

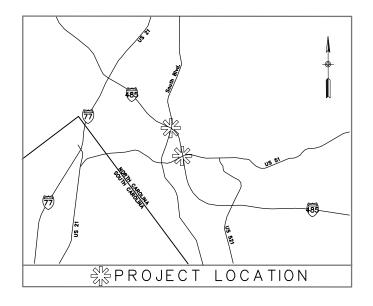
PROPOSED HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



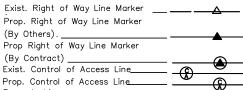
IMNHF-485 (34)	Landscape Renovation and Enhancement at two I-485 interchanges in Charlotte		10
FED. PROJ. #	DESCRIPTION		DIVISION
R-4902 L	39929.3.3	L1	8
T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET #

Summary of Quantities





Qty	Unit	Key	Botanical Name	Common Name	Furnish	ASNS	Spacing
Trees					-		
					3" Cal. /B&B, Single straight		
15	ea	QN	Quercus nuttali	Nuttal Oak	trunk, well-branched, matched	1.2.1	40' O.C.
					specimens		
			M I C III		9-10', B&B, Single straight		
12	ea	MG	Magnolia Grandiflora	Southern Magnolia	trunk, well-branched, matched	4.2.5	20' O.C.
			'Kay Parris'		specimens		
101		1	Lagerstroemia indica	C M II	6-8', 3-5 stems, minimum 1"	12222	151.0.0
121	ea	Lt	'Yuma'	Crape Myrtle	caliper each, well-branched	1.3.2.2.2	15' O. C.
Grasses							
			Muhlenbergia capillaris				
318	ea	MC	'White Cloud'	White Muhly Grass	#1 Container, fully rooted	12.4	36" O.C.
			Willia Cloud				
MODELLA CONTROL OF THE CONTROL	033400704e07						
OTHER ITE		1					
Quantity	Unit	Descrip					
Quantity 4450	Unit SY	Post-Er	nergence Herbicide Treatr				
Quantity 4450 4450	Unit SY SY	Post-Er Pre-Em	nergence Herbicide Treatr ergence Herbicidal Treatr				
Quantity 4450	Unit SY SY	Post-Er Pre-Em	nergence Herbicide Treatr				
Quantity 4450 4450 915	Unit SY SY	Post-Er Pre-Em Mulch	nergence Herbicide Treatr ergence Herbicidal Treatr				
Quantity 4450 4450 915 2.5	Unit SY SY CY	Post-Er Pre-Em Mulch Clearin	nergence Herbicide Treati ergence Herbicidal Treati for Planting				
Quantity 4450 4450 915 2.5	Unit SY SY CY Acre Acre	Post-Er Pre-Em Mulch Clearin Woode	nergence Herbicide Treatr ergence Herbicidal Treatn for Planting g and Grubbing	nent for Plant Beds			
Quantity 4450 4450 915 2.5	Unit SY SY CY Acre Acre	Post-Ern Pre-Emn Mulch Clearin Woode Plant B	mergence Herbicide Treatr ergence Herbicidal Treatn for Planting g and Grubbing d Edge Clean-up	nent for Plant Beds and Euonymus beds)			
Quantity	Unit SY SY CY Acre Acre	Post-Er Pre-Em Mulch Clearin Woode Plant B	mergence Herbicide Treatr ergence Herbicidal Treatr for Planting g and Grubbing d Edge Clean-up ed Cleanup (Holly Hedges	nent for Plant Beds and Euonymus beds)			
Quantity	Unit SY SY CY Acre Acre SY	Post-Er Pre-Em Mulch Clearin Woode Plant B Plant B Seeding	mergence Herbicide Treati ergence Herbicidal Treati for Planting g and Grubbing d Edge Clean-up ed Cleanup (Holly Hedges ed Cleanup and Vegetatio	nent for Plant Beds and Euonymus beds)			



CONVENTIONAL SYMBOLS

County Line

City or Town Line

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 _ Survey Line Denotes Line Equality Bridge_ Culvert Railroad OR___OR___OR___ Woods_ Exist. Telephone Pole _ Prop. Telephone Pole_ Tower Pole and Line Exist. Power Pole_

INDEX OF SHEETS:

L1 Title Sheet,

Prop. Power Pole_ Sanitary Sewer Line

Water Line ___ Gas Line ___ Picnic Shelter

Reforestation -

Summary of Quantities

L2 Planting Details

L3 Key Map

L4-L6... Clearing and Maintenance

Plans L7-L8... Planting Plans

PREPARED BY:

Design Workshop 60 Biltmore Ave. Suite 3C Asheville, NC 28801 (828) 225-6901 www.designworkshop.com

DATE:	REVISIONS
12-3-15	Treatment Zone Areas, etc.



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

TYPE of WORK: Landscape Enhancement

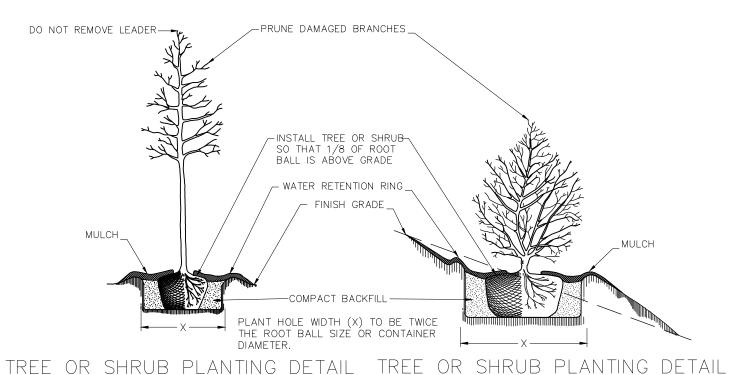
COUNTY: Mecklenburg County

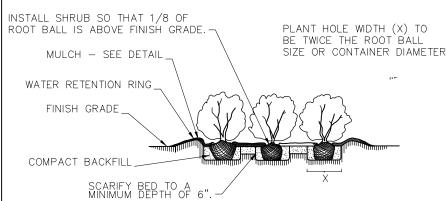


2004 American Standard for Nursery Stock 2012 NCDOT STANDARD SPECIFICATIONS PREPARED IN THE OFFICE OF:

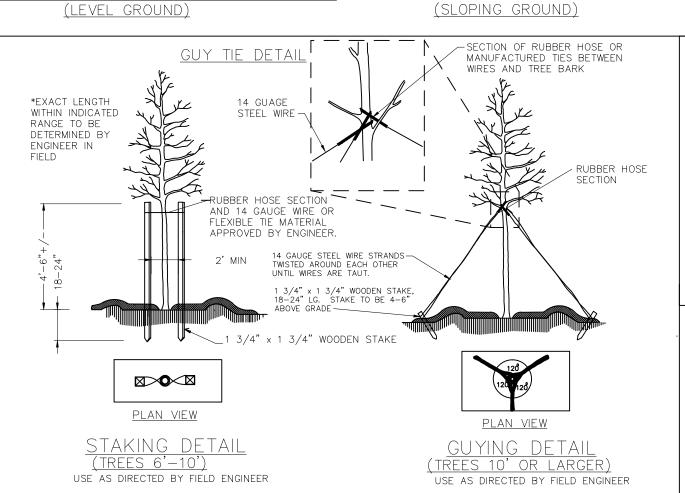
NCDOT- ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT SECTION 1557 MAIL SERVICE CENTER

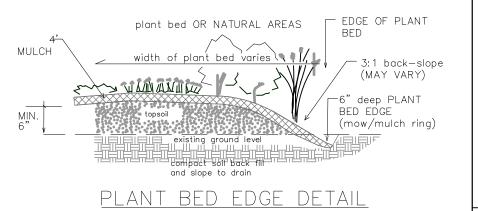
RALEIGH NC 27699 919-707-2935

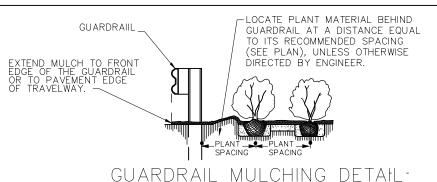




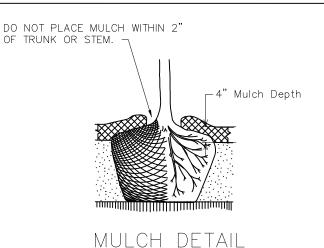
SHRUB BED PLANTING DETAIL







USE AS DIRECTED BY FIELD ENGINEER



NOTES:



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

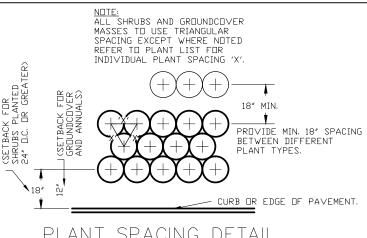


REMOVE WIRE BASKET AND FOLD BURLAP BACK FROM TOP OF ROOT BALL BEFORE BACKFILLING IS COMPLETE.



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.



PLANT SPACING DETAIL



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

I-485 Landscape Renovation/Enhancement at NC-51 and South Blvd, Charlotte, NC

project #: R-4902 Phase 2



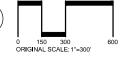
ription:	Planting Details	prel design date:	
descri		checked by & date :	
sheet		final design date :	



sheet no:









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I-485 Landscape Renovation/Enhancement at NC-51 and South Blvd, Charlotte, NC

R-4902 Phase 2 project #:

u engineer :	ption	Lc
	description	
	sheet	

ption:	Landscape Development	prel design date:	11-13-2015
descri	KEY MAP	checked by & date :	12-1-2015
sheet		final design date :	12-3-2015



Treatment Zone 1 - Clearing and Grubbing (2.5 Acres - Total at NC 51 Interchange)

Treatment Zone 2 - Wooded Edge Clean-up (4.25 Acres - Total at NC 51 Interchange)

Treatment Zone 3 - Plant Bed Cleanup and Vegetation Removal (1260 SY Total)

Approximate Location of Pyracantha Beds

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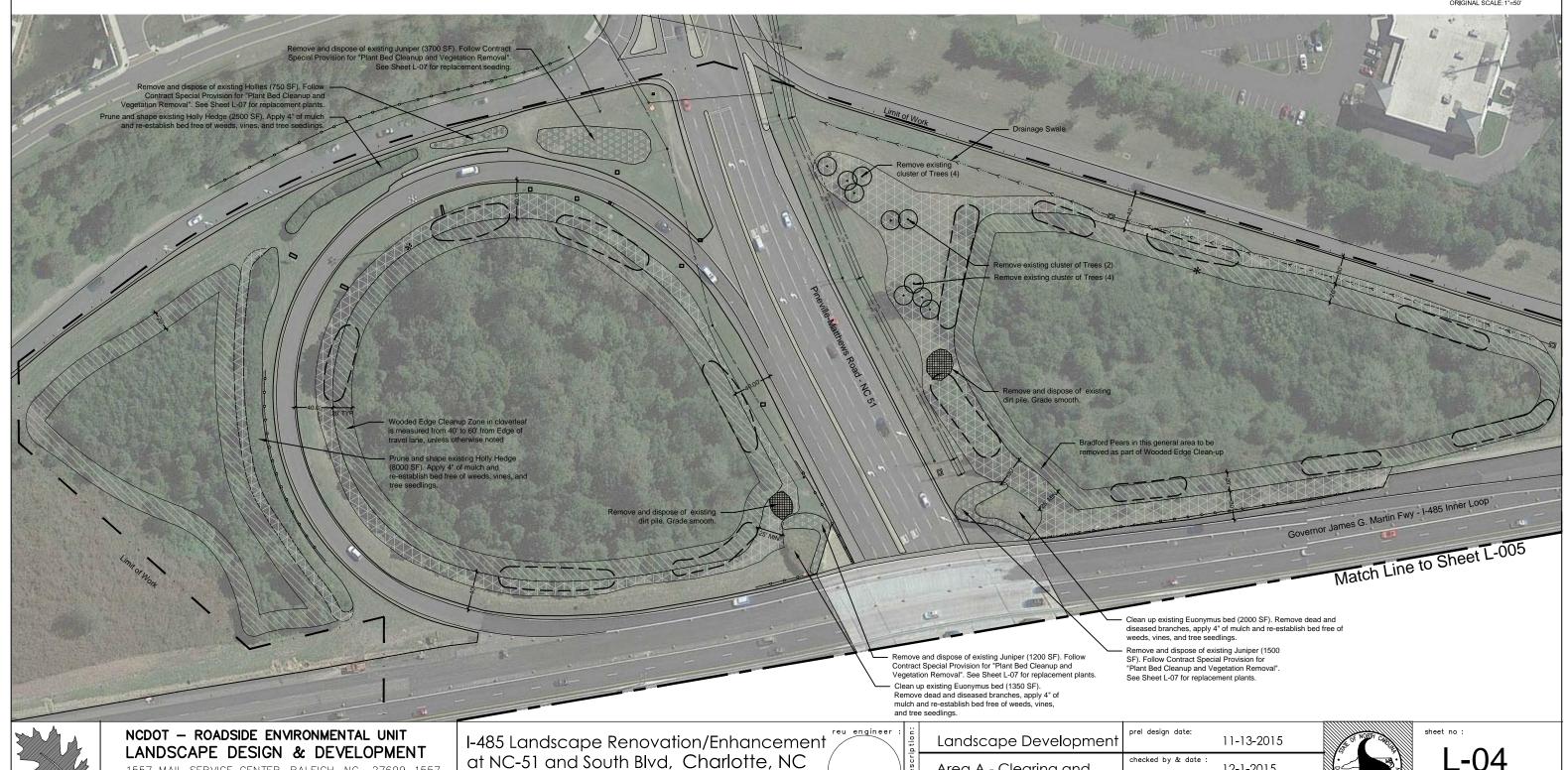
NOTES

- 1. Acreages for Treatment Zones are estimates. Exact areas will be defined by the Engineer in the field. In Cloverleafs, Treatment Zone 1 includes the clearing and grubbing of all vegetation (excluding existing turf) within a 40' setback from the edge of travel lane. Refer to plans for clearing setbacks in other areas.
- 2. Refer to Contract Special Provisions for detailed instructions regarding treatment
- 3. Pyracantha beds shown on plan shall be removed and disposed of per contract special provisions for Zones 1 and 2.

R-4902 Phase 2



total sheet no : 8



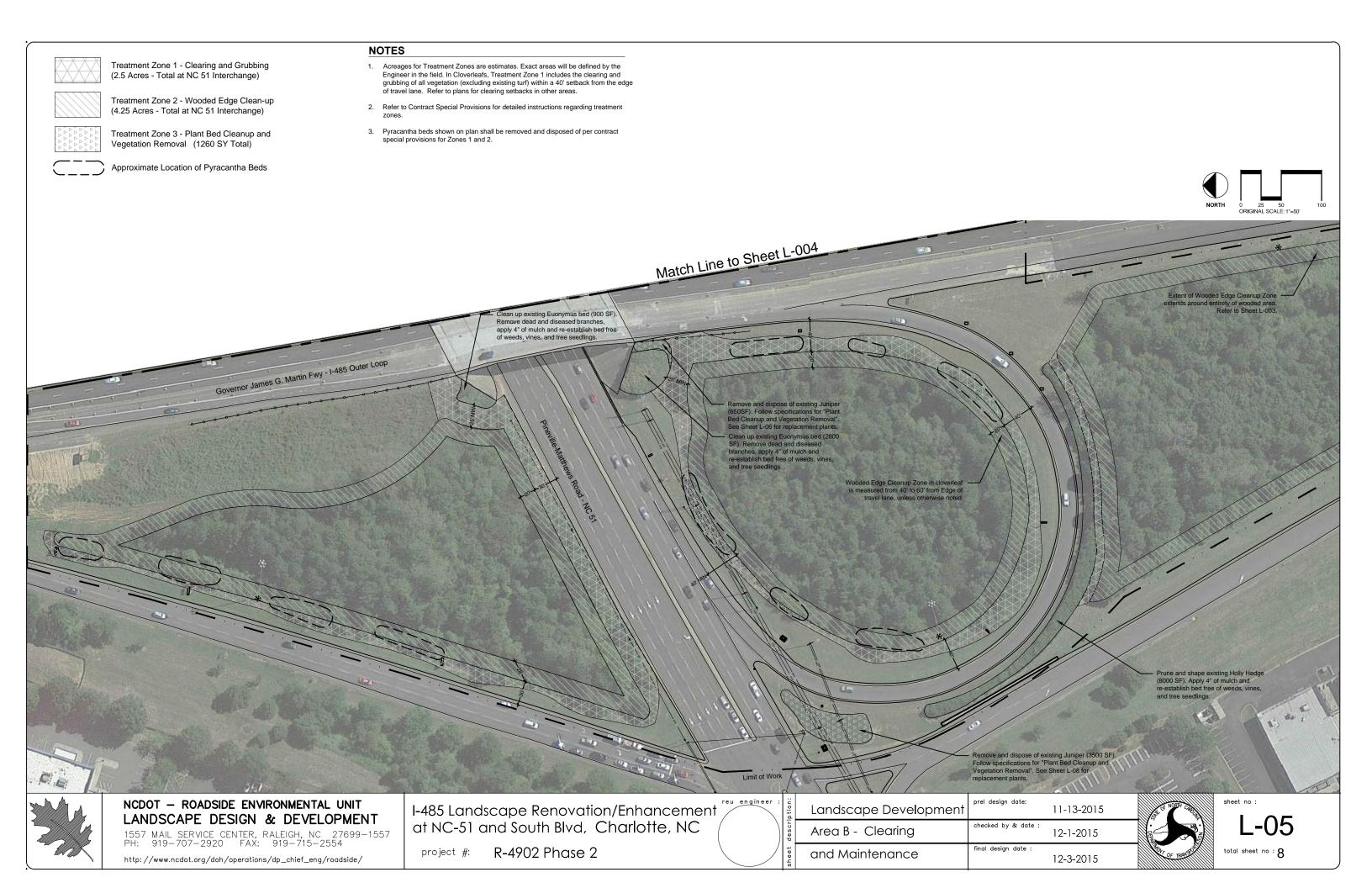
Area A - Clearing and

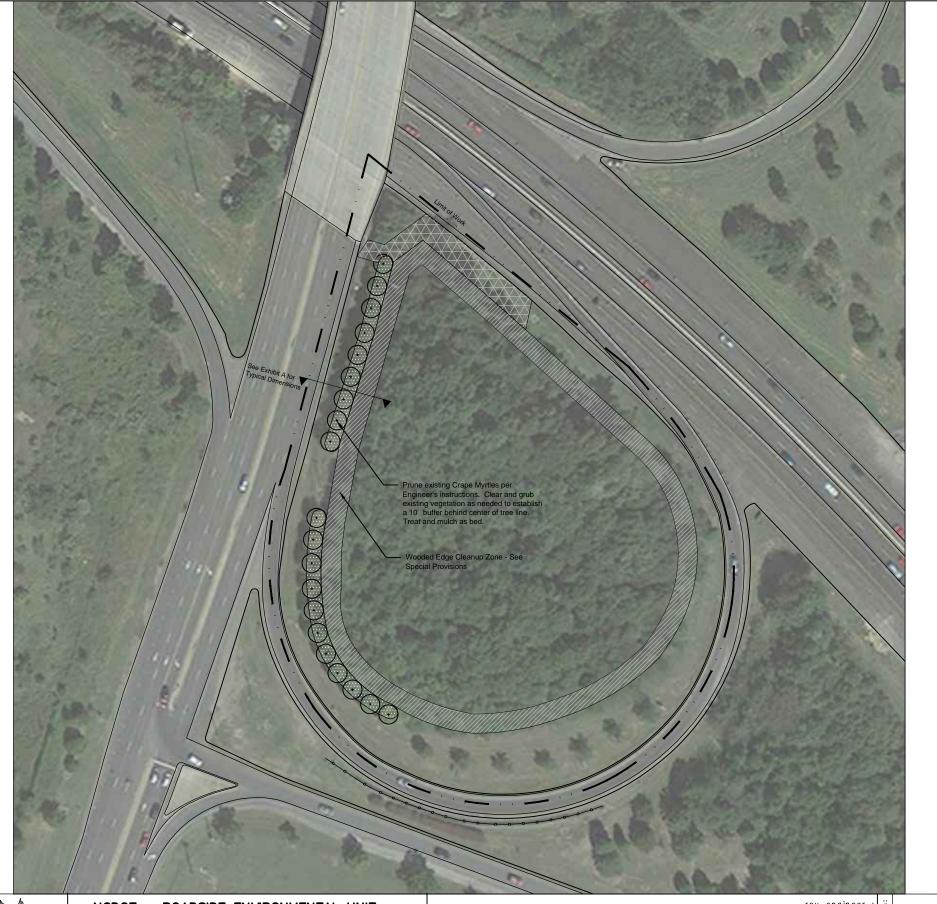
Maintenance

12-1-2015

12-3-2015

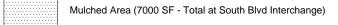
final design date :





Treatment Zone 1 - Clearing and Grubbing (0.2 Acres - Total at South Blvd Interchange)

Treatment Zone 2 - Wooded Edge Clean-up (0.75 Acres - Total at South Blvd Interchange)



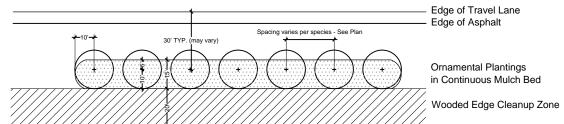
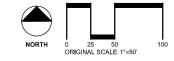


Exhibit A - Typical Dimensions for Ornamental Planting Beds in Cloverleafs





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I-485 Landscape Renovation/Enhancement at NC-51 and South Blvd, Charlotte, NC

project #: R-4902 Phase 2

iption:	Landscape Development	prel design date: 11-13-20	15
descri	Area C - Clearing and	checked by & date : 12-1-201	5
sheet	Maintenance	final design date : 12-3-201	5





LANDSCAPE PLANTING NOTES

- 1. Plant material shown on this sheet reflect totals for the entire project.
- 2. Tree setbacks depicted on the plan are measured from edge of travel lane.
- 3. Contact the local underground utility services for utility location and identification.
- Perform excavation in the vicinity of underground utilities with care and if necessary, by hand. The
 Contractor bears full responsibility for this work and disruption or damage to utilities shall be repaired
 immediately at no expense to the Owner.
- 5. Trees shall bear same relation to finished grade as it bore to existing.
- 6. Verify plant counts and square footages. If quantities on plant list differ from graphic indications, then graphics shall prevail.
- 7. Exact locations of plant materials to be approved by the Engineer in the field prior to installation.
- Mulch oaks individually.
- 9. Engineer to designate in the field additional areas for supplemental seeding.

PLA	NT	MA	TER	IALS

Qty	Unit	Key	Botanical Name	Common Name	Furnish	ASNS	Spacing
Trees							
15	ea	QN	Quercus nuttali	Nuttal Oak	3" Cal. /B&B, Single straight trunk, well-branched, matched specimens	1.2.1	40' O.C.
12	ea	MG	Magnolia Grandiflora 'Kay Parris'	Southern Magnolia	9-10', B&B, Single straight trunk, well-branched, matched specimens	4.2.5	20' O.C.
121	ea	LI	Lagerstroemia indica 'Yuma'	Crape Myrtle	6-8', 3-5 stems, minimum 1" caliper each, well-branched	1.3.2.2.2	15' O. C.
Grasses	Grasses						
318	ea	MC	Muhlenbergia capillaris 'White Cloud'	White Muhly Grass	#1 Container, fully rooted	12.4	36" O.C.
			1		•		

New Turf Areas - Seed and Mulch
(0.2 Acres - Total at NC 51 Interchange)

Supplemental Seeding Areas (0.55 Acres - Total at NC 51 Interchange)

Mulched Areas (67,000 SF - Total at NC 51 Interchange)





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I-485 Landscape Renovation/Enhancement at NC-51 and South Blvd, Charlotte, NC

project #: R-4902 Phase 2

Landscape Development prel design date: 11-13-2015

Area A - Planting checked by & date: 12-1-2015

Enhancements final design date: 12-3-2015



L-07

LANDSCAPE PLANTING NOTES PLANT MATERIALS 1. Plant material and other quantities shown on this sheet reflect totals for the entire project Qty Unit ASNS Spacing Key **Botanical Name** Common Name Furnish New Turf Areas - Seed and Mulch Trees 2. Tree setbacks depicted on the plan are measured from edge of travel lane. (0.2 Acres - Total at NC 51 Interchange) 3" Cal. /B&B, Single straight trunk, well-branched, matched specimens 3. Contact the local underground utility services for utility location and identification. Supplemental Seeding Areas 15 ea QN Quercus nuttali **Nuttal Oak** 1.2.1 40' O.C. (0.55 Acres - Total at NC 51 Interchange) Perform excavation in the vicinity of underground utilities with care and if necessary, by hand. The Contractor bears full responsibility for this work and disruption or damage to utilities shall be repaired immediately at no expense to the Owner. Mulched Areas (67,000 SF - Total at NC 51 Interchange) 9-10', B&B, Single straight Southern 5. Trees shall bear same relation to finished grade as it bore to existing. 12 ea Magnolia Grandiflora 'Kay Parris' trunk, well-branched, 4.2.5 20' O.C. Magnolia natched specimens 6. Verify plant counts and square footages. If quantities on plant list differ from graphic indications, then graphics shall prevail. 6-8', 3-5 stems, minimum 1" 7. Exact locations of plant materials to be approved by the Engineer in the field prior to installation. 121 ea Lagerstroemia indica 'Yuma' Crape Myrtle 1.3.2.2.2 15' O. C. caliper each, well-branched 8. Mulch oaks individually. Grasses 9. Engineer to designate in the field additional areas for supplemental seeding. 318 Muhlenbergia capillaris 'White Cloud' #1 Container, fully rooted 36" O.C. ea Match Line to Sheet L-007 Governor James G. Martin Fwy - I-485 Outer Loop 0

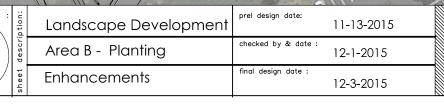
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project #: R-4902 Phase 2





L-08