

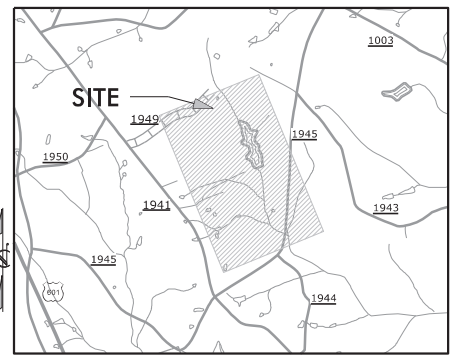
NC DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF MITIGATION SERVICES

AS-BUILT PLANS WITS END SITE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WITS END SITE	1	

INDEX OF SHEETS

SHEET NUMBER	SHEET
AB-01	Title Sheet
AB-02	Symbology
AB-03	Easement
AB-03A THRU AB-03G	As-Built Vegetation Plot, Groundwater Wells
AB-03H	Bridge As-Built
AB-04A THRU AB-04ZX	As-Built Structures
AB-04ZY	As-Built Planting List

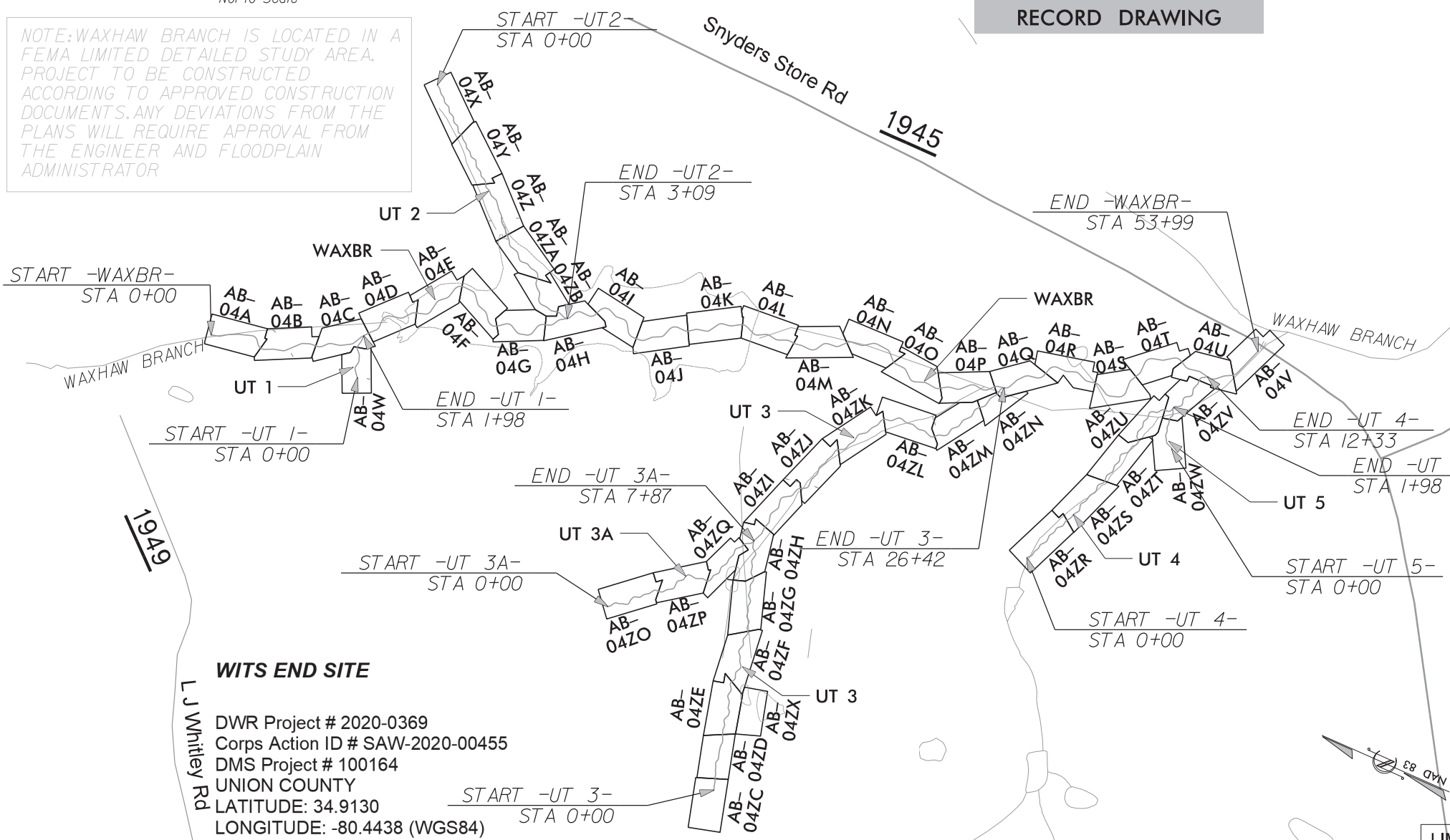


LOCATION: UNION COUNTY, NORTH CAROLINA

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

RECORD DRAWING

NOTE: WAXHAW BRANCH IS LOCATED IN A FEMA LIMITED DETAILED STUDY AREA. PROJECT TO BE CONSTRUCTED ACCORDING TO APPROVED CONSTRUCTION DOCUMENTS. ANY DEVIATIONS FROM THE PLANS WILL REQUIRE APPROVAL FROM THE ENGINEER AND FLOODPLAIN ADMINISTRATOR

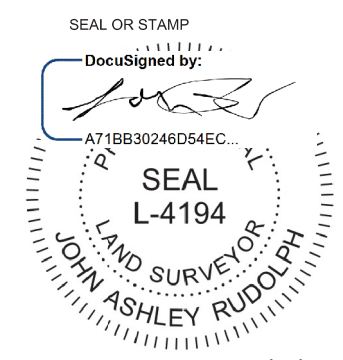


SURVEYORS CERTIFICATION(S)
 Surveyor's disclaimer: No attempt was made to locate any cemeteries, wetlands, hazardous material sites, underground utilities or any other features above, or below ground other than those shown. However, no visible evidence of cemeteries or utilities, aboveground or otherwise, 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 hereon; 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: May and June 2022
 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

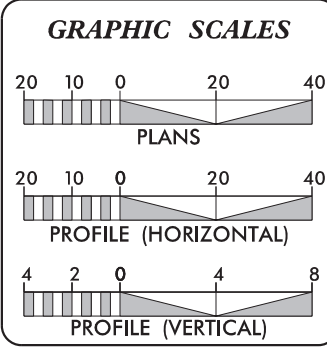
That this plat meets the requirements of the standards of practice for land surveying in North Carolina. Witness my hand and seal this 29th day of July, 2022.



10/7/2022
Professional Land Surveyor License Number

CONTRACT: WITS END SITE

WITS END SITE
 DWR Project # 2020-0369
 Corps Action ID # SAW-2020-00455
 DMS Project # 100164
 UNION COUNTY
 LATITUDE: 34.9130
 LONGITUDE: -80.4438 (WGS84)



PROPOSED LENGTH OF -WAXBR- = 5403	PROPOSED LENGTH OF -UT 3A- = 780		
PROPOSED LENGTH OF -UT 1- = 189	PROPOSED LENGTH OF -UT 4- = 1223		
PROPOSED LENGTH OF -UT 2- = 1240	PROPOSED LENGTH OF -UT 5- = 192		
PROPOSED LENGTH OF -UT 3- = 2629			
TOTAL STREAM LENGTHS (LF) = 11656			
RESTORATION LEVEL	STREAM (linear footage)	RIPARIAN WETLAND (acreage)	NONRIPARIAN WETLAND (acreage)
RESTORATION	10,289	22.833 (Reestablishment)	0.000
ENHANCEMENT I	232	1.442 (Rehabilitation)	0.000
ENHANCEMENT II	976	0.000	0.000
PRESERVATION	0	4.916	0.000
CREATION	0	0.351	0.000
TOTALS	11,497	29.602	0.000
MITIGATION UNITS	11,525.946 SMUs	24.163 RIPARIAN WMUs	NONRIPARIAN WMUs

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

Restoration Systems, LLC
 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

DocuSigned by:
Josh Dalton
 1089AD8C14994C3...
 26971
JOSHUA G. DALTON
 ENGINEER
 10/7/2022
 DATE:

10/6/2022 Wits_End_psh_AB-01.dgn jnarvey

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

RECORD DRAWING

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	EP
Computed Property Corner	-----
Property Monument	EDM
Parcel/Sequence Number	(23)
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	○
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	---WLB---
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 CA 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	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	-----

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.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

TELEPHONE:

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

WATER:

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

GAS:

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

SANITARY SEWER:

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

SS Forced Main Line LOS D (S.U.E.*)	-----
-------------------------------------	-------

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
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.
Existing Contour Major	-----
Existing Contour Minor	-----
Contour Interval = 1 ft	

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	-----
-----------------	-------

SUNGATE DESIGN GROUP, P.A.
 834 GILES FARM ROAD
 SUITE 100
 TEL: (919) 855-2243
 ENG FIRM LICENSE NO. C-980

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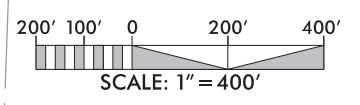
WITS END
 UNION COUNTY, NC
 SYMBOLOGY

PROJECT # :	1221-20024
DRAWING NAME:	WITS END PSH AB-02
DATE:	2022
DRAWN BY:	JRH
REVIEWED BY:	JGD
REVISIONS:	

SHEET NO.
AB-02

10/6/2022
 Wits_End_PSH_AB-02.dgn
 jgd

SURVEY INFORMATION PROPERTY/
EASEMENT PROVIDED BY:
CAROLINA SURVEYORS, INC.
P.O. BOX 267
PINEVILLE, NC 28134



HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 1988

Snyders Store Rd

1945

WAXBR

WAXBR

WAXHAW BRANCH

WAXHAW BRANCH

L J Whitley Rd

1949

UT 1

UT 2

UT 3A

UT 3

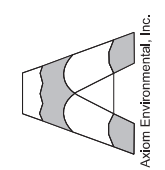
UT 4

UT 5

— CE — CONSERVATION EASEMENT

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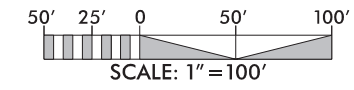
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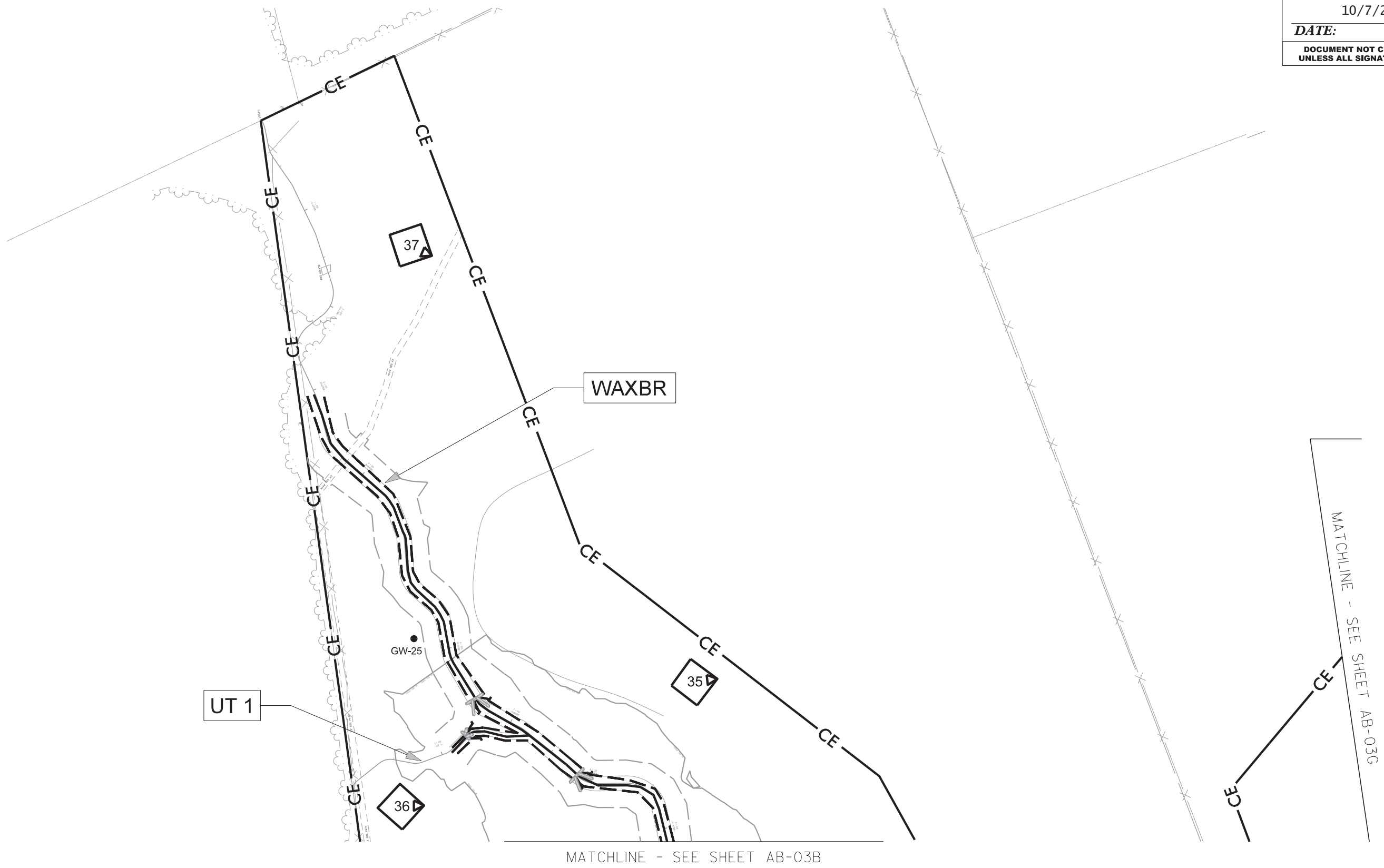
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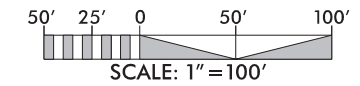
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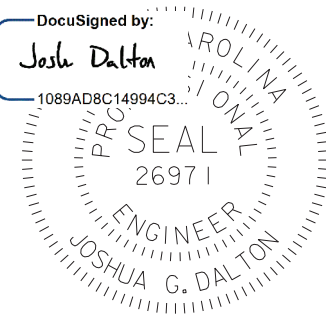


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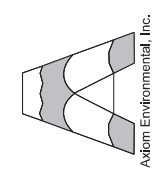
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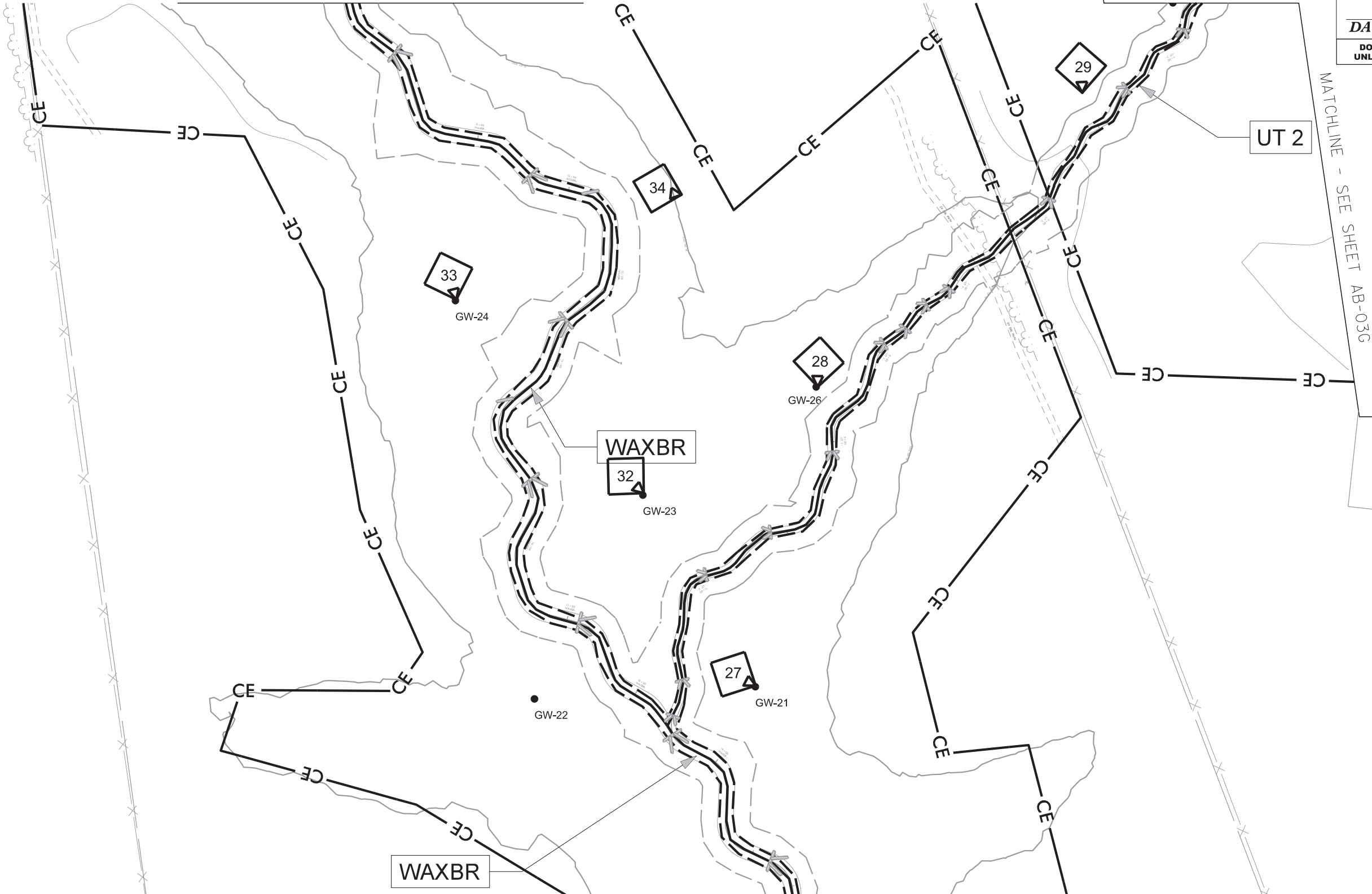
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AS-BUILT VEGETATION PLOTS, GROUNDWATER WELLS

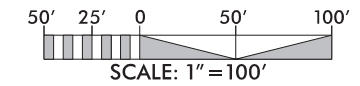
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SHEET NO.
AB-03B

MATCHLINE - SEE SHEET AB-03A

MATCHLINE - SEE SHEET AB-03C

MATCHLINE - SEE SHEET AB-03C





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 850 GILES FARM ROAD
 WILSON, NC 27604
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 UNION COUNTY, NC
AS-BUILT VEGETATION PLOTS, GROUNDWATER WELLS

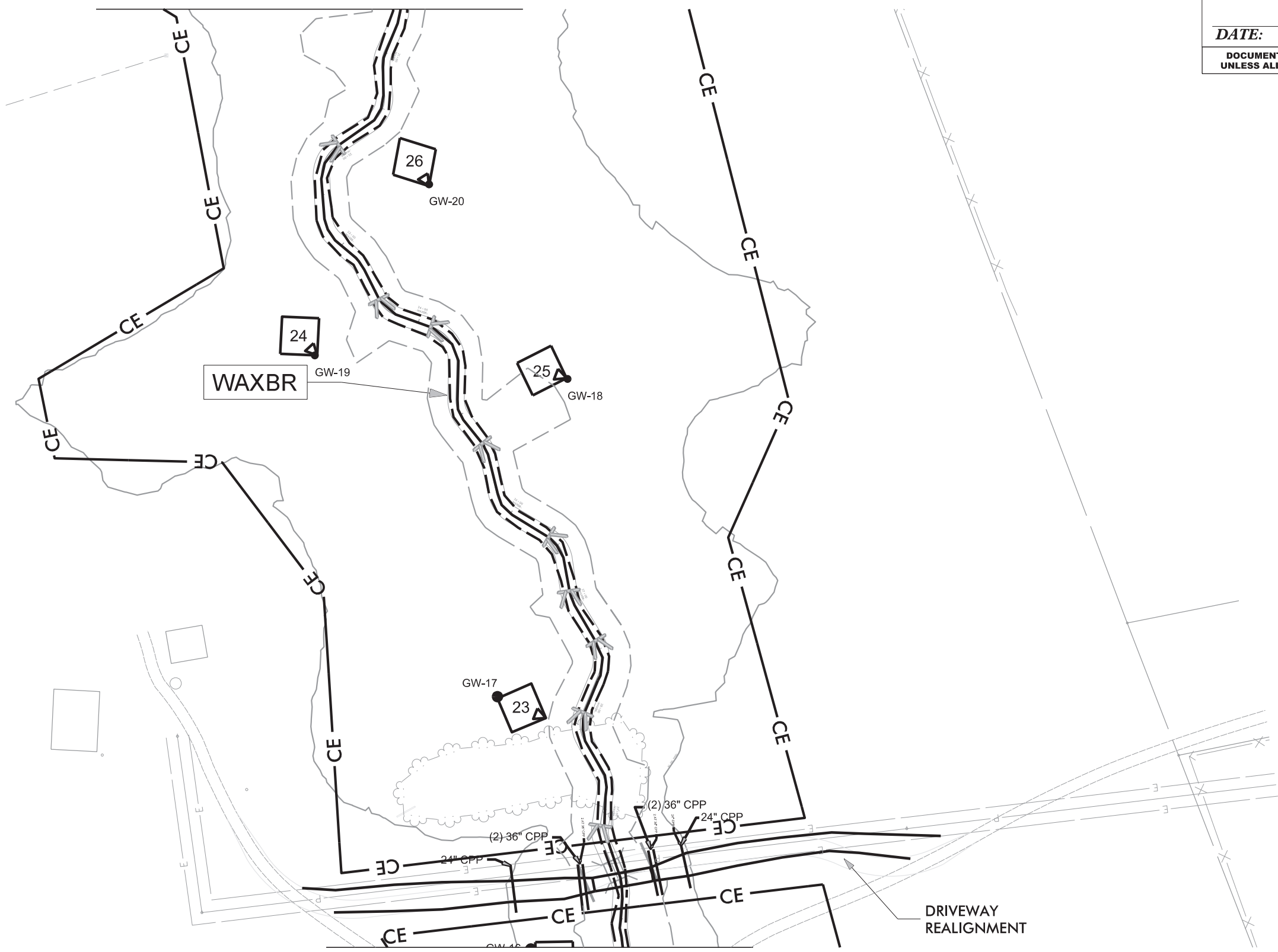
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MATCHLINE - SEE SHEET AB-03B

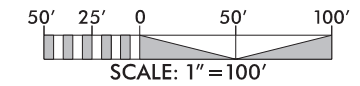
MATCHLINE - SEE SHEET AB-03D

MATCHLINE - SEE SHEET AB-03G



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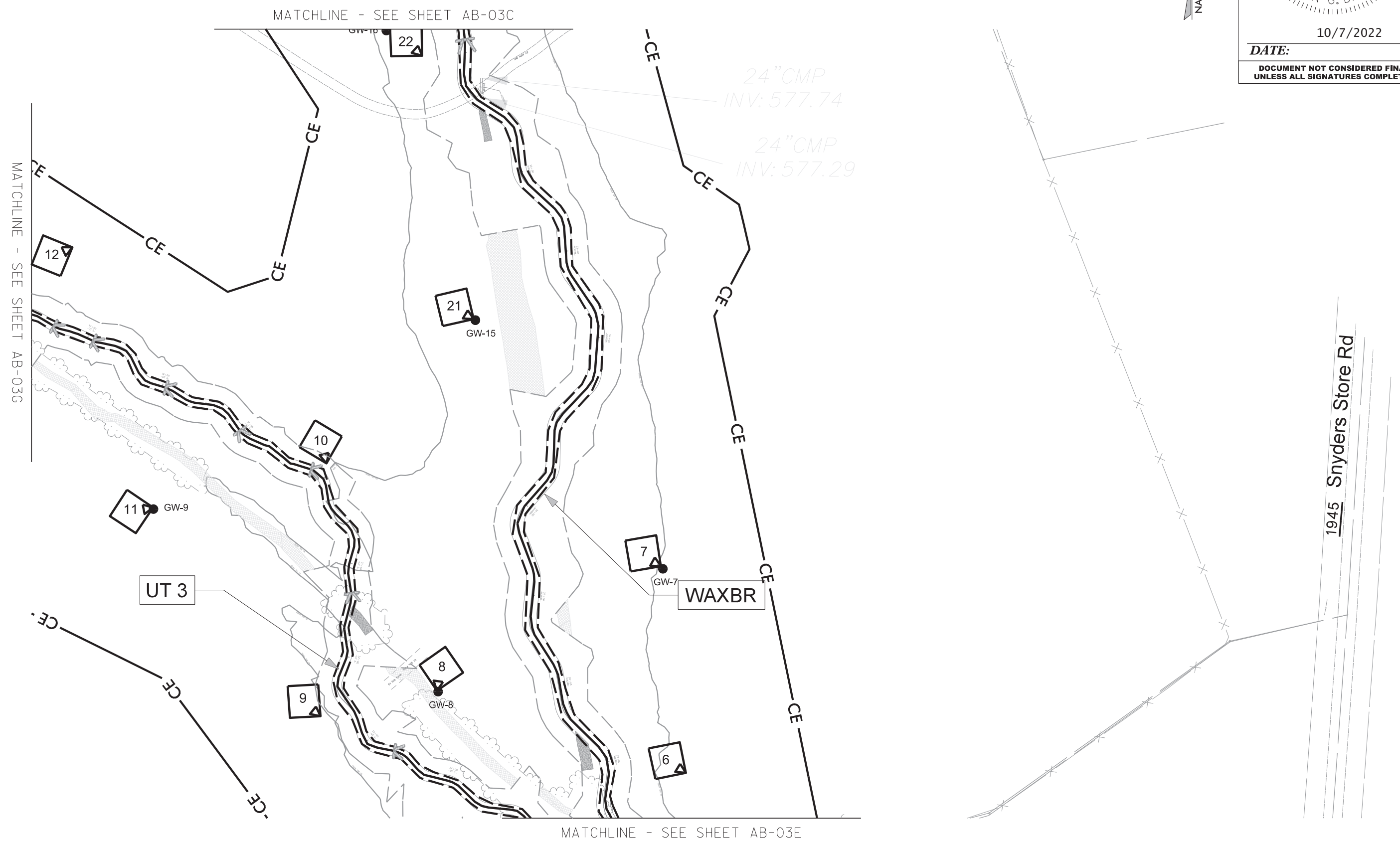
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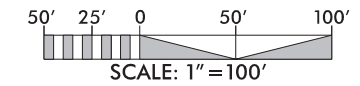
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AS-BUILT VEGETATION PLOTS, GROUNDWATER WELLS

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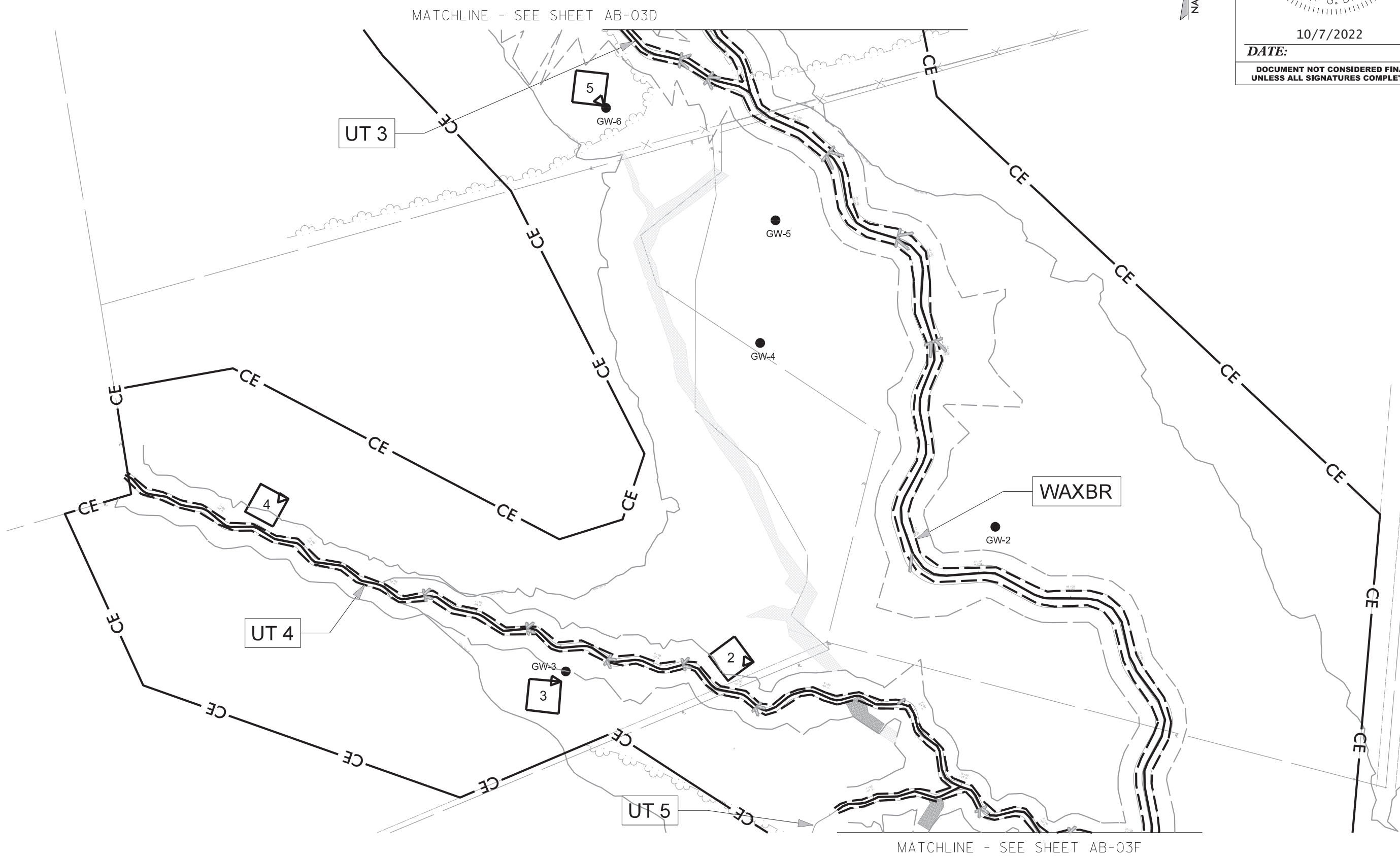
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AS-BUILT VEGETATION PLOTS, GROUNDWATER WELLS

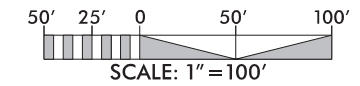
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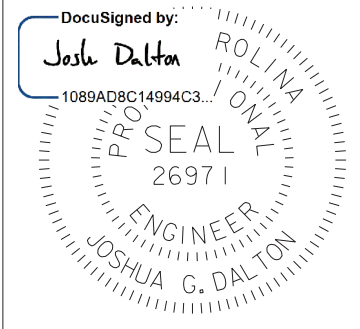
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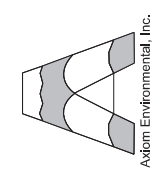


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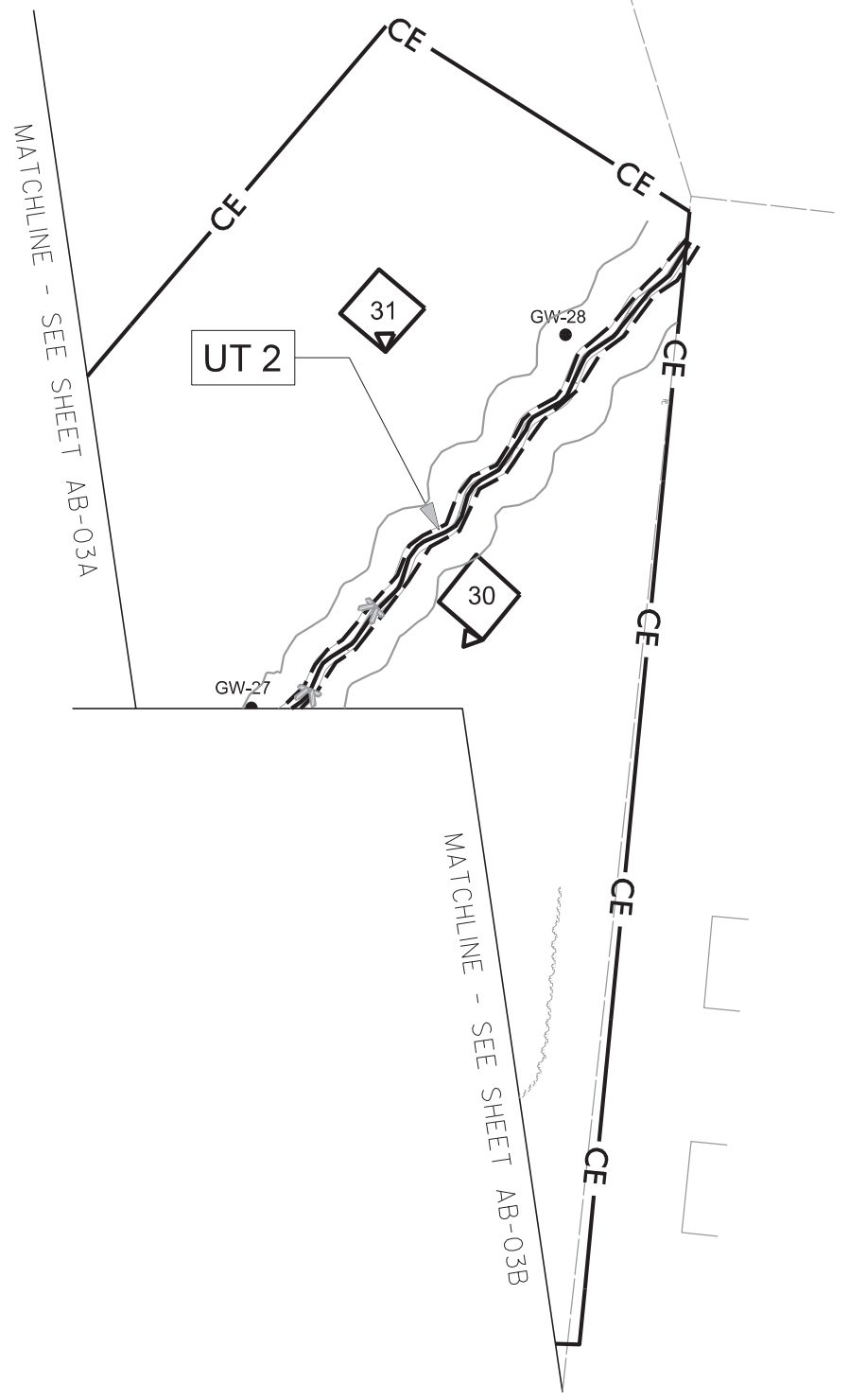
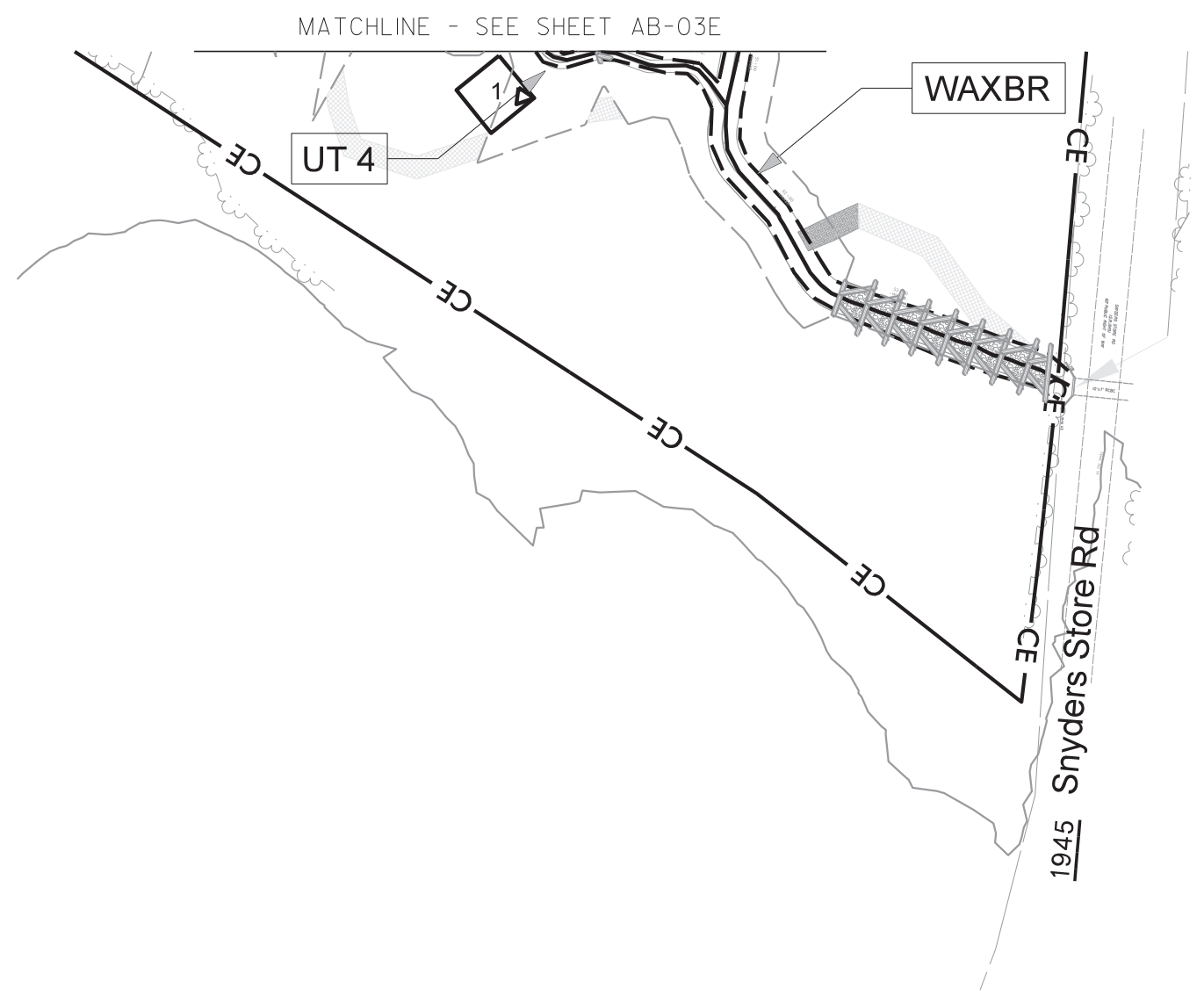
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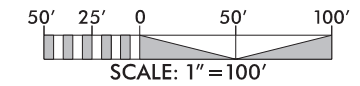


WITS END
UNION COUNTY, NC
AS-BUILT VEGETATION PLOTS, GROUNDWATER WELLS

PROJECT # : 1221-20024
DRAWING NAME: WITS END PSH AB-03F
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

SHEET NO.
AB-03F





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Josh Dalton
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JOSHUA G. DALTON
 ENGINEER
 10/7/2022

DATE:
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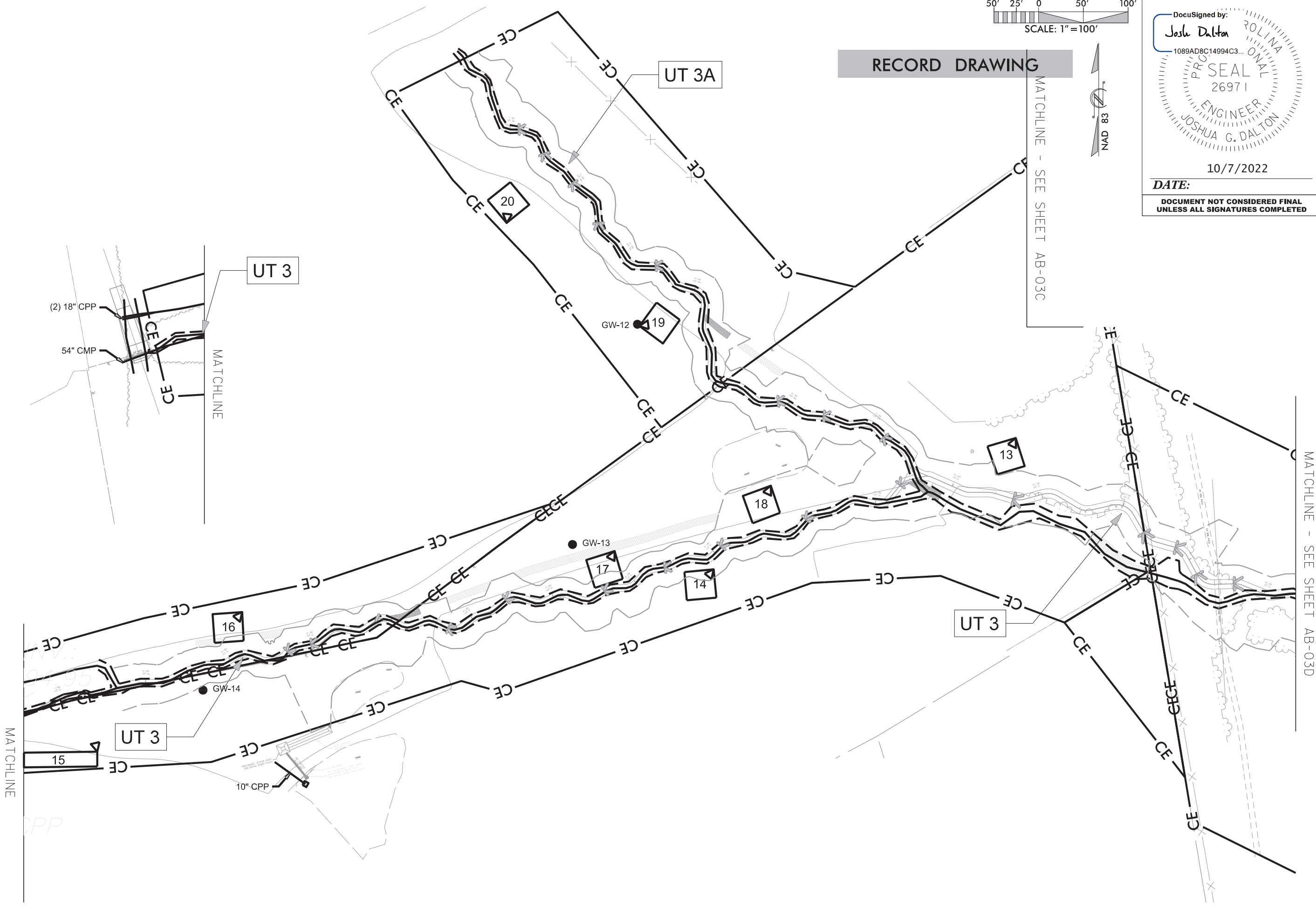
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 SUITE 200
 FAYETTEVILLE, NC 27806
 TEL: (919) 856-2243
 ENG FIRM LICENSE NO. C-980

Axiom Environmental, Inc.

WITS END
 UNION COUNTY, NC
AS-BUILT VEGETATION PLOTS, GROUNDWATER WELLS

PROJECT # :	1221-20024
DRAWING NAME:	WITS END PSH AB-03G
DATE:	2022
DRAWN BY:	JRH
REVIEWED BY:	JGD
REVISIONS:	

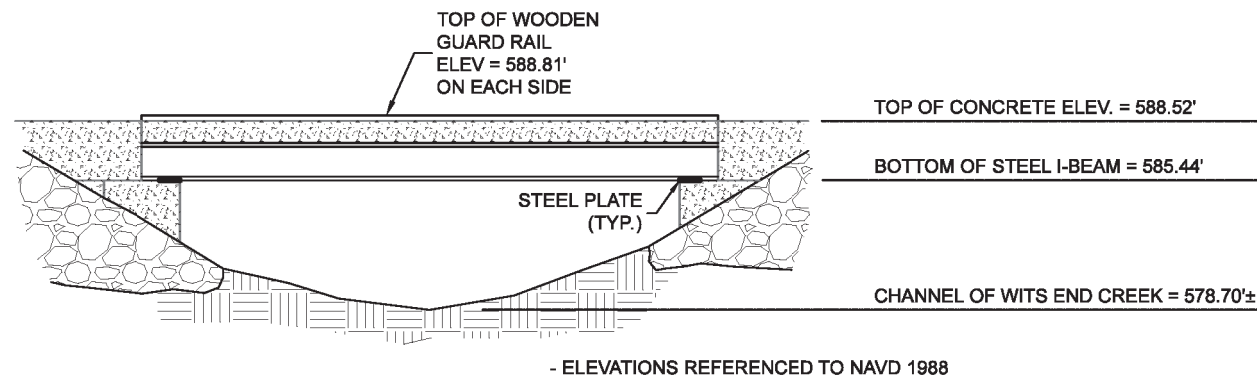
SHEET NO.
AB-03G



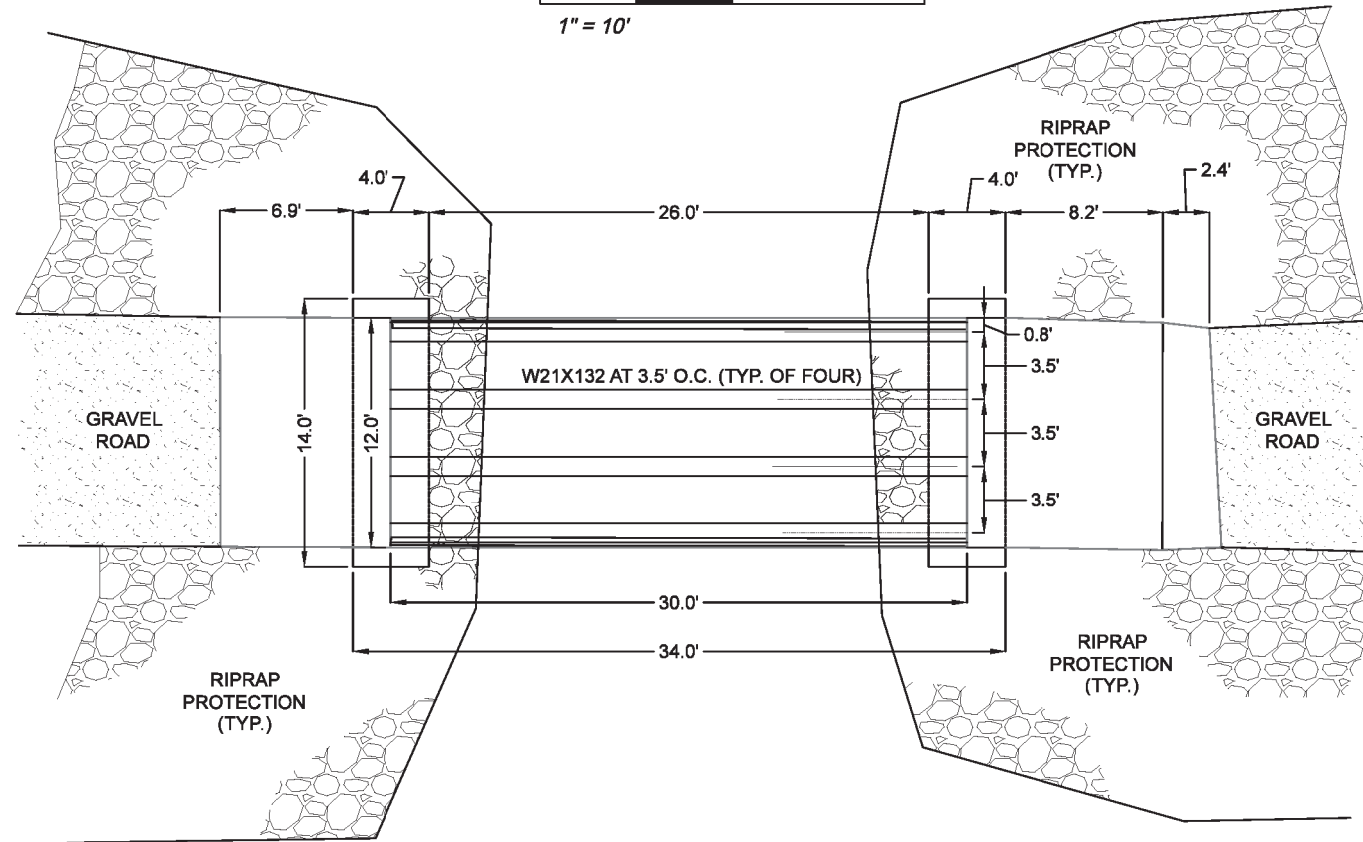
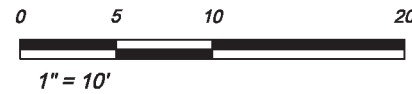
10/6/2022
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 jrh

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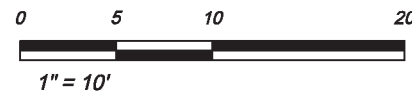
RECORD DRAWING



LONGITUDINAL SECTION



PLAN VIEW

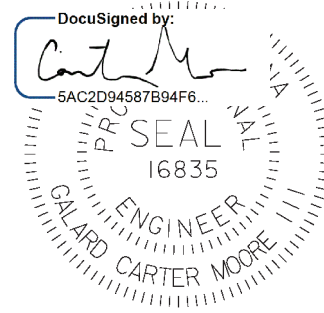


EXISTING BRIDGE
SEPTEMBER 2022

ENGINEERS CERTIFICATION(S)

Witness my original signature, registration number and seal this 26th day of September, A.D., 2022

Seal or Stamp

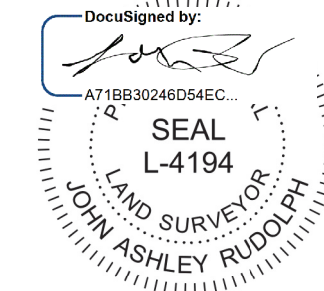


Professional Engineer

SURVEYORS CERTIFICATION(S)

Witness my original signature, registration number and seal this 26th day of September, A.D., 2022

Seal or Stamp



Professional Land Surveyor

774 S. Beston Road
La Grange, NC 28551
252.562.3097
www.k2designgroup.com
Firm license no.: C-2111



RESTORATION SYSTEMS, LLC
1101 HAYNES STREET
SUITE 211
RALEIGH, NC 27604



Client

WITS END SITE
Union County,
North Carolina

BRIDGE AS-BUILT
Plan View and
Longitudinal view

Project

Title

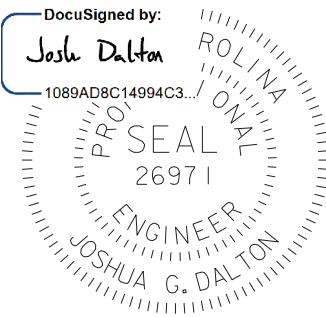
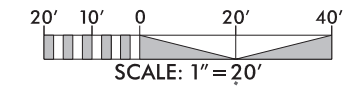
DRAWN BY: FGR

DATE: 9/23/22

SURVEYED BY: J.A.R.

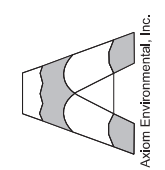
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SHEET
1 OF 1

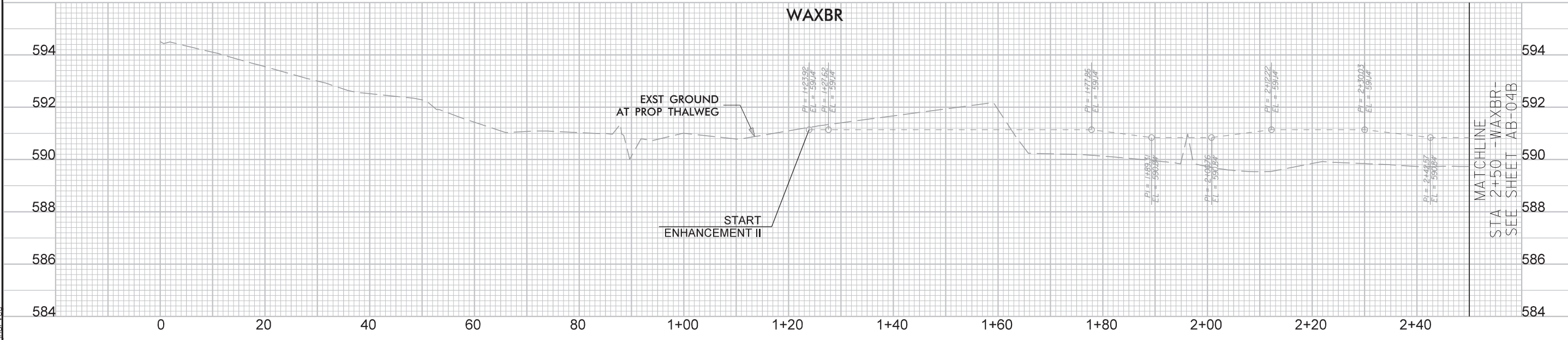
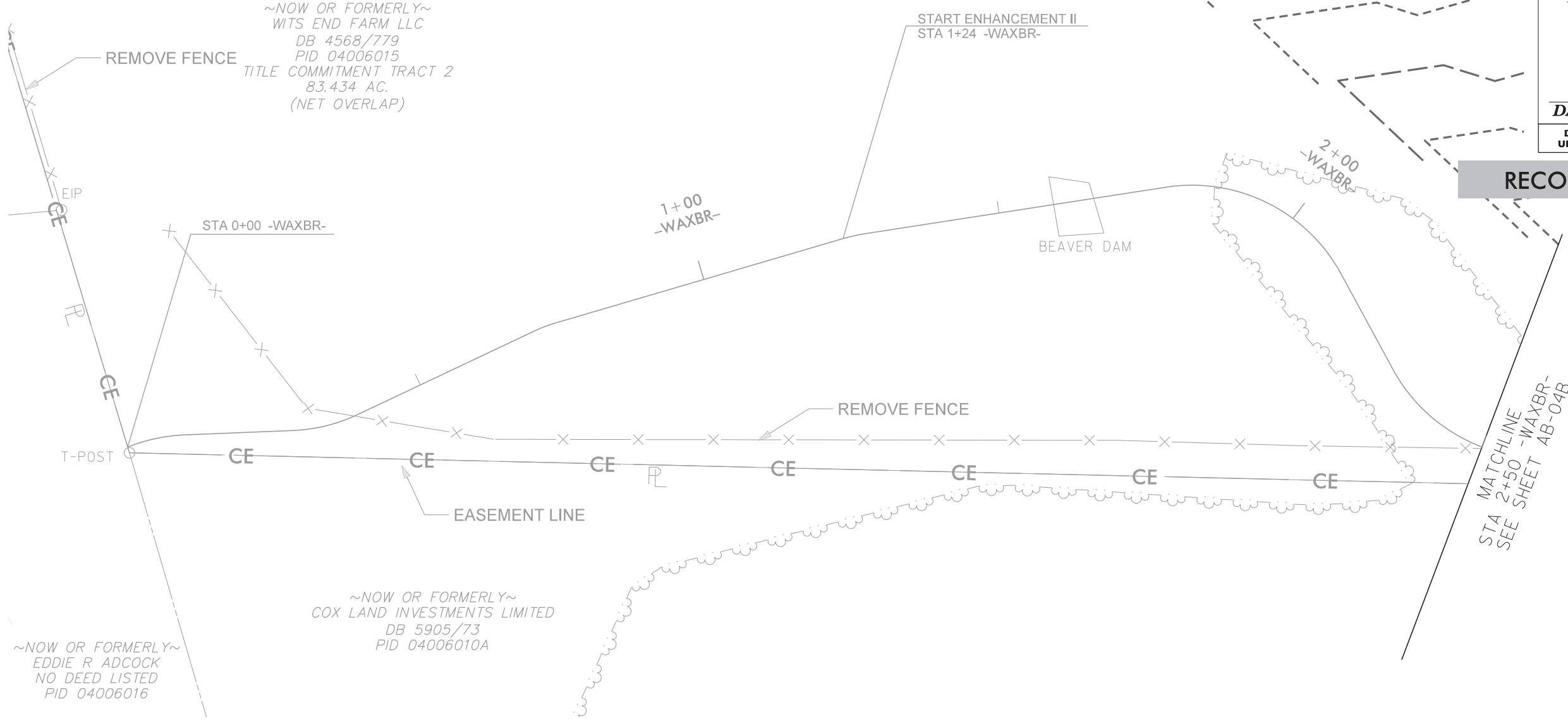


DocuSigned by:
Josh Dalton
 1089AD8C14994C3...
DATE:
 10/7/2022
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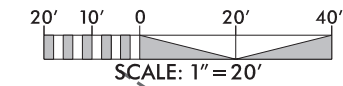
WITS END
 UNION COUNTY, NC

AS-BUILT STRUCTURES

PROJECT # :
 1221-20024
 DRAWING NAME:
 WITS END PSH AB-04A
 DATE:
 2022
 DRAWN BY:
 JRH
 REVIEWED BY:
 JGD
 REVISIONS:

SHEET NO.
AB-04A

10/6/2022
 Wits_End_Psh_AB-04A.dgn



DocuSigned by:
Josh Dalton
 1089AD8C14994C3...
 PROFESSIONAL SEAL
 26971
 ENGINEER
 JOSHUA G. DALTON

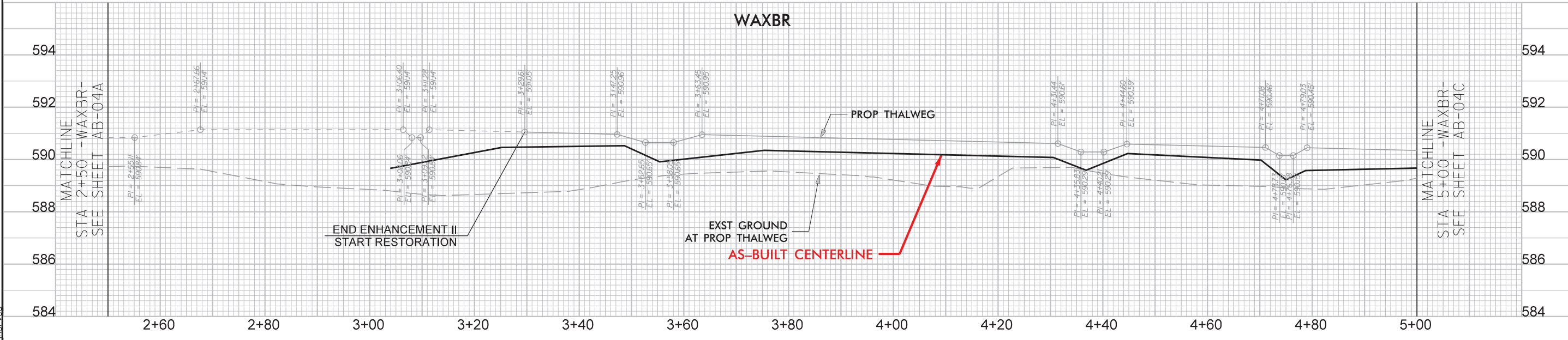
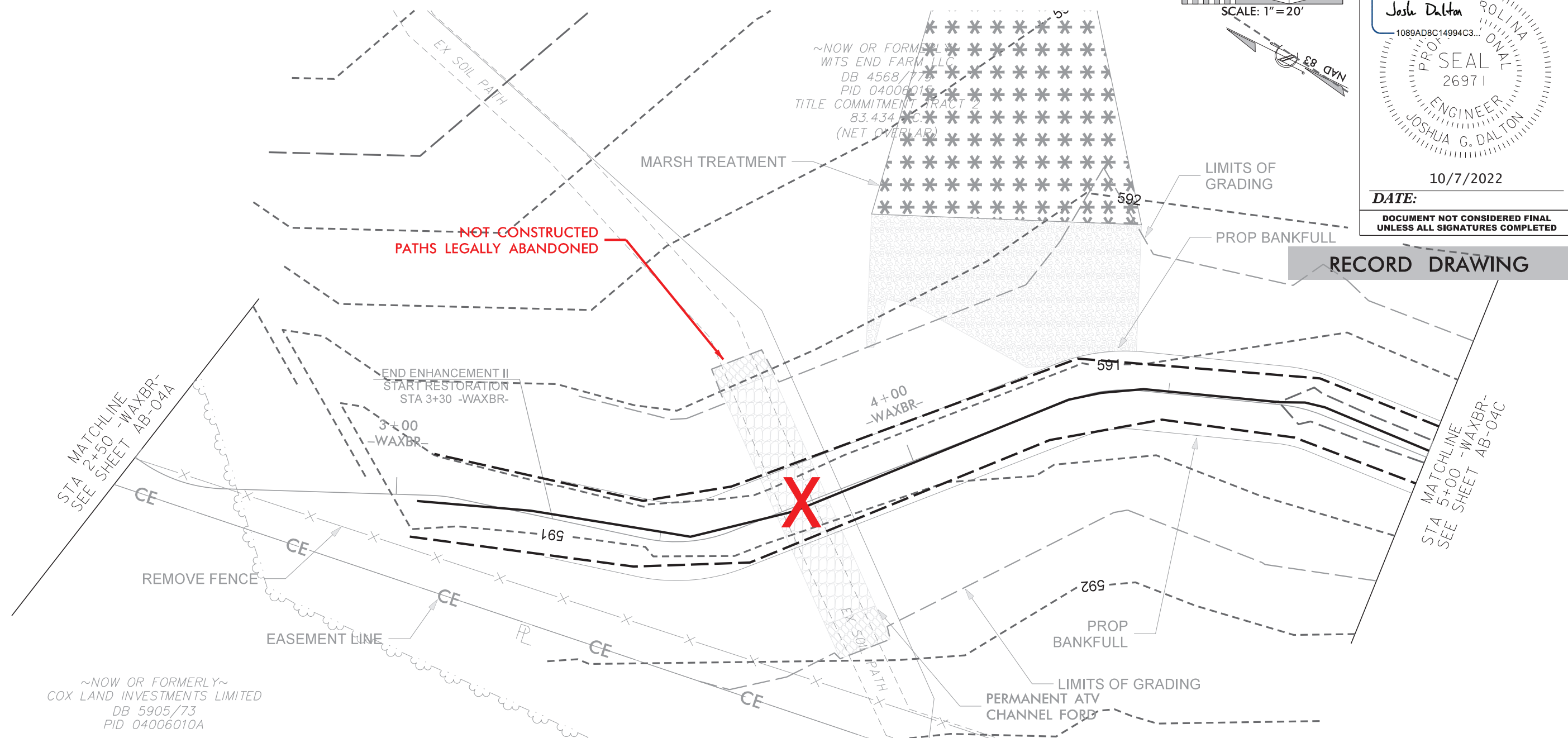
DATE: 10/7/2022

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 834 GUNNERS FARM ROAD
 SUITE 200
 WILSON, NC 27606
 TEL: (919) 855-2243
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Askom Environmental, Inc.

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WITS END
 UNION COUNTY, NC

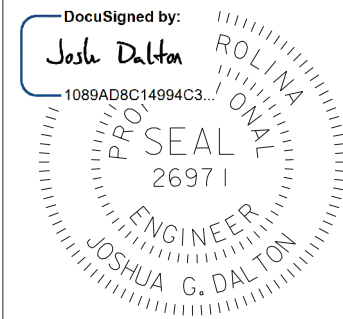
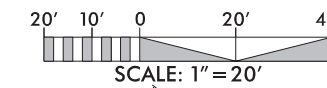
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-04B
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO.
AB-04B

10/6/2022
Wits_End_Psh_AB-04B.dgn

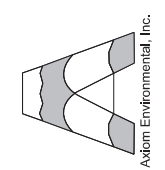
-WAXBR- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	428,097.82	1,566,515.51	589.76	589.36



DATE: 10/7/2022

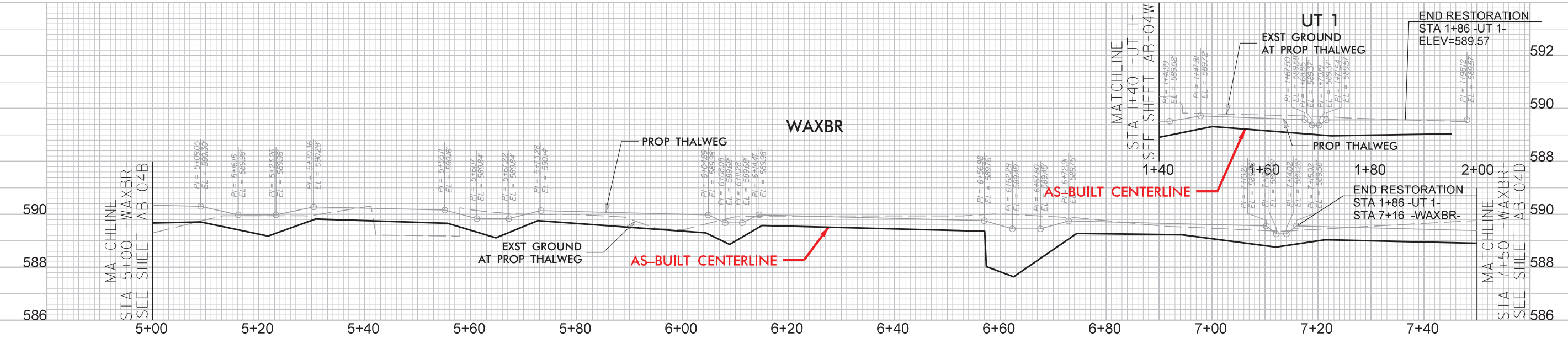
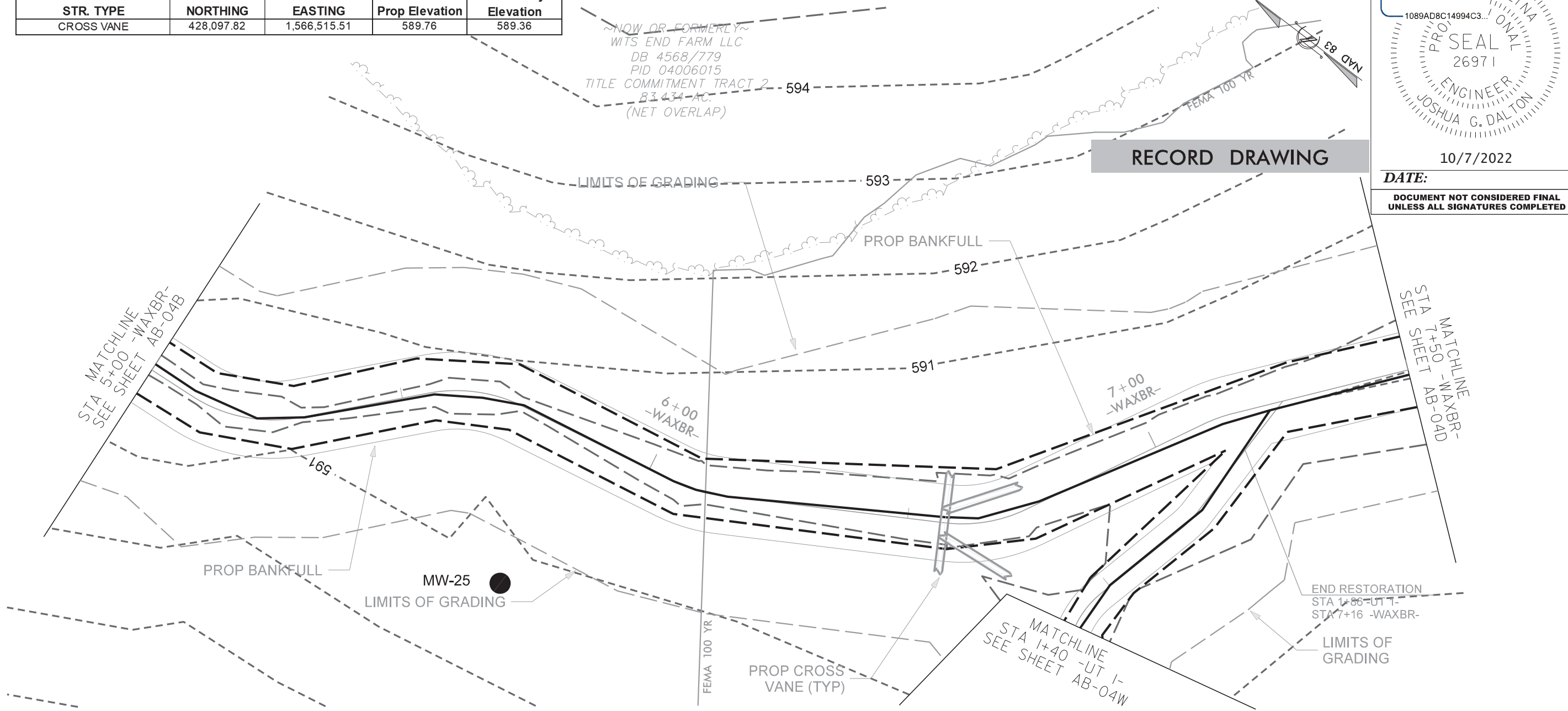
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 840 GILES FARM ROAD
 SUITE 200
 WAXHAM, NORTH CAROLINA 27806
 TEL (919) 855-2243
 ENG FIRM LICENSE NO. C-980



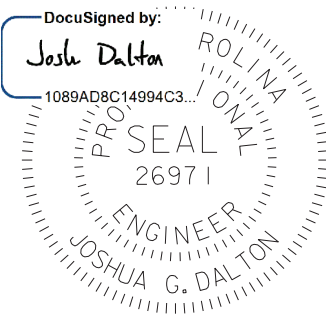
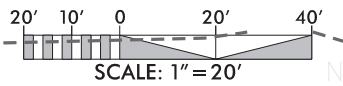
WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-04C
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:
 SHEET NO. **AB-04C**



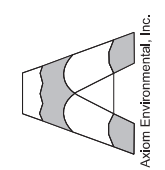
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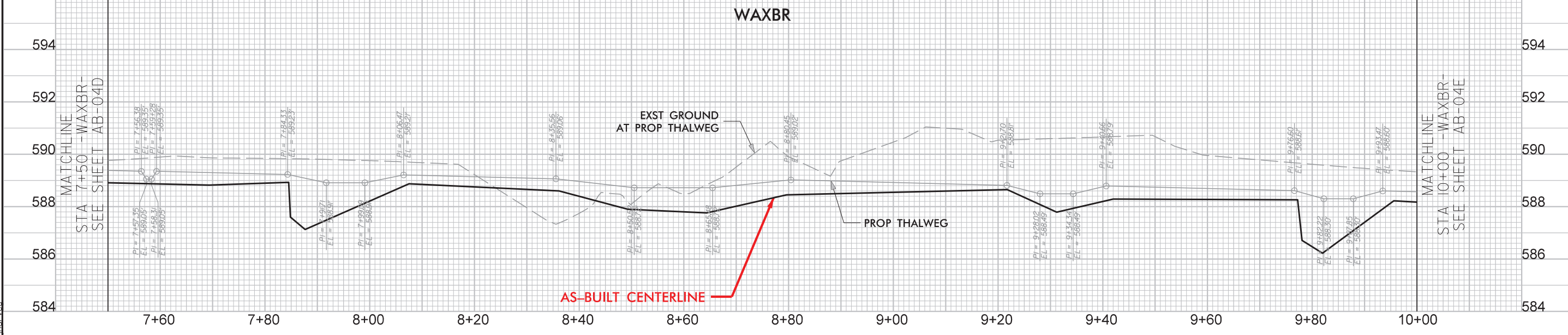
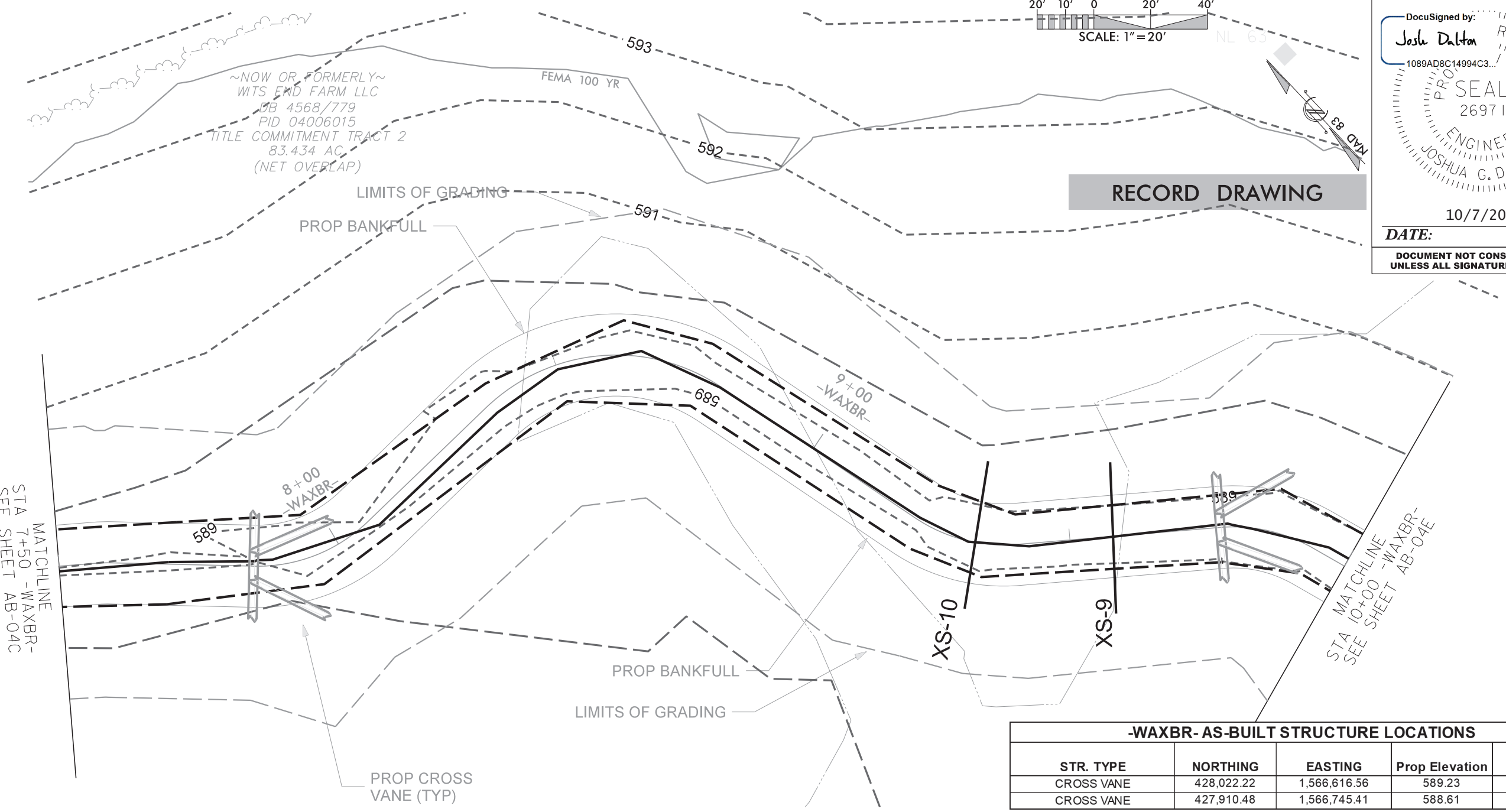
SUNGATE DESIGN GROUP, P.A.
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 SUITE 1000 CARY, NORTH CAROLINA 27506
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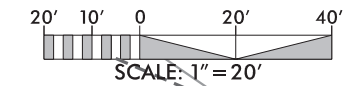
WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-04D
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:
 SHEET NO. **AB-04D**



10/6/2022
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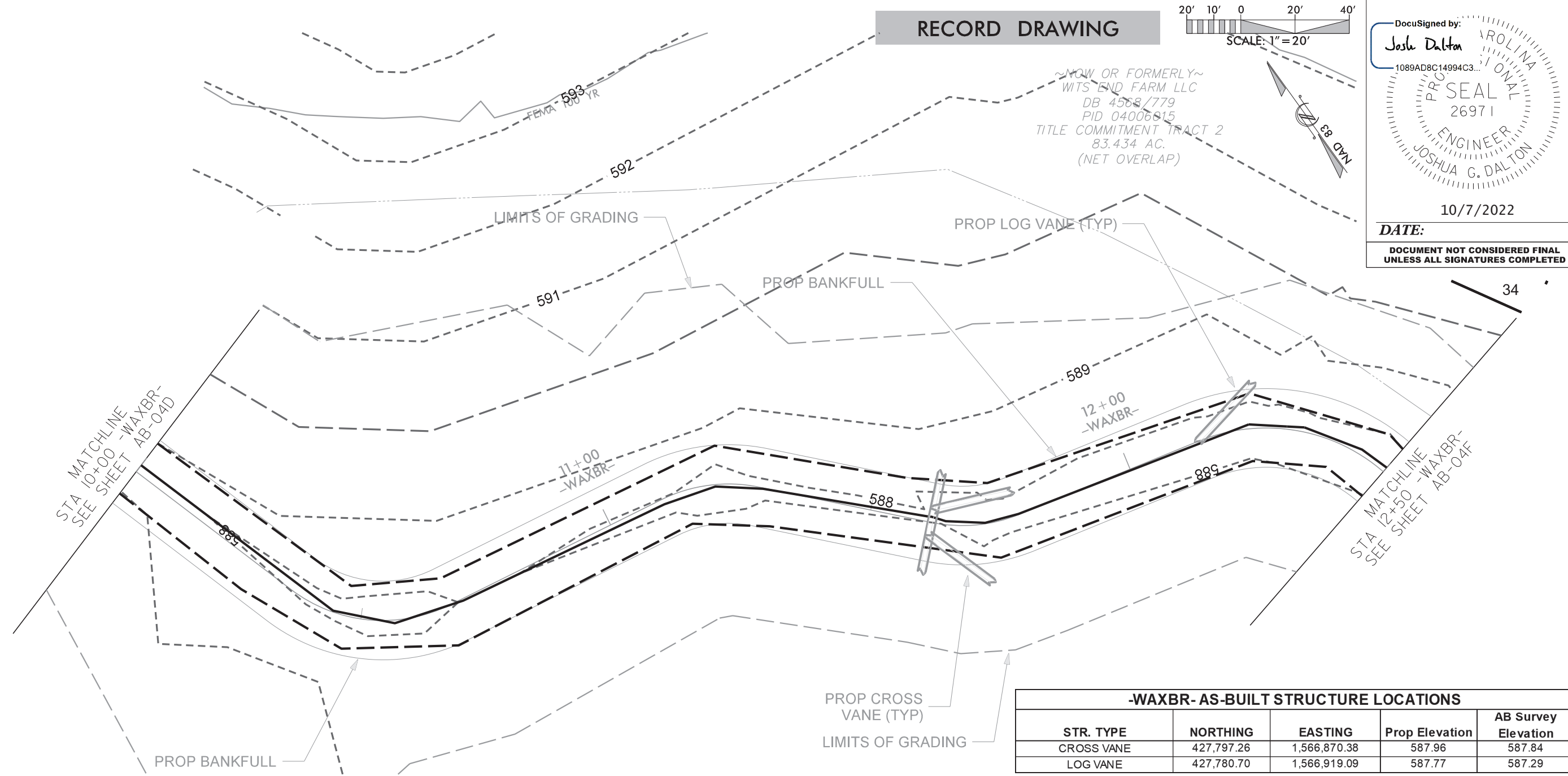
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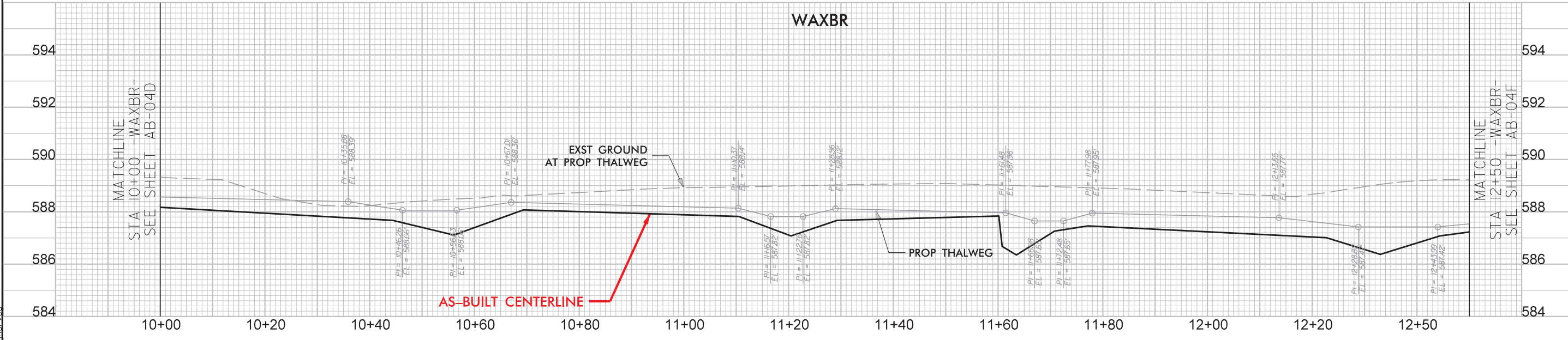
DocuSigned by:
Josh Dalton
 1089AD8C14994C3...
 PROFESSIONAL ENGINEER
 26971
 JOSHUA G. DALTON
 DATE: 10/7/2022
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SUNGATE DESIGN GROUP, P.A.
 830 W. GREENWOOD ROAD
 SUITE 2000
 WILMINGTON, NC 28403
 TEL: (919) 855-2243
 FAX: (919) 855-2244
 ENG. FIRM LICENSE NO. C-980

Axam Environmental, Inc.



-WAXBR- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	427,797.26	1,566,870.38	587.96	587.84
LOG VANE	427,780.70	1,566,919.09	587.77	587.29

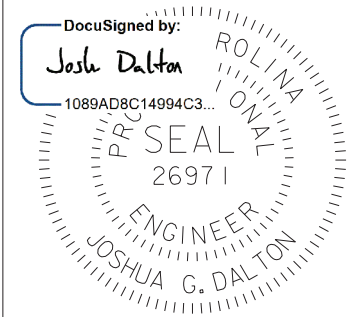
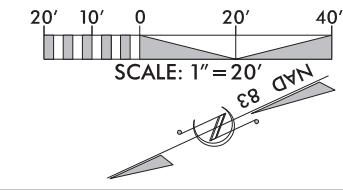


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PROJECT # : 1221-20024
 DRAWING NAME: WITS END PSH AB-04E
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO. **AB-04E**

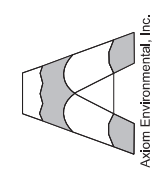
10/6/2022
 Wits_End_Psh_AB-04E.dgn
 jrd



DATE: 10/7/2022

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SUNGATE DESIGN GROUP, P.A.
934 GILES FARM ROAD
SUNGATE, NC 27886
TEL: (919) 856-2243
ENG. FIRM LICENSE NO. C-980

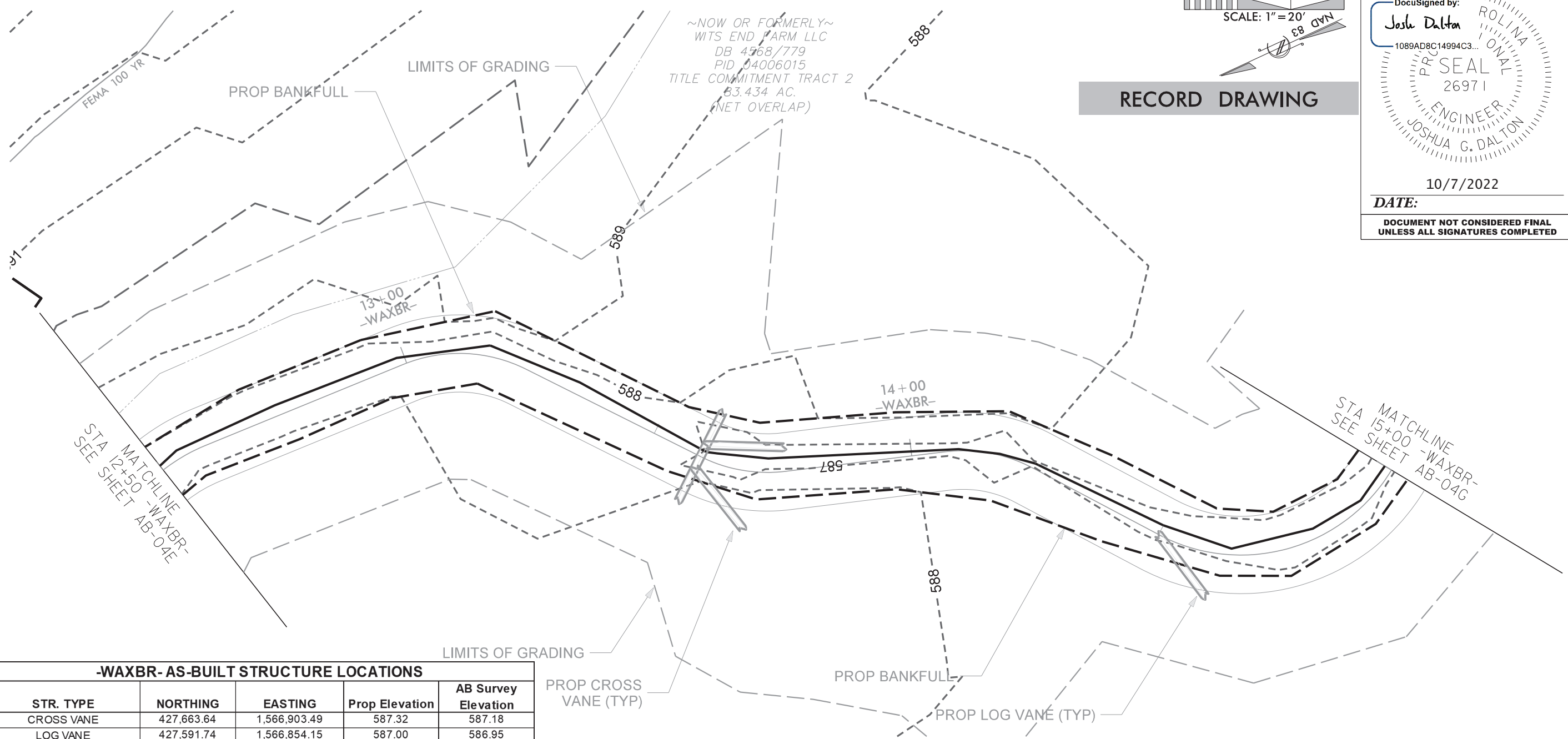


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WITS END
UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
DRAWING NAME: WITS END PSH AB-04F
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

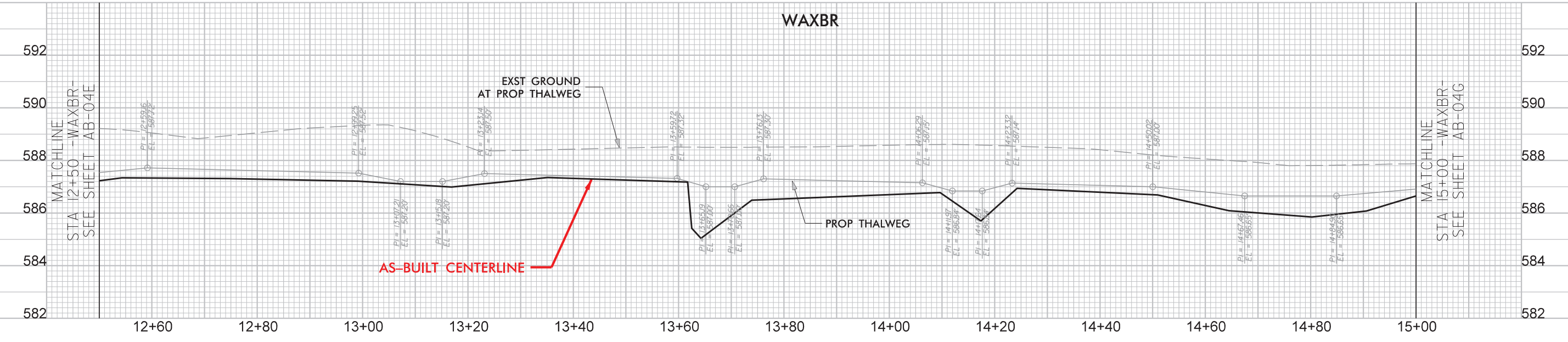
SHEET NO.
AB-04F



~NOW OR FORMERLY~
WITS END FARM LLC
DB 4568/779
PID 04006015
TITLE COMMITMENT TRACT 2
83.434 AC.
(NET OVERLAP)

-WAXBR- AS-BUILT STRUCTURE LOCATIONS

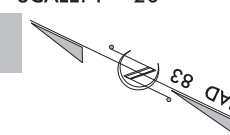
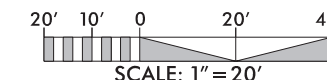
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	427,663.64	1,566,903.49	587.32	587.18
LOG VANE	427,591.74	1,566,854.15	587.00	586.95



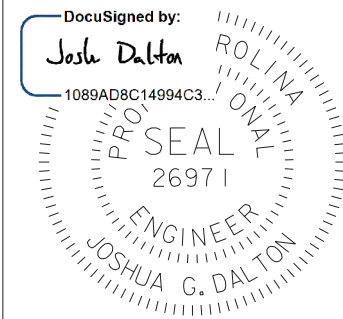
10/6/2022
Wits_End_Psh_AB-04F.dgn
jrh

-WAXBR- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	427,516.35	1,566,870.82	586.77	586.47
CROSS VANE	427,384.53	1,566,915.61	586.26	586.51

~NOW OR FORMERLY~
 WITS END FARM LLC
 DB 4568/779
 PID 04006015
 TITLE COMMITMENT TRACT 2
 83.434 AC.
 (NET OVERLAP)



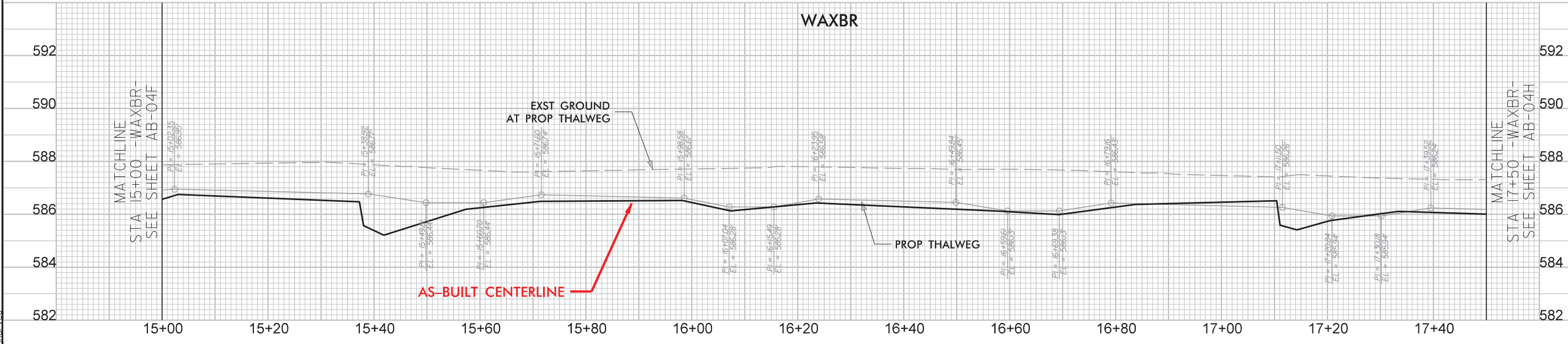
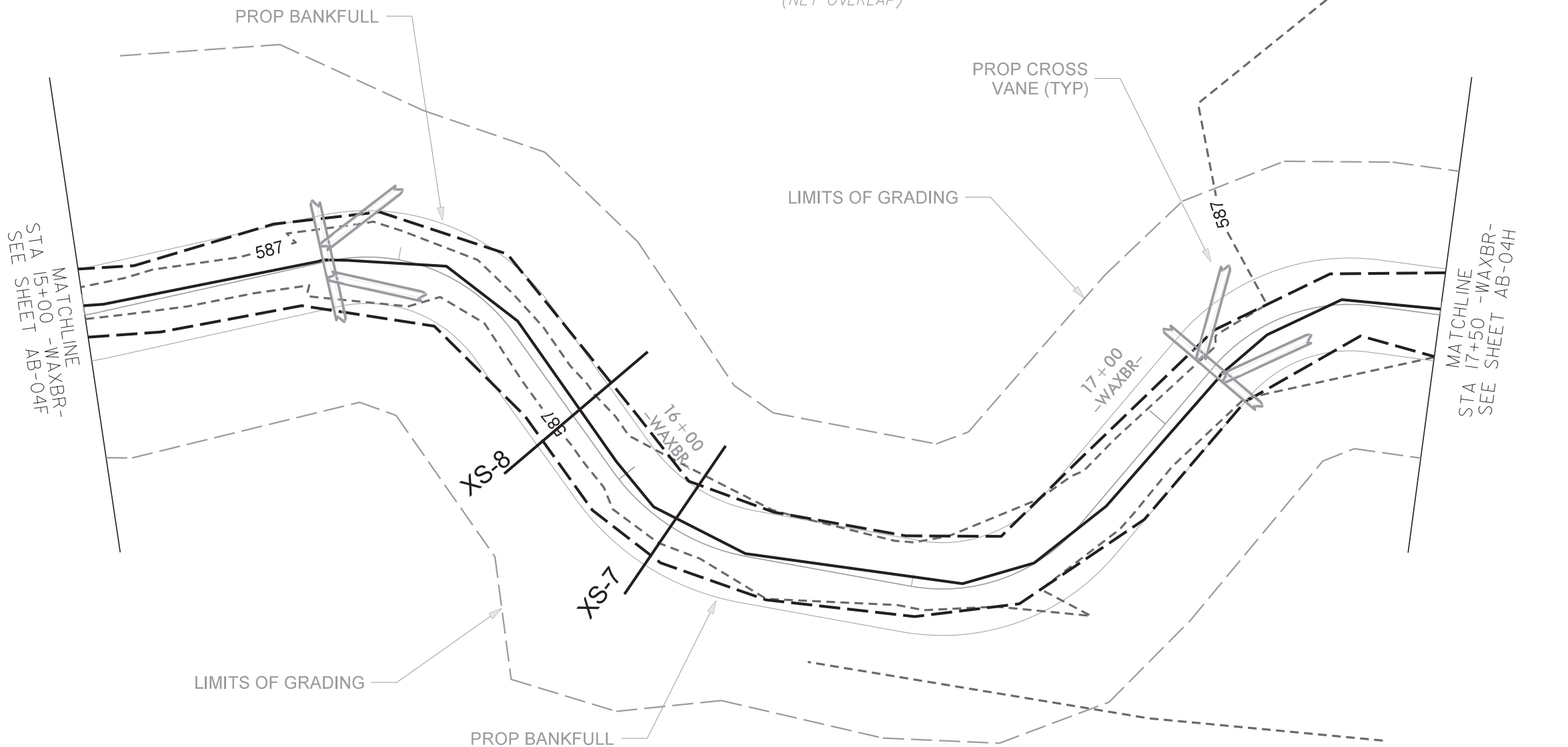
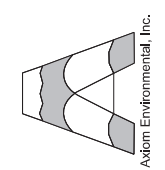
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 890 GILES FARM ROAD
 SUITE 200 CARY, NC 27513
 TEL: (919) 855-2243
 ENG FIRM LICENSE NO. C-980



10/6/2022
 Wits_End_Psh_AB-04G.dgn

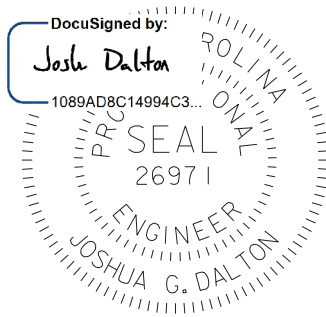
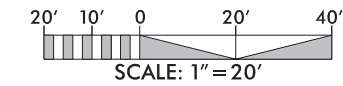
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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # : 1221-20024
 DRAWING NAME: WITS END PSH AB-04G
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:
 SHEET NO. **AB-04G**

-UT 2- AS-BUILT STRUCTURE LOCATIONS

STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	427,208.00	1,567,002.19	586.06	

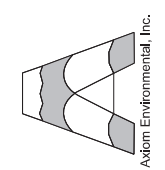


DATE: 10/7/2022

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8308 W. BRANFORD ROAD
RAVENEL, SOUTH CAROLINA 29686
TEL: (919) 855-2243
ENG. FIRM LICENSE NO. C-980

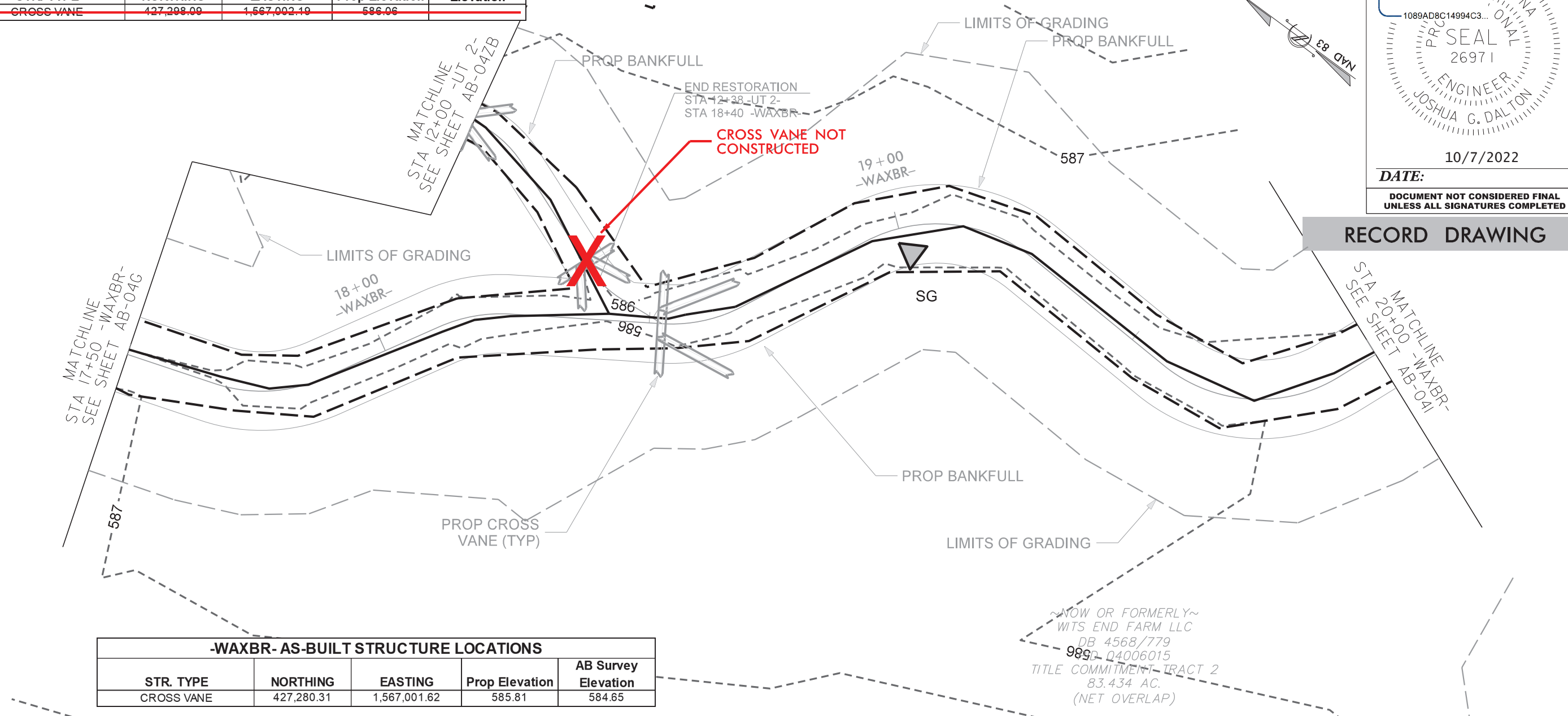


WITS END
UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # : 1221-20024
DRAWING NAME: WITS END PSH AB-04H
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

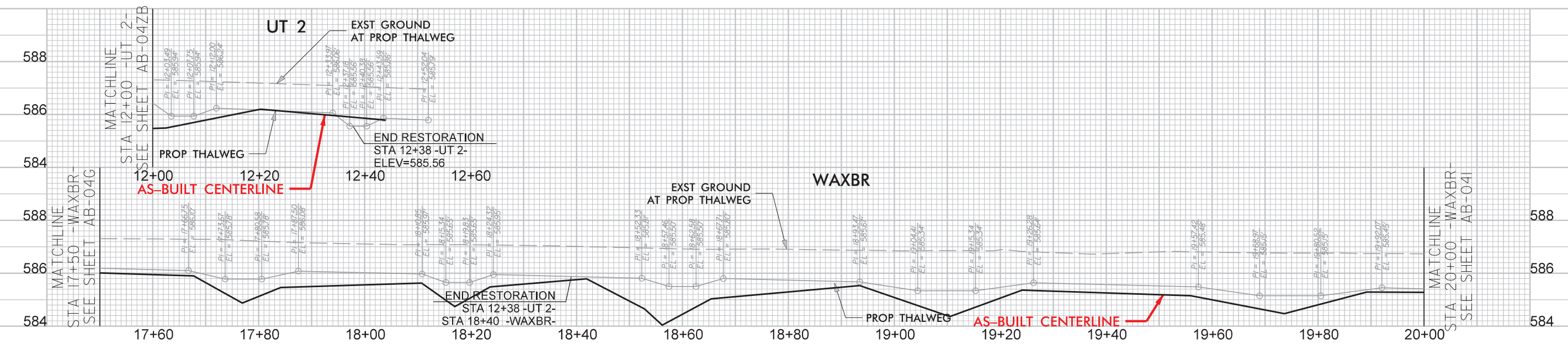
SHEET NO. **AB-04H**

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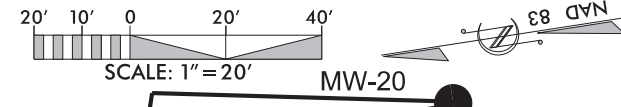


-WAXBR- AS-BUILT STRUCTURE LOCATIONS

STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	427,280.31	1,567,001.62	585.81	584.65



10/6/2022 Wits_End_Psh_AB-04H.dgn

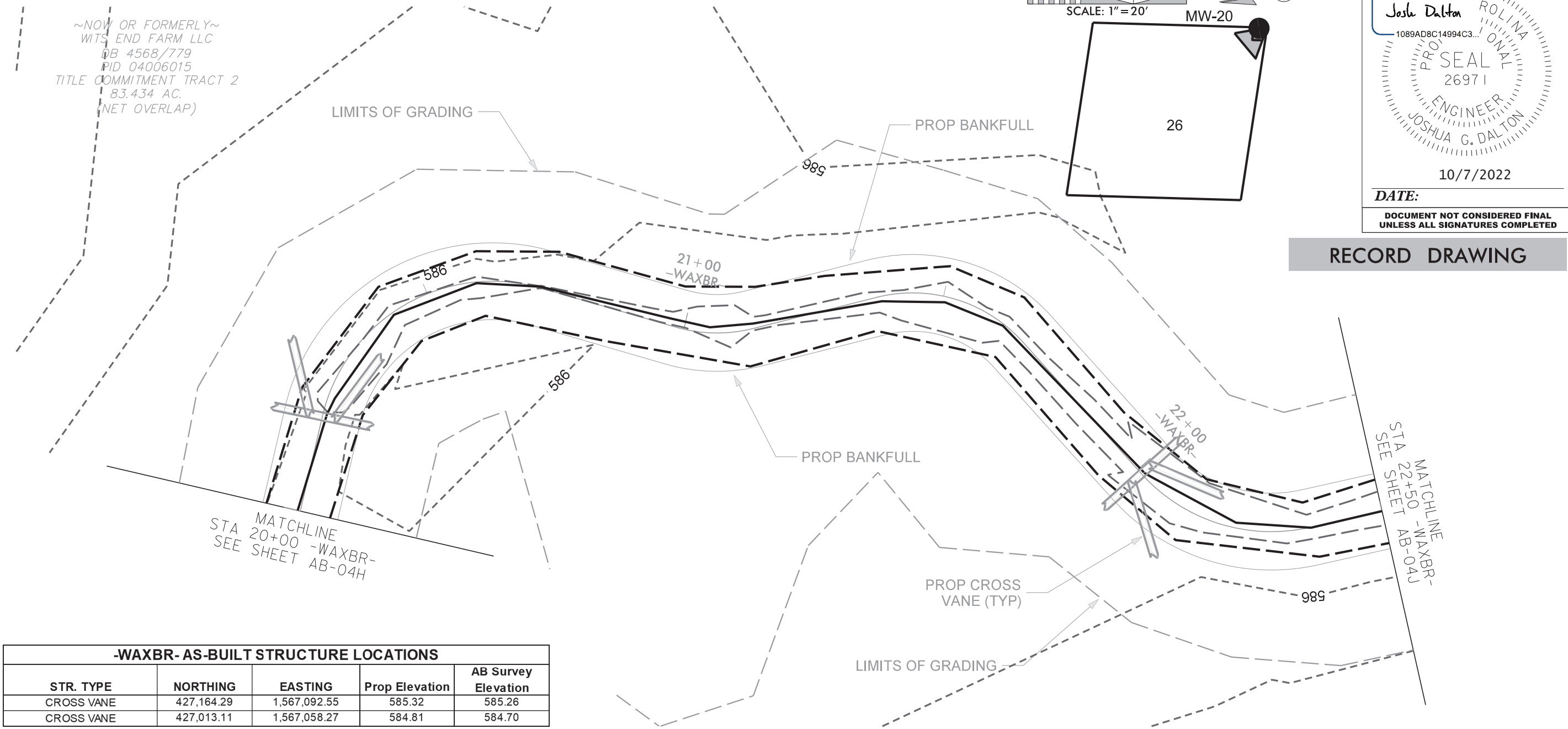


DocuSigned by:
Josh Dalton
 1089AD8C14994C3...
 PROFESSIONAL ENGINEER
 26971
 JOSHUA G. DALTON
 DATE: 10/7/2022
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 8408 S. FRANKLIN ROAD
 SUITE 200
 CHARLOTTE, NC 27866
 TEL: (919) 855-2243
 ENG. FIRM LICENSE NO. C-980

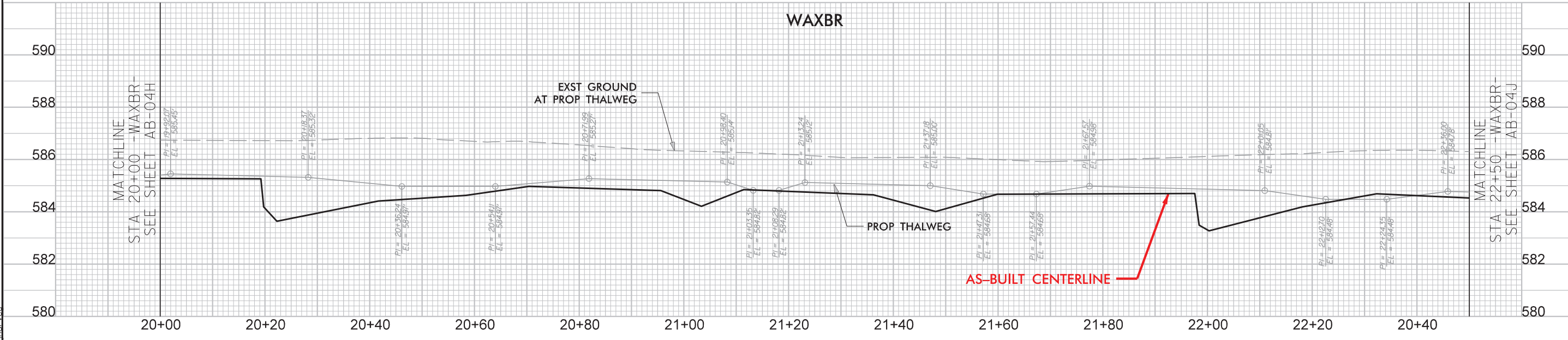
Aslam Environmental, Inc.

RECORD DRAWING



-WAXBR- AS-BUILT STRUCTURE LOCATIONS

STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	427,164.29	1,567,092.55	585.32	585.26
CROSS VANE	427,013.11	1,567,058.27	584.81	584.70



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PROJECT # : 1221-20024
 DRAWING NAME: WITS END PSH AB-04I
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

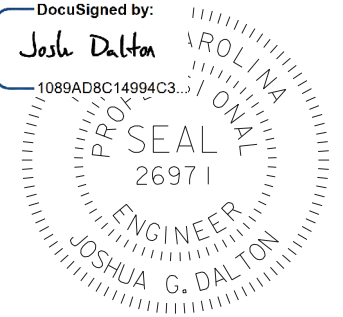
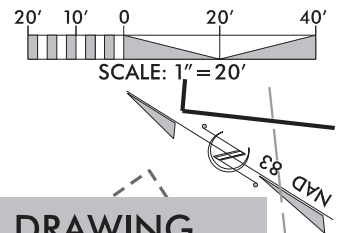
SHEET NO. **AB-04I**

WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURE

10/6/2022
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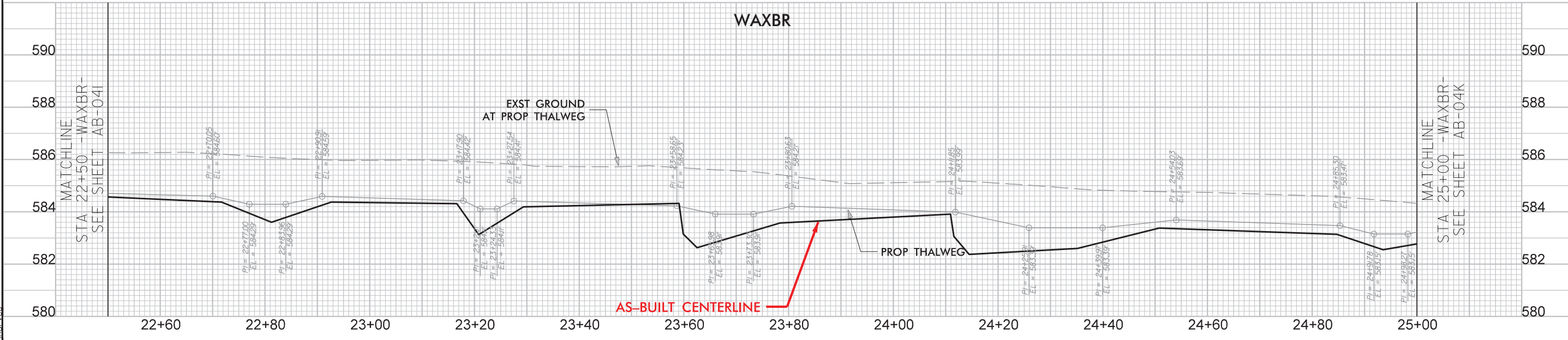
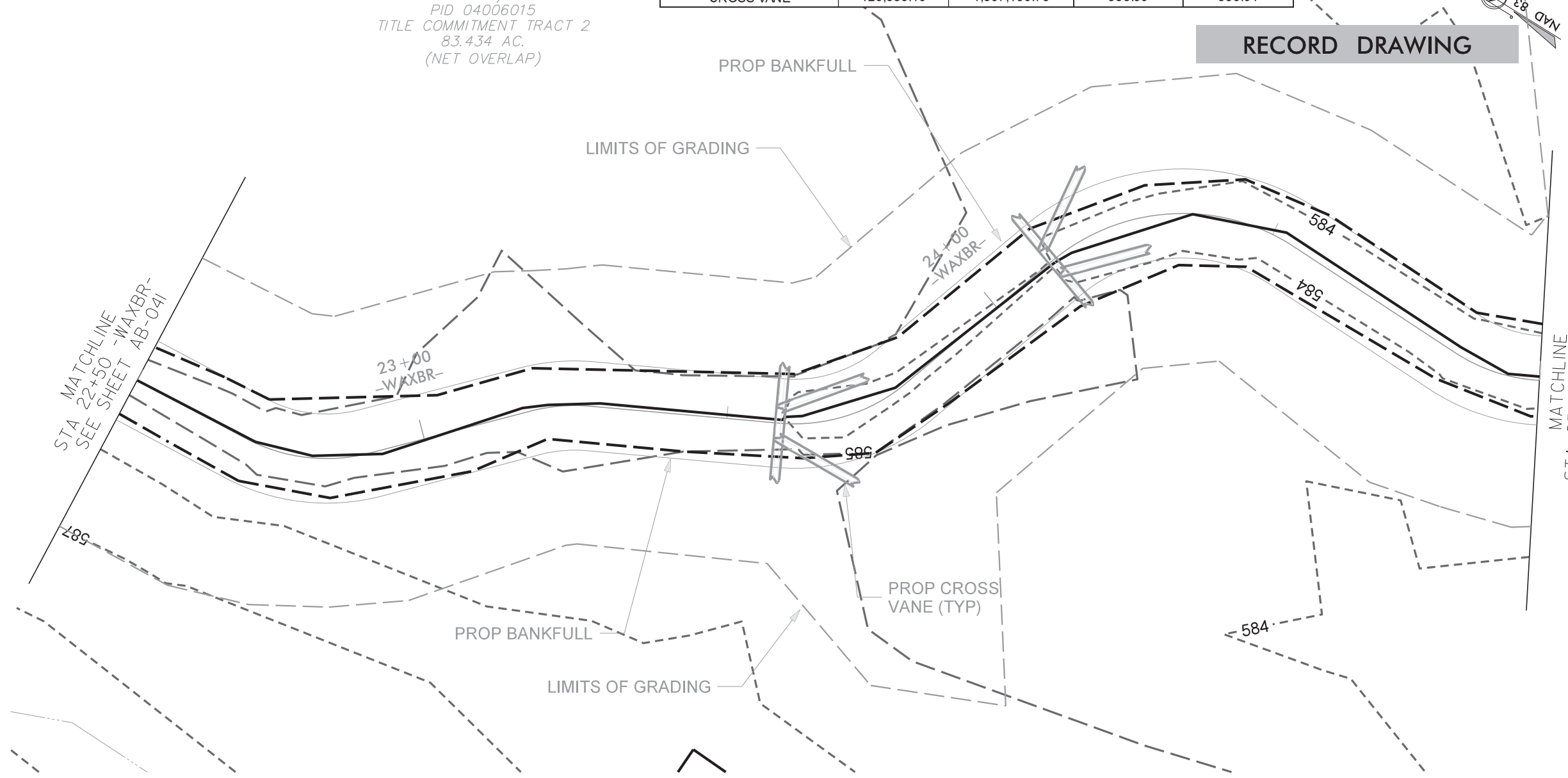
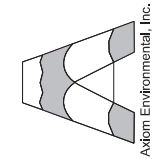
~NOW OR FORMERLY~
 WITS END FARM LLC
 DB 4568/779
 PID 04006015
 TITLE COMMITMENT TRACT 2
 83.434 AC.
 (NET OVERLAP)

-WAXBR- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,876.87	1,567,093.83	584.23	584.32
CROSS VANE	426,853.19	1,567,139.76	583.99	583.91



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 Josh Dalton
 1089AD8C14994C3...
DATE: 10/7/2022
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 890 W. GREENLEAF ROAD
 SUITE 200, CARY, NC 27513
 TEL: (919) 855-2243
 ENG. FIRM LICENSE NO. C-980



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 Wits_End_Psh_AB-04.dgn

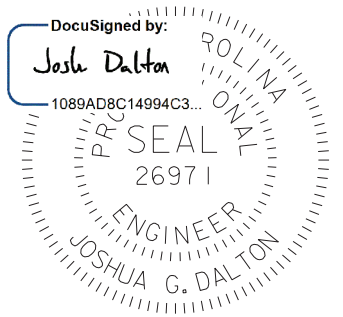
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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-04J
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:
 SHEET NO. **AB-04J**



RECORD DRAWING

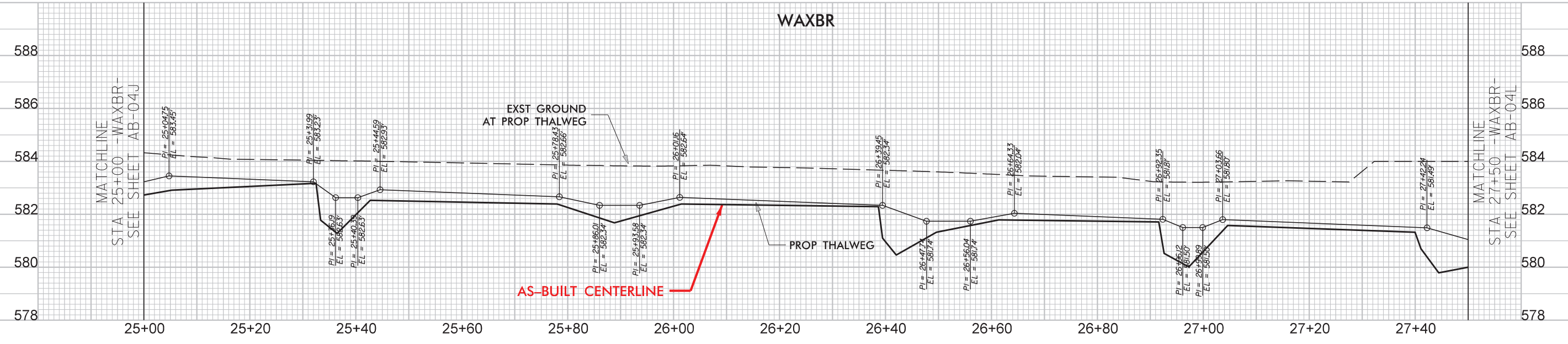
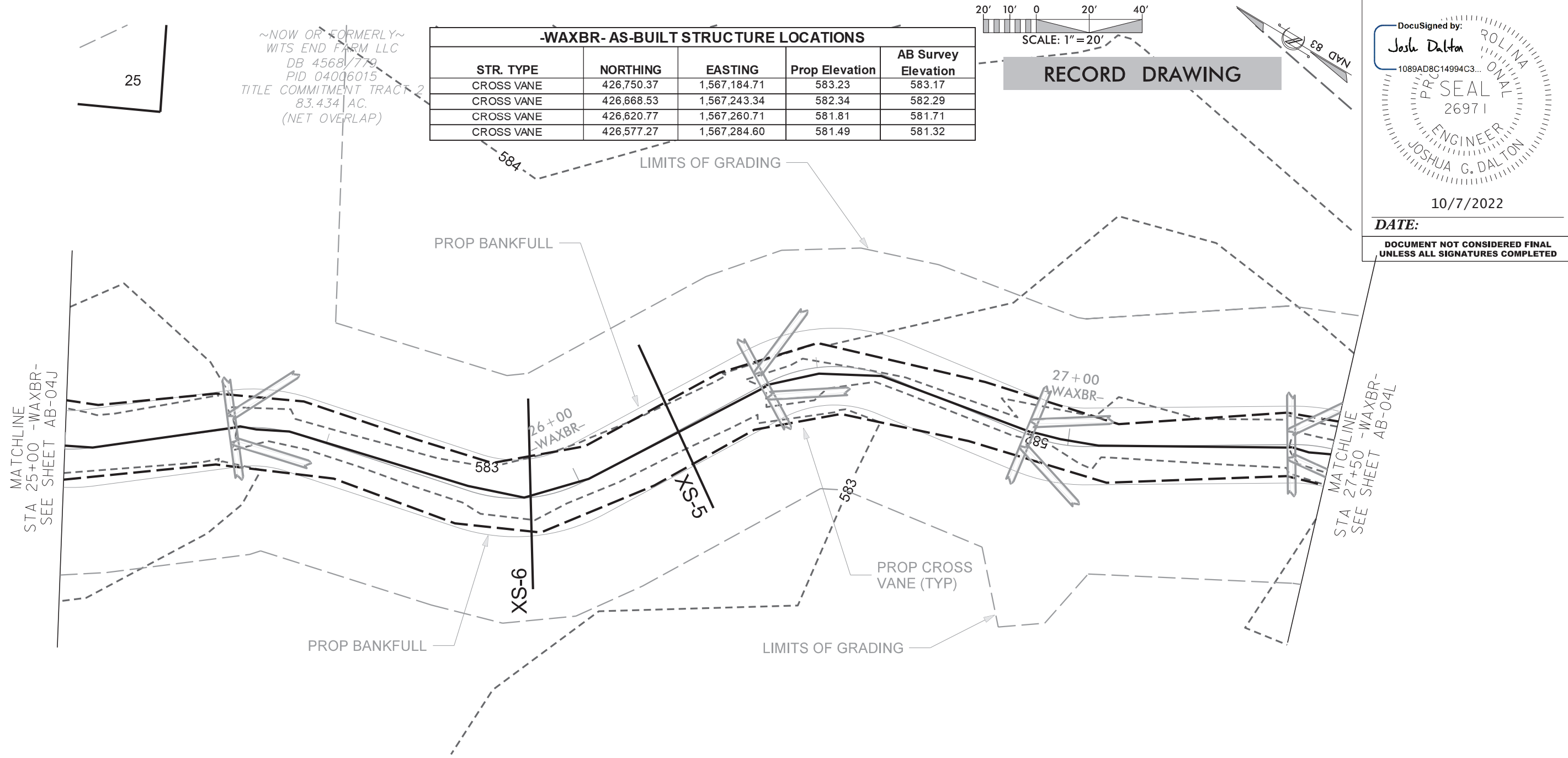


DATE: 10/7/2022

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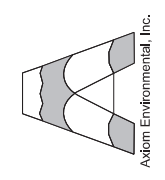
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STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,750.37	1,567,184.71	583.23	583.17
CROSS VANE	426,668.53	1,567,243.34	582.34	582.29
CROSS VANE	426,620.77	1,567,260.71	581.81	581.71
CROSS VANE	426,577.27	1,567,284.60	581.49	581.32

~NOW OR FORMERLY~
WITS END FARM LLC
DB 4568/779
PID 04006015
TITLE COMMITMENT TRACT 2
83.434 AC.
(NET OVERLAP)



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Wits_End_Psh_AB-04k.dgn

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890 W. GREENLEAF ROAD
RALEIGH, NC 27604
TEL: (919) 855-2243
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WITS END
UNION COUNTY, NC

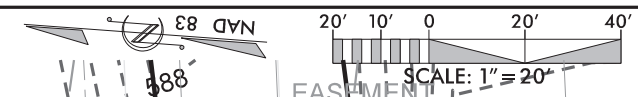
AS-BUILT STRUCTURES

PROJECT # : 1221-20024
DRAWING NAME: WITS END PSH AB-04K
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:
SHEET NO. **AB-04K**

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-WAXBR- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,514.23	1,567,272.98	580.91	580.73
CROSS VANE	426,414.64	1,567,288.41	580.09	579.87

RECORD DRAWING

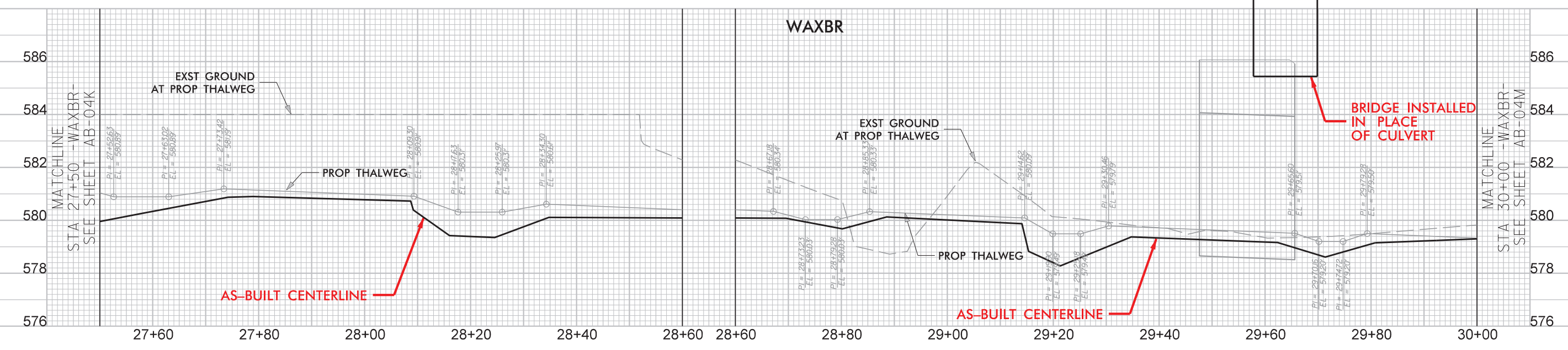
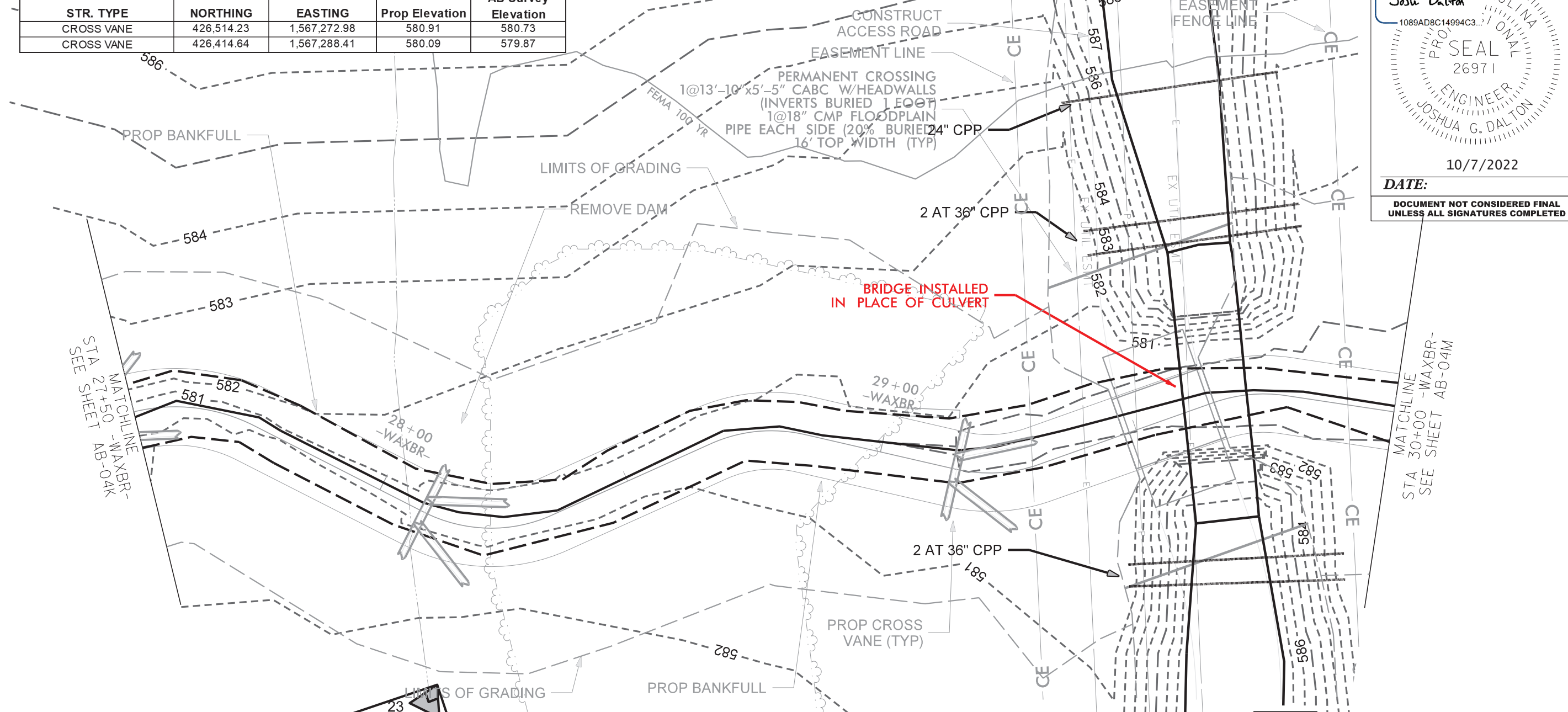


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Josh Dalton
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 PROFESSIONAL ENGINEER
 JOSHUA G. DALTON
 26971
 DATE: 10/7/2022

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 SUITE 200
 WAXHAM, NC 27086
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 ENG. FIRM LICENSE NO. C-980

Askom Environmental, Inc.



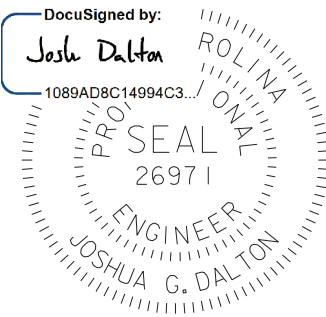
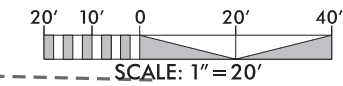
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 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-04L
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO.
AB-04L

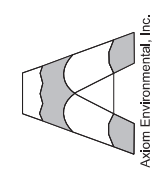
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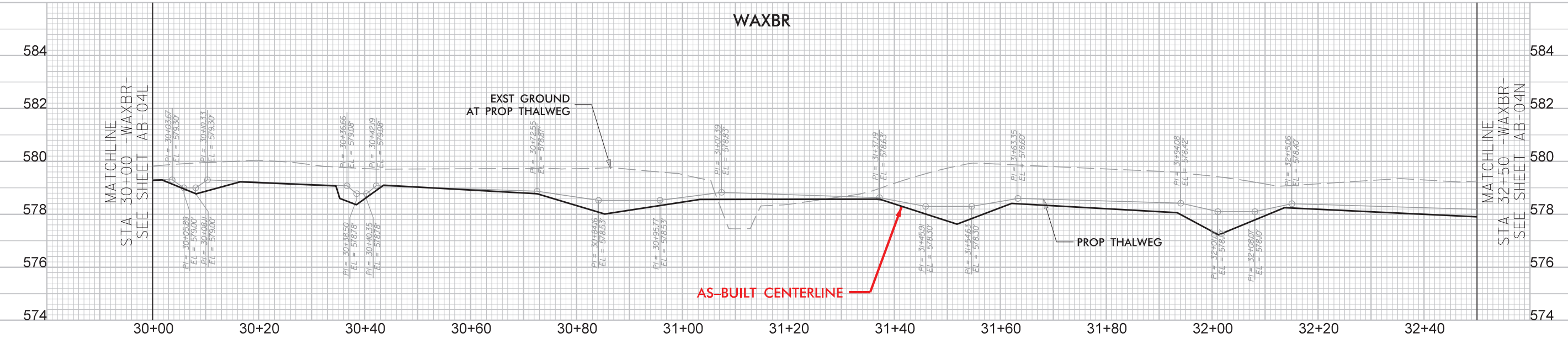
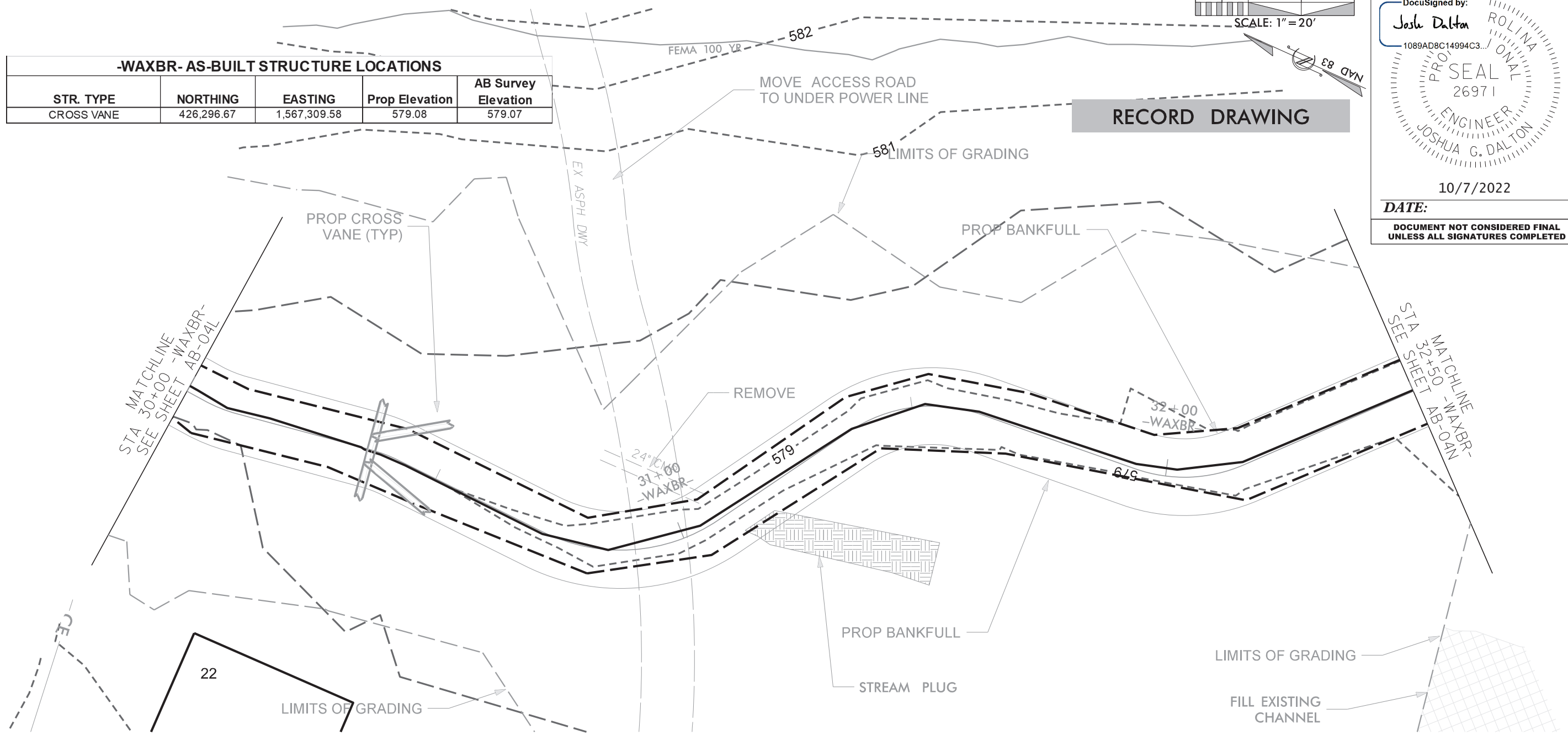
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UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
DRAWING NAME: WITS END PSH AB-04M
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

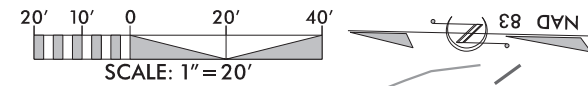
SHEET NO. **AB-04M**

-WAXBR- AS-BUILT STRUCTURE LOCATIONS

STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,296.67	1,567,309.58	579.08	579.07



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Wits_End_Psh_AB-04M.dgn



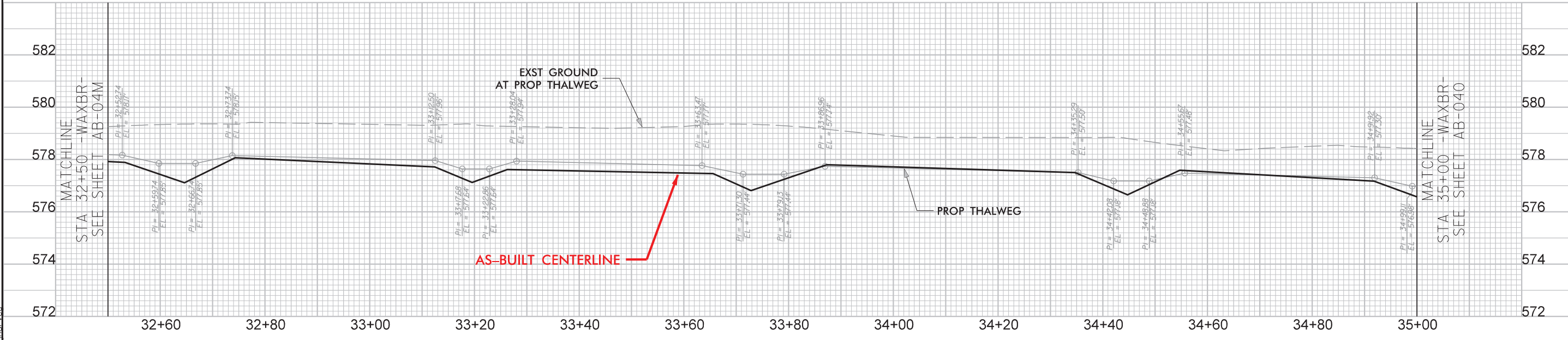
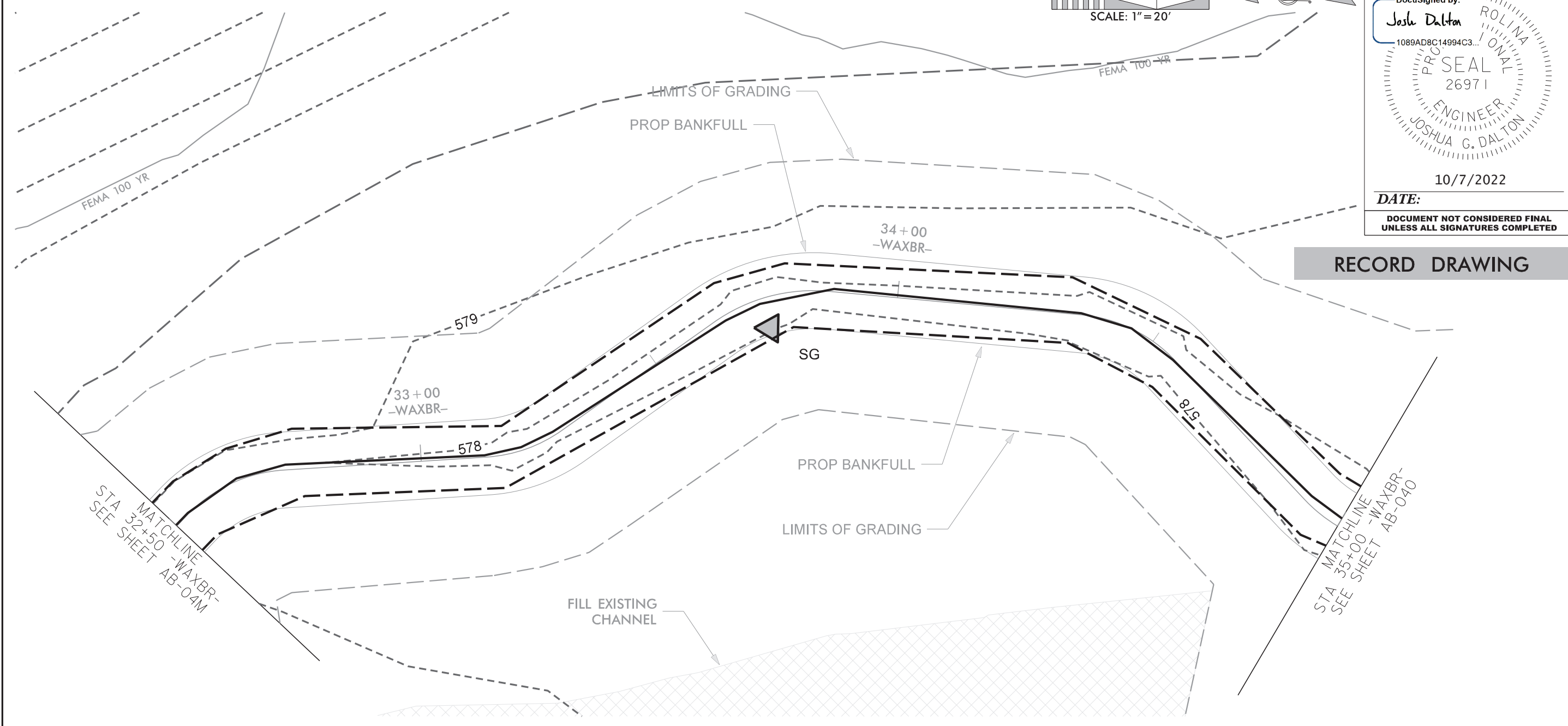
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ENGINEER
JOSHUA G. DALTON
 10/7/2022
DATE:
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 SUITE 200
 WAXHAM, NC 27086
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 ENG. FIRM LICENSE NO. C-890

Axiam Environmental, Inc.

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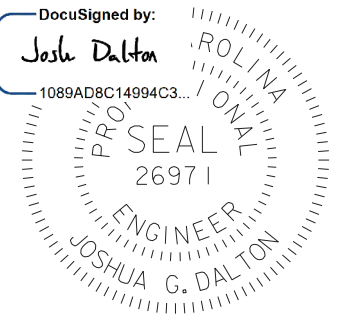
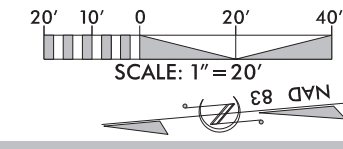


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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

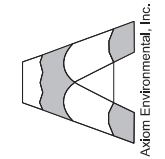
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DRAWING NAME:	WITS END PSH AB-04N
DATE:	2022
DRAWN BY:	JRH
REVIEWED BY:	JGD
REVISIONS:	
SHEET NO.	AB-04N

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 SUITE 2000 CARY, NORTH CAROLINA 27506
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 FAX: (919) 855-2243
 ENG. FIRM LICENSE NO. C-980

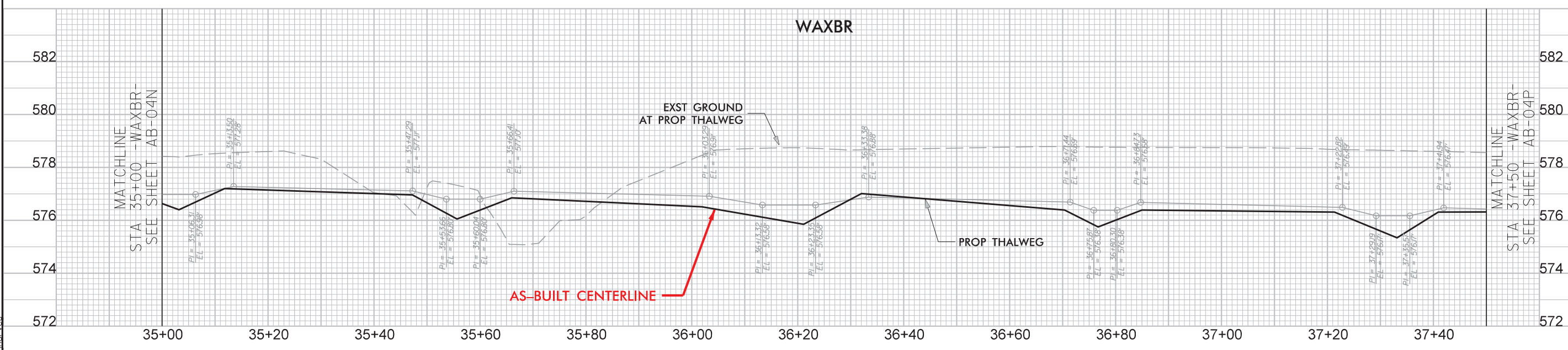
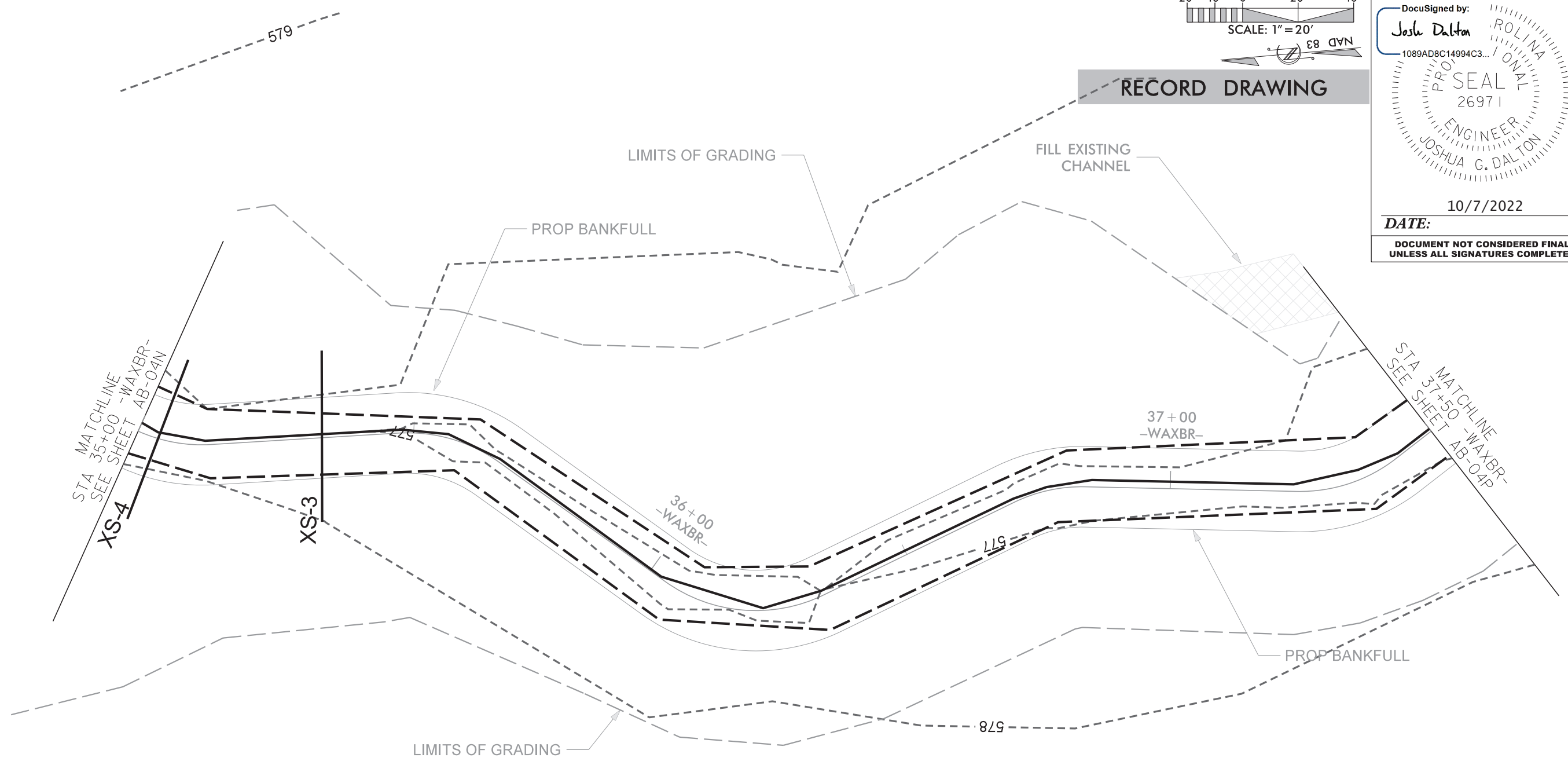


PROJECT # :
 1221-20024
 DRAWING NAME:
 WITS END PSH AB-040
 DATE:
 2022
 DRAWN BY:
 JRH
 REVIEWED BY:
 JGD
 REVISIONS:

WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

SHEET NO.
AB-040

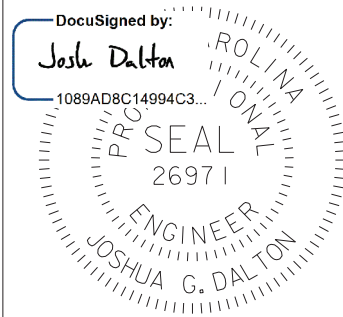
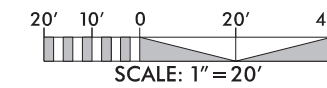
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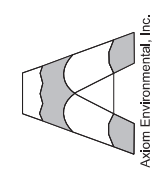
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-WAXBR- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	425,269.54	1,567,651.67	574.17	573.85
CROSS VANE	425,162.87	1,567,688.08	573.43	573.00

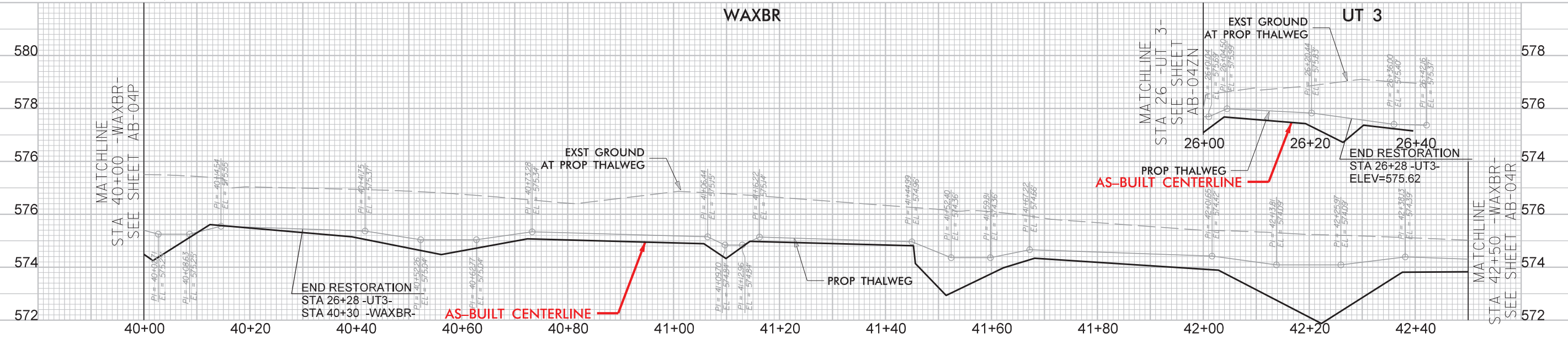
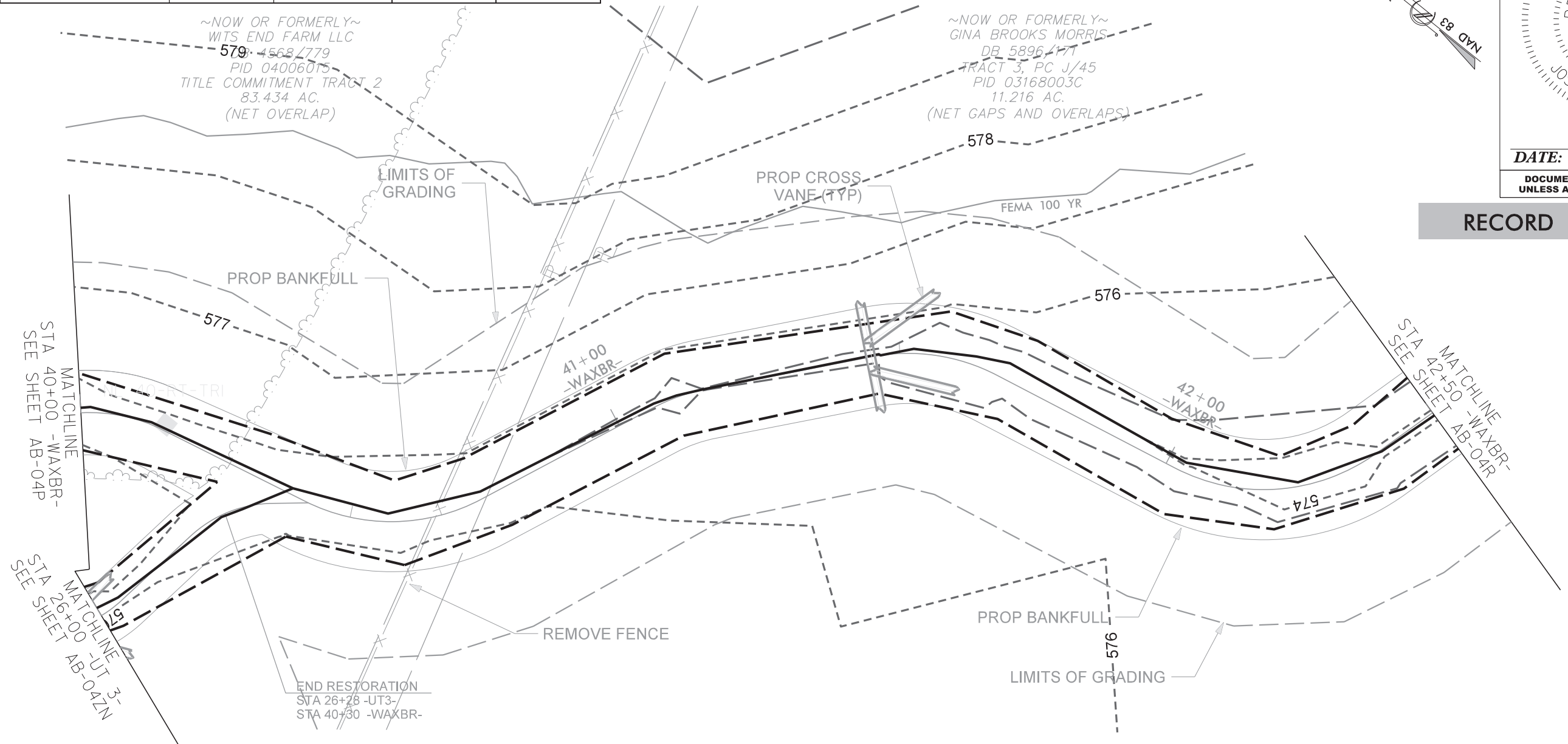


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 8908 WILKINSON ROAD
 SUITE 200 CHARLOTTE, NC 27866
 TEL: (919) 856-2243
 ENG. FIRM LICENSE NO. C-980



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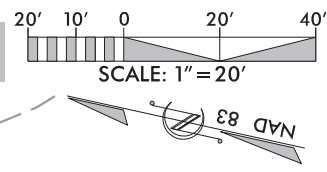
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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-040
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:
 SHEET NO. **AB-04Q**

10/6/2022 Wits_End_Psh_AB-040.dgn

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 1089AD8C14994C3...
 PROFESSIONAL SEAL
 26971
 ENGINEER
 JOSHUA G. DALTON

DATE: 10/7/2022

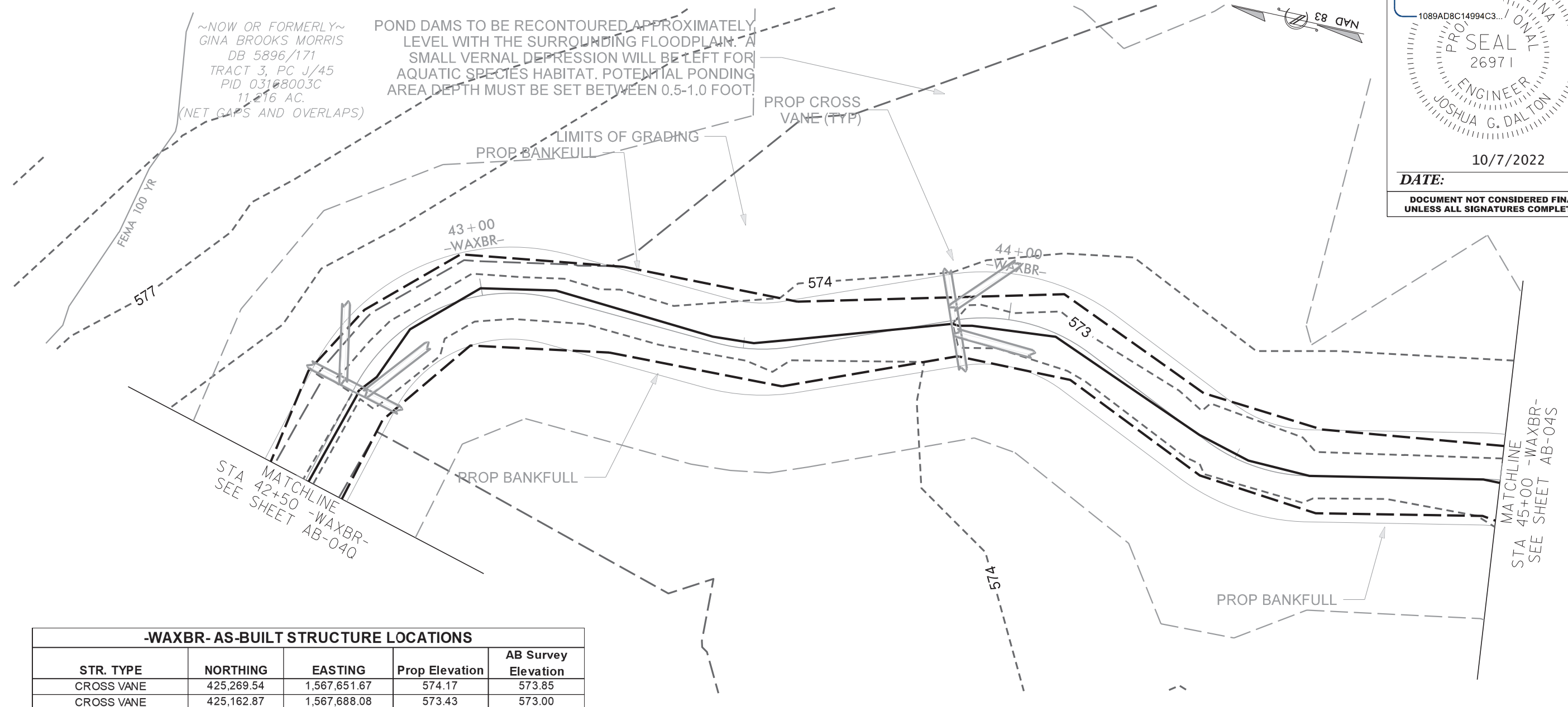
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 CARY, NC 27513
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 FAX: (919) 855-2244
 ENG. FIRM LICENSE NO. C-980

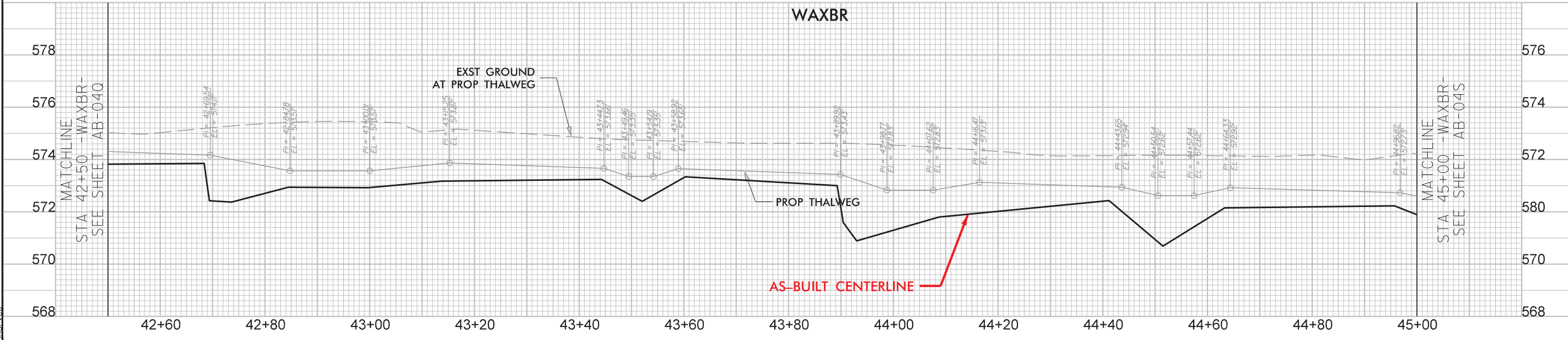
Axiam Environmental, Inc.

~NOW OR FORMERLY~
 GINA BROOKS MORRIS
 DB 5896/171
 TRACT 3, PC J/45
 PID 03188003C
 11.216 AC.
 (NET GAPS AND OVERLAPS)

POND DAMS TO BE RECONTOURED APPROXIMATELY
 LEVEL WITH THE SURROUNDING FLOODPLAIN. A
 SMALL VERNAL DEPRESSION WILL BE LEFT FOR
 AQUATIC SPECIES HABITAT. POTENTIAL PONDING
 AREA DEPTH MUST BE SET BETWEEN 0.5-1.0 FOOT!



-WAXBR- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	425,269.54	1,567,651.67	574.17	573.85
CROSS VANE	425,162.87	1,567,688.08	573.43	573.00



10/6/2022
 Wits_End_psh_AB-04R.dgn

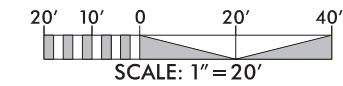
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WITS END
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AS-BUILT STRUCTURES

PROJECT # : 1221-20024
 DRAWING NAME: WITS END PSH AB-04R
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO.
AB-04R



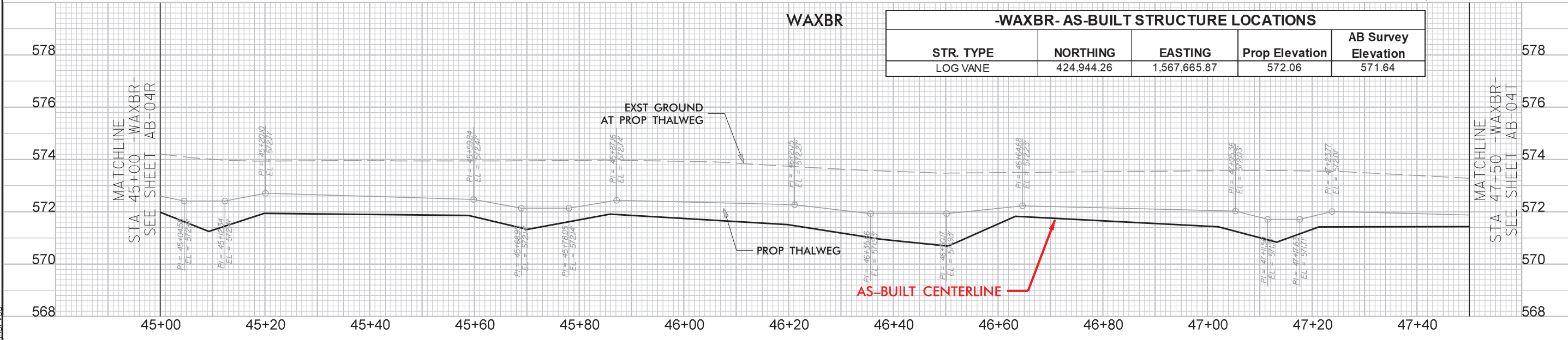
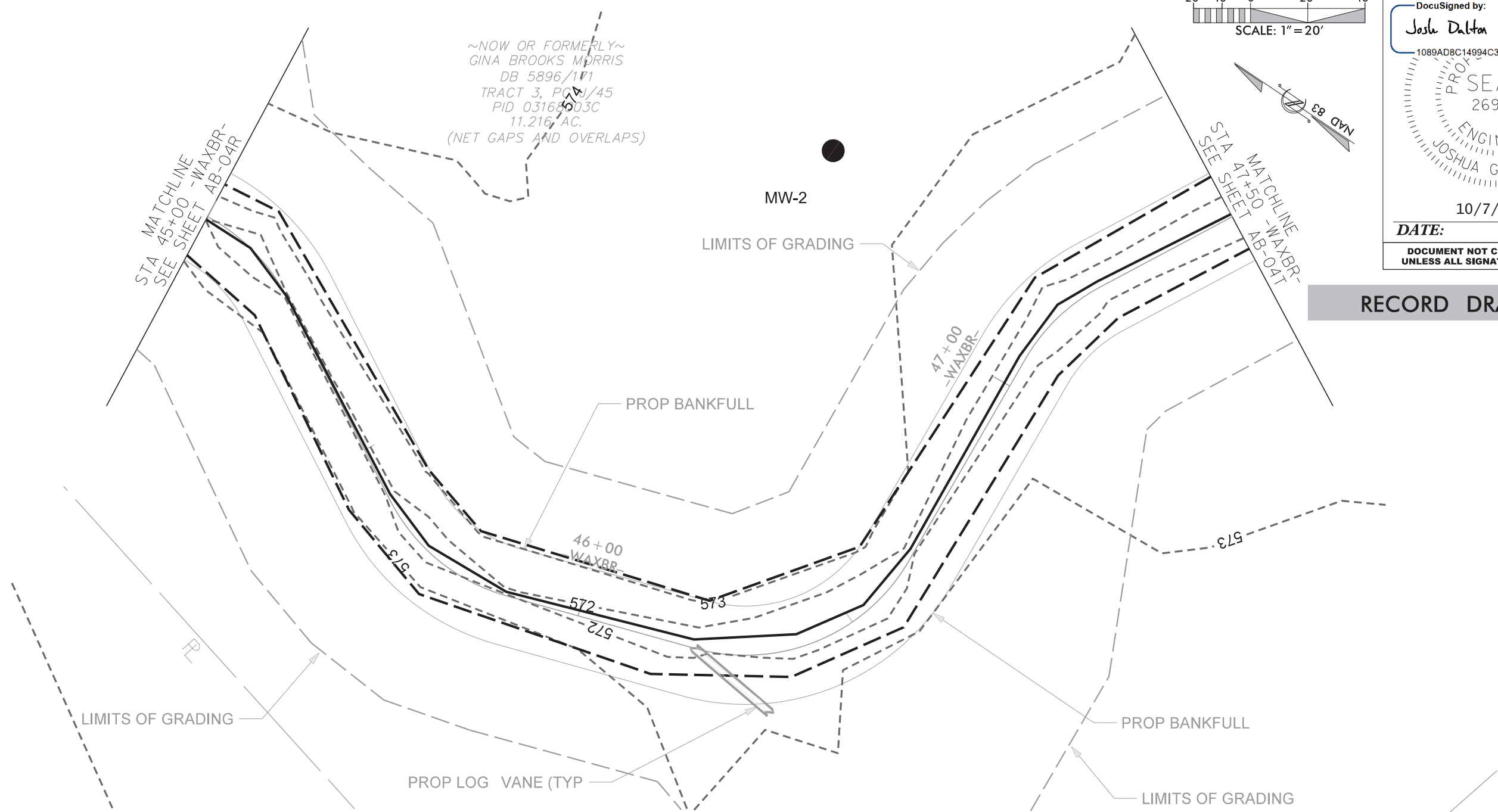
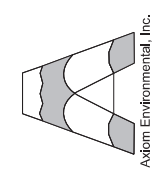
DocuSigned by:
Josh Dalton
 1089AD8C14994C3...
 PROFESSIONAL SEAL
 26971
 ENGINEER
 JOSHUA G. DALTON

DATE: 10/7/2022

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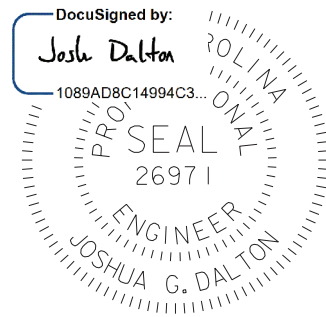
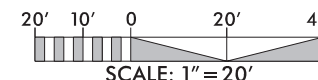
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 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-04S
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO.
AB-04S

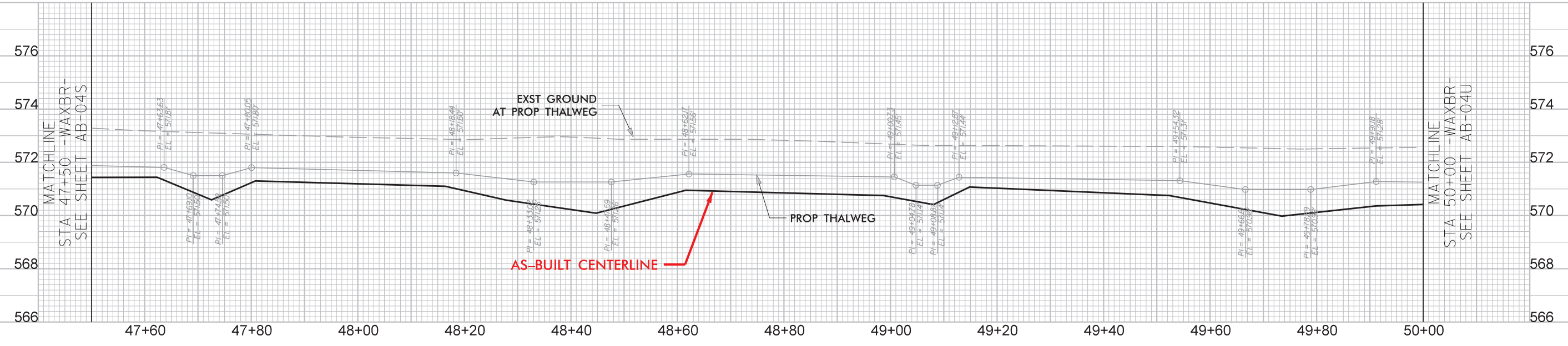
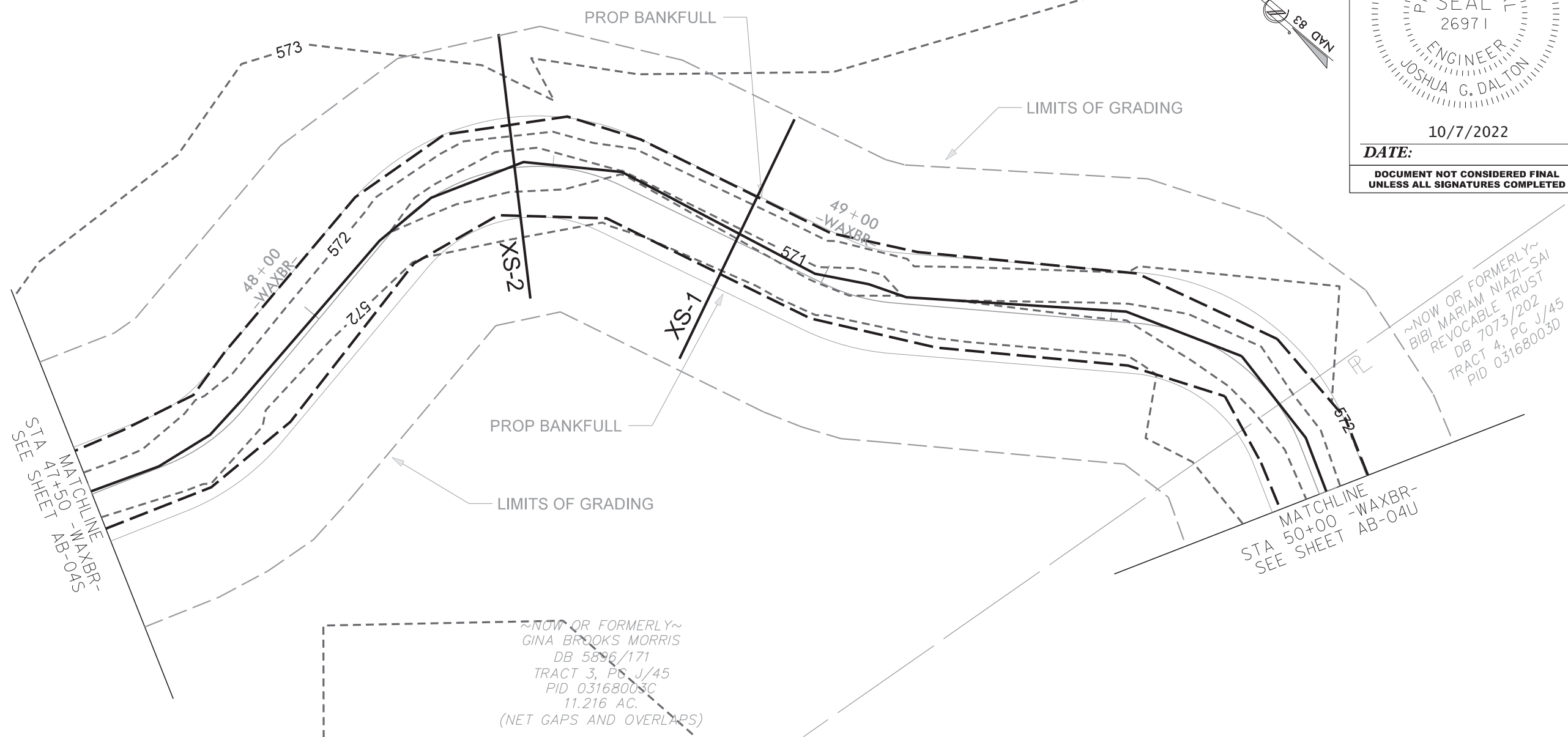
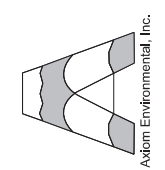
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 FAX: (919) 855-2244
 ENG. FIRM LICENSE NO. C-980



10/6/2022
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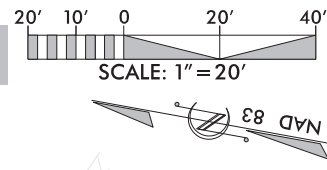
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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # : 1221-20024
 DRAWING NAME: WITS END PSH AB-04T
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO.
AB-04T

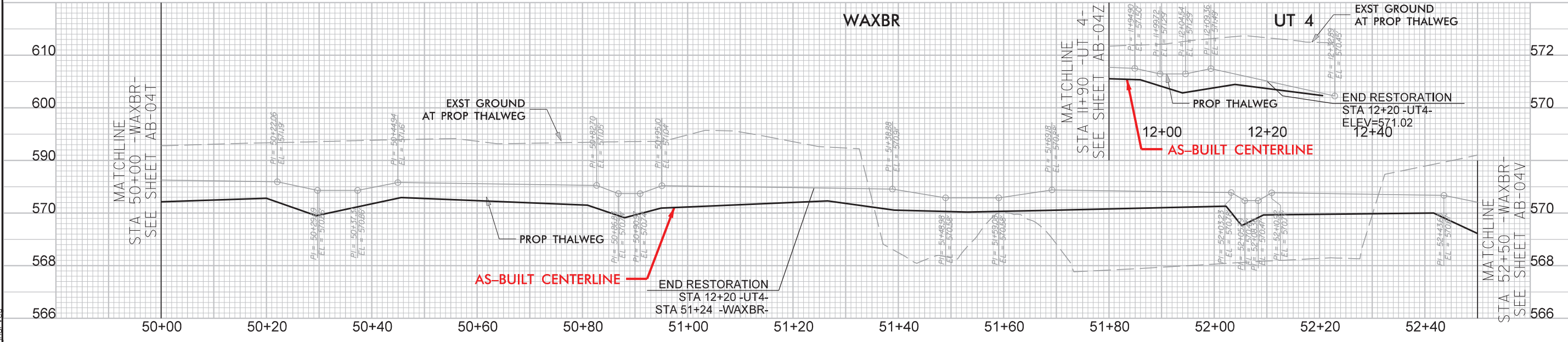
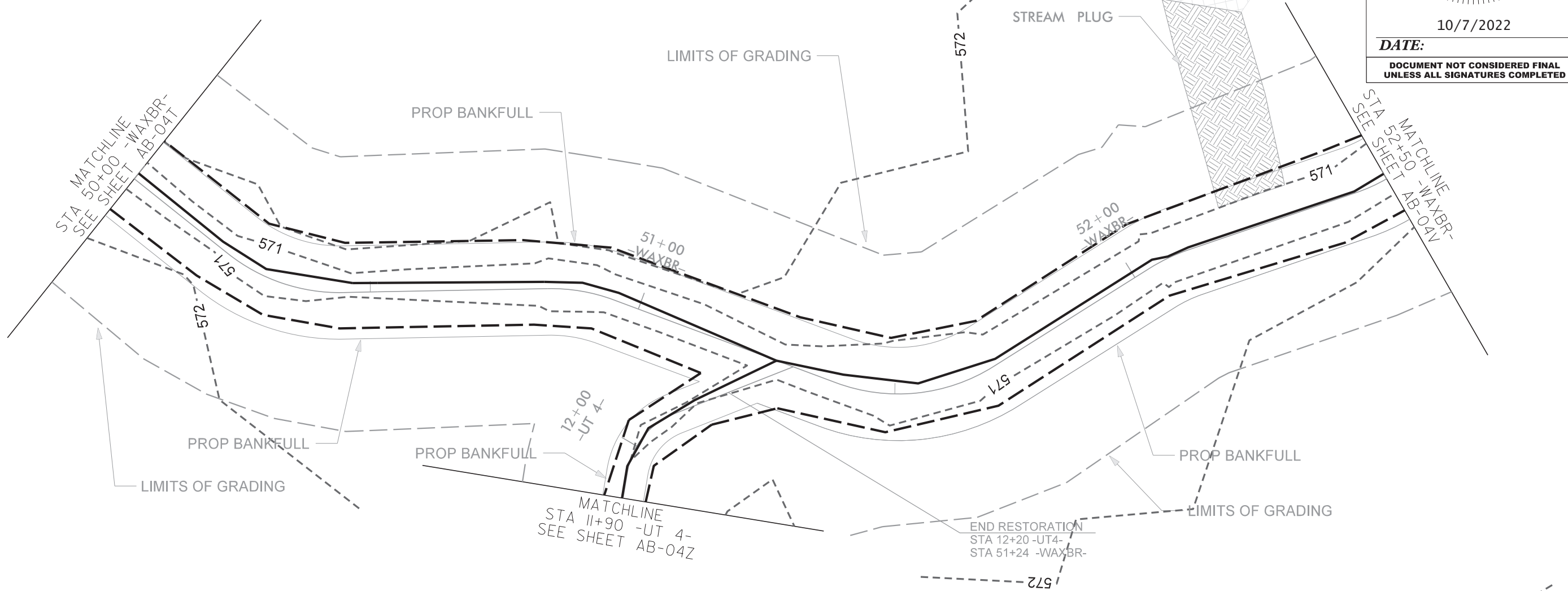
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DocuSigned by:
Josh Dalton
 1089AD8C14994C3...
 PROFESSIONAL ENGINEER
 JOSHUA G. DALTON
 26971
 DATE: 10/7/2022

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 8908 S. FRANKLIN ROAD
 SUITE 1000
 CHARLOTTE, NC 28217
 TEL: (919) 855-2243
 FAX: (919) 855-2243
 ENG. FIRM LICENSE NO. C-980

~NOW OR FORMERLY~
 BIBI MARIAM NIAZI-SAI REVOCABLE TRUST
 DB 7073/202
 TRACT 4, PC J/45
 PID 03168003D



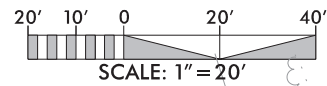
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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :	1221-20024
DRAWING NAME:	WITS END PSH AB-04U
DATE:	2022
DRAWN BY:	JRH
REVIEWED BY:	JGD
REVISIONS:	
SHEET NO.	AB-04U

10/6/2022
 Wits_End_Psh_AB-04U.dgn
 jgd

RECORD DRAWING

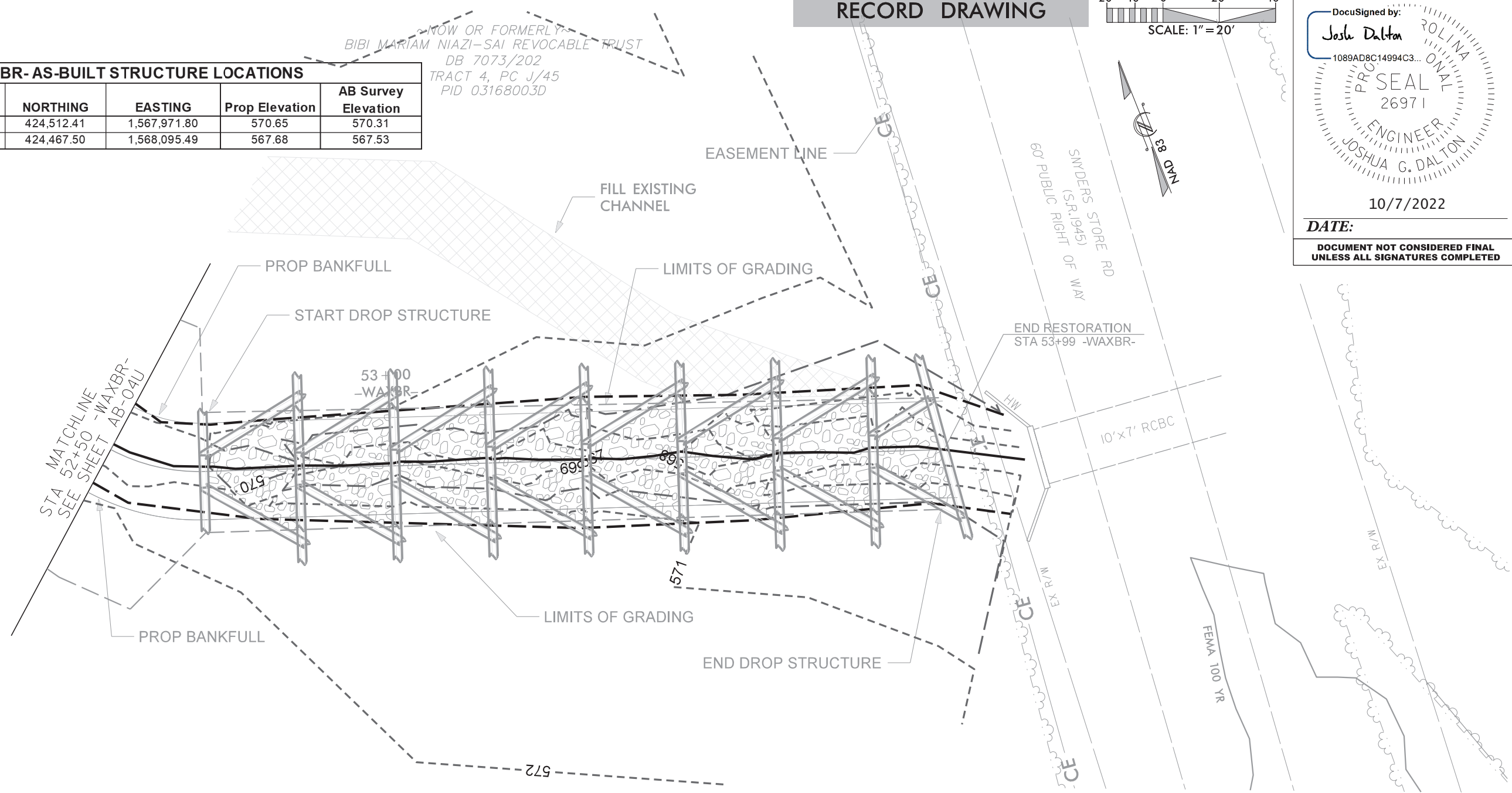


DocuSigned by:
Josh Dalton
 1089AD8C14994C3...
 PROFESSIONAL ENGINEER
 26971
JOSHUA G. DALTON
 DATE: 10/7/2022

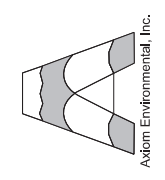
SUNGATE DESIGN GROUP, P.A.
 890 GILES FARM LANE ROAD
 SUITE 2000 CARY, NC 27513
 TEL: (919) 855-2243
 ENG FIRM LICENSE NO. C-980

-WAXBR- AS-BUILT STRUCTURE LOCATIONS

STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
DROP STRUCTURE	424,512.41	1,567,971.80	570.65	570.31
DROP STRUCTURE	424,467.50	1,568,095.49	567.68	567.53

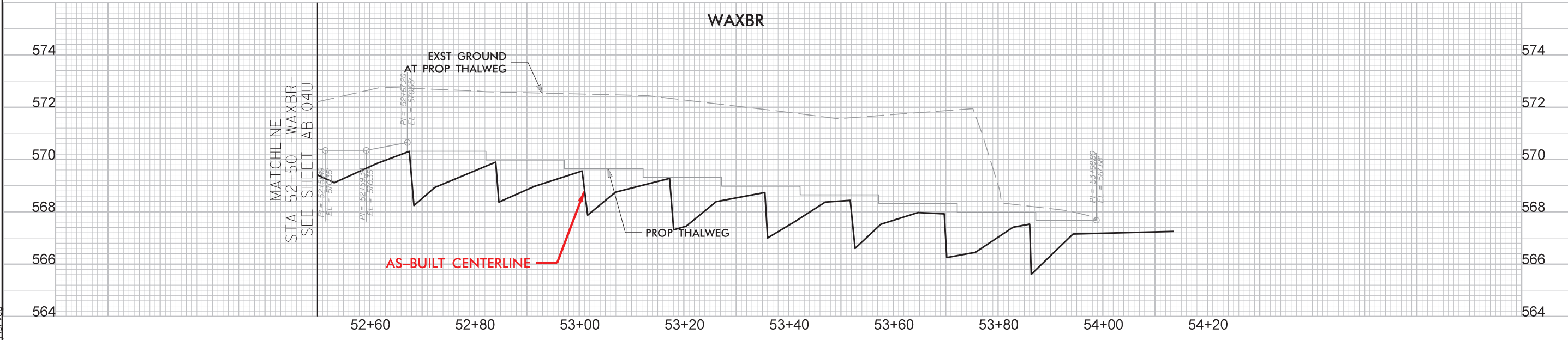


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WITS END UNION COUNTY, NC

AS-BUILT STRUCTURES

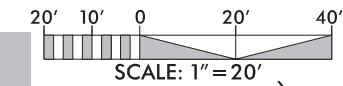


10/6/2022 Wits_End_Psh_AB-04V.dgn

PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-04V
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:
 SHEET NO. **AB-04V**

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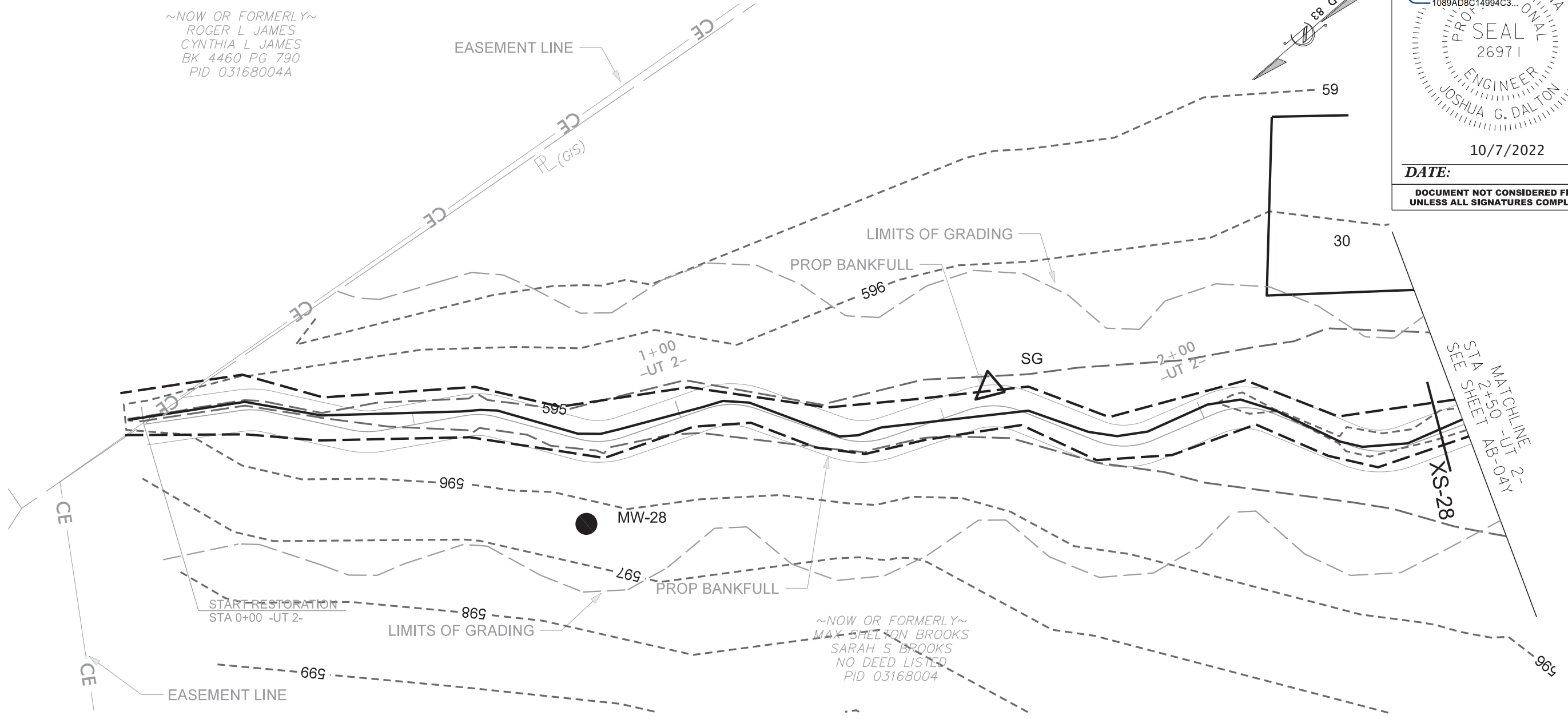
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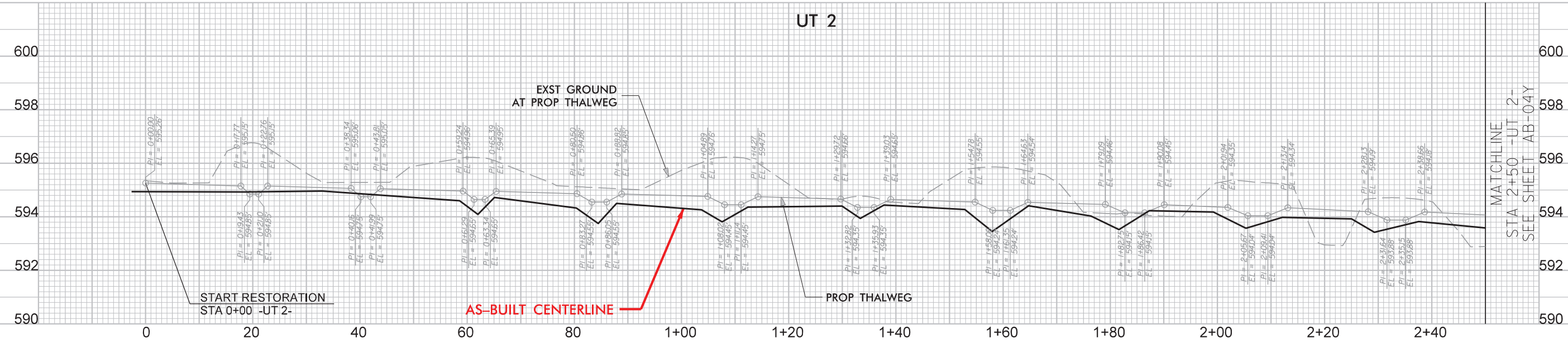
DocuSigned by:
Josh Dalton
 1089AD8C14994C3...
 PROFESSIONAL SEAL
 26971
 ENGINEER
JOSHUA G. DALTON
 DATE: 10/7/2022

SUNGATE DESIGN GROUP, P.A.
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 SUITE 200
 CHARLOTTE, NC 27866
 TEL: (919) 855-2243
 ENG FIRM LICENSE NO. C-980

~NOW OR FORMERLY~
 ROGER L JAMES
 CYNTHIA L JAMES
 BK 4460 PG 790
 PID 03168004A



UT 2



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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :	1221-20024
DRAWING NAME:	WITS END PSH AB-04X
DATE:	2022
DRAWN BY:	JRH
REVIEWED BY:	JGD
REVISIONS:	
SHEET NO.	AB-04X

10/6/2022
 Wits_End_Psh_AB-04X.dgn

-UT 2- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	428,012.30	1,567,531.94	593.90	593.51
CROSS VANE	427,966.59	1,567,495.93	593.28	593.05
CROSS VANE	427,931.94	1,567,473.65	592.82	592.48
CROSS VANE	427,877.96	1,567,420.76	592.14	591.76

RECORD DRAWING

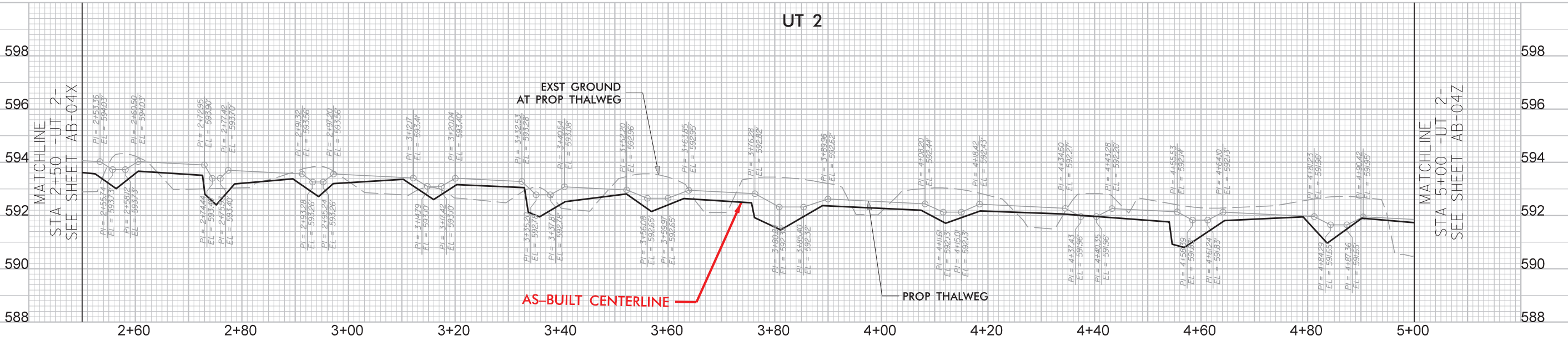
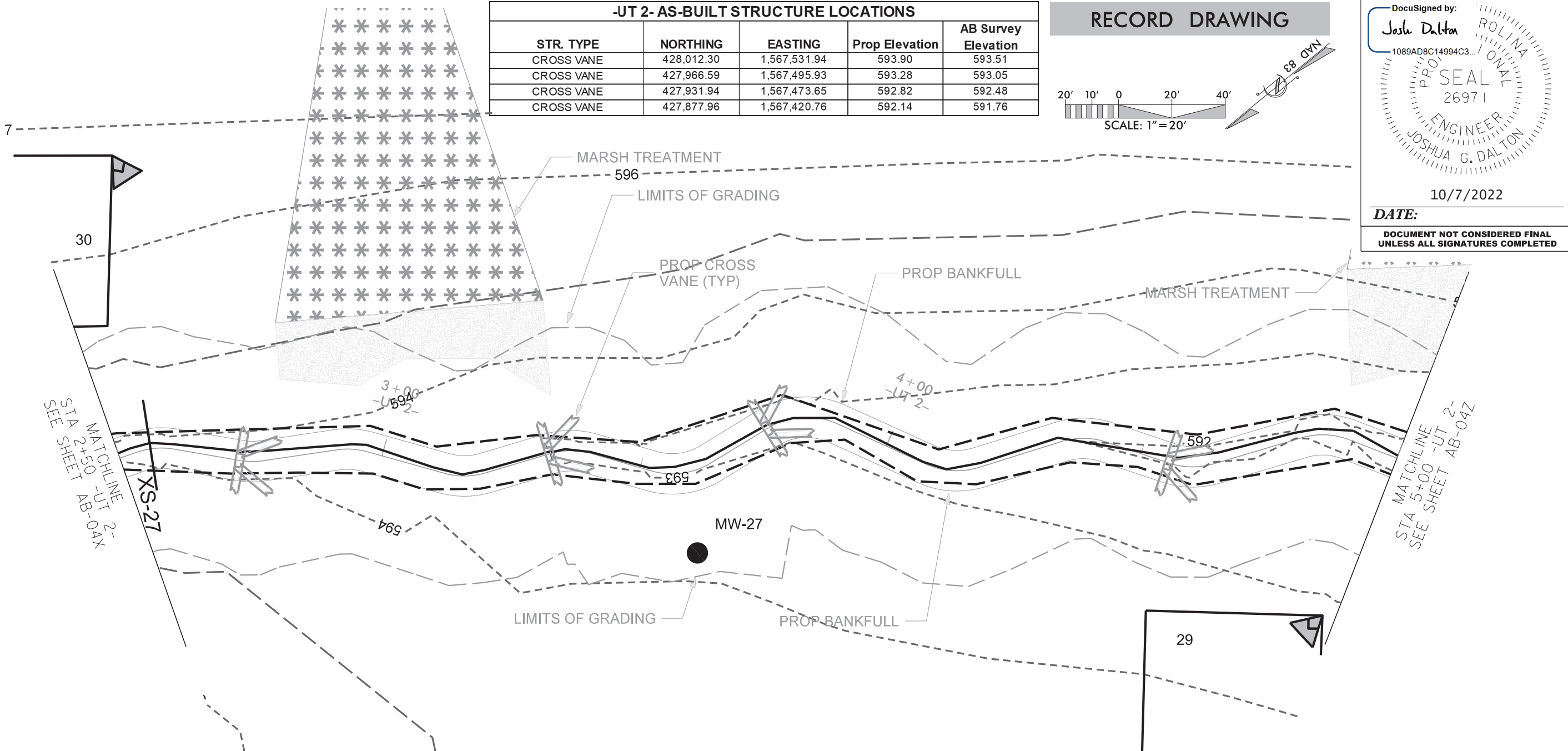
DocuSigned by:
Josh Dalton
 1089AD8C14994C3...
 PROFESSIONAL SEAL
 26971
 ENGINEER
 JOSHUA G. DALTON

DATE: 10/7/2022

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SUNGATE DESIGN GROUP, P.A.
 594 GILES FRENKIN ROAD
 SUITE 200 CARY, NORTH CAROLINA 27506
 TEL: (919) 855-2243
 FAX: (919) 855-2244
 ENG. FIRM LICENSE NO. C-890

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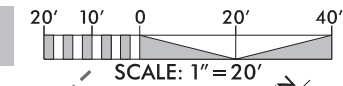
WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-04Y
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO.
AB-04Y

10/6/2022
 Wits_End_Psh_AB-04Y.dgn

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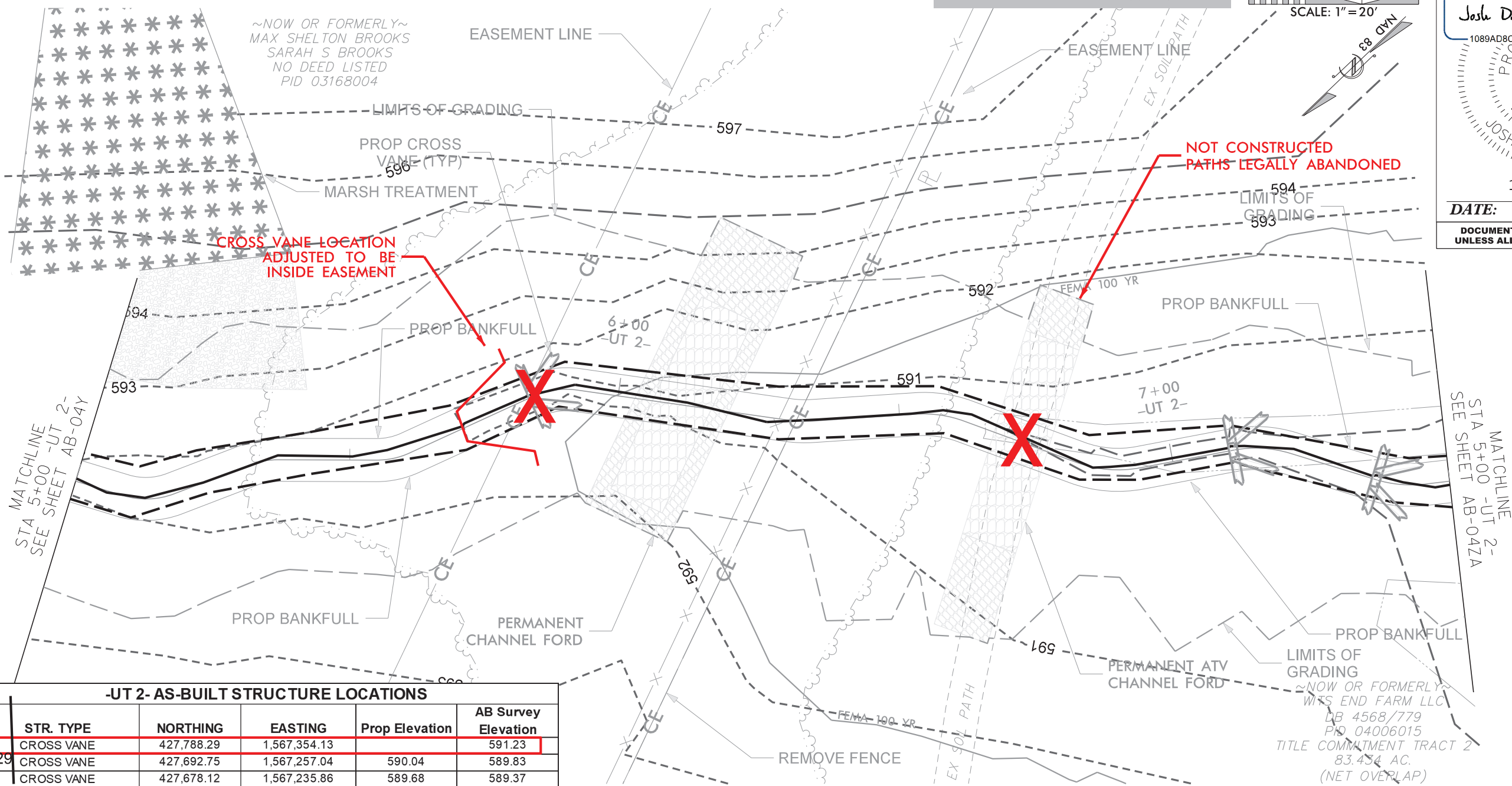


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Josh Dalton
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 PROFESSIONAL ENGINEER
 SEAL 26971
 JOSHUA G. DALTON
 DATE: 10/7/2022

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 ENG. LICENSE NO. C-980

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WITS END ENVIRONMENTAL, INC.

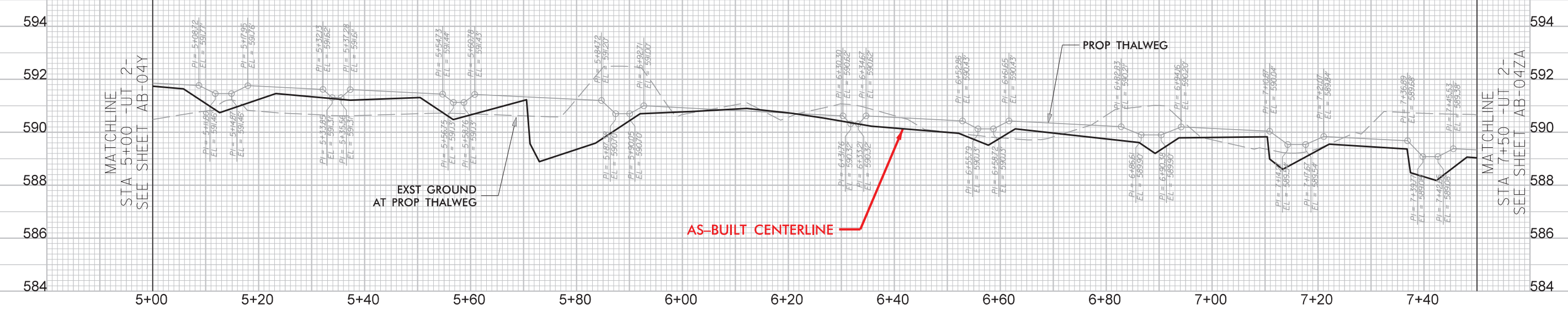


-UT 2- AS-BUILT STRUCTURE LOCATIONS

	STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
	CROSS VANE	427,788.29	1,567,354.13		591.23
29	CROSS VANE	427,692.75	1,567,257.04	590.04	589.83
	CROSS VANE	427,678.12	1,567,235.86	589.68	589.37

~NOW OR FORMERLY~
 WITS END FARM LLC
 LB 4568/779
 PO 04006015
 TITLE COMMITMENT TRACT 2
 83.434 AC.
 (NET OVERLAP)

UT 2



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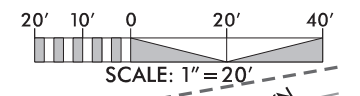
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 DRAWING NAME: WITS END PSH AB-04Z
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO.
AB-04Z

WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

10/6/2022
 Wits_End_Psh_AB-04Z.dgn

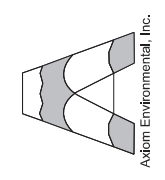
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 WITS END FARM LLC
 DB 4568/779
 PID 04006015
 TITLE COMMITMENT TRACT 2
 83.434 AC.
 (NET OVERLAP)



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Josh Dalton
 1089AD8C14994C3...

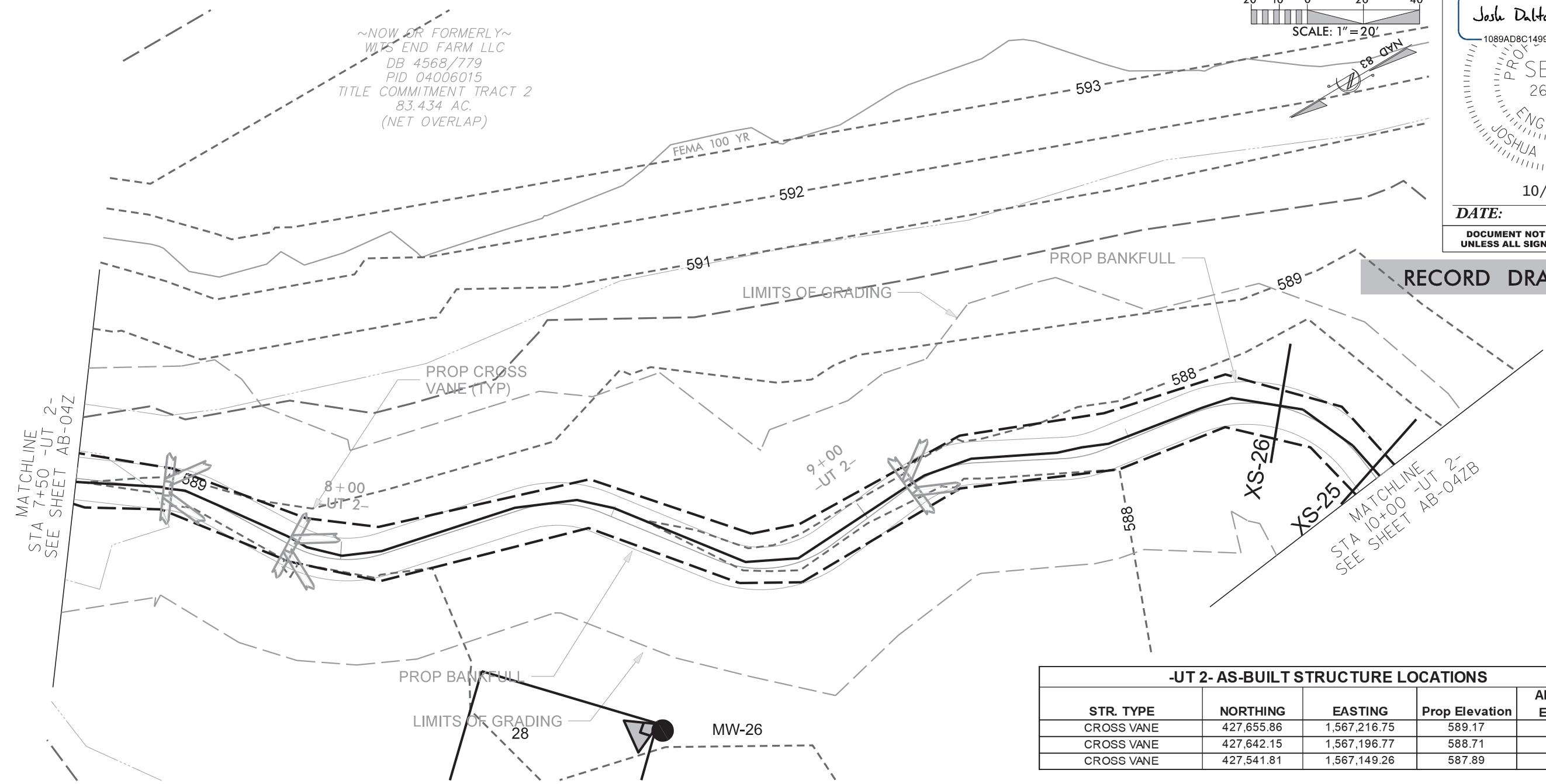
DATE: 10/7/2022

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 WILSON, NC 27606
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 ENG. FIRM LICENSE NO. C-980

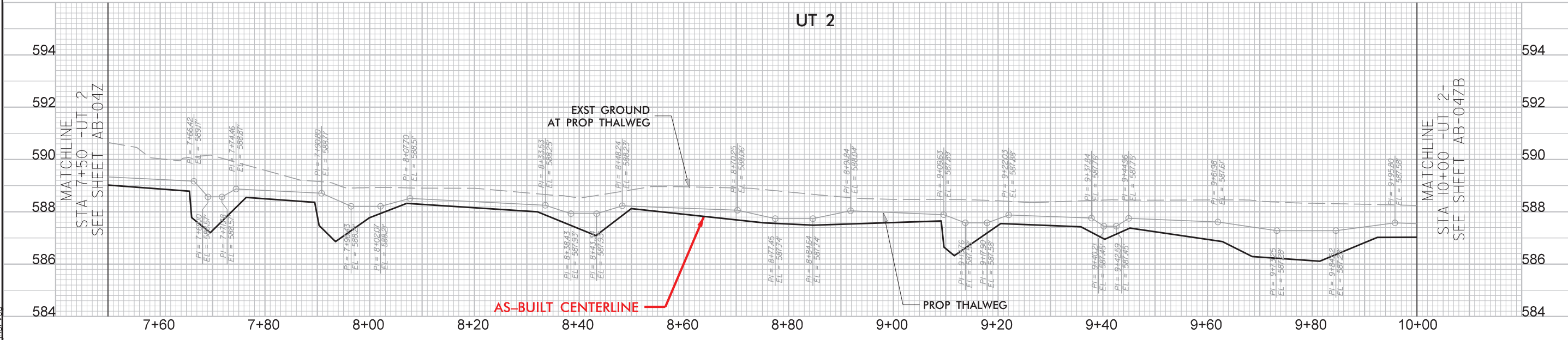


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RECORD DRAWING



STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	427,655.86	1,567,216.75	589.17	588.79
CROSS VANE	427,642.15	1,567,196.77	588.71	588.36
CROSS VANE	427,541.81	1,567,149.26	587.89	587.65



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WITS END
 UNION COUNTY, NC

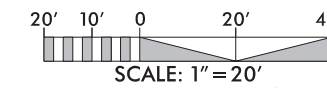
AS-BUILT STRUCTURES

PROJECT # : 1221-20024
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 DATE: 2021
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

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AB-04ZA

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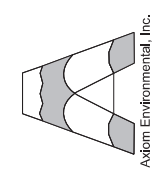


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Josh Dalton
 1089AD8C14994C3...

JOSHUA G. DALTON
 ENGINEER
 26971
 10/7/2022

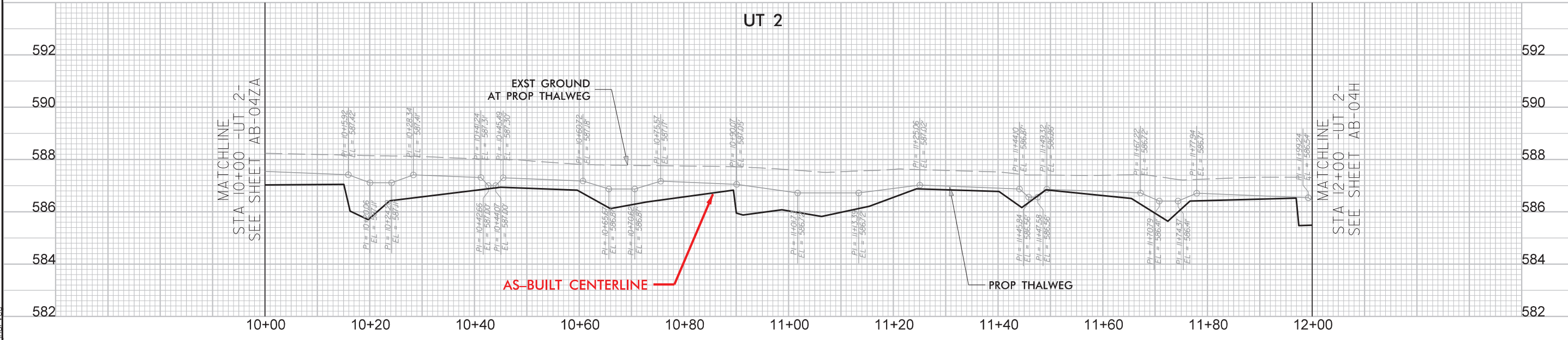
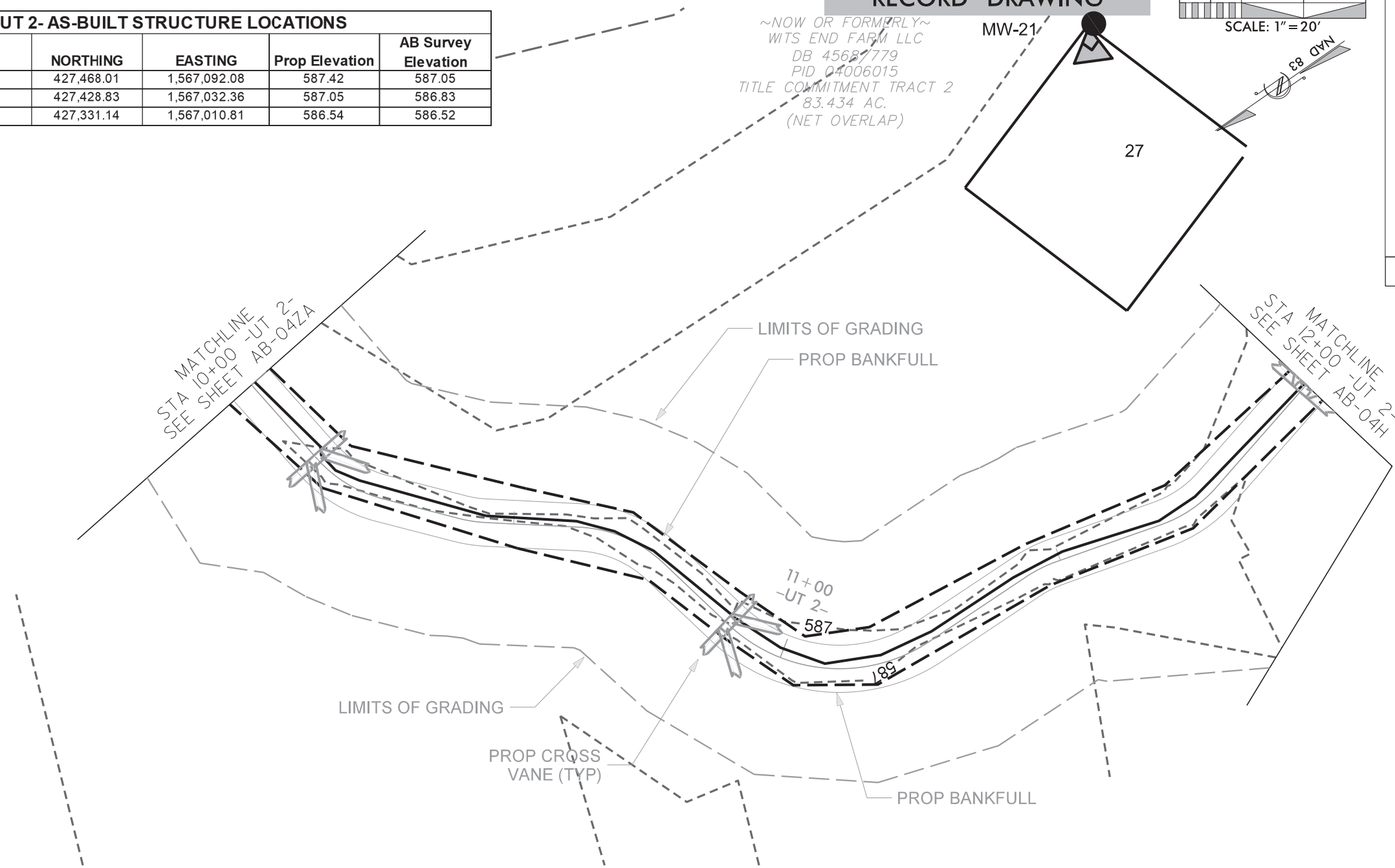
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 890 GUNNERS FARM ROAD
 SUITE 200 CARY, NORTH CAROLINA 27506
 TEL: (919) 855-2243
 ENG. FIRM LICENSE NO. C-980



-UT 2- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	427,468.01	1,567,092.08	587.42	587.05
CROSS VANE	427,428.83	1,567,032.36	587.05	586.83
CROSS VANE	427,331.14	1,567,010.81	586.54	586.52

~NOW OR FORMERLY~
 WITS END FARM LLC
 DB 45687779
 PID 04006015
 TITLE COMMITMENT TRACT 2
 83.434 AC.
 (NET OVERLAP)



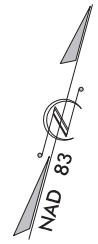
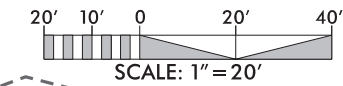
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PROJECT # : 1221-20024
DRAWING NAME: WITS END PSH AB-04ZB
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

SHEET NO.
AB-04ZB

WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

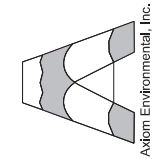


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Josh Dalton
 1089AD8C14994C3...
 PROFESSIONAL ENGINEER
 JOSHUA G. DALTON
 26971
 DATE: 10/7/2022

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 850 GILES FARM ROAD
 SUITE 200
 WILSON, NC 27606
 TEL: (919) 855-2243
 ENG FIRM LICENSE NO. C-980

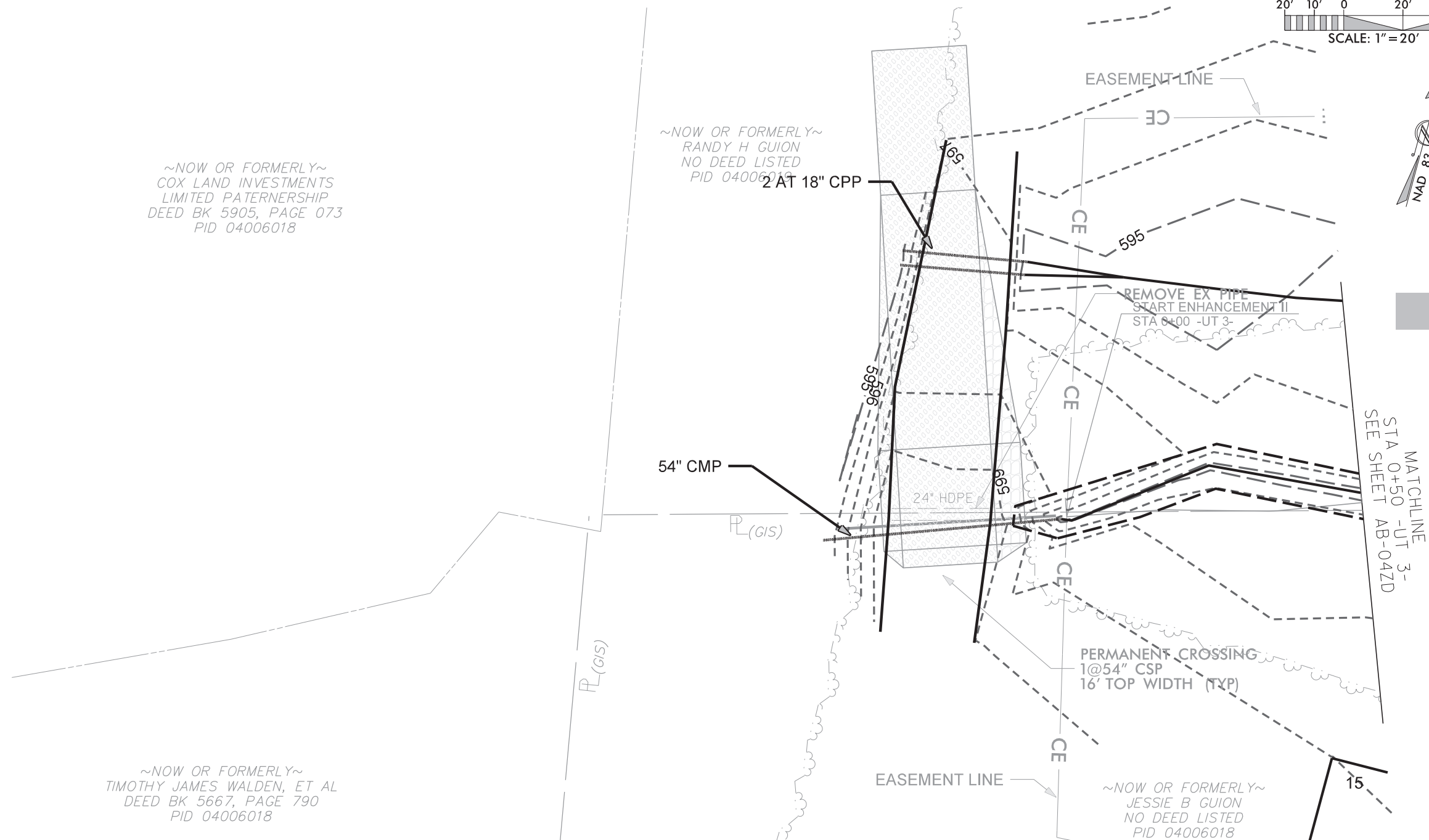


~NOW OR FORMERLY~
 COX LAND INVESTMENTS
 LIMITED PATERNERSHIP
 DEED BK 5905, PAGE 073
 PID 04006018

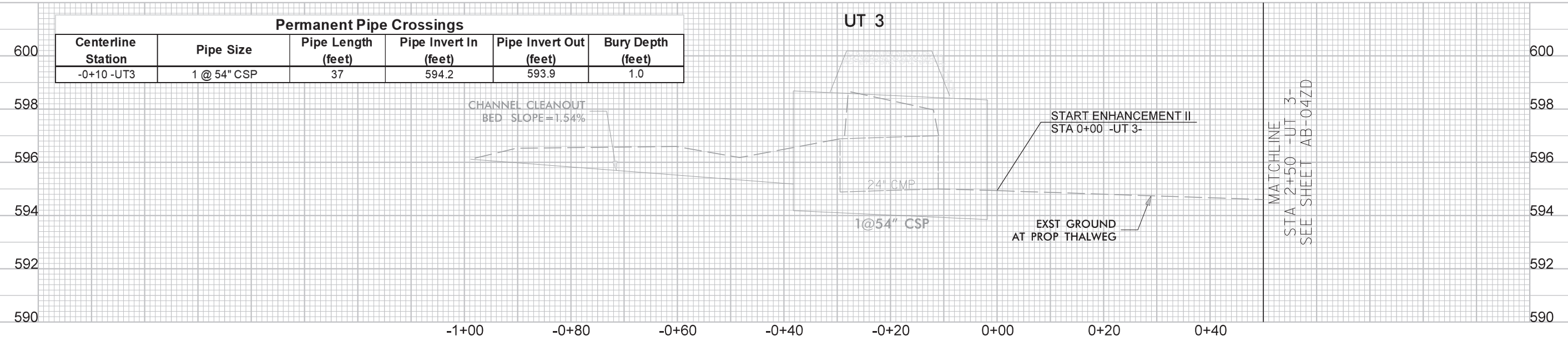
~NOW OR FORMERLY~
 RANDY H GUION
 NO DEED LISTED
 PID 04006018

~NOW OR FORMERLY~
 TIMOTHY JAMES WALDEN, ET AL
 DEED BK 5667, PAGE 790
 PID 04006018

~NOW OR FORMERLY~
 JESSIE B GUION
 NO DEED LISTED
 PID 04006018



Permanent Pipe Crossings					
Centerline Station	Pipe Size	Pipe Length (feet)	Pipe Invert In (feet)	Pipe Invert Out (feet)	Bury Depth (feet)
-0+10 -UT3	1 @ 54" CSP	37	594.2	593.9	1.0



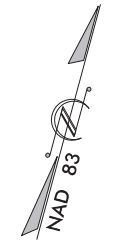
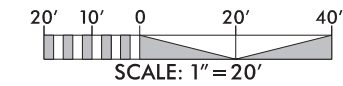
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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # : 1221-20024
 DRAWING NAME: WITS END PSH AB-04ZC
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO.
AB-04ZC

10/6/2022
 Wits_End_Psh_AB-04ZC.dgn
 jrd



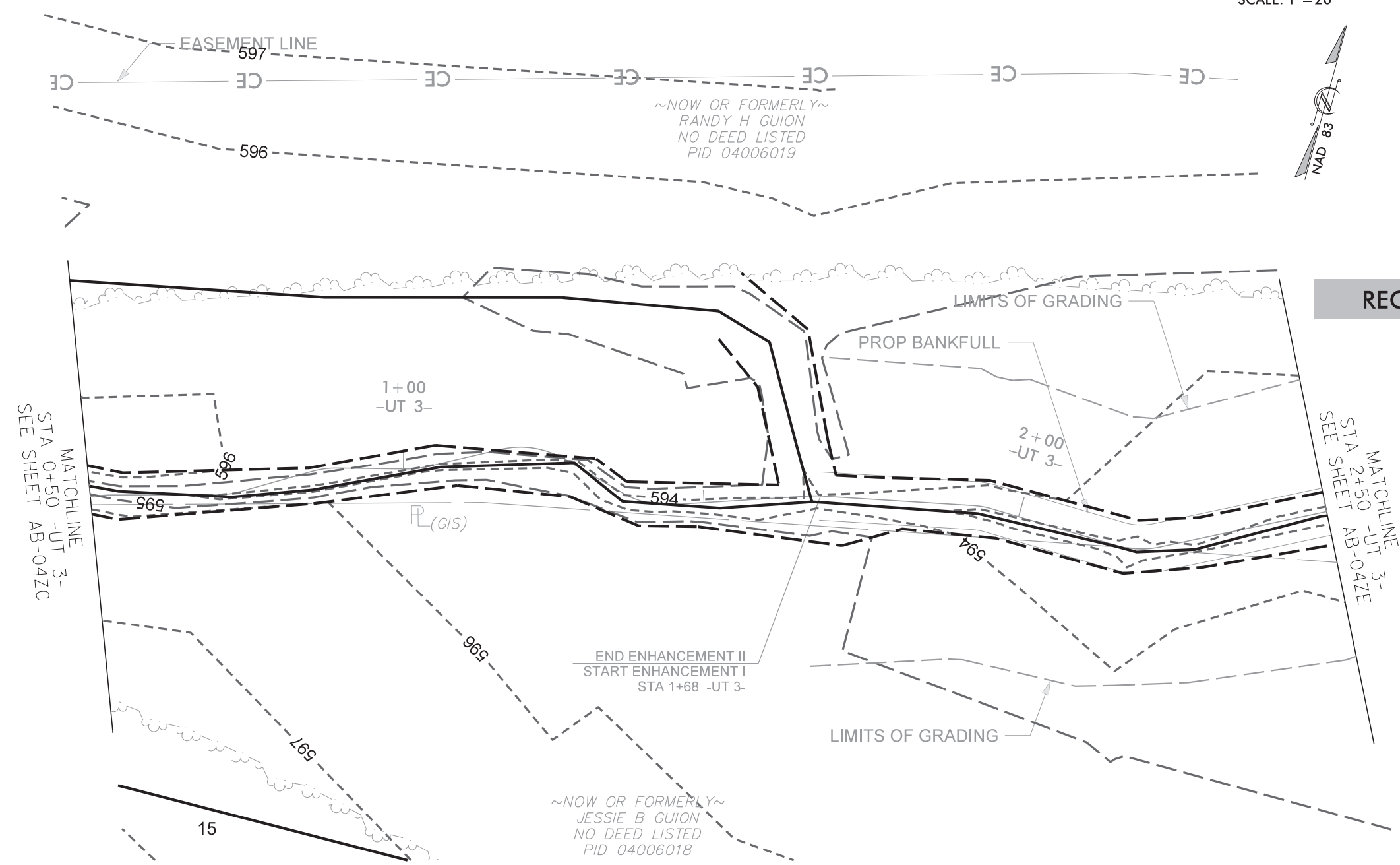
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Josh Dalton
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 PROFESSIONAL ENGINEER
 26971
 JOSHUA G. DALTON

DATE: 10/7/2022

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 SUITE 200
 CHARLOTTE, NC 27866
 TEL: (919) 855-2243
 ENG FIRM LICENSE NO. C-980

Aslam Environmental, Inc.

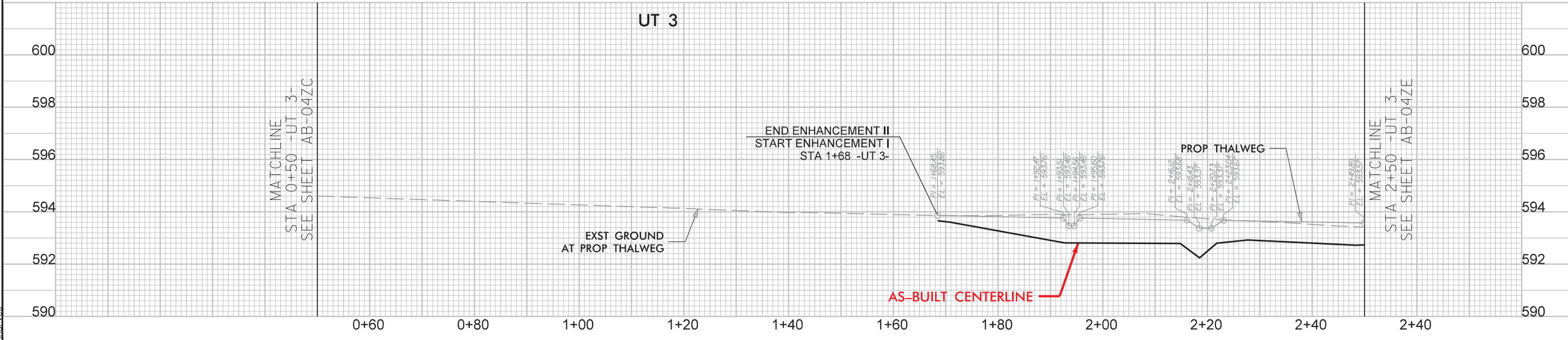


RECORD DRAWING

MATCHLINE
STA 0+50 -UT 3-
SEE SHEET AB-04ZC

MATCHLINE
STA 2+50 -UT 3-
SEE SHEET AB-04ZE

UT 3



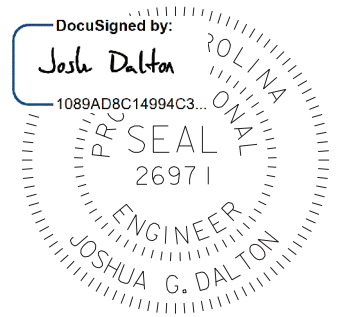
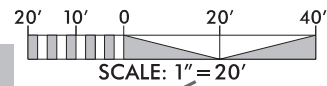
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PROJECT # :	1221-20024
DRAWING NAME:	WITS END PSH AB-04ZD
DATE:	2022
DRAWN BY:	JRH
REVIEWED BY:	JGD
REVISIONS:	
SHEET NO.	AB-04ZD

WITS END
UNION COUNTY, NC
AS-BUILT STRUCTURES

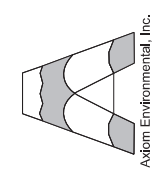
10/6/2022
Wits_End_Psh_AB-04ZD.dgn
jrh

RECORD DRAWING



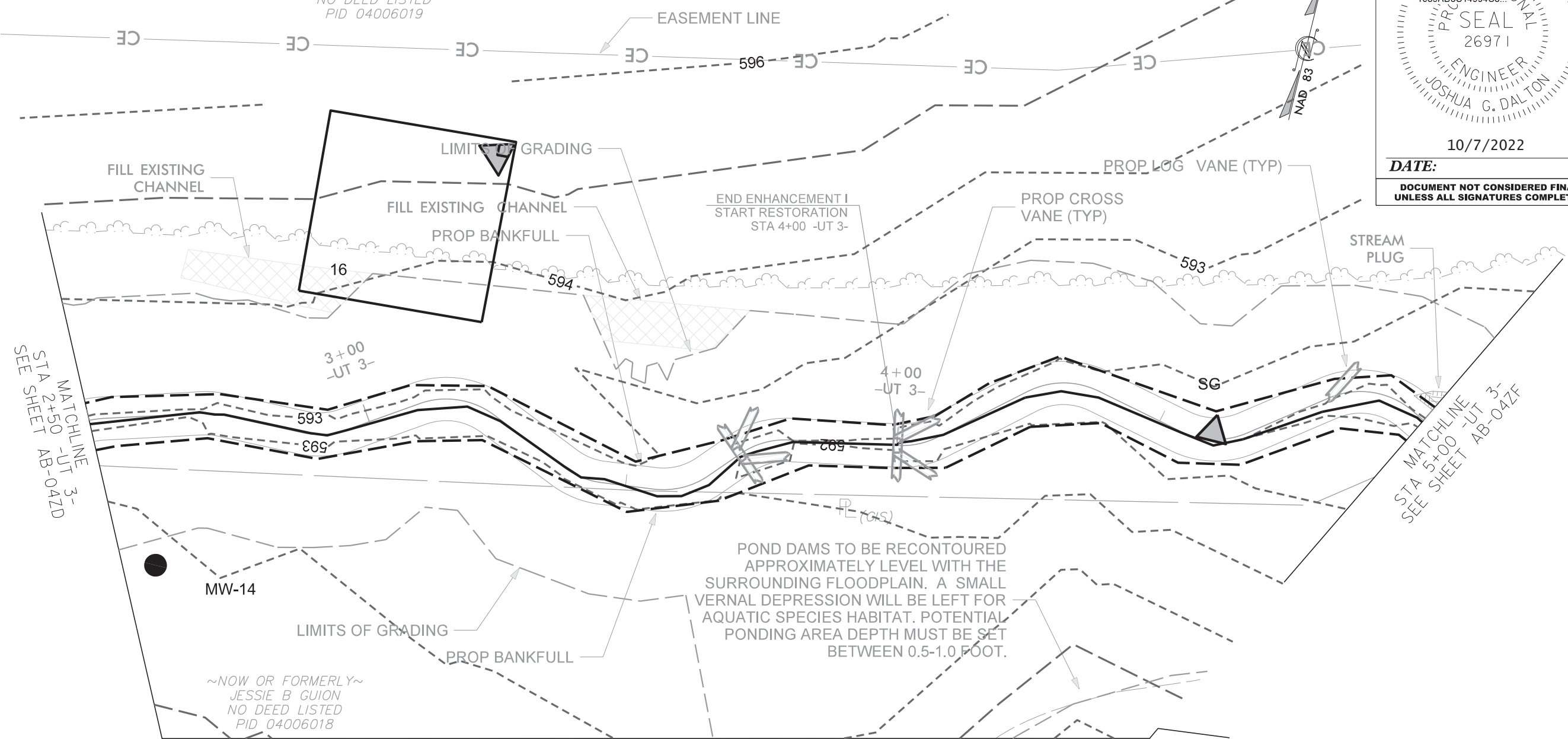
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 1089AD8C14994C3...
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 890 GILES FARM ROAD
 SUITE 200
 CARY, NC 27513
 TEL: (919) 855-2243
 FAX: (919) 855-2244
 ENG. LICENSE NO. C-980



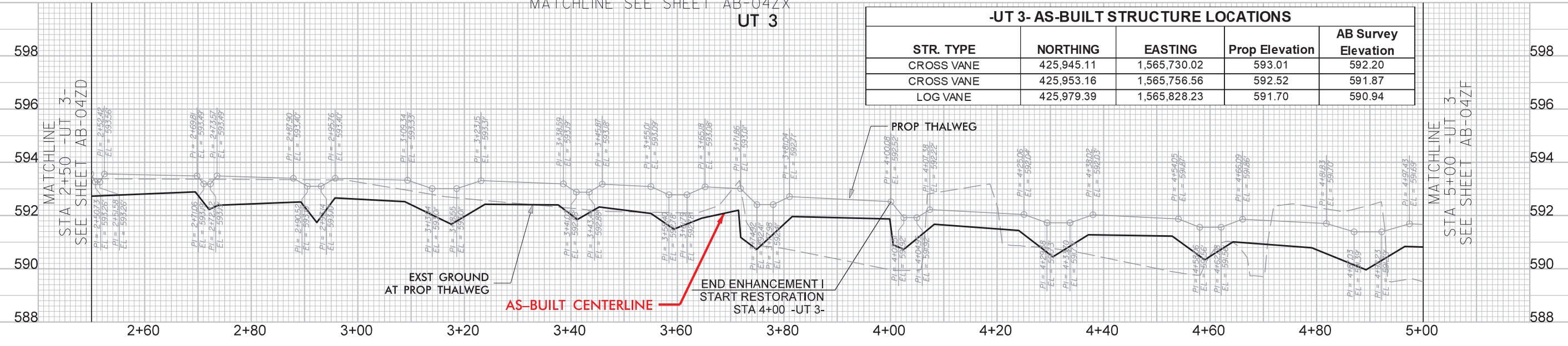
~NOW OR FORMERLY~
 RANDY H GUION
 NO DEED LISTED
 PID 04006019

~NOW OR FORMERLY~
 JESSIE B GUION
 NO DEED LISTED
 PID 04006018



UT 3

-UT 3- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	425,945.11	1,565,730.02	593.01	592.20
CROSS VANE	425,953.16	1,565,756.56	592.52	591.87
LOG VANE	425,979.39	1,565,828.23	591.70	590.94



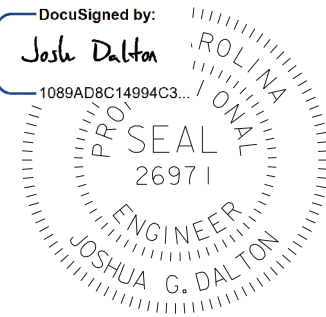
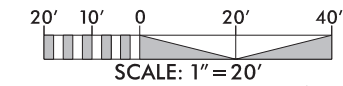
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PROJECT # : 1221-20024
 DRAWING NAME: WITS END PSH AB-04ZE
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO.
AB-04ZE

WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

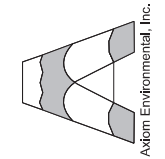
10/6/2022
 Wits_End_psh_AB-04ZE.dgn



DATE: 10/7/2022

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 934 GILES FARM ROAD
 SUITE 200 CARY, NORTH CAROLINA 27506
 TEL: (919) 855-2243
 ENG FIRM LICENSE NO. C-980



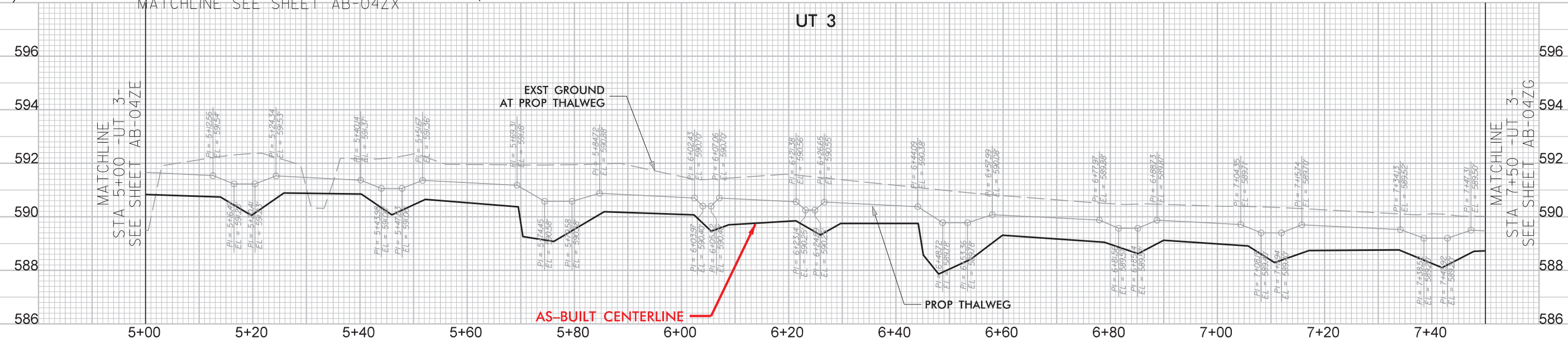
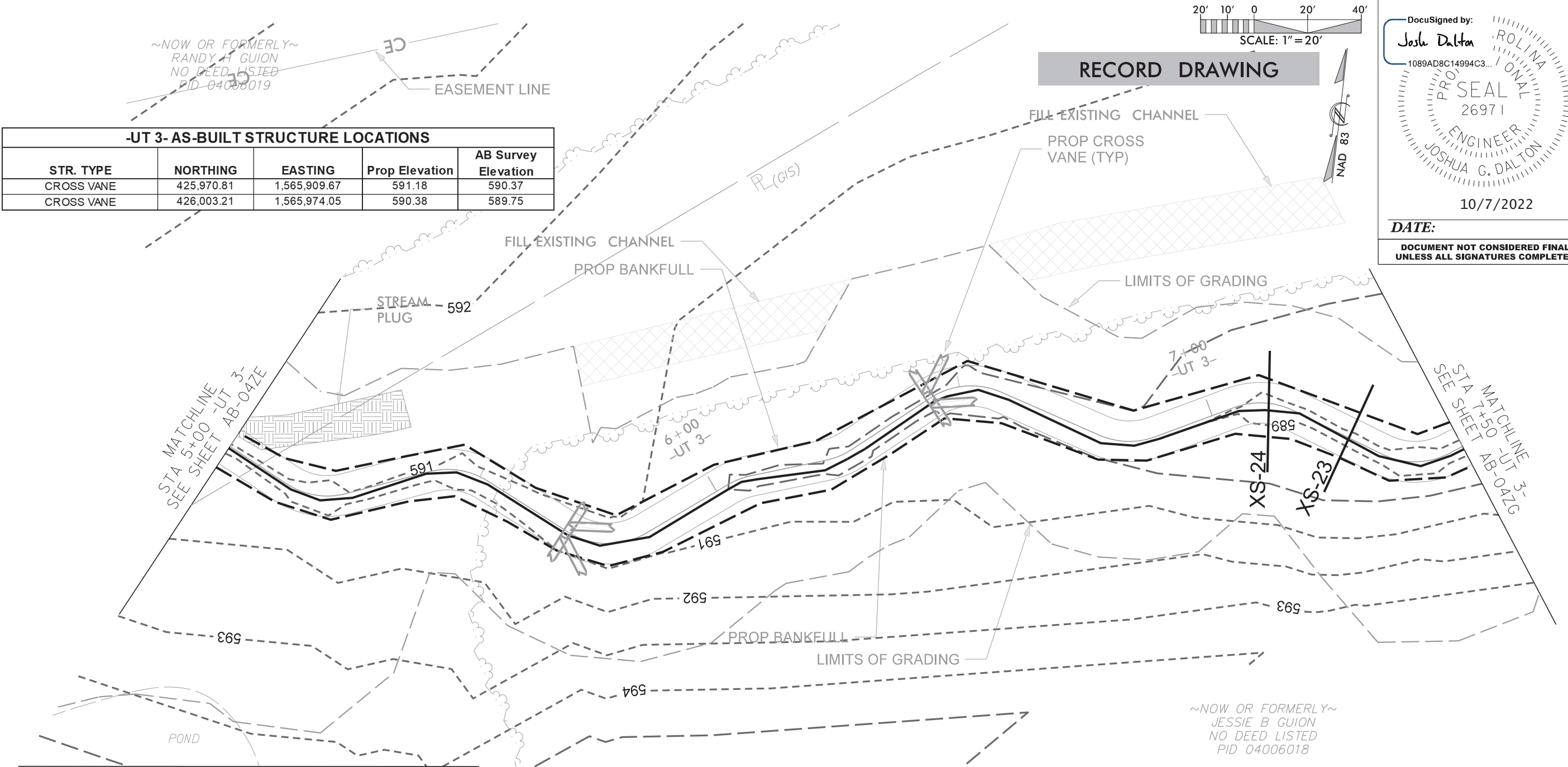
WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # : 1221-20024
 DRAWING NAME: WITS END PSH AB-04ZF
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO. **AB-04ZF**

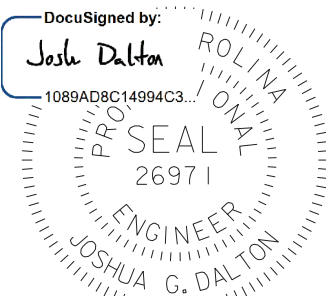
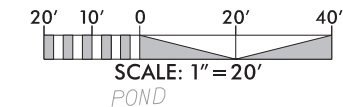
UT 3- AS-BUILT STRUCTURE LOCATIONS

STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	425,970.81	1,565,909.67	591.18	590.37
CROSS VANE	426,003.21	1,565,974.05	590.38	589.75



10/6/2022
 Wits_End_Psh_AB-04ZF.dgn
 jrd

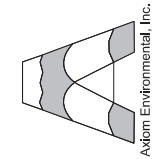
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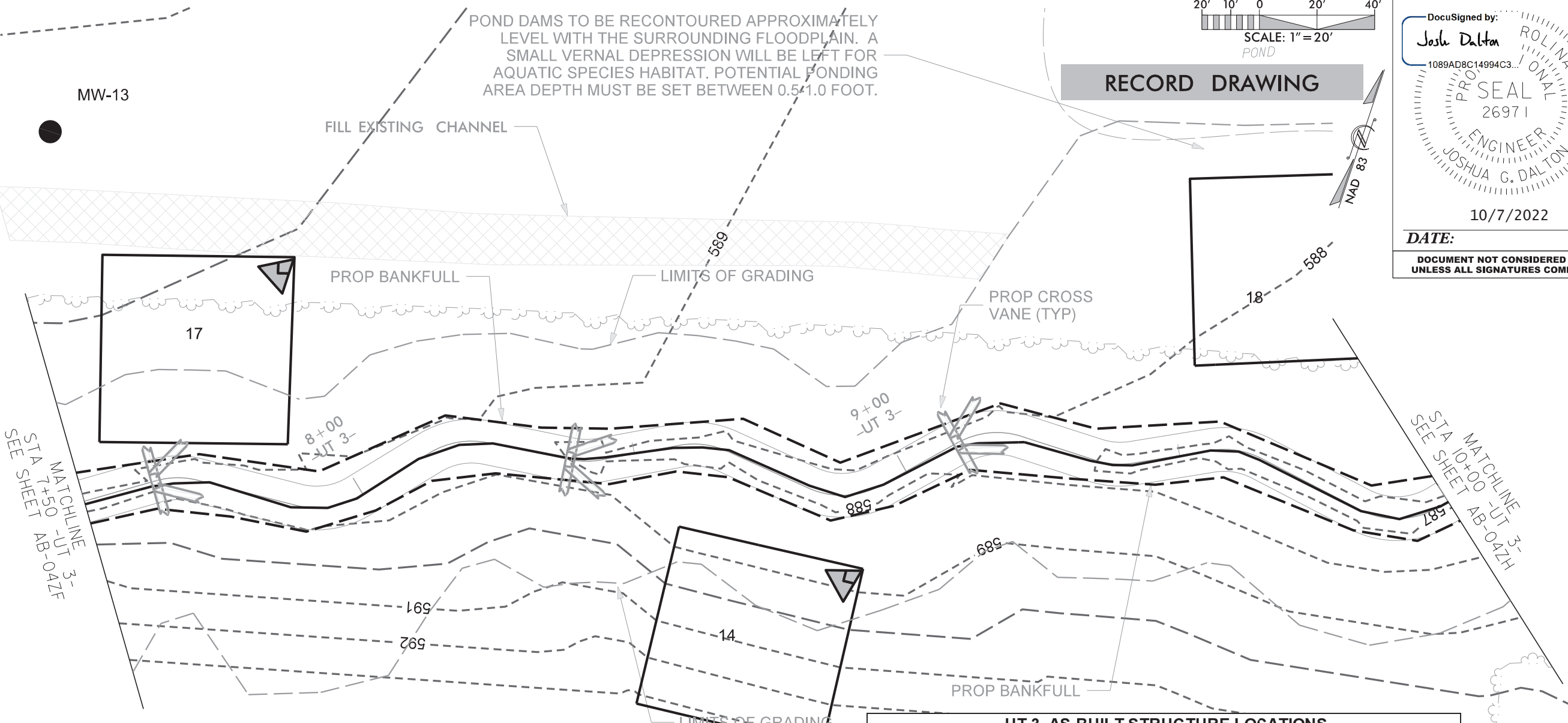
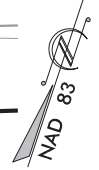
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890 GUNNERS FARM ROAD
CARY, NC 27513
TEL: (919) 855-2243
ENG FIRM LICENSE NO. C-890



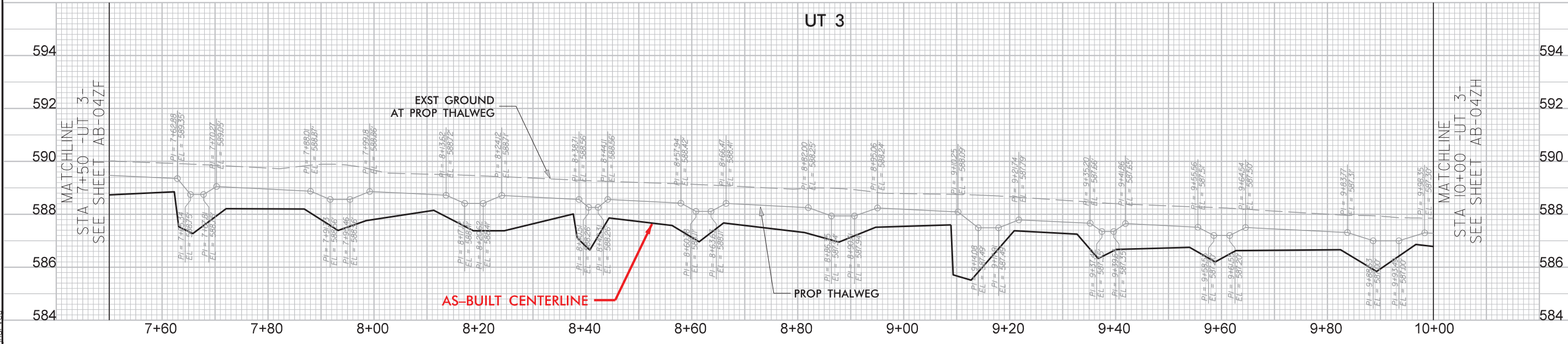
POND DAMS TO BE RECONTOURED APPROXIMATELY LEVEL WITH THE SURROUNDING FLOODPLAIN. A SMALL VERNAL DEPRESSION WILL BE LEFT FOR AQUATIC SPECIES HABITAT. POTENTIAL PONDING AREA DEPTH MUST BE SET BETWEEN 0.5-1.0 FOOT.

RECORD DRAWING



~NOW OR FORMERLY~
JESSIE B GUION
NO DEED LISTED
PID 04006018

-UT 3- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,012.70	1,566,084.46	589.35	588.85
CROSS VANE	426,038.77	1,566,151.64	588.56	588.01
CROSS VANE	426,062.68	1,566,214.62	588.09	587.60



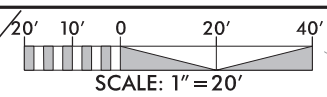
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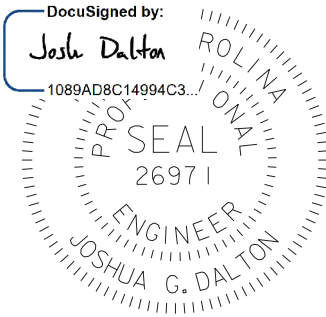
WITS END
UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # : 1221-20024
DRAWING NAME: WITS END PSH AB-04ZG
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

SHEET NO.
AB-04ZG



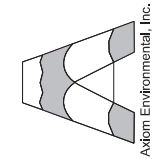
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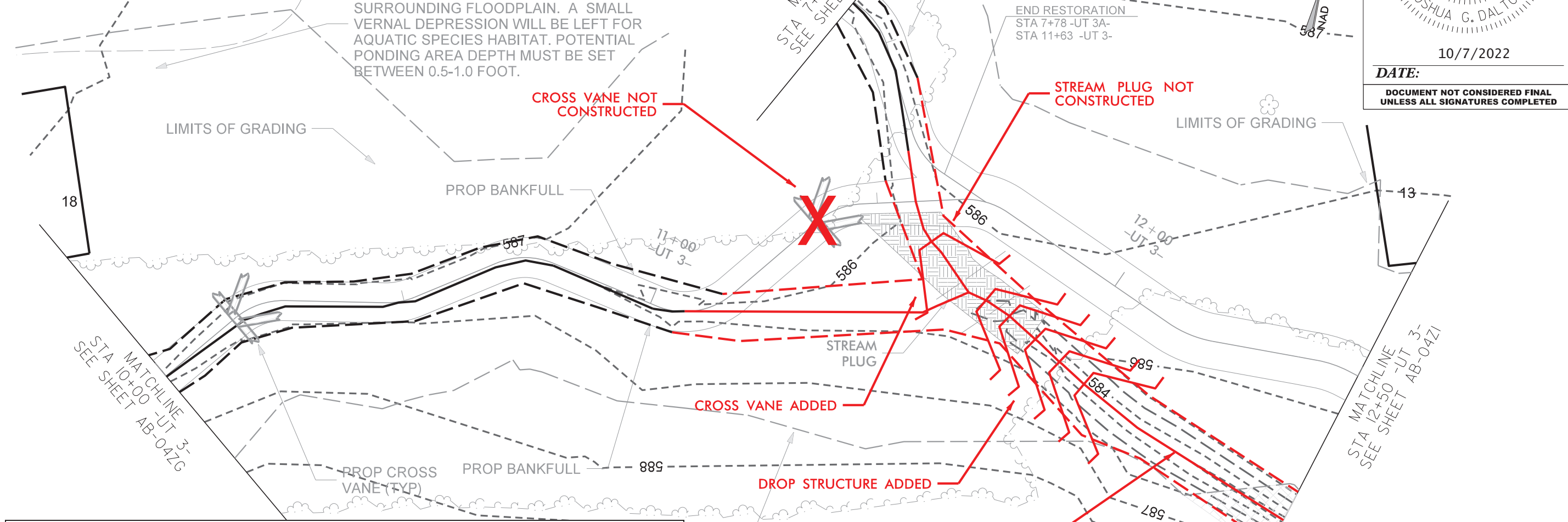
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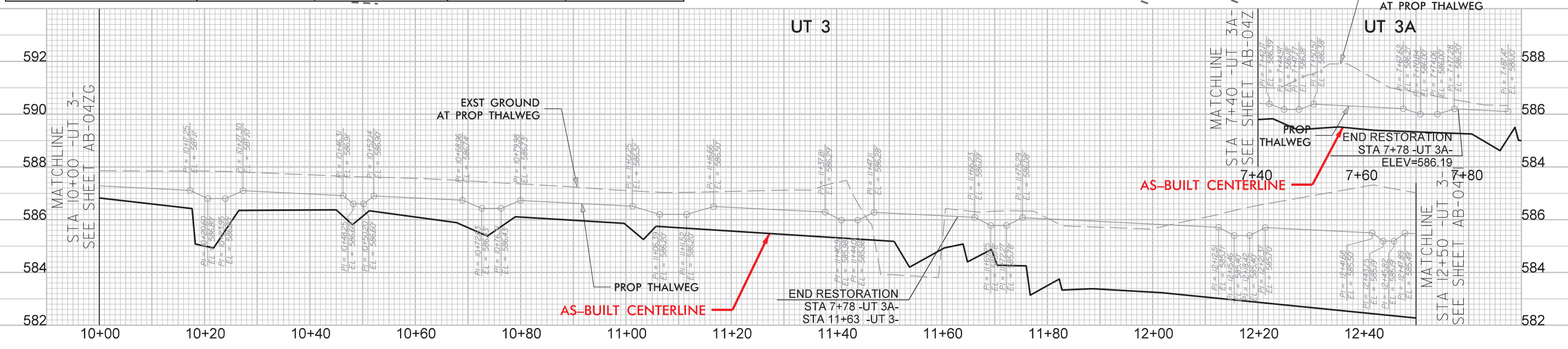
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 930 GILES FARM ROAD
 SUITE 1000
 WILSON, NC 27606
 TEL: (919) 855-2243
 ENG. FIRM LICENSE NO. C-980



-UT 3- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,093.05	1,566,309.59	587.11	586.42
CROSS VANE	426,131.33	1,566,414.76	586.29	
DROP STRUCTURE	426,122.52	1,566,448.99		585.08
DROP STRUCTURE	426,110.27	1,566,470.21		583.38



-UT 3A- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,131.57	1,566,436.77		585.50



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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

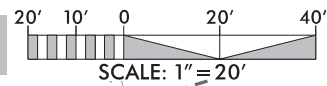
PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-04ZH
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO. **AB-04ZH**

10/6/2022
 Wits_End_Psh_AB-04ZH.dgn
 jrd

-UT 3- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,115.27	1,566,544.40	585.26	
CROSS VANE	426,077.24	1,566,687.26	584.22	
CROSS VANE	426,061.06	1,566,722.74	583.76	

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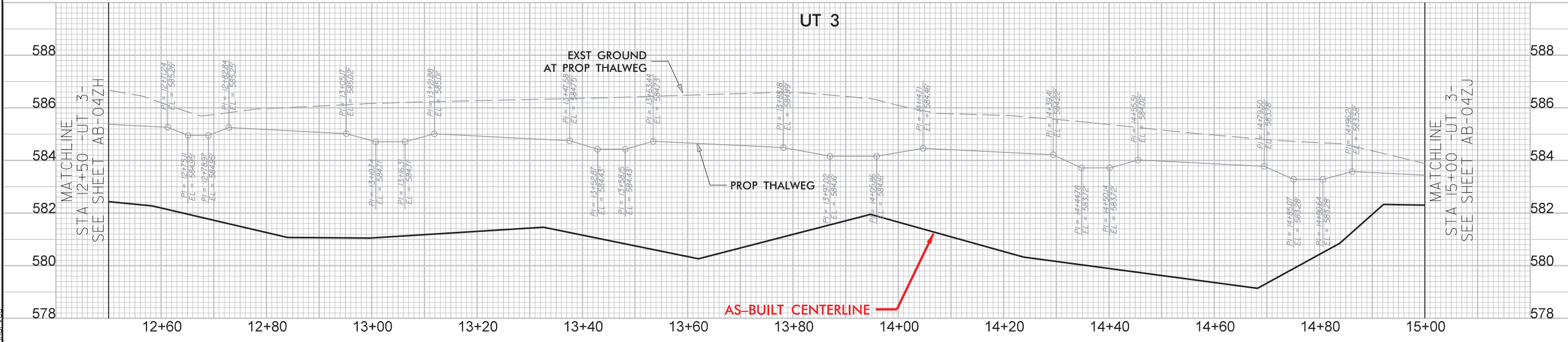
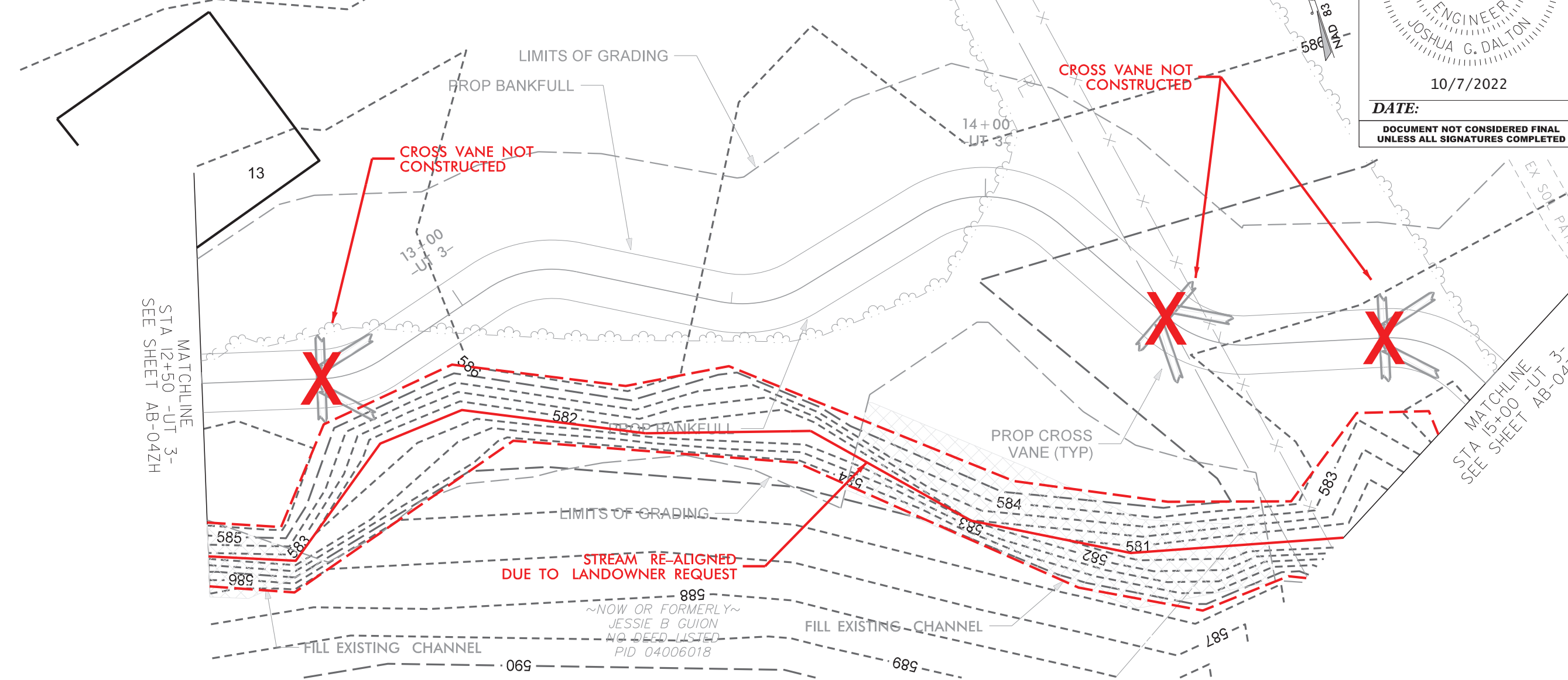


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Josh Dalton
 1089AD8C14994C3...
 PROFESSIONAL SEAL
 26971
 ENGINEER
 JOSHUA G. DALTON
 DATE: 10/7/2022

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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES



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 DRAWN BY: JRH
 REVIEWED BY: JGD
 REVISIONS:

SHEET NO.
AB-04ZI

-UT 3- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,030.78	1,566,746.30	583.35	
CROSS VANE	426,020.55	1,566,788.18	582.92	
CROSS VANE	426,005.70	15,566,794.08	582.26	
CROSS VANE	425,997.17	1,566,880.05	582.07	581.68
CROSS VANE	425,981.65	1,566,921.25	581.53	581.19

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PID 04000018

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SCALE: 1" = 20'

DATE: 10/7/2022

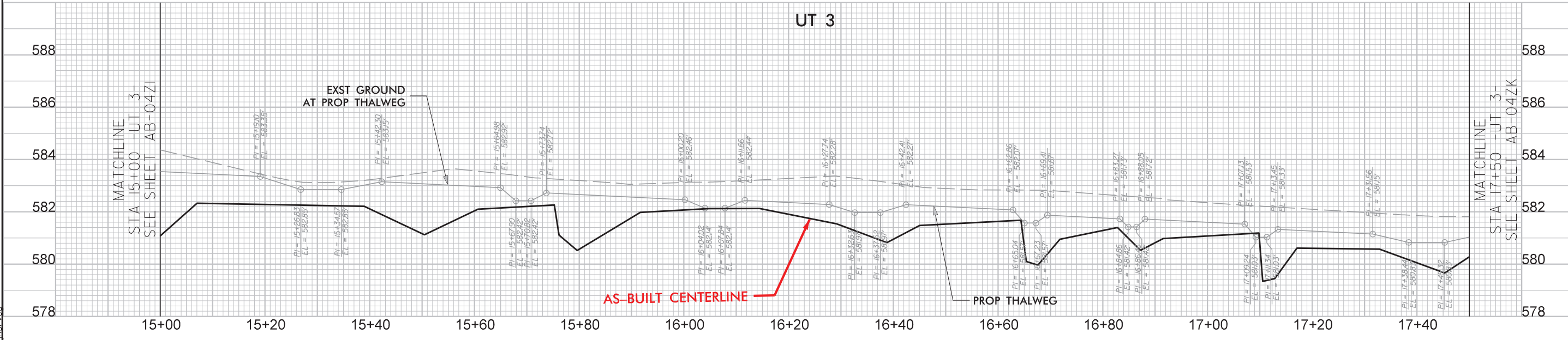
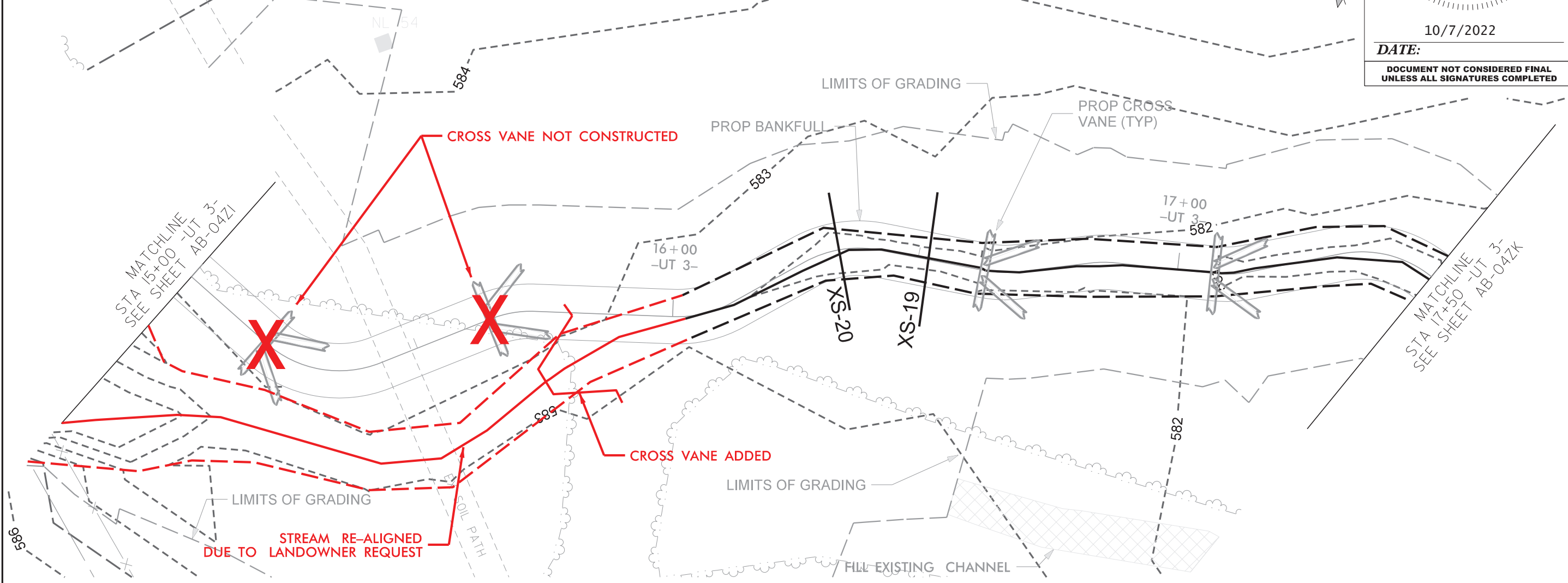
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ENGINEER
JOSHUA G. DALTON

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AS-BUILT STRUCTURES

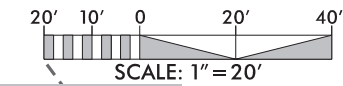
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REVIEWED BY: JGD
REVISIONS:

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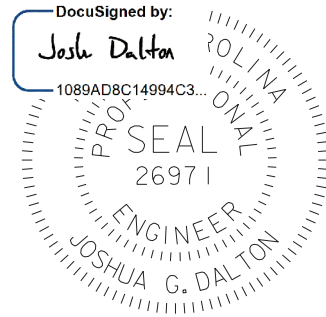
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-UT 3- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	425,933.04	1,566,997.26	580.77	580.43
CROSS VANE	425,887.75	1,567,074.26	580.15	579.61
CROSS VANE	425,847.30	1,567,149.06	579.54	579.11

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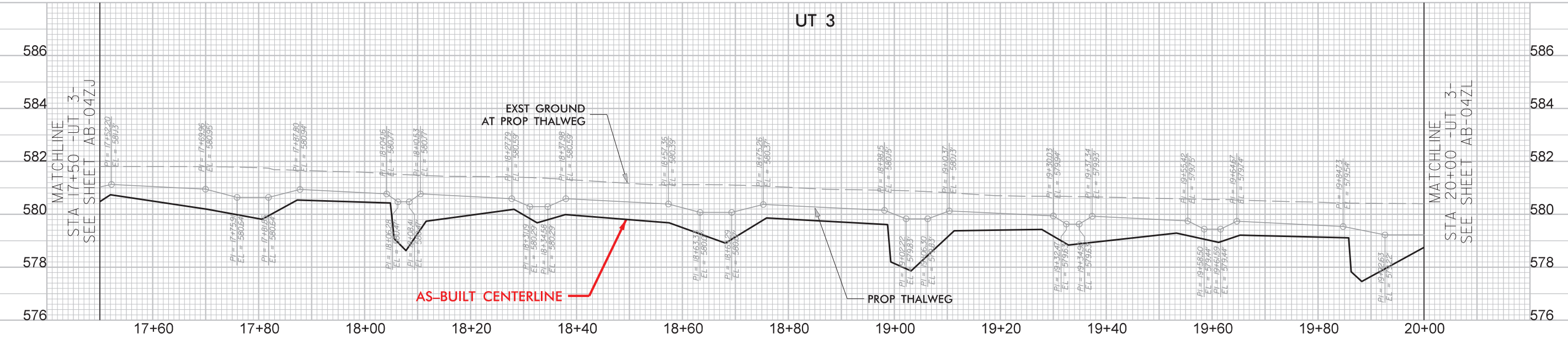
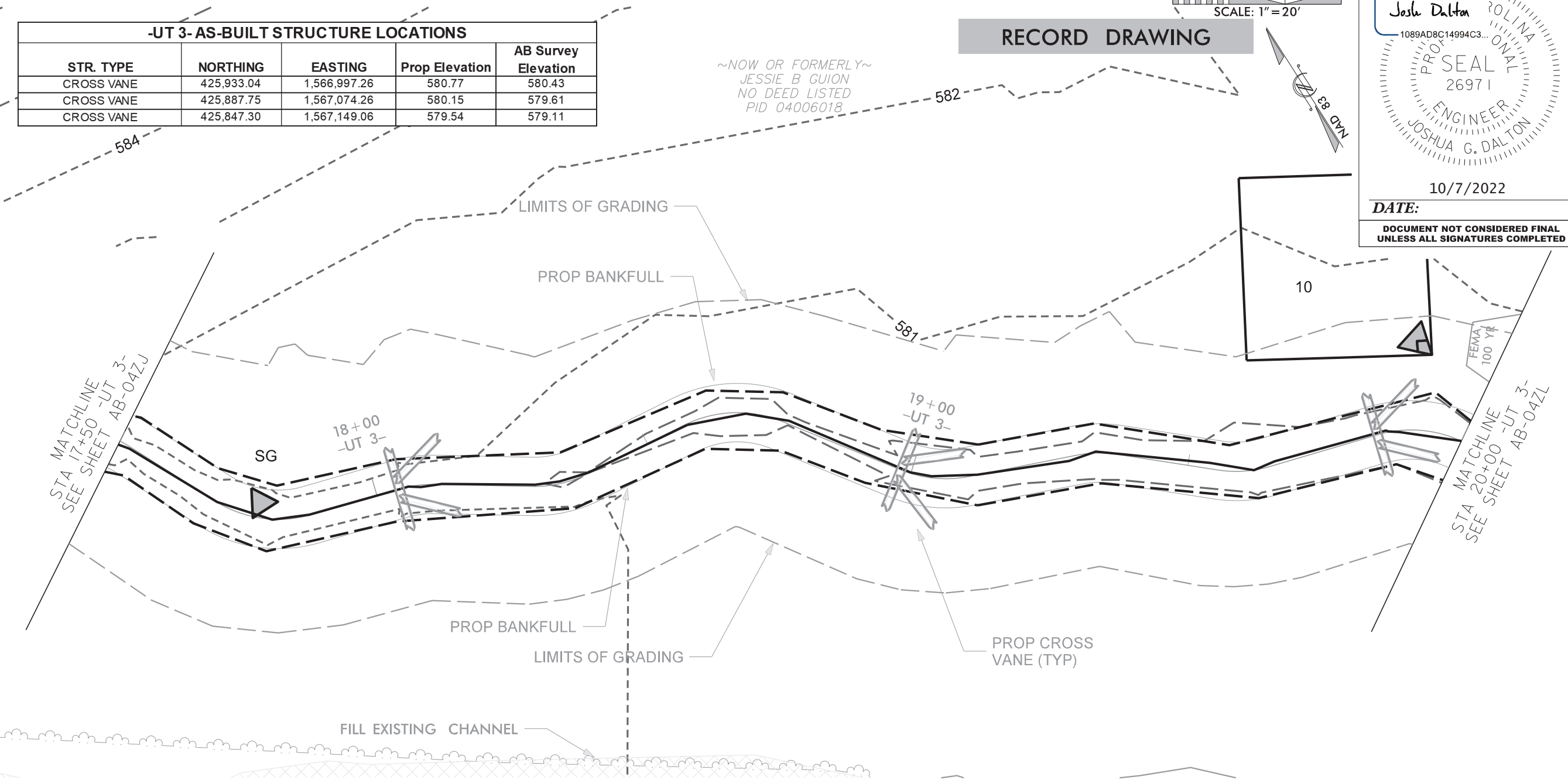
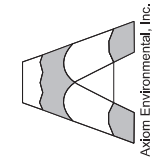
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UNION COUNTY, NC

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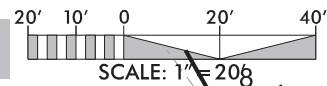
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DRAWING NAME: WITS END PSH AB-04ZK
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

SHEET NO.
AB-04ZK

-UT 3- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	425,718.00	1,567,191.31	578.94	578.79

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JESSIE B GUION
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PID 04006018

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Josh Dalton
1089AD8C14994C3...
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JOSHUA G. DALTON
26971
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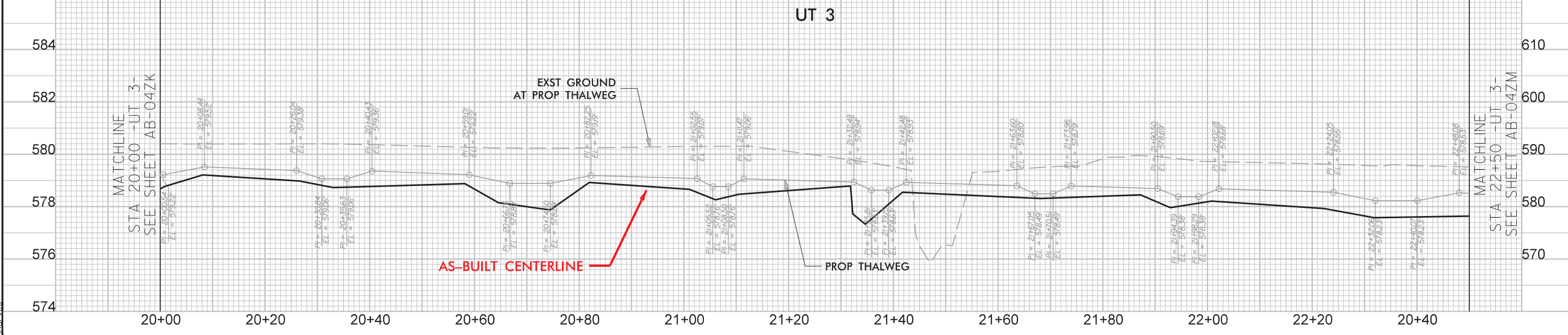
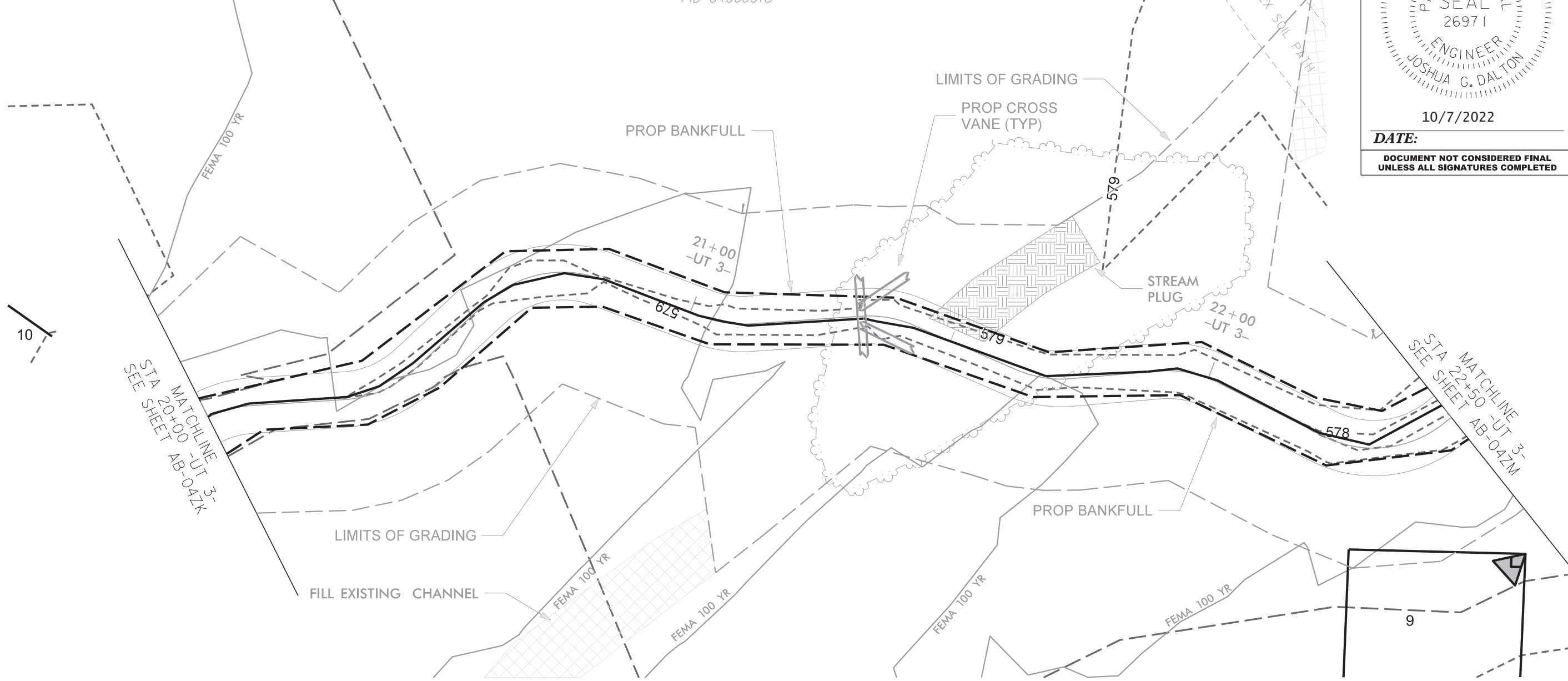
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WITS END
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AS-BUILT STRUCTURES

PROJECT # : 1221-20024
DRAWING NAME: WITS END PSH AB-04ZL
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

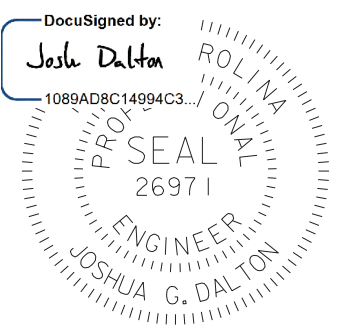
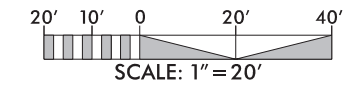
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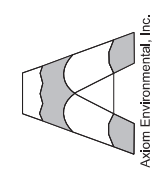
-UT 3- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	425,553.32	1,567,236.03	578.10	577.98



DATE: 10/7/2022

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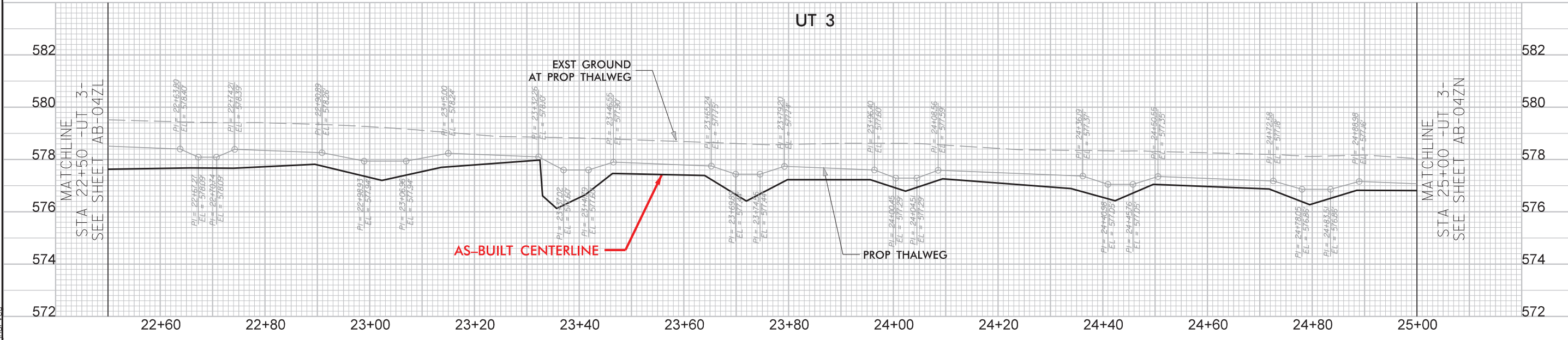
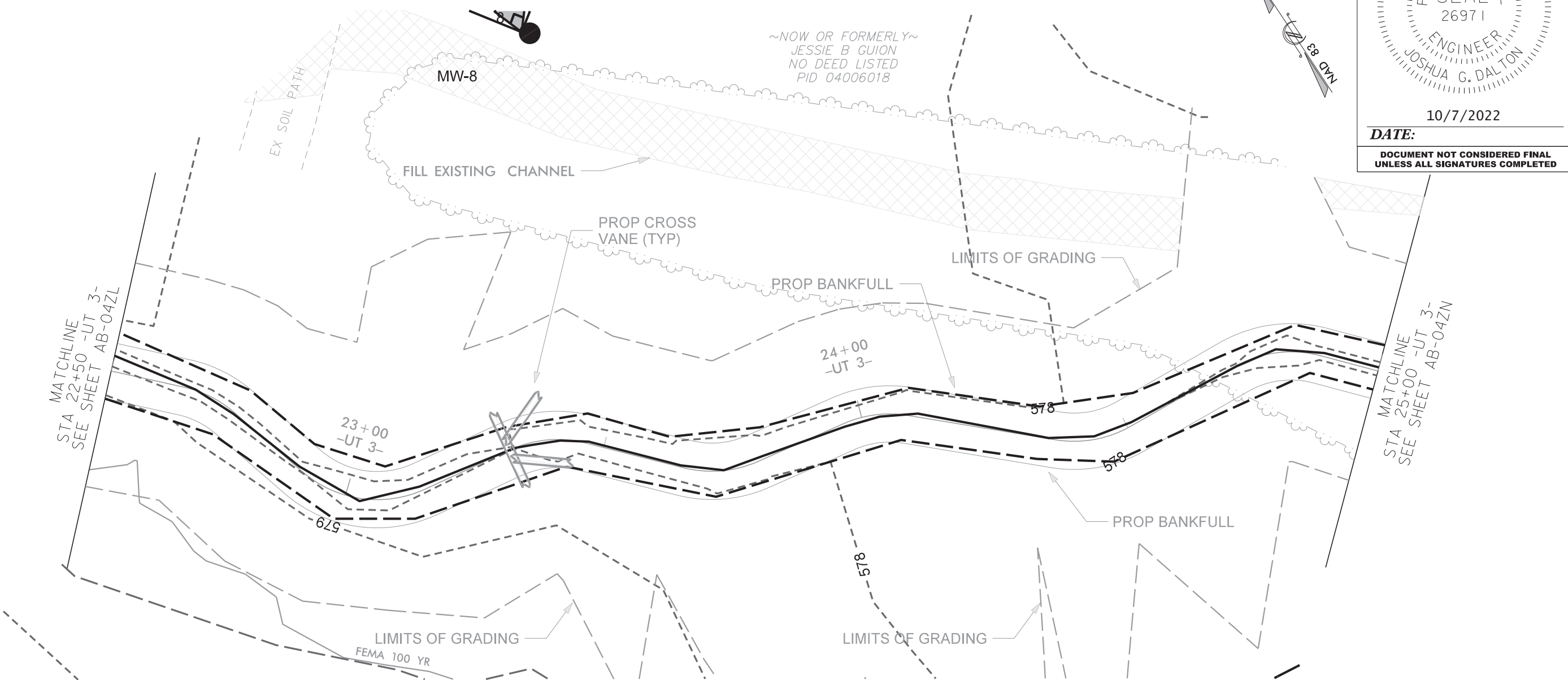


WITS END
 UNION COUNTY, NC

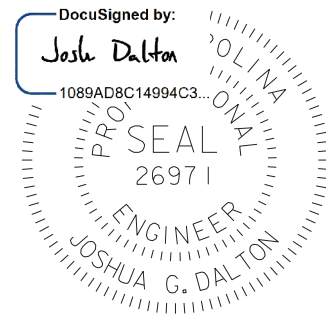
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 DATE: 2023
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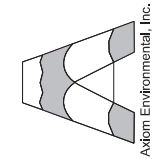
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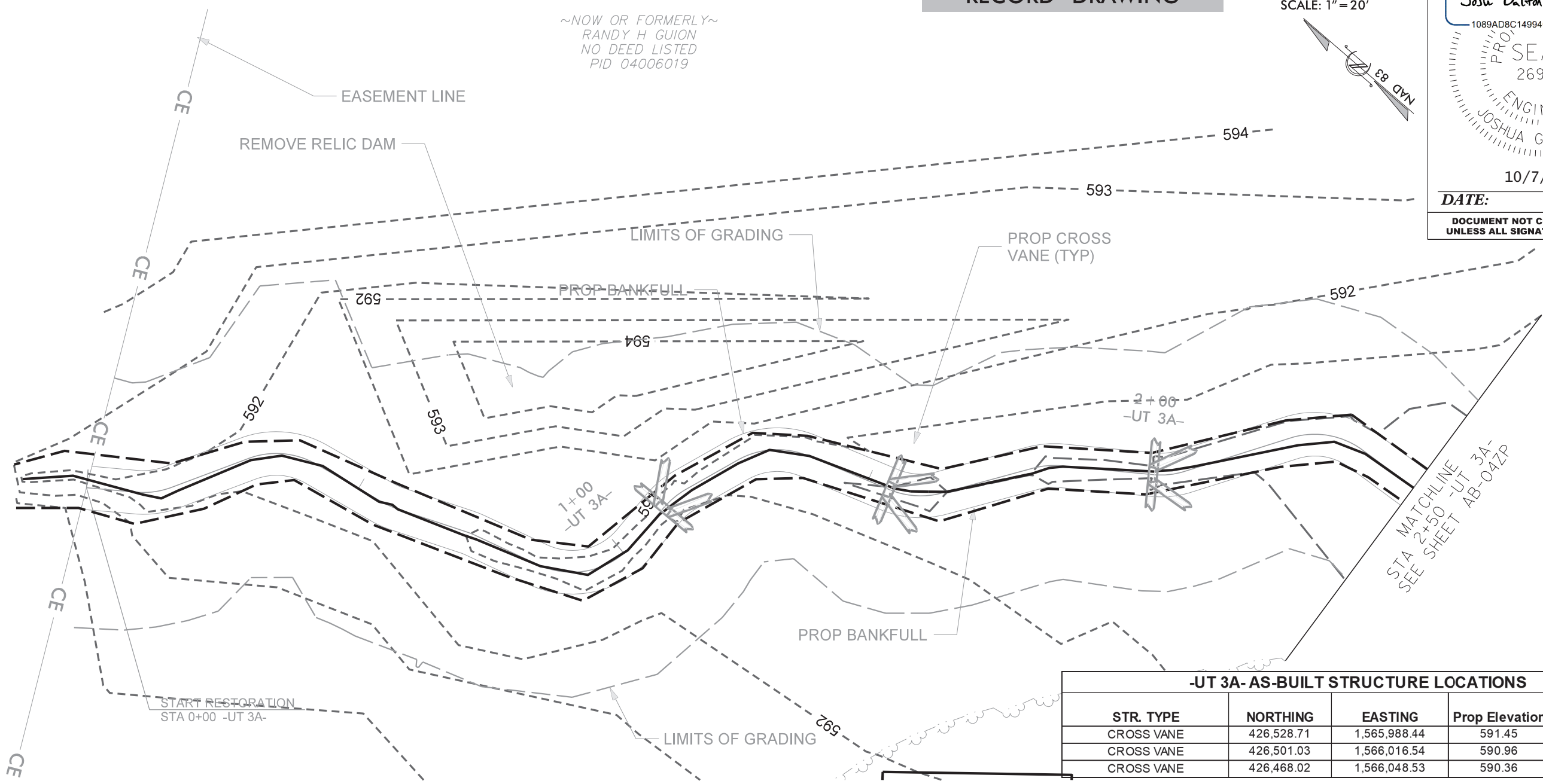
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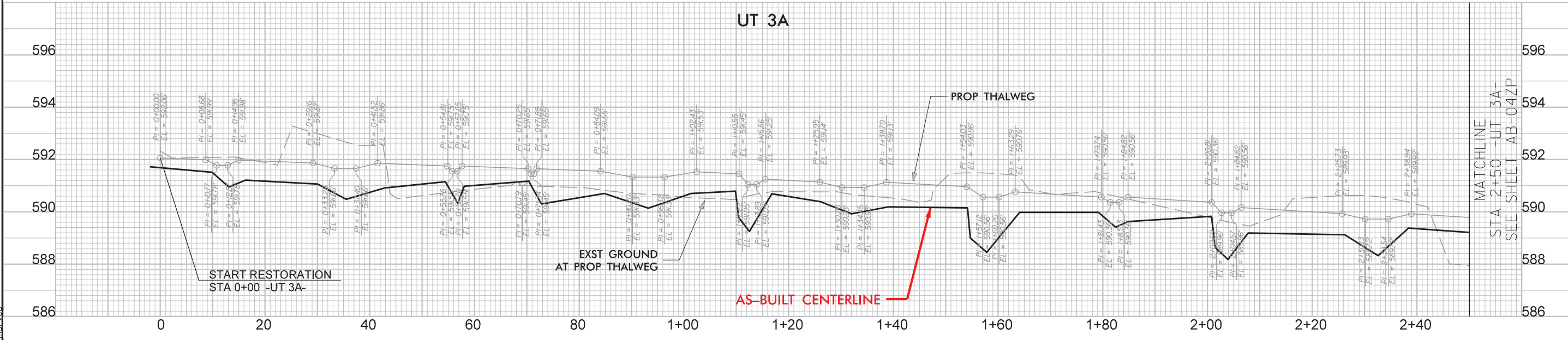
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954 GILES FARM LANE ROAD
CARY, NC 27513
TEL: (919) 855-2243
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~NOW OR FORMERLY~
RANDY H GUION
NO DEED LISTED
PID 04006019



STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,528.71	1,565,988.44	591.45	590.79
CROSS VANE	426,501.03	1,566,016.54	590.96	590.15
CROSS VANE	426,468.02	1,566,048.53	590.36	589.83



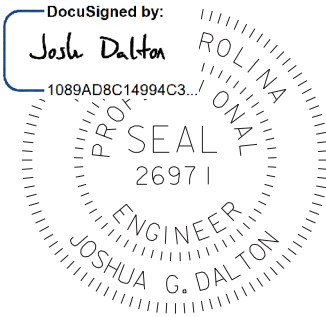
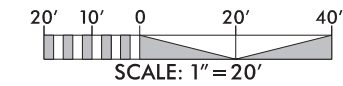
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WITS END
UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
DRAWING NAME: WITS END PSH AB-04ZO
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

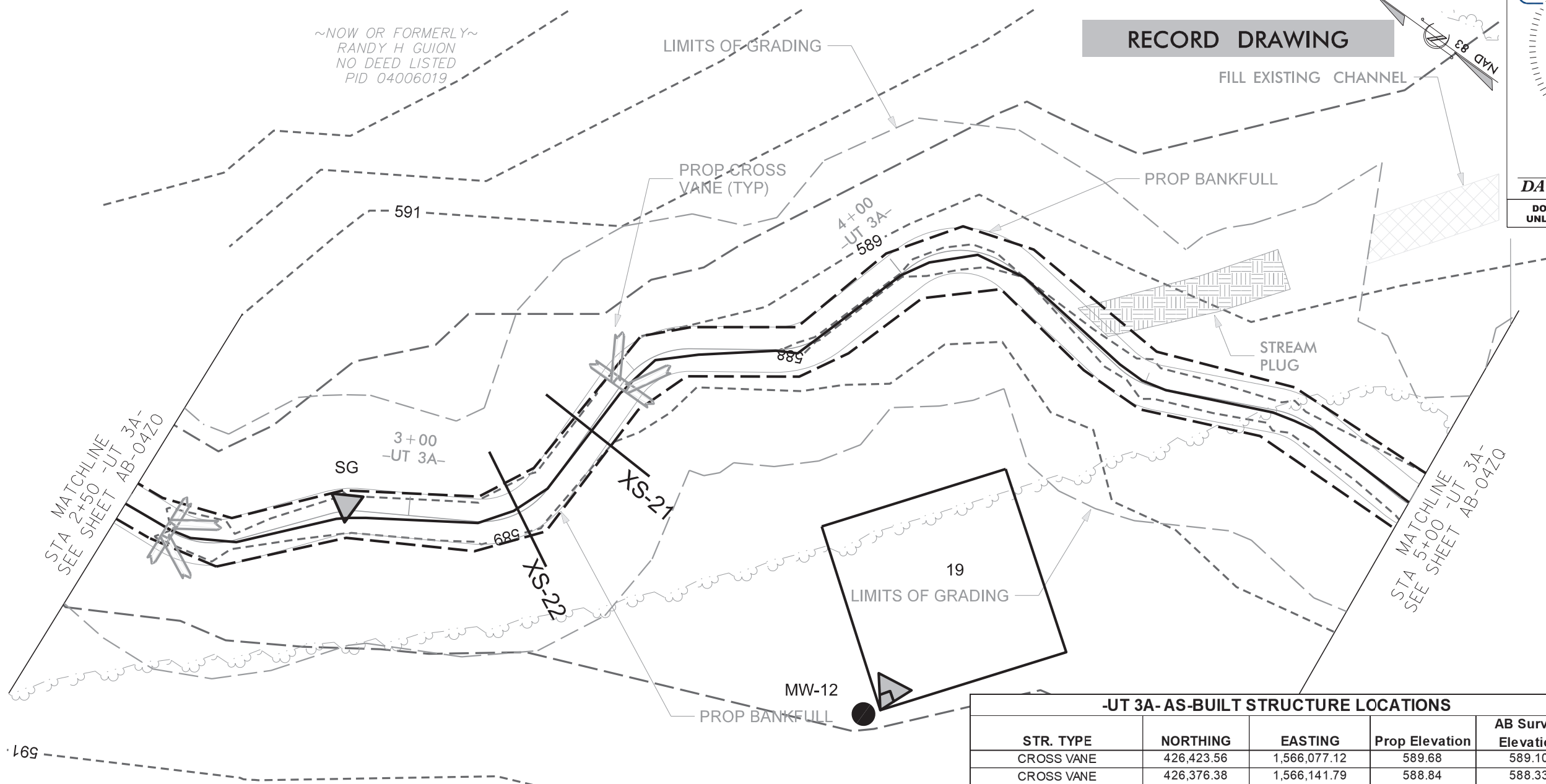
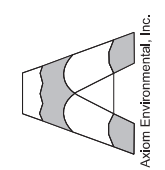
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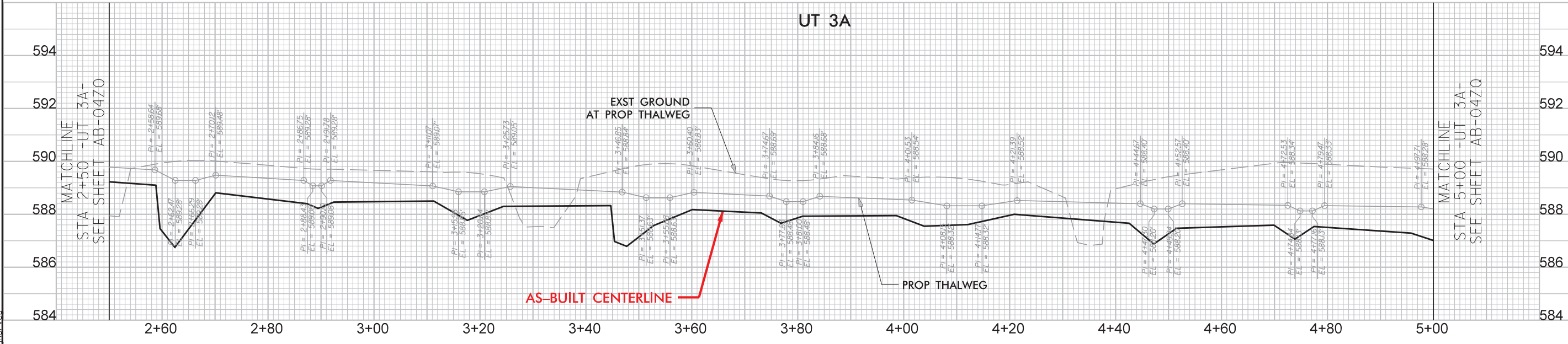
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Joshua Dalton
 1089AD8C14994C3...
DATE: 10/7/2022
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 890 GOLF COURSE ROAD
 SUITE 100
 WILSON, NC 27606
 TEL: (919) 855-2243
 ENG. FIRM LICENSE NO. C-980



-UT 3A- AS-BUILT STRUCTURE LOCATIONS

STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,423.56	1,566,077.12	589.68	589.10
CROSS VANE	426,376.38	1,566,141.79	588.84	588.33



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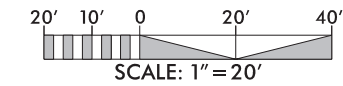
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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

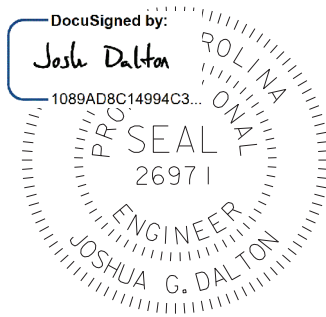
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 DATE: 2022
 DRAWN BY: JRH
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 REVISIONS:

SHEET NO.
AB-04ZP

-UT 3A- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	426,224.68	1,566,278.15	587.98	
CROSS VANE	426,208.24	1,566,329.44	587.38	
CROSS VANE	426,184.00	1,566,396.66	586.57	



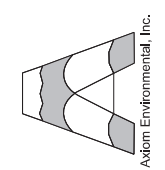
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 DATE: 10/7/2022

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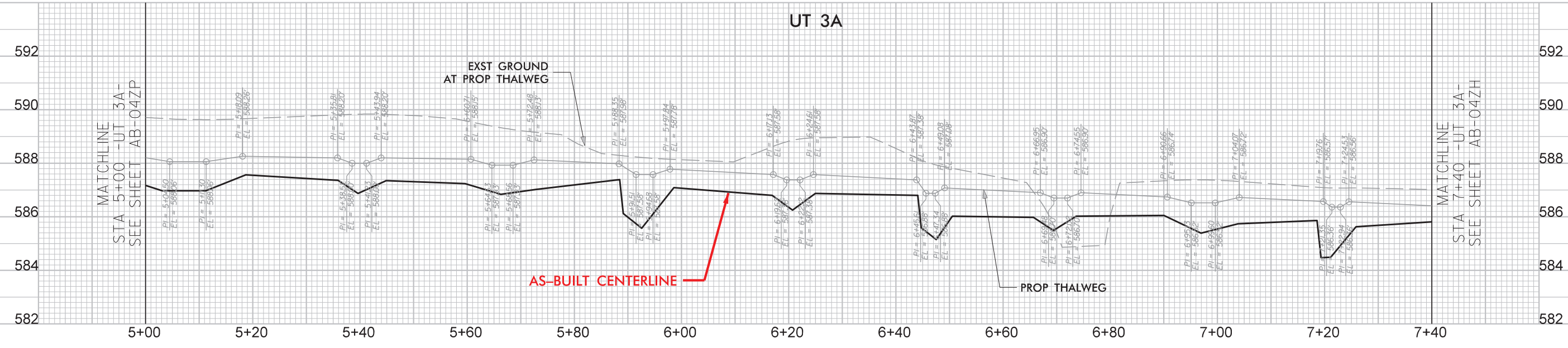
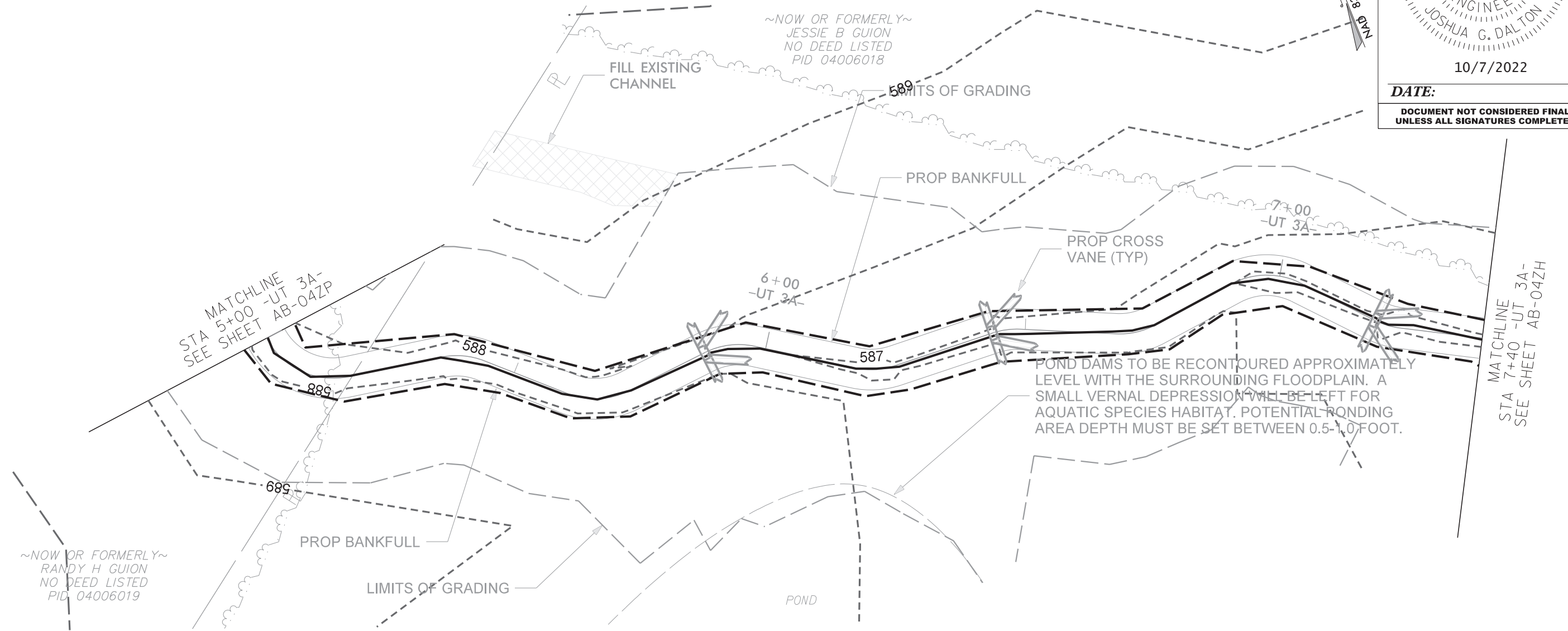
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WITS END
 UNION COUNTY, NC

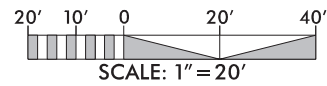
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
 DRAWING NAME: WITS END PSH AB-04ZQ
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
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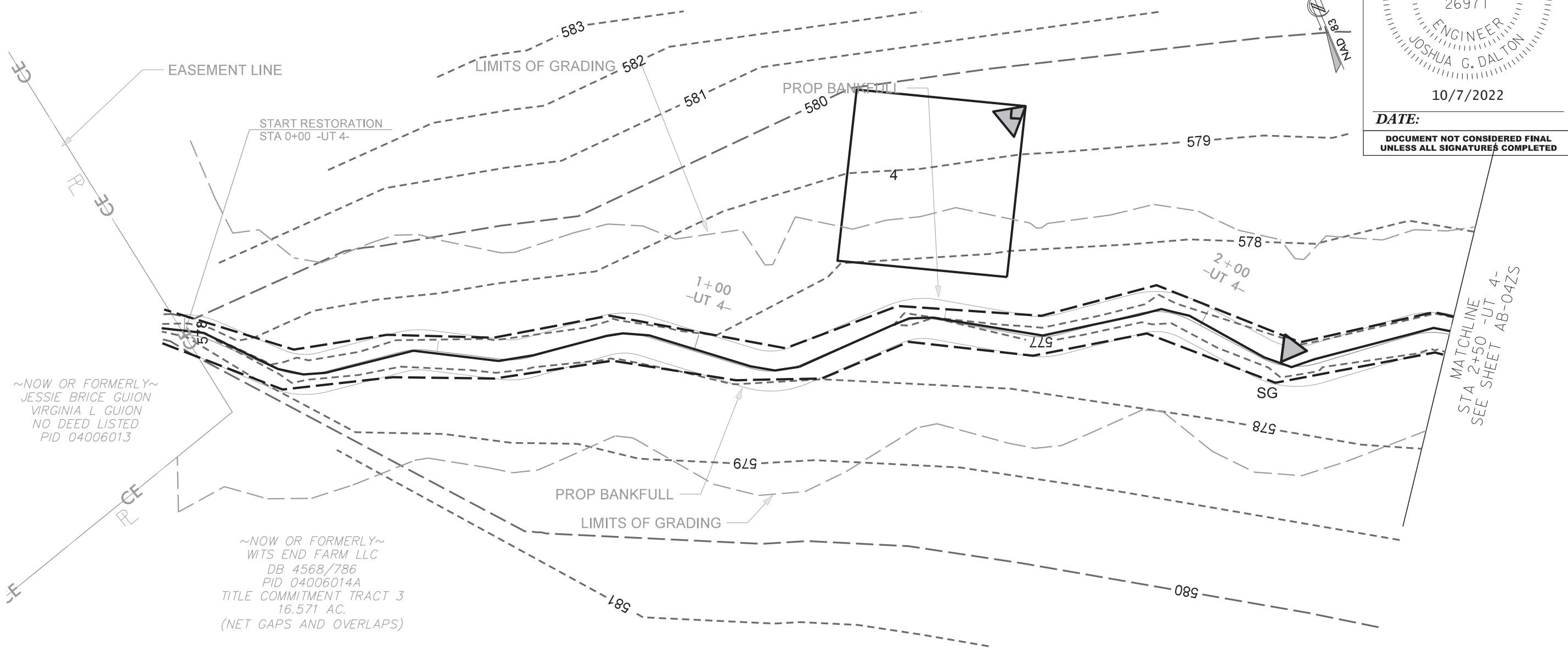
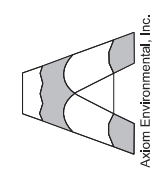


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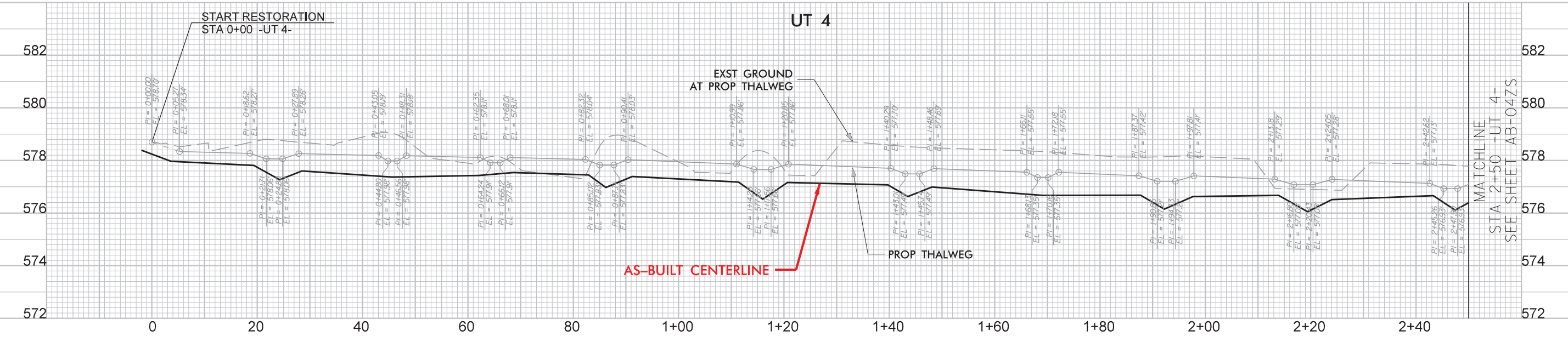
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PID 04006013

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WITS END FARM LLC
DB 4568/786
PID 04006014A
TITLE COMMITMENT TRACT 3
16.571 AC.
(NET GAPS AND OVERLAPS)



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Wits_End_psh_AB-04ZR.dgn

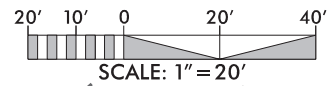
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WITS END
 UNION COUNTY, NC
AB-BUILT STRUCTURES

PROJECT # :	1221-20024
DRAWING NAME:	WITS END PSH AB-04ZR
DATE:	2022
DRAWN BY:	JRH
REVIEWED BY:	JGD
REVISIONS:	
SHEET NO.	AB-04ZR

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 DB 4568/786
 PID 04006014A
 TITLE COMMITMENT TRACT 3
 16.571 AC.
 (NET GAPS AND OVERLAPS)

-UT 4- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	424,902.42	1,567,165.98	576.56	576.33
CROSS VANE	424,868.14	1,567,271.60	575.65	575.31



SCALE: 1" = 20'

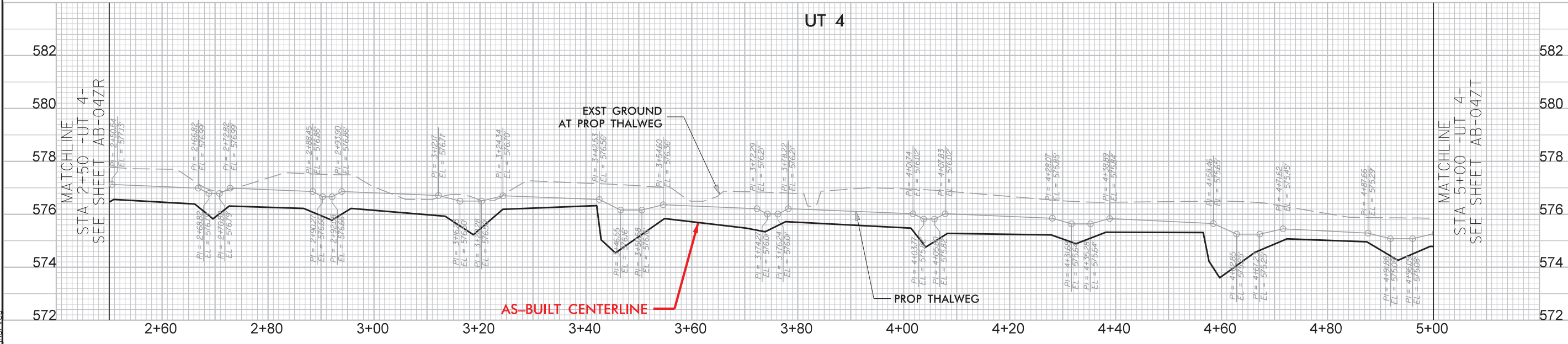
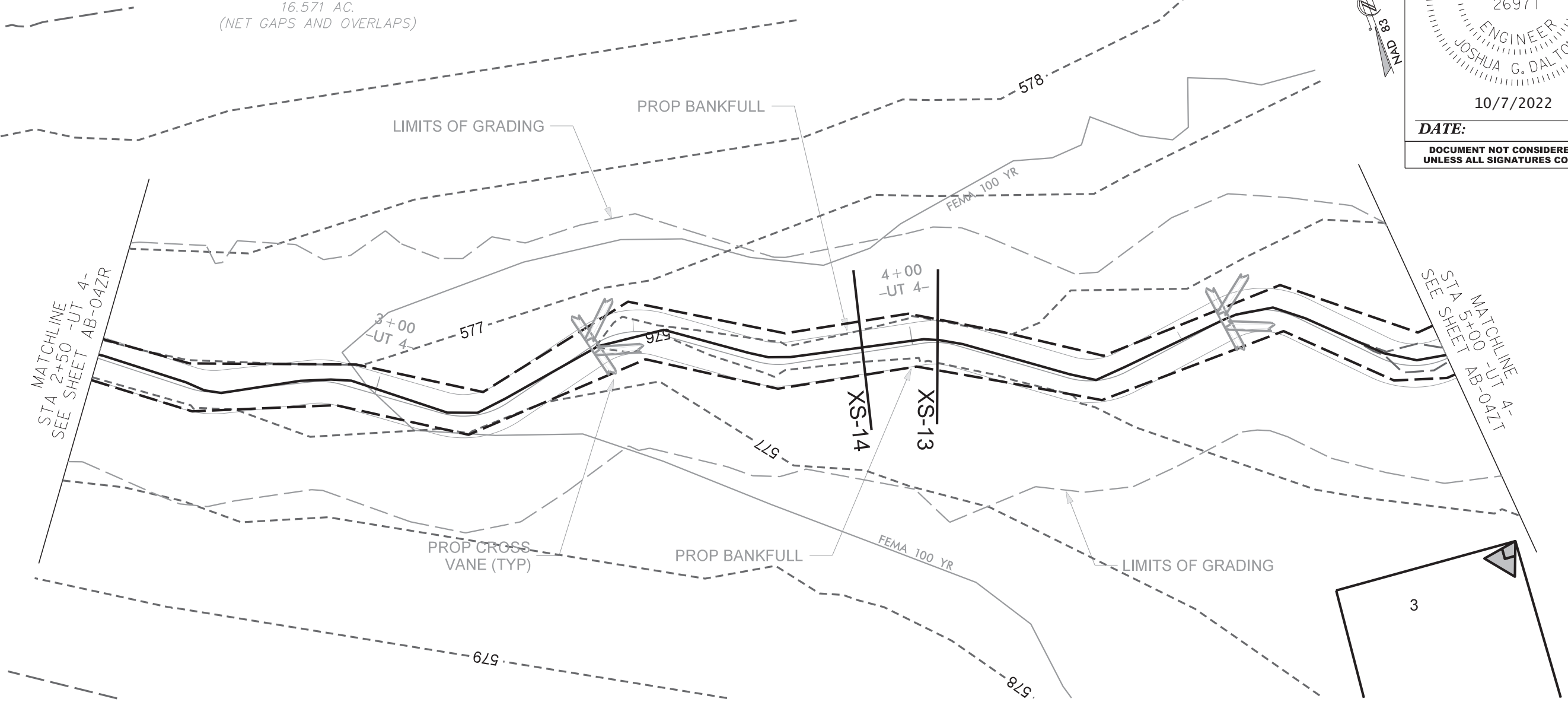
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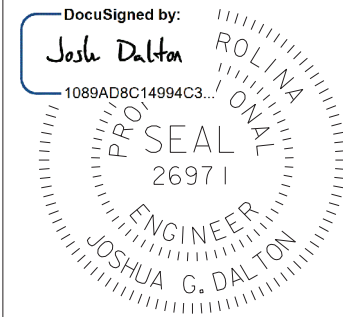
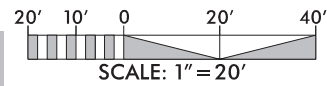
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WITS END
 UNION COUNTY, NC
AS-BUILT STRUCTURES

PROJECT # :	1221-20024
DRAWING NAME:	WITS END PSH AB-04ZS
DATE:	2022
DRAWN BY:	JRH
REVIEWED BY:	JGD
REVISIONS:	
SHEET NO.	AB-04ZS

-UT 4- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	424,835.97	1,567,353.84	574.84	574.53
CROSS VANE	424,831.26	1,567,431.61	574.29	573.96
CROSS VANE	424,787.58	1,567,506.58	573.70	573.22

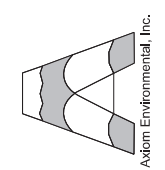
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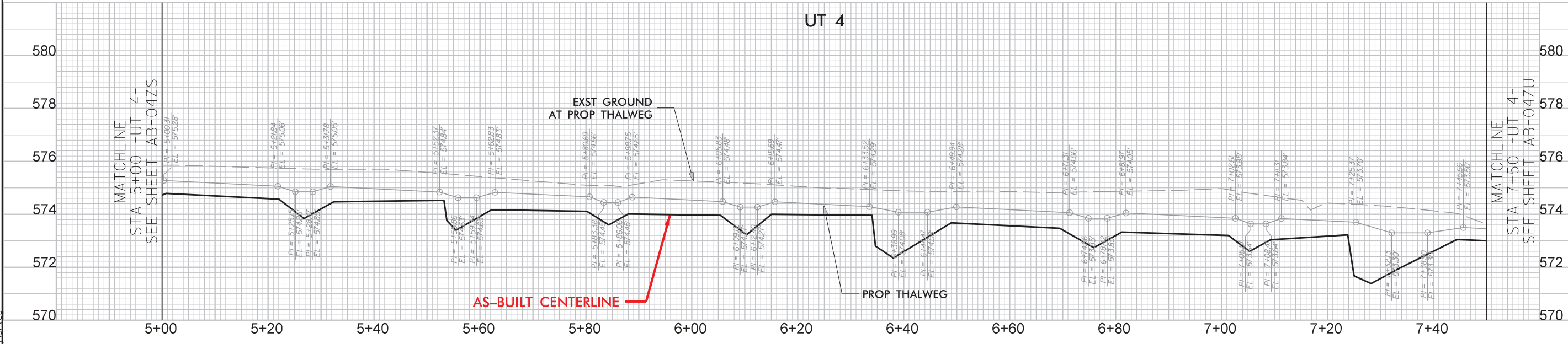
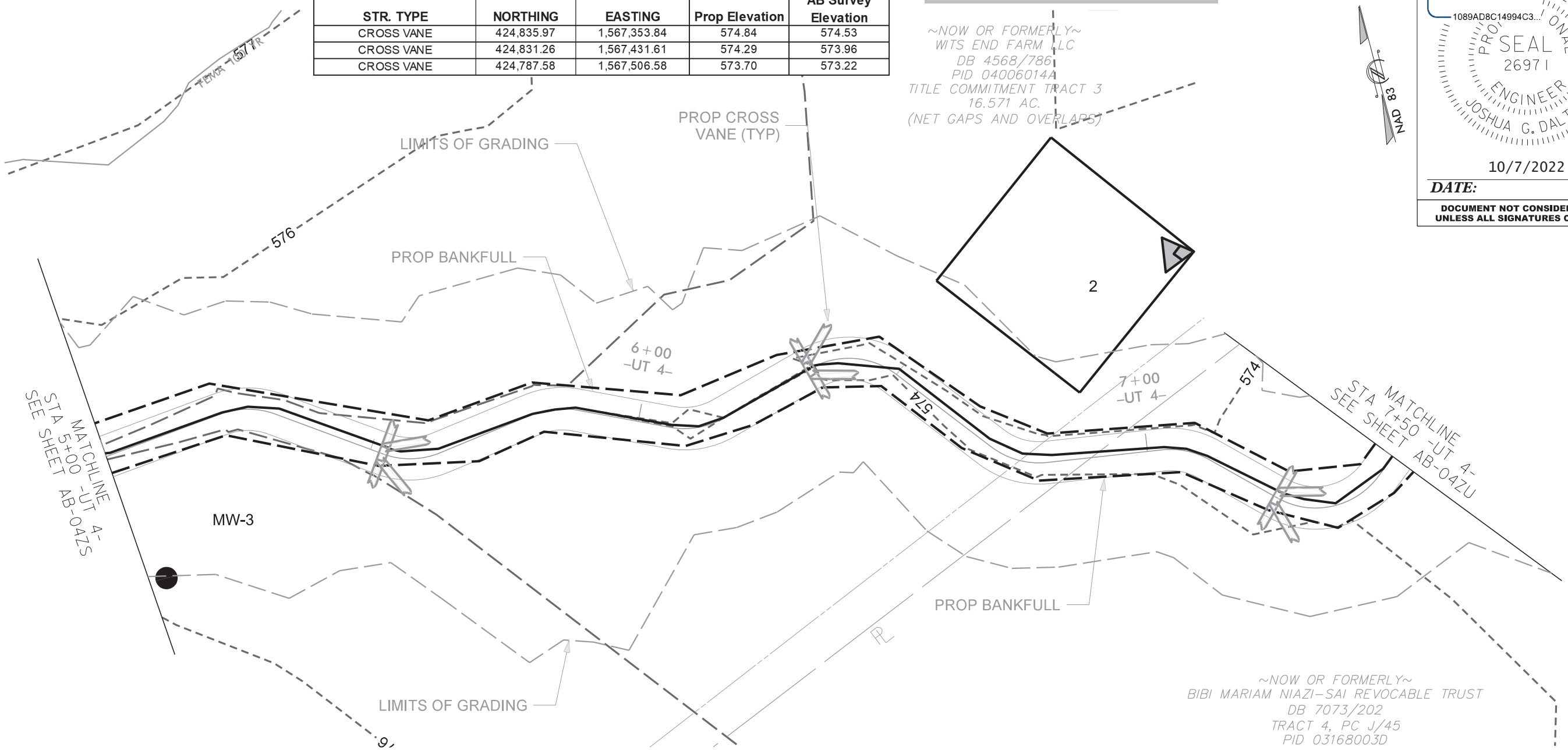
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PID 04006014A
TITLE COMMITMENT TRACT 3
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DB 7073/202
TRACT 4, PC J/45
PID 03168003D



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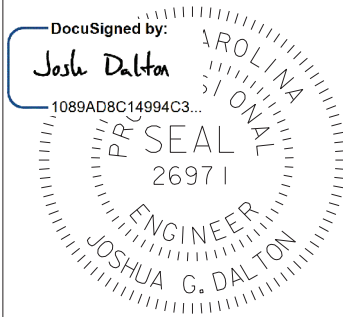
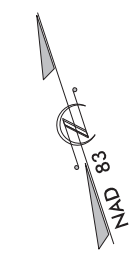
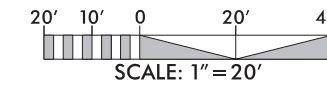
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DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

SHEET NO. **AB-04ZT**

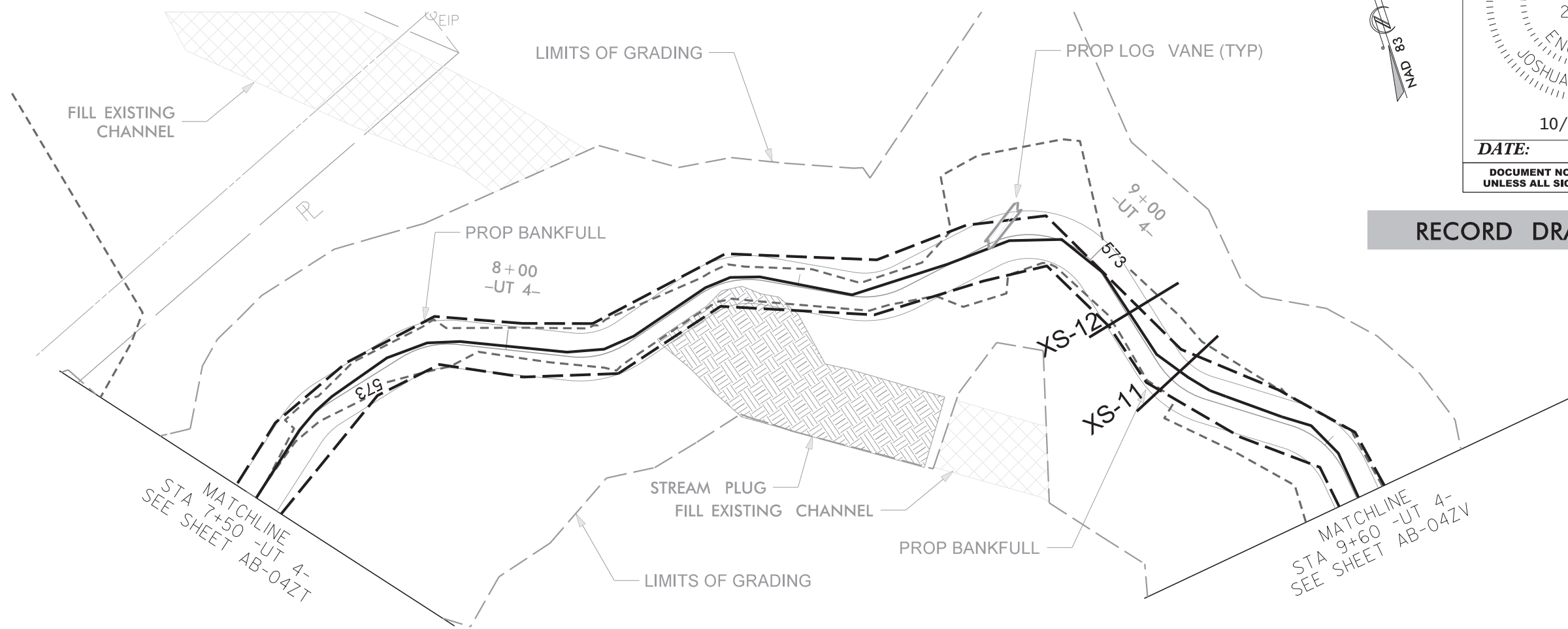
WITS END
UNION COUNTY, NC
AS-BUILT STRUCTURES

-UT 4- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
LOG VANE	424,791.43	1,567,652.04	572.87	572.47

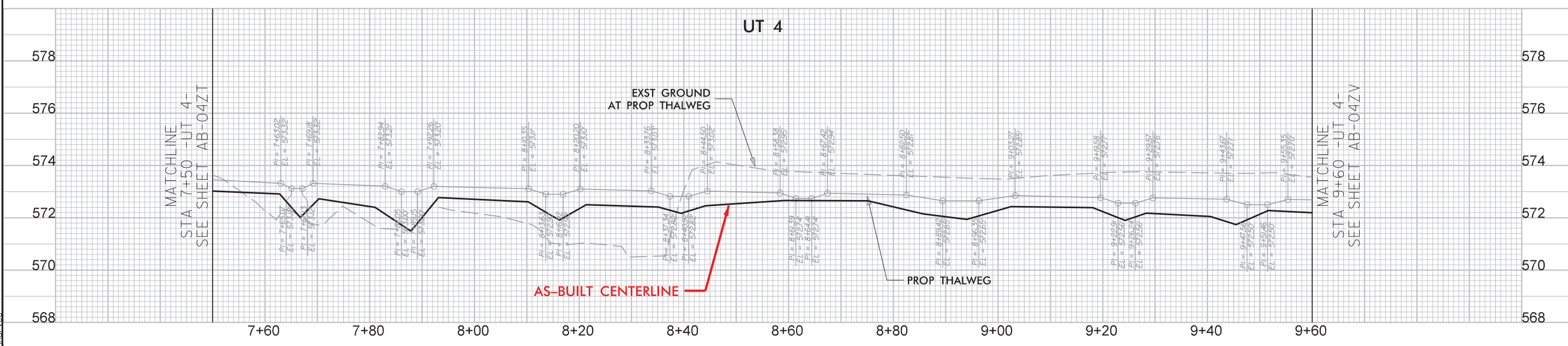


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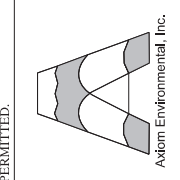


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 TRACT 4, PC J/45
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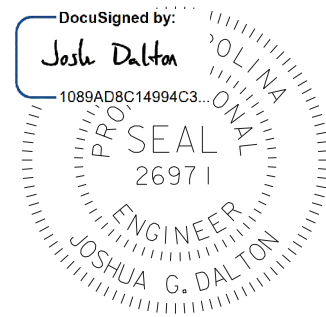
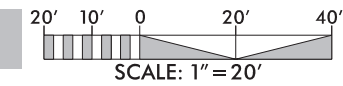
WITS END
 UNION COUNTY, NC

AS-BUILT STRUCTURES

PROJECT # : 1221-20024
 DRAWING NAME: WITS END PSH AB-04ZU
 DATE: 2022
 DRAWN BY: JRH
 REVIEWED BY: JGD
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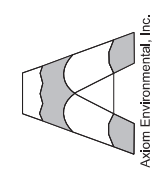
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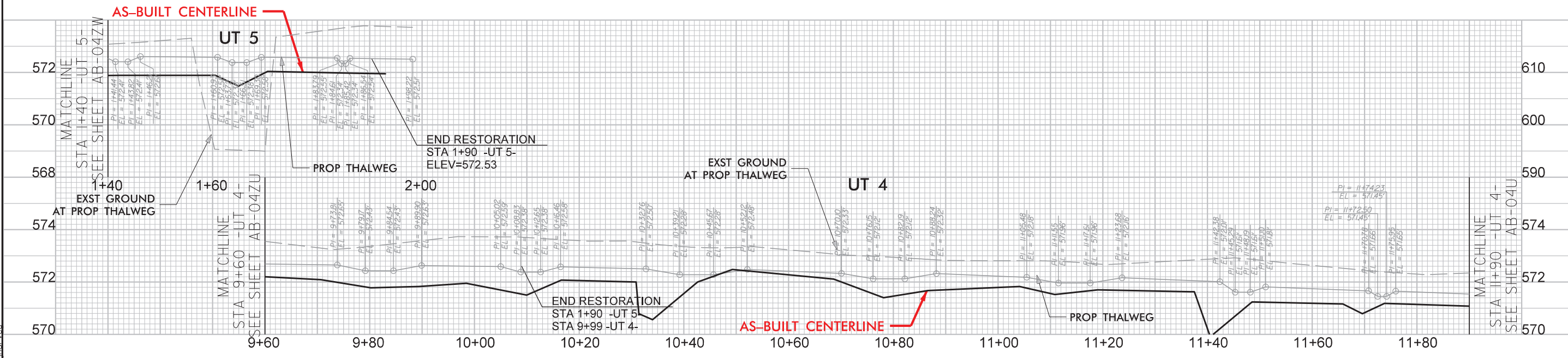
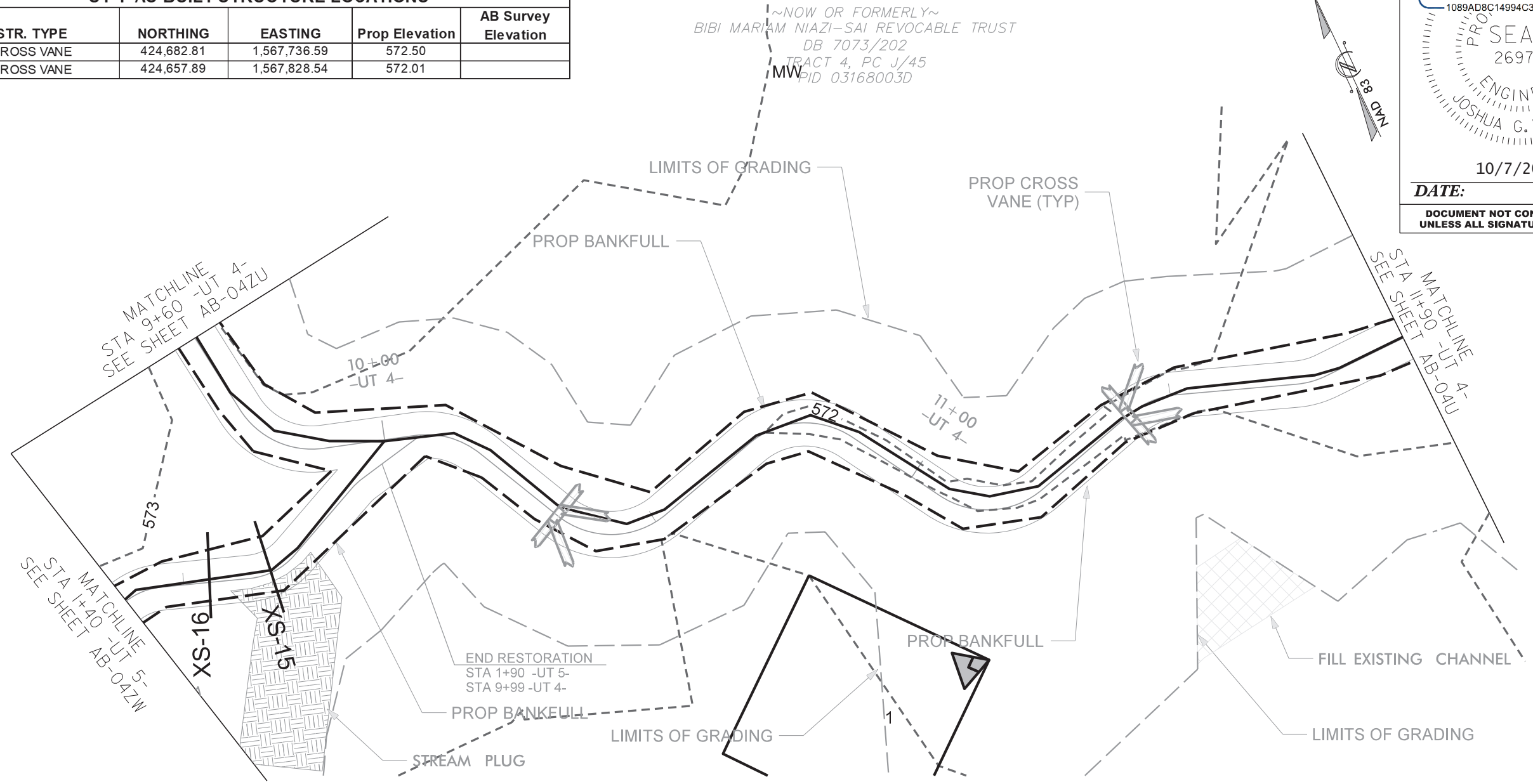
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ENG. FIRM LICENSE NO. C-890



-UT 4- AS-BUILT STRUCTURE LOCATIONS				
STR. TYPE	NORTHING	EASTING	Prop Elevation	AB Survey Elevation
CROSS VANE	424,682.81	1,567,736.59	572.50	
CROSS VANE	424,657.89	1,567,828.54	572.01	



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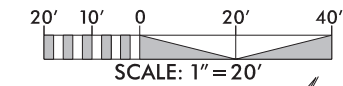
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UNION COUNTY, NC

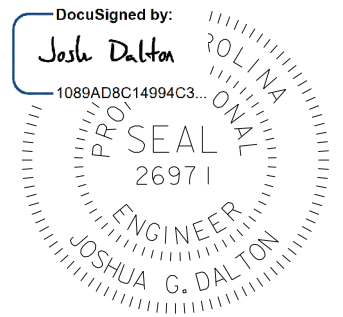
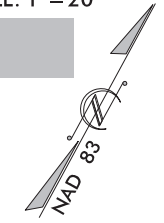
AS-BUILT STRUCTURES

PROJECT #: 1221-20024
DRAWING NAME: WITS END PSH AB-04ZV
DATE: 2022
DRAWN BY: JRH
REVIEWED BY: JGD
REVISIONS:

SHEET NO.
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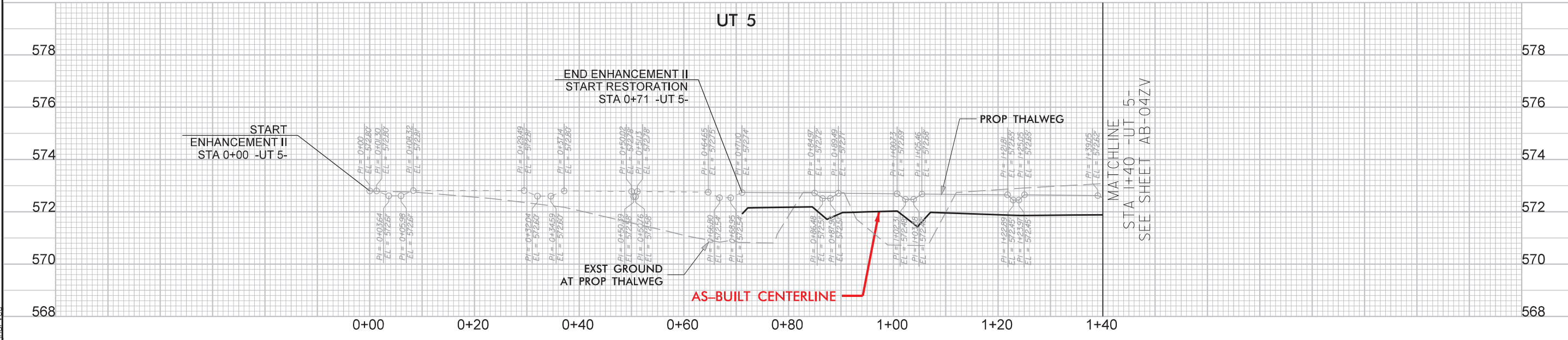
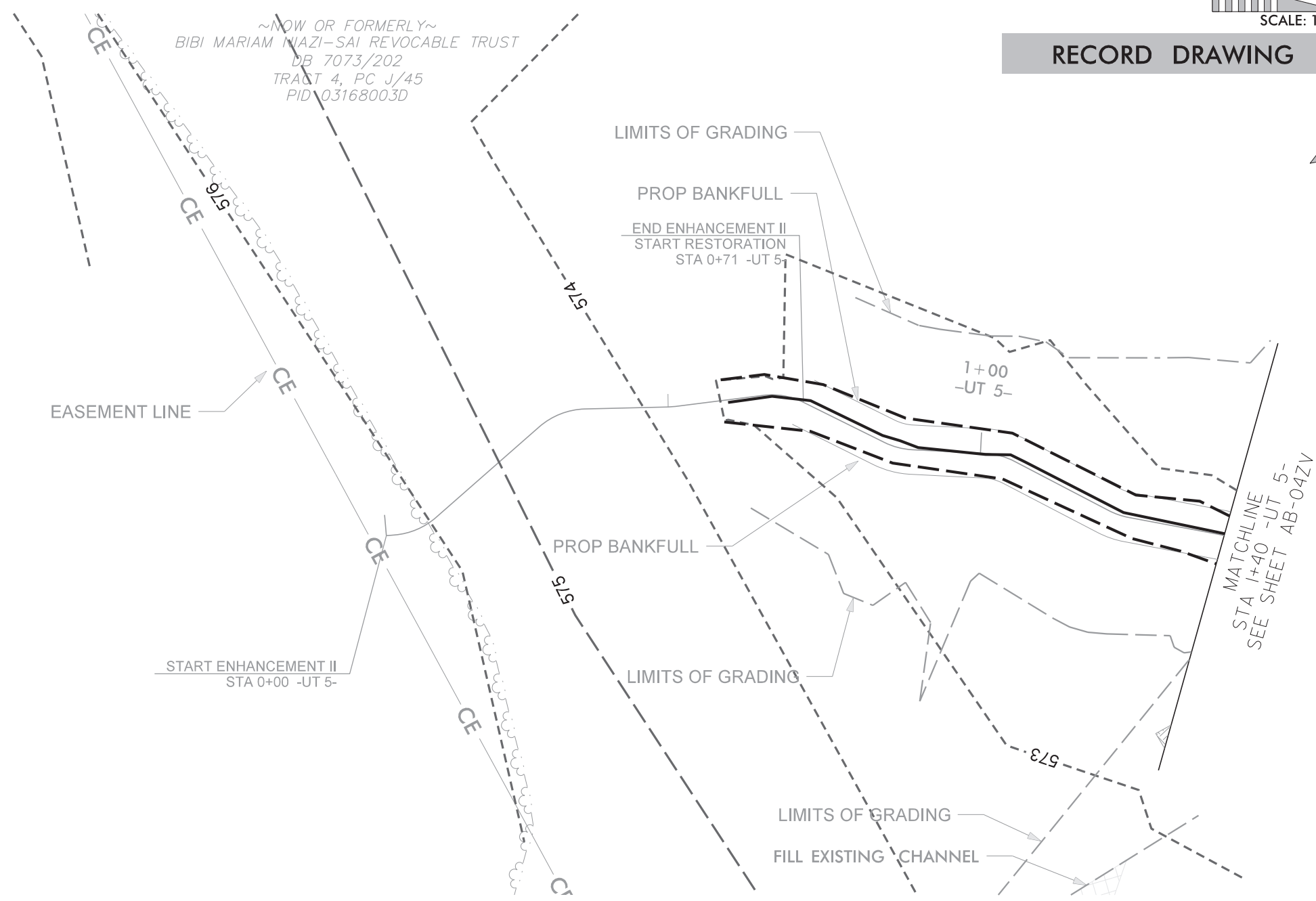
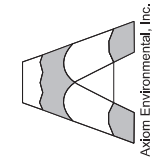
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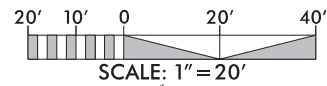
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 JOSHUA G. DALTON

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AS-BUILT STRUCTURES

PROJECT # :
1221-20024

DRAWING NAME:
WITS END PSH AB-04ZX

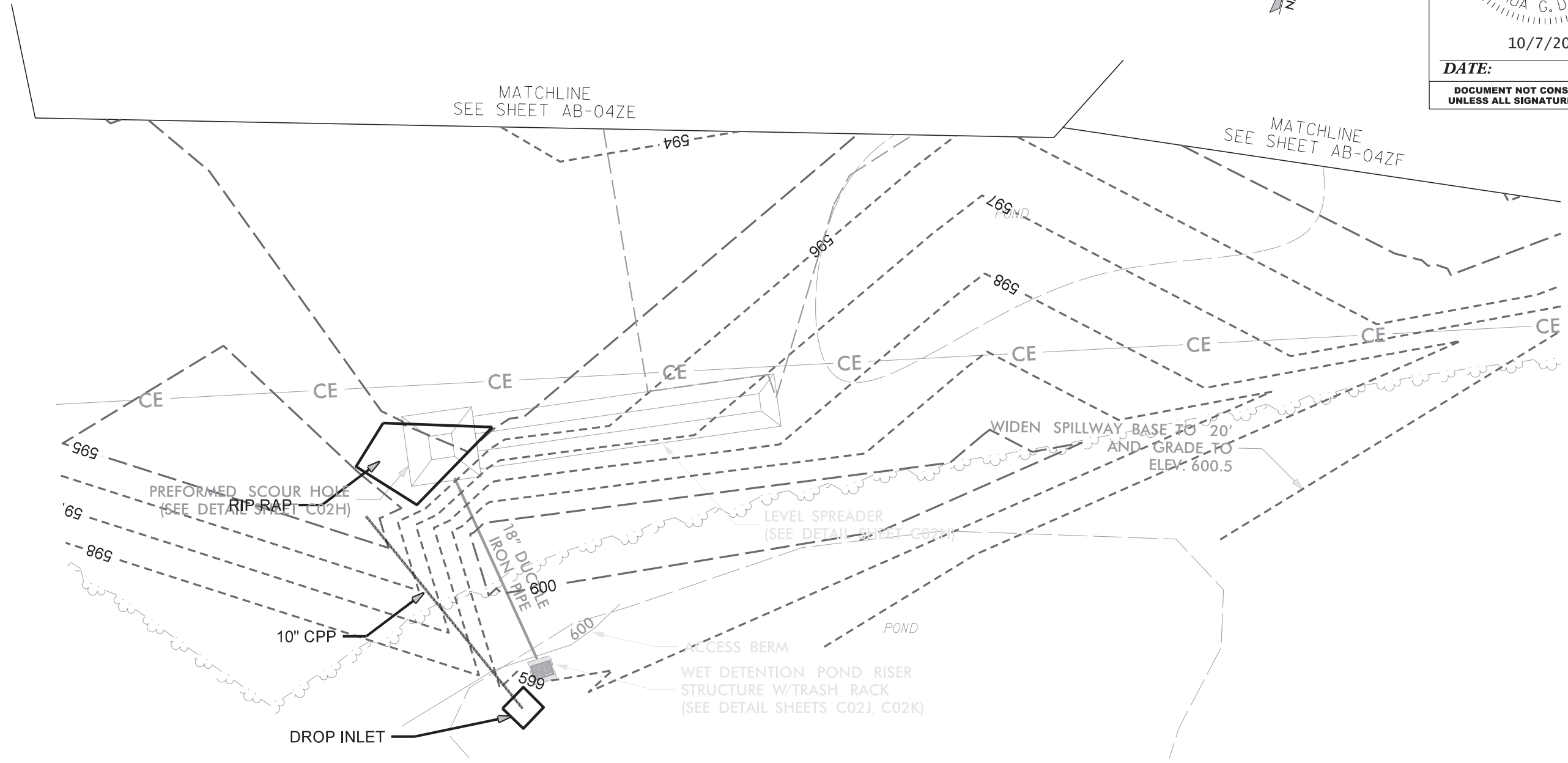
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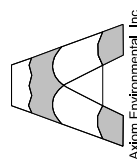
DESIGN PLANT LIST

Vegetation Association	Piedmont/Mountain Bottomland Forest*		Dry-Mesic Oak-Hickory Forest*		Stream-side Assemblage**		TOTAL
Area (acres)	7.2		5		3.8		16
Species	# planted*	% of total	# planted*	% of total	# planted**	% of total	# planted
River birch (<i>Betula nigra</i>)	245	5	--	--	1550	15	1795
Bittemut hickory (<i>Carya cordiformis</i>)	490	10	--	--	--	--	490
American elm (<i>Ulmus americana</i>)	245	5	170	5	--	--	415
Red bud (<i>Cercis canadensis</i>)	--	--	510	15	--	--	510
Silky dogwood (<i>Cornus amomum</i>)	245	5	--	--	2067	20	2312
Persimmon (<i>Diospyros virginiana</i>)	--	--	510	15	--	--	510
Hackberry (<i>Celtis occidentalis</i>)	490	10	--	--	517	5	1006
Green ash (<i>Fraxinus pennsylvanica</i>)	245	5	--	--	517	5	762
Tulip poplar (<i>Liriodendron tulipifera</i>)	245	5	170	5	517	5	932
Sycamore (<i>Platanus occidentalis</i>)	245	5	170	5	1550	15	1965
Red mulberry (<i>Morus rubra</i>)	--	--	170	5	517	5	687
Water oak (<i>Quercus nigra</i>)	734	15	680	20	--	--	1414
White oak (<i>Quercus alba</i>)	490	10	680	20	1034	10	2203
Red oak (<i>Quercus rubra</i>)	--	--	340	10	--	--	340
Black gum (<i>Nyssa sylvatica</i>)	490	10	--	--	1034	10	1523
Willow oak (<i>Quercus phellos</i>)	245	5	--	--	1034	10	1278
Shumard oak (<i>Quercus shumardii</i>)	490	10	--	--	--	--	490
TOTAL	4896	100	3400	100	10336	100	18632
* Planted at a density of 680 stems/acre.							
** Planted at a density of 2720 stems/acre.							

AS-BUILT PLANT LIST

Table 6A. Planted Woody Vegetation
Wits End Stream and Wetland Mitigation Site

Bare-Root Planting		
Species	Total	Percent
Acres	58	%
American Elm (<i>Ulmus americana</i>)	3,000	4.0
American Holly (<i>Ilex opaca</i>)	2,220	2.9
Birch River (<i>Betula nigra</i>)	6,300	8.3
Black Gum (<i>Nyssa sylvatica</i>)	5,049	6.7
Hackberry (<i>Celtis occidentalis</i>)	2,900	3.8
Hickory Mockernut (<i>Carya tomentosa</i>)	1,500	2.0
Hickory Shagbark (<i>Carya ovata</i>)	3,500	4.6
Oak Red (<i>Quercus rubra</i>)	4,000	5.3
Oak Swamp Chestnut (<i>Quercus michauxii</i>)	1,700	2.2
Oak Water (<i>Quercus nigra</i>)	12,200	16.1
Oak White (<i>Quercus alba</i>)	4,850	6.4
Oak Willow (<i>Quercus phellos</i>)	1,400	1.8
Persimmon (<i>Diospyros virginiana</i>)	4,250	5.6
Red Bud (<i>Cercis canadensis</i>)	1,900	2.5
Silky Dogwood (<i>Cornus amomum</i>)	7,550	10.0
Sycamore (<i>Platanus occidentalis</i>)	7,900	10.4
Tulip Poplar (<i>Liriodendron tulipifera</i>)	5,050	6.7
Tupelo Gum (<i>Nyssa aquatica</i>)	500	0.7
TOTALS	75,769	100
Average Stems/Acre	1306	
1-Gallon Containerized Planting		
Species	Total	Percent
Acres	1.5	%
American Elm (<i>Ulmus americana</i>)	40	7.7
Birch River (<i>Betula nigra</i>)	40	7.7
Black Gum (<i>Nyssa sylvatica</i>)	70	13.5
Oak Red (<i>Quercus rubra</i>)	60	11.5
Oak Water (<i>Quercus nigra</i>)	90	17.3
Oak White (<i>Quercus alba</i>)	90	17.3
Red Bud (<i>Cercis canadensis</i>)	60	11.5
Sycamore (<i>Platanus occidentalis</i>)	30	5.8
Tulip Poplar (<i>Liriodendron tulipifera</i>)	40	7.7
TOTALS	520	100
Average Stems/Acre	347	



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**WITS END
UNION COUNTY, NC
AS-BUILT PLANTING LIST**

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1221-20024
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2021
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JGD
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