

09/08/99

NC DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF MITIGATION SERVICES

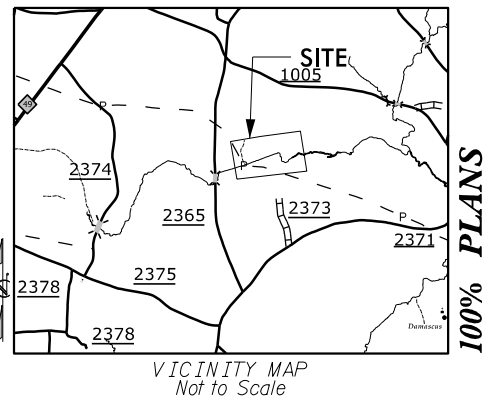
AS-BUILT PLANS PHANTOM MILL SITE

LOCATION: ALAMANCE COUNTY, NORTH CAROLINA

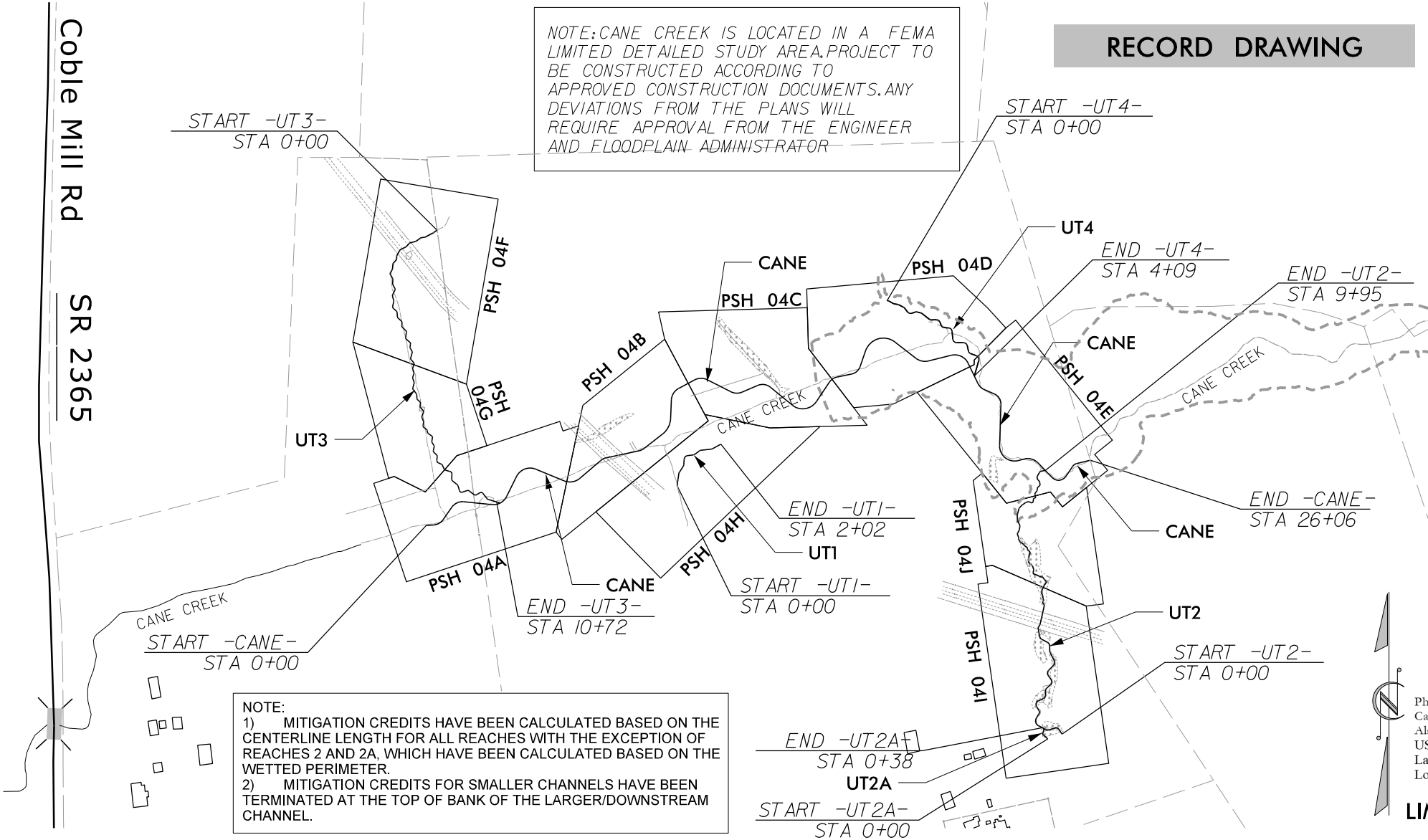
TYPE OF WORK: STREAM RESTORATION AND ENHANCEMENT (CLEARING,
GRUBBING, GRADING, EROSION CONTROL AND PLANTING)

INDEX OF SHEETS

SHEET NUMBER	SHEET
01	Title Sheet
02	Symbology
03	Easement
04A THRU 04J	As-Built Structures
04K	As-Built Planting Table



CONTRACT: PHANTOM MILL SITE



NOTE:
 1) MITIGATION CREDITS HAVE BEEN CALCULATED BASED ON THE CENTERLINE LENGTH FOR ALL REACHES WITH THE EXCEPTION OF REACHES 2 AND 2A, WHICH HAVE BEEN CALCULATED BASED ON THE WETTED PERIMETER.
 2) MITIGATION CREDITS FOR SMALLER CHANNELS HAVE BEEN TERMINATED AT THE TOP OF BANK OF THE LARGER/DOWNSTREAM CHANNEL.

RECORD DRAWING

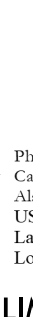
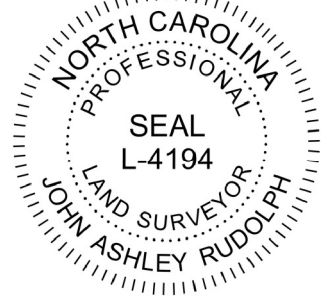
SURVEYORS CERTIFICATION(S)
 Surveyor's disclaimer: No attempt was made to locate any cemeteries, wetlands, hazardous material sites, underground utilities or any other features above, or below ground other than those shown. However, no visible evidence of cemeteries or utilities, aboveground or otherwise, was observed by the undersigned (other than those shown).

I certify that the survey is of an existing parcel or parcels of land or one or more existing easements and does not create a new street or change an existing street.

I JOHN A. RUDOLPH, certify that this plat was prepared under my supervision from an actual field survey made under my supervision, of as-built conditions.

That the boundaries not surveyed are clearly indicated as such and were plotted from information as referenced herein; That the ratio of precision as calculated was 1:7,500+ and that the global navigational satellite system (GNSS) was used to perform this survey and the following information was used:
 Class of Survey: CLASS B (HORIZONTAL) CLASS B (VERTICAL)
 Positional Accuracy: 0.12 feet (HORIZONTAL)
 Type of GPS field procedure: RTK
 Dates of survey: February and March 2021
 Datum/Epoch: NAD 1983(2011)
 Published/Fixed Control Use: OPUS
 Geoid Model: 2012B CONUS
 Combined Grid Factor: 0.99995565 GROUND TO GRID
 Units: US SURVEY FEET

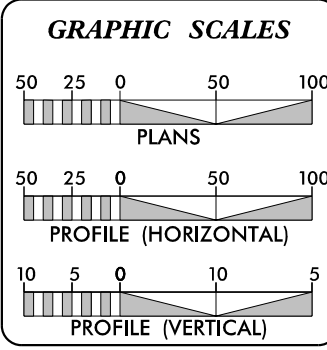
That this plat meets the requirements of the standards of practice for land surveying in North Carolina. Witness my hand and seal this 3rd day of March, 2021.



Phantom Mill Stream and Wetland Mitigation Site #100057
 Cape Fear 03030002
 Alamance County
 USACE AID#: SAW-2018-01166
 Latitude: 35.8924
 Longitude: -79.4754 (WGS84)

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

**LIMITS OF CONSTRUCTION:
11.1 ACRES**



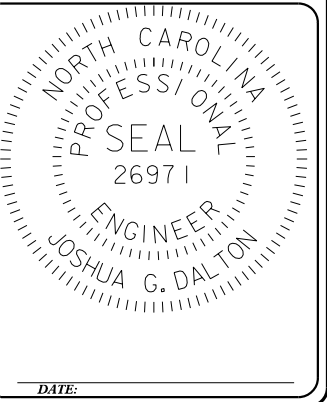
PROPOSED LENGTH OF CAIN = 2609 LF	PROPOSED LENGTH OF UT2A = 38 LF		
PROPOSED LENGTH OF UT1 = 202 LF	PROPOSED LENGTH OF UT3 = 1072 LF		
PROPOSED LENGTH OF UT2 = 995 LF	PROPOSED LENGTH OF UT4 = 409 LF		
TOTAL STREAM LENGTH = 5325 LF			
RESTORATION LEVEL	STREAM (linear footage)	RIPARIAN WETLAND (acreage)	NONRIPARIAN WETLAND (acreage)
RESTORATION	2984	3.727	0.000
ENHANCEMENT I	335	0.828	0.000
ENHANCEMENT II	666	0.000	0.000
PRESERVATION	669	0.000	0.000
TOTALS	4654	4.555	0.000
MITIGATION UNITS	3632 SMUs	4.141 RIPARIAN WMUs	NONRIPARIAN WMUs

Axiom Environmental
 218 Snow Ave
 Raleigh, NC 27603
GRANT LEWIS
 PROJECT DESIGNER

Restoration Systems
 1101 Haynes St.
 Suite 211
 Raleigh, NC 27604
WORTH CREECH
 SITE CONSTRUCTION MANAGER

Prepared In the Office of:
SUNGATE DESIGN GROUP, P.A.
 905 JONES FRANKLIN ROAD
 RALEIGH, NORTH CAROLINA 27606
 TEL (919) 859-2243
 ENG FIRM LICENSE NO. C-890

JOSHUA G. DALTON, P.E.
 PROJECT ENGINEER



7/29/2022
Phantom_Hyd_psh_AB_01.dgn
jnarvey

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

SHEET NAME	SHEET NUMBER
SYMBOLS	02
PROJECT NAME: PHANTOM STREAM AND WETLAND RESTORATION SITE	COUNTY: ALAMANCE
	DATE: 2022

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	✕
Property Monument	◻ EGM
Parcel/Sequence Number	①23
Existing Fence Line	-x-x-x-
Proposed Fence Gate	◻
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- WLB
Proposed Wetland Boundary	----- WLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Existing Historic Property Boundary	----- HPB

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	◻
Area Outline	◻
Cemetery	⊕
Building	◻
School	⊕
Church	⊕
Dam	⊕

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●

Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◇
Vertical Benchmark	⊕
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	△
New Right of Way Line with Concrete or Granite RW Marker	△
New Control of Access Line with Concrete C/A Marker	△
Existing Control of Access	△
New Control of Access	△
Existing Easement Line	----- E
New Conservation Easement	----- E
New Temporary Drainage Easement	----- TDE
New Permanent Drainage Easement	----- PDE
New Permanent Drainage / Utility Easement	----- DUE
New Permanent Utility Easement	----- PUE
New Temporary Utility Easement	----- TUE
New Aerial Utility Easement	----- AUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	----- CR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----

VEGETATION:

Single Tree	⊕
Single Shrub	⊕
Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	----- CONC
Bridge Wing Wall, Head Wall and End Wall	----- CONC WW
MINOR:	
Head and End Wall	----- CONC HW

Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	◻ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊕
Storm Sewer	----- S

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊕
Power Transformer	⊕
U/G Power Cable Hand Hole	●
H-Frame Pole	●
U/G Power Line LOS B (S.U.E.*)	----- P
U/G Power Line LOS C (S.U.E.*)	----- P
U/G Power Line LOS D (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
-------------------------	---

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊕
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	----- W
U/G Water Line LOS C (S.U.E.*)	----- W
U/G Water Line LOS D (S.U.E.*)	----- W
Above Ground Water Line	----- A/G Water

GAS:

Gas Valve	◇
Gas Meter	◇
U/G Gas Line LOS B (S.U.E.*)	----- G
U/G Gas Line LOS C (S.U.E.*)	----- G
U/G Gas Line LOS D (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

SANITARY SEWER:



Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS

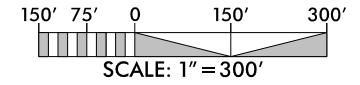
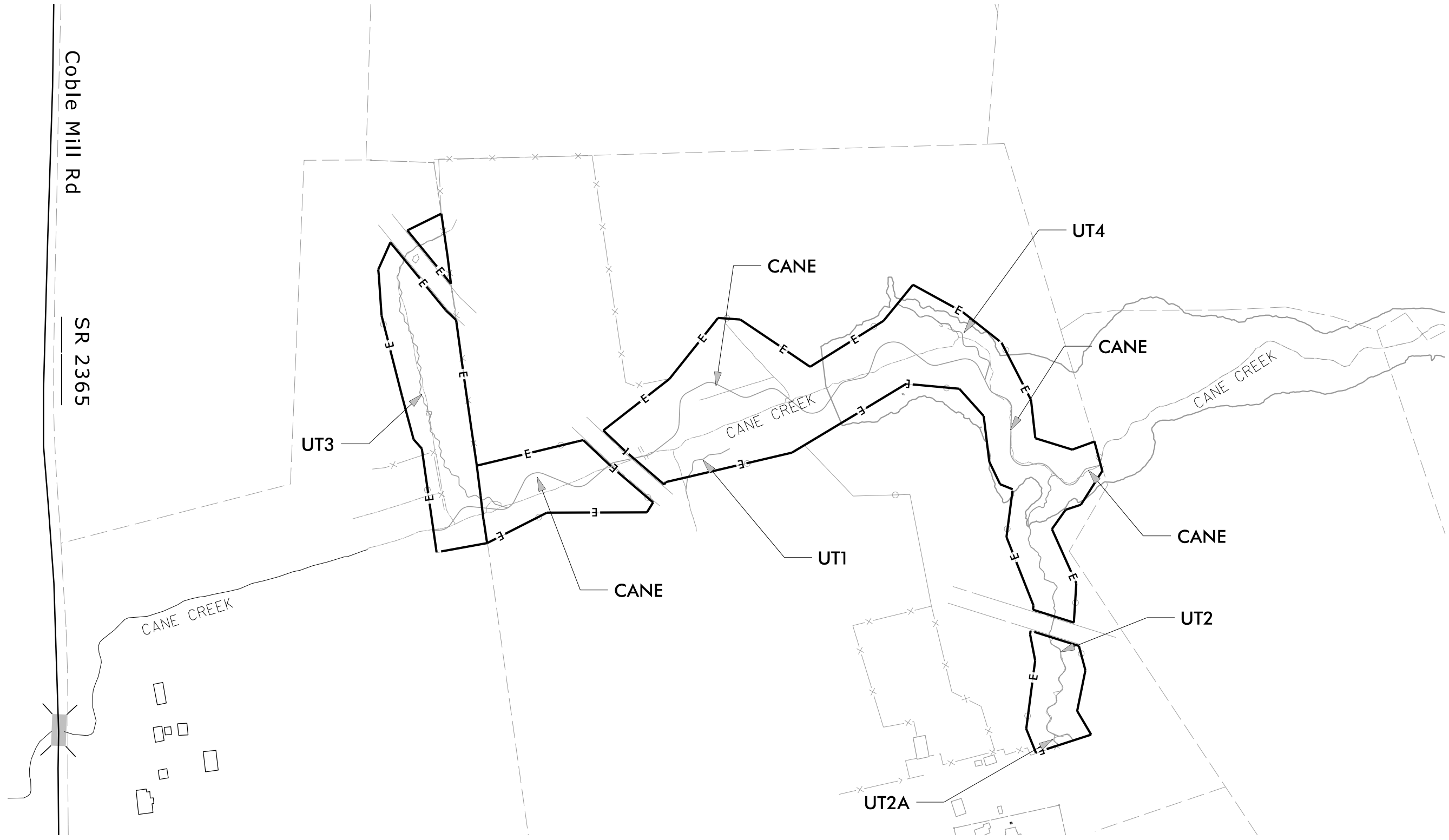
SS Forced Main Line LOS D (S.U.E.*)	----- FSS
MISCELLANEOUS:	
Utility Pole	●
Utility Pole with Base	◻
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	----- TUL
U/G Tank; Water, Gas, Oil	◻
Underground Storage Tank, Approx. Loc.	◻ UST
A/G Tank; Water, Gas, Oil	◻
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	●
Abandoned According to Utility Records	⊕ AATUR
End of Information	----- E.O.I.
Riffle Rip Rap	-----
Log Vane	-----
Log Cross Vane	-----
Step Pool Structure	-----
Stream Plug	-----
Floodplain Interceptor	-----
Proposed Fence	-----
Limits of Disturbance	----- LOD
AS-BUILT:	
Stream Centerline	-----
Stream Top of Bank	-----
Stream Gauge	○
Groundwater Gauge	⊕ #
Benthic & Water Quality Station	⊕ 1
Origin Point on CVS Plots	⊕
CVS Plots	⊕ #
Cross Section	----- XS-10R
Adjusted Stream Structure	-----
Not Constructed	-----

SURVEY INFORMATION PROPERTY/
 EASEMENT PROVIDED BY:
 K2 DESIGN GROUP, P.A.
 5688 U.S. HIGHWAY 70 EAST
 GOLDSBORO, NC 27534

RECORD DRAWING

- x—x—x— EXISTING FENCING
- o—o—o— PROPOSED FENCING
- E—E—E— PROPOSED EASEMENT

SHEET NAME		SHEET NUMBER	
EASEMENT		03	
PROJECT NAME: PHANTOM STREAM AND WETLAND RESTORATION SITE			
COUNTY: ALAMANCE		DATE: 2022	
			
<small>905 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 ENG FIRM LICENSE NO. C-890</small>			



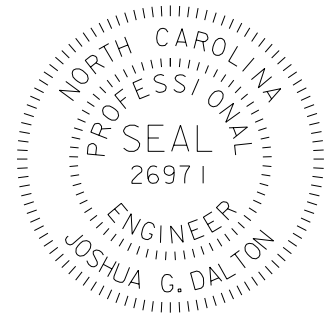
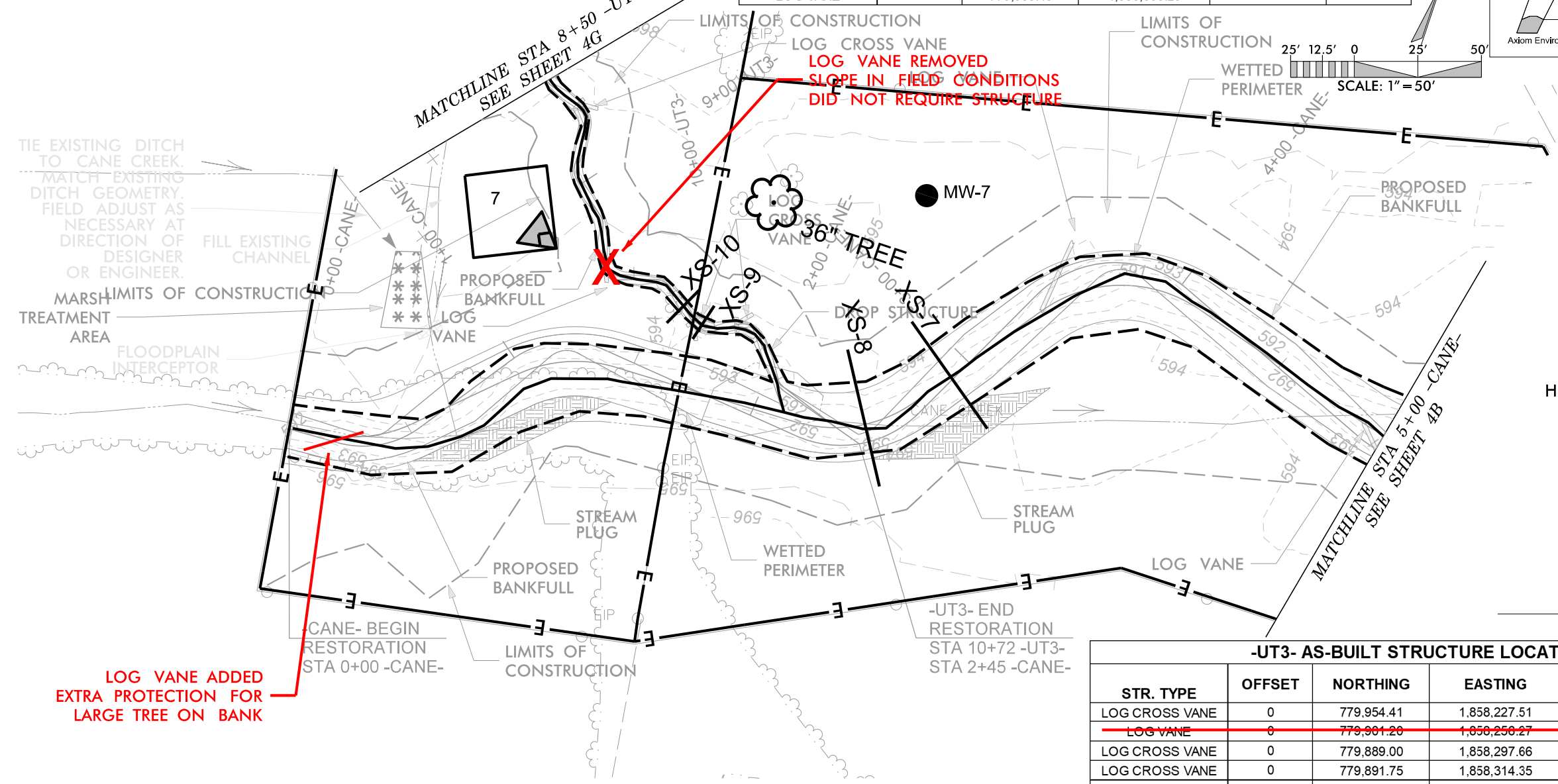
7/28/2022
 Phantom_Hyd_psh_AB_03.dgn
 jbarney

-CANE- AS-BUILT STRUCTURE LOCATIONS					
STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG STRUCTURE	0	779,799.16	1,858,178.07		591.62
LOG VANE	0	779,935.44	1,858,426.06	591.12	591.26
LOG VANE	0	779,933.46	1,858,560.29	590.92	590.54

SHEET NAME: AS-BUILT STRUCTURES
SHEET NUMBER: 4A
PROJECT NAME: PHANTOM STREAM AND WETLAND RESTORATION SITE
COUNTY: ALAMANCE
DATE: 2022

SUNGATE DESIGN GROUP, P.A.
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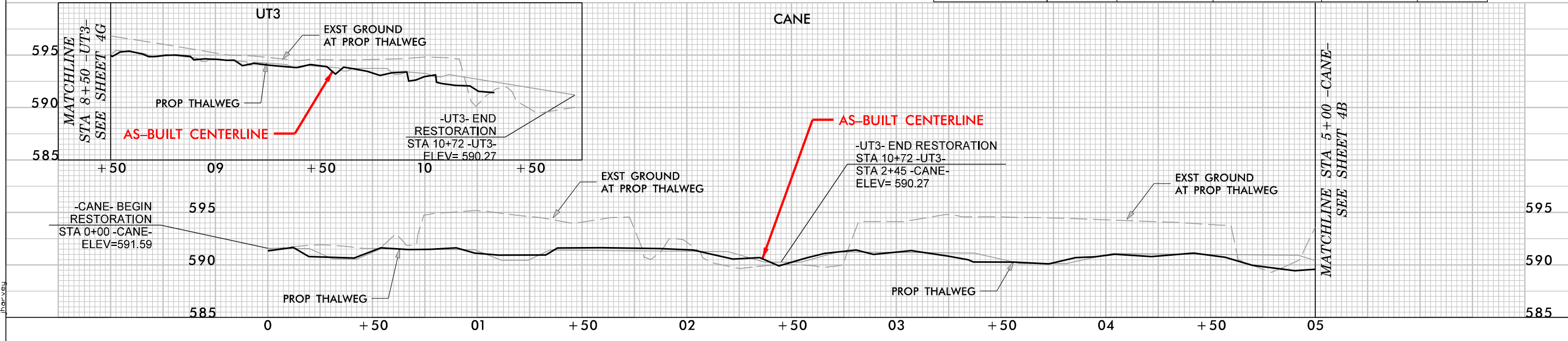


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VERTICAL DATUM: NAVD 88

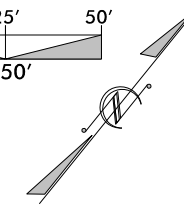
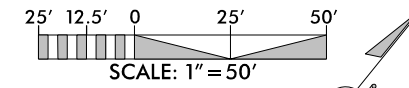
RECORD DRAWING

-UT3- AS-BUILT STRUCTURE LOCATIONS					
STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG CROSS VANE	0	779,954.41	1,858,227.51	595.14	
LOG VANE	0	779,901.20	1,858,250.27	594.10	
LOG CROSS VANE	0	779,889.00	1,858,297.66	593.47	
LOG CROSS VANE	0	779,891.75	1,858,314.35	593.24	593.40
DROP STRUCTURE	0	779,889.63	1,858,324.30	593.15	593.12



7/29/2022
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04A.dwg

-CANE- AS-BUILT STRUCTURE LOCATIONS					
STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG VANE	0	780,159.46	1,858,876.99	590.03	590.13

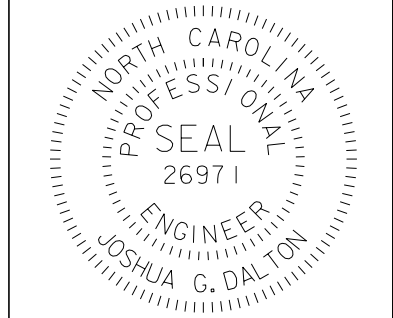


SHEET NAME	SHEET NUMBER
AS-BUILT STRUCTURES	4C
PROJECT NAME: PHANTOM STREAM AND WETLAND RESTORATION SITE	
COUNTY: ALAMANCE	DATE: 2022

SUNGATE DESIGN GROUP, P.A.
 905 JONES FRANKLIN ROAD
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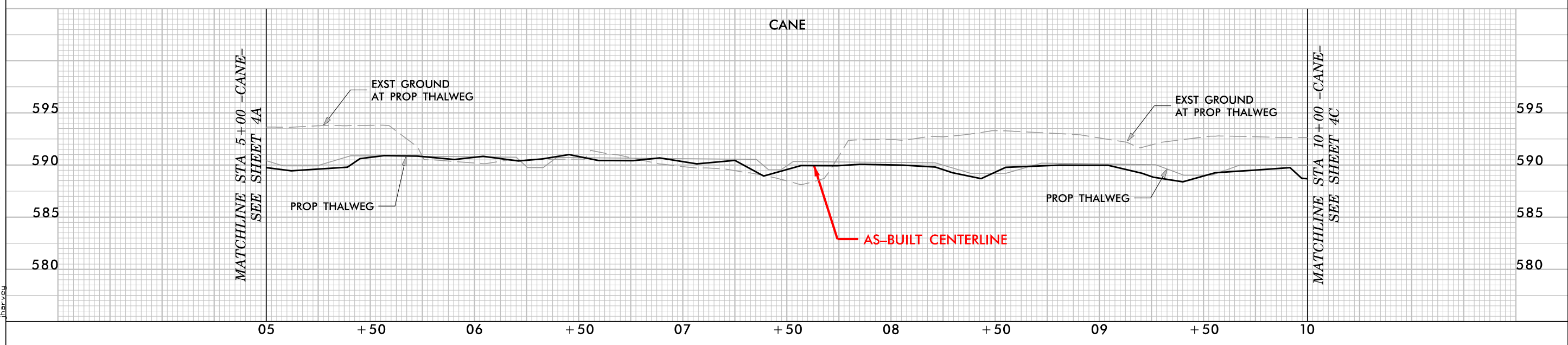
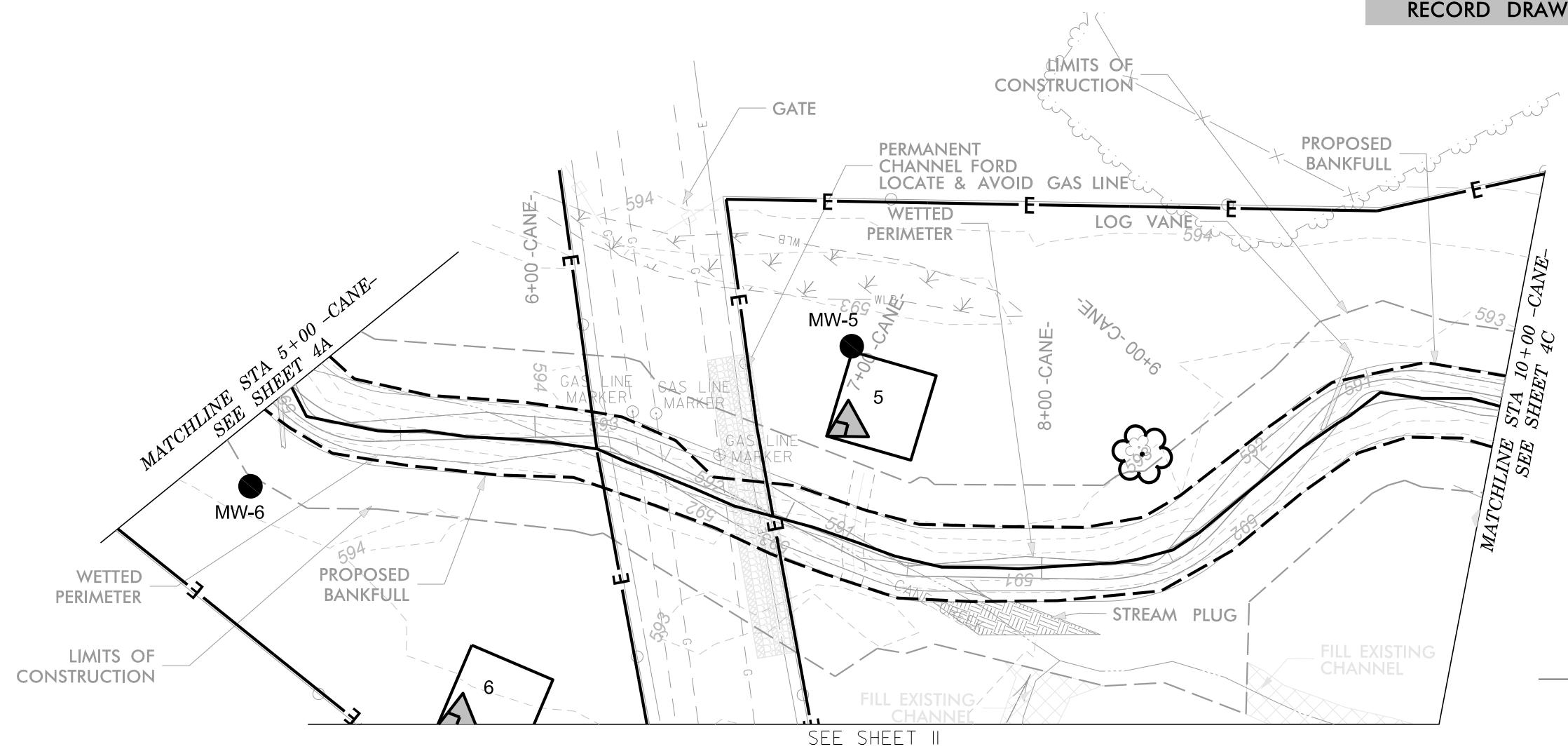
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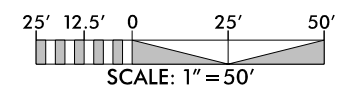
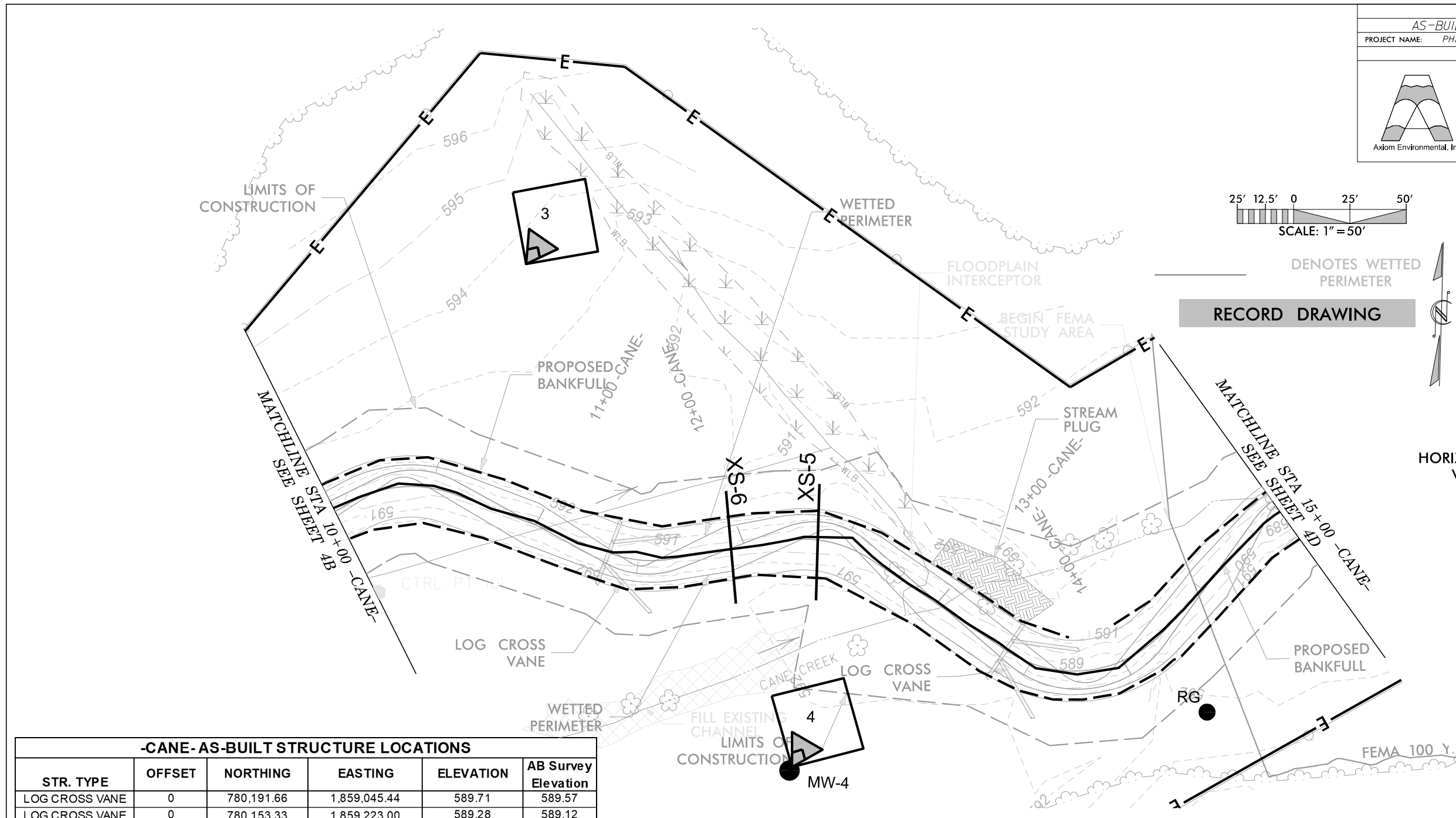


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 jharvey



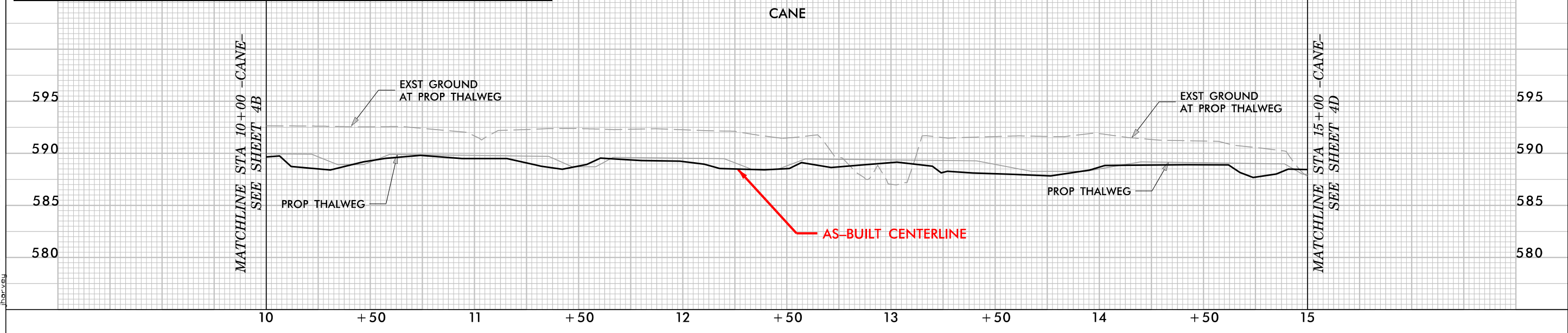
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HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88



RECORD DRAWING

STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG CROSS VANE	0	780,191.66	1,859,045.44	589.71	589.57
LOG CROSS VANE	0	780,153.33	1,859,223.00	589.28	589.12



7/29/2022
 Phantom_Hydro_psh_AB_04C.dgn
 jharvey

-UT4- AS-BUILT STRUCTURE LOCATIONS					
STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG CROSS VANE	0	780,432.82	1,859,545.50	591.16	591.01
LOG CROSS VANE	0	780,417.86	1,859,581.38	590.39	590.23
LOG CROSS VANE	0	780,380.69	1,859,657.18	588.61	588.37
LOG VANE	0	780,291.04	1,859,756.66	587.17	586.81

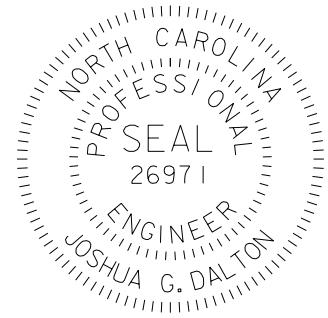
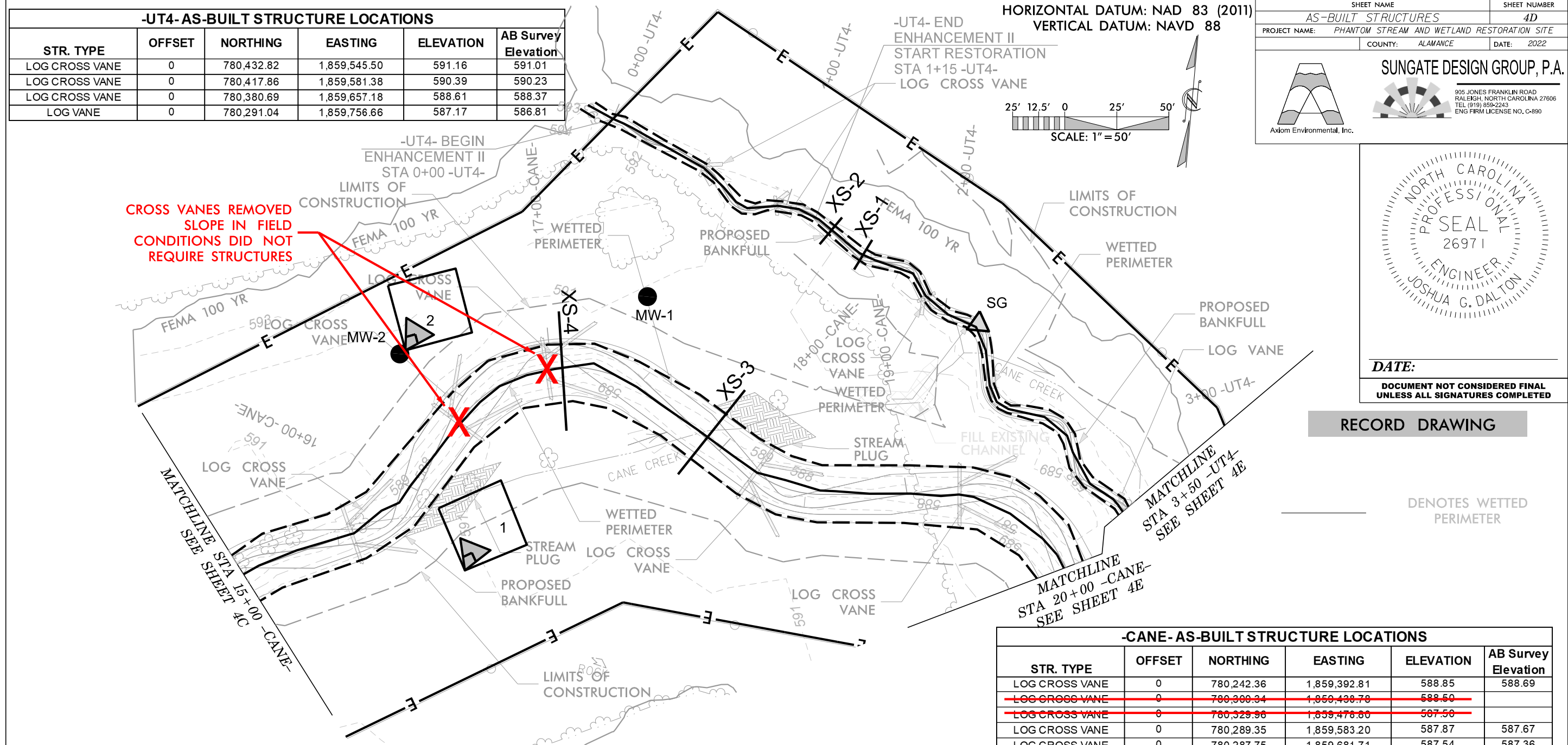
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VERTICAL DATUM: NAVD 88

SHEET NAME	SHEET NUMBER
AS-BUILT STRUCTURES	4D
PROJECT NAME: PHANTOM STREAM AND WETLAND RESTORATION SITE	COUNTY: ALAMANCE DATE: 2022

SUNGATE DESIGN GROUP, P.A.
905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243
ENG FIRM LICENSE NO. C-890

Axiom Environmental, Inc.

CROSS VANES REMOVED
SLOPE IN FIELD
CONDITIONS DID NOT
REQUIRE STRUCTURES

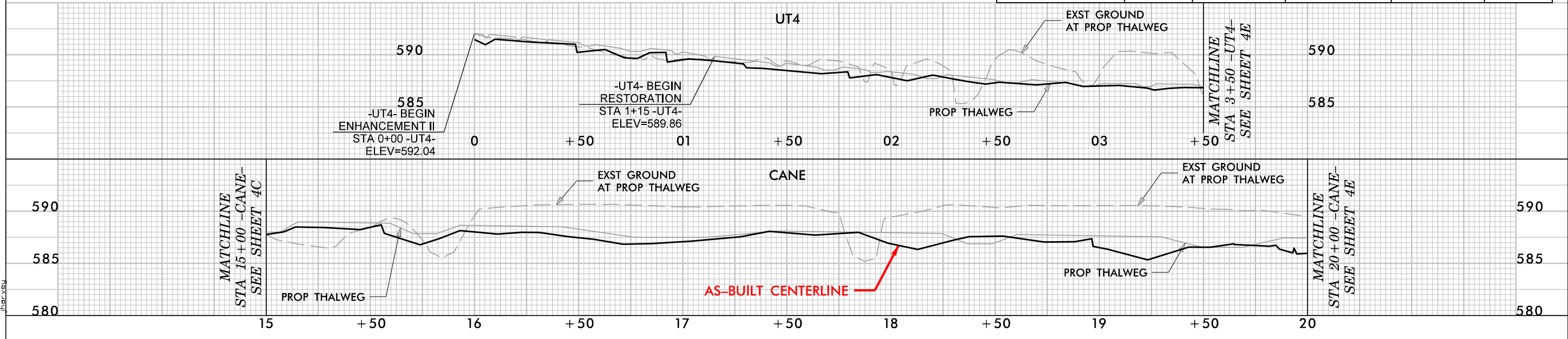


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RECORD DRAWING

DENOTES WETTED PERIMETER

-CANE- AS-BUILT STRUCTURE LOCATIONS					
STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG CROSS VANE	0	780,242.36	1,859,392.81	588.85	588.69
LOG CROSS VANE	0	780,300.34	1,859,438.78	588.50	
LOG CROSS VANE	0	780,329.96	1,859,478.60	587.50	
LOG CROSS VANE	0	780,289.35	1,859,583.20	587.87	587.67
LOG CROSS VANE	0	780,287.75	1,859,681.71	587.54	587.36



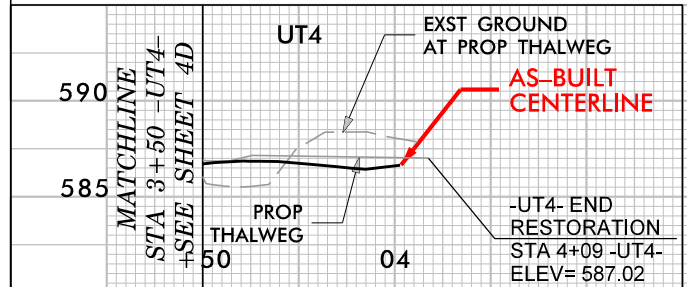
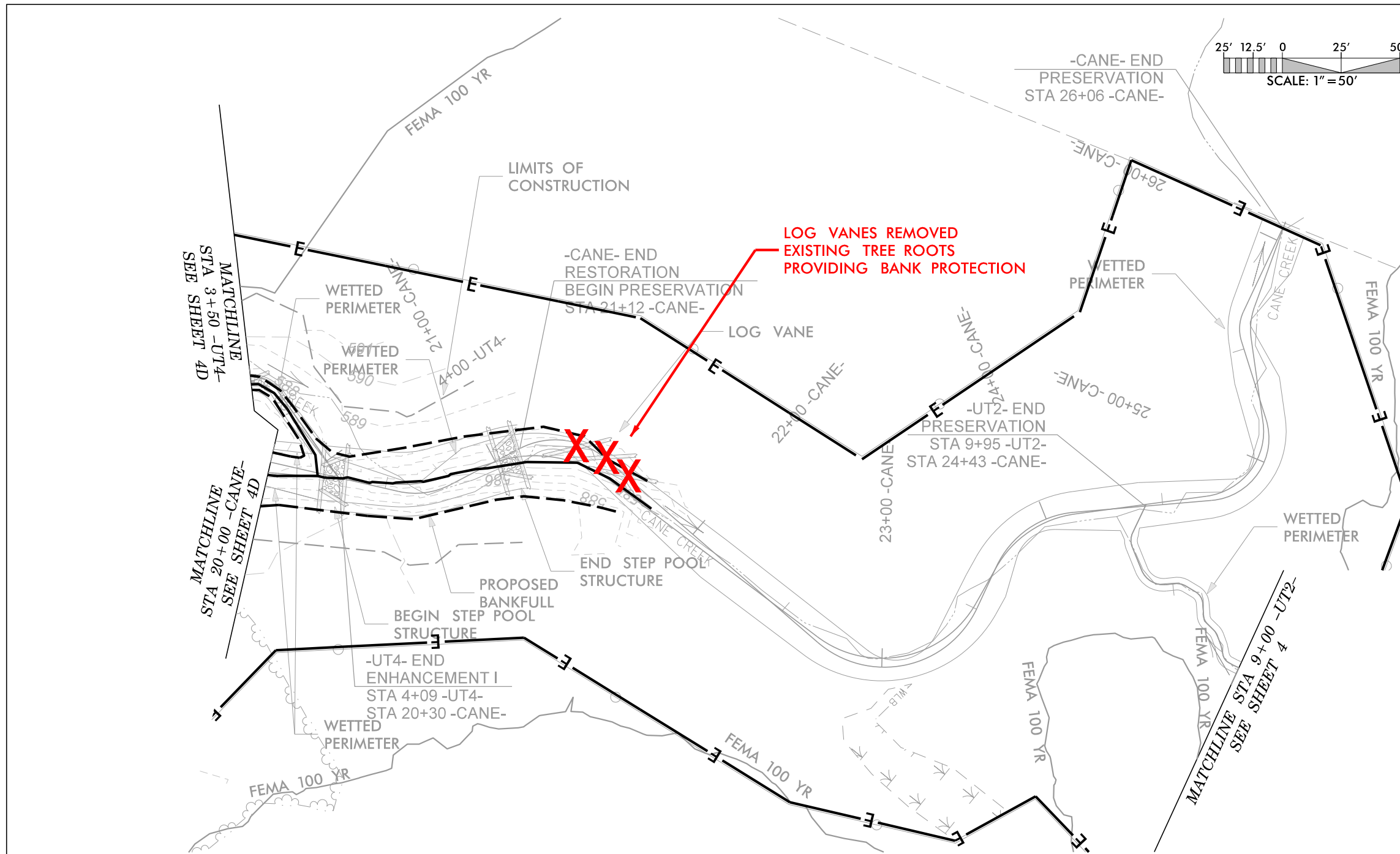
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AS-BUILT.dwg



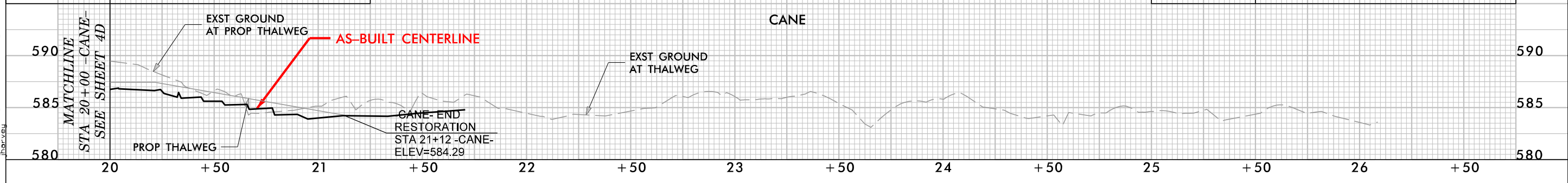
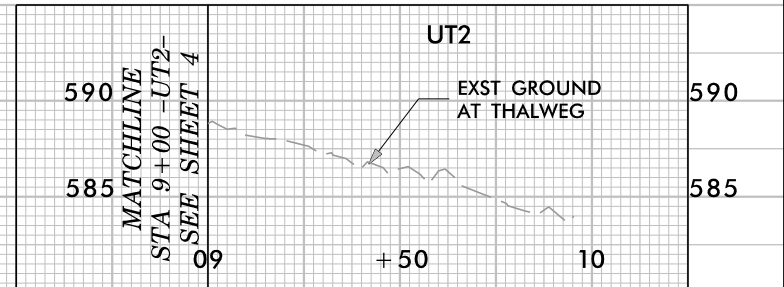
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HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88

RECORD DRAWING



STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
STEP POOL STRUCTURE	0	780,238.51	1,859,748.34	584.29	586.74
LOG VANE	0	780,170.96	1,859,814.50		
LOG VANE	0	780,162.20	1,859,810.46		
LOG VANE	0	780,162.86	1,859,822.75		

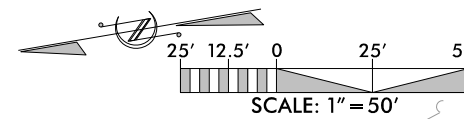


7/29/2022
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 JGD

-UT3- AS-BUILT STRUCTURE LOCATIONS

STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG CROSS VANE	0	780,637.82	1,858,158.27	616.85	
LOG CROSS VANE	0	780,825.19	1,858,129.51	616.34	
LOG CROSS VANE	0	780,385.89	1,858,075.38	614.74	
LOG CROSS VANE	0	780,543.84	1,858,060.70	613.59	613.65
LOG CROSS VANE	0	780,487.72	1,858,067.22	612.13	
LOG CROSS VANE	0	780,404.92	1,858,076.67	609.95	609.98
LOG CROSS VANE	0	780,392.05	1,858,086.18	609.34	609.44
LOG CROSS VANE	0	780,378.46	1,858,089.45	608.82	608.91

HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88

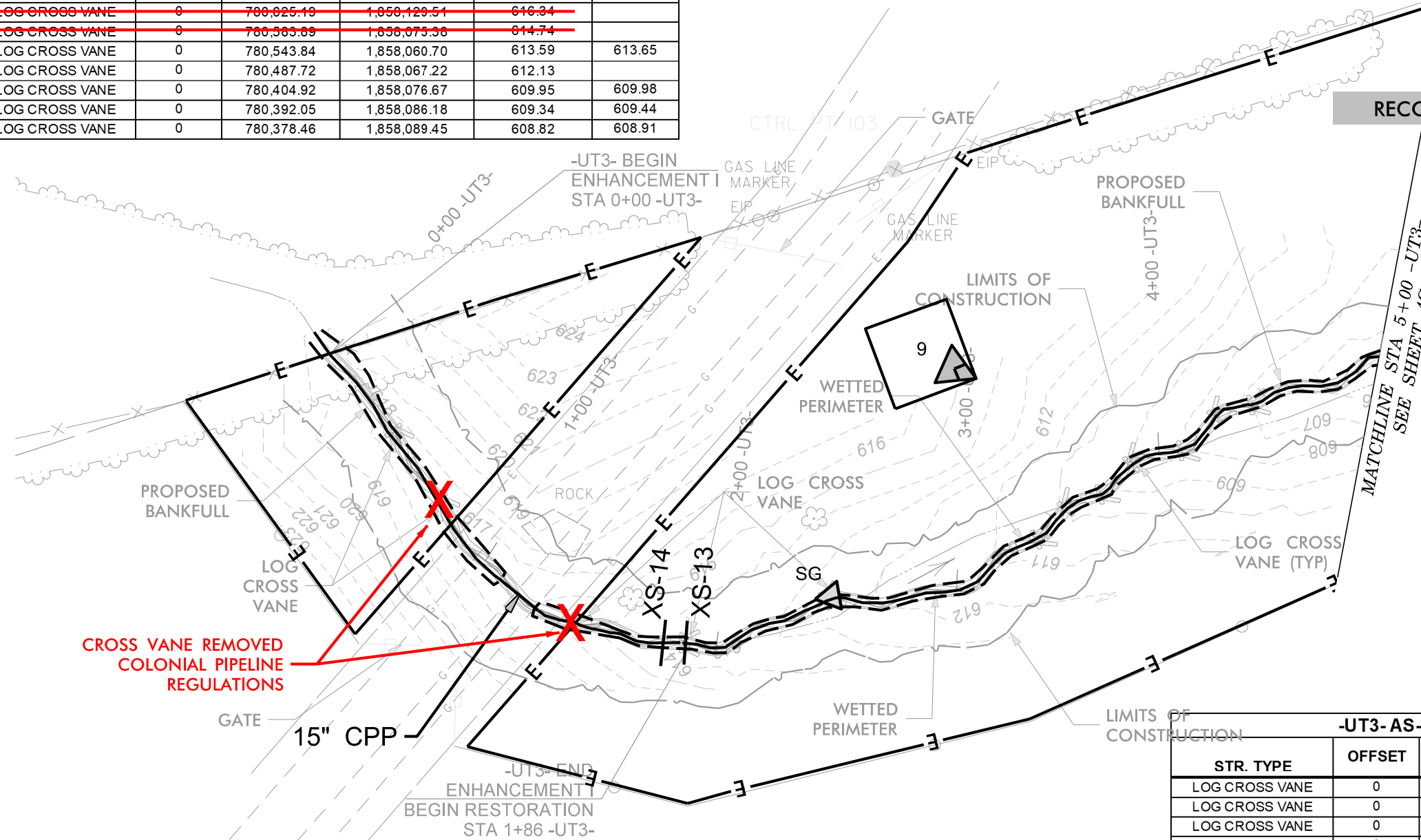


SHEET NAME	SHEET NUMBER
AS-BUILT STRUCTURES	4F
PROJECT NAME: PHANTOM STREAM AND WETLAND RESTORATION SITE	DATE: 2022
COUNTY: ALAMANCE	

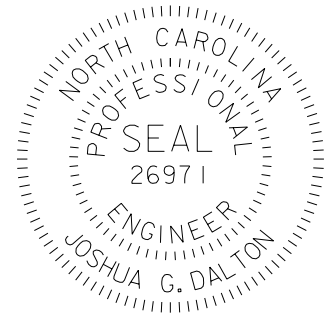
SUNGATE DESIGN GROUP, P.A.

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RALEIGH, NORTH CAROLINA 27606
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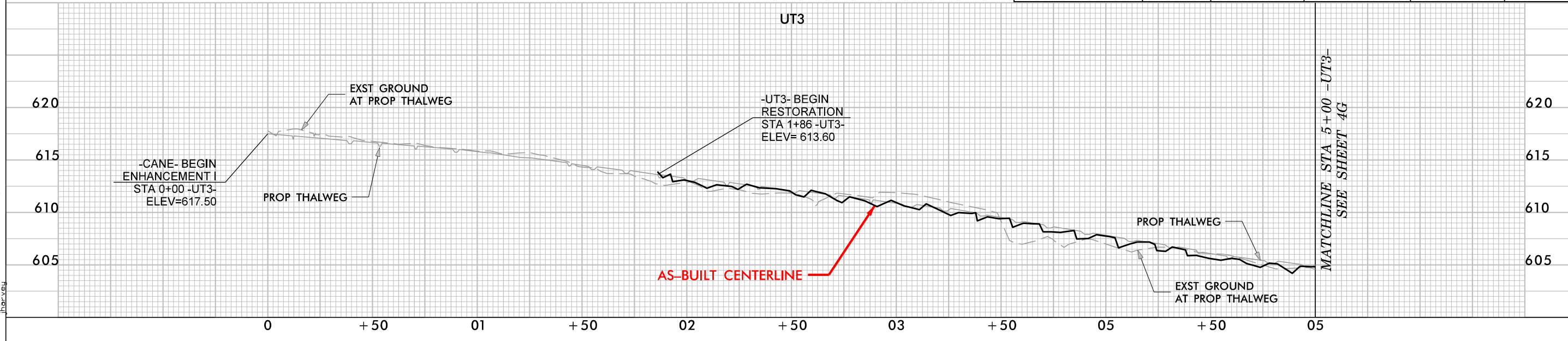


DATE:
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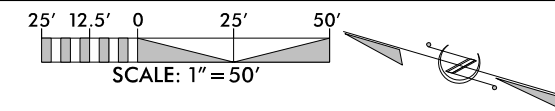
-UT3- AS-BUILT STRUCTURE LOCATIONS

STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG CROSS VANE	0	780,364.76	1,858,098.76	608.21	608.28
LOG CROSS VANE	0	780,345.56	1,858,100.66	607.53	607.59
LOG CROSS VANE	0	780,330.28	1,858,110.71	606.91	606.95
LOG CROSS VANE	0	780,316.46	1,858,113.25	606.41	



7/29/2022
Phantom_Stream_Hydro_psh_AB_04F.dgn
jbr-vau

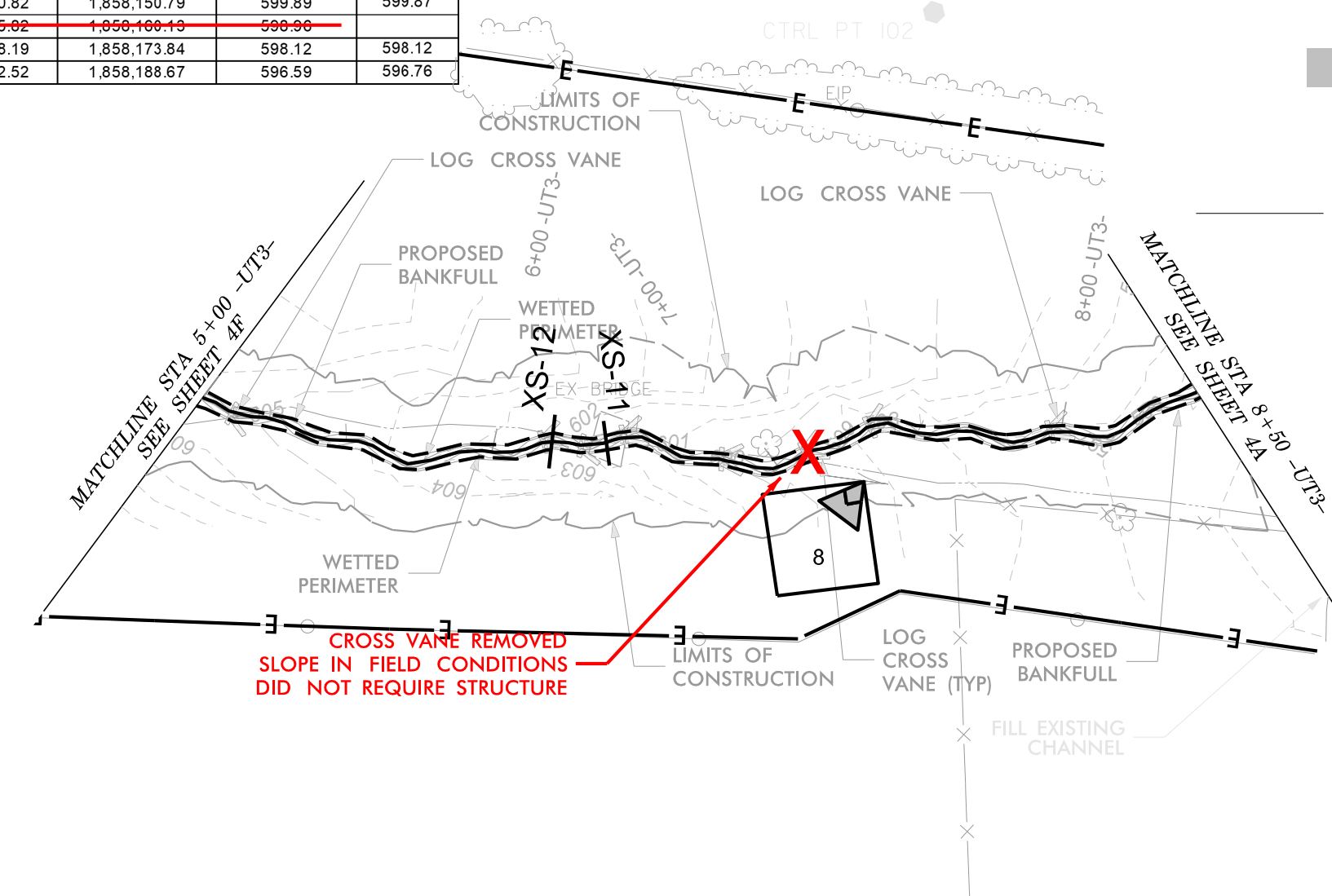
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STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG CROSS VANE	0	780,255.03	1,858,120.93	604.68	604.80
LOG CROSS VANE	0	780,156.97	1,858,140.11	601.88	601.96
LOG CROSS VANE	0	780,144.98	1,858,142.38	601.42	601.44
LOG CROSS VANE	0	780,132.66	1,858,149.03	600.88	600.86
LOG CROSS VANE	0	780,100.82	1,858,150.79	599.89	599.87
LOG CROSS VANE	0	780,075.02	1,858,160.13	598.96	
LOG CROSS VANE	0	780,058.19	1,858,173.84	598.12	598.12
LOG CROSS VANE	0	780,002.52	1,858,188.67	596.59	596.76



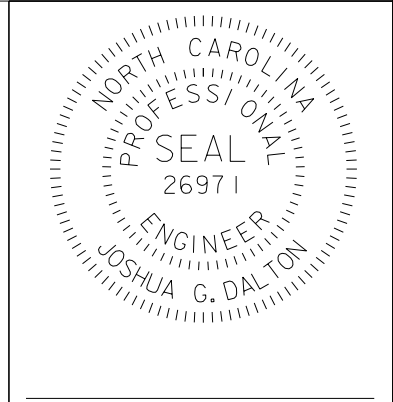
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AS-BUILT STRUCTURES	4G
PROJECT NAME: PHANTOM STREAM AND WETLAND RESTORATION SITE	COUNTY: ALAMANCE
	DATE: 2022

SUNGATE DESIGN GROUP, P.A.
 905 JONES FRANKLIN ROAD
 RALEIGH, NORTH CAROLINA 27606
 TEL (919) 859-2243
 ENG FIRM LICENSE NO. C-890

Axiom Environmental, Inc.

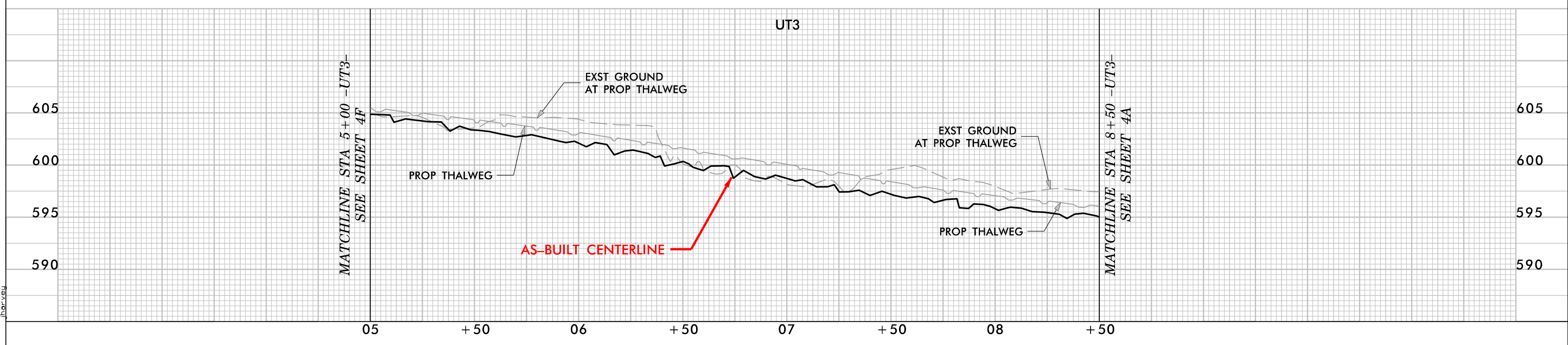


RECORD DRAWING



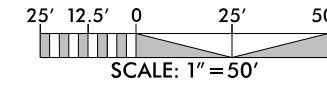
DATE: _____
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HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88



7/28/2022
 Phantoms_Hyd_psh_AB_04C.dgn
 jharvey

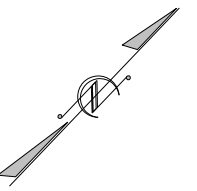
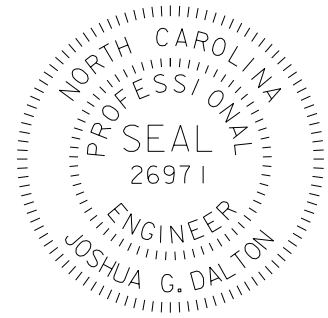
-UT1- AS-BUILT STRUCTURE LOCATIONS					
STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG CROSS VANE	0	780,004.28	1,858,036.30	502.88	



SHEET NAME	SHEET NUMBER
AS-BUILT STRUCTURES	4H
PROJECT NAME: PHANTOM STREAM AND WETLAND RESTORATION SITE	
COUNTY: ALAMANCE	DATE: 2022

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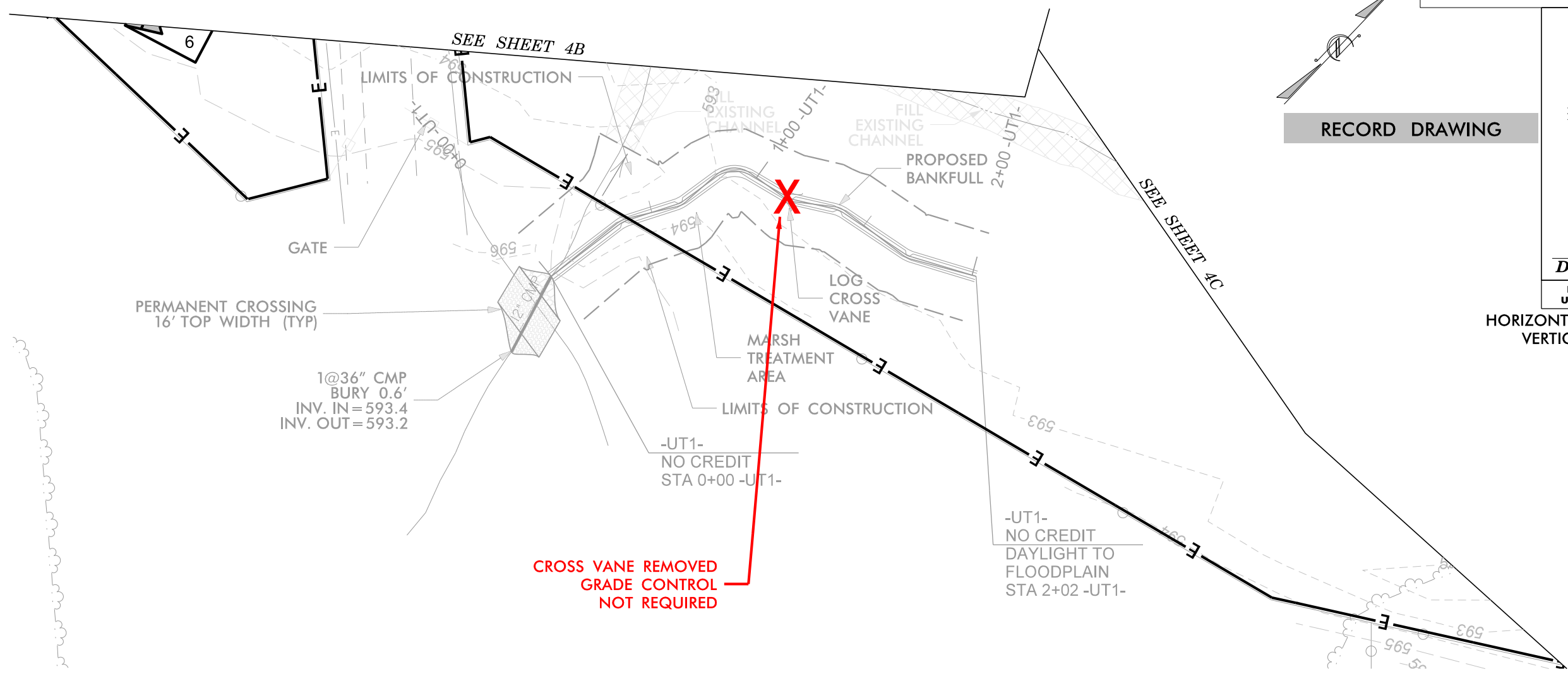
Axiom Environmental, Inc.



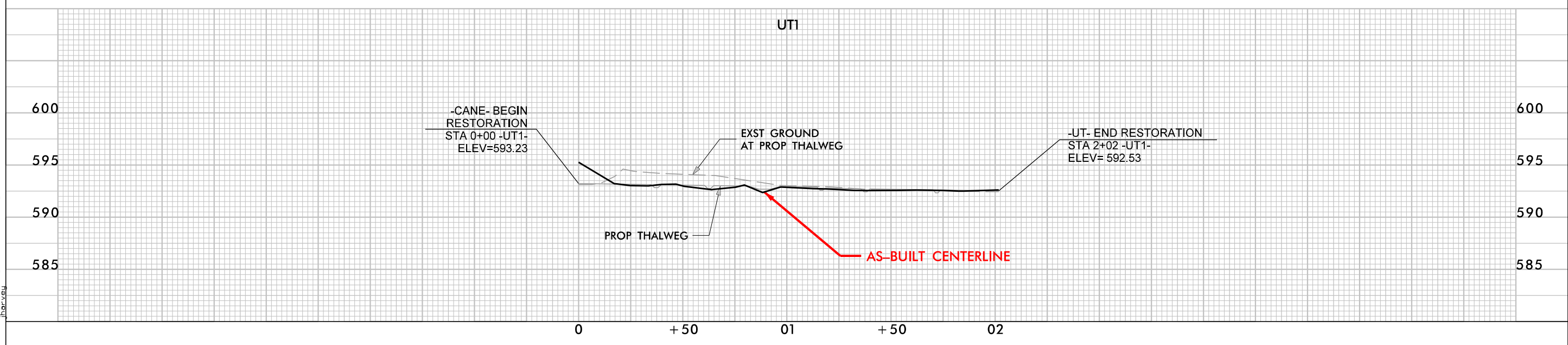
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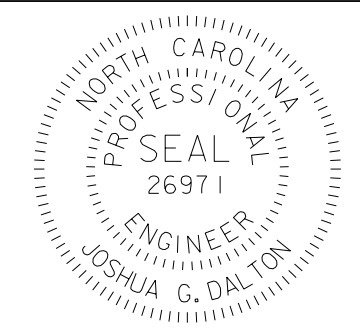
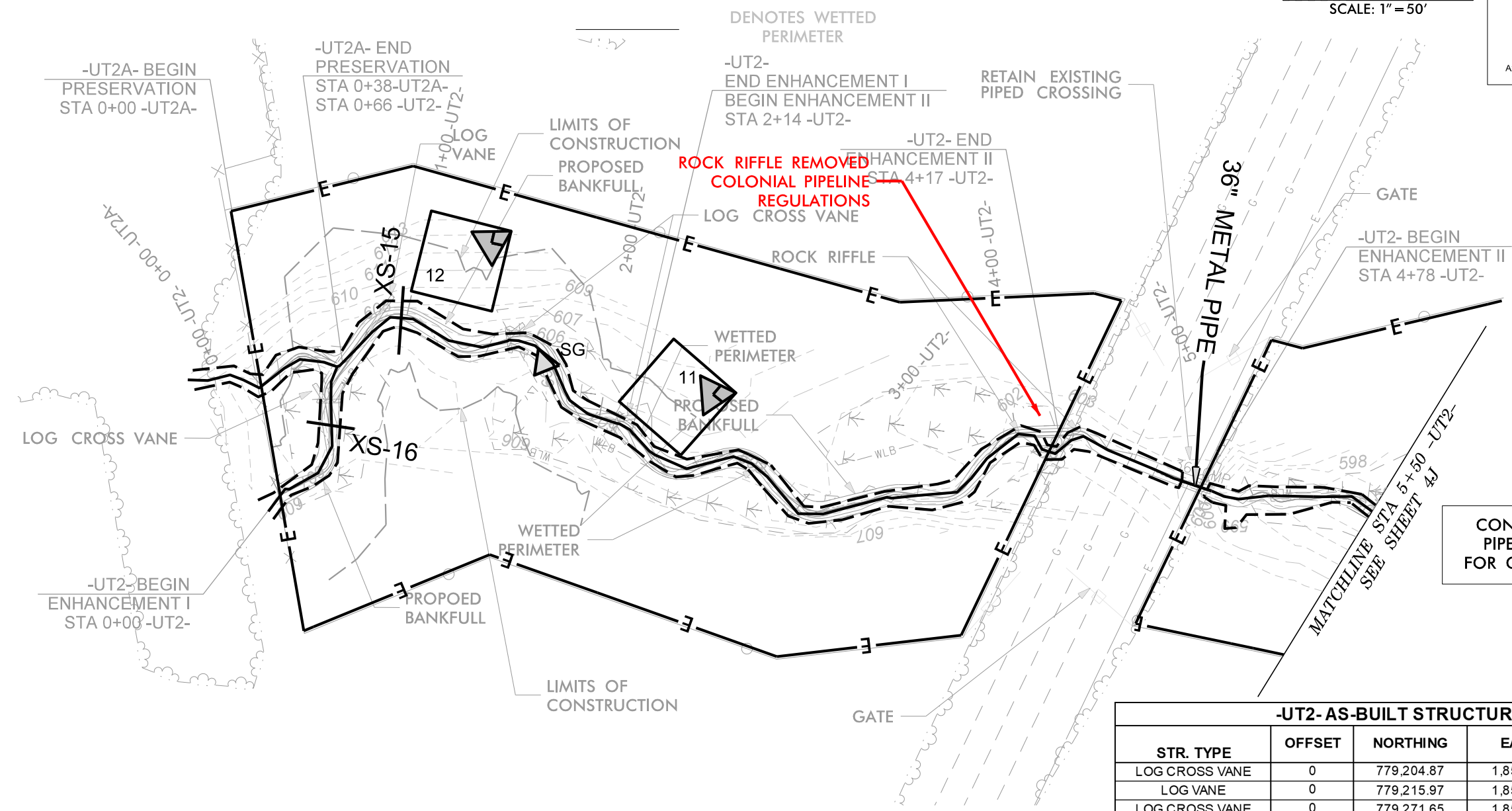
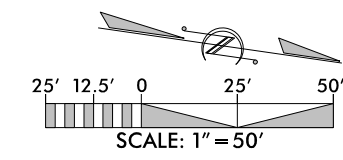
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88



**CROSS VANE REMOVED
 GRADE CONTROL
 NOT REQUIRED**



7/28/2022
 Phantom_Stream_Hydrology_04H.dgn
 jharvey



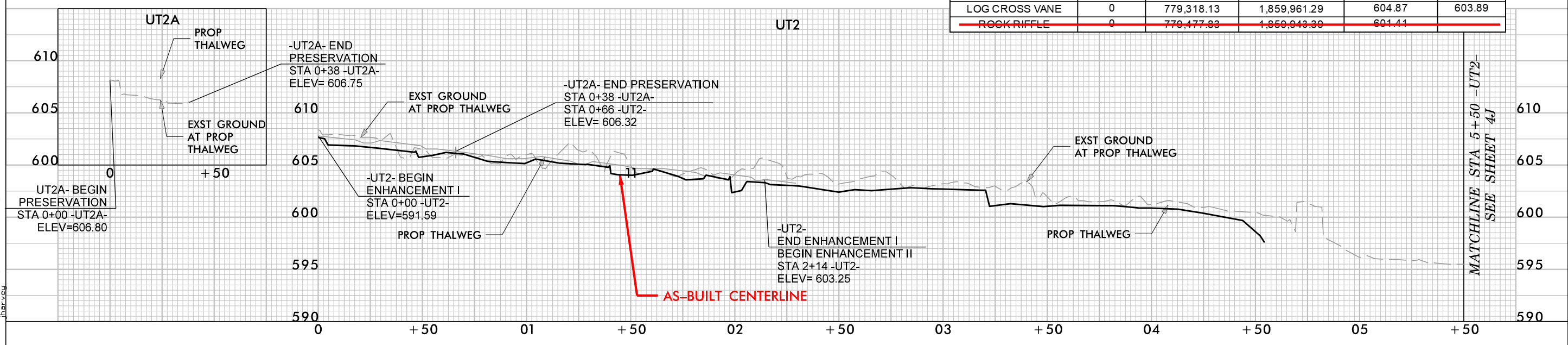
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HORIZONTAL DATUM: NAD 83 (2011)
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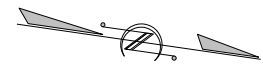
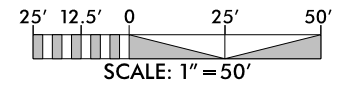
RECORD DRAWING

CONTRACTOR MUST CONTACT COLONIAL PIPELINE TO GET THEIR SPECIFICATIONS FOR CONSTRUCTING A PIPELINE CROSSING.


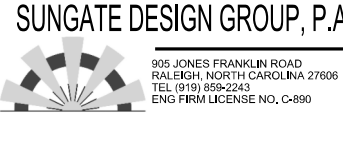
STR. TYPE	OFFSET	NORTHING	EASTING	ELEVATION	AB Survey Elevation
LOG CROSS VANE	0	779,204.87	1,859,968.73	607.05	606.33
LOG VANE	0	779,215.97	1,859,940.21	606.45	605.82
LOG CROSS VANE	0	779,271.65	1,859,935.22	605.68	604.92
LOG CROSS VANE	0	779,318.13	1,859,961.29	604.87	603.89
ROCK RIFFLE	0	779,477.83	1,859,943.30	601.41	



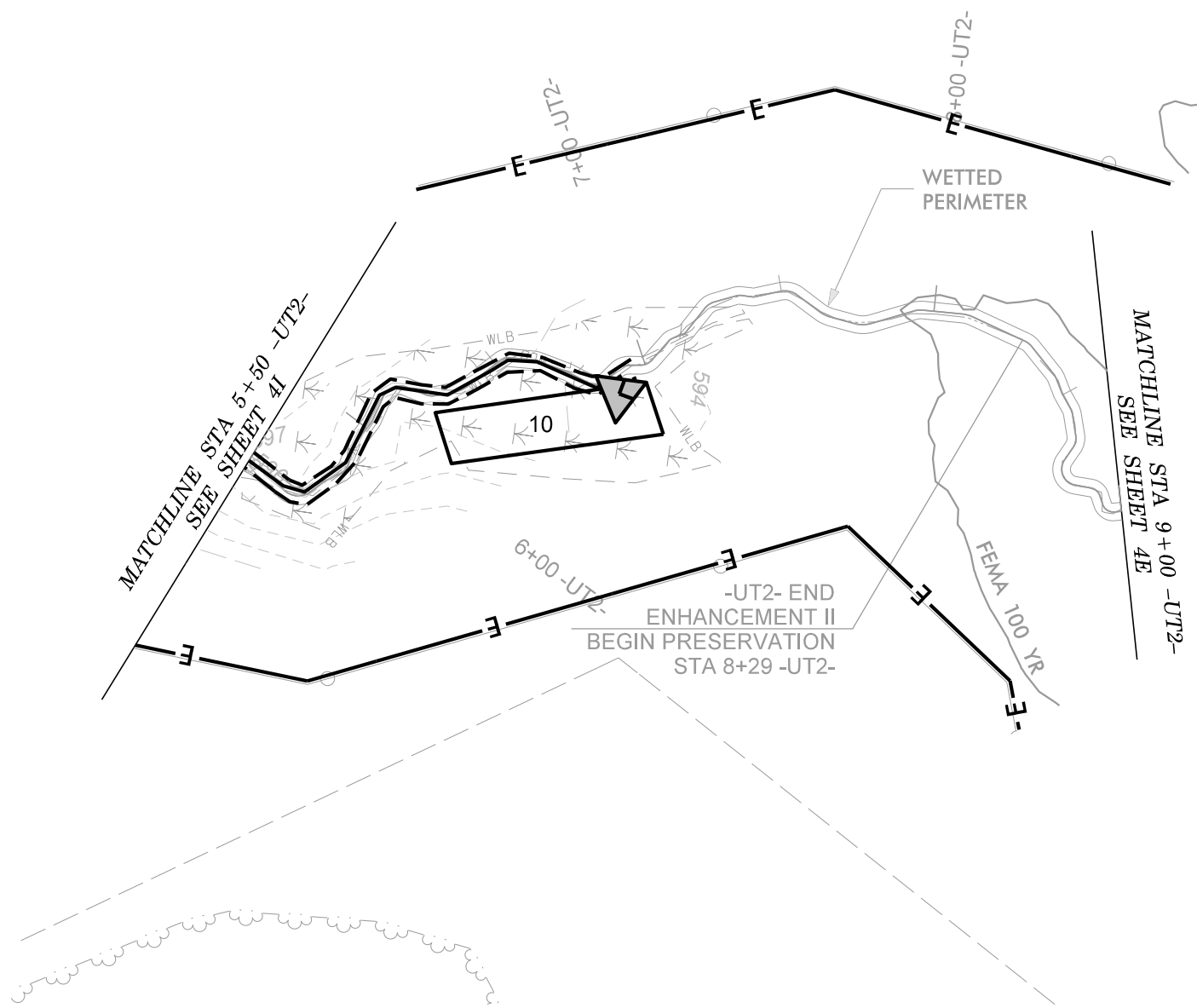
7/29/2022
 Phantoms_Hyd_psh_AB_041.dgn
 jbr.vay



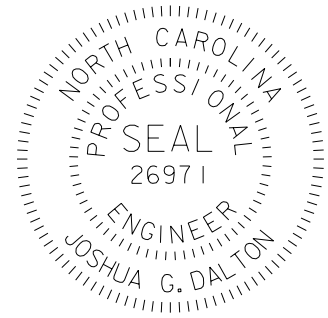
SHEET NAME	SHEET NUMBER
AS-BUILT STRUCTURES	4J
PROJECT NAME: PHANTOM STREAM AND WETLAND RESTORATION SITE	
COUNTY: ALAMANCE	DATE: 2022

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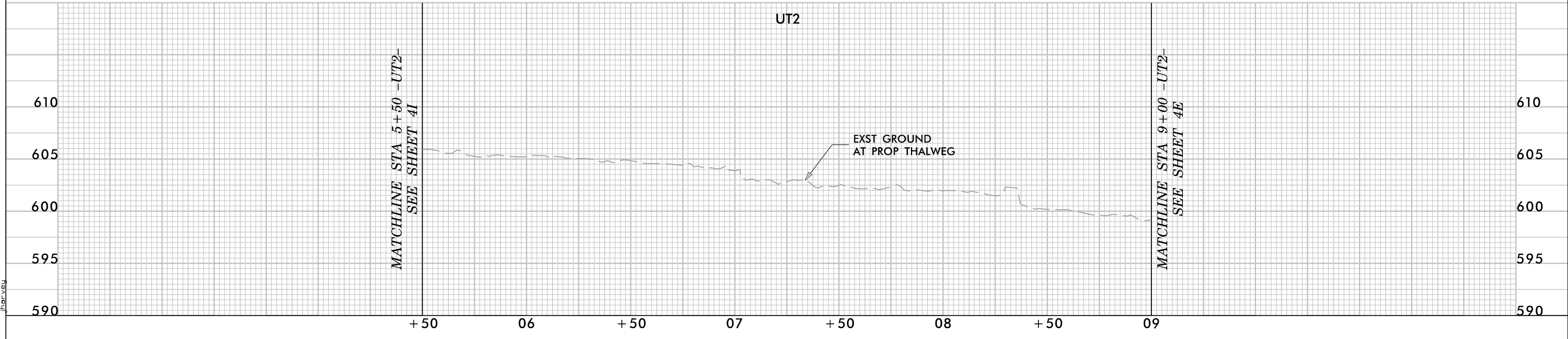


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HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88

————— DENOTES WETTED PERIMETER



7/28/2022
Phantom_Hyd_psh_AB_04.dgn
jbarney

RECORD DRAWING

DESIGN TABLE

Vegetation Association	Piedmont/Low Mountain Alluvial Forest*		Dry-Mesic Oak-Hickory Forest*		Marsh Treatment Wetland**		Stream-side Assemblage**		TOTAL
	Area (acres)								
	7.7		2.0		0.01		2.8		12.5
Species	# planted*	% of total	# planted*	% of total	# planted**	% of total	# planted**	% of total	# planted
Tag alder (<i>Alnus serrulata</i>)	--	--	--	--	3	10	381	5	384
River birch (<i>Betula nigra</i>)	524	10	--	--	--	--	381	5	904
Ironwood (<i>Carpinus caroliniana</i>)	--	--	272	20	--	--	--	--	272
Buttonbush (<i>Cephalanthus occidentalis</i>)	--	--	--	--	5	20	--	--	5
Red bud (<i>Cercis canadensis</i>)	--	--	204	15	--	--	--	--	204
Sweet pepperbush (<i>Clethra alnifolia</i>)	--	--	--	--	4	15	--	--	4
Silky dogwood (<i>Cornus amomum</i>)	524	10	--	--	4	15	1523	20	2051
Persimmon (<i>Diospyros virginiana</i>)	--	--	136	10	--	--	--	--	136
White ash (<i>Fraxinus americana</i>)	--	--	68	5	--	--	--	--	68
Green ash (<i>Fraxinus pennsylvanica</i>)	785	15	--	--	--	--	1142	15	1928
Blueberry (<i>Vaccinium corymbosum</i>)	--	--	--	--	3	10	--	--	3
Tulip poplar (<i>Liriodendron tulipifera</i>)	524	10	--	--	--	--	--	--	524
Sycamore (<i>Platanus occidentalis</i>)	1047	20	--	--	--	--	1523	20	2570
Black gum (<i>Nyssa sylvatica</i>)	--	--	204	15	--	--	--	--	204
White oak (<i>Quercus alba</i>)	--	--	204	15	--	--	--	--	204
Water oak (<i>Quercus nigra</i>)	1047	20	136	10	--	--	1142	15	2326
Willow oak (<i>Quercus phellos</i>)	785	15	136	10	--	--	762	10	1683
Black willow (<i>Salix nigra</i>)	--	--	--	--	--	--	762	10	762
Elderberry (<i>Sambucus canadensis</i>)	--	--	--	--	5	20	--	--	5
Possumhaw (<i>Viburnum nudum</i>)	--	--	--	--	3	10	--	--	3
TOTAL	5236	100	1360	100	27	100	7616	100	14239

* Planted at a density of 680 stems/acre.

** Planted at a density of 2720 stems/acre.

AS-BUILT TABLE

Table 6A. Planted Bare Root Woody Vegetation Phantom Mill Site

Species	Total
Acres	12.5
<i>Betula nigra</i>	1,000
<i>Celtis occidentalis</i>	500
<i>Cephalanthus occidentalis</i>	300
<i>Cercis canadensis</i>	750
<i>Cornus amomum</i>	2,000
<i>Diospyros virginiana</i>	500
<i>Fraxinus pennsylvanica</i>	700
<i>Liriodendron tulipifera</i>	1,000
<i>Morus rubra</i>	350
<i>Nyssa sylvatica</i>	500
<i>Platanus occidentalis</i>	1,500
<i>Quercus alba</i>	650
<i>Quercus lyrata</i>	600
<i>Quercus nigra</i>	1,250
<i>Quercus phellos</i>	1,250
<i>Quercus rubra</i>	600
<i>Quercus shumardii</i>	750
<i>Viburnum dentatum</i>	100
TOTALS	14,300
Average Stems/Acre	1,144