

PROJECT: PINEHURST TRAFFIC CIRCLE PLANTING\* FALL 2015

# STATE OF NORTH CAROLINA

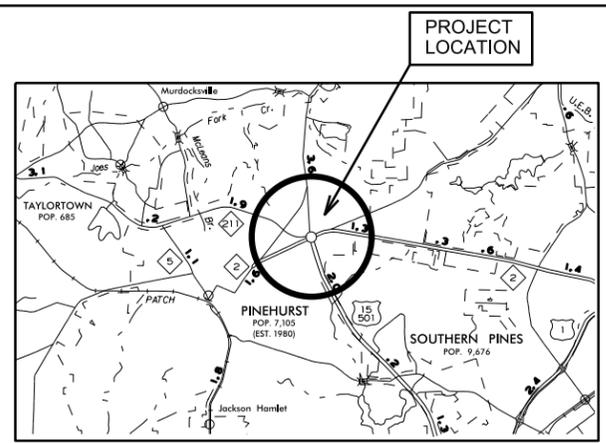
## DIVISION OF HIGHWAYS

# MOORE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	46305.3.2	1	4

Notes:  
Contractor and Engineer will coordinate delivery of the annuals prior to installation. Proposed time schedule and desired delivery locations will be agreed upon prior to initiation of work.

annuals delivered to site will include 10% extra of each annual Variety (to be used as replacement plant material as determined or directed by NCDOT engineer).



VICINITY MAP

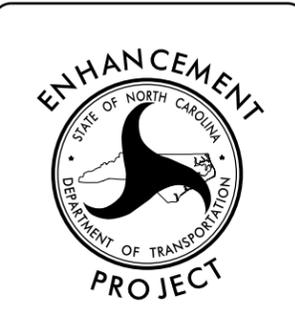
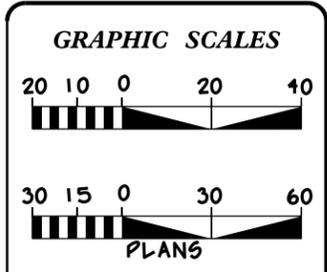
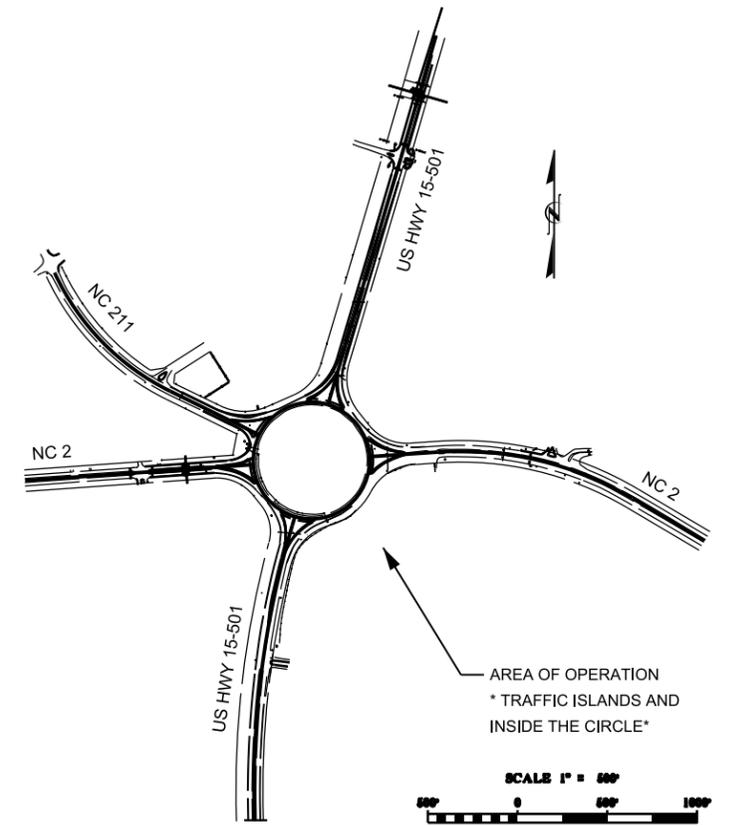
LOCATION: PINEHURST TRAFFIC CIRCLE PLANTING  
TYPE OF WORK: 2015 Fall ANNUAL PLANTINGS

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	→ SS →
Water Line	---
Gas Line	---
Picnic Shelter	□
Regeneration	---
Reforestation	---
Large Deciduous Tree	○
Evergreen Tree	●
Small or Flowering Tree	○
Shrubs	○○○○
Planting Bed	---

Summary of Quantities

A) PLANT MATERIAL - Growing Contract (by others)						
Quantity	Unit	Key	Plant Name	Common name	Furnish	Spacing
68	Each Flat	DO	Deep Orange' Spring Matrix Pansy	Deep Orange Pansy	Flat of 18, Well rooted (1801)	8" O.C.
100	Each Flat	DP	Daffodil Mixture' Spring Matrix Pansy	Daffodil Mixture Pansy	Flat of 18, Well rooted (1801)	8" O.C.
69	Each Flat	LP	Lemon' Spring Matrix Pansy	Lemon Pansy	Flat of 18, Well rooted (1801)	8" O.C.
48	Each Flat	PP	Purple' Spring Matrix Pansy	Purple Matrix Pansy	Flat of 18, Well rooted (1801)	8" O.C.
136	Each Flat	PSP	Pink Shades' Spring Matrix Pansy	Pink Shades Pansy	Flat of 18, Well rooted (1801)	8" O.C.
57	Each Flat	SP	Scarlet' Spring Matrix Pansy	Scarlet Matrix Pansy	Flat of 18, Well rooted (1801)	8" O.C.
113	Each Flat	TP	Tricolour Mixture' Spring Matrix Pansy	Tricolour Pansy	Flat of 18, Well rooted (1801)	8" O.C.
2	EA		Delivery			
B) INSTALLATION						
Quantity	Unit	Item Description				
1	LS	Traffic Control				
543	SY	Plant Bed Preparation				
9,659	EA	Installation of Annuals, 18 per Flat				
4	EA	Plant Bed Maintenance				

TOTAL number of ANNUALS (as noted above) include an additional 10% for replacements (TO BE used ONLY as directed by the ncdot engineer)



INDEX OF SHEETS :

TITLE, DESCRIPTION, & SUMMARY OF QUANTITIES .....	L1
CIRCLE LAYOUT & BED QUANTITIES .....	L2
DETAIL A&B PLAN.....	L3
DETAIL C, D, & E PLAN.....	L4

Prepared In the Office of:

**ROADSIDE ENVIRONMENTAL UNIT**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
RALEIGH, N.C.

**2012 STANDARD SPECIFICATIONS**

Drawn By: RNK    Design Section    June-2015

NOTES:

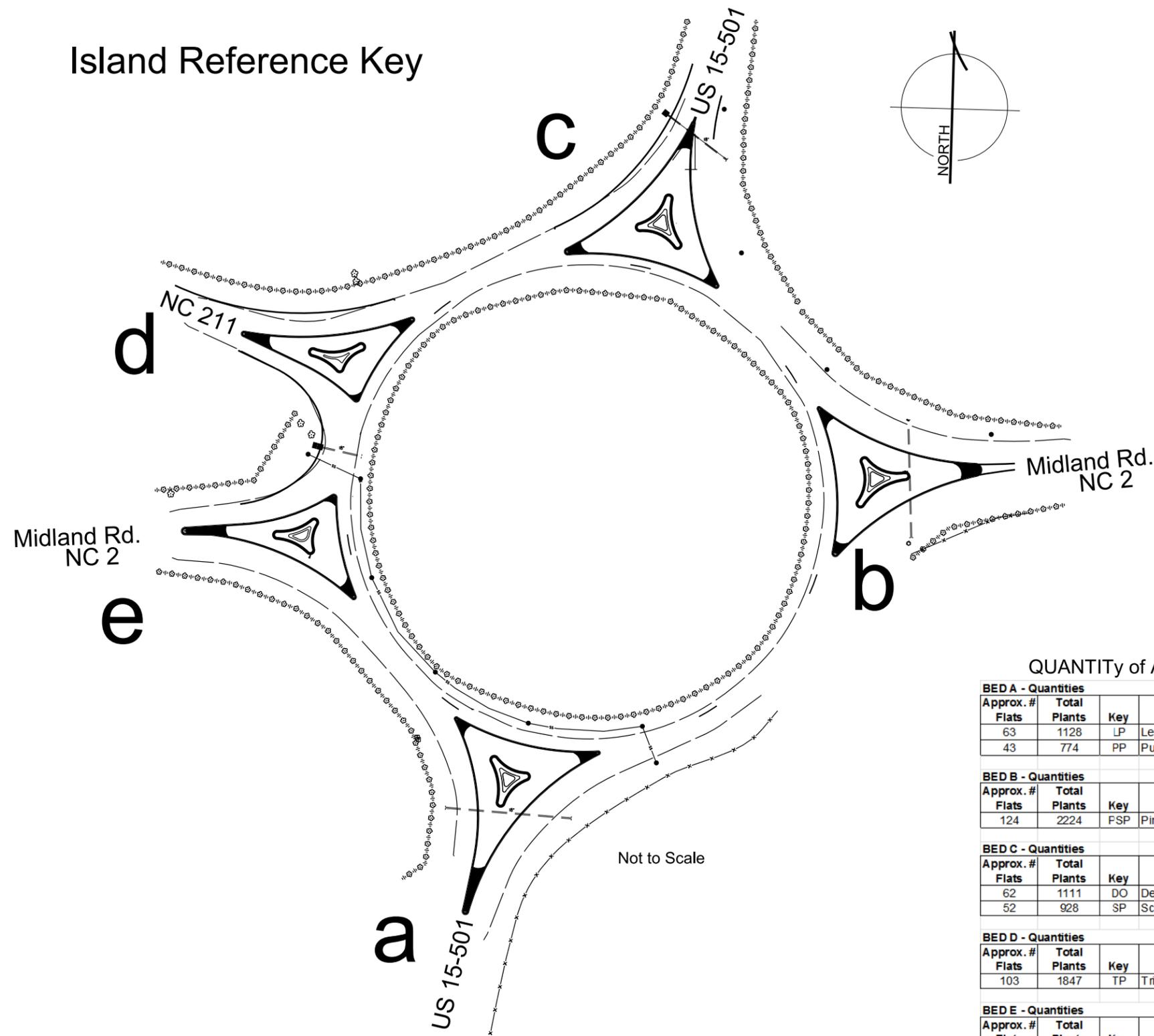
CONTRACTOR SHALL CONSULT THE DIVISIONS SPECIAL PROVISIONS FOR PROCEDURES FOR PREPARING ANNUAL BEDS, INSTALLATION, FUMIGATION AND PLANT BED AMENDMENTS. NO PROGRESS OF ANNUAL DEVELOPMENT OR INSTALLATION SHALL TAKE PLACE UNTIL THESE SPECIAL PROVISIONS ARE REVIEWED AND AGREED UPON.

ALL ANNUALS SHALL BE SPACED ON 12" AND/OR 8" CENTERS. ANNUALS SHALL BE SET AT A PROPER POSITION AS REGARDS TO DEPTH TO PLANT TO SOIL LEVEL. SOIL SHALL BE FIRMLY PLACED AROUND PLANTS AND MULCH. 2" OF SOIL AMENDMENTS SHALL BE ADDED TO EACH PLANT BED AS DIRECTED BY THE ENGINEER IN THE FIELD. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE PROPER DELIVERY DATES AND QUANTITIES OF ANNUALS TO THE PLANT BED AREAS.

BEDDING PLANTS SHALL BE WATERED IN IMMEDIATELY FOLLOWING PLANTING OPERATION. NO PORTION OF PLANTING SHALL GO UN WATERED OVERNIGHT. (WATER IN SAME DAY AS PLANT INSTALLATION)

18-SEP-2015 10:44 AM C:\Users\jacobc\Documents\Projects\2015 Fall Annuals.dgn

# Island Reference Key



## QUANTITY of Annuals per Plant Bed

BED A - Quantities						
Approx. # Flats	Total Plants	Key	Plant Name	Common Name	Furnish	Spacing
63	1128	LP	Lemon' Spring Matrix Pansy	Lemon Pansy	Flat of 18, Well rooted (1801)	8" O.C.
43	774	PP	Purple' Spring Matrix Pansy	Purple Matrix Pansy	Flat of 18, Well rooted (1801)	8" O.C.
BED B - Quantities						
Approx. # Flats	Total Plants	Key	Plant Name	Common Name	Furnish	Spacing
124	2224	FSP	Pink Shades' Spring Matrix Pansy	Pink Shades Pansy	Flat of 18, Well rooted (1801)	8" O.C.
BED C - Quantities						
Approx. # Flats	Total Plants	Key	Plant Name	Common Name	Furnish	Spacing
62	1111	DO	Deep Orange' Spring Matrix Pansy	Deep Orange Pansy	Flat of 18, Well rooted (1801)	8" O.C.
52	928	SP	Scarlet' Spring Matrix Pansy	Scarlet Matrix Pansy	Flat of 18, Well rooted (1801)	8" O.C.
BED D - Quantities						
Approx. # Flats	Total Plants	Key	Plant Name	Common Name	Furnish	Spacing
103	1847	TP	Tricolour Mixture' Spring Matrix Pansy	Tricolour Pansy	Flat of 18, Well rooted (1801)	8" O.C.
BED E - Quantities						
Approx. # Flats	Total Plants	Key	Plant Name	Common Name	Furnish	Spacing
91	1637	DP	Daffodil Mixture Pansy	Lemon Yellow Matrix Pansy	Flat of 18, Well rooted (1801)	8" O.C.

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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/](http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/)

**Pinehurst Traffic Circle**  
 2015 Fall Annual Plantings  
 contract #:

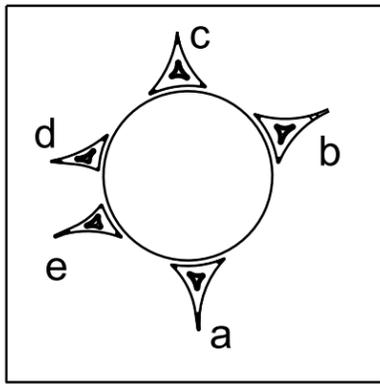
engineer  
  
 B. Kopetsky

prel. design date : Jun/2015  
 checked by & date :  
 final design date :

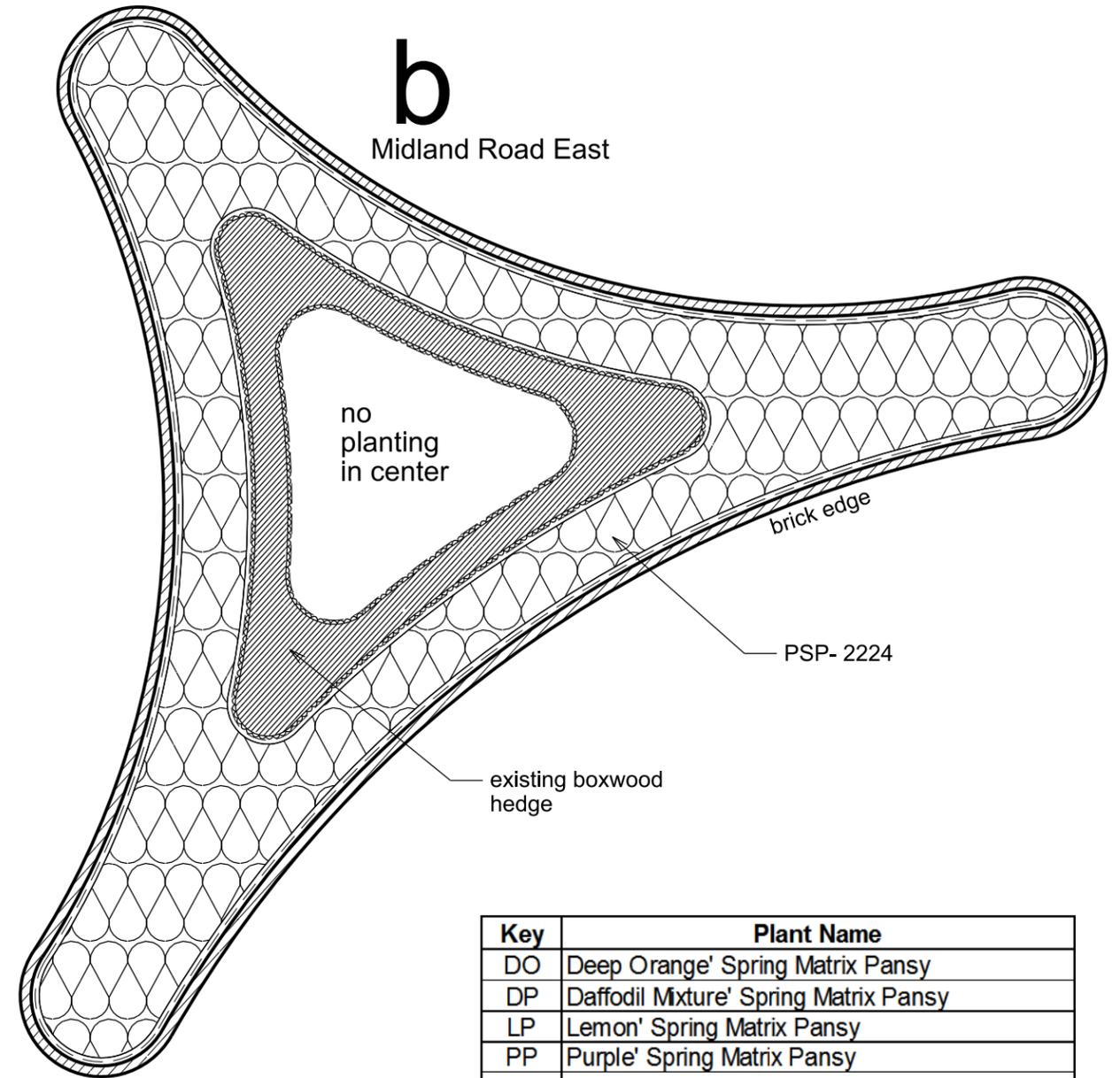
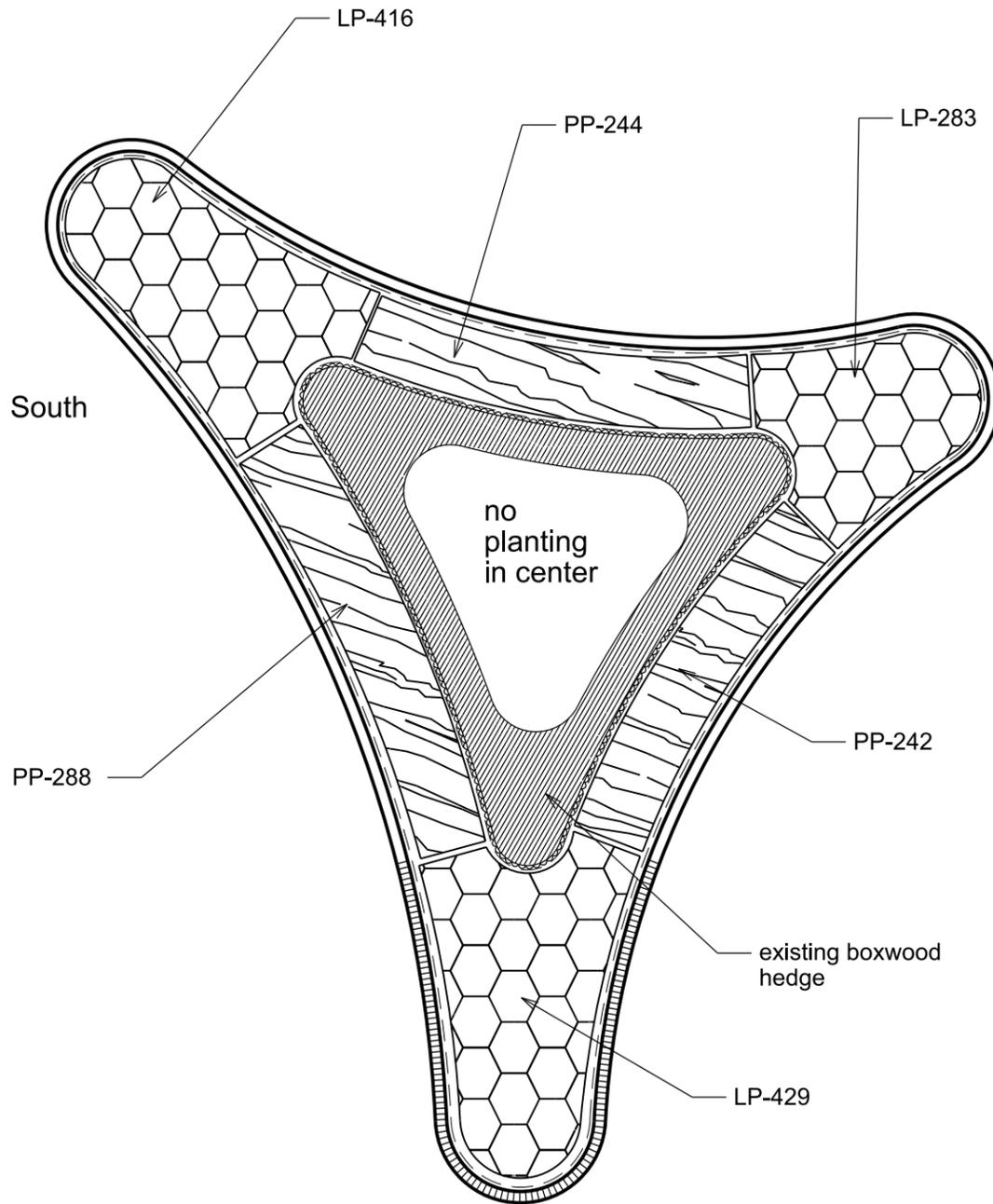
traffic circle islands  
 Circle Reference Key



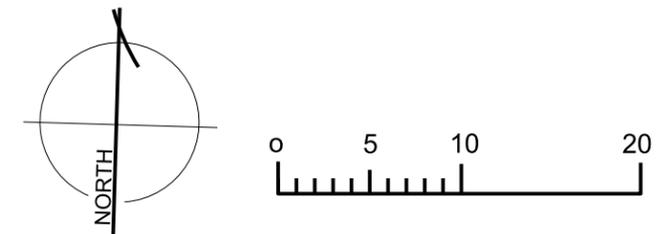
T.I.P. # ER-5600HA  
 WBS # 46305.3.2  
 FED I.D. # STP-0829(006)  
 sheet no: 2 total sheet no: 4



**a**  
US 15-501 South



Key	Plant Name
DO	Deep Orange' Spring Matrix Pansy
DP	Daffodil Mixture' Spring Matrix Pansy
LP	Lemon' Spring Matrix Pansy
PP	Purple' Spring Matrix Pansy
PSP	Pink Shades' Spring Matrix Pansy
SP	Scarlet' Spring Matrix Pansy
TP	Tricolour Mixture' Spring Matrix Pansy



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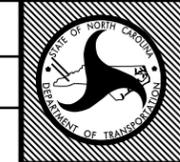


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ph: 919-733-2920 fax: 919-733-9810  
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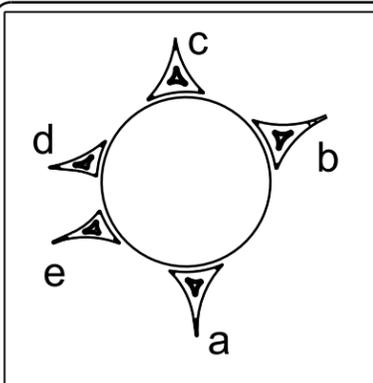
**Pinehurst Traffic Circle**  
2015 Fall Annual Plantings  
contract #:

preu engineer  
**B. Kopetsky**

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	final design date:	Island A & B



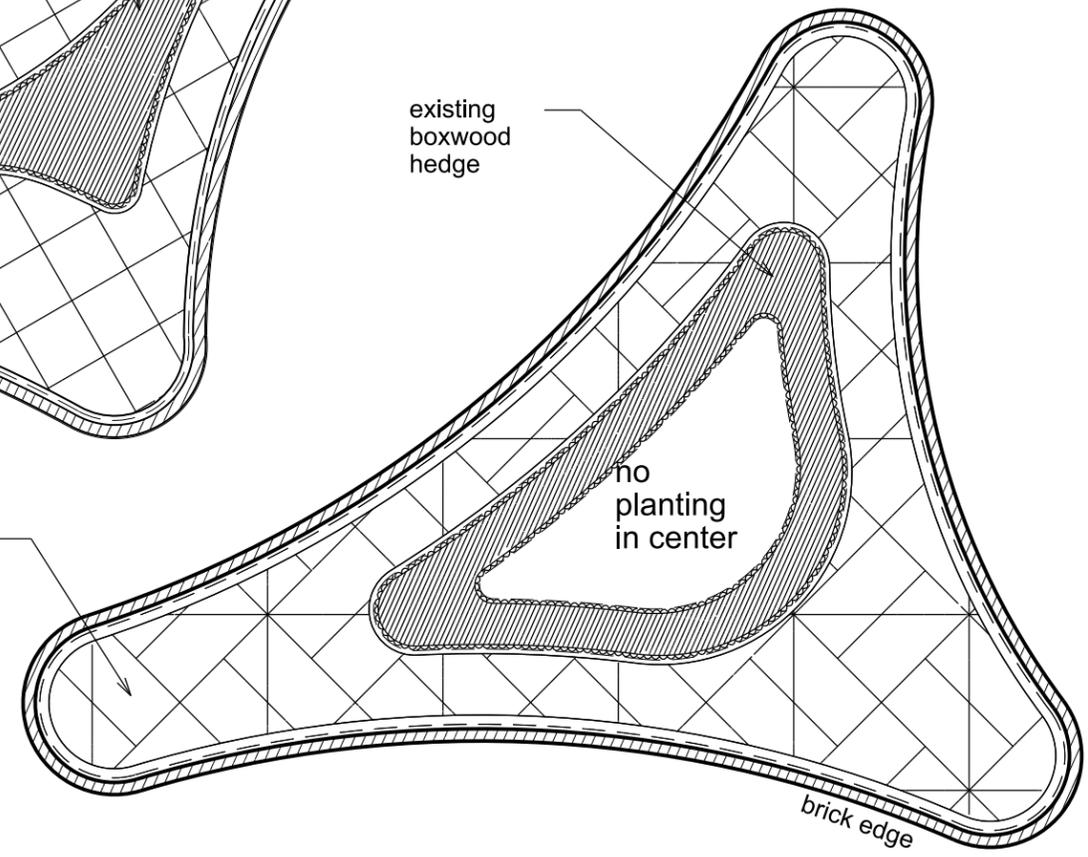
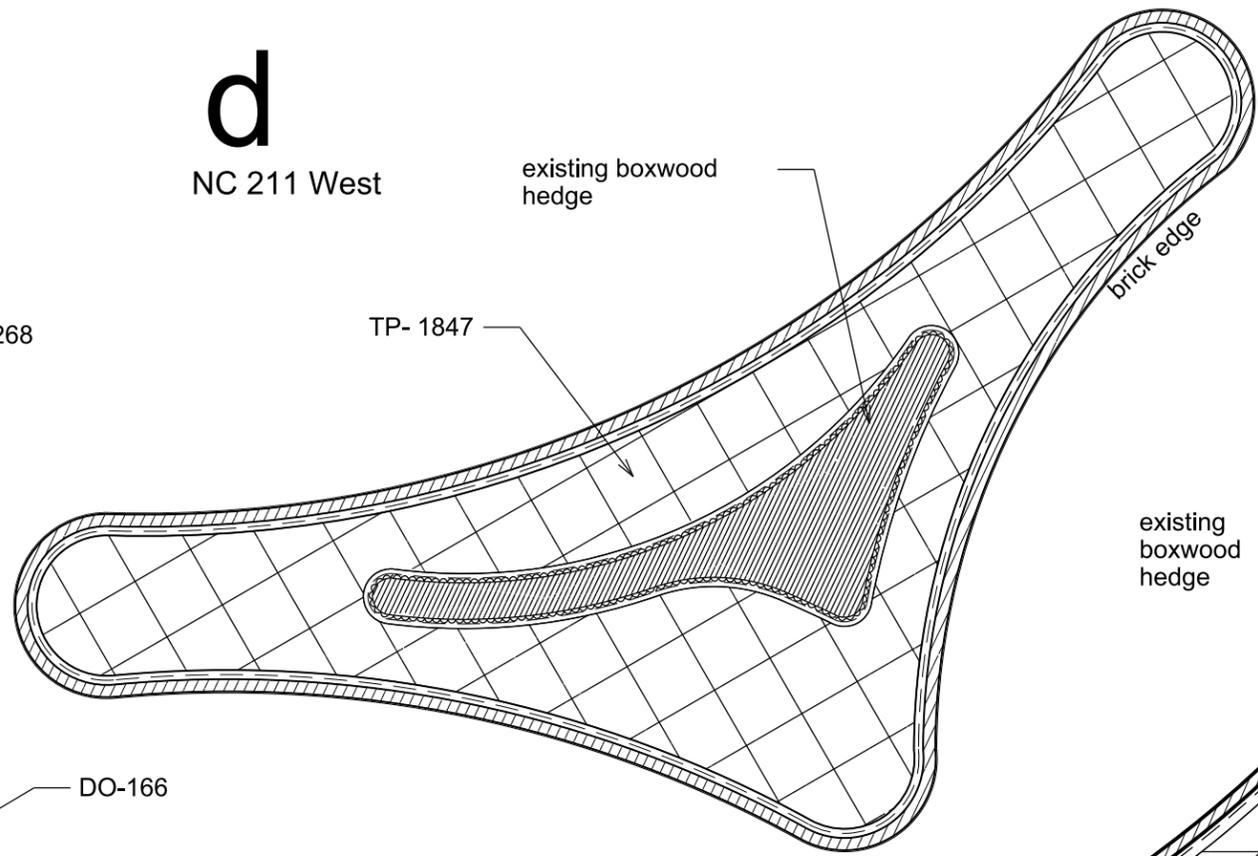
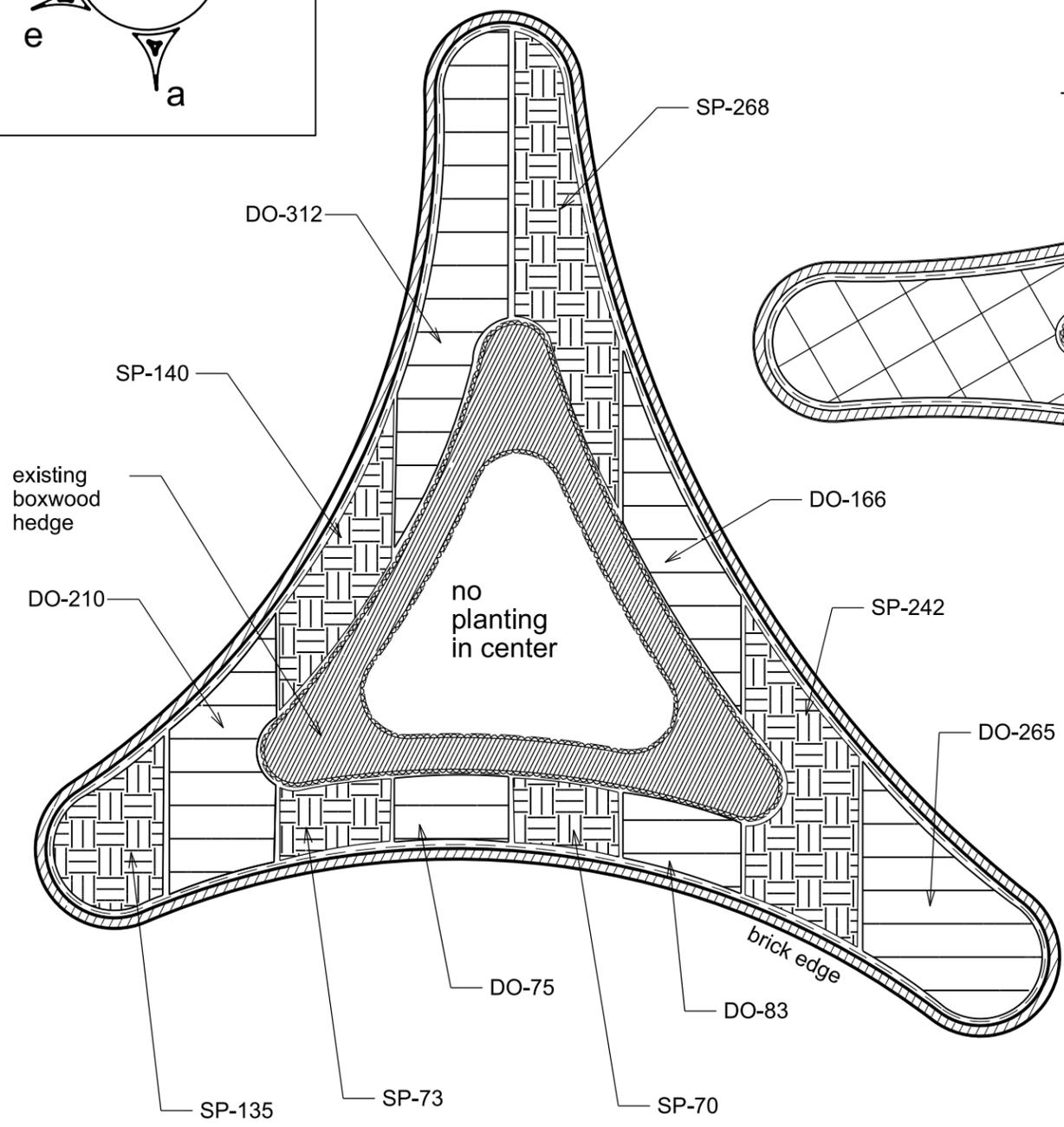
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3	4



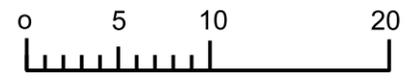
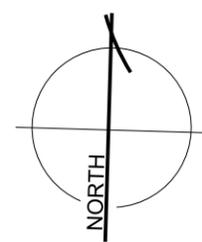
**c**  
US 15-501 North

**d**  
NC 211 West

**e**  
Midland Road West



Key	Plant Name
DO	Deep Orange' Spring Matrix Pansy
DP	Daffodil Mixture' Spring Matrix Pansy
LP	Lemon' Spring Matrix Pansy
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PSP	Pink Shades' Spring Matrix Pansy
SP	Scarlet' Spring Matrix Pansy
TP	Tricolour Mixture' Spring Matrix Pansy



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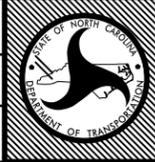
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 2015 Fall Annual Plantings  
 contract #:

preu engineer  
**B. Kopetsky**

sheet description:  
 prel. design date: Jun/2015  
 checked by & date:  
 final design date:

traffic circle islands  
 Interior Plant Beds  
 IslaNd C, D, & E



T.I.P. # ER-5600HA  
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 FED I.D. # STP-0829(006)  
 sheet no: 4 total sheet no: 4

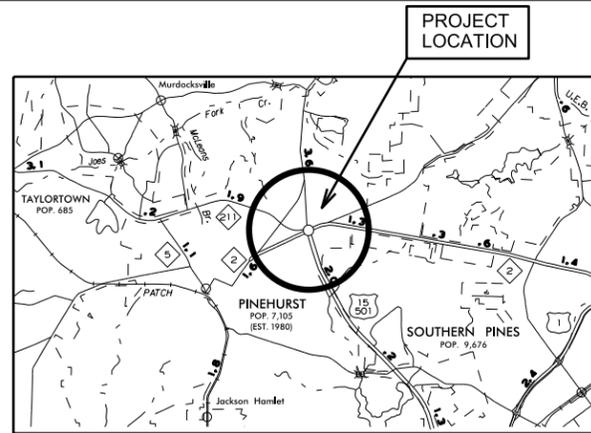
**PROJECT: PINEHURST TRAFFIC CIRCLE PLANTING\* SPRING 2016**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**MOORE COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	46305.3.2	1	4

Notes:  
Contractor and Engineer will coordinate delivery of the annuals prior to installation. Proposed time schedule and desired delivery locations will be agreed upon prior to initiation of work.

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VICINITY MAP

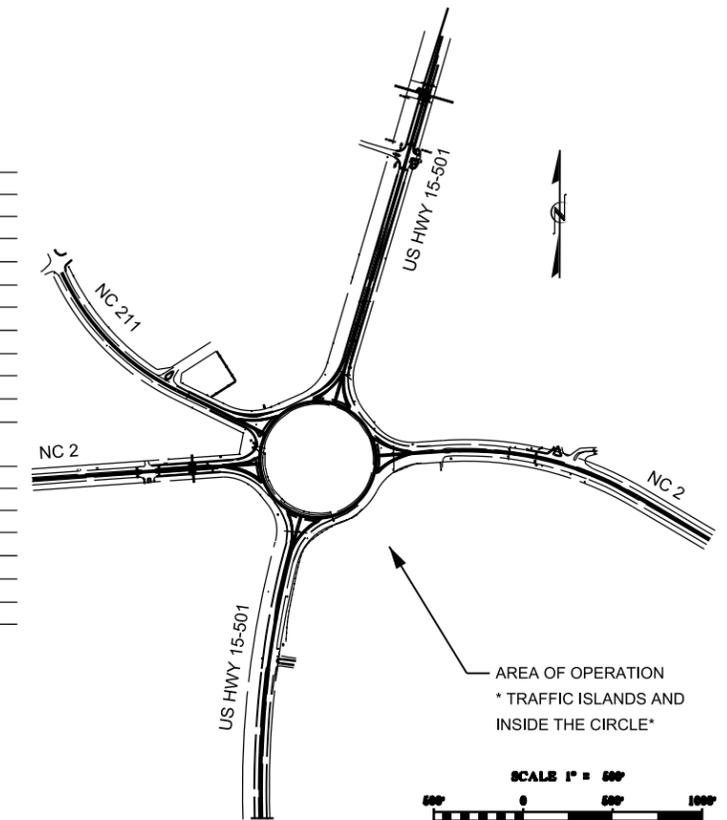
LOCATION: PINEHURST TRAFFIC CIRCLE PLANTING  
TYPE OF WORK: 2016 Spring ANNUAL PLANTINGS

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	• • • OR — OR
Exist. Telephone Pole	●
Prop. Telephone Pole	○
Tower Pole and Line	—
Exist. Power Pole	○
Prop. Power Pole	○
Sanitary Sewer Line	→ SS →
Water Line	—
Gas Line	—
Picnic Shelter	□
Regeneration	///
Reforestation	XXXX
Large Deciduous Tree	○
Evergreen Tree	●
Small or Flowering Tree	○
Shrubs	○○○○
Planting Bed	☁

Summary of Quantities

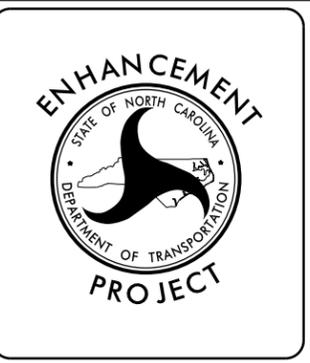
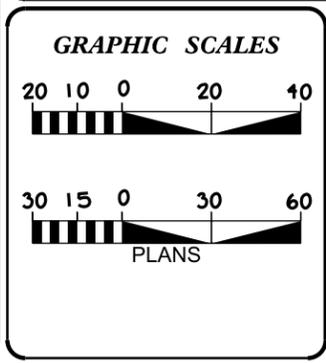
A) PLANT MATERIAL - Growing Contract (by others)							
Quantity	Unit	Key	Plant Name	Common name	Furnish	Spacing	
18	Each Flat	ASB	Angelonia angustifolia 'Serena Blue'	Serenita Blue Angelonia	Flat of 18, Well rooted (1801)	12" O.C.	
17	Each Flat	ASP	Angelonia angustifolia 'Serena Pink'	Serenita Pink Angelonia	Flat of 18, Well rooted (1801)	12" O.C.	
10	Each Flat	ASW	Angelonia angustifolia 'Serena White'	Serenita White Angelonia	Flat of 18, Well rooted (1801)	12" O.C.	
54	Each Flat	BBW	Begonia 'Baby Wing White'	Baby Wing Begonia	Flat of 18, Well rooted (1801)	12" O.C.	
74	Each Flat	BBR	Begonia x benariensis 'Big Red'	Big Red Bronze Leaf Begonia	Flat of 18, Well rooted (1801)	12" O.C.	
22	EA	CE	Colocasia esculenta 'Hawaiian Punch'	Hawaiian Punch Elephant Ear	#2 Cont.	36" O.C.	
56	Each Flat	DG	Duranta erecta 'Gold Mound'	Gold Mound Skyflower	Flat of 18, Well rooted (1801)	12" O.C.	
10	Each Flat	IB	Ipomoea batatas 'Blackie'	Blackie Sweet Potato Vine	Flat of 18, Well rooted (1801)	24" O.C.	
9	Each Flat	IM	Ipomoea batatas 'Margarita'	Margarita Sweet Potato Vine	Flat of 18, Well rooted (1801)	24" O.C.	
2	EA		Delivery				
B) INSTALLATION							
Quantity	Unit	Item Description					
1	LS	Traffic Control					
543	SY	Plant Bed Preparation					
4,464	EA	Installation of Annuals, 18 per Flat					
22	EA	Installation of Annuals, #2 Cont.					
9	EA	Plant Bed Maintenance					

TOTAL number of ANNUALS (as noted above) include an additional 10% for replacements (TO BE used ONLY as directed by the ncdot engineer)



AREA OF OPERATION  
\* TRAFFIC ISLANDS AND  
INSIDE THE CIRCLE\*

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INDEX OF SHEETS :

TITLE, DESCRIPTION, & SUMMARY OF QUANTITIES .....	L1
CIRCLE LAYOUT & Bed quantities .....	L2
DETAIL A&B PLAN .....	L3
DETAIL C,D,&E PLAN .....	L4

Prepared in the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
RALEIGH, N.C.

**2012 STANDARD SPECIFICATIONS**

Drawn By: skc    Design Section    August 2015

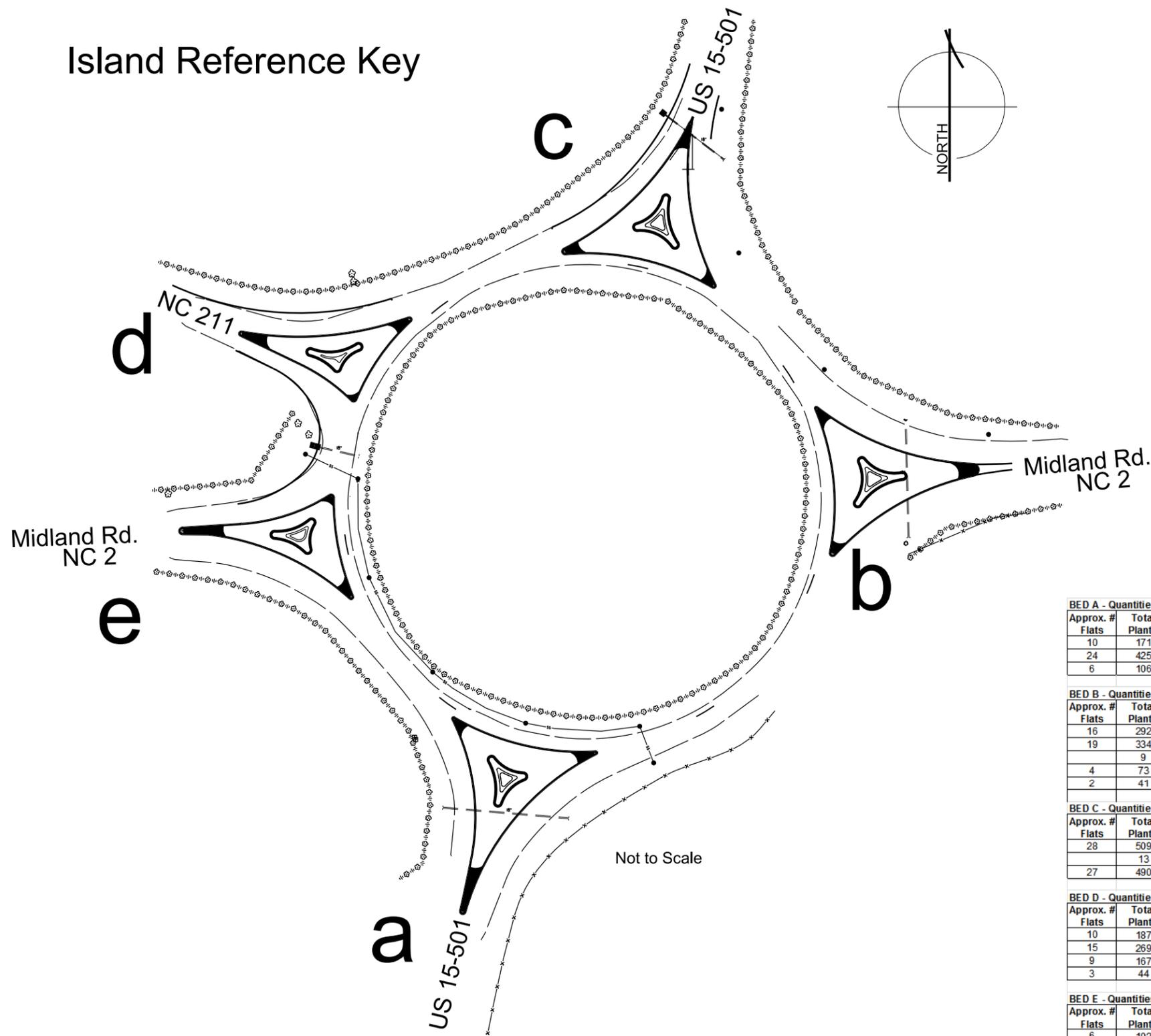
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BEDDING PLANTS SHALL BE WATERED IN IMMEDIATELY FOLLOWING PLANTING OPERATION. NO PORTION OF PLANTING SHALL GO UN WATERED OVERNIGHT. (WATER IN SAME DAY AS PLANT INSTALLATION)

# Island Reference Key



## QUANTITY of Annuals per Plant Bed

BED A - Quantities						
Approx. # Flats	Total Plants	Key	Plant Name	Common Name	Furnish	Spacing
10	171	BBW	Begonia 'Baby Wing White'	Baby Wing Begonia	Flat of 18, Well rooted (1801)	12" O.C.
24	425	DG	Duranta erecta 'Gold Mound'	Gold Mound Skyflower	Flat of 18, Well rooted (1801)	12" O.C.
6	106	IB	Ipomoea batatas 'Blackie'	Blackie Sweet Potato Vine	Flat of 18, Well rooted (1801)	24" O.C.
BED B - Quantities						
Approx. # Flats	Total Plants	Key	Plant Name	Common Name	Furnish	Spacing
16	292	BBR	Begonia x benariensis 'Big Red'	Big Red Bronze Leaf Begonia	Flat of 18, Well rooted (1801)	12" O.C.
19	334	BBW	Begonia 'Baby Wing White'	Baby Wing Begonia	Flat of 18, Well rooted (1801)	12" O.C.
	9	CE	Colocasia esculenta 'Hawaiian Punch'	Hawaiian Punch Elephant Ear	#2 Cont.	36" O.C.
4	73	IM	Ipomoea batatas 'Margarita'	Margarita Sweet Potato Vine	Flat of 18, Well rooted (1801)	24" O.C.
2	41	IB	Ipomoea batatas 'Blackie'	Blackie Sweet Potato Vine	Flat of 18, Well rooted (1801)	24" O.C.
BED C - Quantities						
Approx. # Flats	Total Plants	Key	Plant Name	Common Name	Furnish	Spacing
28	509	BBR	Begonia x benariensis 'Big Red'	Big Red Bronze Leaf Begonia	Flat of 18, Well rooted (1801)	12" O.C.
	13	CE	Colocasia esculenta 'Hawaiian Punch'	Hawaiian Punch Elephant Ear	#2 Cont.	36" O.C.
27	490	DG	Duranta erecta 'Gold Mound'	Gold Mound Skyflower	Flat of 18, Well rooted (1801)	12" O.C.
BED D - Quantities						
Approx. # Flats	Total Plants	Key	Plant Name	Common Name	Furnish	Spacing
10	187	ASB	Angelonia angustifolia 'Serena Blue'	Serenita Blue Angelonia	Flat of 18, Well rooted (1801)	12" O.C.
15	269	ASP	Angelonia angustifolia 'Serena Pink'	Serenita Pink Angelonia	Flat of 18, Well rooted (1801)	12" O.C.
9	167	ASW	Angelonia angustifolia 'Serena White'	Serenita White Angelonia	Flat of 18, Well rooted (1801)	12" O.C.
3	44	IM	Ipomoea batatas 'Margarita'	Margarita Sweet Potato Vine	Flat of 18, Well rooted (1801)	24" O.C.
BED E - Quantities						
Approx. # Flats	Total Plants	Key	Plant Name	Common Name	Furnish	Spacing
6	102	ASB	Angelonia angustifolia 'Serena Blue'	Serenita Blue Angelonia	Flat of 18, Well rooted (1801)	12" O.C.
23	420	BBR	Begonia x benariensis 'Big Red'	Big Red Bronze Leaf Begonia	Flat of 18, Well rooted (1801)	12" O.C.
20	358	BBW	Begonia 'Baby Wing White'	Baby Wing Begonia	Flat of 18, Well rooted (1801)	12" O.C.

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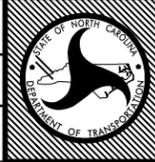
ncdot - Roadside environmental unit  
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 ph: 919-707-2920 fax: 919-715-2554  
[http://www.ncdot.org/doh/operations/dp\\_chief\\_eng/roadside/](http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/)

**Pinehurst Traffic Circle**  
 2016 Spring Annual Plantings  
 contract #:

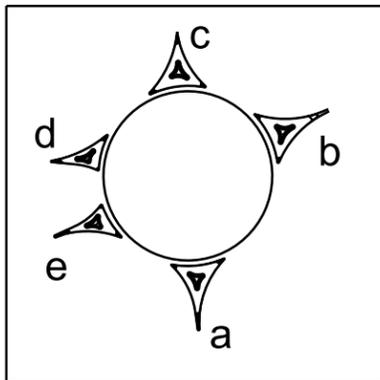
engineer  
**Kyle Copper**

sheet description:  
 prel. design date : Aug 2015  
 checked by & date :  
 final design date :

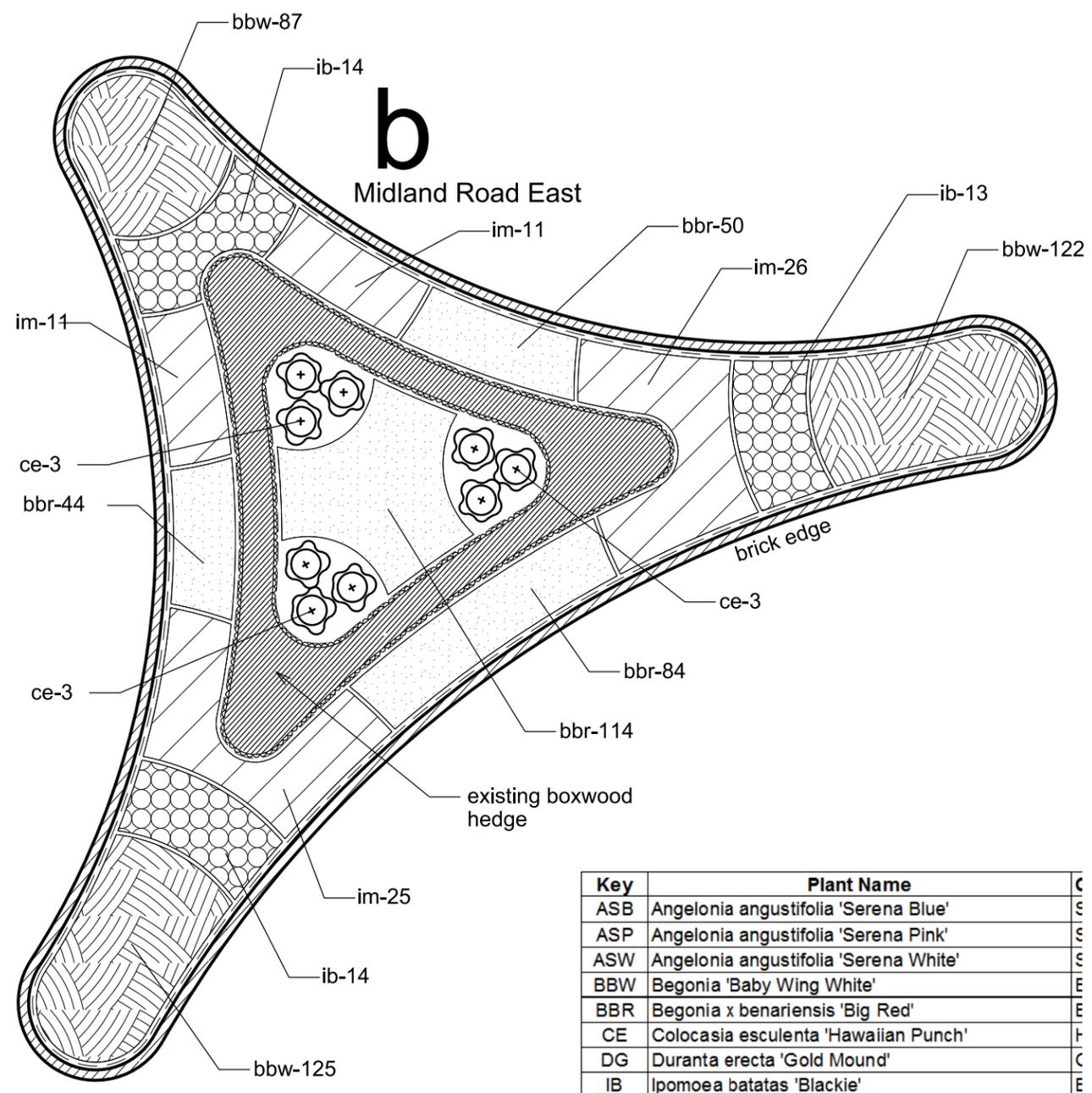
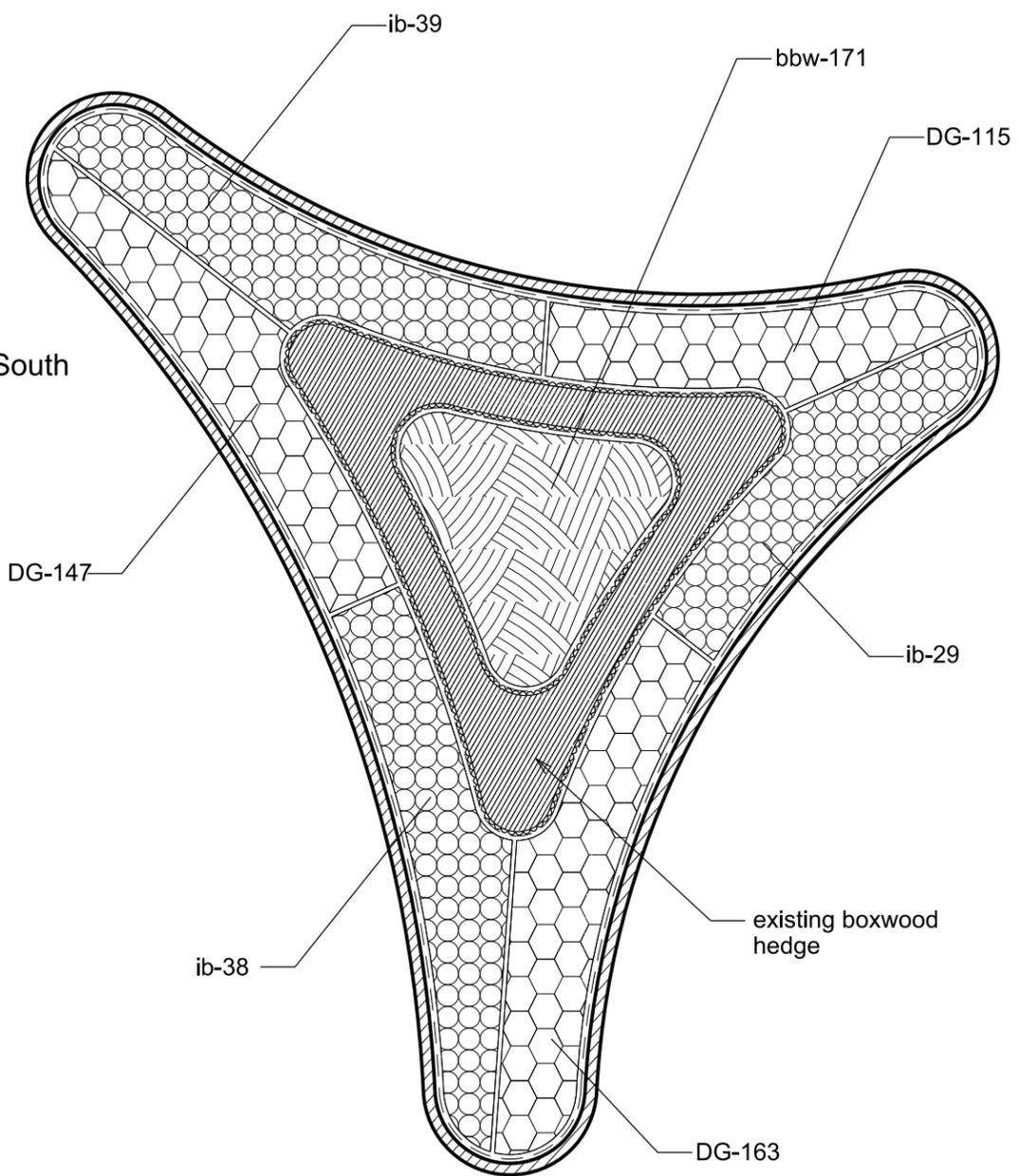
traffic circle islands  
 Circle Reference Key



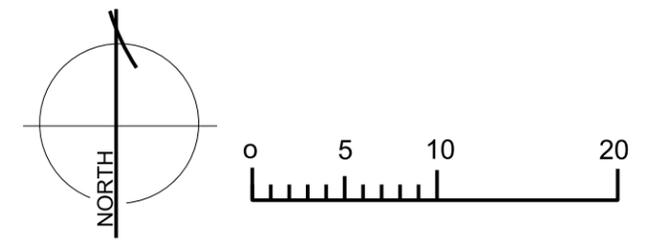
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 WBS # 46305.3.2  
 FED I.D. # STP-0829(006)  
 sheet no: 2 total sheet no: 4



**a**  
US 15-501 South



Key	Plant Name	C
ASB	Angelonia angustifolia 'Serena Blue'	S
ASP	Angelonia angustifolia 'Serena Pink'	S
ASW	Angelonia angustifolia 'Serena White'	S
BBW	Begonia 'Baby Wing White'	E
BBR	Begonia x benariensis 'Big Red'	E
CE	Colocasia esculenta 'Hawaiian Punch'	F
DG	Duranta erecta 'Gold Mound'	C
IB	Ipomoea batatas 'Blackie'	E
IM	Ipomoea batatas 'Margarita'	M



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ncdot - Roadside environmental unit  
landscape design & Development  
1557 mail service center raleigh nc 27699-1557  
ph: 919-733-2920 fax: 919-733-9810  
[http://www.ncdot.org/doh/operations/dp\\_chief\\_eng/roadside/](http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/)

**Pinehurst Traffic Circle**  
2016 Spring Annual Plantings  
contract #:

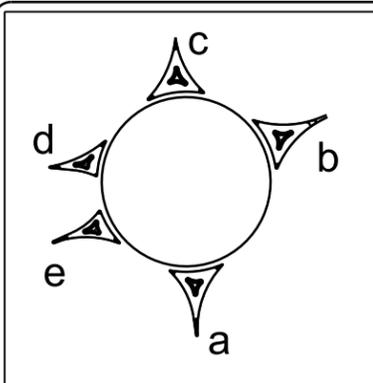
preu engineer  
**Kyle Copper**

sheet description:  
prel. design date : Aug 2015  
checked by : B. Kopetsky  
final design date :

traffic circle islands  
Interior Plant Beds  
Island A & B



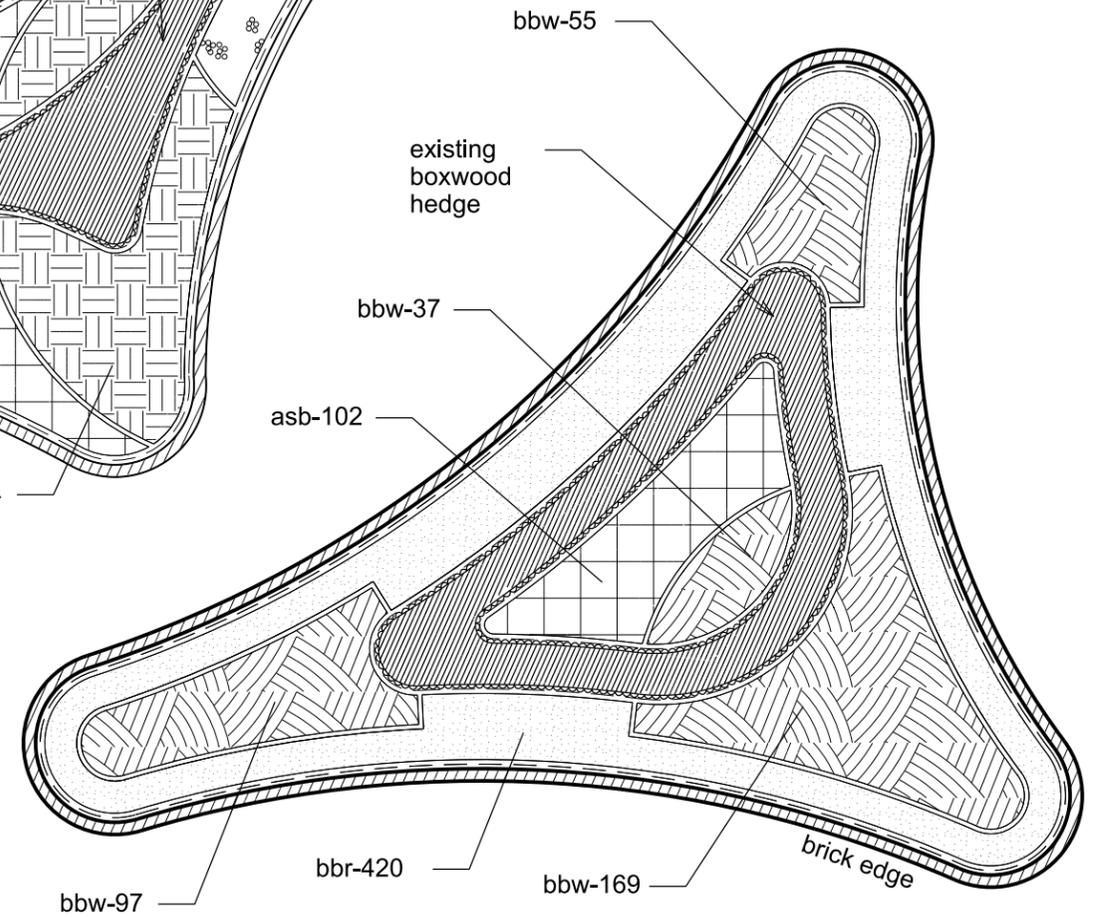
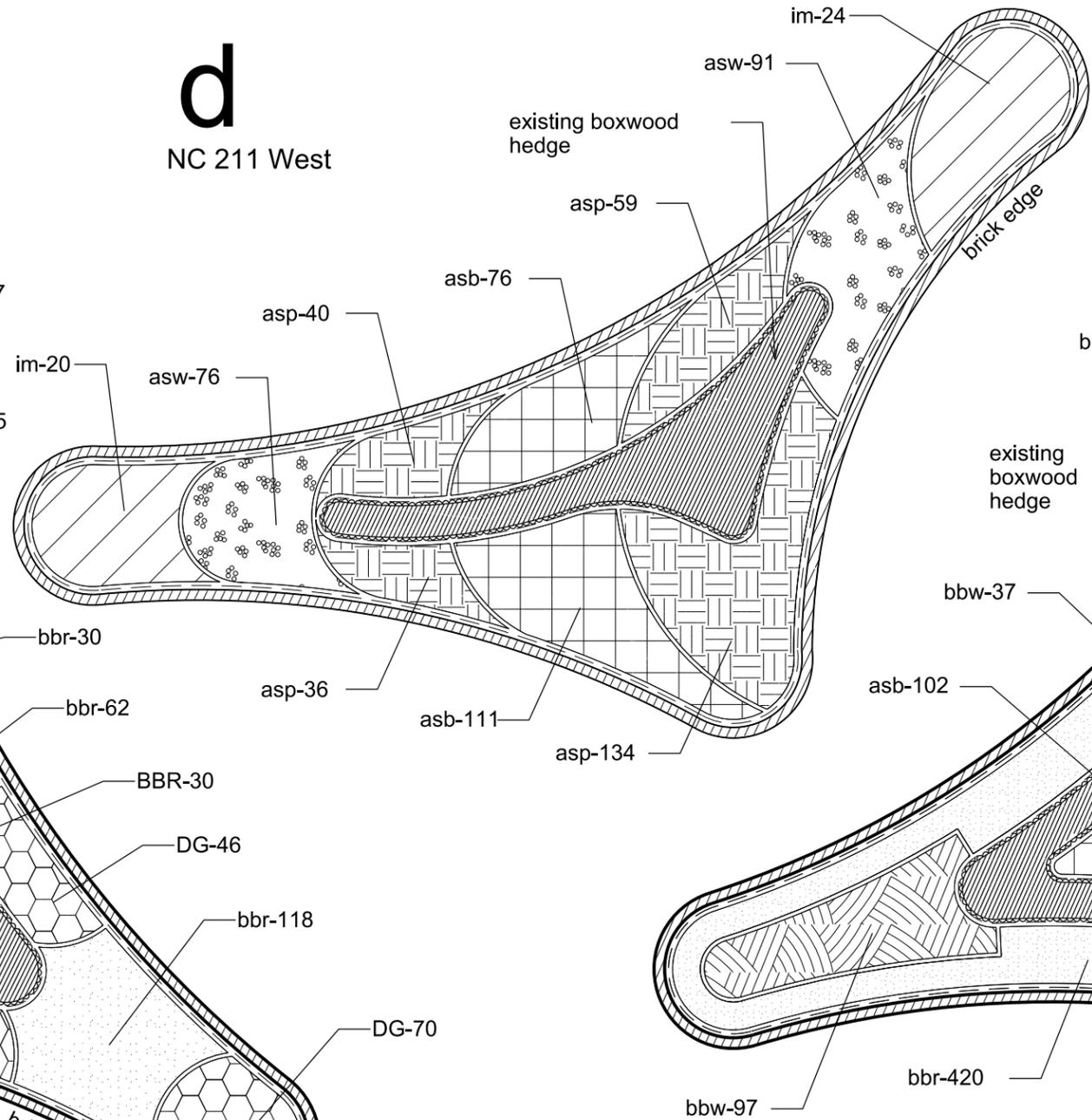
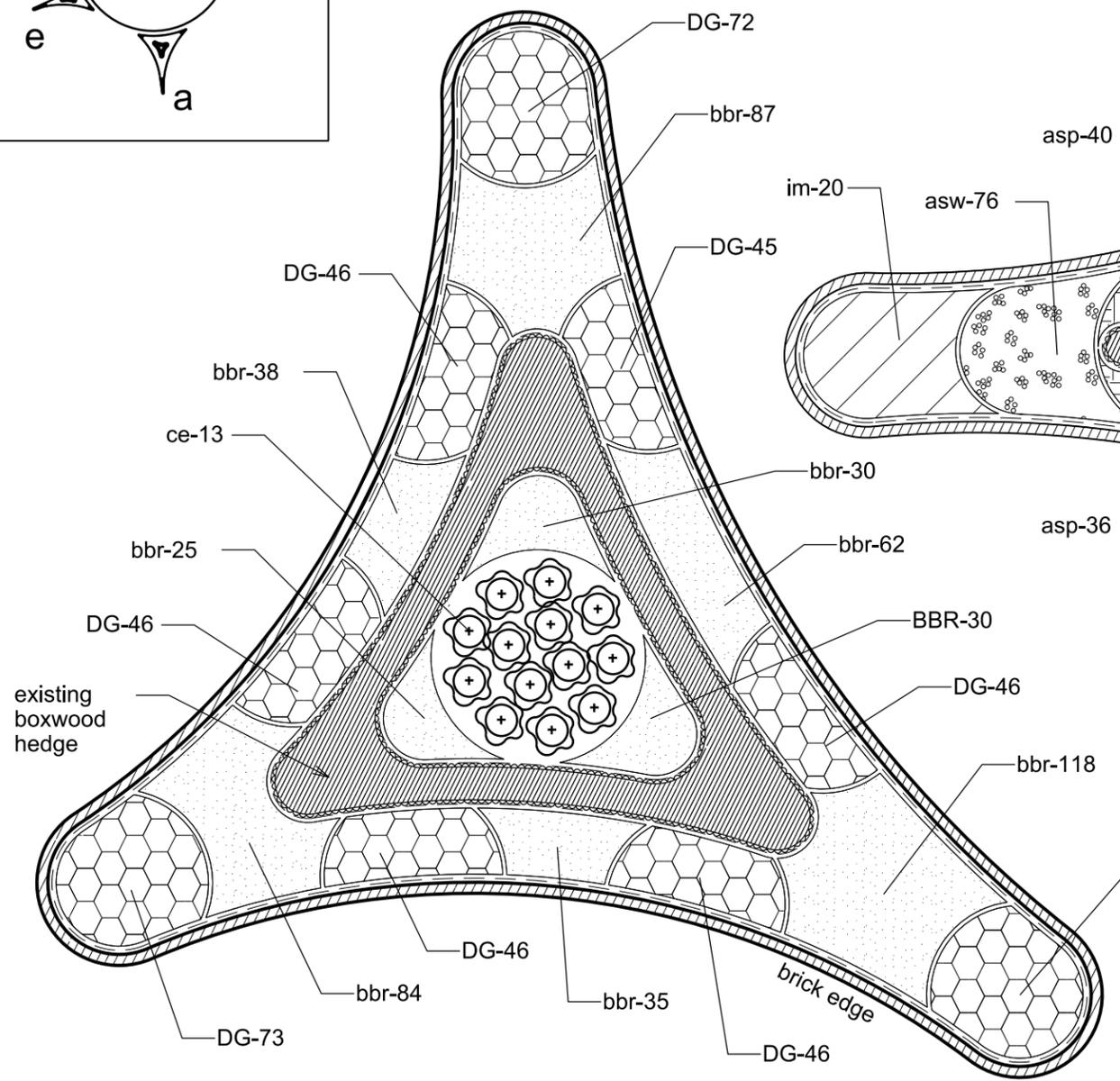
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WBS # 46305.3.2  
FED I.D. # STP-0829(006)  
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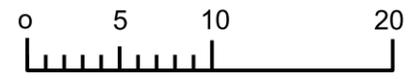
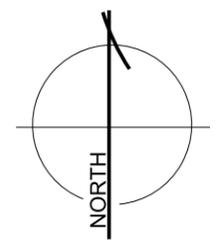
**c**  
US 15-501 North

**d**  
NC 211 West

**e**  
Midland Road West



Key	Plant Name	Symbol
ASB	Angelonia angustifolia 'Serena Blue'	⊖
ASP	Angelonia angustifolia 'Serena Pink'	⊕
ASW	Angelonia angustifolia 'Serena White'	⊙
BBW	Begonia 'Baby Wing White'	⊖
BBR	Begonia x benariensis 'Big Red'	⊕
CE	Colocasia esculenta 'Hawaiian Punch'	⊙
DG	Duranta erecta 'Gold Mound'	⊖
IB	Ipomoea batatas 'Blackie'	⊕
IM	Ipomoea batatas 'Margarita'	⊙



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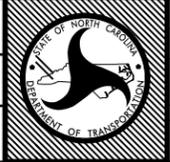
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**Pinehurst Traffic Circle**  
2016 Spring Annual Plantings  
contract #:

preu engineer  
**Kyle Copper**

sheet description:	prel. design date: Aug 2015
	checked by: B. Kopetsky
	final design date:

traffic circle islands
Interior Plant Beds
Island C, D, & E



T.I.P. #	ER-5600HA
WBS #	46305.3.2
FED I.D. #	STP-0829(006)
sheet no.:	4
total sheet no.:	4