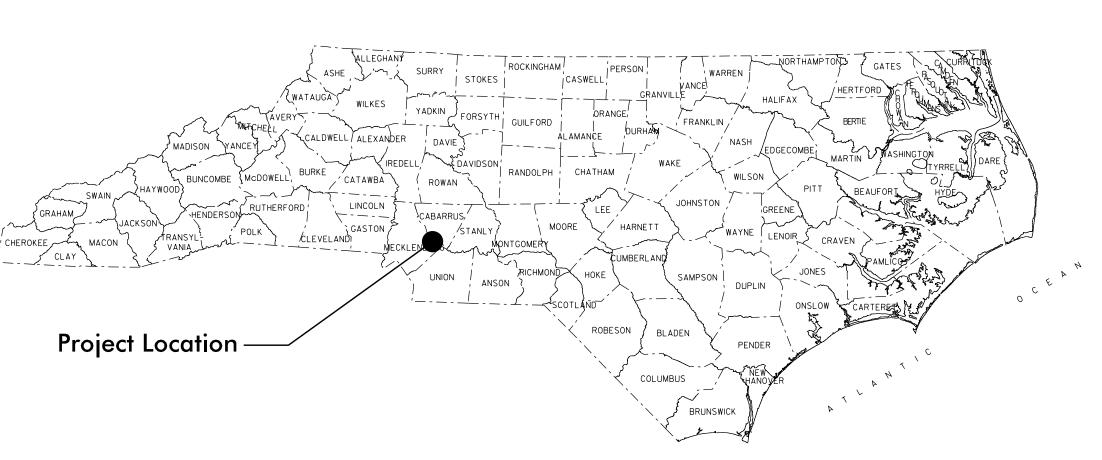


HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
R-2123CE		L1	6
FED. PROJ. #	DESCRIPTION		DIVISION
_	TIP		10





CONVENTIONAL SYMBOLS
County Line
City or Town Line
Exist. Right of Way Line Marker
Prop. Right of Way Line Marker
(By Others)
Prop Right of Way Line Marker
(By Contract)
Exist. Control of Access Line
Prop. Control of Access Line
Property Line
Easement Line
Slope Stake Line
Exist. Fence+
Prop. Woven Wire Fence
Prop. Chain Link Fence
Exist. Road = = = = = = = = = = = = = = = =
Prop. Road
Guardrail <u> </u>
Survey Line
Denotes Line Equality
Bridge ====================================
Culvert ===
Railroad
Woods
Exist. Telephone Pole
Prop. Telephone Pole
Tower Pole and Line
Exist. Power Pole
Prop. Power Pole
Sanitary Sewer Line
Water Line
Gas Line
Picnic Shelter
Regeneration
Reforestation XXXX
1(0101050401011
INDEX OF L SHEETS:

Summary of Quantities 1 year establishment

					Trees						
L	1670	4	еа	AB	Acer buergeranum	Trident Maple		2 1/2"	B&B	2.1	As shown
L	1670	15	еа	AO	Acer rubrum 'October Glory'	October Glory Red Maple		2 1/2"	B&B	2.1	As shown
L	1670	8	еа	BN	Betula nigra'BNMTF' Dura Heat®	Dura Heat® River Birch	12-14'		B&B	2.1	As shown
L	1670	21	еа	KP	Koelreuteria paniculata	Golden Rain Tree		1 3/4"	#25	2.2	40' O.C.
L	1670	92	еа	LM	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	8-9'		#25	2.5	3-5 Stem; 30' O.C.
L	1670	91	ea	LI	Lagerstroemia indica x fauriei 'Natchez'	Natchez Crape Myrtle	10-12'		#25	2.5	3-5 Stem; 30' O.C.
L	1670	35	еа	MG	Magnolia grandiflora 'Claudia Wannamaker'	Claudia Wannamaker Southern Magnolia	9-10'		B&B	2.2	As shown
L	1670	26	еа	ML	Magnolia grandiflora 'Little Gem'	Little Gem Magnolia	7-8'		B&B	2.2	As Shown
L	1670	41	ea	MS	Magnolia soulangeana 'Alexandrina'	Alexander Saucer Magnolia	7-8'		#25	2.4	40' O.C.
L	1670	40	ea	PC	Pistacia chinensis	Chinese Pistache		2 1/2"	B&B	2.1	45' O.C.
L	1670	14	ea	PK	Prunus cerasifera 'Krauter Vesuvius'	Krauter Vesuvius Purple Leaf Plum		1 3/4"	#25	2.3	40' O.C.
L	1670	25	ea	PO	Prunus x 'okame'	Okame Cherry		1 3/4"	B&B	2.3	60' O.C.
L	1670	29	ea	QR	Quercus rubra	Northern Red oak		2 1/2"	B&B	2.1	60' O.C.
L	1670	15	еа	QP	Quercus phellos	Willow Oak		2"	B&B	2.1	As Shown
L	1670	5	еа	QN	Quercus nuttallii	Nuttall Oak		2"	B&B	2.1	As Shown
L	1670	49	ea	TD	Taxodium distichum	Baldcypress		2"	B&B	4.7	As Shown
L	1670	38	еа	TG	Thuja plicata 'Green Giant'	Green Giant Western Arborvitae		10-12'	B&B	4.7	15' O.C.
					Reforestation Plants						
L	1670	7	pack	AP	Aesculus pavia	Red Buckeye	n/a	n/a	50 Bare Root/ pack	11.2	
L	1670	11	pack	AA	Amelanchier arborea	Serviceberry	n/a	n/a	50 Bare Root/ pack	11.2	
L	1670	14	pack	CC	Cercis canadensis	Eastern Red Bud	n/a	n/a	50 Bare Root/ pack	11.2	See Reforestation
L	1670	11	pack	CS	Cornus sp.	Dogwood Tree	n/a	n/a	50 Bare Root/ pack	11.2	Detail
L	1670	14	pack	JV	Juniperus virginiana	Eastern Red Cedar	n/a	n/a	50 Seedlings/ pack	11.2	
L	1670	7	pack	LS	Lagerstroemia sp.	Crape Myrtle	n/a	n/a	50 Bare Root/ pack	11.2	
L	1670	7	pack	RG	Rhus glabra	Smooth Sumac	n/a	n/a	50 Bare Root/ pack	11.2	
					Other						
L	1670	6.5	acre		Reforestation						
L	1670	315	cuyd		Mulch						Depth of 4"
L	1670	34	m/g		Water for Planting						
L	1670	1700	sqyd		Pre emergence Herbicidal Treatment						
L	1670	1700	sqyd		Post emergence Herbicidal Treatment						



L 1.0 - Title Sheet

L 2.0 - Planting Details

L 3.0 - Reforestation Details

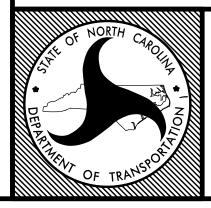
L 4.0 - Design Plan Quadrant 1 L 5.0 - Design Plan Quadrant 2

L 6.0 - Design Plan Quadrant 3

PREPARED BY: KC DATE: 06/2016

REVISIONS

DATE	DESCRIPTION



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION LOCATION: I-85 and I-485 Interchange

TYPE of WORK: T.I.P.

COUNTY: Mecklenburg County

2014 American Standard for Nursery Stock

2012 NCDOT STANDARD SPECIFICATIONS PREPARED IN THE OFFICE OF:

NCDOT- ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT SECTION 1557 MAIL SERVICE CENTER

RALEIGH NC 27699

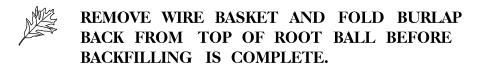
919-707-2920



SCHEDULE FOR PLANT HOLE SIZE: PLANT HOLE WIDTH (X) TO BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.

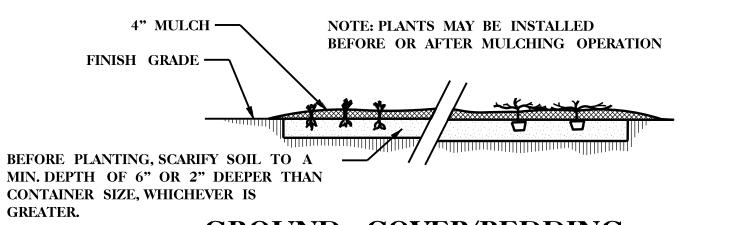


APPLY FERTILIZER AT PLANTING TIME IN THE FORM OF A SLOW RELEASE PELLET OR TABLET. APPLY AT RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION.

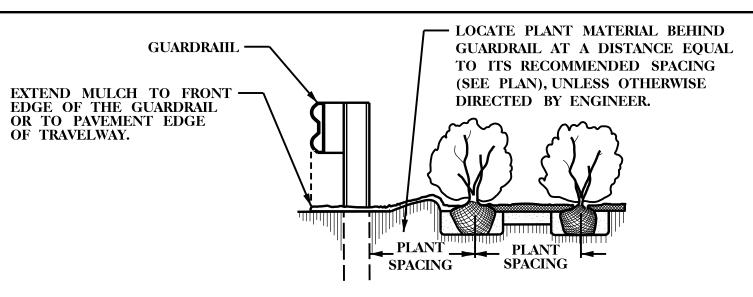


ALL PRUNING TO FOLLOW STANDARD ARBORICULTURAL PRACTICES AS SPECIFIED BY INTERNATIONAL SOCIETY OF ARBORICULTURE.

DO NOT ATTEMPT TO STRAIGHTEN A TREE THAT HAS BEEN PLANTED AT AN ANGLE WITH THE USE OF STAKING OR GUYING. DIG TREE AND REPLANT TO UPRIGHT POSITION.



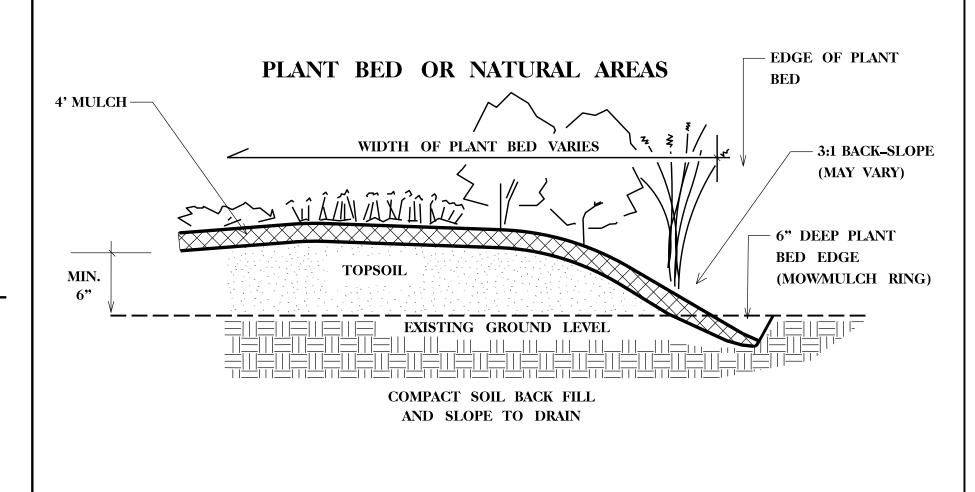
GROUND COVER/BEDDING PLANT DETAIL



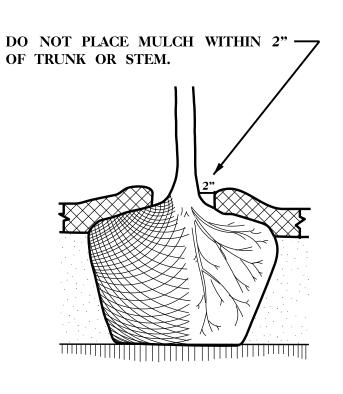
GUARDRAIL MULCHING DETAIL USE AS DIRECTED BY FIELD ENGINEER

INSTALL SHRUB SO THAT 1/8 OF ROOT BALL IS ABOVE FINISH GRADE. MULCH - SEE DETAIL -WATER RETENTION RING FINISH GRADE -COMPACT BACKFILL PLANT HOLE WIDTH (X) TO SCARIFY BED TO A MINIMUM DEPTH OF 6". BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.

SHRUB BED PLANTING DETAIL



PLANT BED EDGE DETAIL



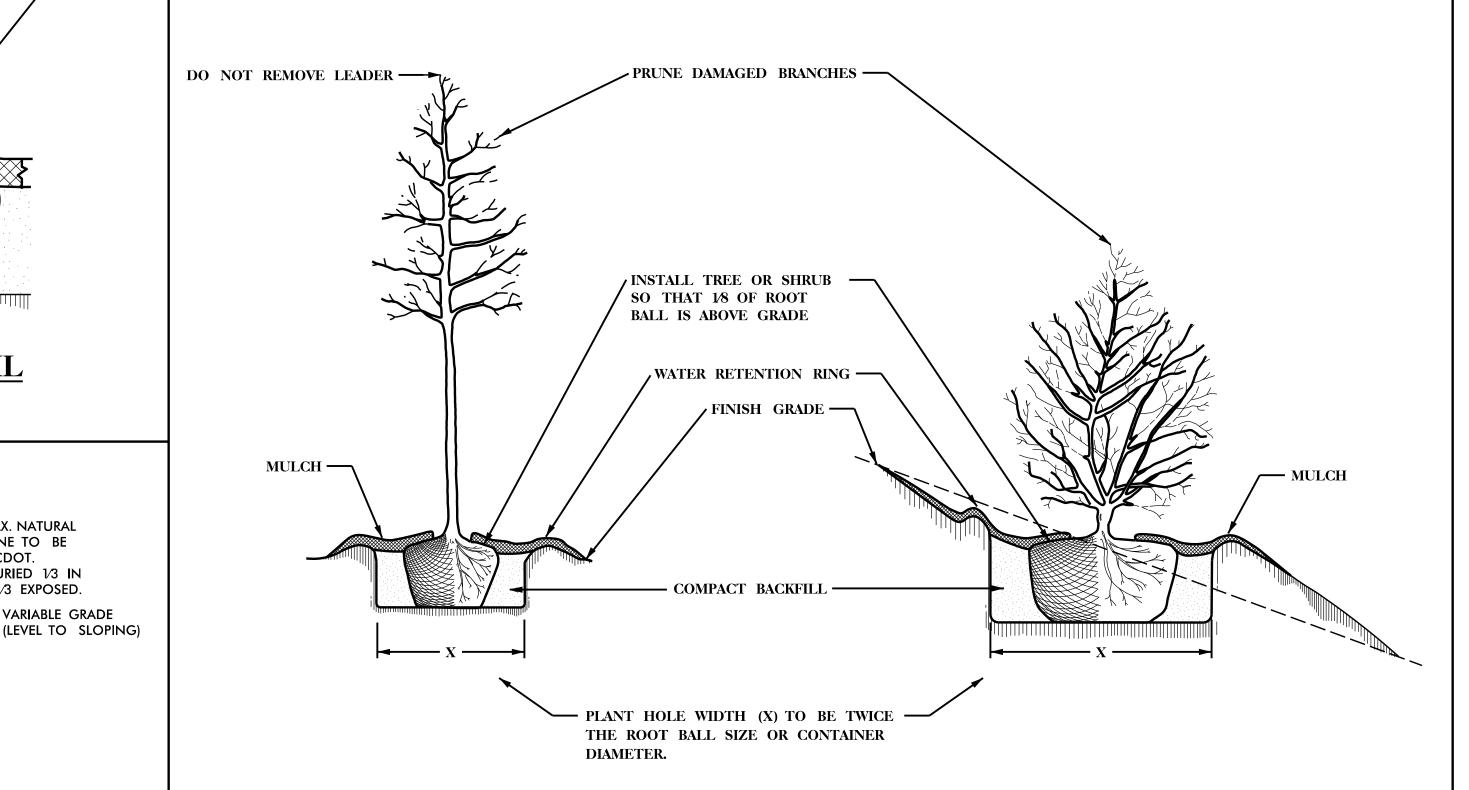
MULCH DETAIL

' MIN. TO 8' MAX. NATURAL WEATHERED STONE TO BE

STONE TO BE BURIED 1/3 IN

GROUND AND 2/3 EXPOSED.

- VARIABLE GRADE

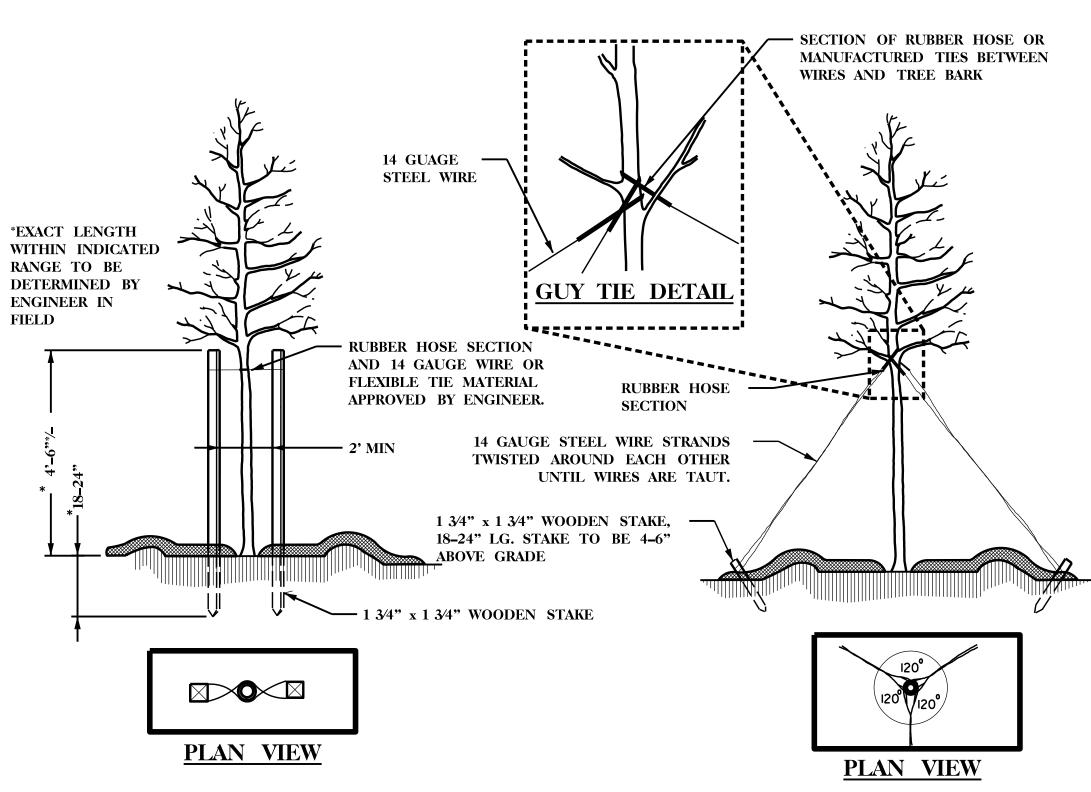


BOULDER PLACEMENT DETAIL **TYPICAL**

SCALE: NTS

TREE OR SHRUB PLANTING DETAIL (LEVEL GROUND)

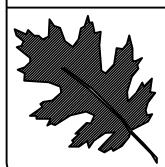
TREE OR SHRUB PLANTING DETAIL (SLOPING GROUND)



STAKING DETAIL

(TREES 6'-10') USE AS DIRECTED BY FIELD ENGINEER

GUYING DETAIL (TREES 10' OR LARGER) USE AS DIRECTED BY FIELD ENGINEER



NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557 PH: 919-707-2935 FAX: 919-715-2554

HTTP://WWW.NCDOT.ORG/DOH/OPERATIONS/DP CHIEF ENG/ROADSIDE/

I-85 & I-485 Interchange MECKLENBURG COUNTY TIP #: R-2123CE



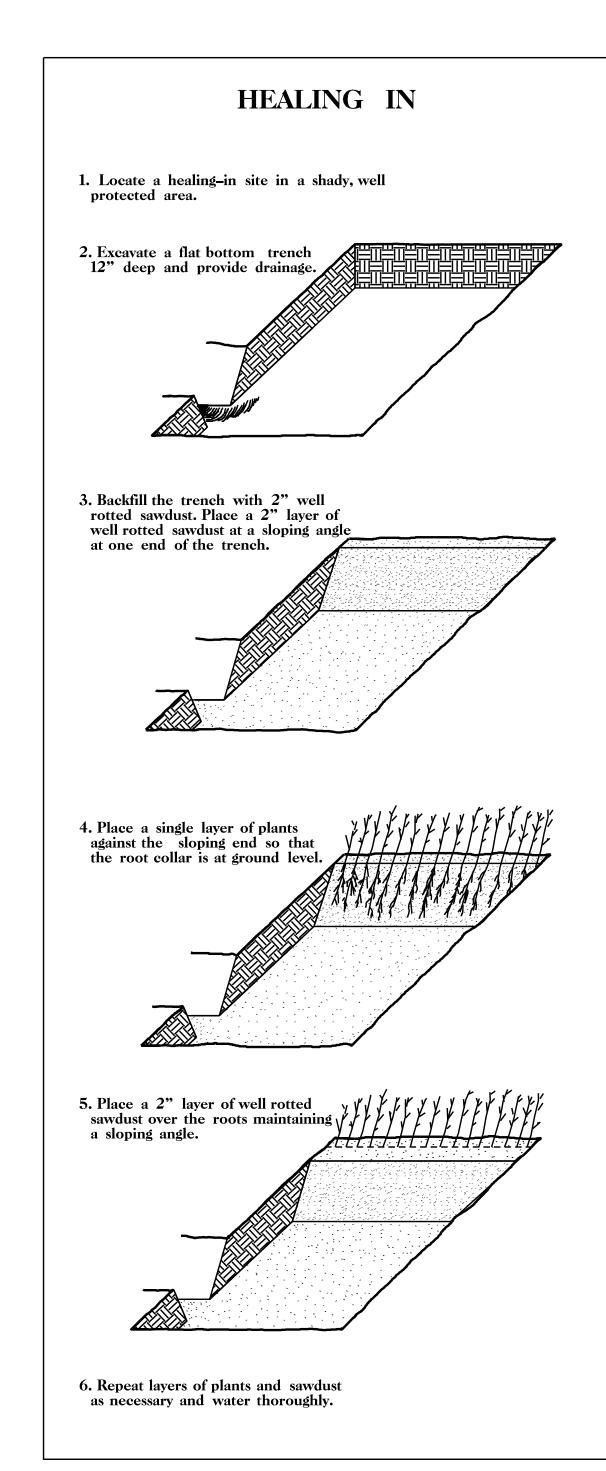
	TION:	PREL. DESIGN DATE :	March 2016	Planting Details
	DESCRIF	CHECKED BY & DATE :		
SHEET	HEET	FINAL DESIGN DATE :	June 10, 2016	

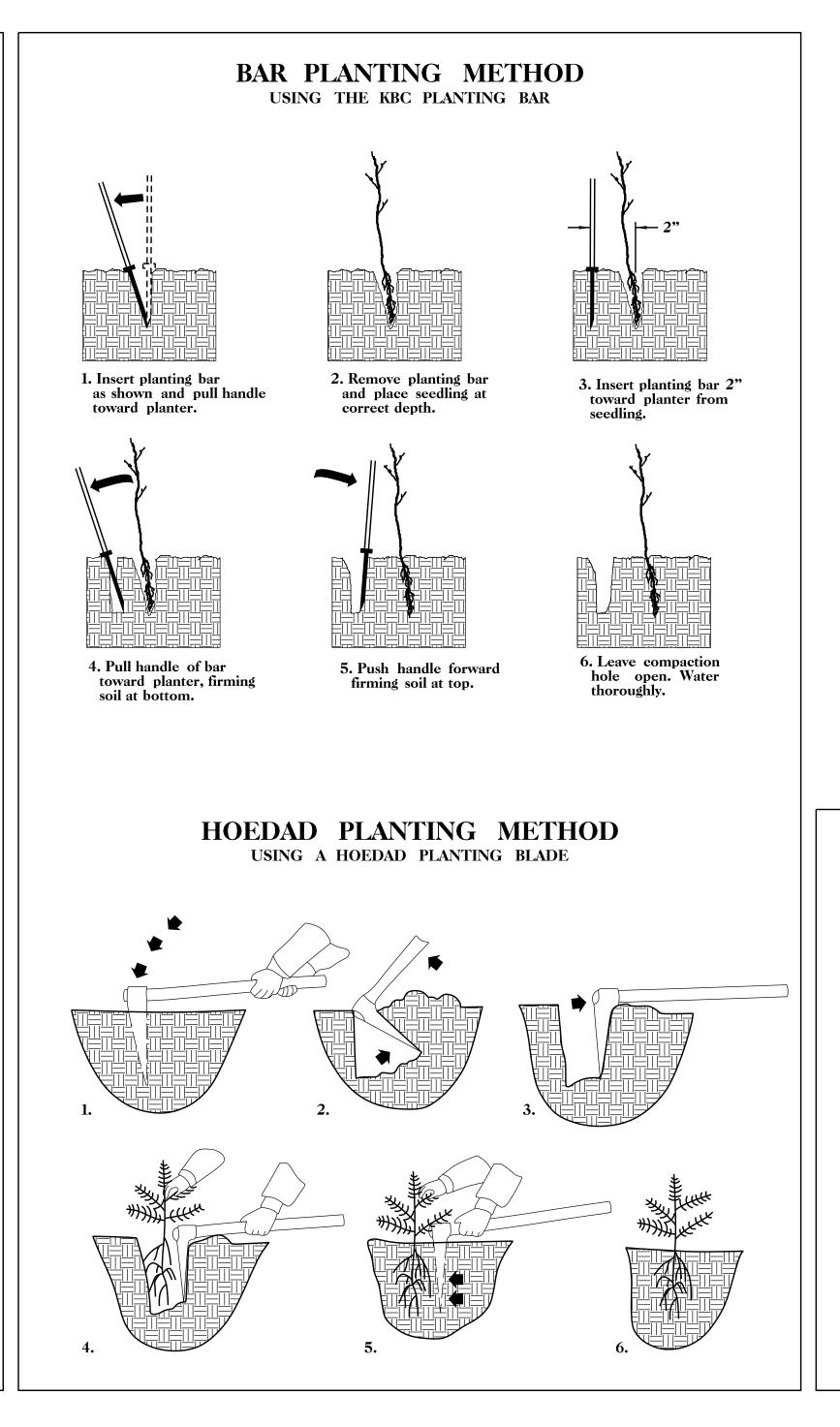


TOTAL SHEET NO:

REFORESTATION DETAILS

SEEDLING / LINER BAREROOT PLANTING DETAIL

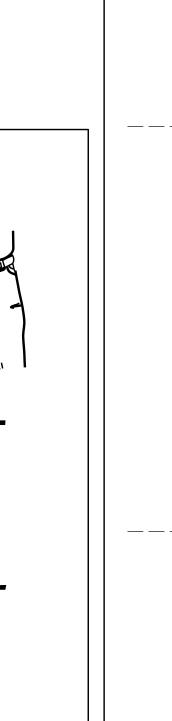


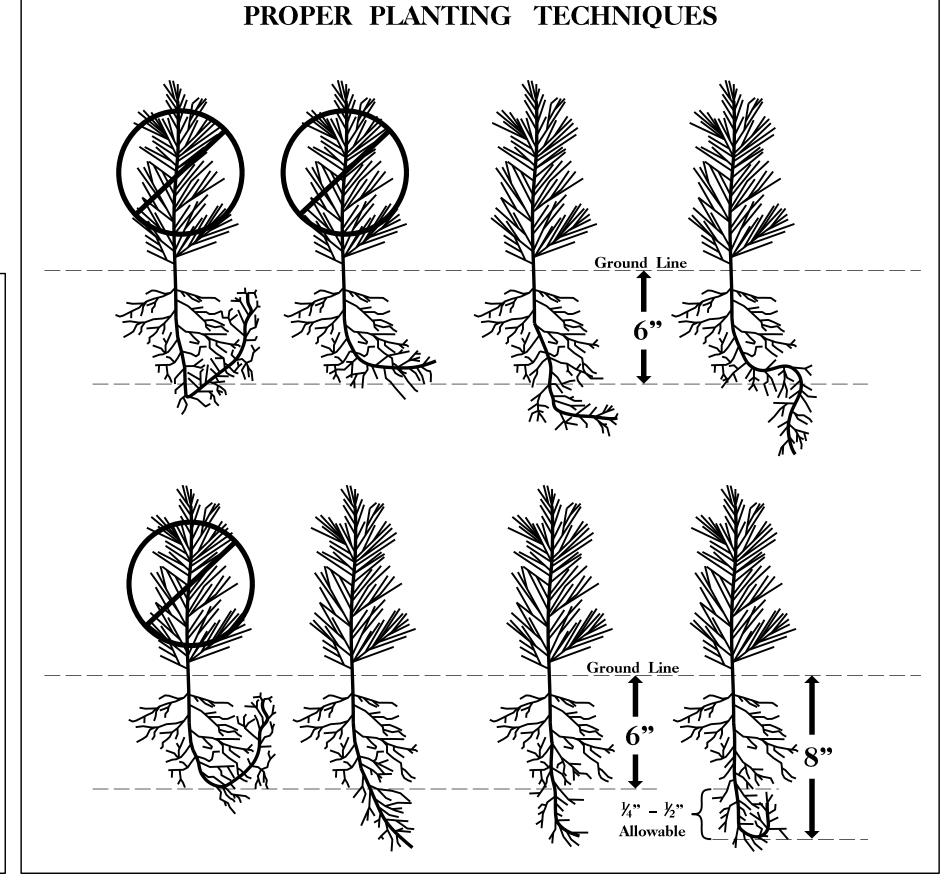


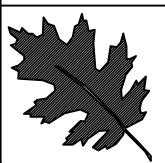
REFORESTATION SCHEDULE

EXACT AREAS TO BE REFORESTED WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. QUANTITIES GIVEN ARE ESTIMATES ONLY, ADJUST ACCORDING TO FIELD CONDITIONS.

REFORESTATION - APPROXIMATELY 6.5 ACRES				
MIXTURE, TYPE, SIZE, AND FURNISH SHALL CONFORM TO THE FOLLOWING:				
Percent Botanical Name	Common Name	Furnish	A.S.N.S	
10% Aesculus pavia	Red Buckeye	18 - 24" Seedling	11.2	
15% * Amelanchier arborea	Serviceberry	18 - 24" Seedling	11.2	
20% * Cercis canadensis	Eastern Red Bud	18 - 24" Seedling	11.2	
15% * Cornus sp.	Dogwood Tree	18 - 24" Seedling	11.2	
20% Juniperus virginiana	Eastern Red Cedar	18 - 24" Seedling	11.2	
10% Lagerstroemia sp.	Crape Myrtle	18 - 24" Seedling	11.2	
10% Rhus glabra	Smooth Sumac	18 - 24" Seedling	11.2	
Plant 8' to 10' on center, averaging 9' on center. Space randomly. Approximately 544 plants per acre. Species with an * will be planted closer to the road edge of the reforested area.				







NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557 PH: 919-707-2935 FAX: 919-715-2554

HTTP://WWW.NCDOT.ORG/DOH/OPERATIONS/DP CHIEF ENG/ROADSIDE/

I-85 & I-485 INTERCHANGE MECKLENBURG COUNTY TIP #: R-2123CE



pruned, if necessary, so that no roots extend more than 10 inches (10") below the

PLANTING NOTES

During planting, seedlings

·	TION:	PREL. DESIGN DATE :	March 2016	Reforestation Details
	DESCRIE	CHECKED BY & DATE :		
	SHEET	FINAL DESIGN DATE :	June 10, 2016	

