

Transportation + Water Resources Urban Development + Geomatics 720 Corporate Drive Raleigh, NC 27607 (v) 919.782.0495 (f) 919.782.9672 www.wkdickson.com NC. LICENSE NO. F-0374 FULL SCALE: 1"=30' 30 2" = FULL SCALE 1" = HALF SCALE

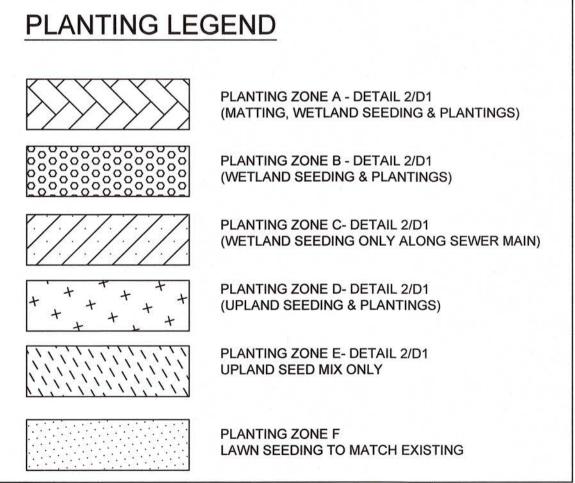
7-28-3020

PROJ. DATE: JUNE 2019 Q.C.: TLM Q.C. DATE: MAY 2019

DRAWING NUMBER:

20170225.00.RA





CONSTRUCTION AT STREAM BANK NOTE:

STREAM CHANNEL

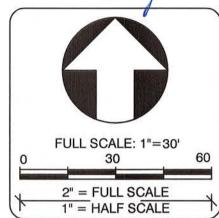
CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN STREAM BANK BELOW ORDINARY HIGH WATER MARK (OHWM) UNLESS OTHERWISE DIRECTED BY ENGINEER.

SEE DETAIL 4 / D1 FOR BANK STABILIZATION PLANTINGS ABOVE HIGH WATER MARK.

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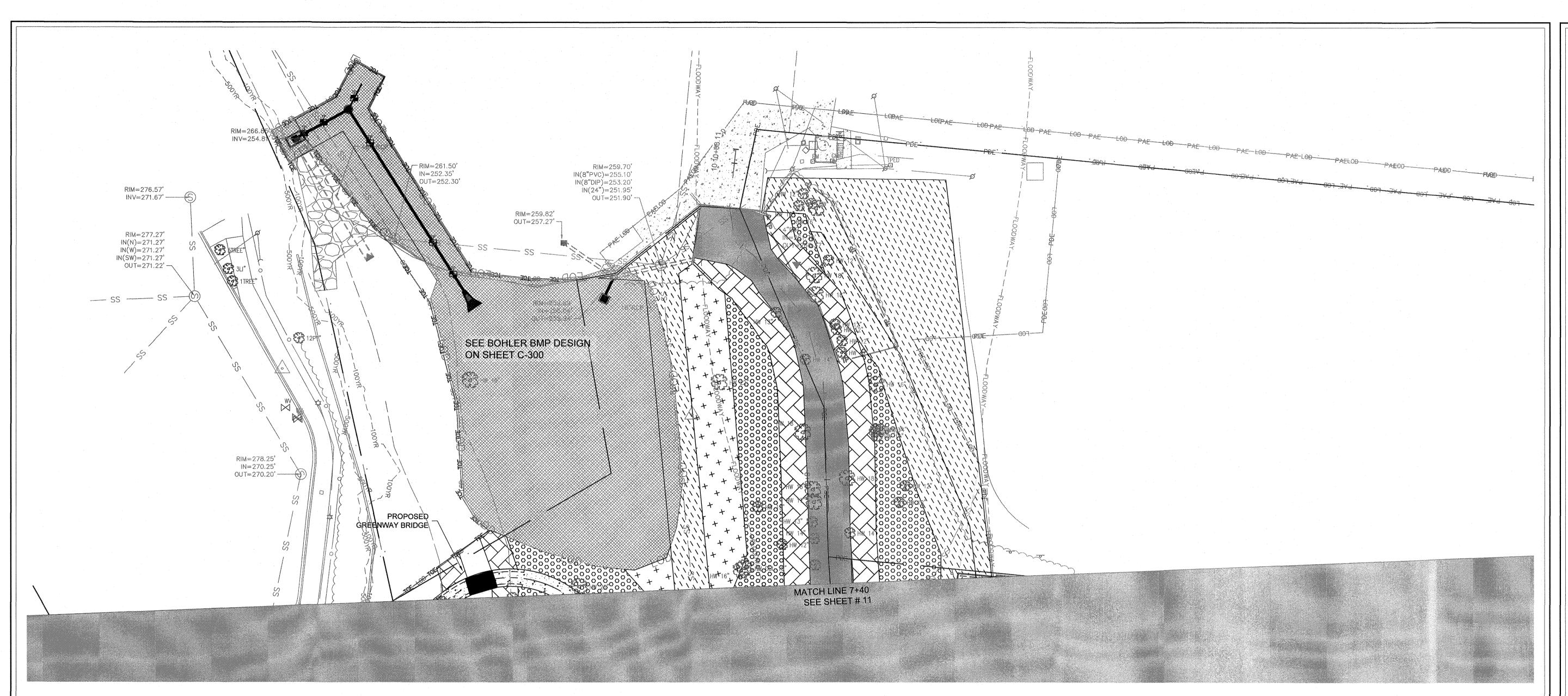


ELLIOTT STORAGE DESIGN OF CHAPEL HILL, NORTH CAR

PROJ. DATE: JUNE 2019 Q.C. DATE: MAY 2019

DRAWING NUMBER:

PROJ. No.: 20170225.00.RA



PLANTING LEGEND PLANTING ZONE A - DETAIL 2/D1 (MATTING, WETLAND SEEDING & PLANTINGS) PLANTING ZONE B - DETAIL 2/D1 (WETLAND SEEDING & PLANTINGS) PLANTING ZONE C- DETAIL 2/D1 (WETLAND SEEDING ONLY ALONG SEWER MAIN) PLANTING ZONE D- DETAIL 2/D1 (UPLAND SEEDING & PLANTINGS) PLANTING ZONE E- DETAIL 2/D1 UPLAND SEED MIX ONLY PLANTING ZONE F LAWN SEEDING TO MATCH EXISTING

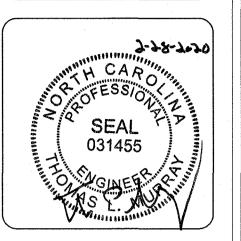
CONSTRUCTION AT STREAM BANK NOTE:

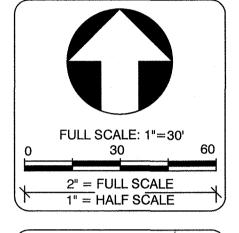
CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN STREAM BANK BELOW ORDINARY HIGH WATER MARK UNLESS OTHERWISE DIRECTED BY ENGINEER. ORDINARY HIGH WATER MARK ELEVATION IS NOTED AS PROPOSED TOP OF BANK ELEVATION ON SHEETS 4-6.

SEE DETAIL 4 / D1 FOR BANK STABILIZATION PLANTINGS ABOVE HIGH WATER MARK.

community infrastructure consultants
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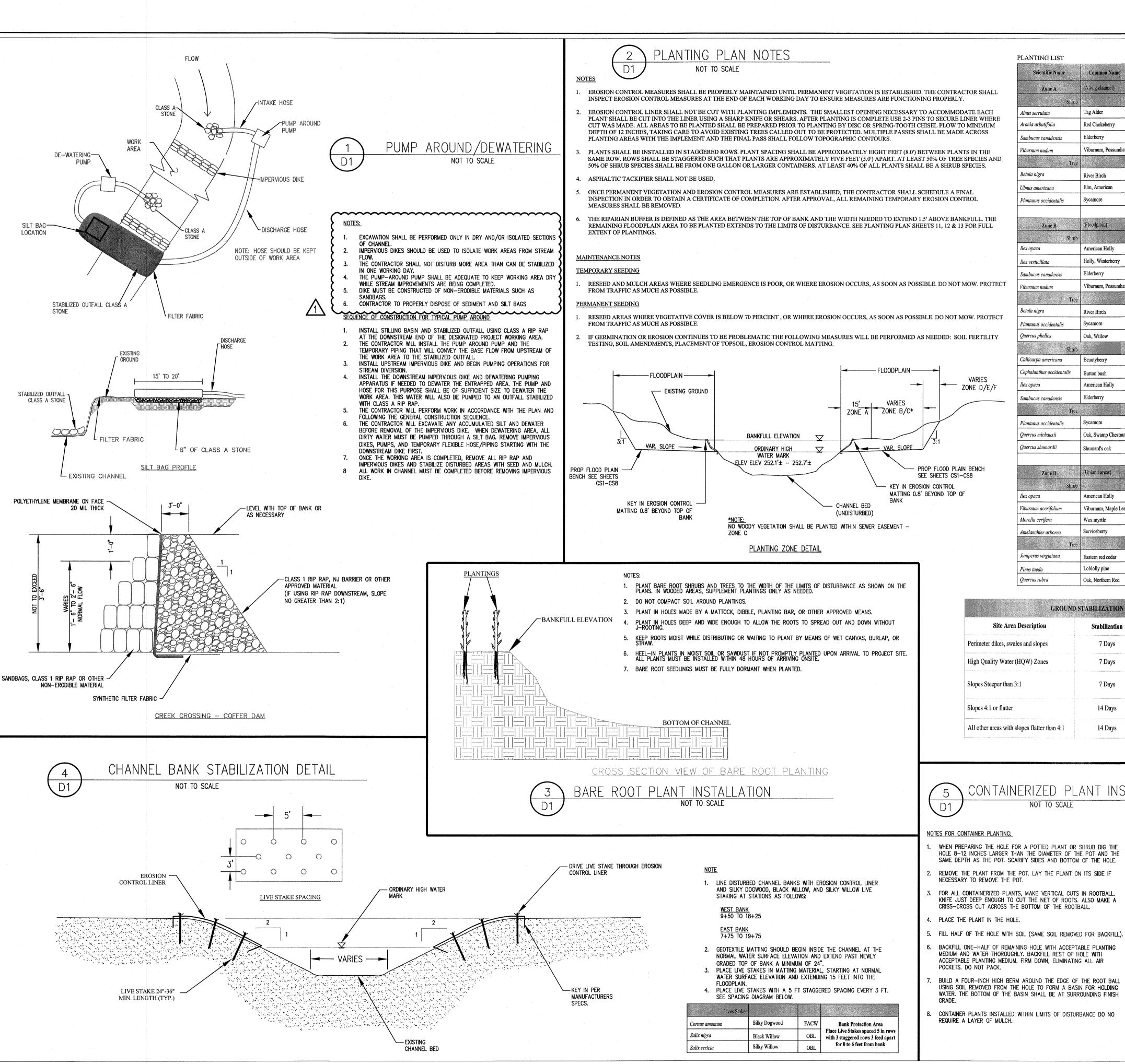
ELLIOTT STORAGE DESIGN OF CHAPEL HILL, NORTH CAROLINA

ELLIOT TOWN OF CHAF

PROJ. DATE: JUNE 2019
Q.C.: TLM
Q.C. DATE: MAY 2019
DRAWING NUMBER:

12

PROJ. No.: 20170225.00.RA



Scientific Name	Common Name	Stems/ Acre	Stock Type*	Indicator Status	
Zone A	(Along channel)				
Shrub					
Alnus serrulata	Tag Alder	50	CN	OBL	
Aronia arbutifolia	Red Chokeberry	50	CN	FACW	
Sambucus canadensis	Elderberry	50	CN	FAC	"Zone A - 0 to 15 feet along channel banks
Viburnum nudum	Viburnum, Possumhaw	50	CN	OBL	live stakes along top of bank
Tree					spacing for Zone A is
Betula nigra	River Birch	75	BR	FACW	o x o teet
Ulmus americana	Elm, American	100	BR	FACW	
Plantanus occidentalis	Sycamore	100	BR	FACW	
-					
Zone B	(Floodplain)				
Shrub	10,142				
Пех ораса	American Holly	50	CN	FACU	
Ilex verticillata	Holly, Winterberry	50	CN	FACW	
Sambucus canadensis	Elderberry	50	CN	FAC	"Zone B1 - Occasional
Viburnum nudum	Viburnum, Possumhaw	50	CN	OBL	Inundation from 15
Tree					disturbed floodplain
Betula nigra	River Birch	100	BR	FACW	spacing for Zone B is 8 x 8 feet"
Plantanus occidentalis	Sycamore	100	BR	FACW	
Quercus phellos	Oak, Willow	100	BR	FAC	,
Shrub					
Callicarpa americana	Beautyberry	50	CN	FACU	
Cephalanthus occidentalis	Button bush	50	CN	OBL	
Ilex opaca	American Holly	50	CN	FACU	"Zone B2 - Frequent
Sambucus canadensis	Elderberry	50	CN	FAC	inundation from 15 feet to limit of
Tree					disturbed floodplain spacing for Zone B is
Plantanus occidentalis	Sycamore	100	BR	FACW	8 x 8 feet"
Quercus michauxii	Oak, Swamp Chestnut	100	BR	FACW	, '
Quercus shumardii	Shumard's oak	100	BR	FAC	
					,
Zone D	(Upland areas)				
Shrub					
Ilex opaca	American Holly	100	CN	FACU	
Viburnum acerifolium	Viburnum, Maple Leaf	100	CN	FACU	
Morella cerifera	Wax myrtle	100	CN	FAC	,
Amelanchier arborea	Serviceberry	100	CN	FAC	"Zone C - Upland areas spacing for
Tree					Zone C is 8 x 8 feet'
Juniperus virginiana	Eastern red cedar	100	BR	FACU	
Pinus taeda	Loblolly pine	100	BR	FAC	
Quercus rubra	Oak, Northern Red	100	BR	FACU	

Sambucus canadensis	Elderberry	50	CN	FAC	"Zone A - 0 to 15 along channel ba
Viburnum nudum	Viburnum, Possumhaw	50	CN	OBL	live stakes along of bank
Tree					spacing for Zone 8 x 8 feet "
Betula nigra	River Birch	75	BR	FACW	0 4 0 1001
Ulmus americana	Elm, American	100	BR	FACW	,
Plantanus occidentalis	Sycamore	100	BR	FACW	
Zone B	(Floodplain)				
Shrub					
Ilex opaca	American Holly	50	CN	FACU	
Ilex verticillata	Holly, Winterberry	50	CN	FACW	
Sambucus canadensis	Elderberry	50	CN	FAC	"Zone B1 - Occasional
Viburnum nudum	Viburnum, Possumhaw	50	CN	OBL	Inundation from feet to limit of
Tree					disturbed floodp spacing for Zone
Betula nigra	River Birch	100	BR	FACW	8 x 8 feet"
Plantanus occidentalis	Sycamore	100	BR	FACW	
Quercus phellos	Oak, Willow	100	BR	FAC	
Shrub	Arronal Paris				
Callicarpa americana	Beautyberry	50	CN	FACU	
Cephalanthus occidentalis	Button bush	50	CN	OBL	
Ilex opaca	American Holly	50	CN	FACU	"Zone B2 - Frequ
Sambucus canadensis	Elderberry	50	CN	FAC	inundation from feet to limit of
Tree					disturbed floodp spacing for Zone
Plantanus occidentalis	Sycamore	100	BR	FACW	8 x 8 feet"
Quercus michauxii	Oak, Swamp Chestnut	100	BR	FACW	
Quercus shumardii	Shumard's oak	100	BR	FAC	
Zone D	(Upland areas)				
Shrub					
Ilex opaca	American Holly	100	CN	FACU	
Viburnum acerifolium	Viburnum, Maple Leaf	100	CN	FACU	,
Morella cerifera	Wax myrtle	100	CN	FAC	1179
Amelanchier arborea	Serviceberry	100	CN	FAC	"Zone C - Upla areas spacing f
Tree	data.				Zone C is 8 x 8 f
Juniperus virginiana	Eastern red cedar	100	BR	FACU	
Pinus taeda	Loblolly pine	100	BR	FAC	
Quercus rubra	Oak, Northern Red	100	BR	FACU	

NOT TO SCALE

*Planting Stock Type			
LS=Live Stake			
CN=Container (1-3 gal)			
BR=Bare Root			
EEDING LIST			
WE	TLAND SEED MIX (ZONES A	(&B&C)	
Booker Creek Storn	water Improvement Project (A Herbaccous Vegetation Seed		ounds per
Common Name	Scientific Name	Indicator	Percent
ig Bluestem	Andropogon gerardii	FAC	15
shy Broomsedge	Andropogon glomeratus	FACW+	15
ged Sedge	Carex crinata	FACW+	10
l Sedge	Carex lurida	OBL	10
ita seage			
	Carex stricta	OBL	10
ssock Sedge	Carex stricta Elymus virginicus	OBL FAC	10 15
Sussock Sedge Virginia Wildrye Deertongue			
ssock Sedge rginia Wildrye	Elymus virginicus	FAC	15

	vater Improvement Project (Apply at negetation Seed Mix (for all disturbed n		ere)
Common Name	Scientific Name	Percent	Pound
Purple Lovegrass	Eragrostis spectabilis	25	7.5
Virginia Wild Rye	Elymus virginicus	20	6
Deertongue	Dichanthelium clandestinum	25	7.5
Little Blue Stem	Schizachyrium scoparium	10	3
Woolgrass	Scirpus cyperinus	5	1.5
Eastern Gammagrass	Tripsacum dactyloides	15	4.5

Plant Winter Mix

lixes - Booker Creek - Chapel Hill, NC

ebruary 15 through April

Replant with Summer Mix in May

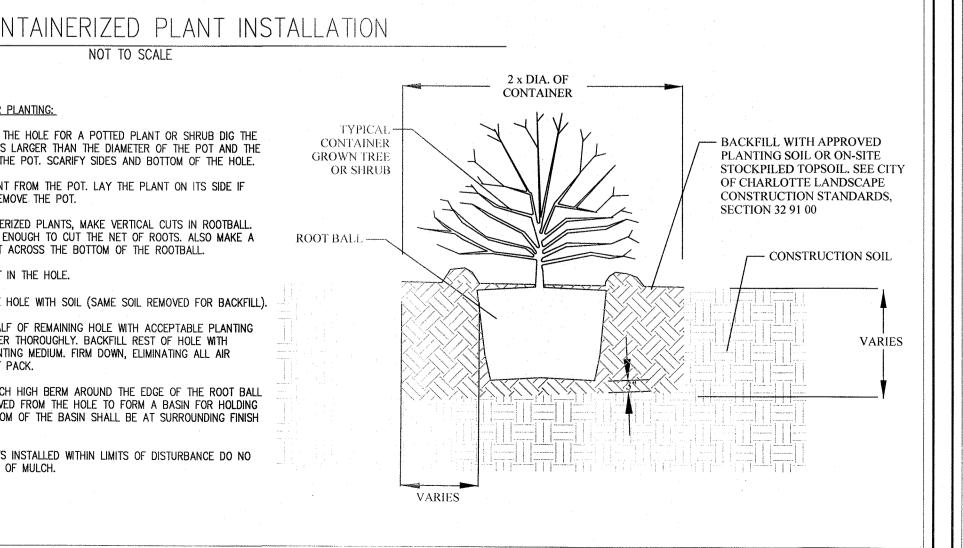
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October through April

TEMPORARY SEEDING LIST

	f	1
May through September	Plant Summer Mix	July 15 through September
· · · · · · · · · · · · · · · · · · ·		Replant with Winter Mix in October
	Seed Winter Mix (Selec	t at least 2)
	Common Name	Scientific Name
Apply at 15 lb/ac	Barley	Hordeum sp.
	Winter Rye	Secale cereale
	Winter Wheat	Triticum sp.
	Oats	Avena sp.
elog de la	Seed Summer Mix (Select	et at least 2)
	Common Name	Scientific Name
Apply at 15 lb/ac	Browntop Millet	Panicum ramosum
	Pearl Millet	Pennisetum glaucum
	Sudangrass	Sorghum bicolor
	"German Foxtail Millet (Foxtail bristlegrass)"	Setaria italica
	Buckwheat	Fagopyrum esculentum
	Japanese Millet	Echinochloa frumentacea

			Apply at 15 loac	Barrey	Hordeum sp.
CDOUND				Winter Rye	Secale cereale
GROUND	STABILIZATION TI	VILFRANIES		Winter Wheat	Triticum sp.
Site Area Description	Stabilization	Timeframe Exceptions		Oats	Avena sp.
Perimeter dikes, swales and slopes	7 Days	None		Seed Summer Mix (Selec	t at least 2)
,		·		Common Name	Scientific Name
High Quality Water (HQW) Zones	7 Days	None	Apply at 15 lb/ac	Browntop Millet	Panicum ramosum
		If slopes are 10' or less in length and are not		Pearl Millet	Pennisetum glaucum
Slopes Steeper than 3:1	7 Days	steeper than 2:1, 14 days are allowed		Sudangrass	Sorghum bicolor
Slopes 4:1 or flatter	14 Days	7 days for slopes greater than 50' in length		"German Foxtail Millet (Foxtail bristlegrass)"	Setaria italica
				Buckwheat	Fagopyrum esculentum
All other areas with slopes flatter than 4:1	14 Days	None, except for perimeters and HQW Zones		Japanese Millet	Echinochloa frumentacea



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TORAGE DESIGN HILL, NORTH CAF ST EL LIOTT

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