

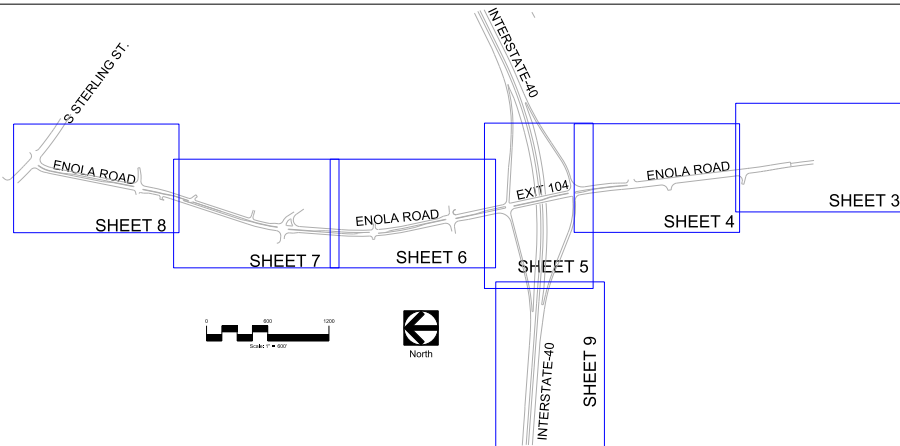


PROPOSED HIGHWAY LANDSCAPE DEVELOPMENT PROJECT

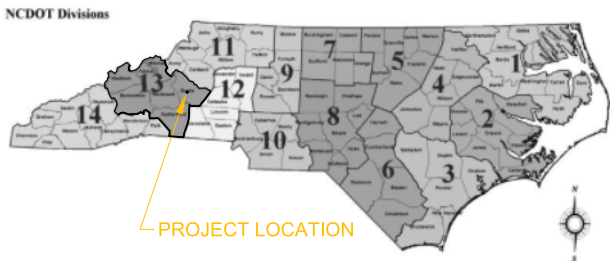


T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
U-2551 FED. PROJ. #	34832.1.1	1	9
DESCRIPTION		DIVISION	
ENOLA RD. FROM STERLING STREET TO SAWYER COURT		13	

SHEET LEGEND



LOCATION



CONVENTIONAL SYMBOLS

- DIRECTION OF TRAFFIC
- EXISTING RIGHT-OF-WAY
- EXISTING FENCE
- EXISTING GUARDRAIL
- PROJECT LIMITS
- CREEK / WATER CENTERLINE
- STREAM / RIVER BANK
- EXISTING OVERHEAD UTILITIES
- NEW PLANT BED LIMITS
- SHRUB MASSING
- EXISTING BRIDGE
- EXISTING EDGE OF PAVEMENT

QUANTITIES SUMMARY

Trees

CODE	Count	BOTANICAL_NAME	COMMON_NAME	CALIPER	HEIGHT	SPREAD	SPACING	COMMENTS
CAN	11	Tsuga canadensis	Canadian Hemlock	—	12-14'	6-7'	—	BB, Specimen, Full to Ground, 10'Ø Mulch Ring
CHY	10	Prunus x yedoensis	Yoshino Cherry	1.5-2"	8-10'	—	12-15'	BB, Specimen, 8'Ø Mulch Ring
CM	24	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	1-1.5" Each	10-12'	—	As Noted	BB, Specimen, 8'Ø Mulch Ring
DC	2	Cedris deodara	Deodar Cedar	—	12-14'	6-7'	—	10'Ø Mulch Ring
ERC	3	Juniperus virginiana	Eastern Red Cedar	2.5-3'	7-8'	3-4'	—	BB, Full to ground, Specimen, 8'Ø Mulch Ring
FPR	10	Cercis canadensis 'Forest Pansy'	'Forest Pansy' Redbud	2" Min.	8-10'	—	—	BB, Specimen, Pink Flowers, 8'Ø Mulch Ring
HOG	6	Cercis canadensis 'Hearts of Gold'	'Hearts Of Gold' Redbud	1.5-2"	8-10'	—	12-15'	BB, Specimen, Lavender Flowers, 8'Ø Mulch Ring
MAG	11	Mag. grandiflora 'Claudia Wannamaker'	'Claudia Wannamaker' Magnolia	—	10-12'	5-6'	—	BB, Specimen, Full to Ground, 10'Ø Mulch Ring
NO	8	Quercus nuttallii	Nuttall Oak	2.5-3"	12-14'	—	—	BB, Specimen, 10'Ø Mulch Ring
NSH	40	Ilex x Nellie R. Stevens	Nellie Stevens Holly	—	7-8'	4-5'	10' o.c.	BB, Full to ground, Specimen, 10'Ø Mulch Ring
POP	5	Liriodendron Tulipifera	Tulip Poplar	2.5-3"	12-14'	—	—	BB, Specimen, 10'Ø Mulch Ring
RSM	8	Acer rubrum 'Red Sunset'	'Red Sunset' Maple	2.5-3"	12-14'	—	—	BB, Specimen, 10'Ø Mulch Ring
SHU	12	Quercus shumardii	Shumard Oak	2.5-3"	12-14'	—	—	BB, Specimen, 10'Ø Mulch Ring
VEN	8	Cornus kousa x C. nutallii Venus	Venus Dogwood	1.5-2"	8-10'	—	12-15'	BB, White Flwrs, 8'Ø Mulch Ring
WO	1	Quercus phellos	Willow Oak	2.5-3"	12-14'	—	—	BB, Speicmen, 10'Ø Mulch Ring
ZEL	15	Zelkova serrata 'Green Vase'	'Green Vase' Japanese Zelkova	2.5-3"	12-14'	—	—	BB, Speicmen, 10'Ø Mulch Ring

Code	Count	Botanical Name	Common Name	HGT.	Spread	Spacing	Native
CAR	160	Ilex cornuta 'Carissa'	Carissa Holly	18' Min.	18-24", #3 Cont.	4' O.C.	N
LBS	580	Schizachyrum scoparium	Little Bluestem	Full	Full, 2" Tray Min.	24"	Y
NWS	44	Panicum virgatum 'Northwind'	Northwind Switch Grass	15-18"	12-15", #3 Cont.	5' O.C.	Y
RBL	229	Loropetalum chinense v. rubrum 'Ruby'	Ruby Loropetalum	18-24"	12-18"	5' O.C.	N

OTHER ITEMS

Note	Quantity	Description
Mulch	462 CY	Project Total Mulch (4" depth)
Seeding and Mulching	15.5 ACR	
Water for Planting	105.5 M/G	
Zoysia Sod	1806 SY	
Fertilizer Top Dressing	1.2 Ton	
Pre-Emergent Herbicide	3,555 SY	
Post-Emergent Herbicide	3,555 SY	
Establishment Work	12 Months	

NOTES

A. SUPPLEMENTAL SEEDING AND TOP-DRESSING: MOWED TURF AREAS LOCATED TO THE INSIDE OF THE RAMPS, AND BETWEEN THE EDGES OF PAVEMENT, THE NATURAL AREAS, AND/OR PLANT BEDS SHALL RECEIVE TOP-DRESSING AND SUPPLEMENTAL SEEDING. INTERIOR OF MEDIANS NOT LABELED AS PLANT BEDS TO BE RECEIVE TOP-DRESSING AND SUPPLEMENTAL SEEDING WITH LOW MAINTENANCE SEED. LAWN AREAS BETWEEN BACK OF CURB AND SIDEWALK ALONG ENOLA ROAD TO RECEIVE TOP-DRESSING AND SUPPLEMENTAL SEEDING. CONTINUE UNTIL HEALTHY GRASS STRAND IS ESTABLISHED.

NOTE: ALL REVISIONS OR CHANGES TO BE APPROVED BY DIVISION ROADSIDE ENVIRONMENTAL ENGINEER.

B. PROPOSED NEW PLANT BEDS AND RENOVATED PLANT BEDS: PLANT BEDS ARE INDICATED AND LABELED ON THE PLANS. STAKE PLANT BED PERIMETERS FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING OF WORK. INSTALL EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER IN THE FIELD IF NEEDED. EXISTING PLANTS TO BE RETAINED, IF ANY, WILL BE IDENTIFIED ON THE PLANS OR BY THE ENGINEER IN THE FIELD. APPLY POST-EMERGENCE HERBICIDE AND REPEAT AS NECESSARY TO ACHIEVE TOTAL KILL OF UNDESIRABLE VEGETATION. TAKE CARE NOT TO DAMAGE EXISTING VEGETATION TO BE RETAINED. REMOVE DEAD VEGETATIVE LAYER, TILL, AND RAKE TO SMOOTH AND LEVEL PLANT BED. IF TILLING IN THE VICINITY OF EXISTING TREES TO BE RETAINED DO NOT ENCROACH INTO AREA BENEATH DRIPLINE. TO PREVENT PROBLEMS FROM SHREDDING OF ROOTS, SMOOTHLY CUT ANY ROOTS ONE INCH OR GREATER THAT EXTEND BEYOND THE DRIPLINE INTO TILLED AREA. PLANT AS SHOWN ON PLANS.

NOTE: DIVISION ROADSIDE ENVIRONMENTAL ENGINEER TO APPROVE PLANT BED LAYOUT PRIOR TO INSTALL.

NEW PLANTING AREAS: MULCH ENTIRE PLANT BED.
NEW TREE PLANTINGS: MULCH TREE RING, SIZE NOTED ON PLANT LIST

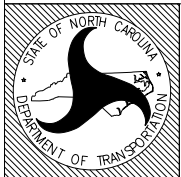
C. MEDIAN PLANTINGS: MEDIAN PLANT BEDS ARE INDICATED AND LABELED ON THE PLANS. APPLY POST-EMERGENCE HERBICIDE AND REPEAT AS NECESSARY TO ACHIEVE TOTAL KILL OF UNDESIRABLE VEGETATION. TAKE CARE NOT TO DAMAGE ADJACENT EXISTING LAWN AREAS TO BE RETAINED. REMOVE DEAD VEGETATIVE LAYER, TILL, AND RAKE TO SMOOTH AND LEVEL PLANT BED. PLANT NEW PLANTINGS FROM ENDS OF MEDIAN WORKING TOWARD THE MIDDLE OF MEDIAN. MULCH ENTIRE PLANT BED POST PLANT INSTILLATION.

D. NOT IN USE

INDEX OF SHEETS

- 1 TITLE, DESCRIPTION, NOTES AND SUMMARY OF QUANTITIES
- 2 PLANTING DETAILS
- 3-9 LANDSCAPE PLANS

NOTABLE PAGES:
5 INTERSTATE 40 INTERCHANGE #104



STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

LOCATION: NCDOT Roadway Enhancement
at Enola Road and Interstate 40 Interchange Exit 104

TYPE OF WORK: LANDSCAPE DEVELOPMENT

COUNTY: BURKE

DIVISION ADDRESS: 13
55 Orange Street,
Asheville, NC 28801

DIV. ENG: J.J. Swain, Jr., PE

DIV. ROADSIDE ENGINEER: Keith Blazer

PREPARED BY: KMB, TAG

PRELIMINARY DESIGN DATE: September 1, 2015

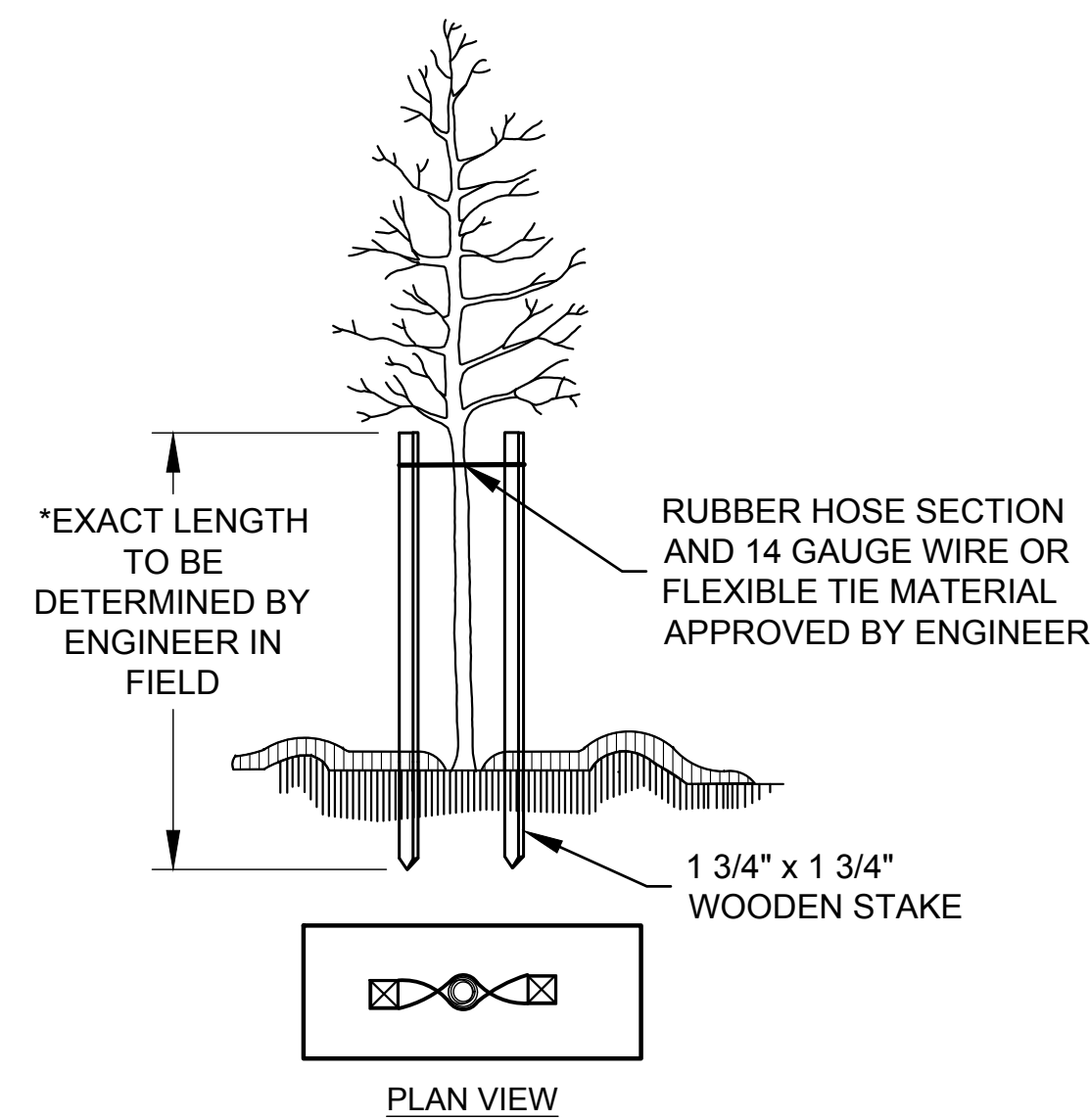
FINAL DESIGN DATE: March 14, 2016

REVISION DATE: -

2012 NCDOT STANDARD SPECIFICATIONS

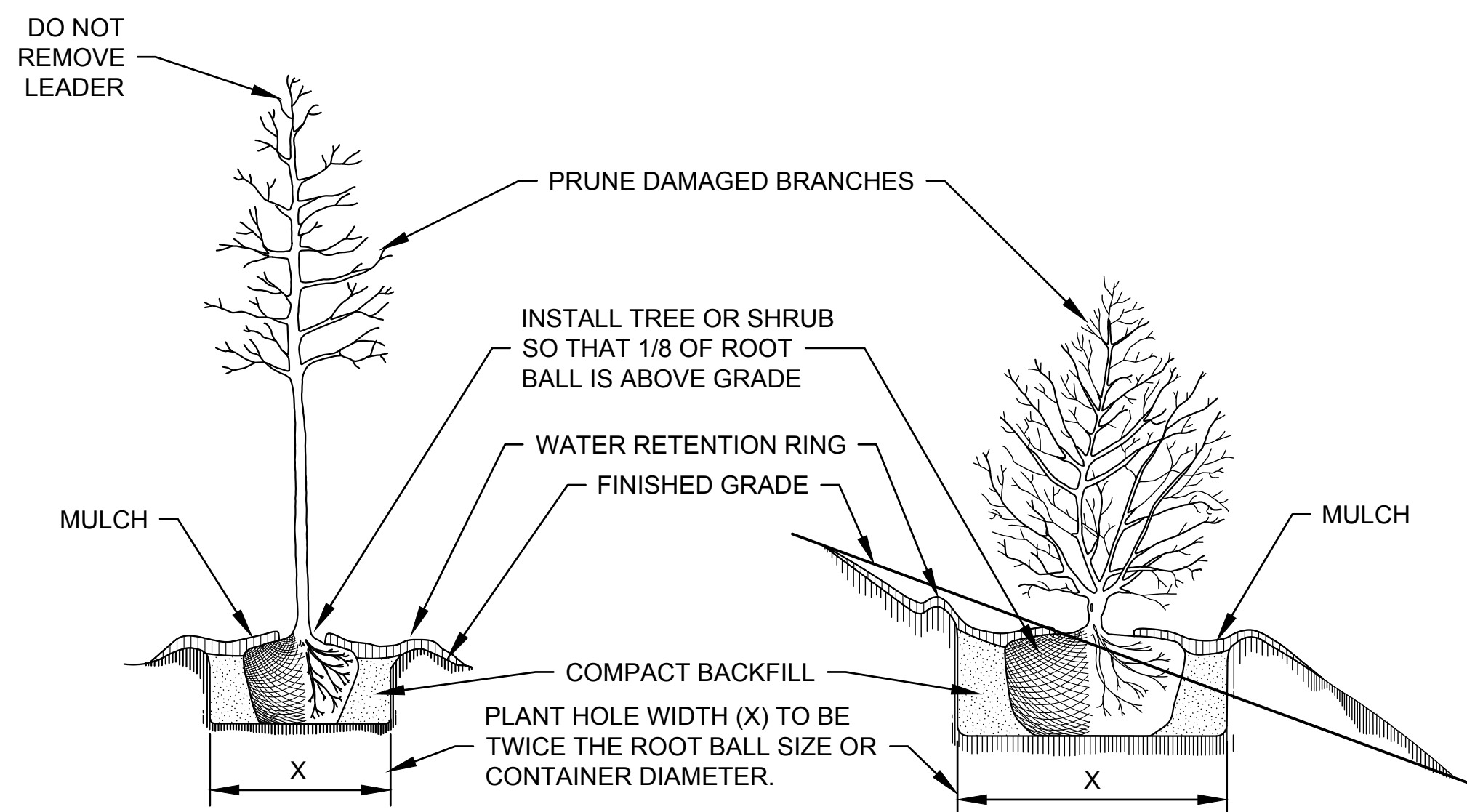
PREPARED IN THE OFFICE OF:
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WINSTON-SALEM, NC 27101
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LANDSCAPE ARCHITECTURE CIVIL ENGINEERING LAND PLANNING

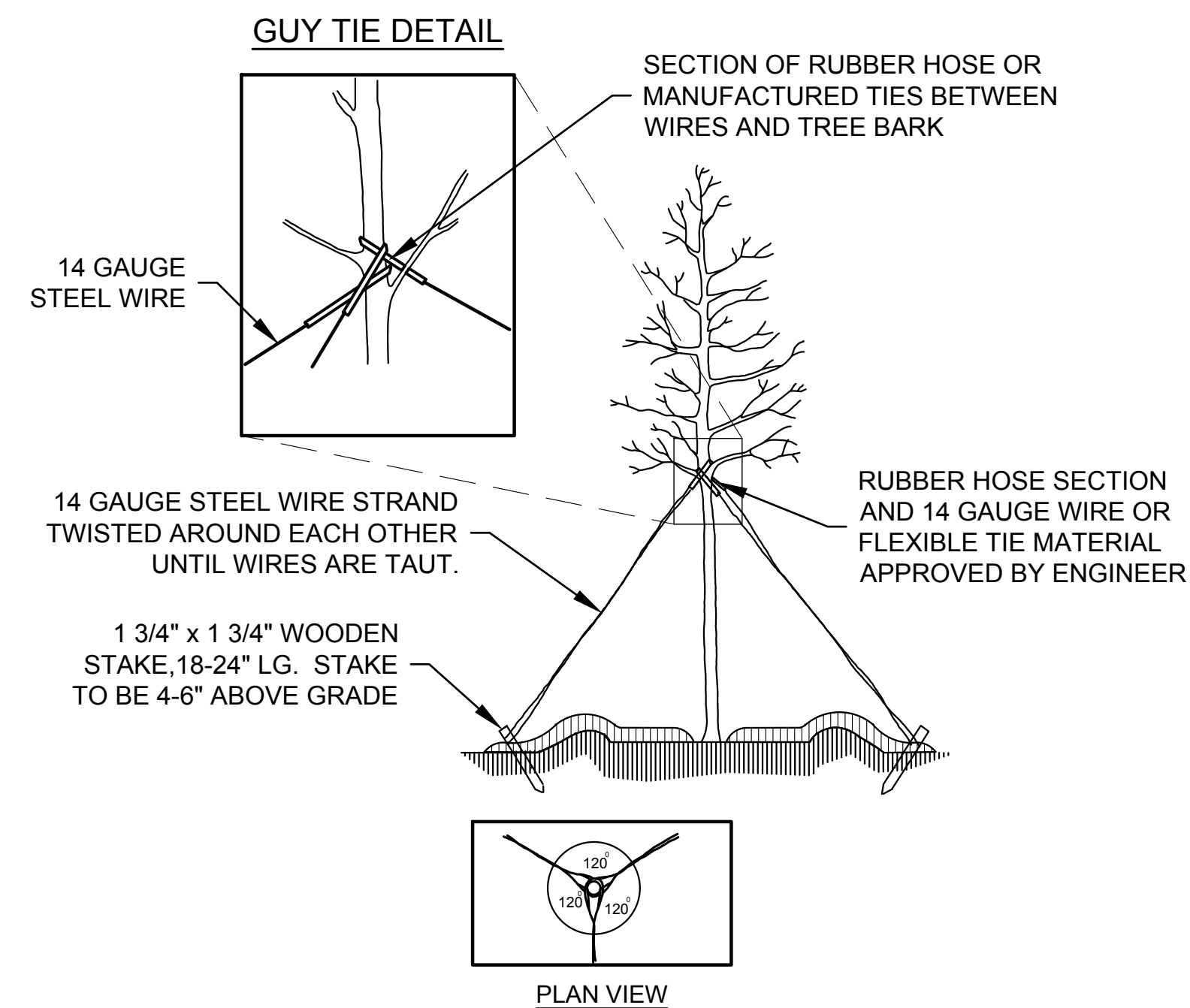


STAKING DETAIL
(TREES 6'-10')

USE AS DIRECTED BY FIELD ENGINEER

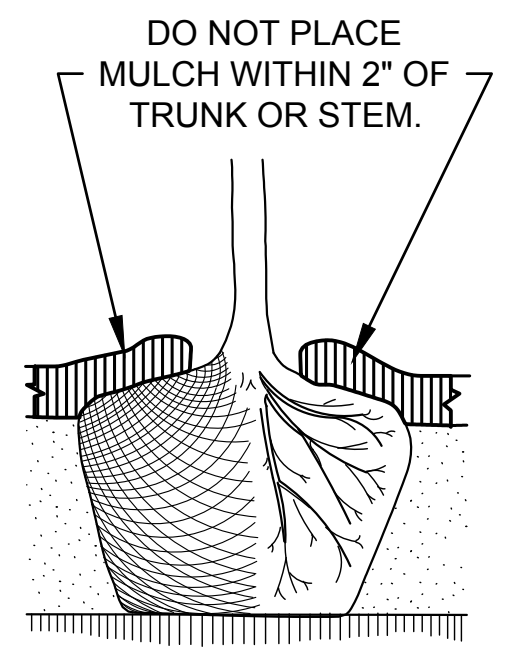


TREE OR SHRUB PLANTING DETAIL
(LEVEL GROUND) **TREE OR SHRUB PLANTING DETAIL**
(SLOPING GROUND)

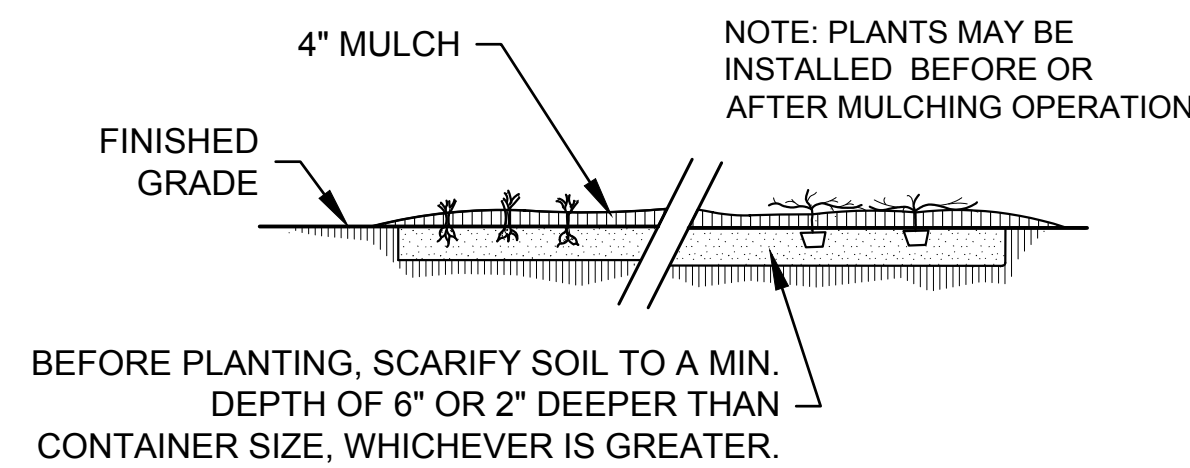


GUYING DETAIL
(TREES 10' OR LARGER)

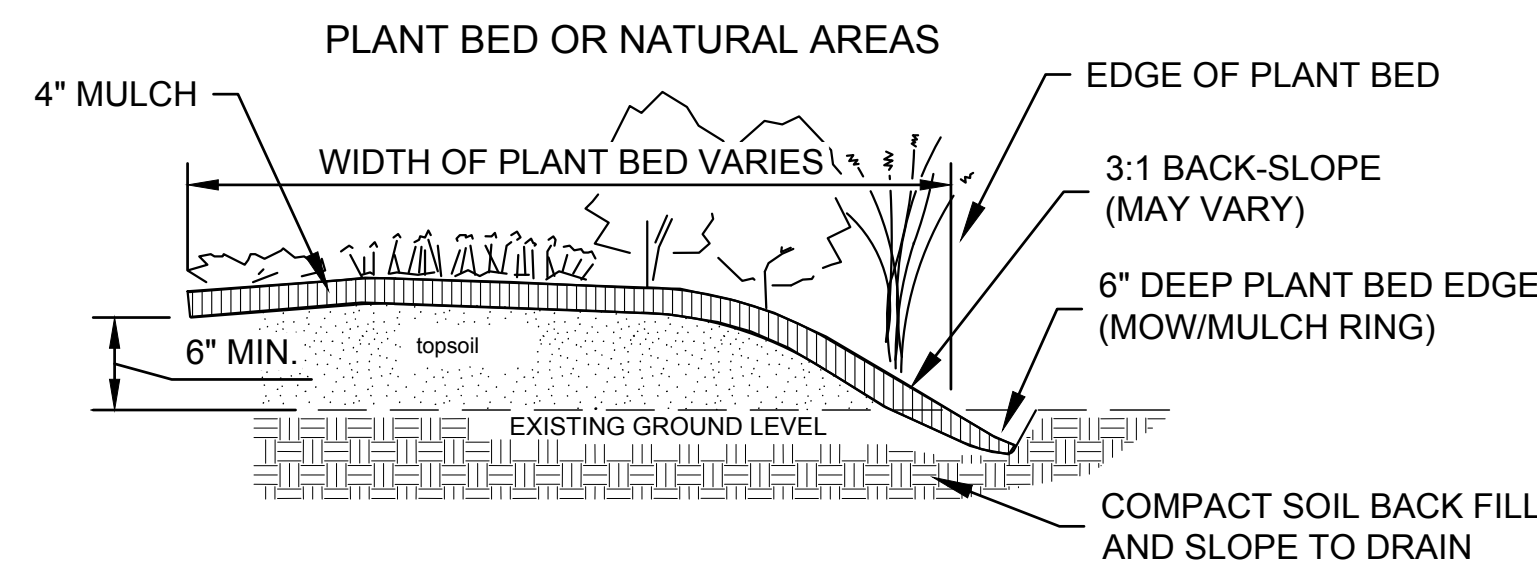
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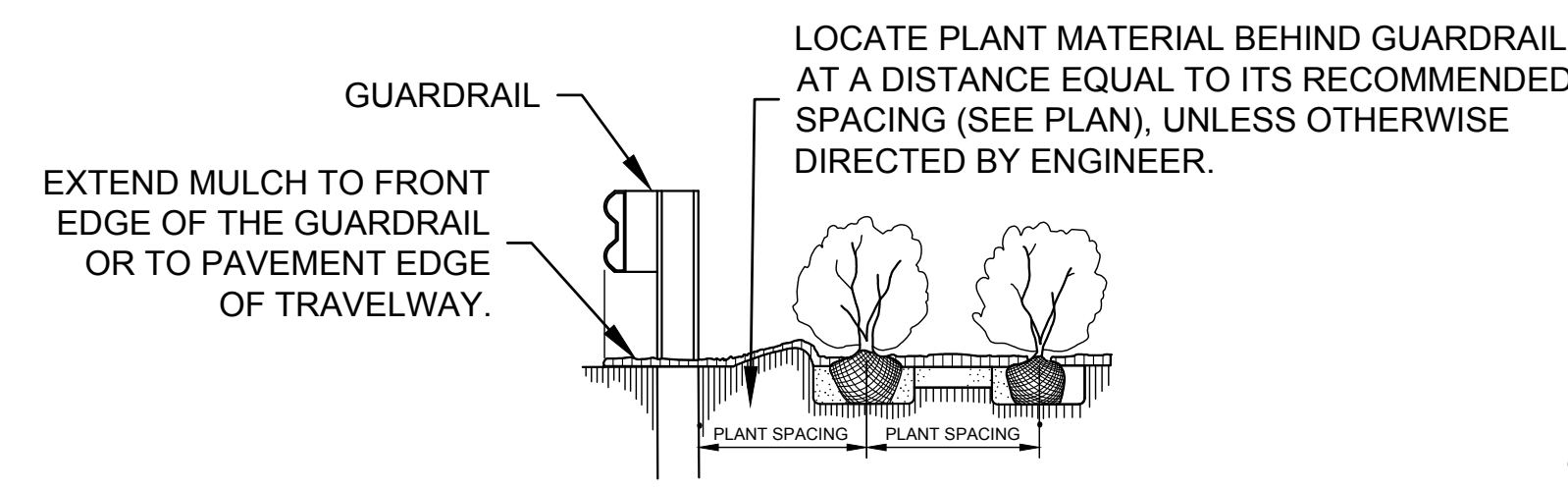
MULCH DETAIL



GROUND COVER/ BEDDING PLANT DETAIL

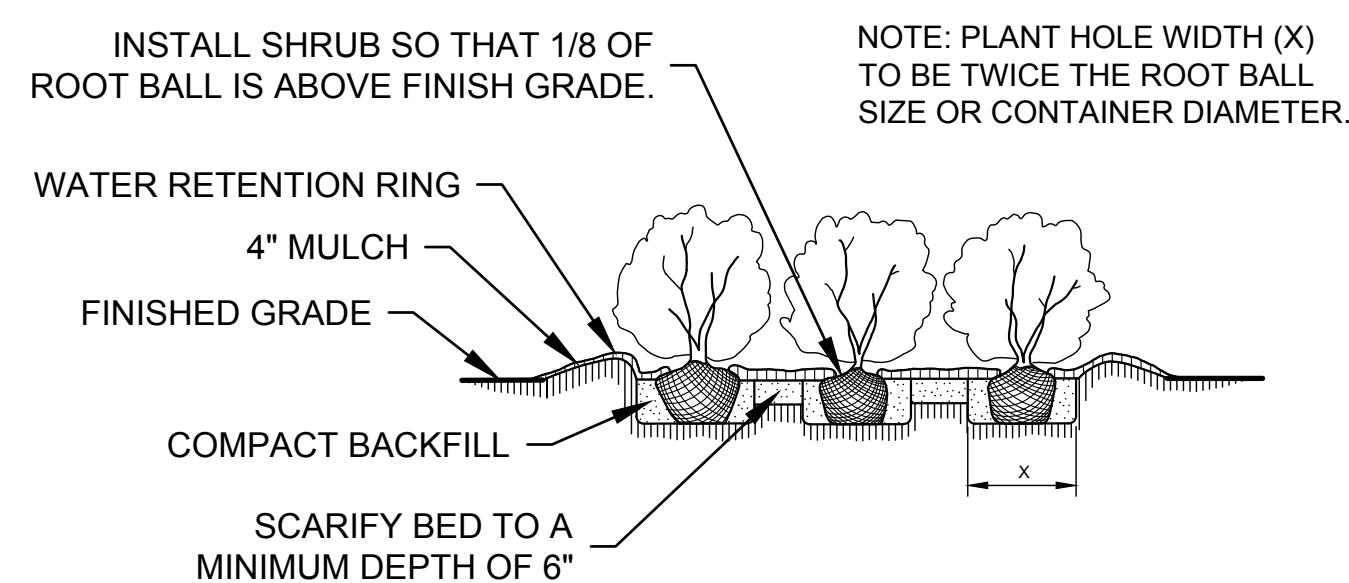


PLANT BED EDGE DETAIL

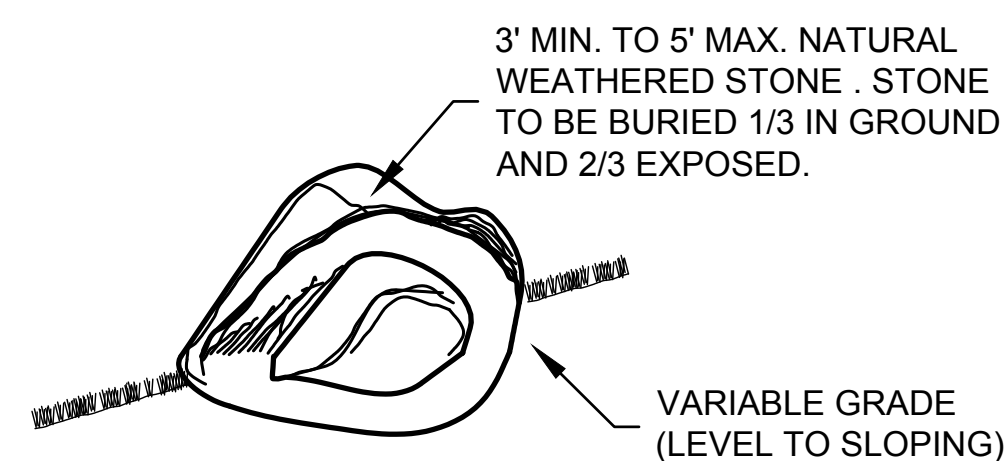


GUARDRAIL MULCHING DETAIL

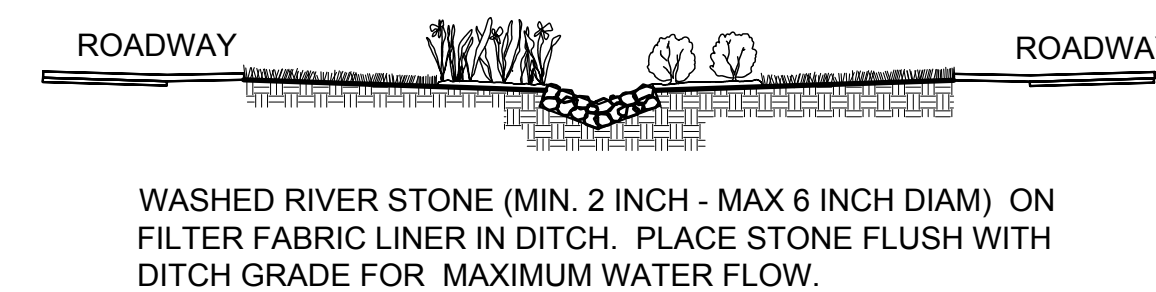
USE AS DIRECTED BY FIELD ENGINEER



SHRUB BED PLANTING DETAIL

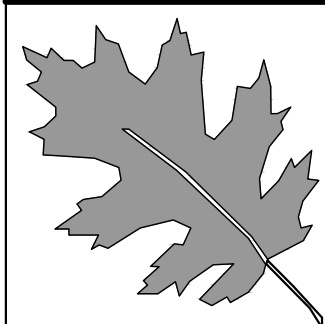


BOULDER PLACEMENT DETAIL TYPICAL



RIVERSTONE DITCH LINING DETAIL

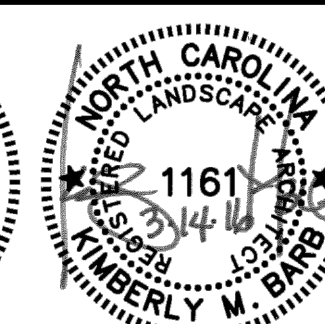
- SCHEDULE FOR PLANT HOLE SIZE: PLANT HOLE WIDTH (X) TO BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.
- SEE STANDARD SPECIFICATIONS FOR PLANT BED FUMIGATION AND HERBICIDAL TREATMENT.
- APPLY FERTILIZER AT PLANTING TIME IN THE FORM OF A SLOW RELEASE PELLET OR TABLET. APPLY AT RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION.
- REMOVE WIRE BASKET AND FOLD BURLAP BACK FROM TOP OF ROOT BALL BEFORE BACKFILLING IS COMPLETE.
- 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.



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NCDOT Roadway Enhancement
Morganton Interchange
Exit 104



SHEET DESCRIPTION:

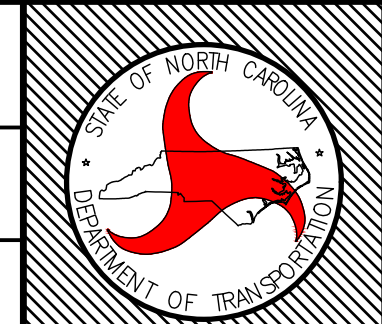
LANDSCAPE DEVELOPMENT

Landscape Planting

PRELIMINARY DESIGN DATE: 09/01/15 FINAL DESIGN DATE: 03/14/16

PROJECT:
U-2551 - WBS #: 34832.1.1

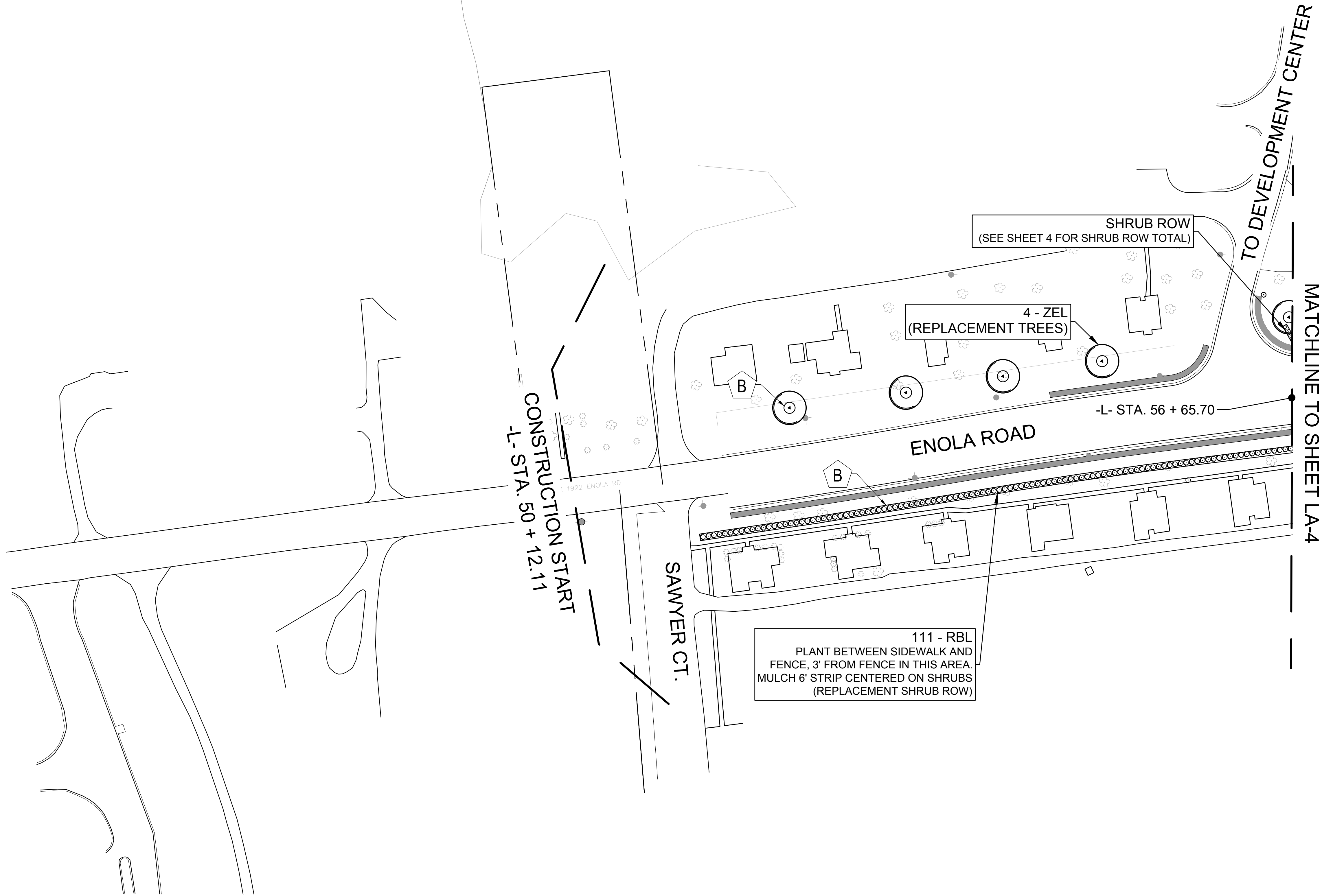
DIVISION AND COUNTY:
Division 13 - Burke County



SHEET NO :

LA-2

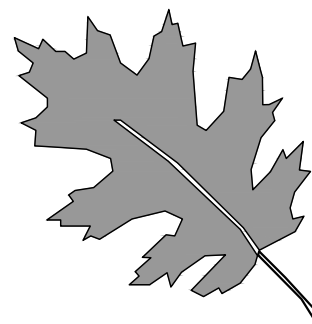
TOTAL SHEET NO : 9



PLANT KEY

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
RBL	111	Loropetalum chinensis v. rubrum 'Ruby'	'Ruby' Loropetalum	5' o.c.
ZEL	4	Zelkova serrata 'Green Vase'	'Green Vase' Japanese Zelkova	90' o.c.
NOTE		QUANTITY	DESCRIPTION	
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SEE COVER SHEET FOR DETAILED DESCRIPTION.

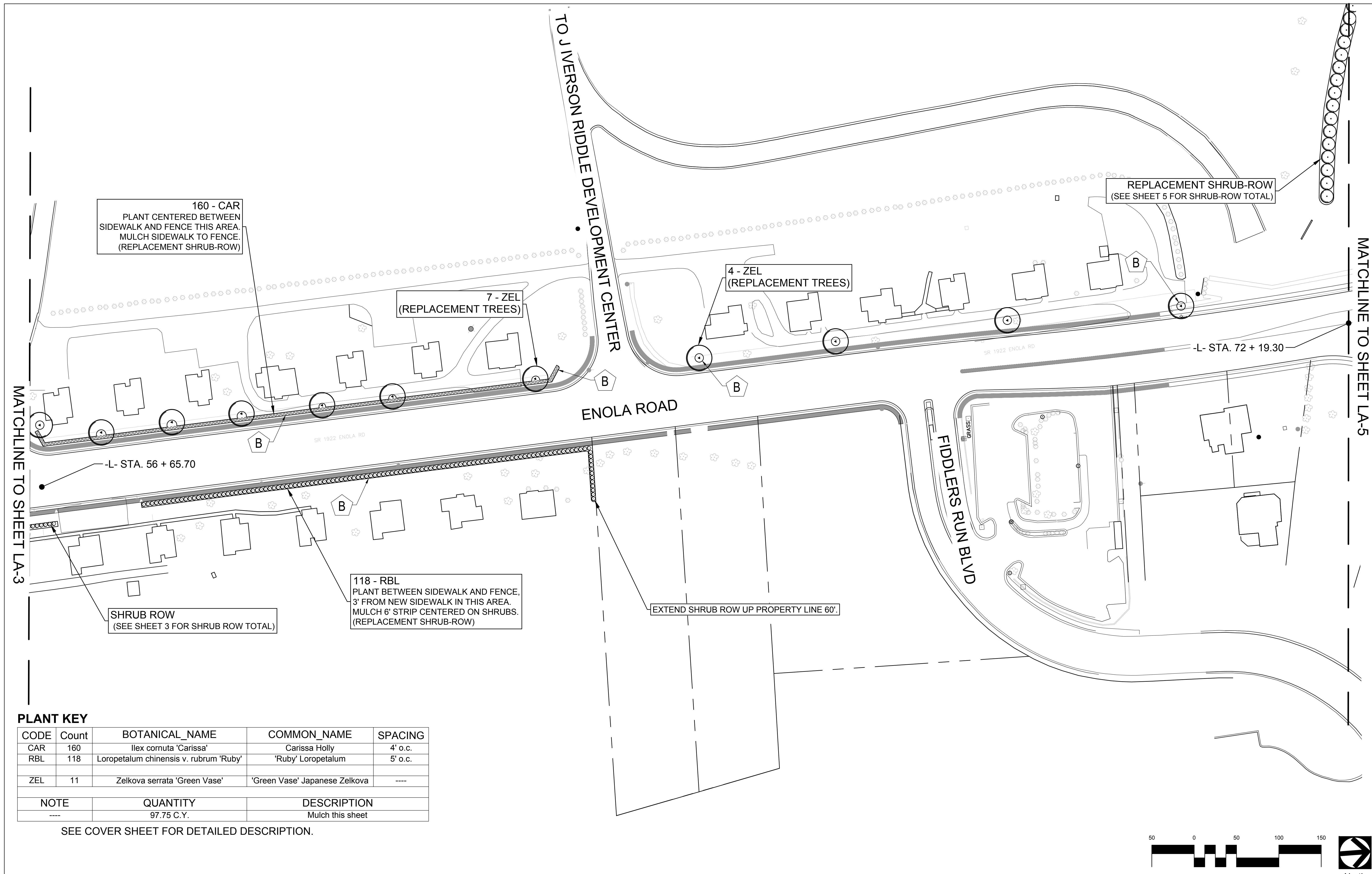


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Morganton Interchange
Exit 104



SHEET DESCRIPTION:	LANDSCAPE DEVELOPMENT	PRELIMINARY DESIGN DATE: 09/01/15	FINAL DESIGN DATE: 03/14/16		SHEET NO : LA-3 TOTAL SHEET NO : 9
	Landscape Planting	PROJECT: U-2551 - WBS #: 34832.1.1			
	DIVISION AND COUNTY: Division 13 - Burke County				



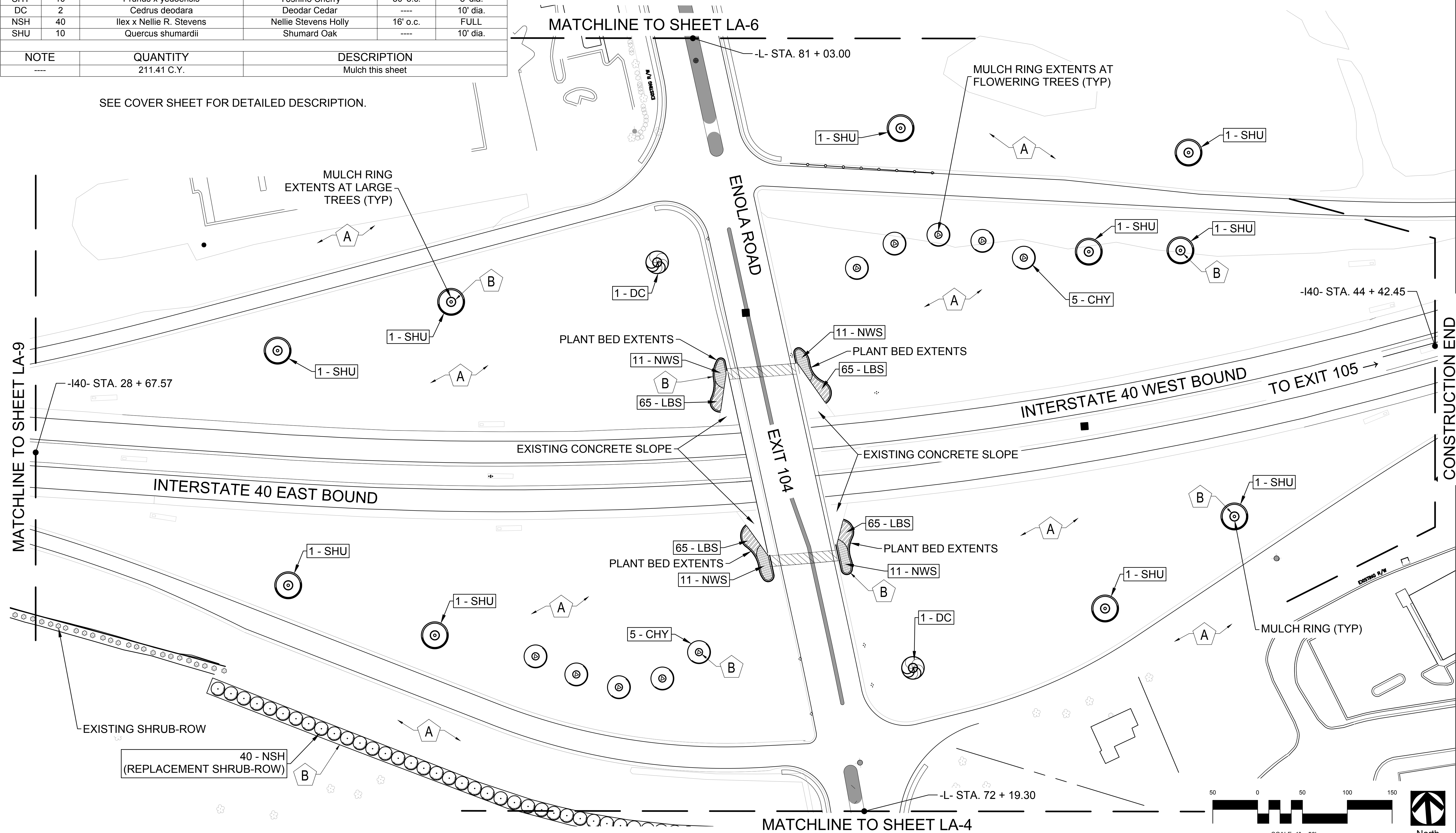
PLANT KEY				
CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
CAR	160	Ilex cornuta 'Carissa'	Carissa Holly	4' o.c.
RBL	118	Loropetalum chinensis v. rubrum 'Ruby'	'Ruby' Loropetalum	5' o.c.
ZEL	11	Zelkova serrata 'Green Vase'	'Green Vase' Japanese Zelkova	----
NOTE		QUANTITY	DESCRIPTION	
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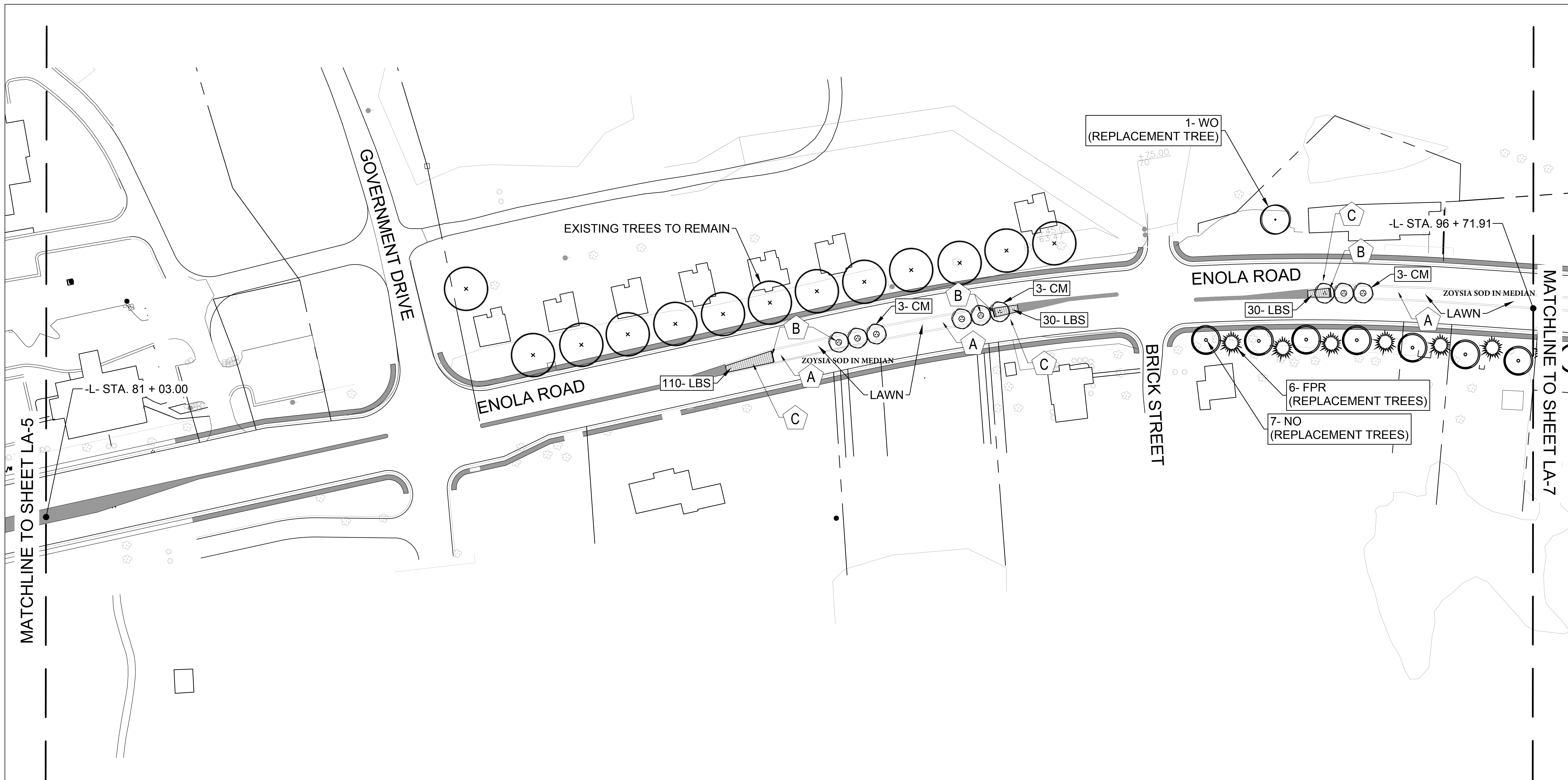
SEE COVER SHEET FOR DETAILED DESCRIPTION.

PLANT KEY

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING	MULCH_RING
LBS	260	Schizachyrium scoparium	Little Bluestem	24" o.c.	FULL
NWS	44	Panicum virgatum 'Northwind'	'Northwind' Swith Grass	5' o.c.	FULL
CHY	10	Prunus x yedoensis	Yoshino Cherry	50' o.c.	8' dia.
DC	2	Cedrus deodara	Deodar Cedar	-----	10' dia.
NSH	40	Ilex x Nellie R. Stevens	Nellie Stevens Holly	16' o.c.	FULL
SHU	10	Quercus shumardii	Shumard Oak	-----	10' dia.
NOTE		QUANTITY	DESCRIPTION		
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SEE COVER SHEET FOR DETAILED DESCRIPTION.

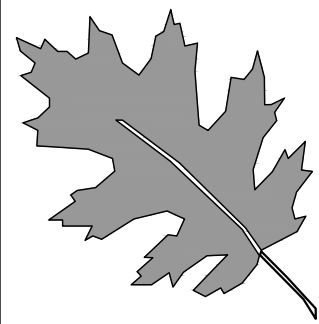
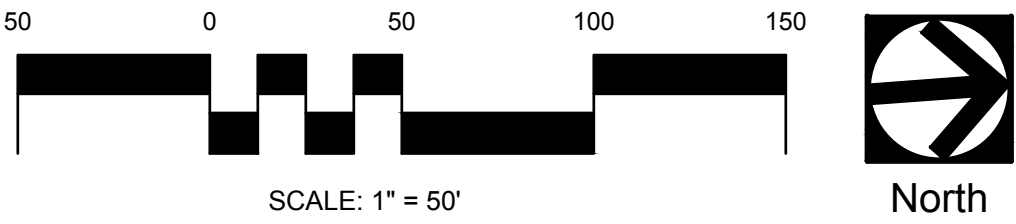




PLANT KEY

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING	MULCH RING
LBS	170	Schizachyrium scoparium	Little Bluestem	24" o.c.	----
CM	9	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	20' o.c.	4' dia.
FPR	6	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	----	8' dia.
NO	7	Quercus nuttallii	Nuttall Oak	----	10' dia.
WO	1	Quercus phellos	Willow Oak	----	10' dia.
NOTE		QUANTITY	DESCRIPTION		
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SEE COVER SHEET FOR DETAILED DESCRIPTION.

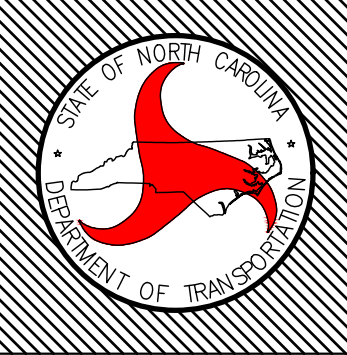


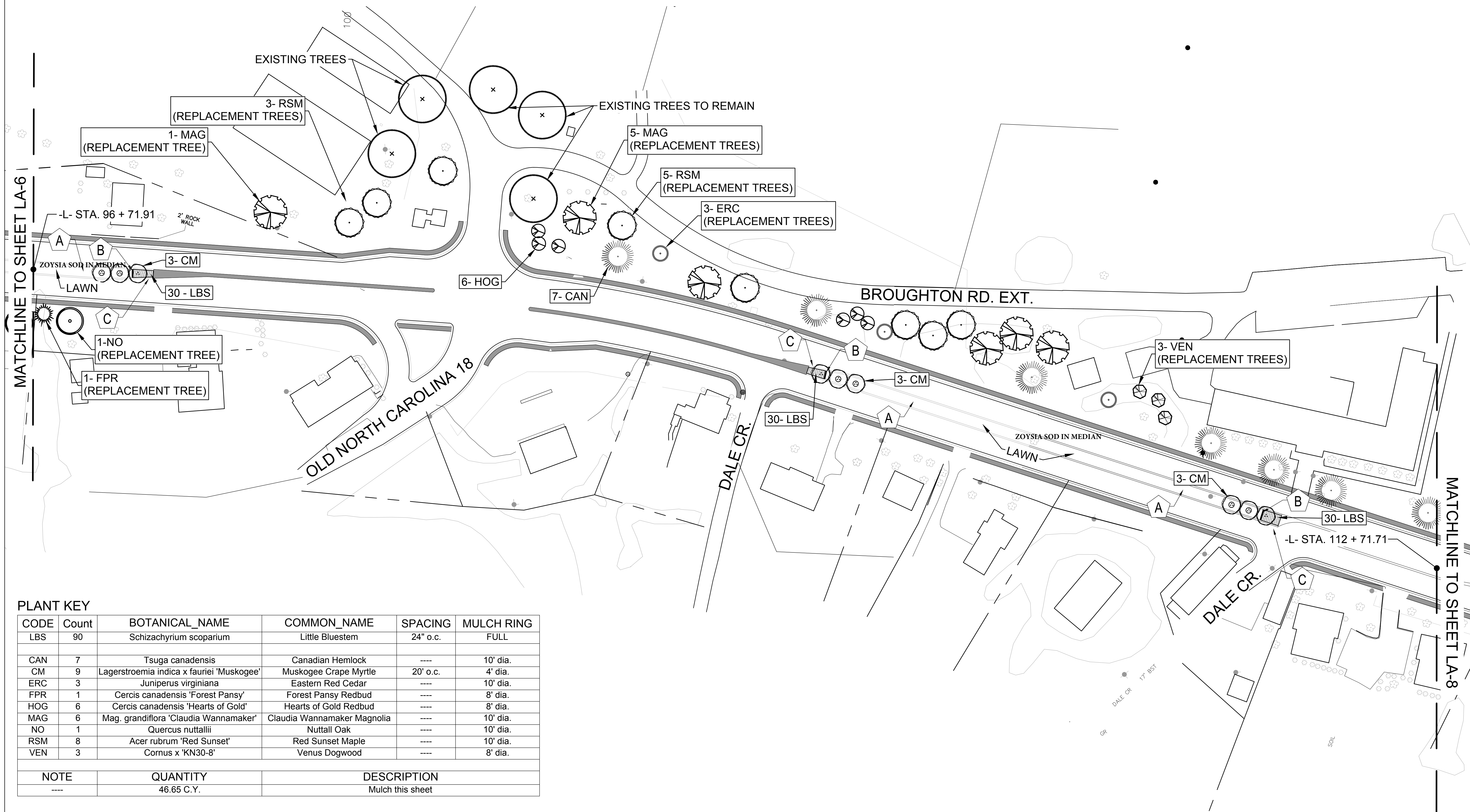
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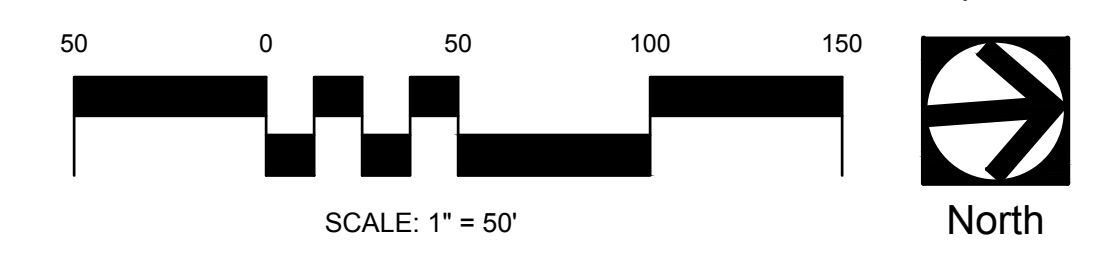


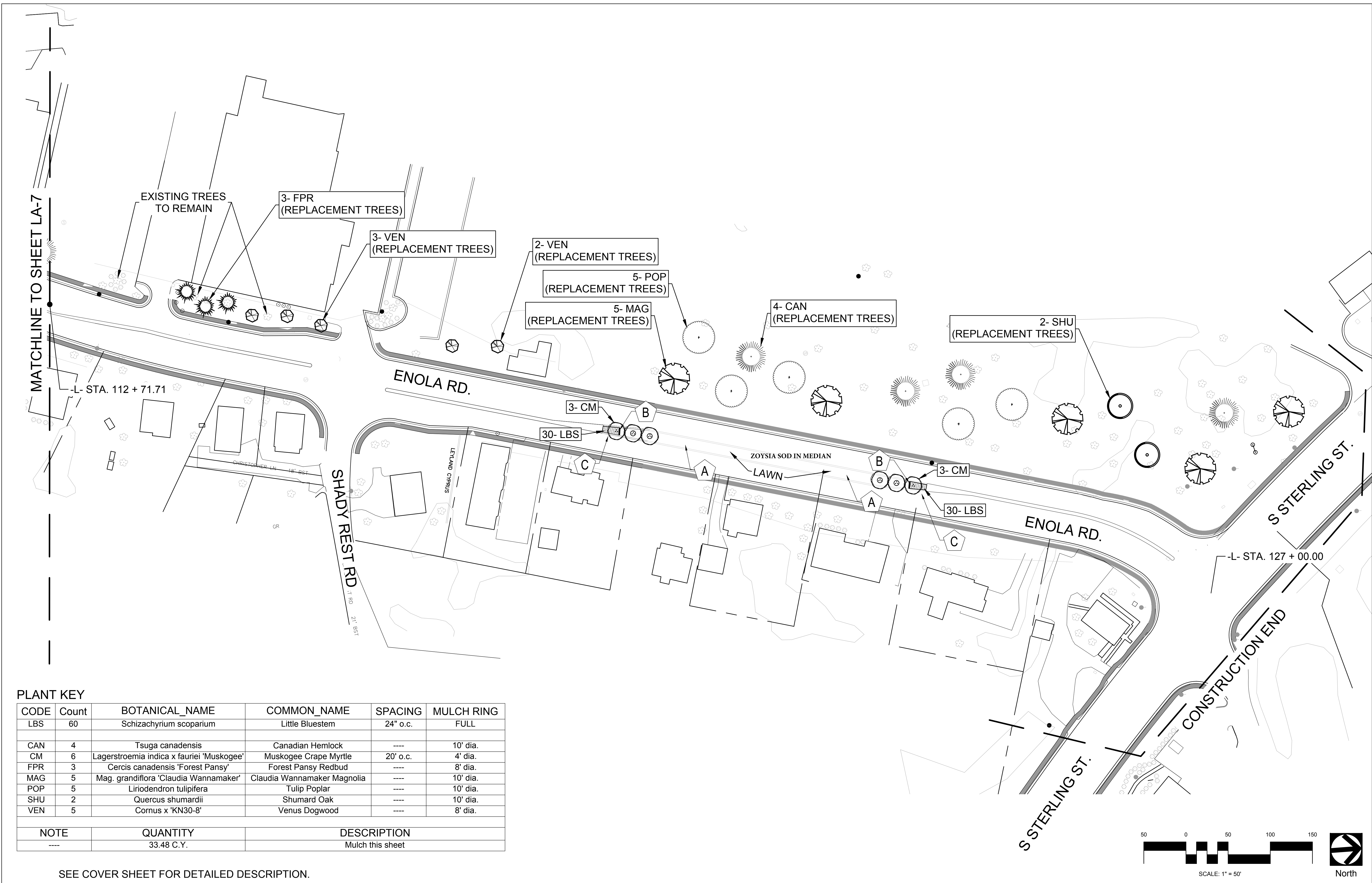
SHEET DESCRIPTION:	LANDSCAPE DEVELOPMENT	PRELIMINARY DESIGN DATE: 09/01/15	FINAL DESIGN DATE: 03/14/16		SHEET NO : LA-6
	Landscape Planting	PROJECT: U-2551 - WBS #: 34832.1.1			TOTAL SHEET NO : 9
		DIVISION AND COUNTY: Division 13 - Burke County			



PLANT KEY					
CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING	MULCH RING
LBS	90	Schizachyrium scoparium	Little Bluestem	24" o.c.	FULL
CAN	7	Tsuga canadensis	Canadian Hemlock	----	10' dia.
CM	9	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	20' o.c.	4' dia.
ERC	3	Juniperus virginiana	Eastern Red Cedar	----	10' dia.
FPR	1	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	----	8' dia.
HOG	6	Cercis canadensis 'Hearts of Gold'	Hearts of Gold Redbud	----	8' dia.
MAG	6	Mag. grandiflora 'Claudia Wannamaker'	Claudia Wannamaker Magnolia	----	10' dia.
NO	1	Quercus nuttallii	Nuttall Oak	----	10' dia.
RSM	8	Acer rubrum 'Red Sunset'	Red Sunset Maple	----	10' dia.
VEN	3	Cornus x 'KN30-8'	Venus Dogwood	----	8' dia.
NOTE		QUANTITY	DESCRIPTION		
----		46.65 C.Y.	Mulch this sheet		

SEE COVER SHEET FOR DETAILED DESCRIPTION.





PLANT KEY

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING	MULCH RING
LBS	60	Schizachyrium scoparium	Little Bluestem	24" o.c.	FULL
CAN	4	Tsuga canadensis	Canadian Hemlock	----	10' dia.
CM	6	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	20' o.c.	4' dia.
FPR	3	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	----	8' dia.
MAG	5	Mag. grandiflora 'Claudia Wannamaker'	Claudia Wannamaker Magnolia	----	10' dia.
POP	5	Liriodendron tulipifera	Tulip Poplar	----	10' dia.
SHU	2	Quercus shumardii	Shumard Oak	----	10' dia.
VEN	5	Cornus x 'KN30-8'	Venus Dogwood	----	8' dia.
NOTE		QUANTITY	DESCRIPTION		
----		33.48 C.Y.	Mulch this sheet		

SEE COVER SHEET FOR DETAILED DESCRIPTION.



PLANT KEY

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
NO NEW PLANTINGS THIS SHEET				
NOTE	QUANTITY		DESCRIPTION	
----	0 C.Y.		No Mulch this sheet	

SEE COVER SHEET FOR DETAILED DESCRIPTION.

