

STATE	CONTRACT NUMBER	SHEET NO.	TOTAL SHEETS
N.C.	7534	1	8

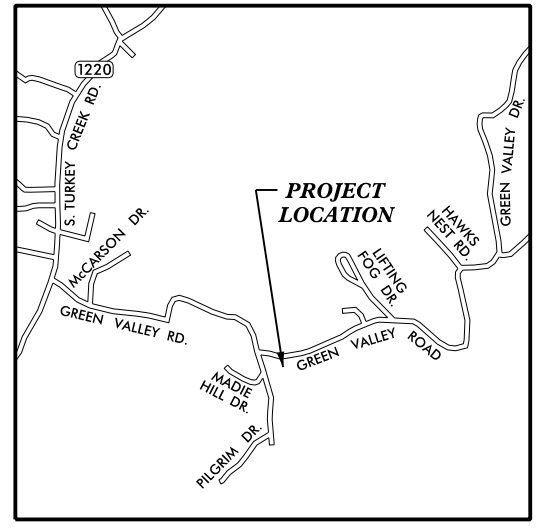
REVISOR	REVISION	DATE

NCDEQ DIVISION OF MITIGATION SERVICES

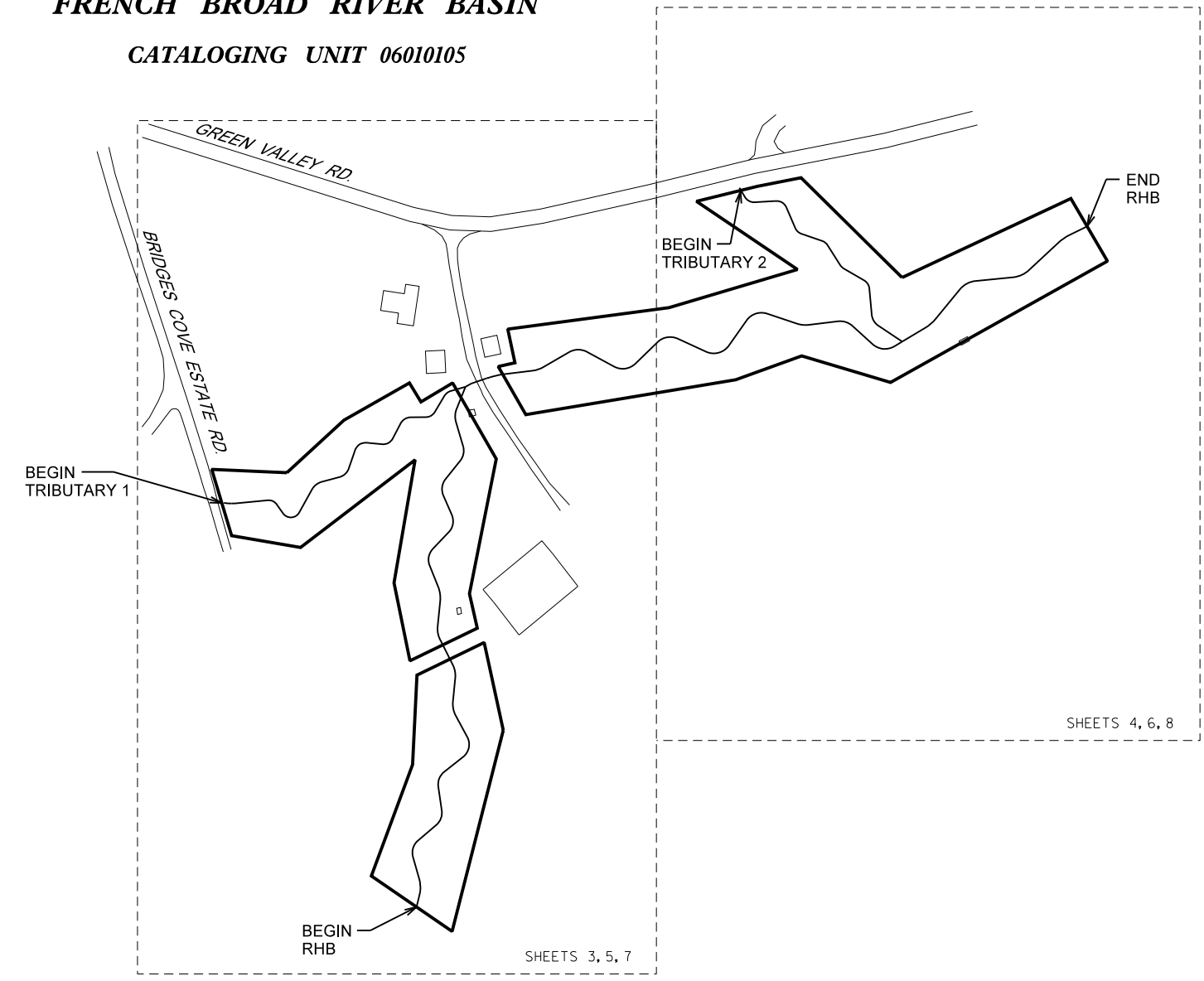
ROUND HILL BRANCH RESTORATION SITE

**BUNCOMBE COUNTY, NORTH CAROLINA
FRENCH BROAD RIVER BASIN**

CATALOGING UNIT 06010105



VICINITY MAP
NOT TO SCALE



AS-BUILT PLANS

NOTES:

THERE WAS A LARGE STORM EVENT ON AUGUST 16, 2021 AND THE SITE WAS REPAIRED TO THE ORIGINAL CONSTRUCTION PLANS.

KCI JOB# : 161802916

CONTRACT #: 7534

DIRECTIONS TO SITE

FROM ASHEVILLE, TAKE U.S. 74 ATL. USE THE TWO RIGHT LANES TO TAKE A RIGHT ONTO NC-63 WEST. TURN LEFT ONTO NEWFOUND ROAD. TAKE RABBIT HAM ROAD TO GREEN VALLEY ROAD. THE STREAM PROJECT ENTRANCE WILL BE ON ON THE LEFT AT 588 GREEN VALLEY ROAD, LEICESTER, NC 28748.

INDEX OF SHEETS

- 1 TITLE SHEET
- 2 GENERAL NOTES & PROJECT LEGEND
- 3-4 SITE PLAN
- 5-6 PLANTING PLAN
- 7-8 BOUNDARY MARKING PLAN

Prepared In the Office of:



Prepared for:

MATTHEW REID
DMS PROJECT MANAGER

Prepared by:

KRISTIN E. KNIGHT, PE
PROJECT ENGINEER

ALEX FRENCH
PROJECT DESIGNER

PROJECT ENGINEER



SIGNATURE:

P.E.

GENERAL NOTES:

BEARINGS AND DISTANCES:
 ALL BEARINGS ARE NAD 1983 GRID BEARINGS.
 ALL DISTANCES AND COORDINATES SHOWN ARE HORIZONTAL
 (GROUND) VALUES.

UTILITY/SUBSURFACE PLANS:
 NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT.
 EXISTING UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED.
 THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING A UTILITY
 LOCATOR AND ESTABLISHING THE EXACT LOCATION OF ANY AND
 ALL EXISTING UTILITIES IN THE PROJECT REACH.



MAY 2022			
REVISED PER DMS COMMENT			
SYMBOL		DESCRIPTION	REVISIONS



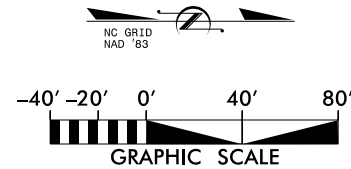
PROJECT LEGEND:

Designed Thalweg w/Approximate Bankfull Limits		Cross-section	
Installed Riffle Enhancement		Minor Contour Line (As-Built)	
Installed Riffle Grade Control		Major Contour Line (As-Built)	
Installed Cascade Structure		As-Built Thalweg w/Approximate Bankfull Limits	
Installed Step Pool		Existing Fencing	
Installed Live Lift		New Fencing	
Former Channel Filled			
Photo Point			
Stream Gauge			
Vegetation Plot			

ROUND HILL BRANCH
 RESTORATION SITE
As-Built Plans
 BUNCOMBE COUNTY, NORTH CAROLINA

DATE: FEBRUARY 2022
 SCALE: N.T.S.

GENERAL
 NOTES &
 PROJECT
 LEGEND

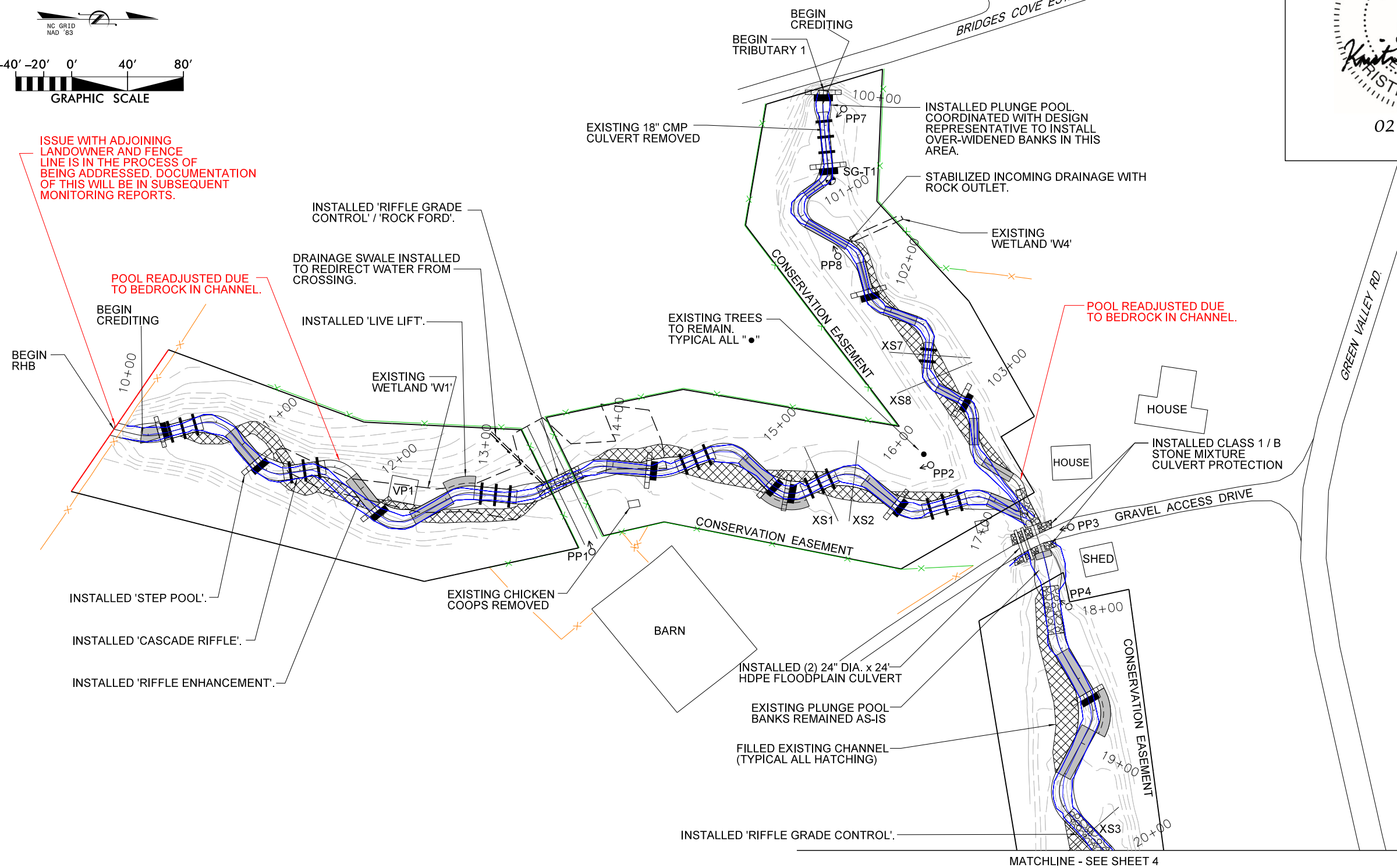


ISSUE WITH ADJOINING LANDOWNER AND FENCE LINE IS IN THE PROCESS OF BEING ADDRESSED. DOCUMENTATION OF THIS WILL BE IN SUBSEQUENT MONITORING REPORTS.

POOL READJUSTED DUE TO BEDROCK IN CHANNEL.

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ALL TOPOGRAPHIC AND FEATURE DATA ARE BASED ON THE AS-BUILT SURVEY COMPLETED MAY 2021.



SYMBOL	DESCRIPTION	REVISIONS

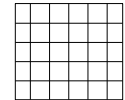


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4505 FALLS OF NEUSE ROAD, SUITE 400
RALEIGH, NORTH CAROLINA 27609

ROUND HILL BRANCH
RESTORATION SITE
As-Built Plans
BUNCOMBE COUNTY, NORTH CAROLINA

DATE: FEBRUARY 2022
SCALE: GRAPHIC

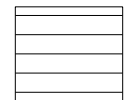
SITE PLAN



PLANTING ZONE 1 = 1.49 ACRES

12" - 18" BARE ROOT MATERIAL
968 STEMS/ACRE (9' X 5' SPACING), RANDOM SPECIES PLACEMENT

COMMON NAME	SCIENTIFIC NAME	STATUS	% OF TOTAL	# OF PLANTS
HAZEL ALDER	ALNUS SERRULATA	OBL	10	144
PAWPAW	ASIMINA TRILOBA	FAC	10	144
YELLOW BIRCH	BETULA ALLEGHANIENSIS	FAC	10	144
AMERICAN HORNBEAM	CARPINUS CAROLINIANA	FAC	10	144
SUGARBERRY	CELTIS LAEVIGATA	FACW	10	144
SILKY DOGWOOD	CORNUS AMOMUM	FACW	10	144
SPICEBUSH	LINDERA BENZOIN	FAC	10	144
BLACK GUM	NYSSA SYLVATICA	FAC	10	144
AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	FACW	20	290
				1,442



PLANTING ZONE 2 = 2.19 ACRES

12" - 18" BARE ROOT MATERIAL
968 STEMS/ACRE (9' X 5' SPACING), RANDOM SPECIES PLACEMENT

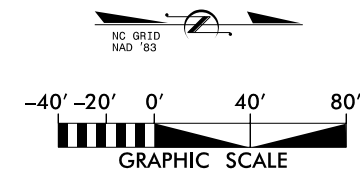
COMMON NAME	SCIENTIFIC NAME	STATUS	% OF TOTAL	# OF PLANTS
YELLOW BUCKEYE	AESCLUSUS FLAVA	FACU	10	212
SWEET BIRCH	BETULA LENTA	FACU	10	212
BITTERNUT HICKORY	CARYA CORDIFORMIS	FACU	10	212
PIGNOT HICKORY	CARYA GLABRA	FACU	10	212
TULIP POPLAR	LIRIODENDRON TULIPIFERA	FACU	10	212
AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	FACW	10	212
WHITE OAK	QUERCA ALBA	FACU	10	212
SOUTHERN RED OAK	QUERCUS FALCATA	FACU	10	212
CHESTNUT OAK	QUERCUS MONTANA	UPL	10	212
NORTHERN RED OAK	QUERCUS RUBRA	FACU	10	212
				2,120



STREAM ZONE

LIVE STAKES: 1.5' TO 2' LENGTHS, 1/2" TO 2" DIAMETER,
PLANT ONE ROW PER BANK AT 3' SPACING, RANDOM
SPECIES PLACEMENT.

COMMON NAME	SCIENTIFIC NAME
BLACK WILLOW	SALIX NIGRA
SILKY WILLOW	SALIX SERICEA
SILKY DOGWOOD	CORNUS AMOMUM
ELDERBERRY	SAMBUCUS CANADENSIS
NINEBARK	PHYSOCARPUS OPULIFOLIUS



MATCHLINE - SEE SHEET 6

SYMBOL	DESCRIPTION	REVISIONS	DATE



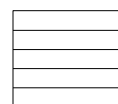
ROUND HILL BRANCH
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As-Built Plans
BUNCOMBE COUNTY, NORTH CAROLINA

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PLANTING
PLAN



PLANTING ZONE 1



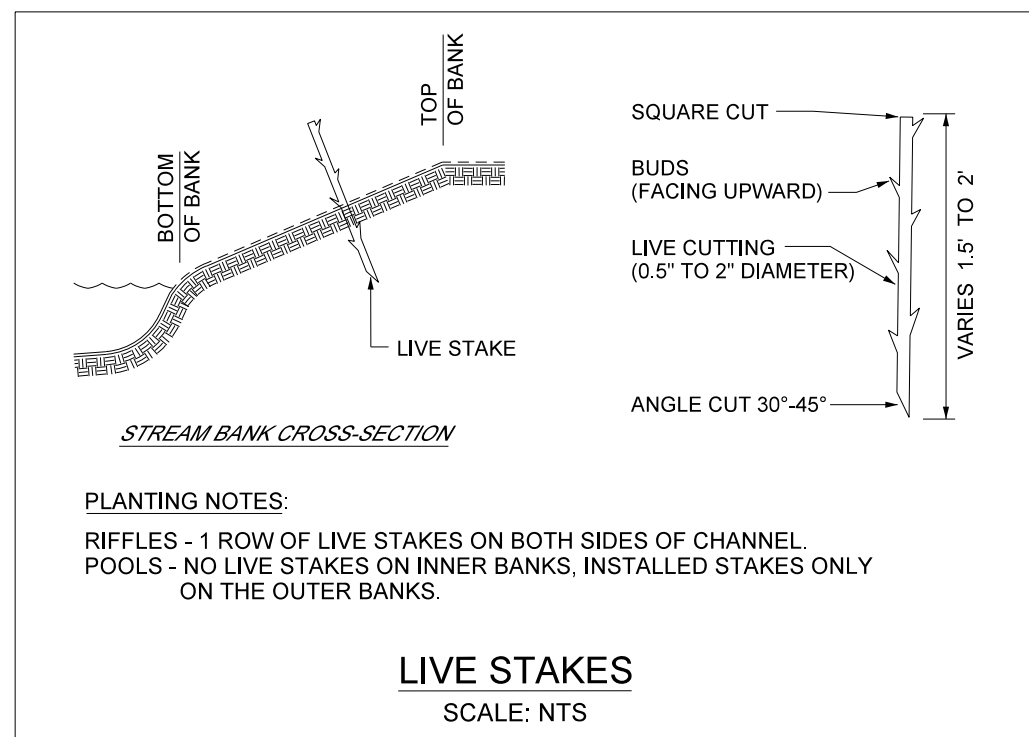
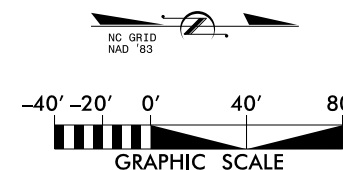
PLANTING ZONE 2



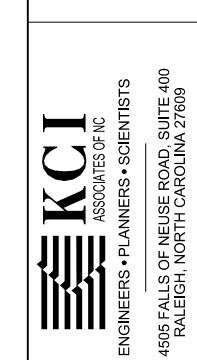
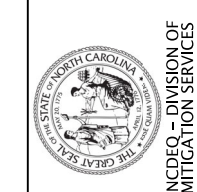
STREAM ZONE

* NOTE: SEE SHEET 5 FOR PLANTING QUANTITIES

MATCHLINE - SEE SHEET 5



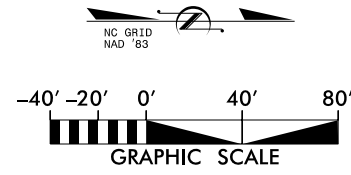
SYMBOL	DESCRIPTION	REVISIONS



ROUND HILL BRANCH RESTORATION SITE
As-Built Plans
 BUNCOMBE COUNTY, NORTH CAROLINA

DATE: FEBRUARY 2022
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PLANTING PLAN



NO.	SYMBOL	DESCRIPTION	REVISIONS

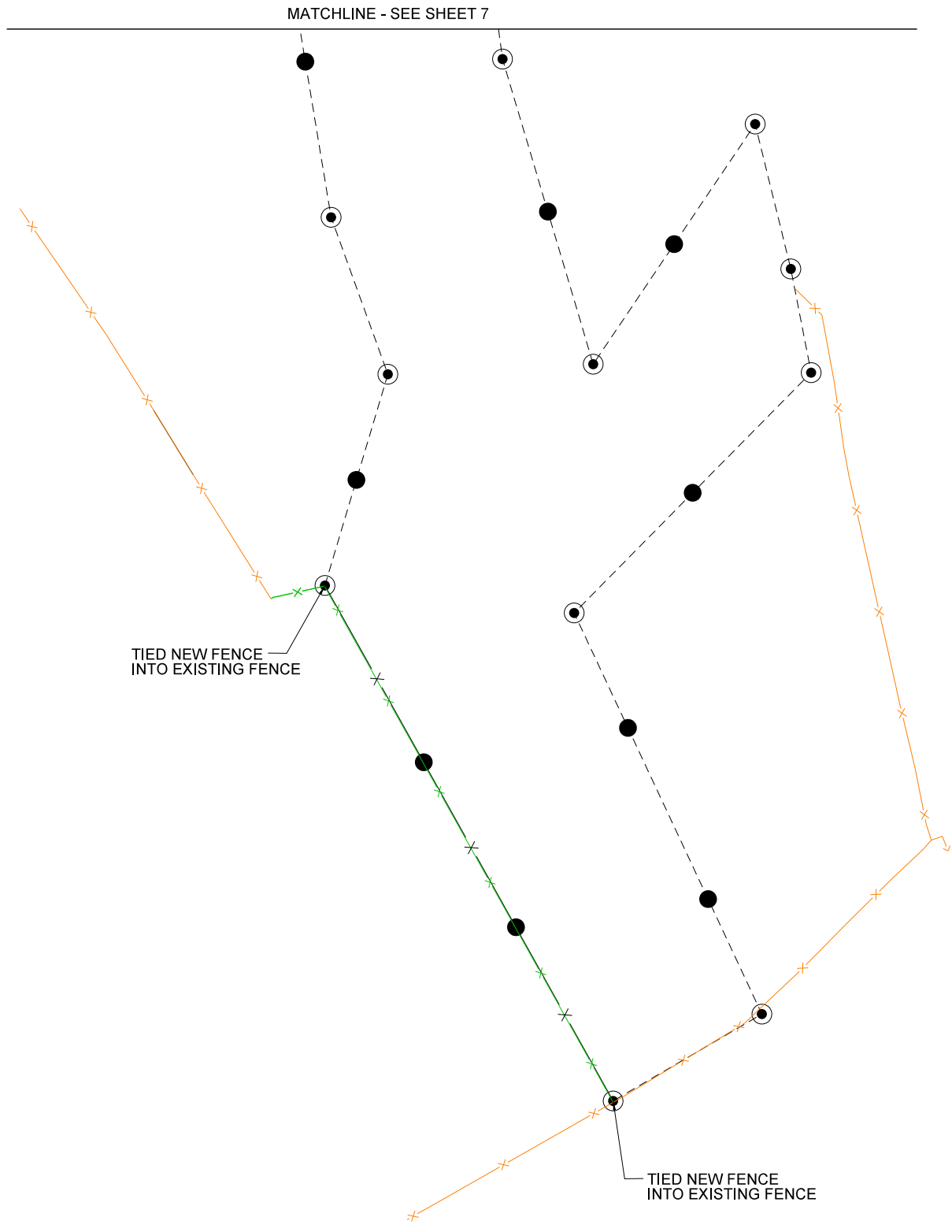


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**BOUNDARY
MARKING
PLAN**



EASEMENT BOUNDARY MARKING

THE EASEMENT BOUNDARY WAS MARKED WITH METAL OR SALT TREATED WOOD POSTS AND CONSERVATION EASEMENT SIGNS AT THE CORNERS AND AT A MINIMUM OF 100' INTERVALS ALONG THE BOUNDARY.

WHEN APPROPRIATE, PROVIDER MARKED EXISTING TREES WITH CONSERVATION EASEMENT SIGNS AND / OR BLAZE DPROPERTY LINES AT APPROXIMATELY EYE LEVEL.

-  6-FOOT TALL DURABLE WITNESS POSTS AND 5/8" REBAR 30" IN LENGTH WITH 3-1/4" ALUMINUM CAPS ON ALL EASEMENT CORNERS. CAPS MEET DMS SPECIFICATIONS (BERNSTEIN RBD5325 IMPRINTED WITH NC STATE LOGO #B99087 OR EQUIVALENT). AFTER INSTALLATION, CAPS WERE STAMPED WITH THE CORRESPONDING NUMBER.
-  6-FOOT TALL DURABLE WITNESS POST ALONG BOUNDARY OF CONSERVATION EASEMENT. POSTS ARE MADE OF MATERIAL THAT WILL LAST A MINIMUM OF 20 YEARS. THE PROVIDER ATTACHED A CONSERVATION EASEMENT SIGN TO EACH WITNESS POST AND PLACED ADDITIONAL SIGNS AT NO MORE THAN 100-FOOT INTERVALS ON BOUNDARY LINES.
-  INSTALLED NEW WOVEN WIRE FENCE
-  DO NOT INSTALL FENCE - CONSERVATION EASEMENT
-  EXISTING CATTLE FENCE
-  INSTALLED ACCESS GATE