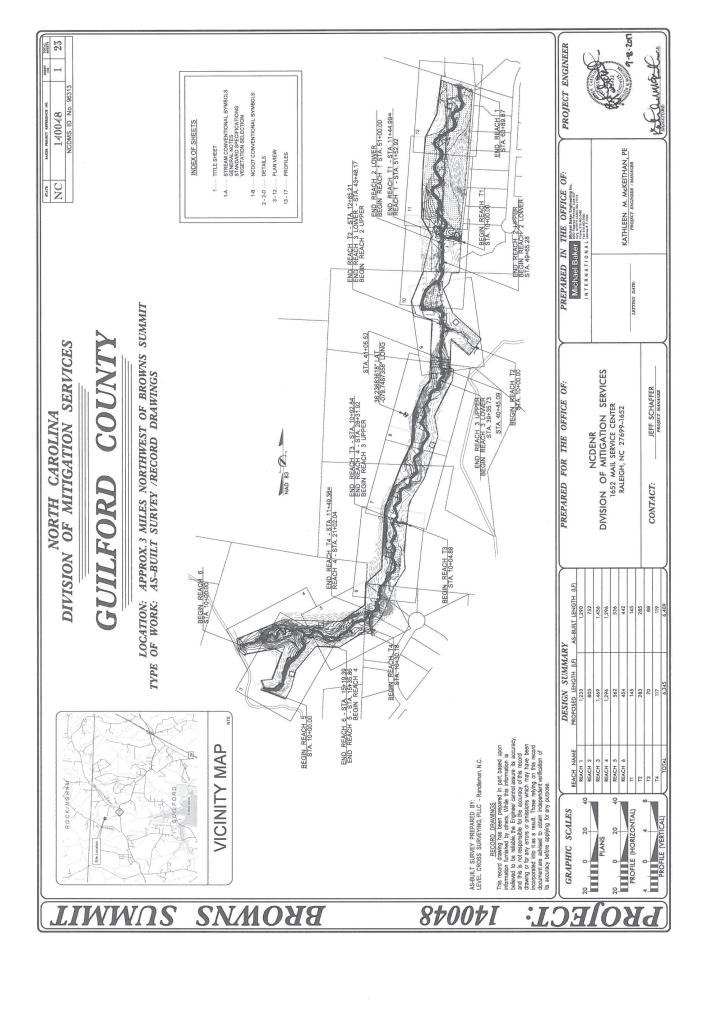
APPENDIX D

As-Built Plan Sheets/Record Drawings



Kintheithow 4.8.17 Michael Baker Brack Brac AS-BUILT SURVEY PREPARED BY: LEVEL CROSS SURVEYING, PLLC - Randleman, N.C. NCDMS ID No. 96313 THE CONTRACTOR IS REQUIRED TO INSTALL IN-STREAM STRUCTURES USING A TRACK HOE WITH A HYDRAULIC THUMB OF SUFFICIENT SIZE TO PLACE BOLLDERS (3x2x2), LOGS AND ROOTWARDS. NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL MARCH 2009 (REV 2013) STANDARD SPECIFICATIONS WORK IS BEING PERFORMED AS AN ENVIRONMENTAL RESTORATION PLAN. IT CONTRACTOR SHOULD MAKE ALL REASONABLE EFFORTS TO REDUCE SEDIMENT LOSS AND MINIMIZE DISTURBANCE OF THE SITE WHILE PERFORMING THE CONSTRUCTION WORK. 5. ENGINEER WILL FLAG TREES TO BE SAVED PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD CALL NORTH CAROLINA "ONE-CALL" BEFORE EXCAVATION STARTS. (1-800-632-4949) 6.06 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE GENERAL NOTES 3. CONSTRUCTION IS SCHEDULED TO BEGIN SUMMER OF 2015. TEMPORARY STREAM CROSSING 6.60 TEMPORARY SEDIMENT TRAP 6.24 RIPARIAN AREA SEEDING 6.62 TEMPORARY SILT FENCE 6.63 TEMPORARY ROCK DAM 6.05 TREE PROTECTION TEMPORARY STREAM CROSSING PERMANENT STREAM CROSSING TRANSPLANTED VEGETATION CONSERVATION EASEMENT **EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR** GEOLIFT WITH BRUSH TOE LIMITS OF DISTURBANCE 100 YEAR FLOOD PLAIN STREAM CONVENTIONAL SYMBOLS SUPERCEDES SHEET 1-B BRUSH MATTRESS PROPERTY LINE CHANNEL FILL FOOT BRIDGE TF- TAPE FENCE DITCH PLUG (1) ...435 ----)[][\otimes GRADE CONTROL LOG JAM CONSTRUCTED RIFFLE PROCK CROSS VANE MONITORING WELL ROCK STEP POOL LOG STEP POOL CREST GAUGE # PHOTO POINT ROCK J-HOOK FLOW GAUGE LOG J-HOOK ROCK VANE LOG VANE LOG WEIR

VEGETATION SELECTION

**NOTE: ALL ITEMS ABOVE MAY NOT BE USED ON THIS PROJECT

Proposed Plug Species for Reach R6 Constr

			Proposed Permanent Seed Mixture	1 Mixture	
ructed Wetland	/etland		Browns Summit Creek Restoration Project	pration Project	
					%
me	% Planted by Species	Wetland Tolerance	Botanical Name	Common Name	by
eep Pool	eep Pool Plantings		Andropogon gerardii	Big blue stem	
ceous Ply	ceous Plugs to be Installed 4' On Center	nter	Dichanthelium		
	25%	OBL	clandestinum	Deer tongue	
lily	25%	OBL	Carex crinita	Fringed sedge	
SI	25%	OBL	Elymus virginicus	Virginia wild rye	
ush.	25%	OBL	Juncus effusus	Soft rush	
gh Marsh	gh Marsh Plantings		Panicum virgatum	Switchgrass	
eous Plu	cous Plugs to be Installed 3' On Center	iter	Schizachyrium scoparium	Little blue stem	
Ja.	10%	FACW	Sorghastrum nutans	Indiangrass	
_	15%	FACW	Impatiens capensis	Jewelweed	
Mallow	15%	OBL		Total	Ш
lia	15%	OBL	Note: Final species selection may change due to refine	on may change due to r	efine
top	20%	FACW	planting. If species substitution is required, the planting	ion is required, the pla	unting
	25%	FAC	planting list to Baker for approval prior to the procurem	rroval prior to the proc	шеш
w Marsh	w Marsh Plantings				

			Proposed Bare-Root and Livestake Species	e Species		
% Planted	Density	Wetland	Browns Summit Creek Restoration Project	roject		
by Species	(lbs/ac)	Tolerance			% Planted	Wetl
10%	1.5	FAC	Botanical Name	Common Name	by Species	Toler
15%	2.25	FAC	Riparian Buffer Plantings - Overstory (For all reaches except R1, R. 8' x 8' specing - 680 stems. Acre	antings - Overstory (For all reass' x 8' x 8' spacing - 680 stems/Acre	reaches excer	M R1, R
10%	1.5	OBL	Fraxinus pennsylvanica Green Ash	n Ash	10%	FAC
10%	1.5	FACW	Betula nigra River 1	River Birch	%01	FAC
10%	1.5	FACW	Liriodendron tulipifera Tulip I	Tulip Poplar	10%	FA
15%	2.25	FAC	Quercus michauxii Swamp	Swamp Chestnut Oak	10%	FAC
10%	1.5	FACU	Diospyros virginiana Persin	Persimmon	2%	FA
10%	1.5	FACU	Platanus occidentalis Ameri	American Sycamore	10%	FAC
10%	1.5	FACW	Ulmus americana Ameri	American Elm	%5	FAC
100%	15		Riparian Buffer Plantings - Understory (For all reaches except R1, F	Inderstory (For al	l reaches exce	pf R1, F
			8, x 8, spac	8' x 8' spacing - 680 stems/Acre	Acre	
inement or availability at the time of	vailability at	the time of	Carpinus caroliniana Ameri	American Hornbeam	10%	FA
ing Contractor will submit a revised ement of plant stock.	or will subm at stock.	it a revised	Ilex opaca Ameri	American Holly	%8	FA
			Hamamelis virginiana Witch	Witchhazel	%9	FAC
			Viburnum dentatum Arrow	Arrowwood Viburnum	8%	FA
			Euonymus americanus Strawł	Strawberry Bush	%8	FA

	Wetland Buffer P	Wetland Buffer Plantings - Overstory (For Reaches R1, R2) 8' x 8' spacing - 680 stems/Acre	r Reaches RJ	I, R2)
0	Fraxinus pennsylvanica	Green Ash	10%	FACW
erance	Betula nigra	River Birch	10%	FACW
B2)	Quercus lyraia	Overcup Oak	10%	OBL
ì	Acer negundo	Box Elder	10%	FACW
ACW	Platanus occidentalis	American Sycamore	10%	FACW
ACW	Celtis laevigata	Sugarberry	2%	FACW
3AC	Nyssa sylvatica	Black gum	%5	FAC
ACW	Wetland Buffer Pl	Wetland Buffer Plantings - Understory (For Reaches RI, R2)	or Reaches R	1, R2)
3AC	8,1	8' x 8' spacing - 680 stems/Acre	Lere	
ACW	Carpinus caroliniana	American Hornbeam	10%	FAC
ACW.	Alnus serrulata	Tag Alder	10%	OBL
. R2)	llex verticillata	Winterberry	10%	FACW
	Viburnum nudum	Possumhaw	10%	OBL
3AC	Ri	Riparian Live Stake Plantings	ugs	
3AC	Salix sericea	Silky Willow	25%	OBL
ACU	Sambucus canadensis	Elderberry	25%	FACW
3AC	Cephalanthus occidentalis	Buttonbush	15%	OBL
SAC	Cornus amonum	Silky Dogwood	25%	FACW
	Salix nigra	Black Willow	10%	OBL

Note: Final species selection may change due to refinement or availability at the time of planting. Outside substitution is required, the planting contractor will submit as revised planting list to Baker for approval prior to the procurement of plant submit as revised planting list to Baker for approval prior to the procurement of plant stock.

edelphus fistulosus

OBL OBL OBL OBL

10% 15% 15% 15% 20%

	96313
140048	NCDMS ID No.
	140048

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS VVENTIONAL SYMBOLS

*S.U.E = SUBSURFACE UTILITY ENGINEER	05
	00
BOUNDARIES AND PROPERTY:	RAILROADS:
County Line	Standard Gauge
Township Line	RR Signal Milepost
City Line	Switch
Reservation Line	RR Abandoned
Property Line	peltu
Existing Iron Pin	RIGHT OF WAY:
Property Corner	Baseline Control Point
Property Monument	Existing Right of Way Marker
Parcel/Sequence Number (2)	Existing Right of Way Line
Existing Fence Line	Kight of Way Line
	Proposed Right of Way Line wi Iron Pin and Cap Marker
	Proposed Right of Way Line wi
93	Concrete or Granite Marke
Existing Wetland Boundary	Existing Control of Access
Proposed Wetland Boundary	Proposed Control of Access —
Existing Endangered Animal Boundary	Existing Easement Line
Existing Endangered Plant Boundary ————————————————————————————————————	
BUILDINGS AND OTHER CULTURE:	Proposed Temporary Drainage
Gas Pump Vent or U/G Tank Cap	Proposed Permanent Drainage
Sign Sign	Proposed Permanent Utility Eas
Well	Proposed Temporary Utility Ear
Small Mine 💝	
Foundation	ROADS AND RELATE
Area Outline	Existing Edge of Pavement
Cemetery	Existing Curb
Building	Proposed Slope Stakes Cut
School	Proposed Slope Stakes Fill —
Church ————————————————————————————————————	Proposed Wheel Chair Ramp
Dam	Existing Metal Guardrail
HYDROLOGY:	Proposed Guardrail
Stream or Body of Water	Existing Cable Guiderail
Hydro, Pool or Reservoir	Proposed Cable Guiderail
Jurisdictional Streams	Equality Symbol
Buffer Zone 1	Pavement Removal
Buffer Zone 2	VEGETATION:
Disappearing Stream	Single Iree
	Hadge Smoo
Wetland	Weeds Line
Proposed Lateral, Tail, Head Ditch	Orchard
False Sump	Vineyard

7105/84 14/04/84 BrownsZummsZenwo37/14/864 BrownSenwo38 BrownsZenwo38 Br

)			WATER:		
				Water Manhole	3	
				Water Meter	0	
				Water Valve	8	
	O WIFFPOST 35	EXISTING STRUCTURES:		Water Hydrant	φ	
		MAJOR:		Recorded U/G Water Line		
	SWILCH	Bridge, Tunnel or Box Culvert	CONC	Designated UG Water Line (S.U.E.*)		
		Bridge Wing Wall, Head Wall and End Wall -	CONC WW (Above Ground Water Line	A/G Woter	
		MINOR:				
	•	Head and End Wall	CONC HW	<u>ک</u> ــ		
	· <	Pipe Culvert		TV Satellite Dish	У	
	1	Footbridge ————————————————————————————————————	Y	TV Pedestal		
	0	Drainage Box: Catch Basin, DI or JB	88	TV Tower	8	
4		Paved Ditch Gutter		UG TV Cable Hand Hole	I	
ter		Storm Sewer Manhole	9	Recorded UG TV Cable	- A.	
with	0	Storm Sewer	Š	Designated UG TV Cable (S.U.E.*)		
rker				Recorded U/G Fiber Optic Cable	17 70	
	- 	UTILITIES:		Designated U/G Fiber Optic Cable (S.U.E.*)	17 40	
	₩ .	POWER:				
		Existing Power Pole	-0	GAS:		
ruction Easement		Proposed Power Pole	-0	Gas Valve		
age Easement	TDE	Existing Joint Use Pole	•	Gas Meter	0	
age Easement	PDE	Proposed Joint Use Pole	-ф	Recorded IM: Gas line		
Easement	PUE) (17	
Easement	TUE	Power Manhole	9 [Designated U/C Gas Line (S.U.E.*)		
ent with	4	Power Line Tower	\boxtimes	Above Ground Gas Line	A/C cos	
er	>	Power Transformer	N			
TED FEATURES:	:S:	UG Power Cable Hand Hole	M	SANITARY SEWER:		
		H-Frame Pole	I	Sanitary Sewer Manhole	•	
		Recorded LVG Power Line		Sanitary Sewer Cleanout	(4)	
	 - - - - -	Designated U/G Power Line (S.U.E.*)		UG Sanitary Sewer Line	22	
	E			Above Ground Sanitary Sewer	A/G Sanitary Sewar	
0	WCR	TELEPHONE:		Recorded SS Forced Main Line-	-155-	
		Existing Telephone Pole	•	Designated SS Forced Main Line (S.U.E.*) —		
	1 1 1 1	Proposed Telephone Pole	¢			
	n n n	Telephone Manhole	⊖	MISCELLANEOUS:		
	0 0 0 0	Telephone Booth	1	Utility Pole	•	
	•	Telephone Pedestal	E	Utility Pole with Base		
		Telephone Cell Tower	ΗĞ	Utility Located Object	0	
		UG Telephone Cable Hand Hole	E	Utility Traffic Signal Box	[5]	
	43	Recorded U/G Telephone Cable		Utility Unknown U/G Line		
	٥	Designated U/G Telephone Cable (S.U.E.*)—	1	UG Tank; Water, Gas, Oil		
		Recorded U/G Telephone Conduit	- 10	AG Tank; Water, Gas, Oil		
Î		Designated UC Telephone Conduit (S.U.E.*)		U/G Test Hole (S.U.E.*)	0	
	\$\\ \text{\$\tau\$} \\ \t	Recorded U/G Fiber Optics Cable	1 70	Abandoned According to Utility Records	AATUR	
	Vineyard	Designated U/G Fiber Optics Cable (S.U.E.*)		End of Information	E.O.I.	

