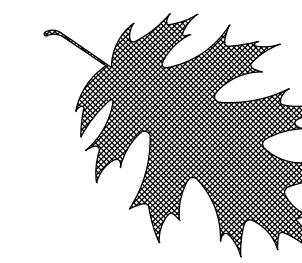


HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
W-5514		LT	24
FED. PROJ. #	DESCRIPTION		DIVISION
-	ENHANCEMENT		6



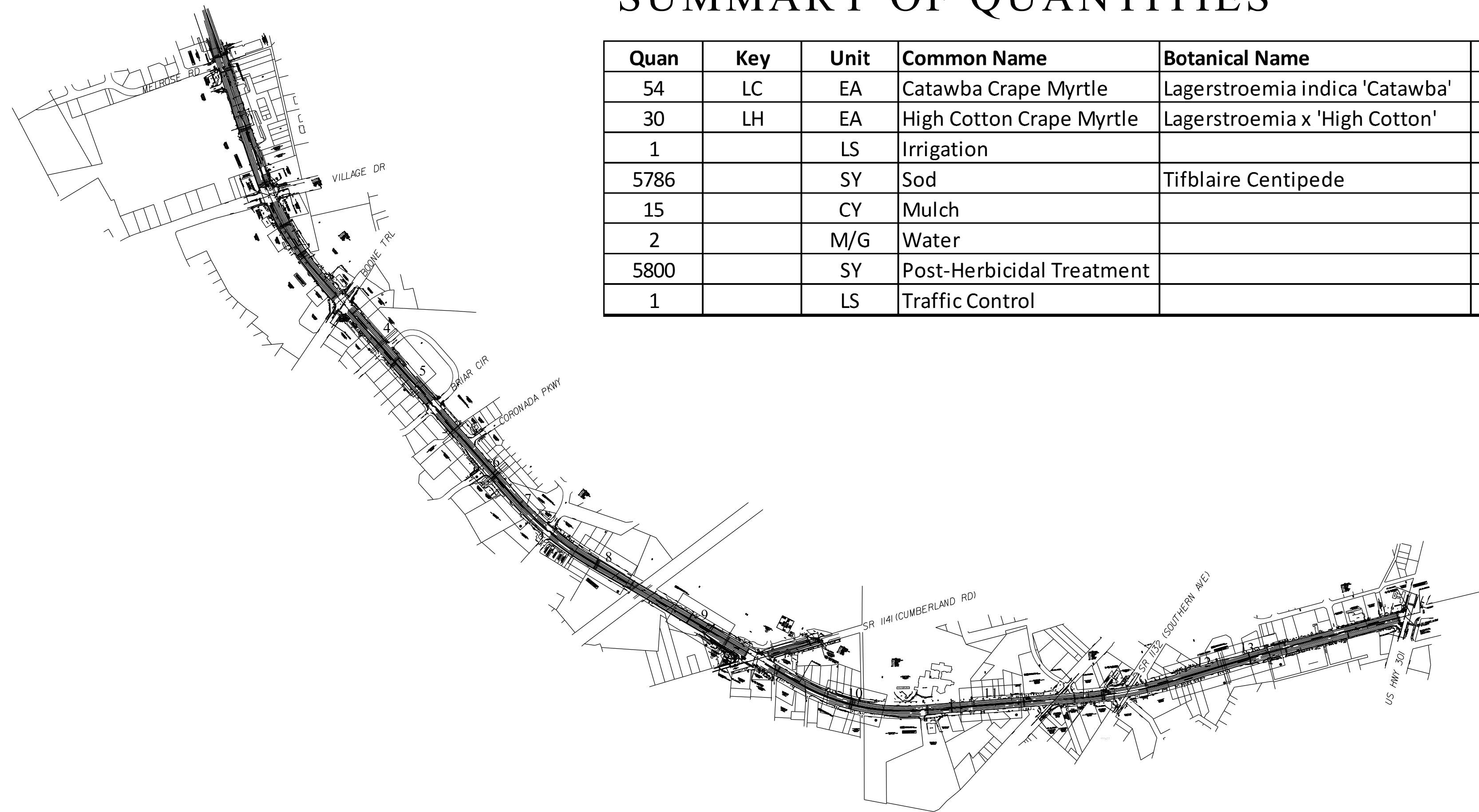
CUMBERLAND COUNTY LANDSCAPE ENHANCEMENT

LOCATION: OWEN DRIVE, FAYETTEVILLE, NC

TYPE OF WORK: LANDSCAPE ENHANCEMENT PLANTING

SUMMARY OF QUANTITIES

Quan	Key	Unit	Common Name	Botanical Name	Notes
54	LC	EA	Catawba Crape Myrtle	Lagerstroemia indica 'Catawba'	10-12', B&B, Full
30	LH	EA	High Cotton Crape Myrtle	Lagerstroemia x 'High Cotton'	10-12', B&B, Full
1		LS	Irrigation		
5786		SY	Sod	Tifblaire Centipede	
15		CY	Mulch		
2		M/G	Water		
5800		SY	Post-Herbicidal Treatment		
1		LS	Traffic Control		



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	-----○-----

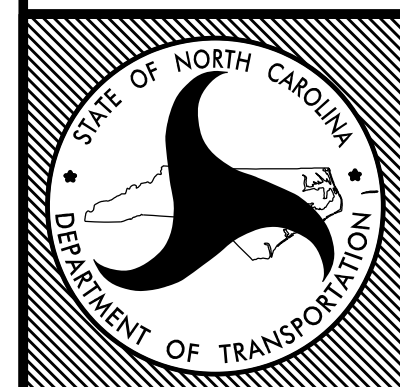
INDEX OF SHEETS:

- LT ... TITLE, DESCRIPTION, LOCATION, SUMMARY OF QUANTITIES
- I-02 ... IRRIGATIONS SPECS & EST. IRR. QUAN.
- I-03... IRRIGATIONS DETAILS
- I-04 - I-13 ... IRRIGATION PLANS
- L-03 ... PLANTING DETAILS
- L-04 - L-13 ... LANDSCAPE PLANS

PREPARED BY: BK DATE: 12/2016

REVISIONS

DATE	DESCRIPTION



STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

LOCATION: OWEN DR., FAYETTEVILLE, NC

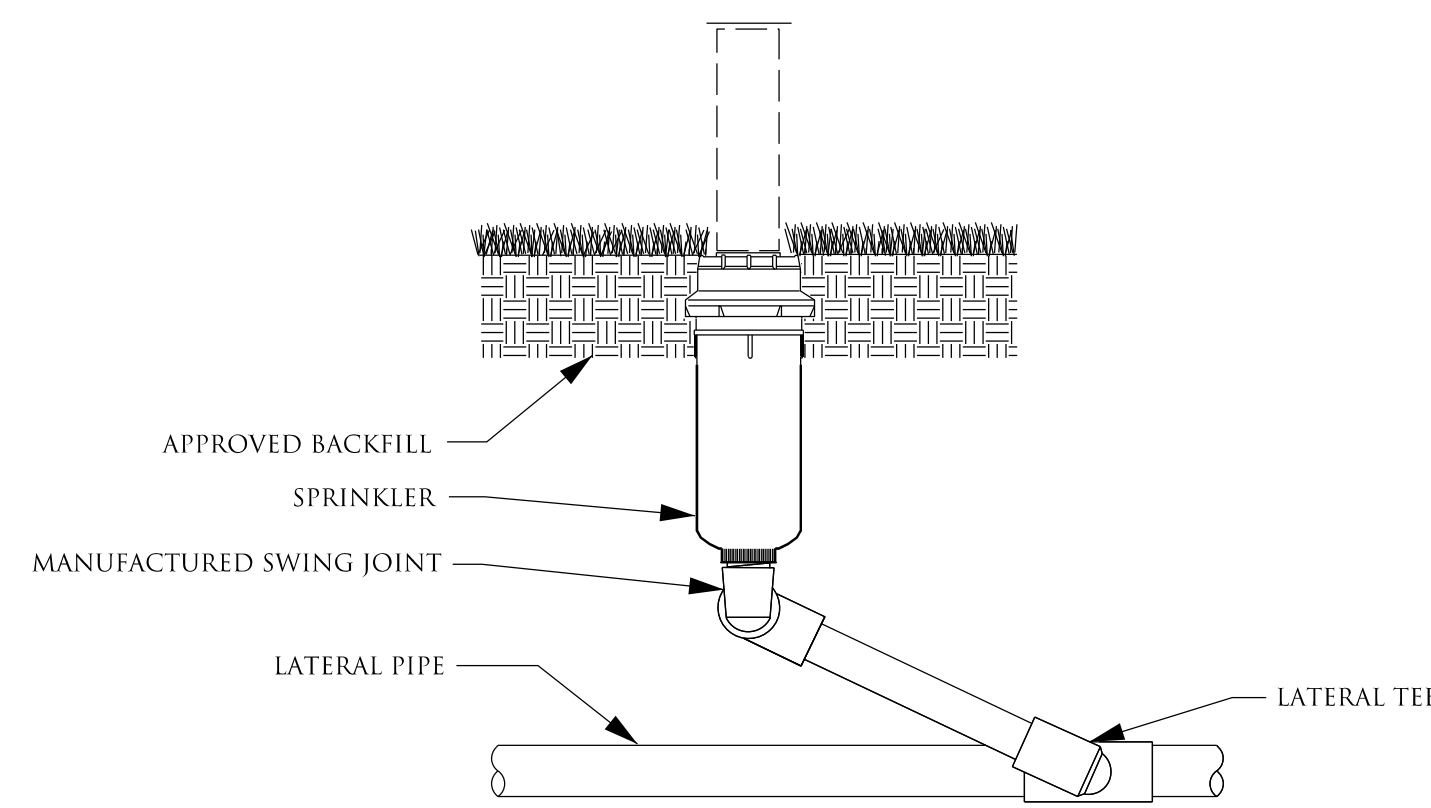
TYPE OF WORK: LANDSCAPE PLANTING & IRRIGATION

COUNTY: CUMBERLAND

2014 American Standard for Nursery Stock
2018 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

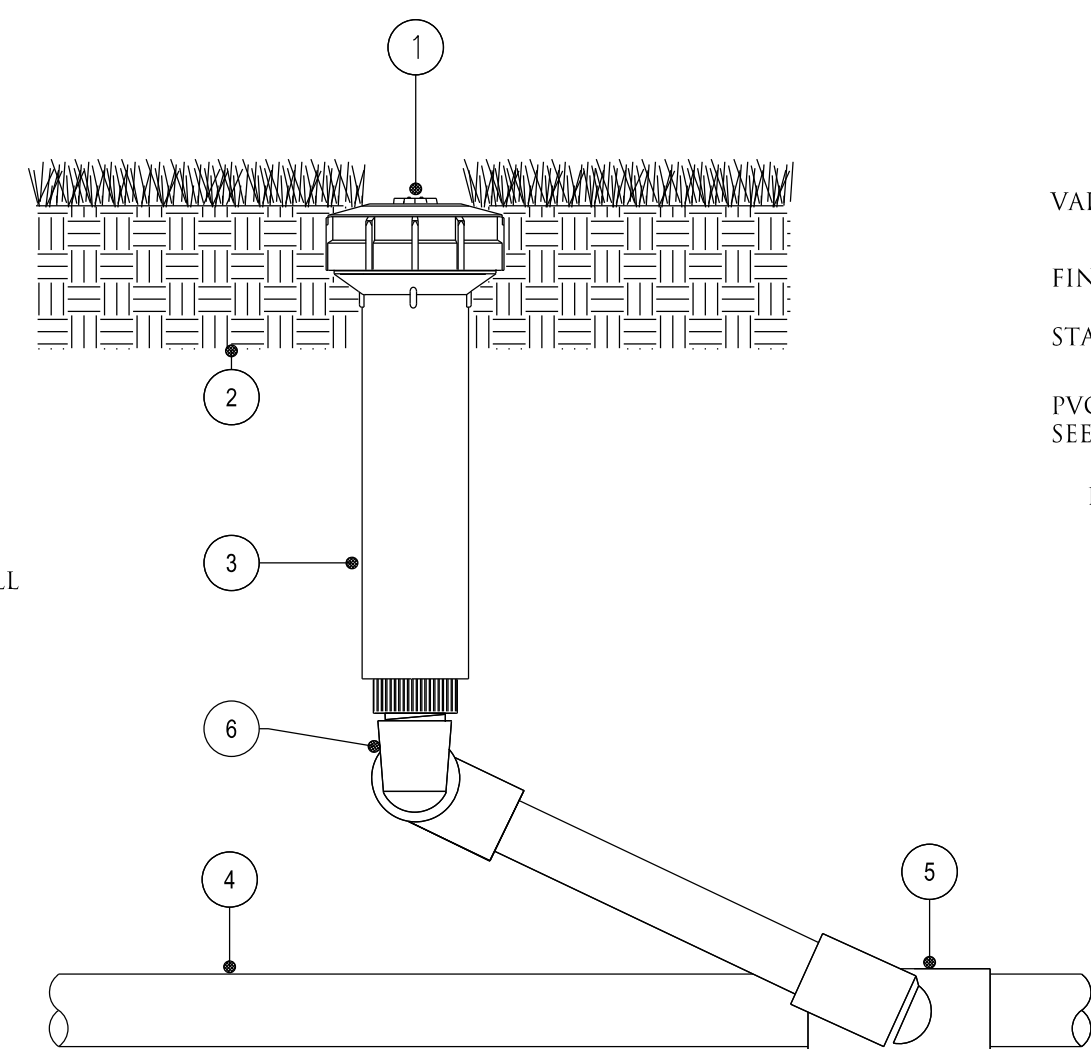
PROJECT: W-5514, OWEN DR, FAYETTEVILLE, NC

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$USERNAM\$\$\$\$\$



NOTES:
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.
 3. INSTALL SPRINKLER AT FINISHED GRADE.

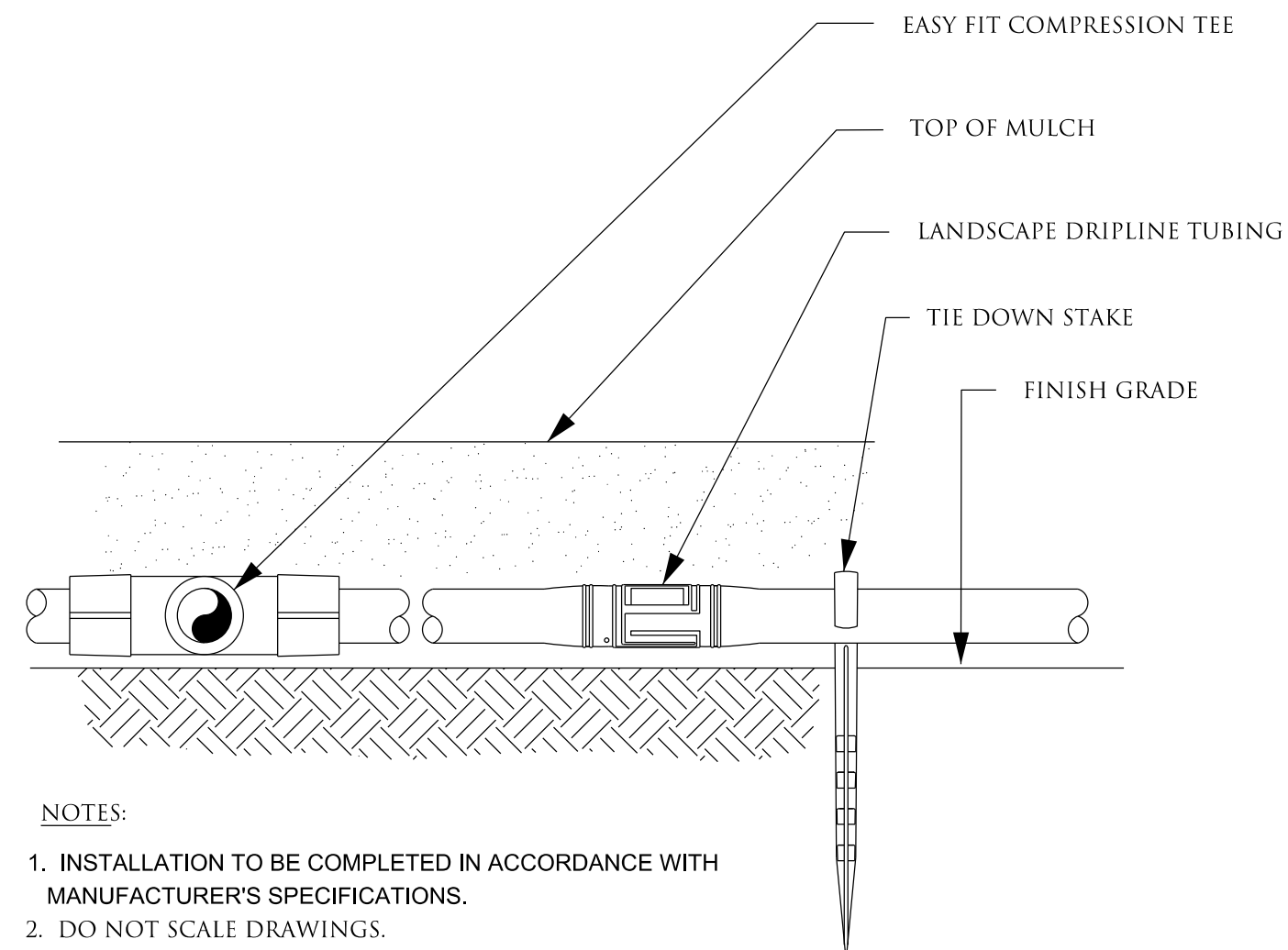
POP-UP SPRAY HEADS
 SINGLE-STREAM SPRINKLER, SWING JOINT (NOT TO SCALE)



LEGEND
 1. NOZZLE (SIZE PER PLAN)
 2. APPROVED BACKFILL
 3. SPRINKLER
 4. LATERAL PIPE
 5. LATERAL TEE
 6. MANUFACTURED SWING JOINT

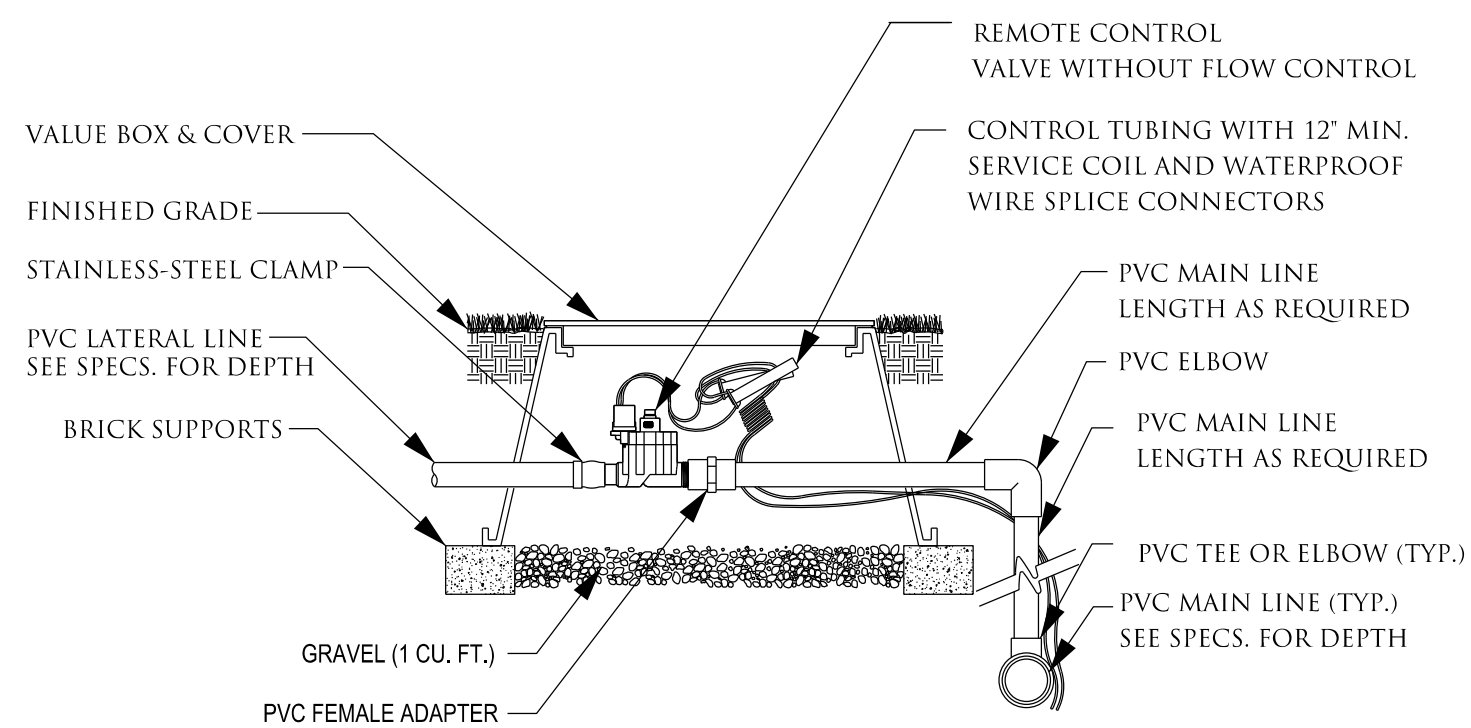
NOTES:
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.
 3. INSTALL SPRINKLERHEAD AT FINISHED GRADE

ROTOR SPRINKLER
 4 INCH POP-UP (SWING JOINT) (NOT TO SCALE)



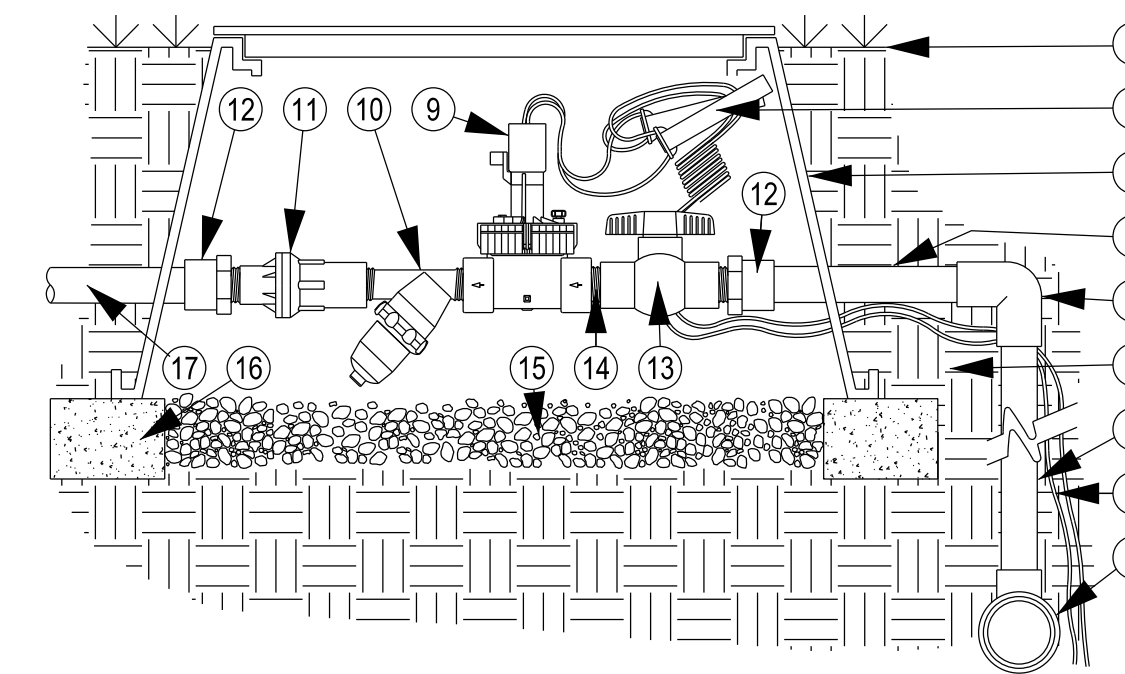
NOTES:
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.

LANDSCAPE DRIPLINE ON GRADE
 POTABLE SYSTEM (NOT TO SCALE)



NOTES:
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.

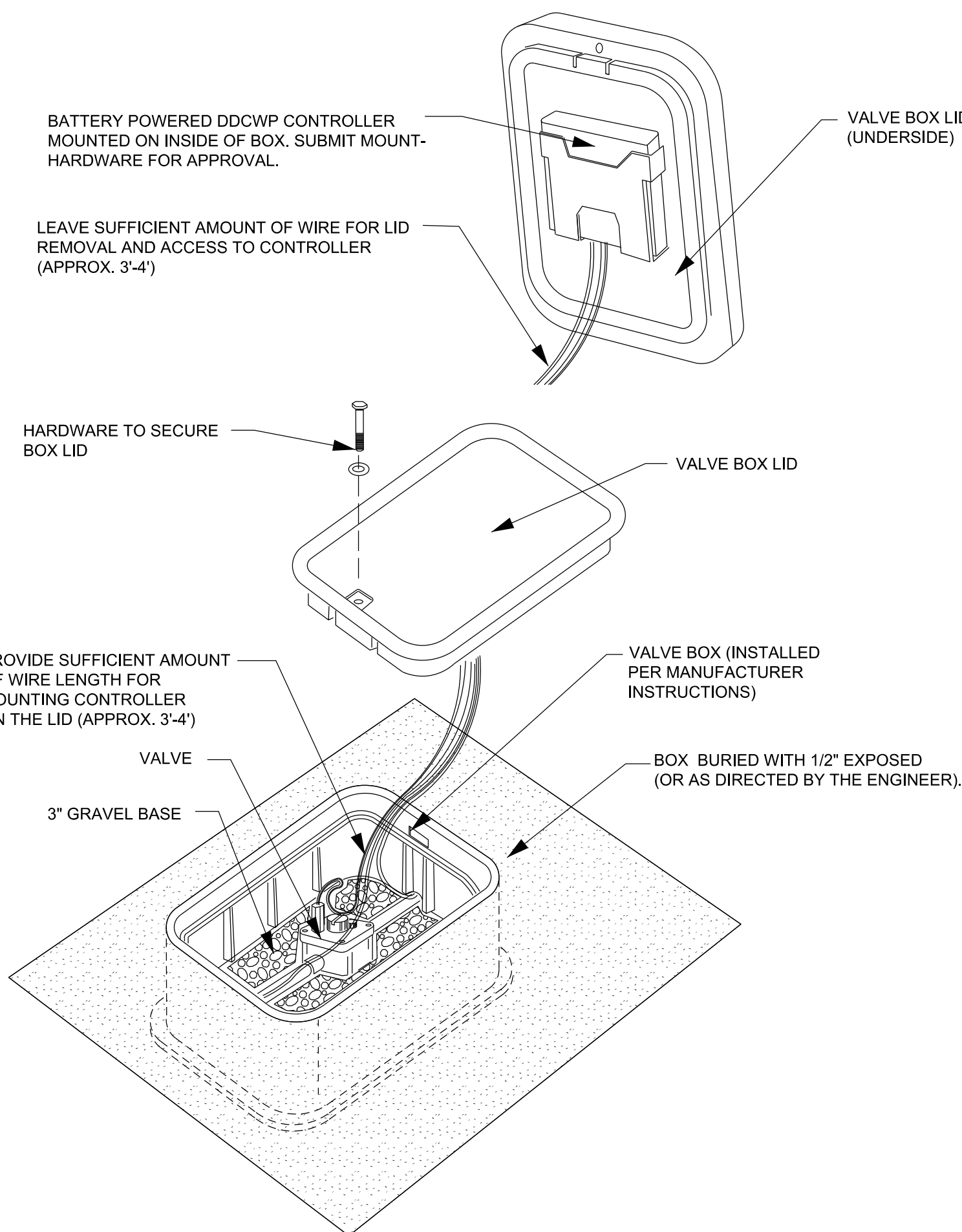
VALVES & BOX
 1" PLASTIC VALVE (NOT TO SCALE)



LEGEND
 1. FINISHED GRADE
 2. WATERPROOF DRY SPLICE CONNECTORS
 3. 12" VALVE BOX WITH COVER
 4. PVC LATERAL LINE
 5. SCH 40 PVC 90° ELL JOINT
 6. NATIVE SOIL PER SPECIFICATIONS.
 7. CONTROL WIRES TO CONTROLLER.
 8. PVC MAINLINE FITTING.
 9. REMOTE CONTROL VALVE
 10. MESH SCREEN FILTER WITH FLUSH CAP
 11. ADJUSTABLE PRESSURE REGULATOR
 12. PVC SCH 40 FEMALE ADAPTER
 13. MANUAL VALVE
 14. PVC SCH 40 TRANSITION NIPPLE
 15. WASHED GRAVEL SUMP (MIN. 3")
 16. BRICK SUPPORTS
 17. LATERAL LINE TO DRIP SYSTEM.

NOTES:
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.

DRIP ZONE ASSEMBLY
 VALVE ASSEMBLY (NOT TO SCALE)



BATTERY POWERED DDCWP CONTROLLER MOUNTED ON INSIDE OF BOX. SUBMIT MOUNT-HARDWARE FOR APPROVAL.

LEAVE SUFFICIENT AMOUNT OF WIRE FOR LID REMOVAL AND ACCESS TO CONTROLLER (APPROX. 3'-4")

HARDWARE TO SECURE BOX LID

PROVIDE SUFFICIENT AMOUNT OF WIRE LENGTH FOR MOUNTING CONTROLLER ON THE LID (APPROX. 3'-4")

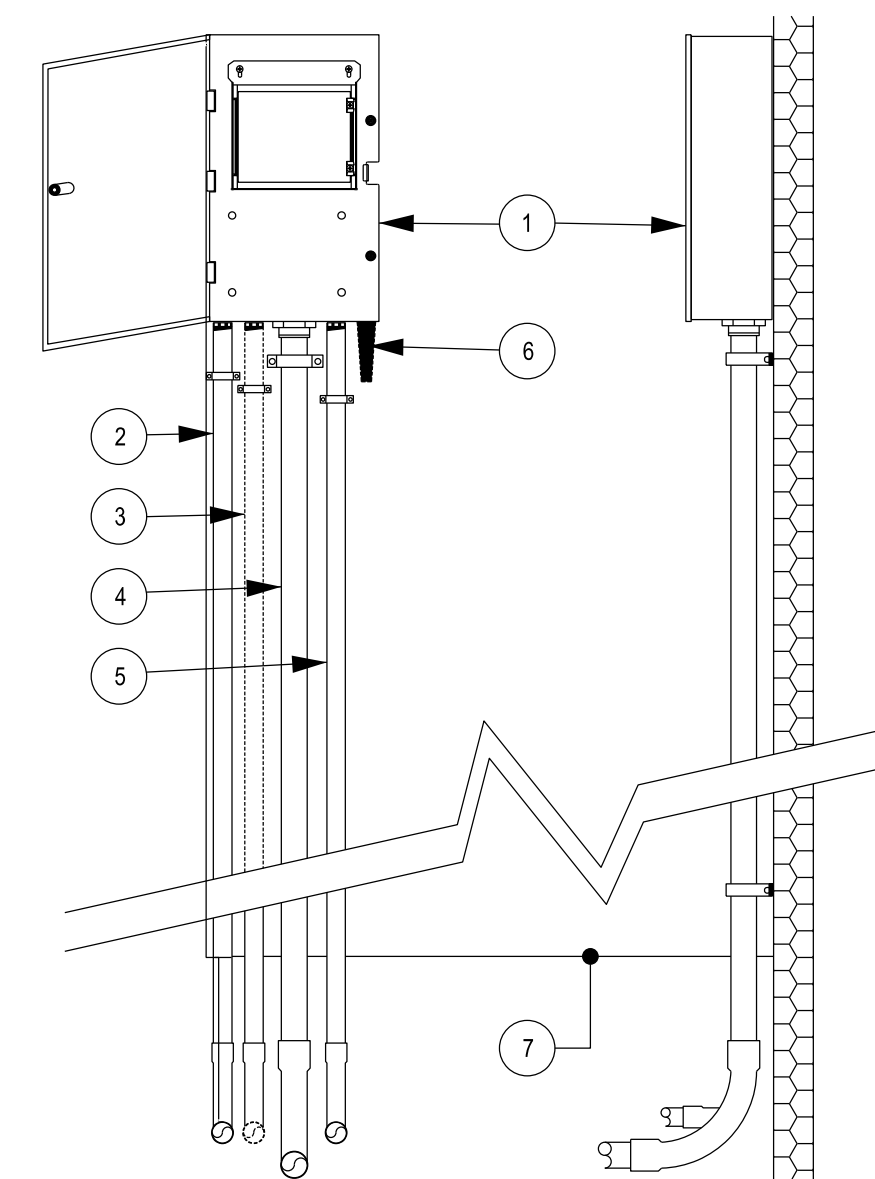
VALVE

3" GRAVEL BASE

VALVE BOX LID

VALVE BOX (INSTALLED PER MANUFACTURER INSTRUCTIONS)

BOX BURIED WITH 1/2" EXPOSED (OR AS DIRECTED BY THE ENGINEER).



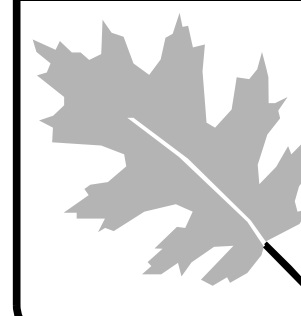
LEGEND
 1. SMALL METAL CABINET WALL MOUNT IRRIGATION CONTROLLER SEE PLAN FOR NUMBER OF STATIONS.
 2. 1/2" CONDUIT FOR ELECTRICAL POWER PER LOCAL AND NATIONAL ELECTRICAL CODES. OPTIONAL 3/4" KNOCK-OUT IF LARGER CONDUITS ARE USED.
 3. OPTINOAL 1/2" KNOCK-OUT FOR RAIN SENSOR WIRE.
 4. 2" CONDUIT FOR REMOTE CONTROL WIRES AND MV OR PUMP START WIRES. OPTIONAL 3" KNOCK-OUT IF LARGER WIRES ARE USED. SECURE TO WALL WITH APPROPRIATE PIPE CLAMPS.
 5. 3/4" KNOCKOUT FOR EARTH GROUND WIRES.
 6. MOUNTED NARROWBAND ANTENNA
 7. FINISHED GRADE

NOTES:
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 2. MOUNT CONTROLLER ON EXISTING POST NEW PRESSURE TREATED POST, OR AS DIRECTED BY THE NCDOT ENGINEER.
 3. DRAWING NOT TO SCALE.

CONTROLLER WALL MOUNT
 WALL-MOUNT CONTROLLER, METAL (NOT TO SCALE)

DDCWP CONTROLLER BOX LID MOUNT
 BATTERY POWERED CONTROLLER (NOT TO SCALE)

2025 RELEASE UNDER E.O. 14176



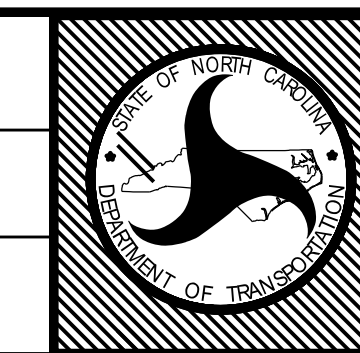
NCDOT - Roadside Environmental Unit
 Aesthetic Engineering Section
 1557 Mail Service Center Raleigh NC 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

W-5514 Owen Dr
 Landscape Development Plan
 Fayetteville NC

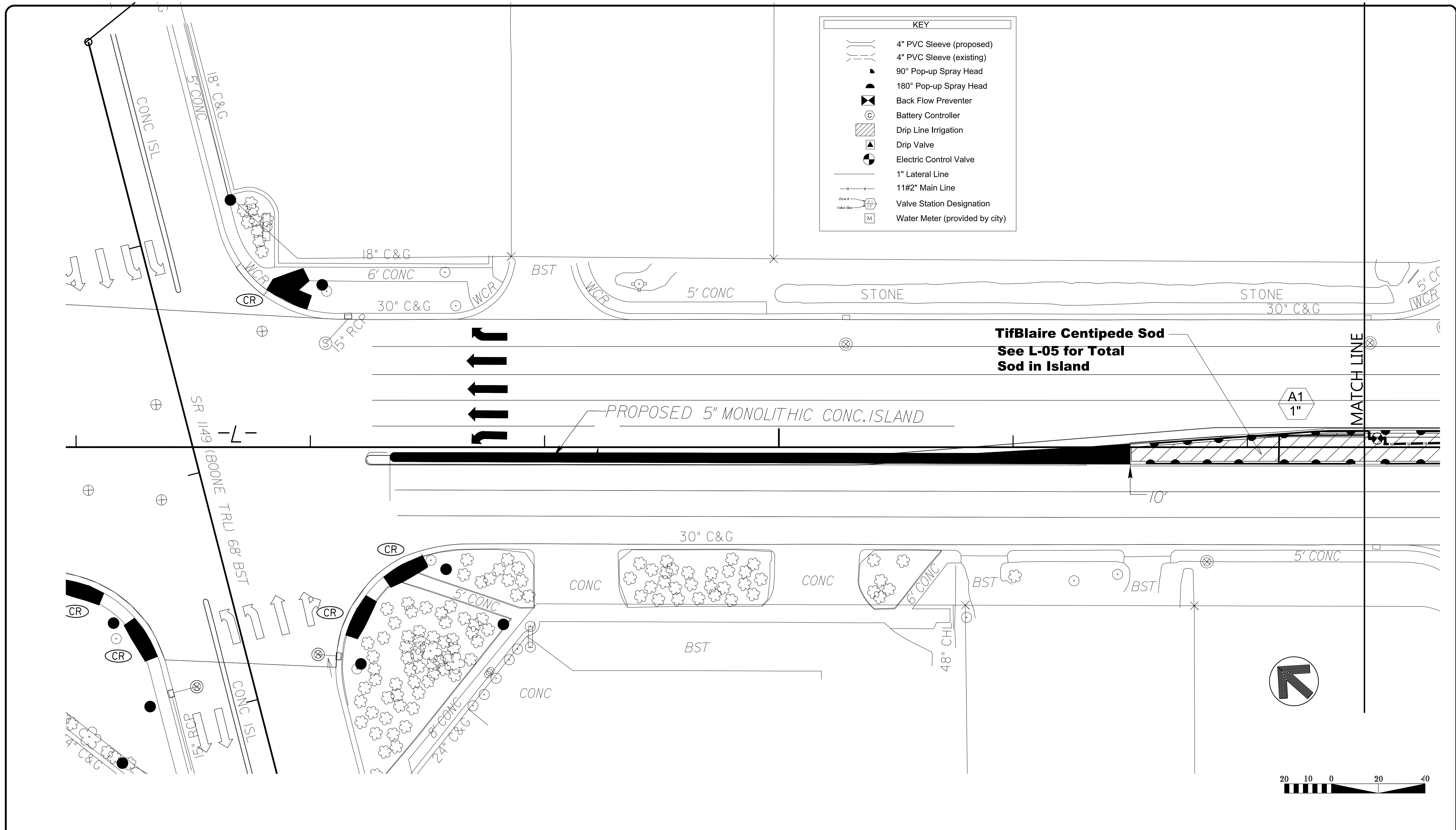
RN Kopetsky

pref. design date :	Dec/2016
checked by & date :	
final design date :	

Roadside Enhancements
 Irrigation Details

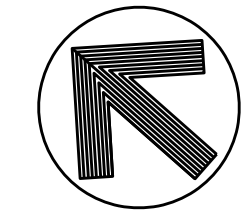
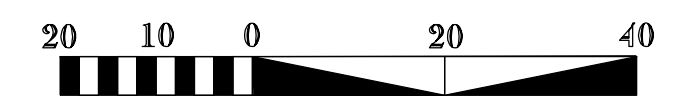


T.I.P. #	W-5514
WBS #	
FED I.D. #	
sheet no :	total sheet no :
I-03	24

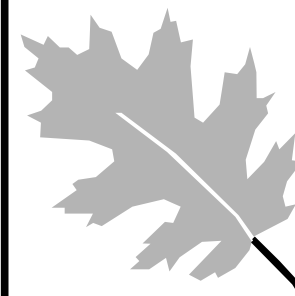



KEY	
4" PVC Sleeve (proposed)	
4" PVC Sleeve (existing)	
	90° Pop-up Spray Head
	180° Pop-up Spray Head
	Back Flow Preventer
	Battery Controller
	Drip Line Irrigation
	Drip Valve
	Electric Control Valve
1" Lateral Line	
11#2" Main Line	
	Valve Station Designation
	Water Meter (provided by city)

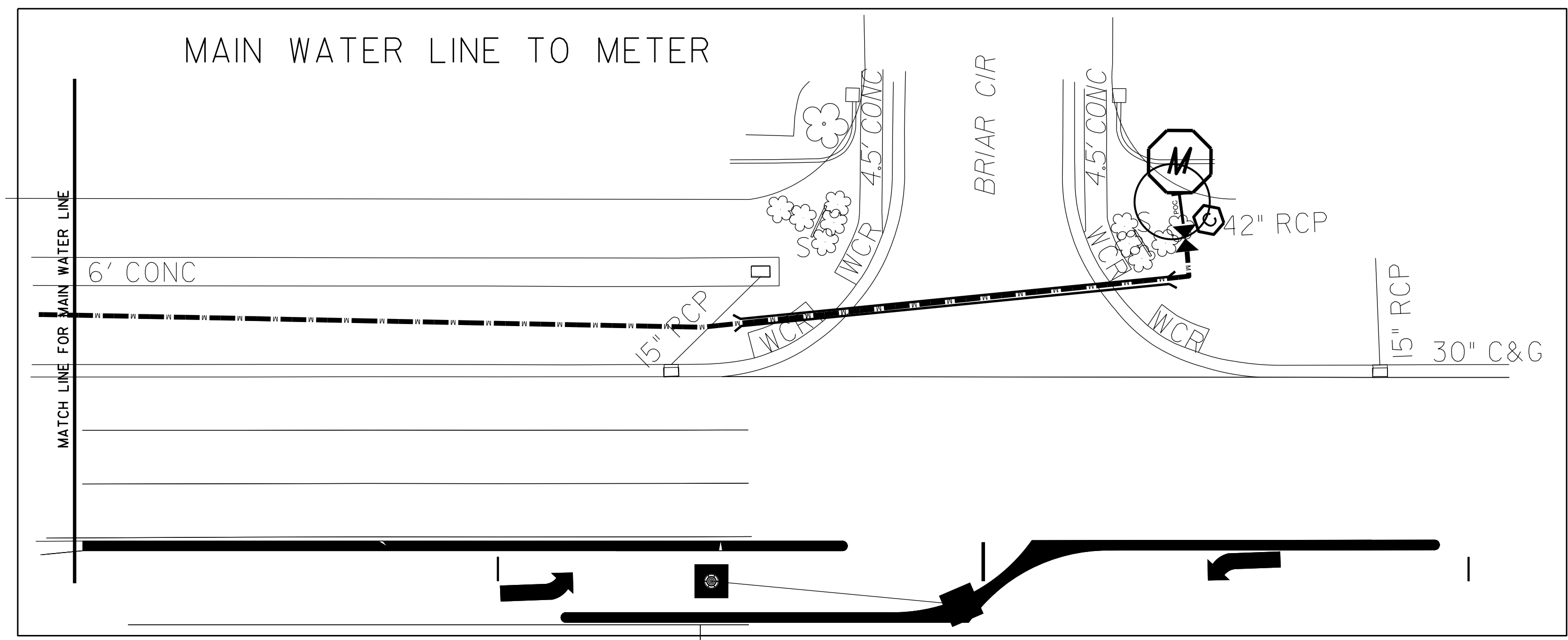
TifBlaire Centipede Sod
 See L-05 for Total Sod in Island



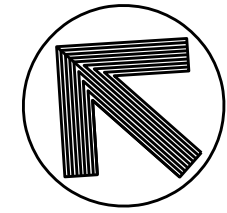
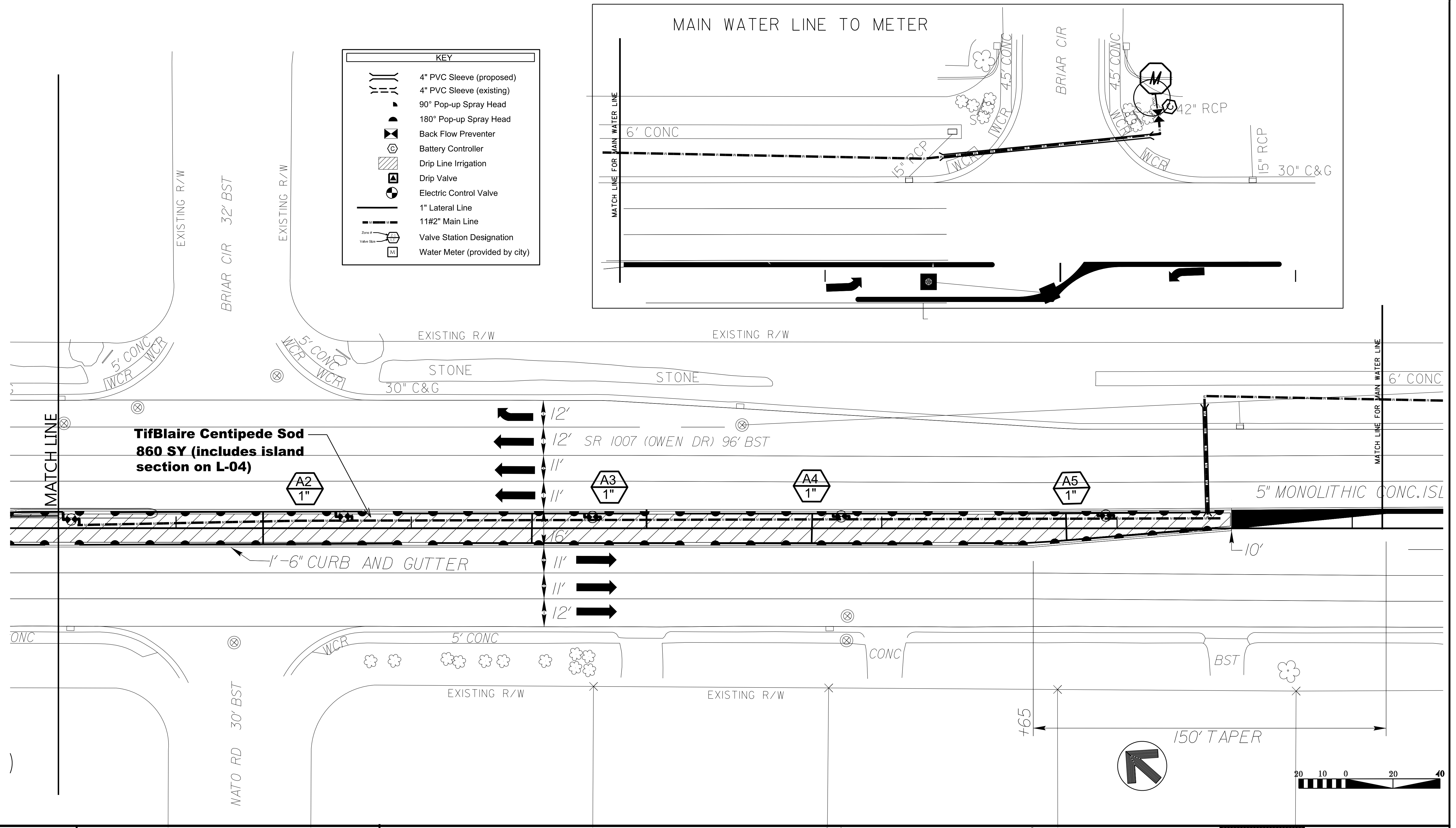
2025 RELEASE UNDER E.O. 14176

 <p>NCDOT - Roadside Environmental Unit Aesthetic Engineering Section 1557 Mail Service Center Raleigh NC 27699-1557 ph: 919-707-2920 fax: 919-715-2554 https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/</p>	<p>W-5514 Owen Dr Landscape Development Plan Fayetteville NC</p>	<p>pref. design date : Dec/2016</p>	<p>Roadside Enhancements</p> 	<p>T.I.P. # W-5514</p>
	<p>checked by & date :</p>	<p>WBS #</p>		
	<p>final design date :</p>	<p>FED I.D. #</p>		
			<p>sheet no : 1-04</p>	<p>total sheet no : 24</p>

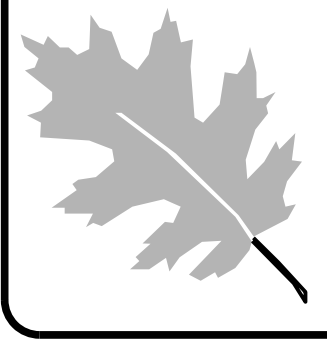
RN Kopetsky



KEY	
	4" PVC Sleeve (proposed)
	4" PVC Sleeve (existing)
	90° Pop-up Spray Head
	180° Pop-up Spray Head
	Back Flow Preventer
	Battery Controller
	Drip Line Irrigation
	Drip Valve
	Electric Control Valve
	1" Lateral Line
	11#2" Main Line
	Valve Station Designation
	Water Meter (provided by city)



2025 RELEASE UNDER E.O. 14176



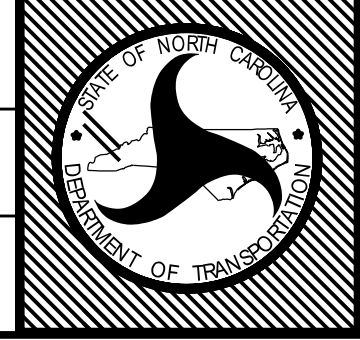
NCDOT - Roadside Environmental Unit
 Aesthetic Engineering Section
 1557 Mail Service Center Raleigh NC 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

W-5514 Owen Dr
Landscape Development Plan
Fayetteville NC

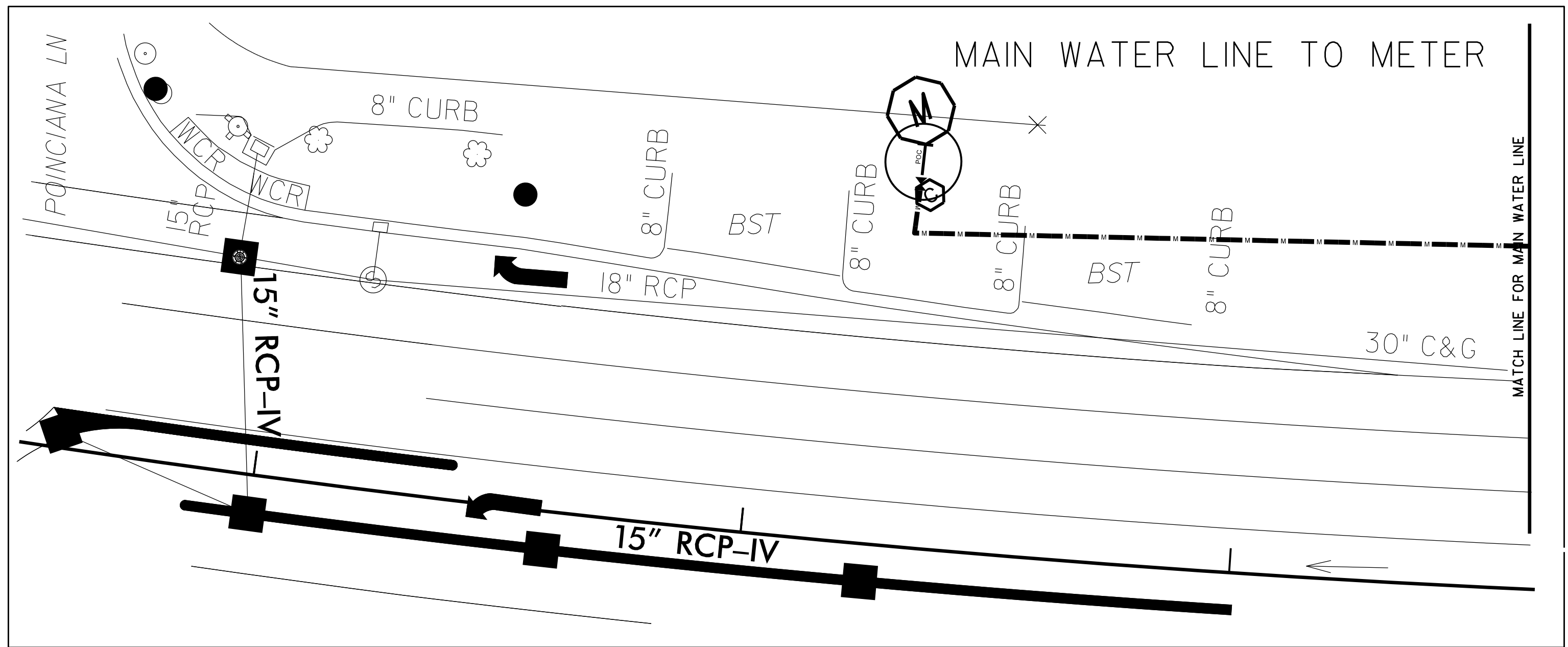
RN Kopetsky

sheet description:
 pref. design date : Dec/2016
 checked by & date :
 final design date :

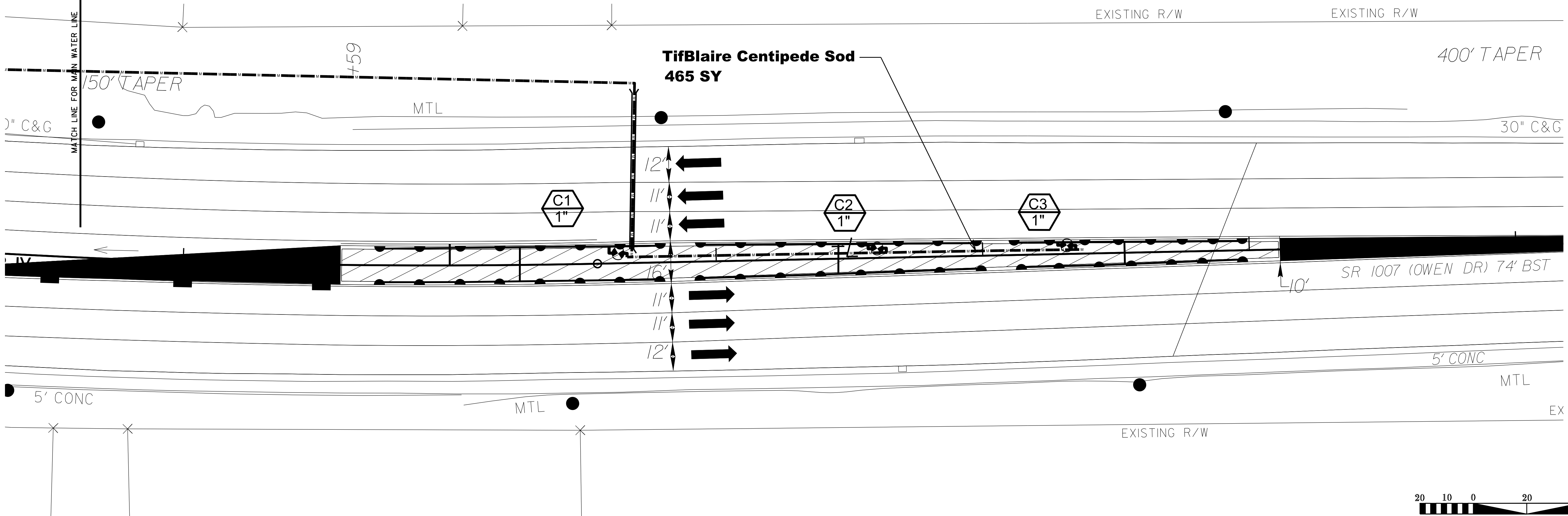
Roadside Enhancements



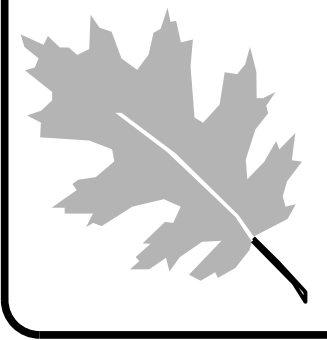
T.I.P. #	W-5514
WBS #	
FED I.D. #	
sheet no :	total sheet no :
I-05	24



KEY	
	4" PVC Sleeve (proposed)
	4" PVC Sleeve (existing)
	90° Pop-up Spray Head
	180° Pop-up Spray Head
	Back Flow Preventer
	Battery Controller
	Drip Line Irrigation
	Drip Valve
	Electric Control Valve
	1" Lateral Line
	11#2" Main Line
	Valve Station Designation
	Water Meter (provided by city)



2025/11/15 10:55 AM C:\GIS\PROJECTS\W-5514\DWG\W-5514-08.dwg



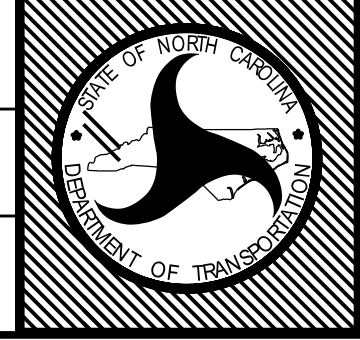
NCDOT - Roadside Environmental Unit
 Aesthetic Engineering Section
 1557 Mail Service Center Raleigh NC 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

W-5514 Owen Dr
 Landscape Development Plan
 Fayetteville NC

RN Kopetsky

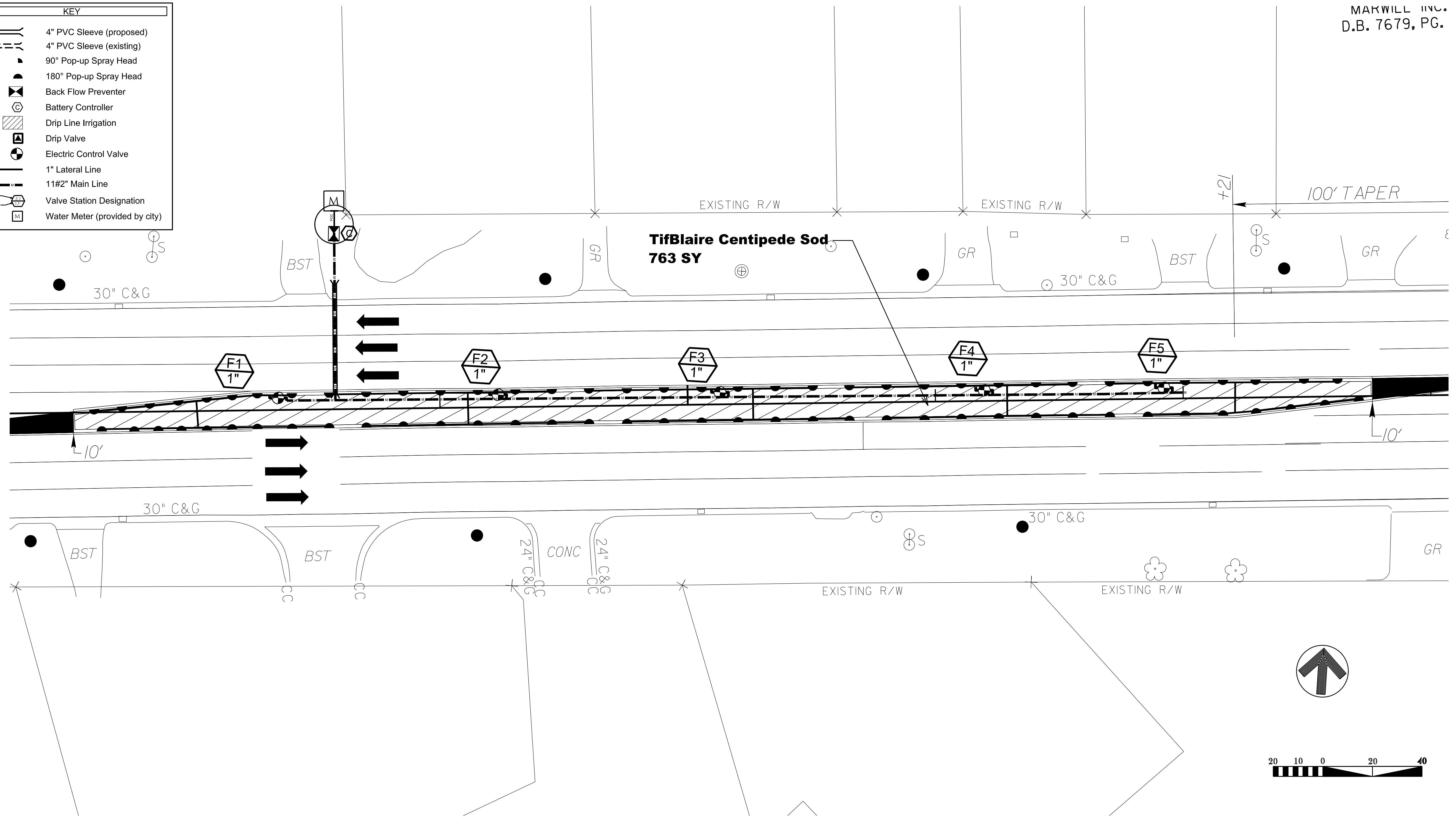
sheet description:
 pref. design date : Dec/2016
 checked by & date :
 final design date :

Roadside Enhancements

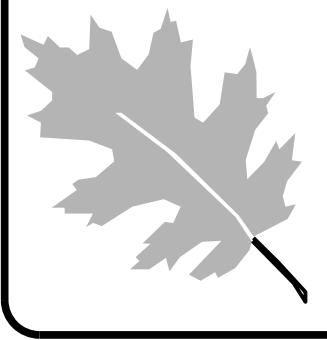


T.I.P. # W-5514
 WBS #
 FED I.D. #
 sheet no : I-08 total sheet no : 24

KEY	
	4" PVC Sleeve (proposed)
	4" PVC Sleeve (existing)
	90° Pop-up Spray Head
	180° Pop-up Spray Head
	Back Flow Preventer
	Battery Controller
	Drip Line Irrigation
	Drip Valve
	Electric Control Valve
	1" Lateral Line
	1 1/2" Main Line
	Valve Station Designation
	Water Meter (provided by city)



2025/11/25 10:55 AM C:\GIS\PROJECTS\W-5514\DWG\W-5514-11.dwg



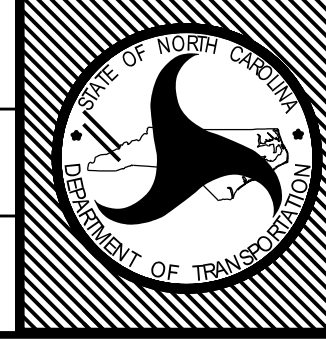
NCDOT - Roadside Environmental Unit
Aesthetic Engineering Section
1557 Mail Service Center Raleigh NC 27699-1557
ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

W-5514 Owen Dr
Landscape Development Plan
Fayetteville NC

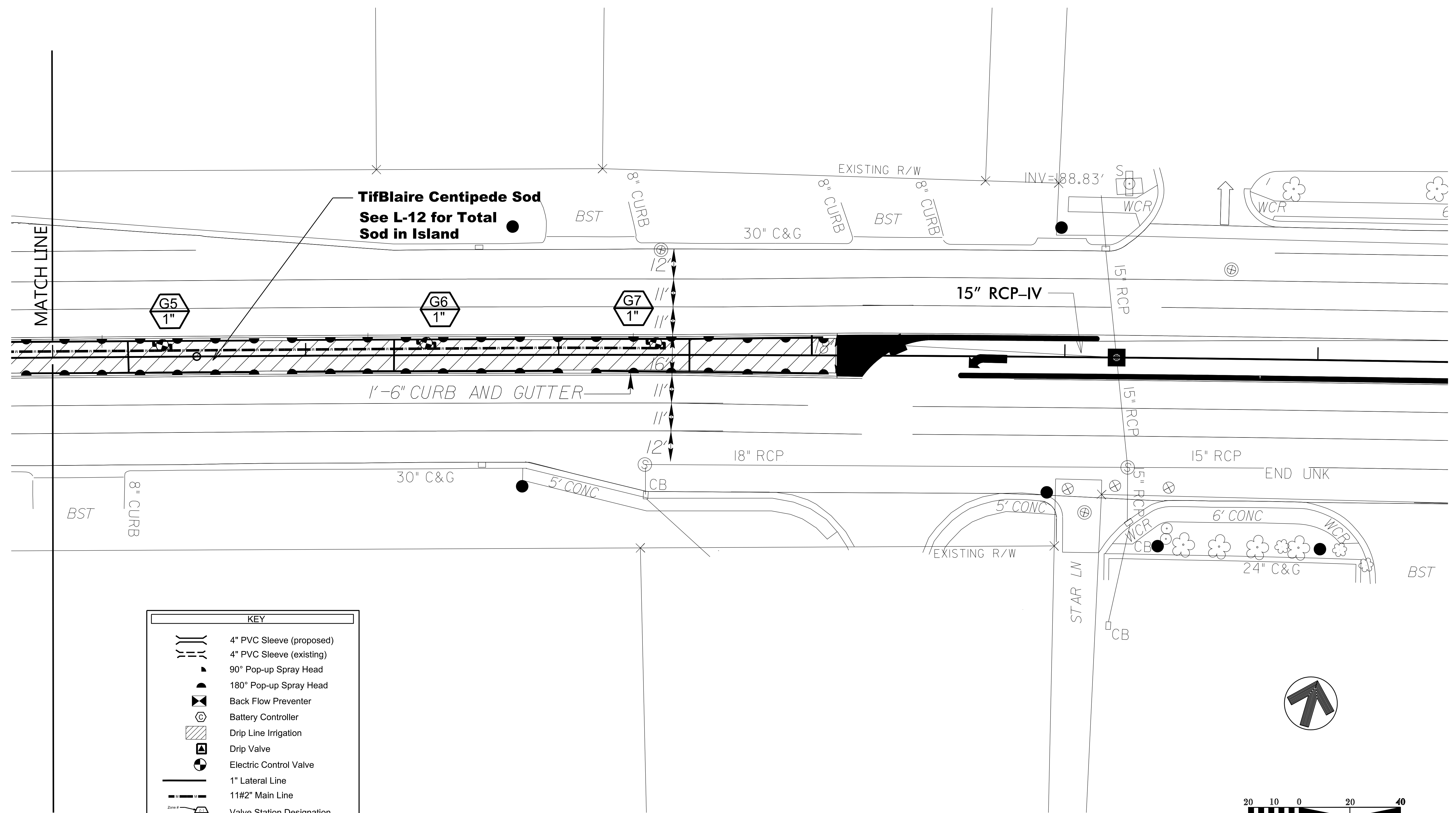
RN Kopetsky

pref. design date :	Dec/2016
checked by & date :	
final design date :	

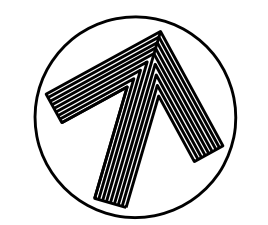
Roadside Enhancements



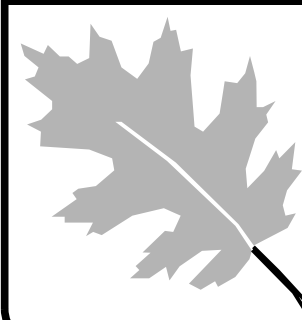
T.I.P. #	W-5514
WBS #	
FED I.D. #	
sheet no :	total sheet no :
I-11	24



KEY	
	4" PVC Sleeve (proposed)
	4" PVC Sleeve (existing)
	90° Pop-up Spray Head
	180° Pop-up Spray Head
	Back Flow Preventer
	Battery Controller
	Drip Line Irrigation
	Drip Valve
	Electric Control Valve
	1" Lateral Line
	1 1/2" Main Line
	Valve Station Designation
	Water Meter (provided by city)



C:\p\16647\16647.dwg
 12/1/2016 11:08:14 AM
 C:\p\16647\16647.dwg
 12/1/2016 11:08:14 AM
 C:\p\16647\16647.dwg

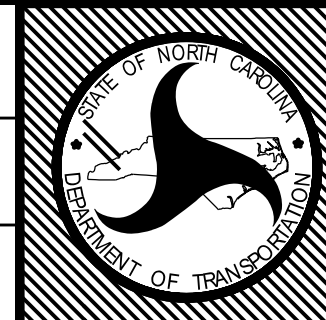


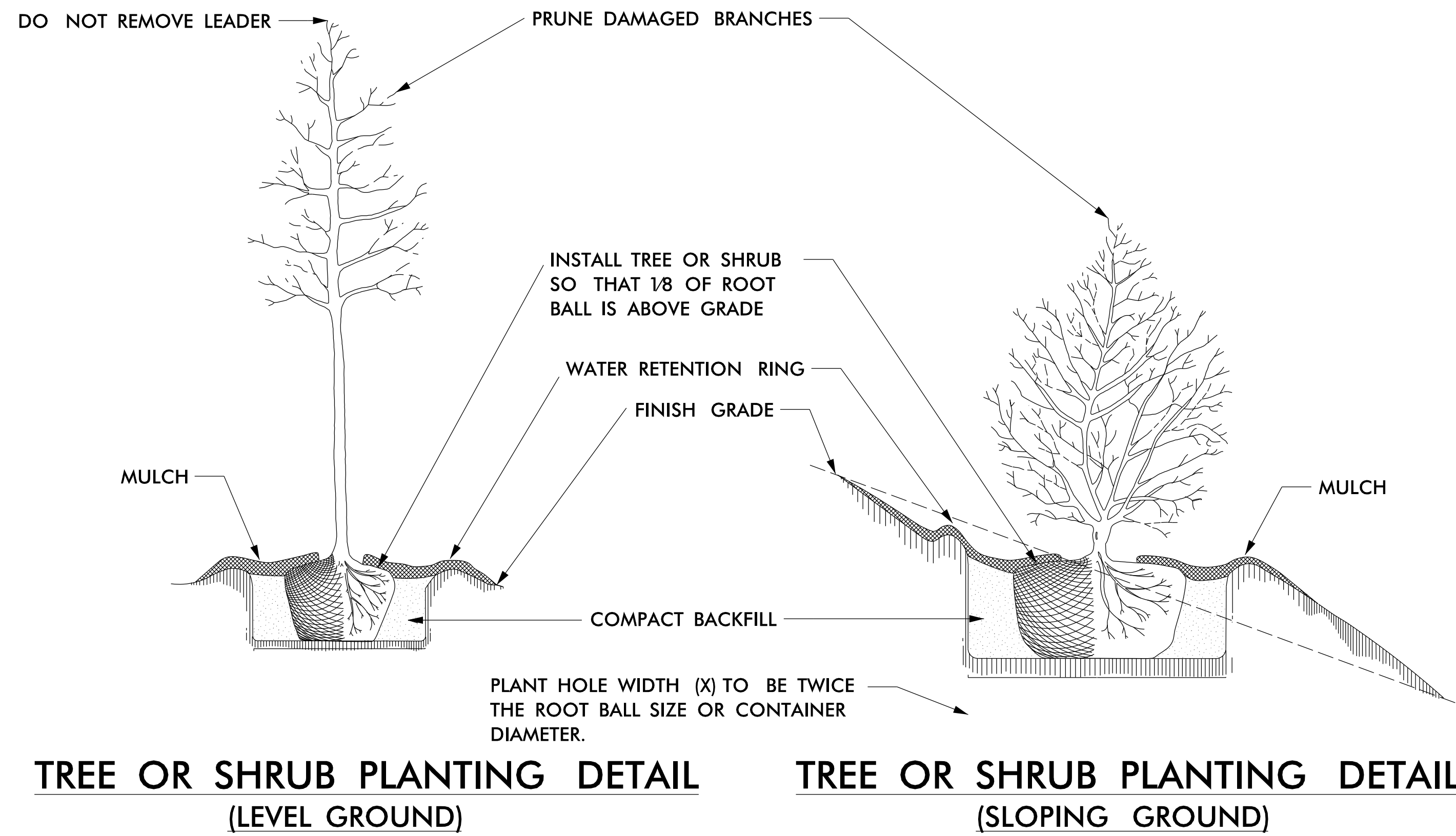
NCDOT - Roadside Environmental Unit
 Aesthetic Engineering Section
 1557 Mail Service Center Raleigh NC 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

W-5514 Owen Dr
Landscape Development Plan
Fayetteville NC

RN Kopetsky

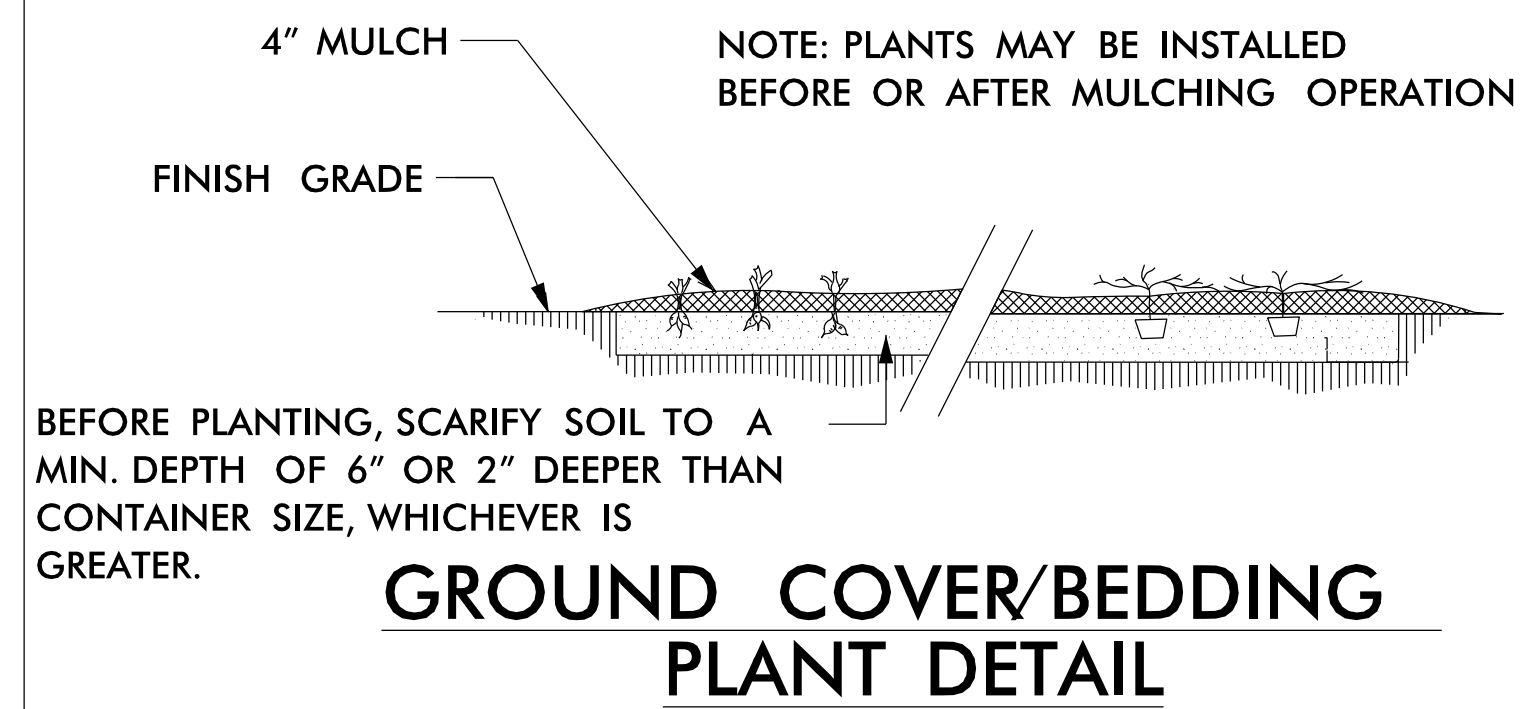
sheet description:	pref. design date :	Dec/2016	Roadside Enhancements	T.I.P. #	W-5514
	checked by & date :			WBS #	
	final design date :			FED I.D. #	
				sheet no :	I-13
				total sheet no :	24



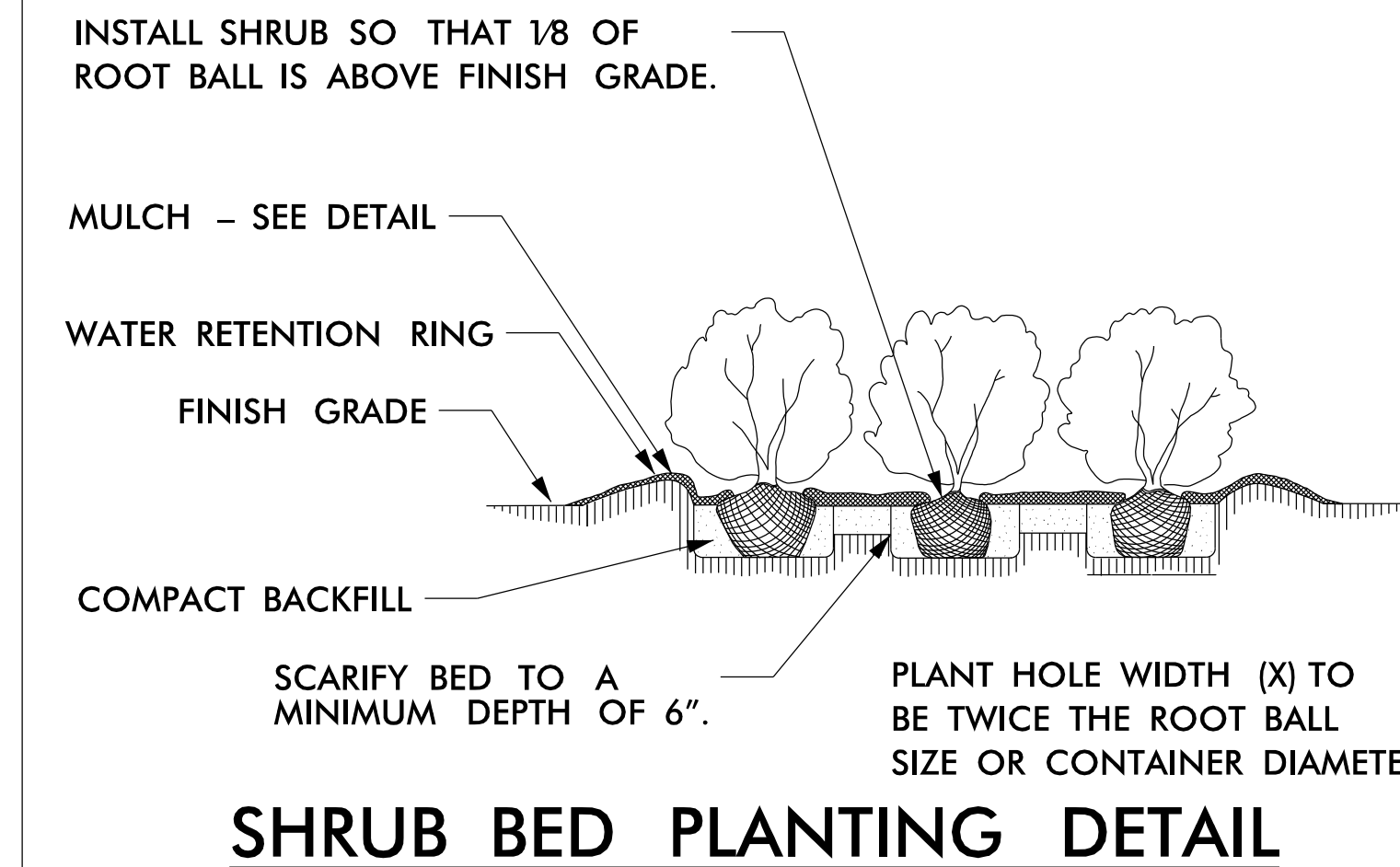


TREE OR SHRUB PLANTING DETAIL
(LEVEL GROUND)

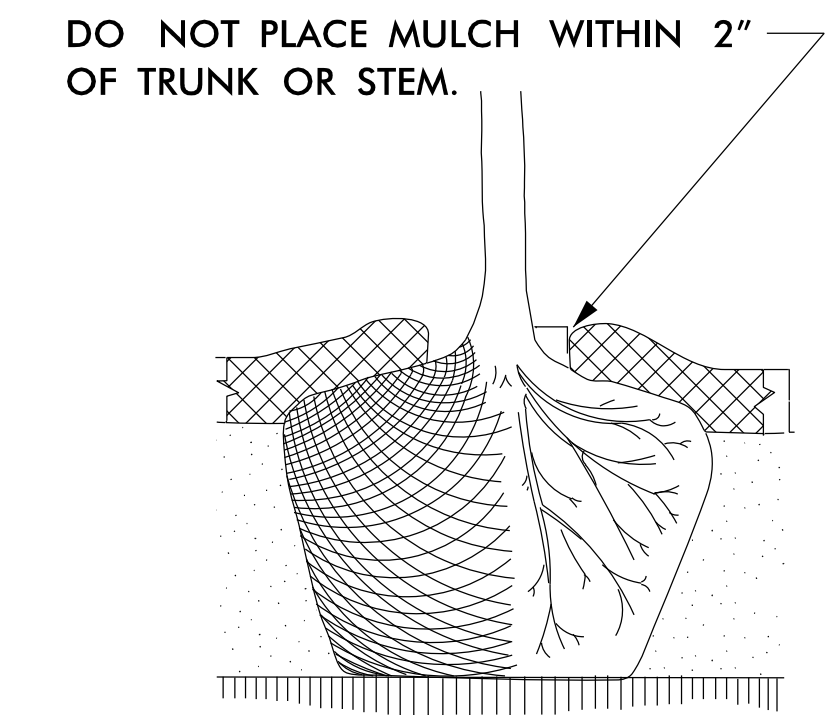
TREE OR SHRUB PLANTING DETAIL
(SLOPING GROUND)



GROUND COVER/BEDDING PLANT DETAIL

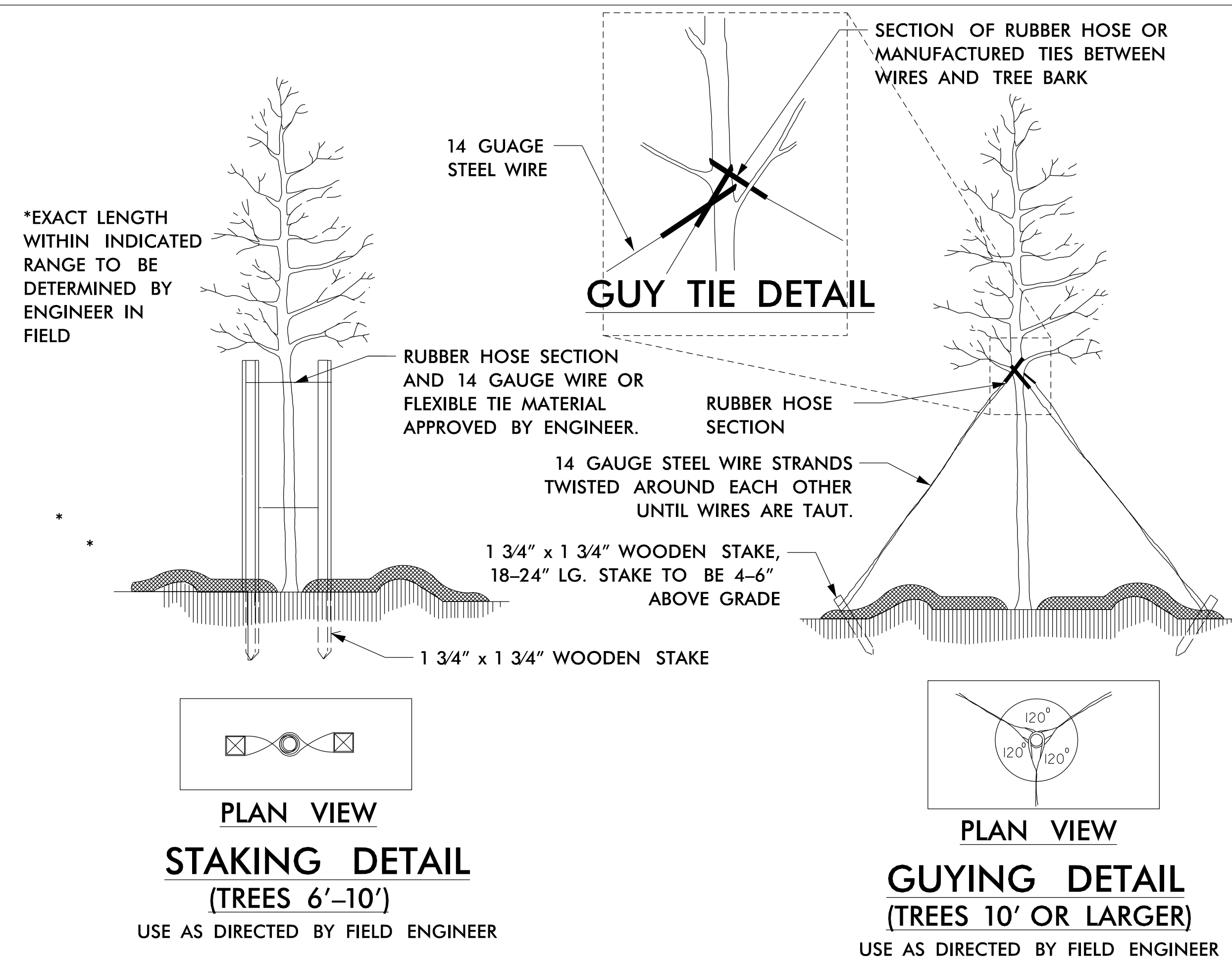


SHRUB BED PLANTING DETAIL



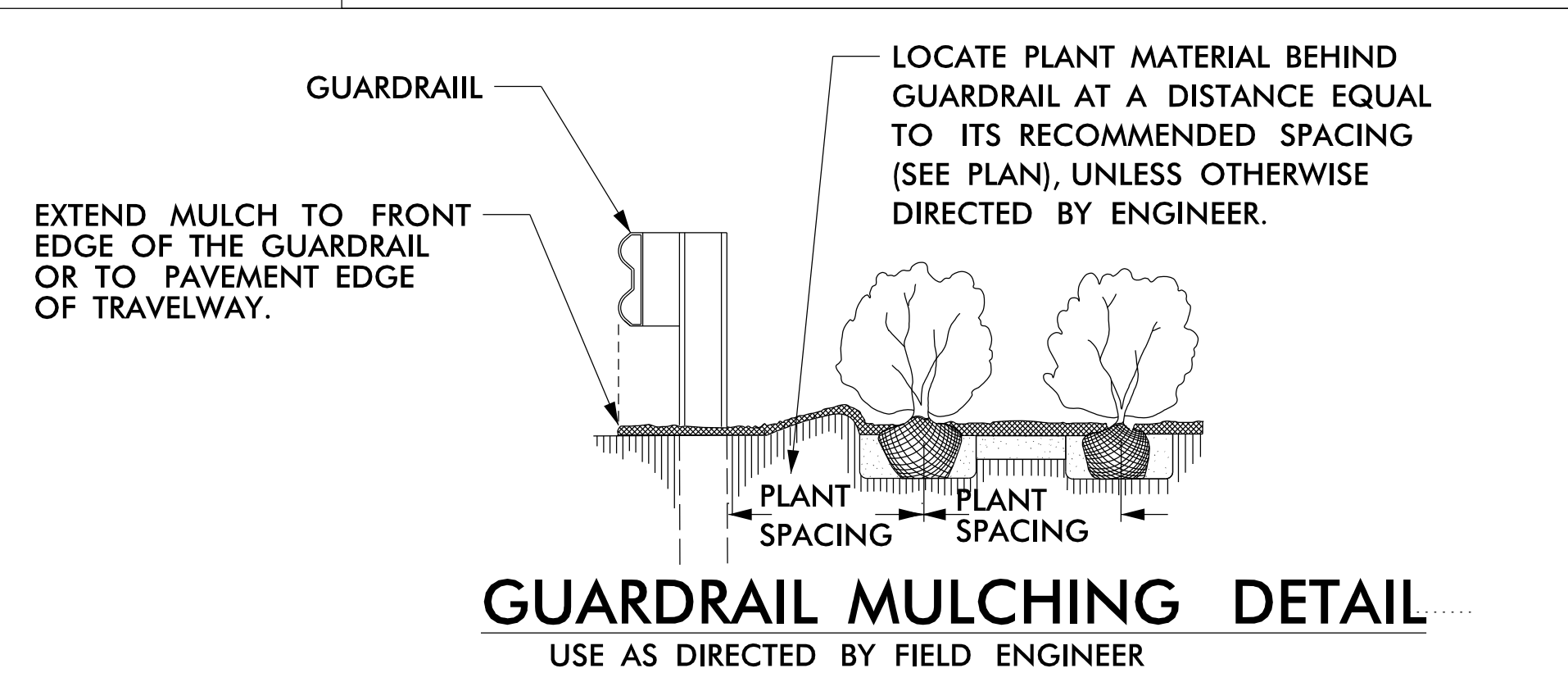
MULCH DETAIL

- 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.

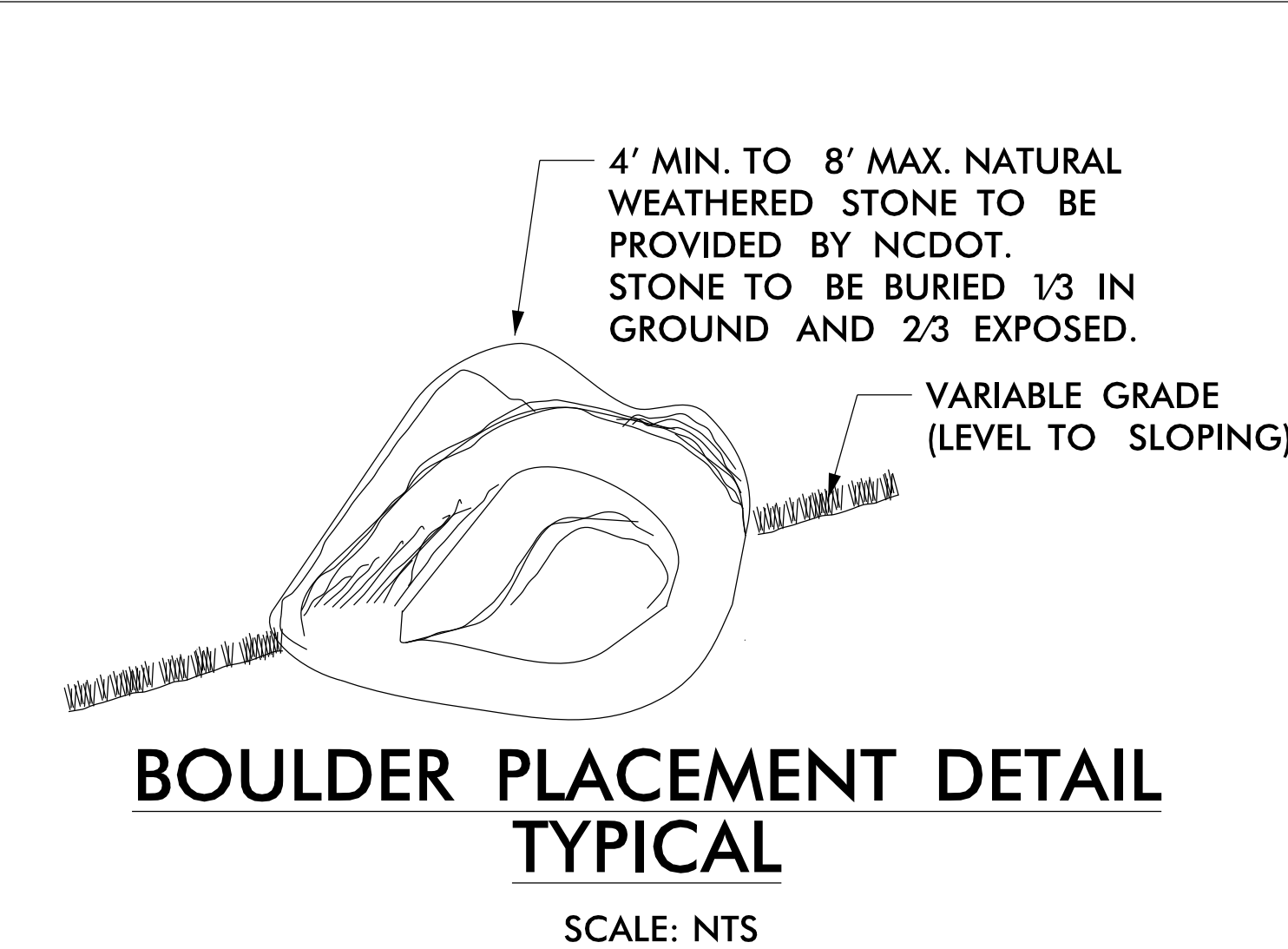


PLAN VIEW
STAKING DETAIL
(TREES 6'-10')

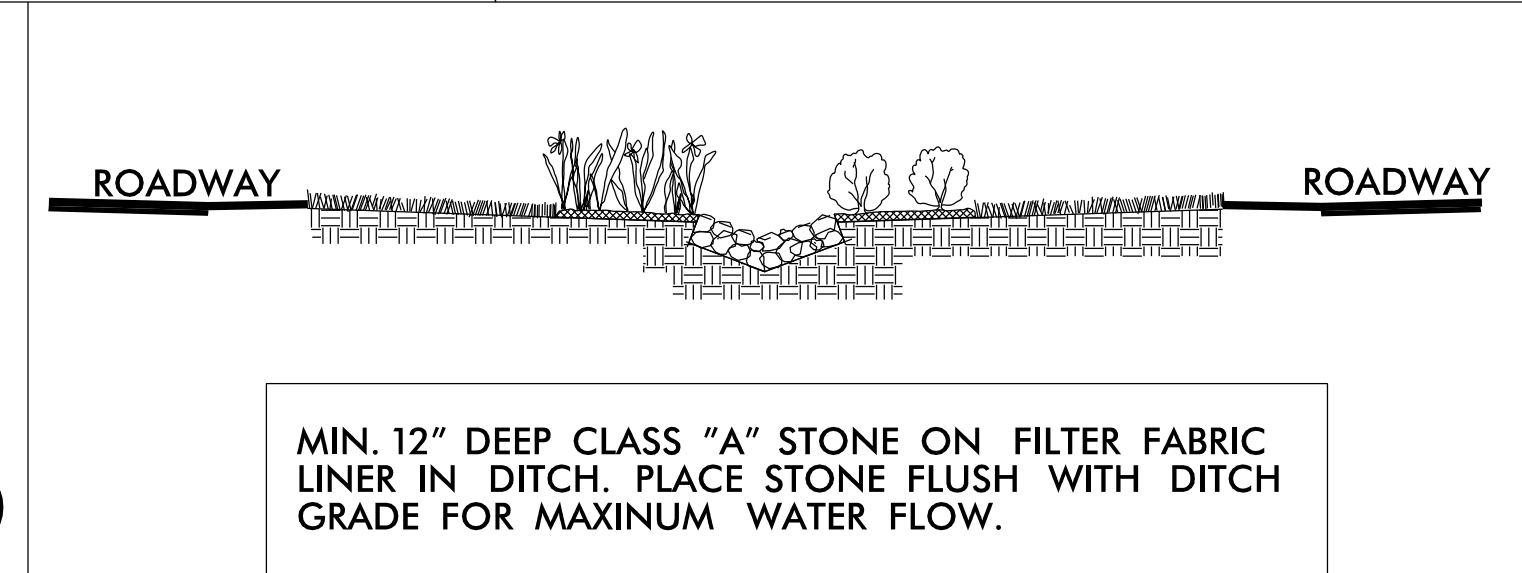
PLAN VIEW
GUYING DETAIL
(TREES 10' OR LARGER)



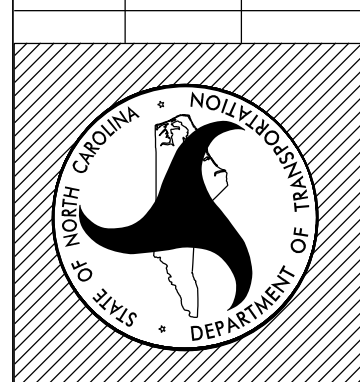
GUARDRAIL MULCHING DETAIL
USE AS DIRECTED BY FIELD ENGINEER

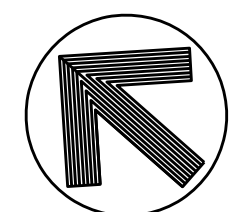
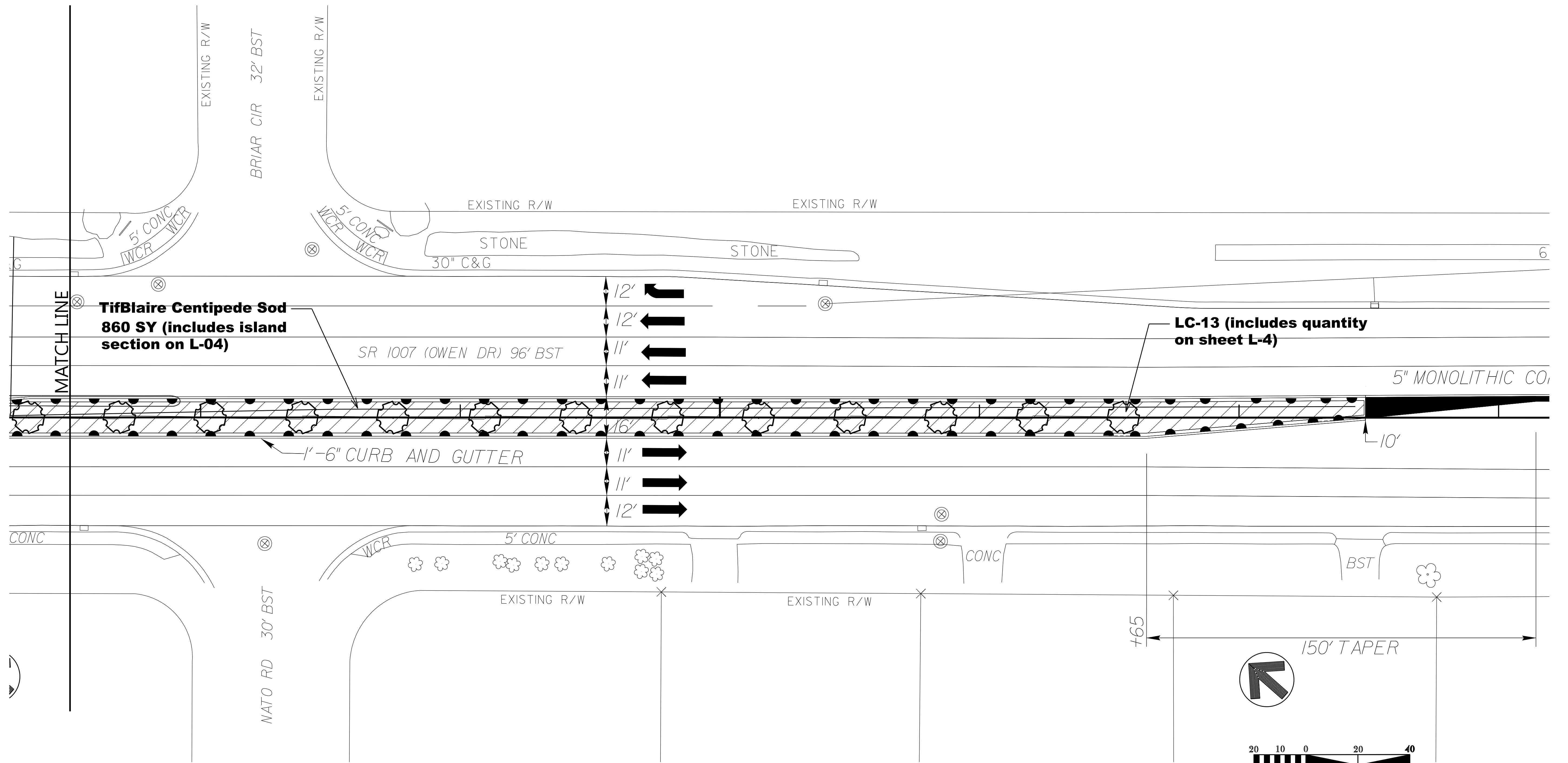


BOULDER PLACEMENT DETAIL
TYPICAL
SCALE: NTS



CLASS "A" STONE
DITCH LINING DETAIL





2025/11/18 10:55:55 AM C:\Users\james\Documents\Projects\W-5514\Drawings\Roadside\Roadside.dwg



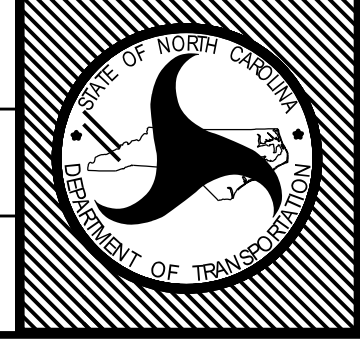
NCDOT - Roadside Environmental Unit
 Aesthetic Engineering Section
 1557 Mail Service Center Raleigh NC 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

W-5514 Owen Dr
 Landscape Development Plan
 Fayetteville NC

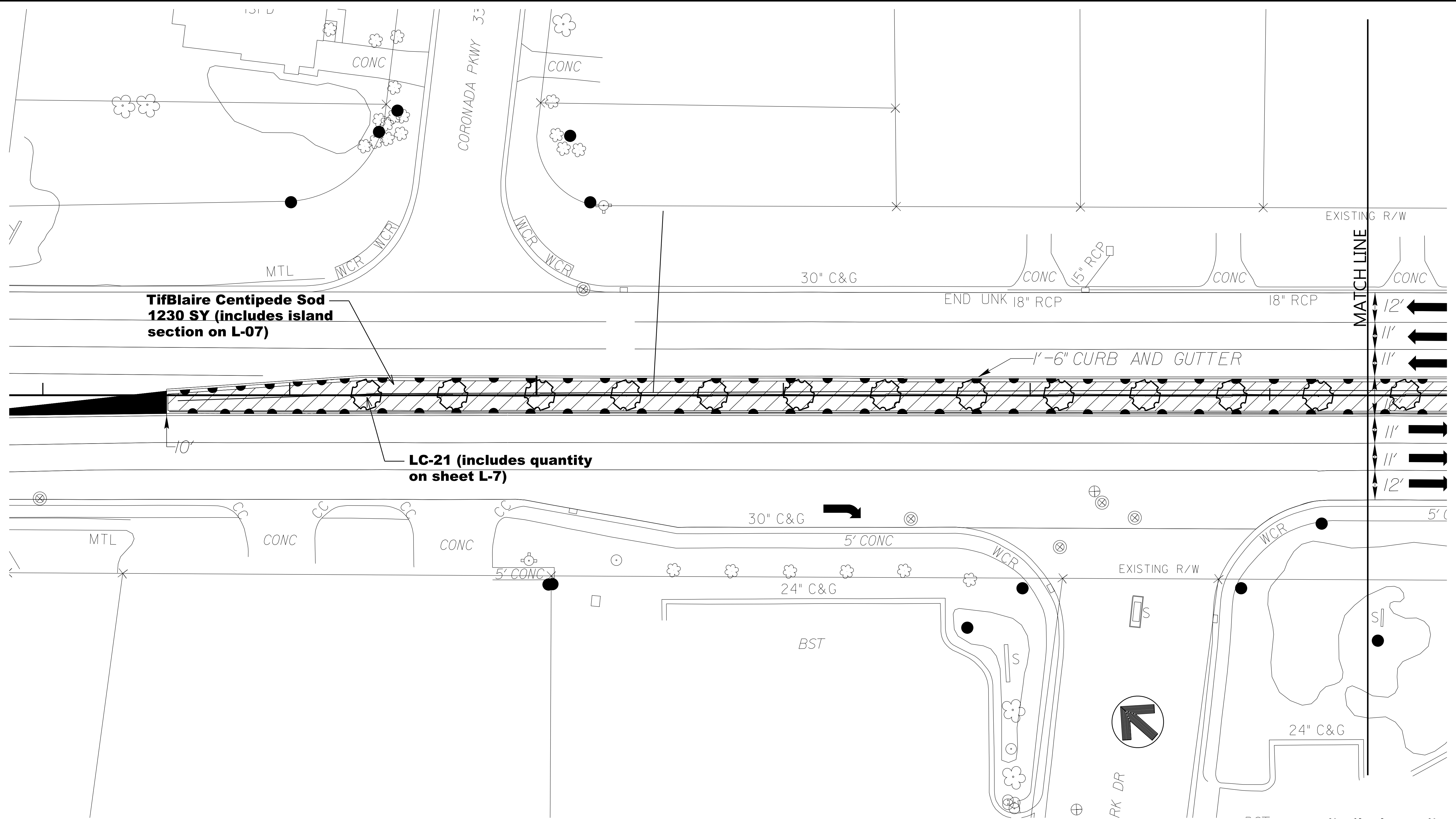
RN Kopetsky

sheet description:	pref. design date : Dec/2016
	checked by & date :
	final design date :

Roadside Enhancements



T.I.P. #	W-5514
WBS #	
FED I.D. #	
sheet no :	total sheet no :
L-05	24



**TifBlaire Centipede Sod
1230 SY (includes island
section on L-07)**

**LC-21 (includes quantity
on sheet L-7)**



2025/11/25 10:55 AM C:\GIS\PROJECTS\W-5514\DWG\L-06.dwg



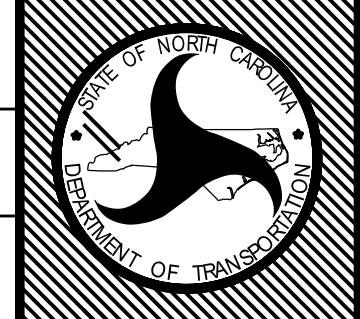
NCDOT - Roadside Environmental Unit
Aesthetic Engineering Section
1557 Mail Service Center Raleigh NC 27699-1557
ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

**W-5514 Owen Dr
Landscape Development Plan
Fayetteville NC**

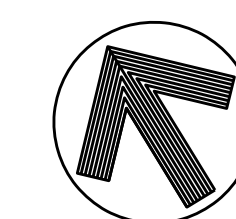
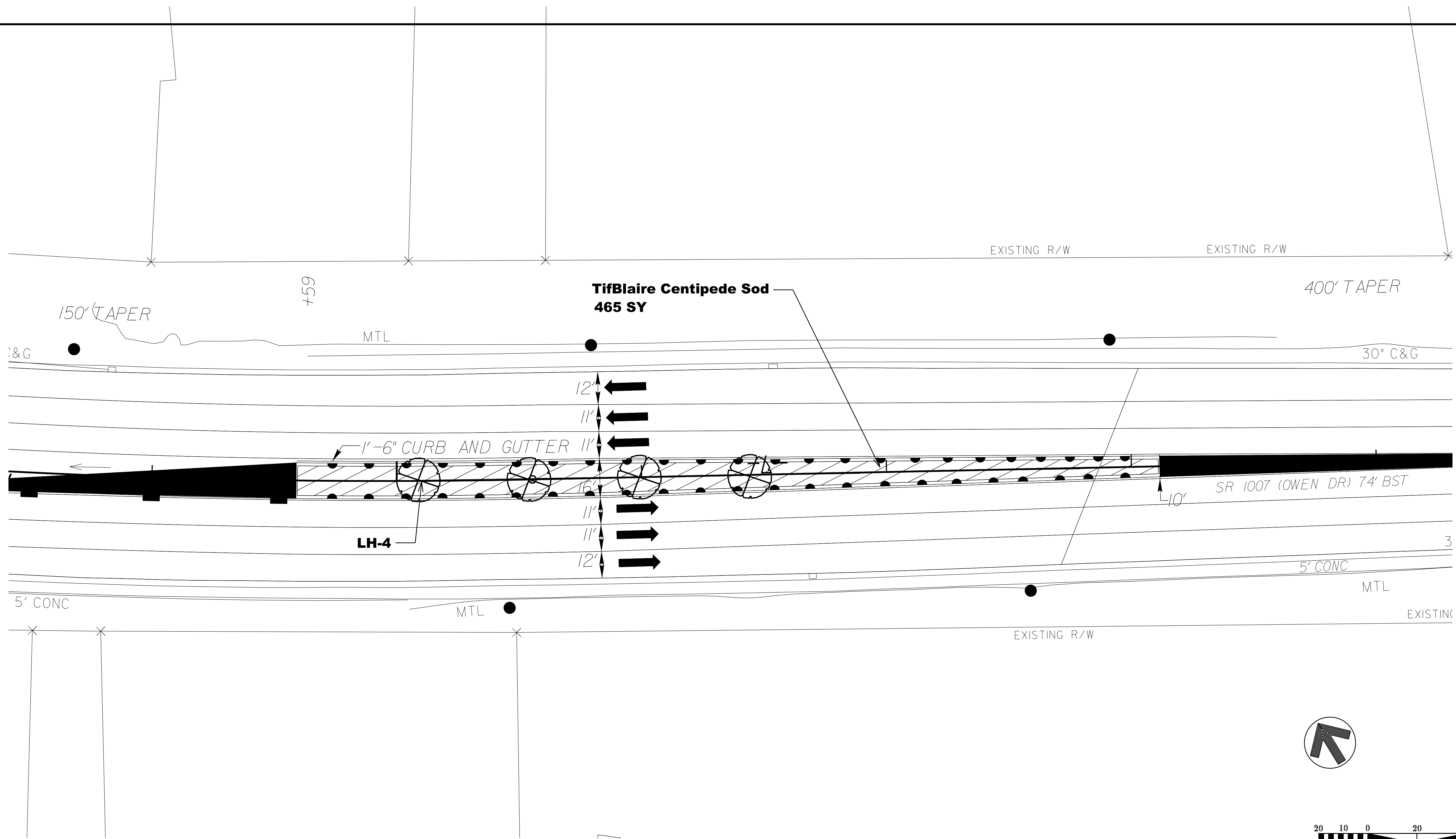
RN Kopetsky

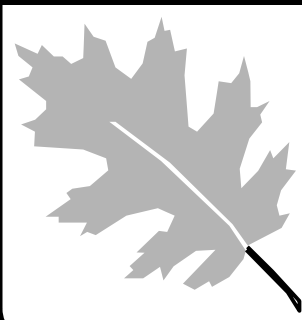
sheet description:	pref. design date :	Dec/2016
	checked by & date :	
	final design date :	

Roadside Enhancements



T.I.P. #	W-5514
WBS #	
FED I.D. #	
sheet no :	total sheet no :
L-06	24





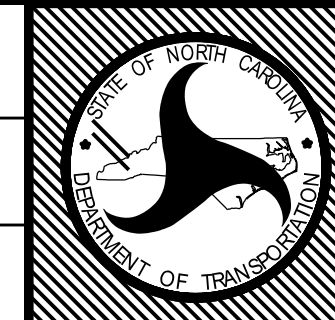
NCDOT - Roadside Environmental Unit
 Aesthetic Engineering Section
 1557 Mail Service Center Raleigh NC 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

W-5514 Owen Dr
 Landscape Development Plan
 Fayetteville NC

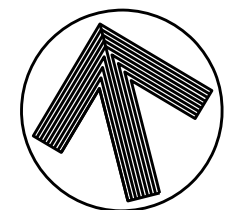
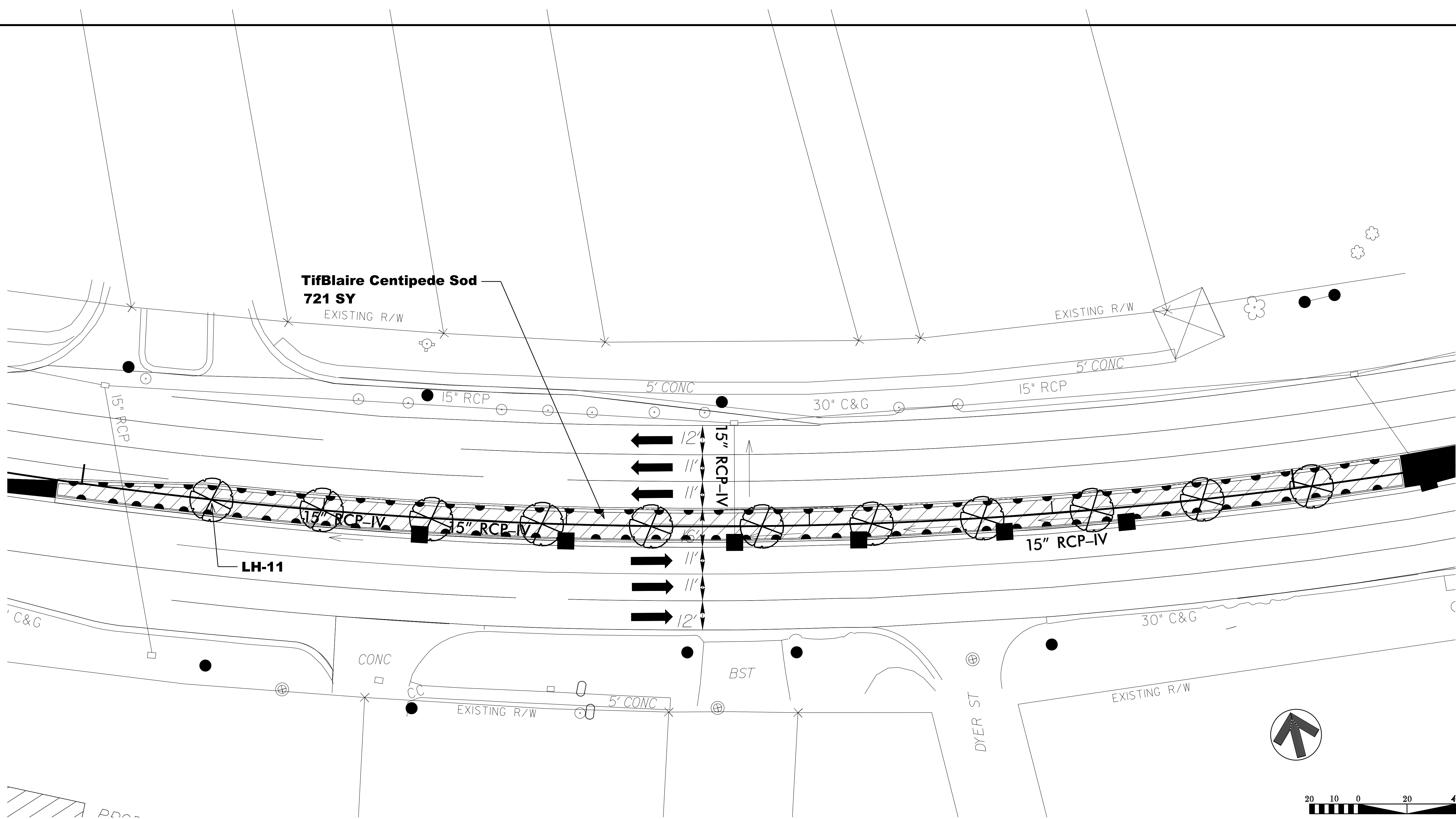
RN Kopetsky

sheet description:	pref. design date : Dec/2016
	checked by & date :
	final design date :

Roadside Enhancements



T.I.P. #	W-5514
WBS #	
FED I.D. #	
sheet no :	total sheet no :
L-08	24



2025/11/25 10:55 AM C:\GIS\PROJECTS\W-5514\DWG\L-10.dwg



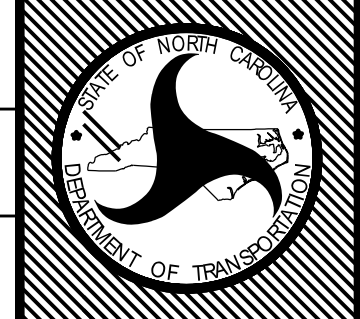
NCDOT - Roadside Environmental Unit
 Aesthetic Engineering Section
 1557 Mail Service Center Raleigh NC 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

W-5514 Owen Dr
 Landscape Development Plan
 Fayetteville NC

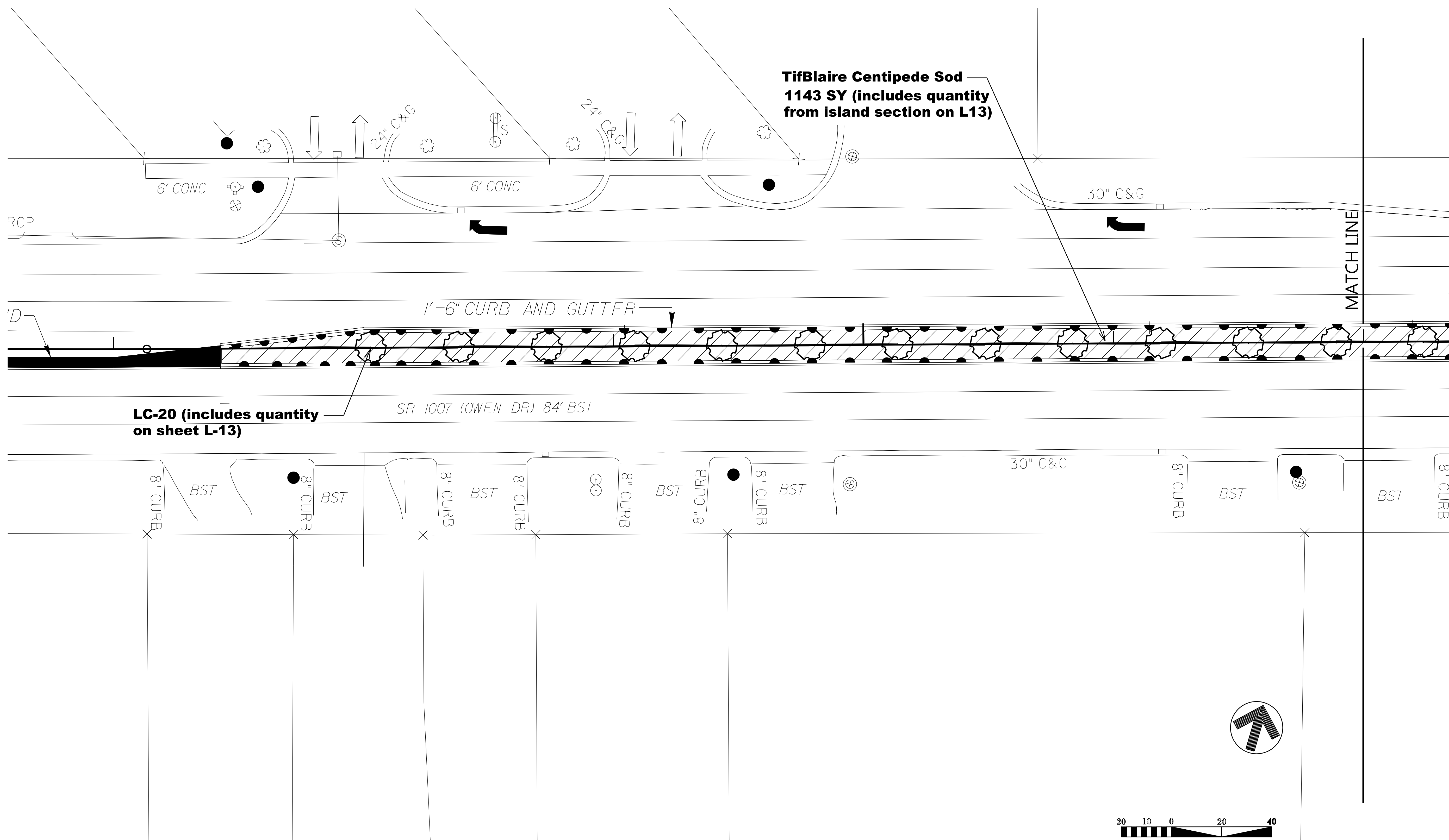
RN Kopetsky

pref. design date :	Dec/2016
checked by & date :	
final design date :	

Roadside Enhancements



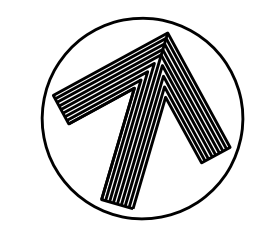
T.I.P. #	W-5514
WBS #	
FED I.D. #	
sheet no :	total sheet no :
L-10	24



TifBlaire Centipede Sod
1143 SY (includes quantity
from island section on L13)

LC-20 (includes quantity
on sheet L-13)

SR 1007 (OWEN DR) 84' BST



2025/11/18 10:58:55 AM C:\Users\james\Documents\2025\11\18\20251118105855.dwg

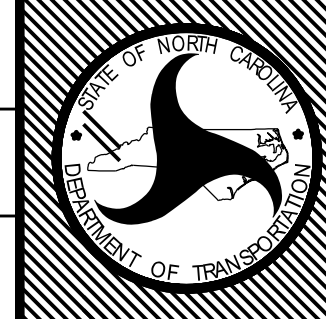


NCDOT - Roadside Environmental Unit
 Aesthetic Engineering Section
 1557 Mail Service Center Raleigh NC 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

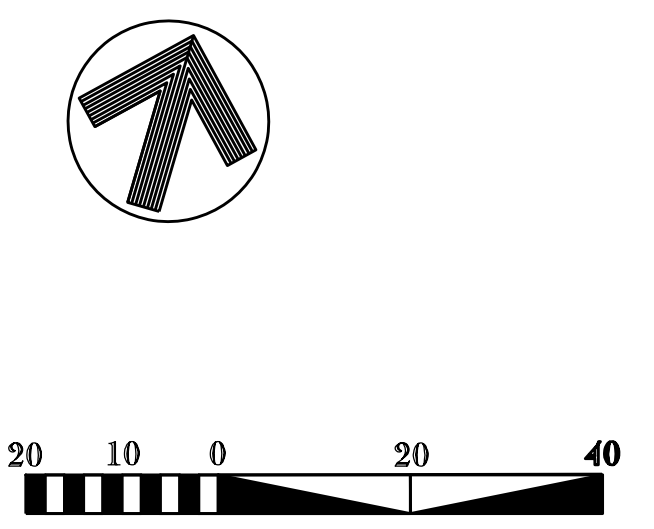
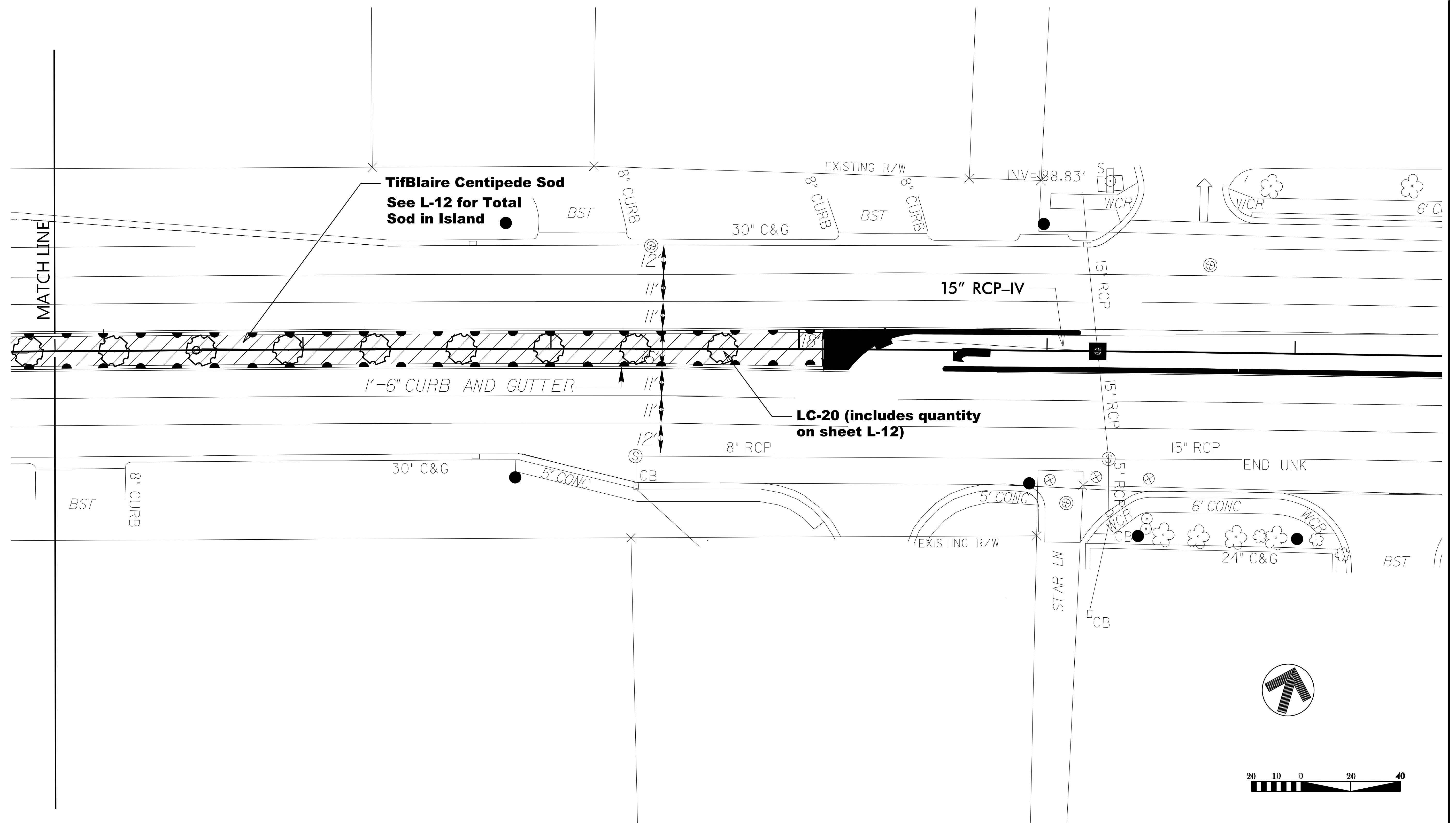
W-5514 Owen Dr
 Landscape Development Plan
 Fayetteville NC

RN Kopetsky

sheet description:	pref. design date : Dec/2016	Roadside Enhancements
	checked by & date :	
	final design date :	



T.I.P. #	W-5514
WBS #	
FED I.D. #	
sheet no :	total sheet no :
L-12	24



2025 RELEASE UNDER E.O. 14176



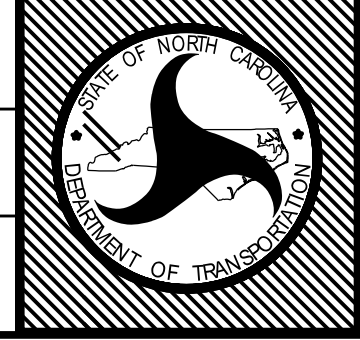
NCDOT - Roadside Environmental Unit
 Aesthetic Engineering Section
 1557 Mail Service Center Raleigh NC 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
https://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/

W-5514 Owen Dr
 Landscape Development Plan
 Fayetteville NC

RN Kopetsky

pref. design date :	Dec/2016
checked by & date :	
final design date :	

Roadside Enhancements



T.I.P. #	W-5514
WBS #	
FED I.D. #	
sheet no :	total sheet no :
L-13	24