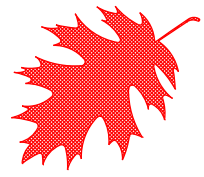
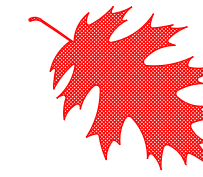


PROJECT: CONCORD NC- Landscape Enhancement

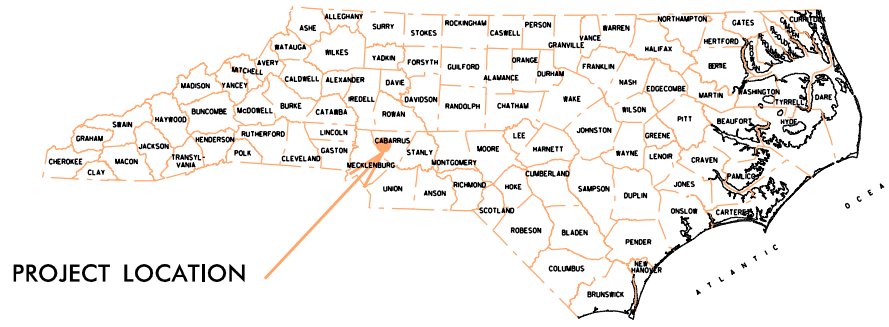


HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



CABARRUS COUNTY LANDSCAPE ENHANCEMENT

LOCATION: I-85, Concord NC
TYPE OF WORK: Interchange Landscape Enhancements



SUMMARY OF QUANTITIES

QTY.	UNIT	COMMON NAME	BOTANICAL NAME	FURNISH	REMARKS
Trees					
34	EA	Bald Cypress	Taxodium distichum	8-10', B&B or Cont.	Min. 1 1/4" Cal
9	EA	Black Tupelo	Nyssa sylvatica	8-10', B&B or Cont.	Min. 1 1/4" Cal
134	EA	Chinese Elm	Ulmus parvifolia	8-10', B&B or Cont.	Min. 1 1/4" Cal
2	EA	Coral Bark Maple	Acer palmatum 'Sango Kaku'	10-12', Specimen	Min. 5' Spread
81	EA	Deodar Cedar	Cedrus deodara	6-8', B&B or Cont.	Full, Min. 1 1/4" cal
45	EA	Forest Pansy Redbud	Cercis canadensis 'Forest Pansy'	6-8', B&B or Cont.	Min. 1" Cal
320	EA	Green Giant Arborvitae	Thuja 'Green Giant'	6-8', B&B or Cont.	Min. 1" Cal
277	EA	Loblolly Pine	Pinus taeda	8-10', #10 Cont.	Min. 1 1/4" Cal
12	EA	Muskogee Crape Myrtle	Lagerstroemia indica 'Muskogee'	6-8', B&B or Cont.	3-4 stem, 1 1/4" cal
61	EA	Nellie R Stevens Holly	Ilex x 'Nellie R Stevens'	8-10', CONT. GROWN	Min. 1 1/2" Cal
24	EA	Potomac Crape Myrtle	Lagerstroemia indica 'Potomac'	8-10', B&B or Cont.	3-4 stem, 1 1/4" cal
67	EA	Scarlet Oak	Quercus coccinea	8-10', B&B or Cont.	Min. 1 1/4" Cal
4	EA	Shumard Oak	Quercus shumardii	8-10', B&B or Cont.	Min. 1 1/4" Cal
15	EA	Yoshino Cherry	Prunus x yedoensis	8-10', B&B or Cont.	Min. 1 1/2" Cal
Shrubs					
24	EA	Burgundy Loropetalum	Loropetalum chinense 'Burgundy'	#3 Cont.	18-24"
13	EA	Carolina Cherry Laurel	Prunus caroliniana	#7 cont.	3-4' hgt
297	EA	Dwarf Burning Bush	Euonymus alatus 'Compactus'	#3 Cont.	18-24"
53	EA	Shoal Creek Chastetree	Vitex agnus-castus 'Shoal Creek'	#7 cont.	3-4' hgt
Grasses & Perennials					
885	EA	Cloud Nine Switch Grass	Panicum virgatum 'Cloud Nine'	QT. Plug	3' O.C.
Descriptions					
2800	CY	Mulch for Planting			
150	MG	Water for Planting			
25,000	SY	Pre emergence Herbicidal Treatment			
25,000	SY	Post emergence Herbicidal Treatment			
4	ACR	Selective Undergrowth Removal			
1	ACR	Plant Bed Cleanup and Vegetation Removal			
20	EA	Tree Removal			
780	LF	Stacked Stone Wall			
31	ACRE	Initial Seeding			
31	ACRE	First Year Spring Seeding			
31	ACRE	First Year Fall Seeding			
31	ACRE	Second Year Spring Seeding			
31	ACRE	Second Year Fall Seeding			
5	ACRE	Reforestation Bed Grading			
460	CY	Topsoil			
460	CY	Fill Soil			
2	ACR	Fertilizing Plant Beds		4#/ 1000sf	
31	ACR	Quadrant Mowing with zero turn mowers		14 mowing cycles/year	28 total cycles

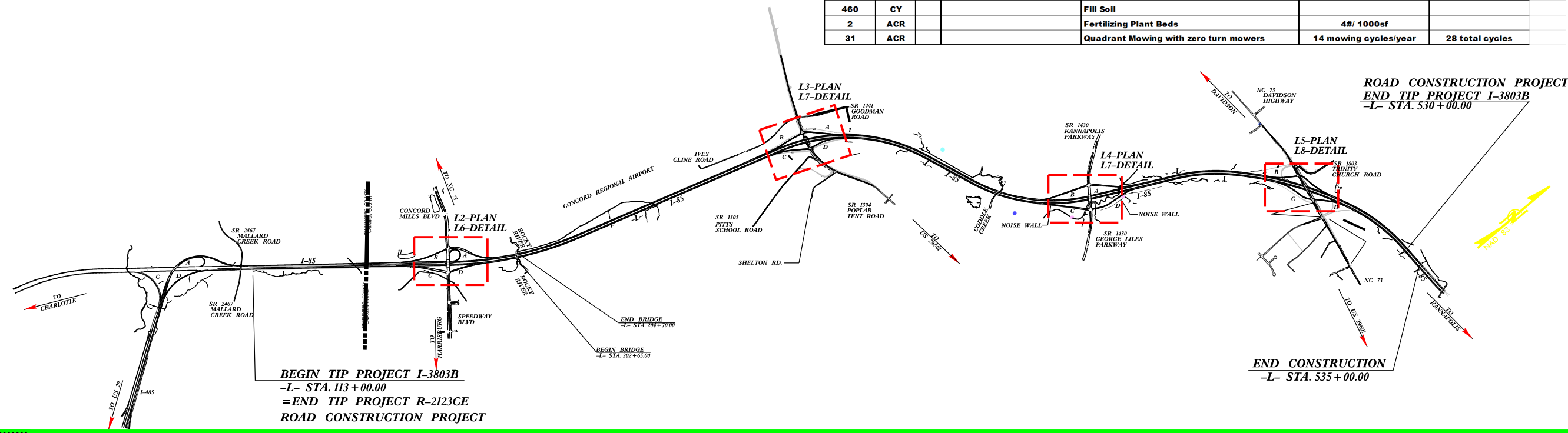
T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
I-3803B(L)	34187.3.5	L 1	11
FED. PROJ. #	DESCRIPTION	DIVISION	
NHIMF-0085(44)	LANDSCAPE	10	

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	---
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	---

INDEX OF SHEETS:

L 1 ...	TITLE, DESCRIPTION, LOCATION
L 2 - L 5 ...	INTERCHANGE PLANS
L 6- L 8 ...	INTERCHANGE DETAILS
L 9 ...	REFORESTATION/REVEGETATION DETAIL
L 10 ...	RAISED STONE PLANT BED DETAIL
L 11 ...	PLANTING DETAILS



PREPARED BY: BK DATE: 12/2017
REVISIONS

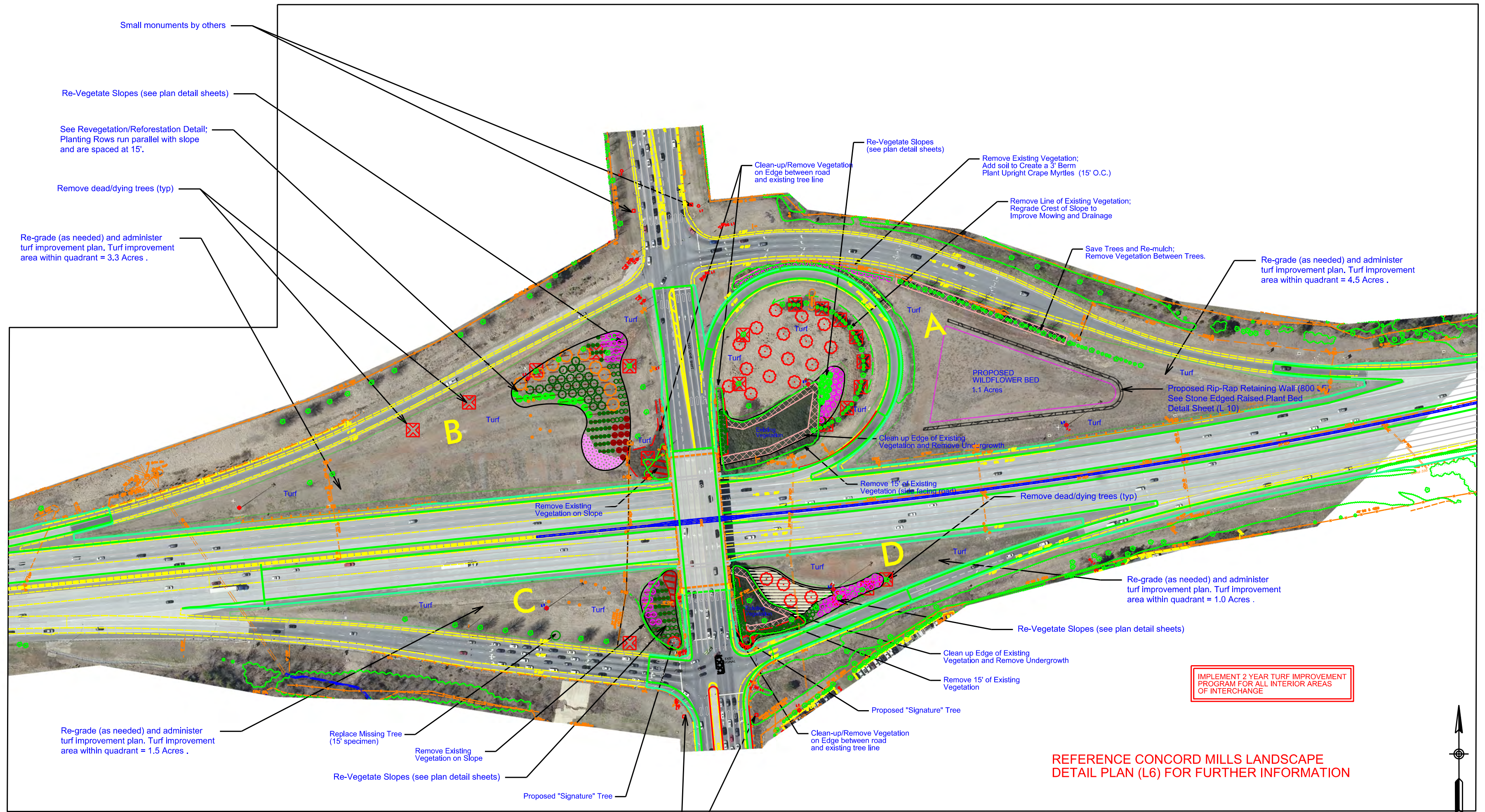
DATE	DESCRIPTION
NOV-2017	INTERCH. PLANTING RE-DESIGN
JAN-2018	REVIEW CORRECTIONS

2014 American Standard for Nursery Stock
2018 NCDOT STANDARD SPECIFICATIONS
PREPARED IN THE OFFICE OF:
NCDOT- ROADSIDE ENVIRONMENTAL UNIT
AESTHETIC ENGINEERING SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27699 919-707-2920

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

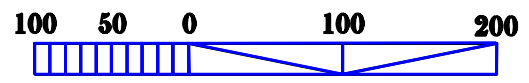
LOCATION: I-85, CONCORD NC
TYPE OF WORK: Interchange Landscape Enhancements
COUNTY: CABARRUS COUNTY

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$SYUSER\$\$\$\$\$



IMPLEMENT 2 YEAR TURF IMPROVEMENT PROGRAM FOR ALL INTERIOR AREAS OF INTERCHANGE

REFERENCE CONCORD MILLS LANDSCAPE DETAIL PLAN (L6) FOR FURTHER INFORMATION



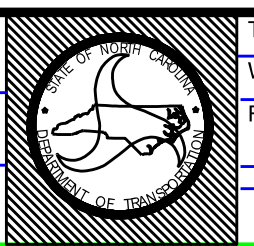
ncdot - Roadside environmental unit
 landscape design & Development
 1557 mail service center raleigh nc 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

I-3803B I-85
 Landscape Development Plan
 Concord, NC

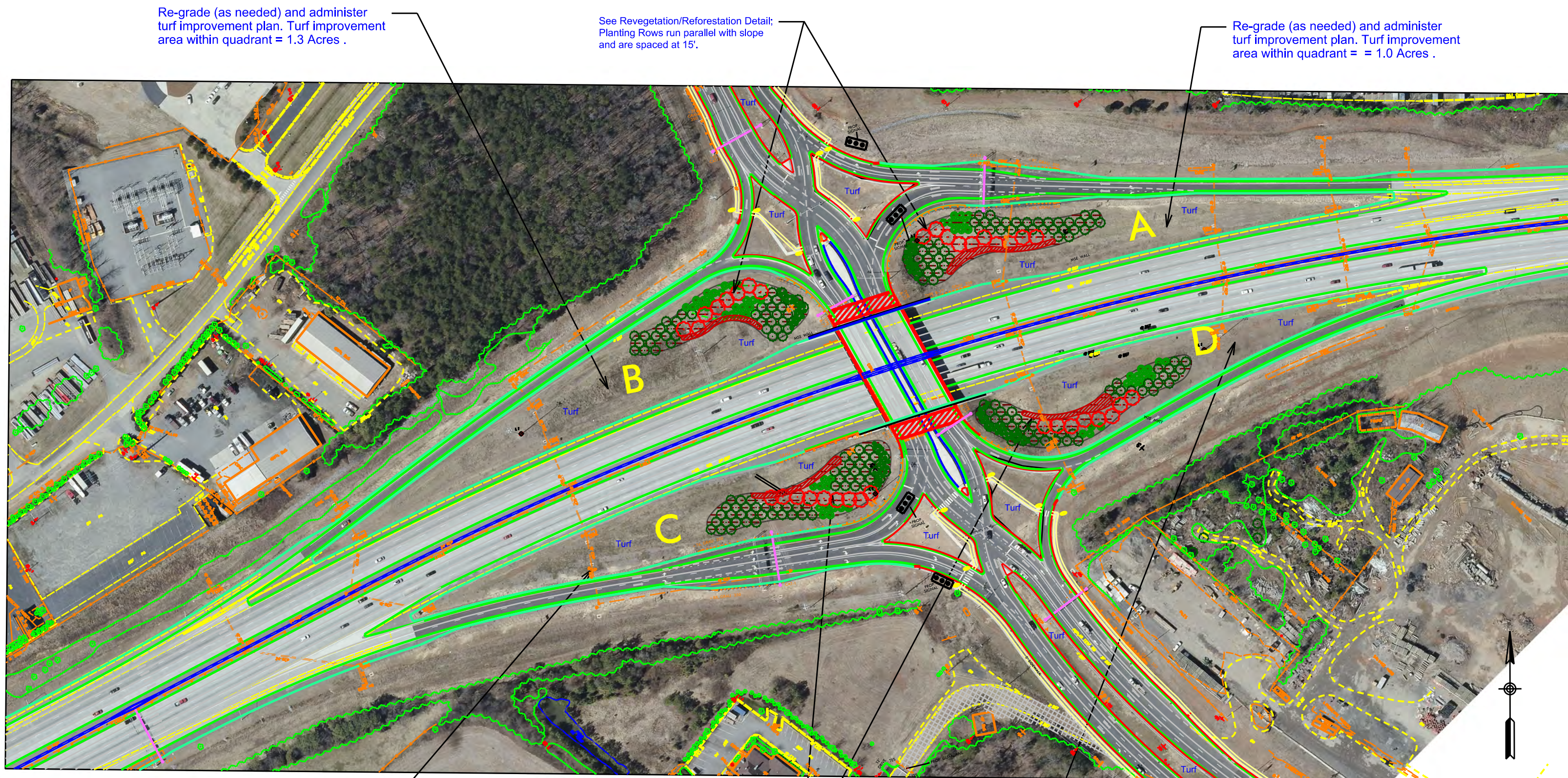
R.M. Kopetsky

sheet description:	prel. design date :	June/2016
	checked by & date :	
	final design date :	Dec/2017

Interchange Enhancements
I-85 @ Concord Mills



T.I.P. #	I-3803 B
WBS #	
FED I.D. #	
sheet no :	L2
total sheet no :	11



Re-grade (as needed) and administer turf improvement plan. Turf improvement area within quadrant = 1.3 Acres .

See Revegetation/Reforestation Detail; Planting Rows run parallel with slope and are spaced at 15'.

Re-grade (as needed) and administer turf improvement plan. Turf improvement area within quadrant = 1.0 Acres .

Re-grade (as needed) and administer turf improvement plan. Turf improvement area within quadrant = 1.0 Acres .

See Revegetation/Reforestation Detail; Planting Rows run parallel with slope and are spaced at 15'.

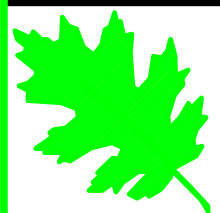
Re-grade (as needed) and administer turf improvement plan. Turf improvement area within quadrant = 1.2 Acres .

Turf Improvement Program includes noted Traffic Islands= 1.8 Acres



IMPLEMENT 2 YEAR TURF IMPROVEMENT PROGRAM FOR ALL DELINEATED INTERCHANGE AND TRAFFIC ISLAND AREAS

REFERENCE POPLAR TENT LANDSCAPE DETAIL PLAN (L7) FOR FURTHER INFORMATION



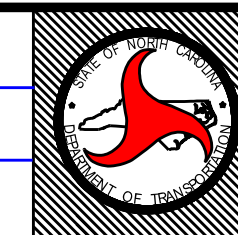
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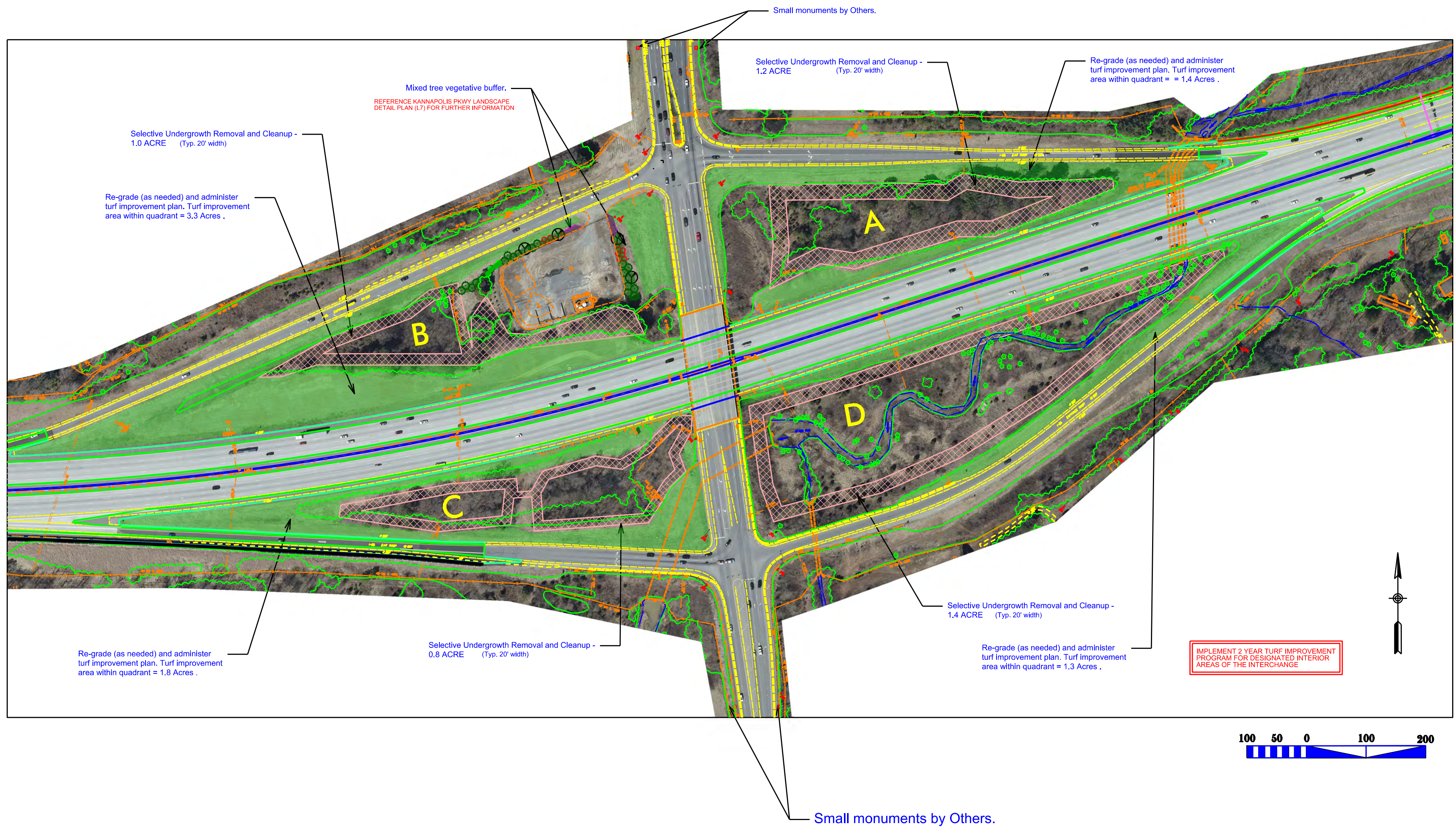
RN Kopetsky

prel. design date : June/2016
 checked by & date :
 final design date : Dec/2017

Interchange Enhancements
 I-85 @ Poplar Tent



T.I.P. # I-3803 B
 WBS #
 FED I.D. #
 sheet no : L3 total sheet no : 11



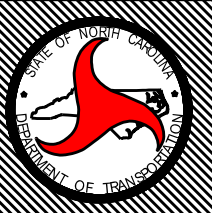

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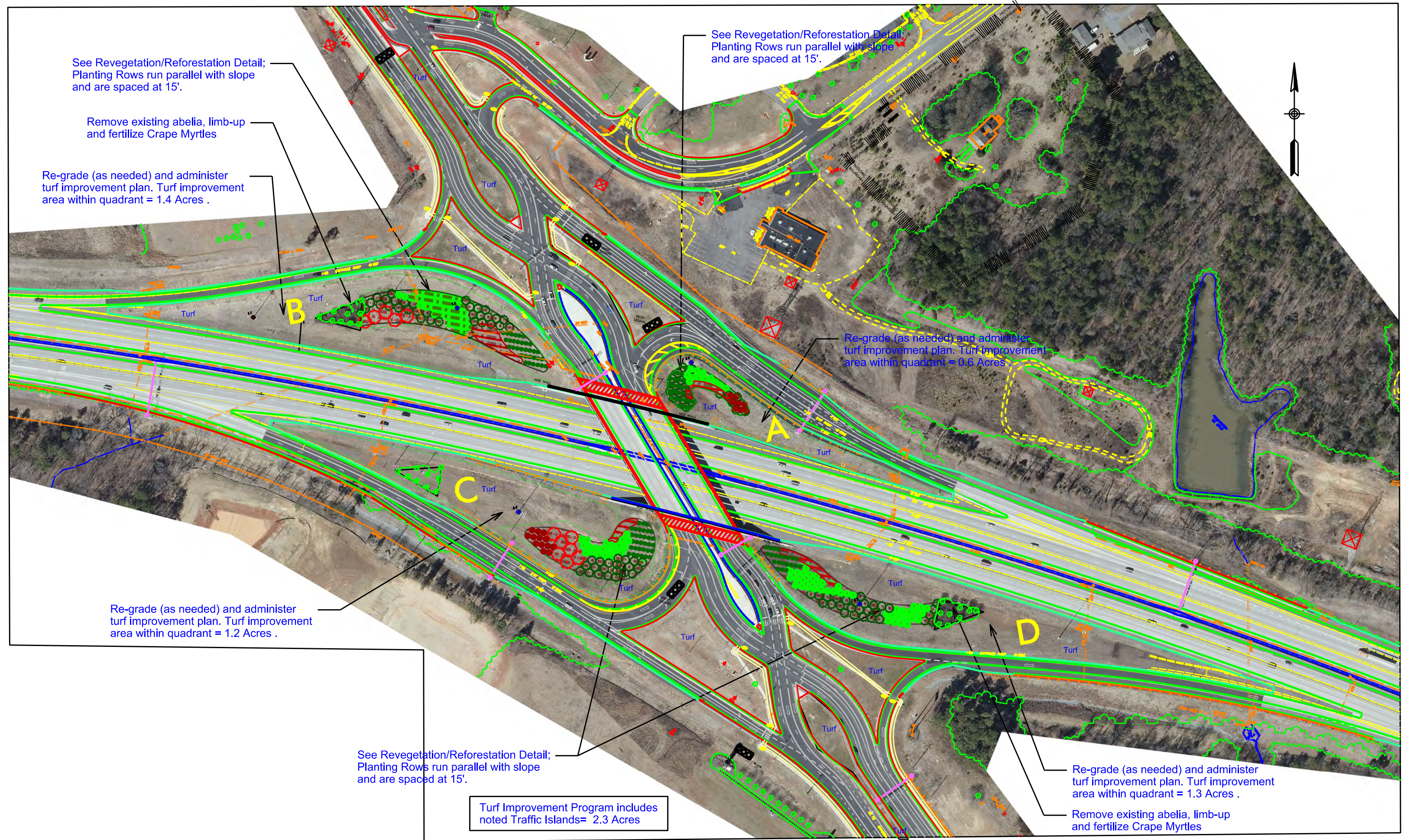
I-3803B I-85
Landscapes Development Plan
Concord, NC



sheet description:
 prel. design date : **June/2016**
 checked by & date :
 final design date : **Dec/2017**

Interchange Enhancements
I-85 @ Kannapolis Pkwy


 T.I.P. # **I-3803 B**
 WBS #
 FED I.D. #
 sheet no : **L4** total sheet no : **11**



IMPLEMENT 2 YEAR TURF IMPROVEMENT PROGRAM FOR ALL DELINEATED INTERCHANGE AND TRAFFIC ISLAND AREAS

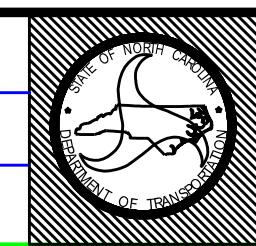
REFERENCE US 73 INTERCHANGE LANDSCAPE DETAIL PLAN (L8) FOR FURTHER INFORMATION

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I-3803B I-85
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 Concord, NC

RN Kopetaky

prel. design date :	June/2016	Interchange Enhancements
checked by & date :		I-85 @ US 73
final design date :	Dec/2017	

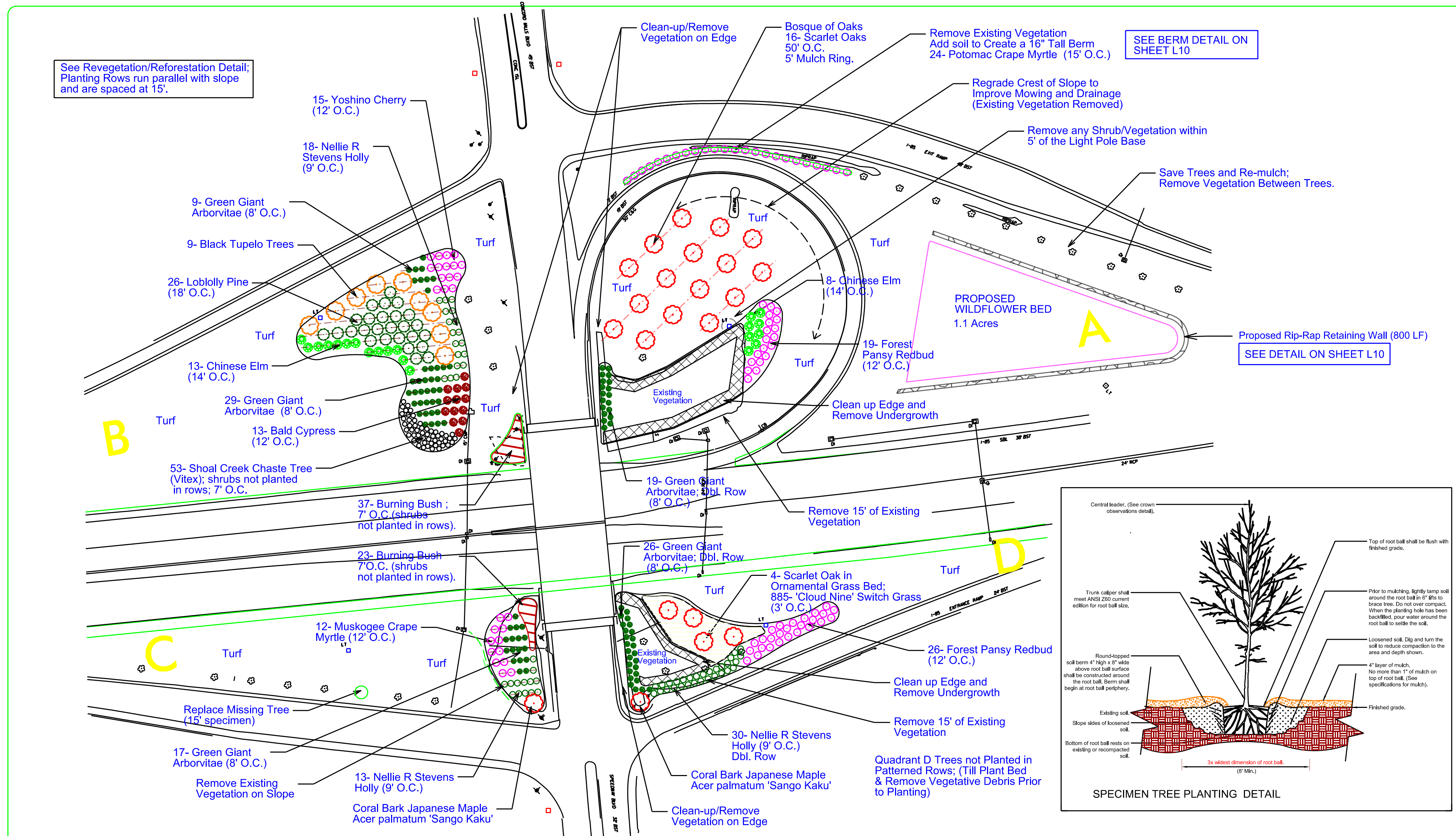
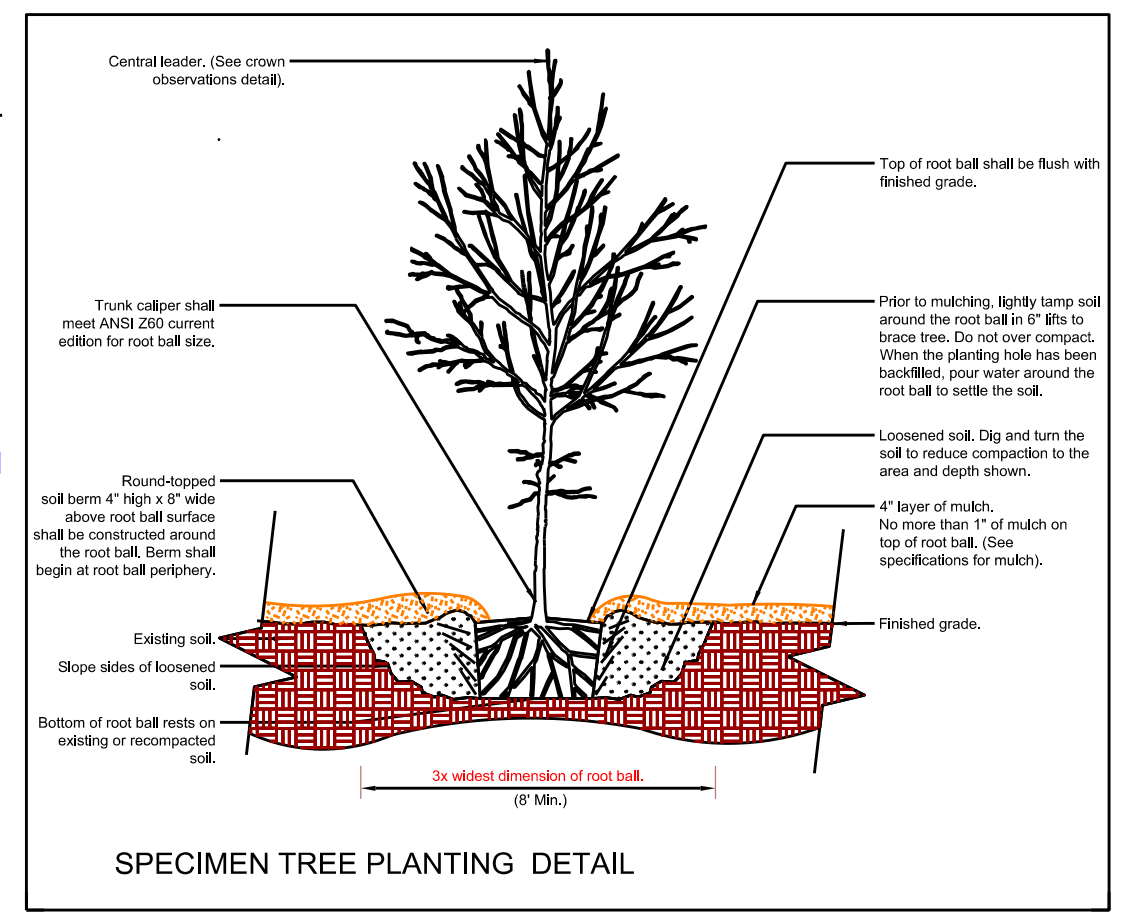


T.I.P. #	I-3803 B
WBS #	
FED I.D. #	
sheet no :	L5
total sheet no :	11


See Revegetation/Reforestation Detail;
Planting Rows run parallel with slope
and are spaced at 15'.

SEE BERM DETAIL ON
SHEET L10

SEE DETAIL ON SHEET L10

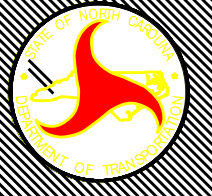


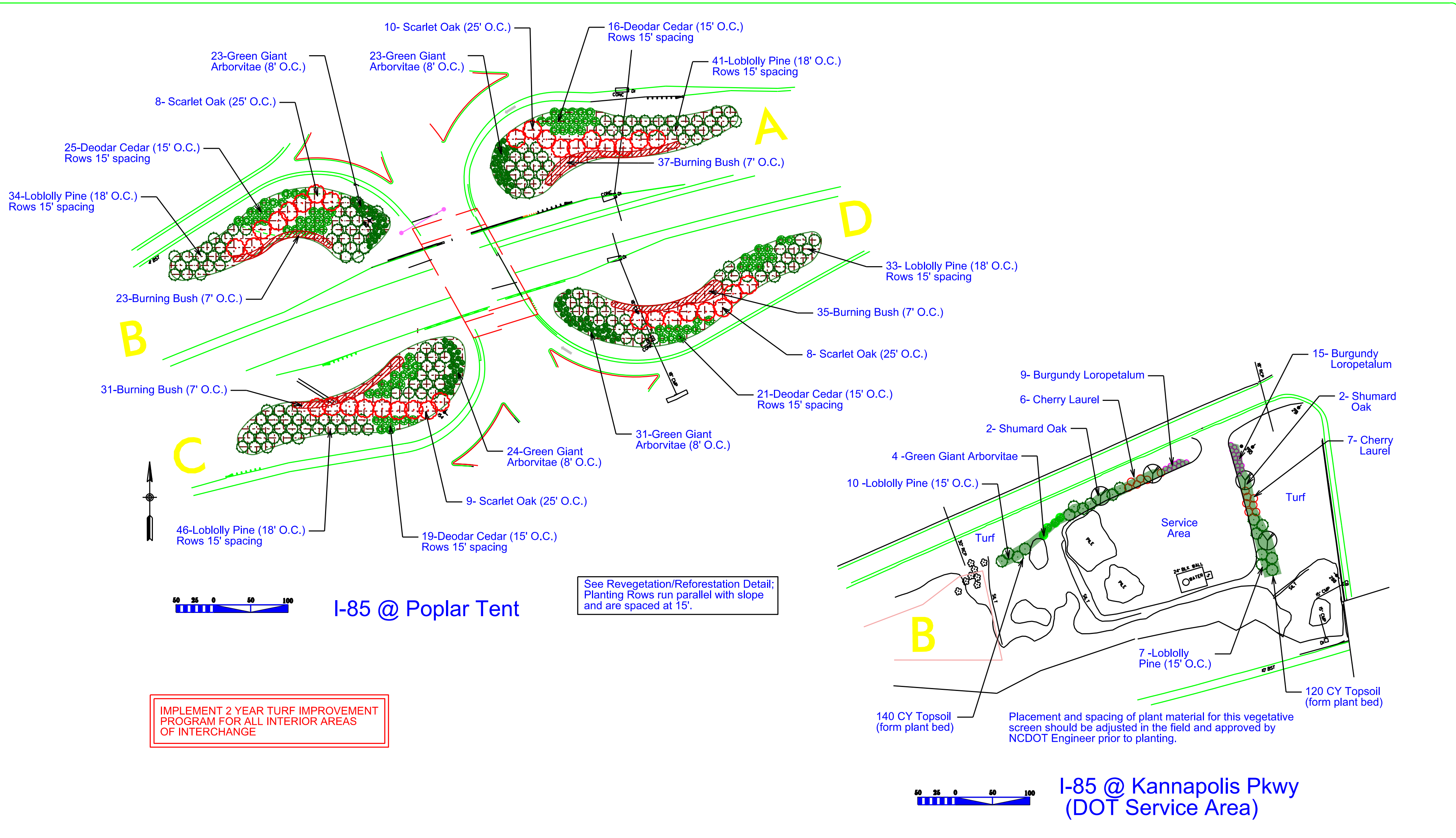
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landscape design & Development
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I-3803B I-85
Landscape Development Plan
Concord, NC


sheet description:
prel. design date: Rev. Nov 2017
checked by & date:
final design date: Dec 2017

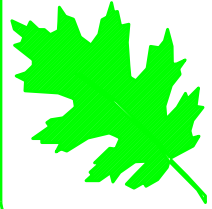
Interchange Enhancements
Concord Mills Interchange
Planting Plan Detail

 T.I.P. # I-3803 B
WBS #
FED I.D. #
sheet no: L6 total sheet no: 11



I-85 @ Poplar Tent

**I-85 @ Kannapolis Pkwy
(DOT Service Area)**

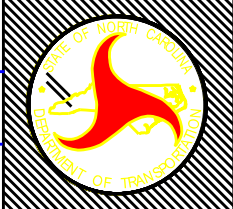


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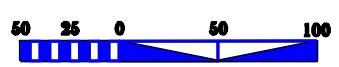
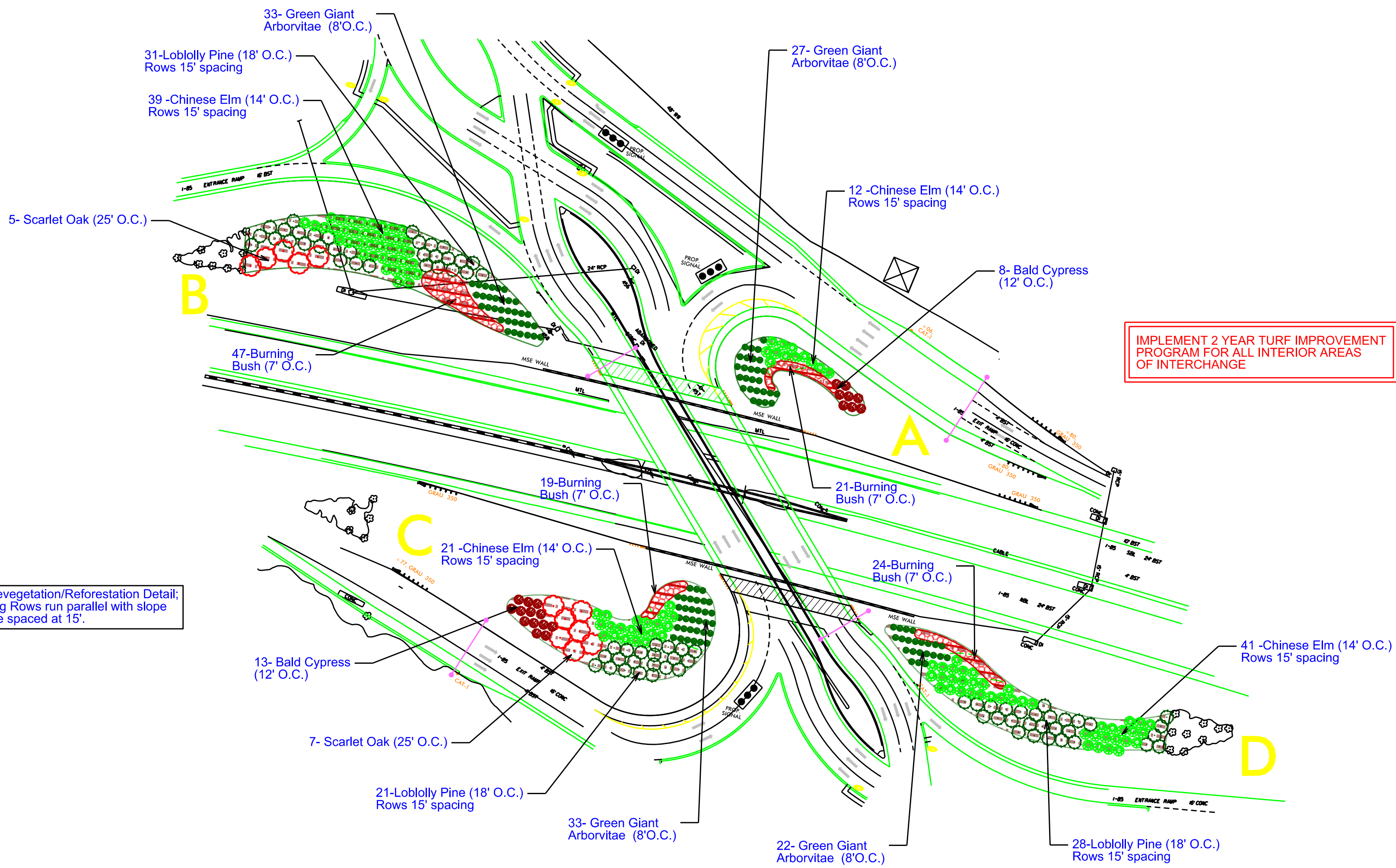
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Landscape Development Plan
Concord, NC

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prel. design date :	Rev. Nov 2017	Interchange Enhancements
checked by & date :		Poplar Tent & Kannapolis Pkwy
final design date :		Interchange Planting Details

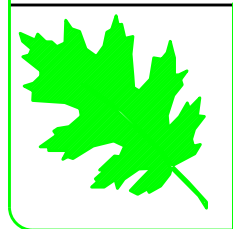


T.I.P. #	I-3803 B
WBS #	
FED I.D. #	
sheet no :	L7
total sheet no :	11



I-85 @ US 73

See Revegetation/Reforestation Detail; Planting Rows run parallel with slope and are spaced at 15'.



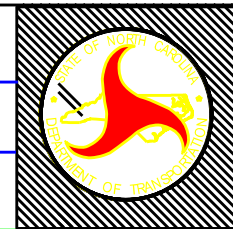
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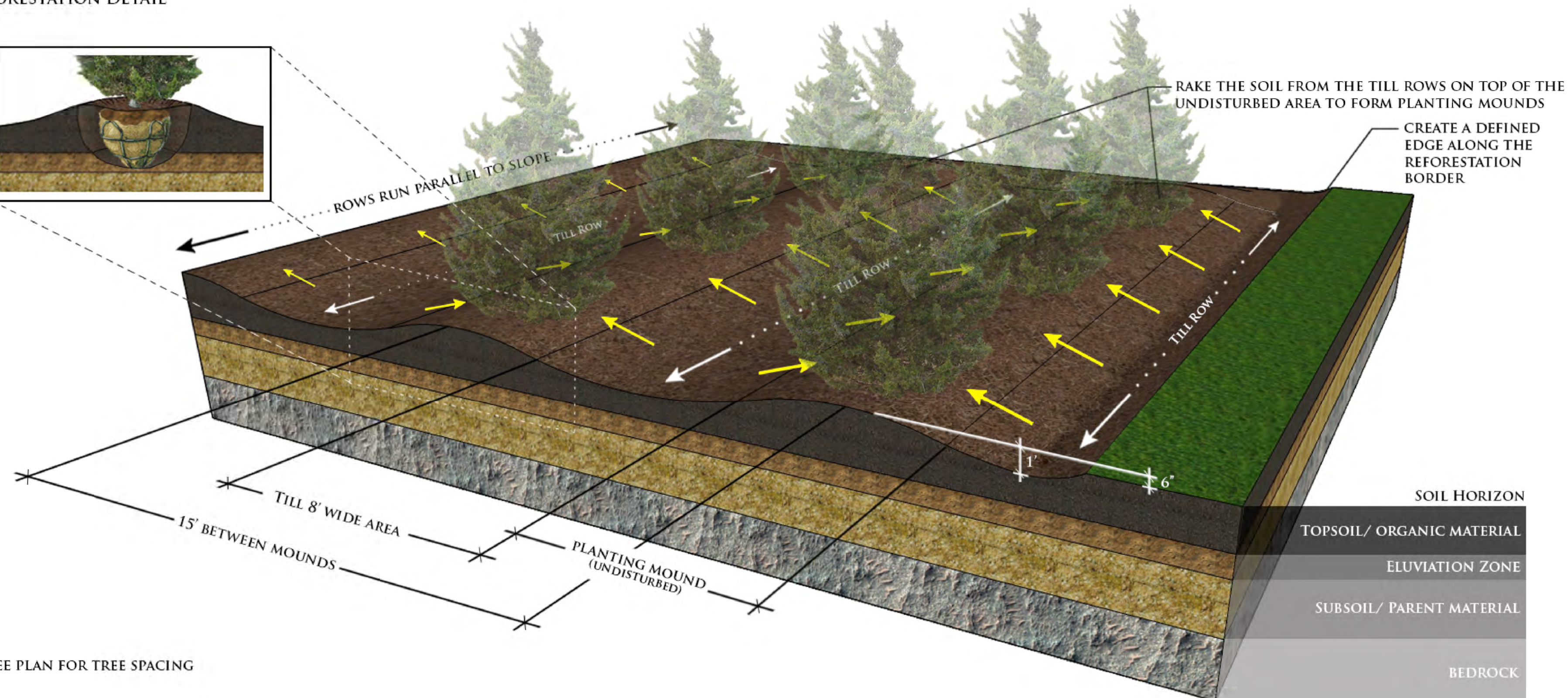
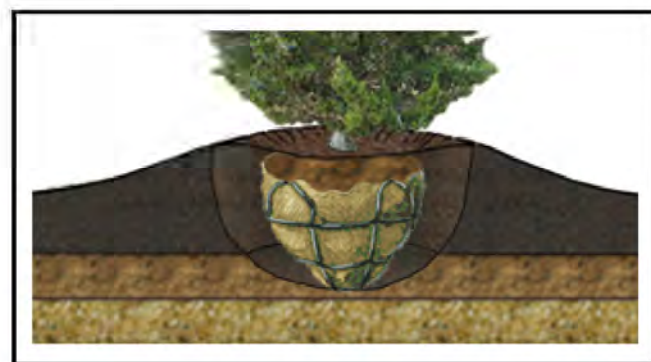
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	checked by & date :	
	final design date :	

Interchange Enhancements
US 73 Interchange
Planting Details



T.I.P. #	I-3803 B
WBS #	
FED I.D. #	
sheet no :	L8
total sheet no :	11

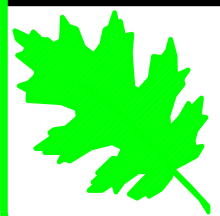
REFORESTATION DETAIL



SOIL HORIZON
TOPSOIL/ ORGANIC MATERIAL
ELUVIATION ZONE
SUBSOIL/ PARENT MATERIAL
BEDROCK

* SEE PLAN FOR TREE SPACING

* TREAT WITH PRE-EMERGENT & POST-EMERGENT HERBICIDE (AS DIRECTED BY THE ROADSIDE ENVIRONMENTAL ENGINEER)



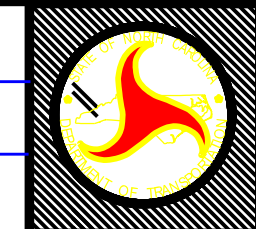
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http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

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 Landscape Development Plan
 Concord, NC

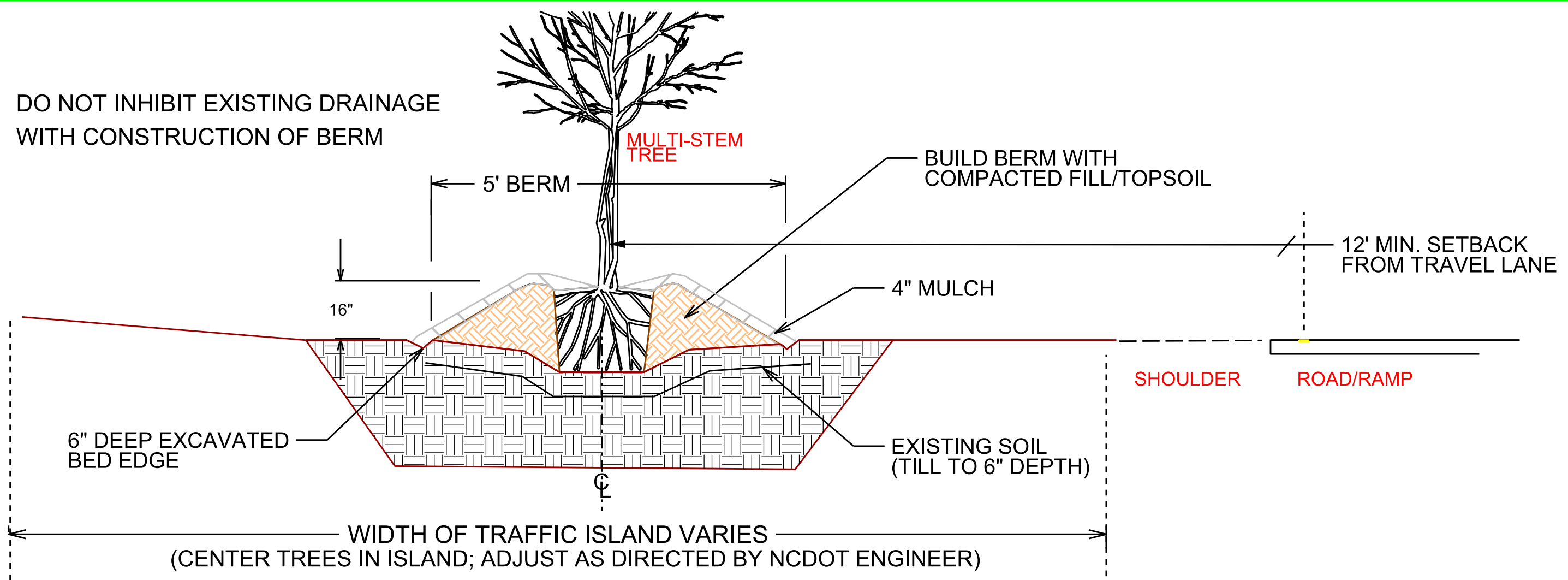
RN Kopetsky

prel. design date :	June/2016
checked by & date :	
final design date :	

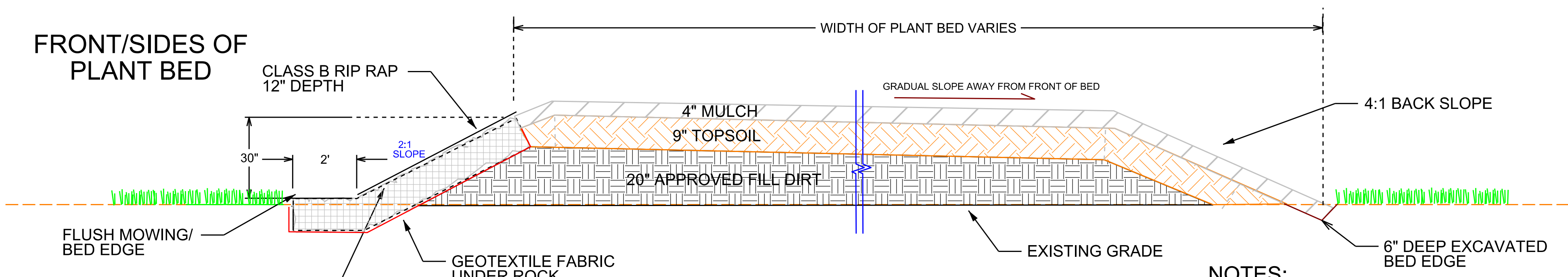
Interchange Enhancements
Revegetaion/Reforestation
Detail Schematic



T.I.P. #	I-3803 B
WBS #	
FED I.D. #	
sheet no :	L9
total sheet no :	11



BERM SECTION- CONCORD BLVD RAMP PLANTING
NOT TO SCALE



RIP-RAP RETAINING WALL RAISED PLANT BED SECTION
NOT TO SCALE

- NOTES:**
- 1) FRONT OF BED FACING POINT WHERE RAMP MEETS MAIN ROAD.
 - 2) PRIOR TO CONSTRUCTION, A SAMPLE OF THE STONE WALL TO BE BUILT FOR ENGINEER REVIEW AND APPROVAL.

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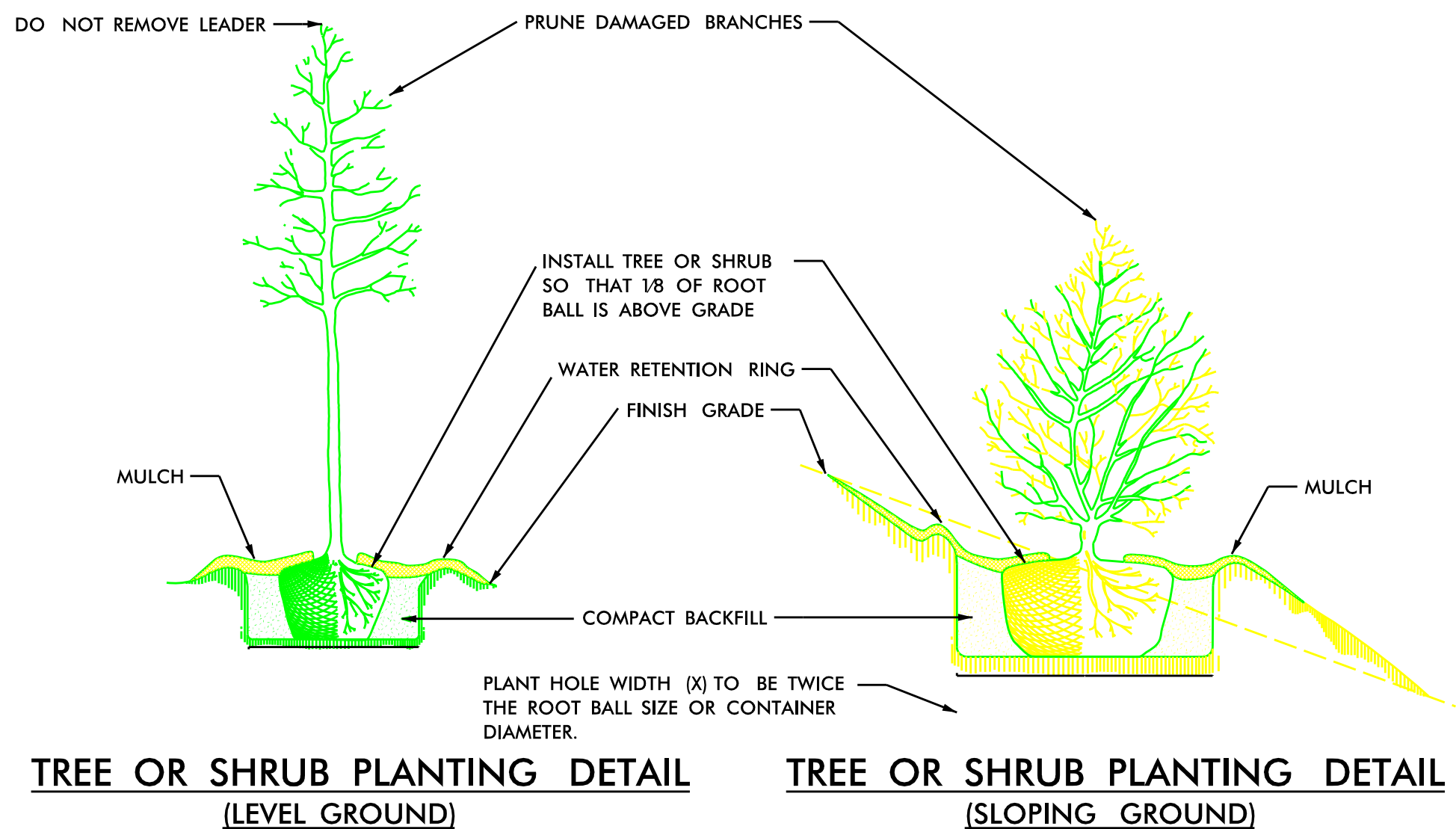
I-3803B I-85
Landscape Development Plan
Concord, NC

RN Kopetsky

prel. design date :	May/2017
checked by & date :	Rev Jan/2018
final design date :	

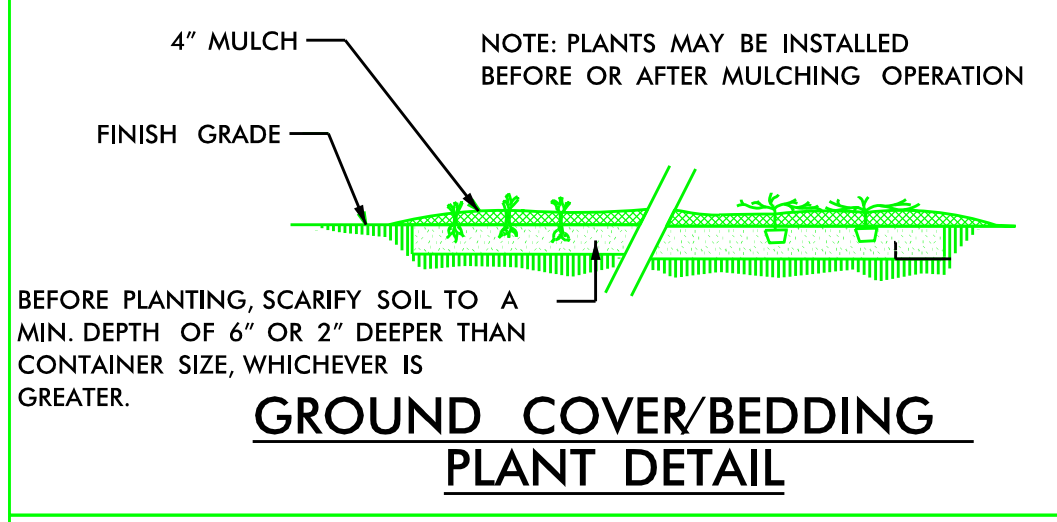
Stone Edged Raised Plant
Bed & Berm Planting
Details

T.I.P. #	I-3803 B
WBS #	
FED I.D. #	
sheet no :	L10
total sheet no :	11

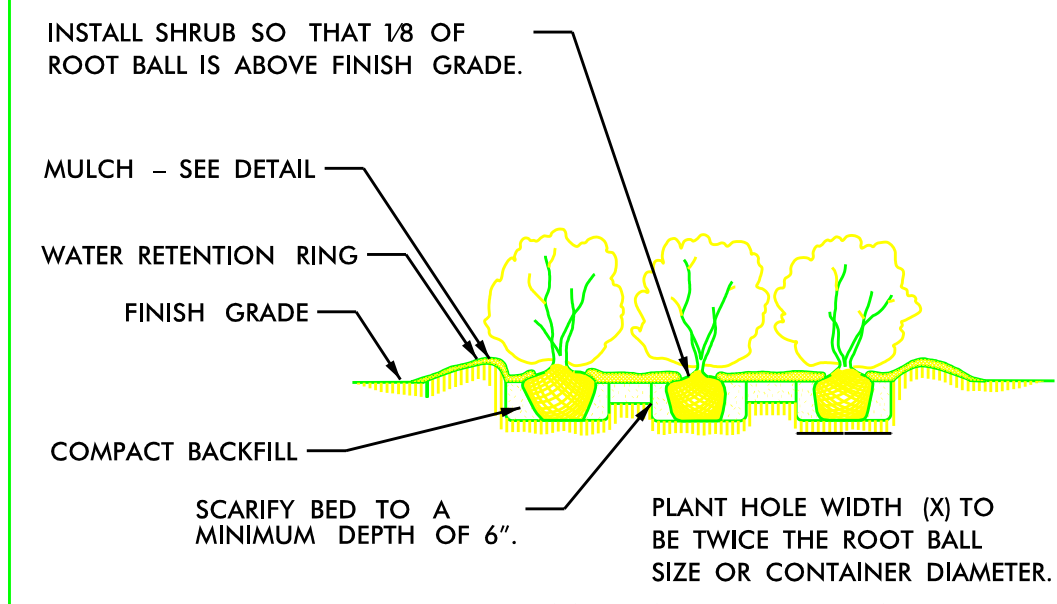


TREE OR SHRUB PLANTING DETAIL
(LEVEL GROUND)

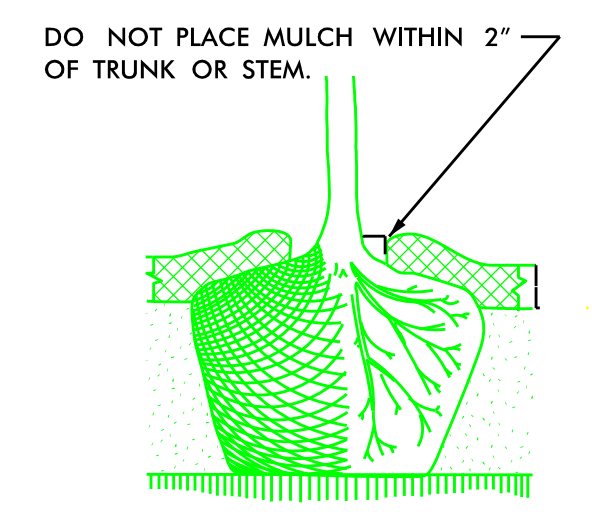
TREE OR SHRUB PLANTING DETAIL
(SLOPING GROUND)



GROUND COVER/BEDDING PLANT DETAIL

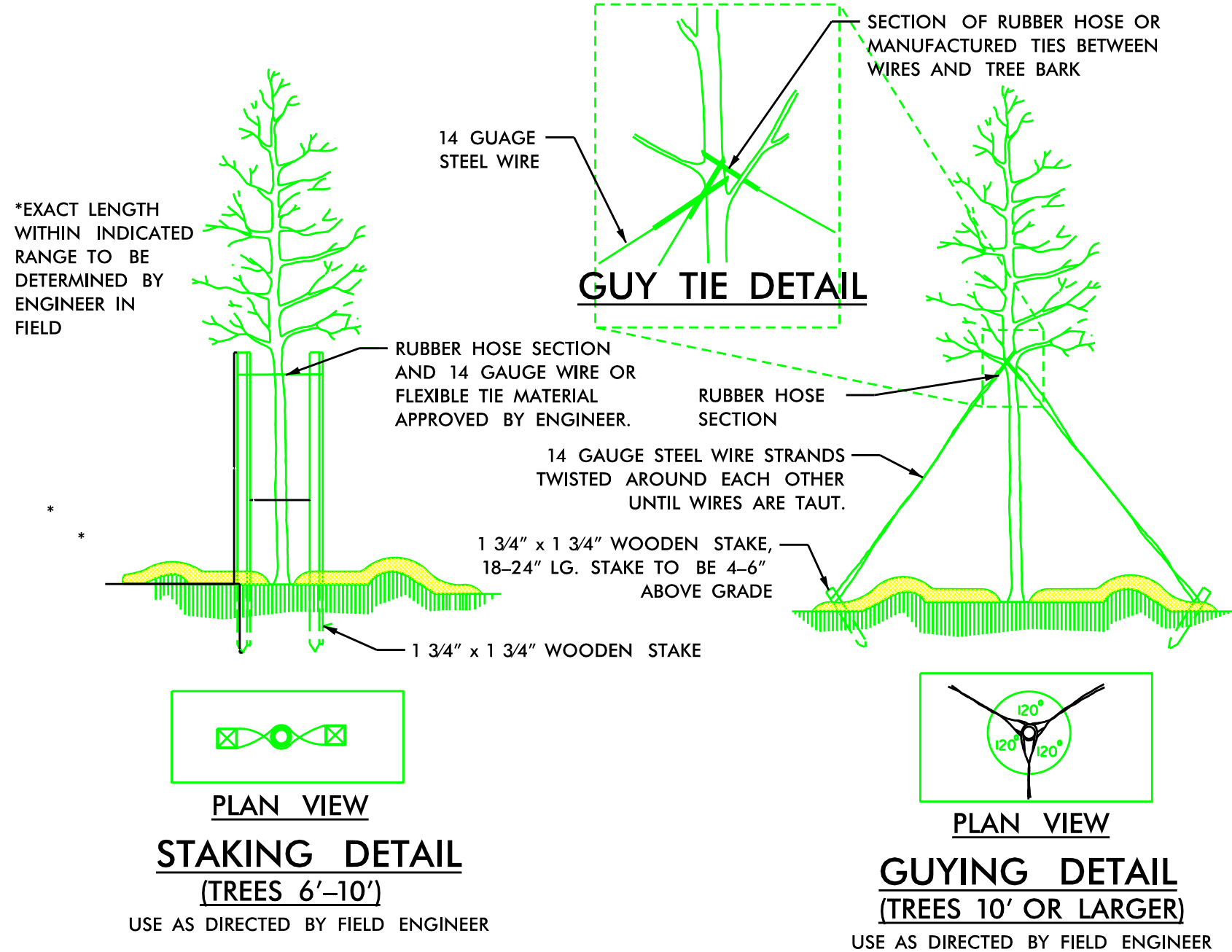


SHRUB BED PLANTING DETAIL



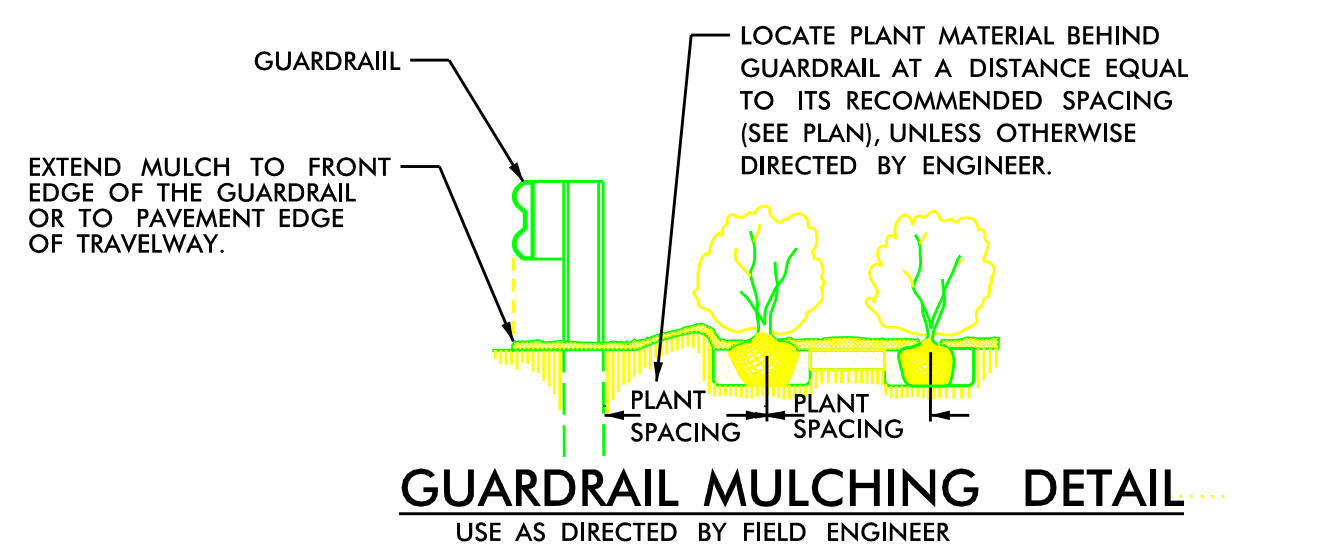
MULCH DETAIL

- NOTES:**
- 🌿 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.

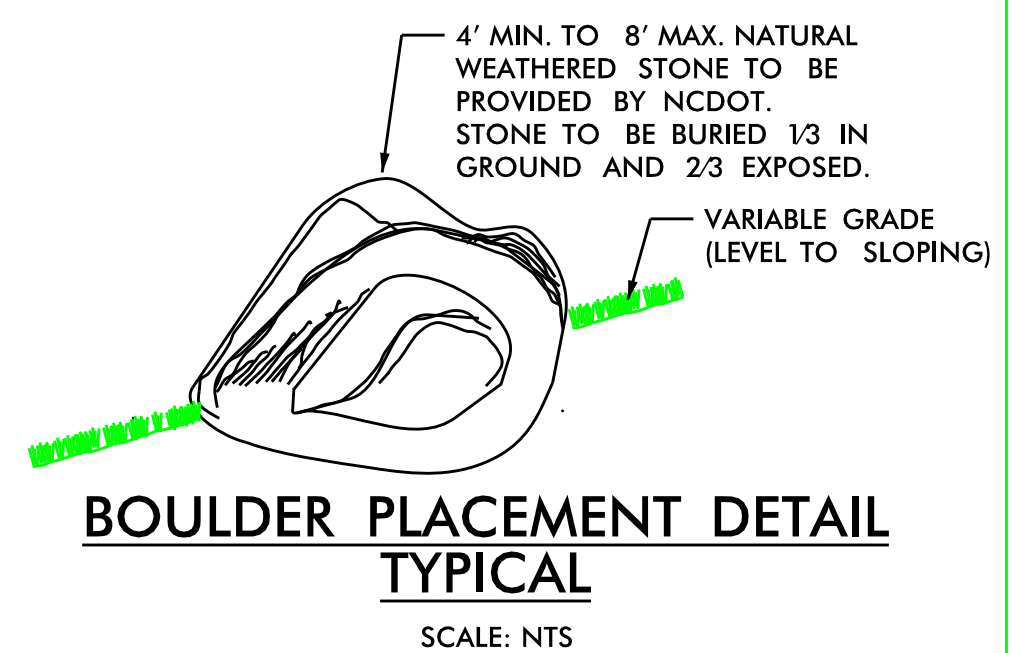


STAKING DETAIL
(TREES 6'-10')

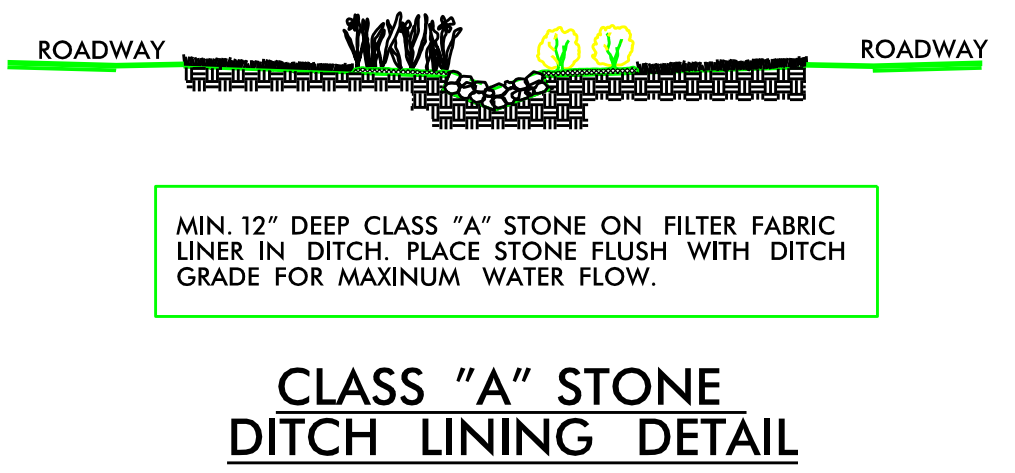
GUYING DETAIL
(TREES 10' OR LARGER)



GUARDRAIL MULCHING DETAIL



BOULDER PLACEMENT DETAIL
TYPICAL



CLASS "A" STONE DITCH LINING DETAIL

PROJECT TITLE: **CONCORD NC Interchange Landscape Enhancement Cabarrus County**
 Plans Drawn By: **JK**
 Scale:
 Date: **12 / 18 / 2017**
 Sheet Description: **Planting Details**
 T.I.P. #
 Sheet #
11 OF 11

North Carolina Department of Transportation
Roadside Environmental Unit
Aesthetic Engineering & Landscape Architectural Design