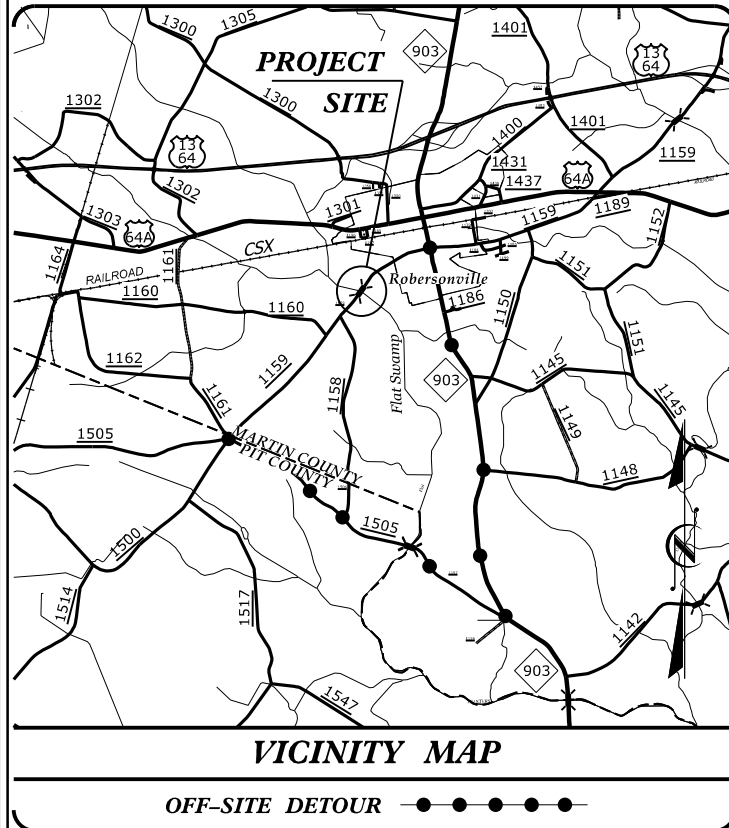


PROJECT: 17BP.1.R.86

CONTRACT:

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



PRELIMINARY PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MARTIN COUNTY

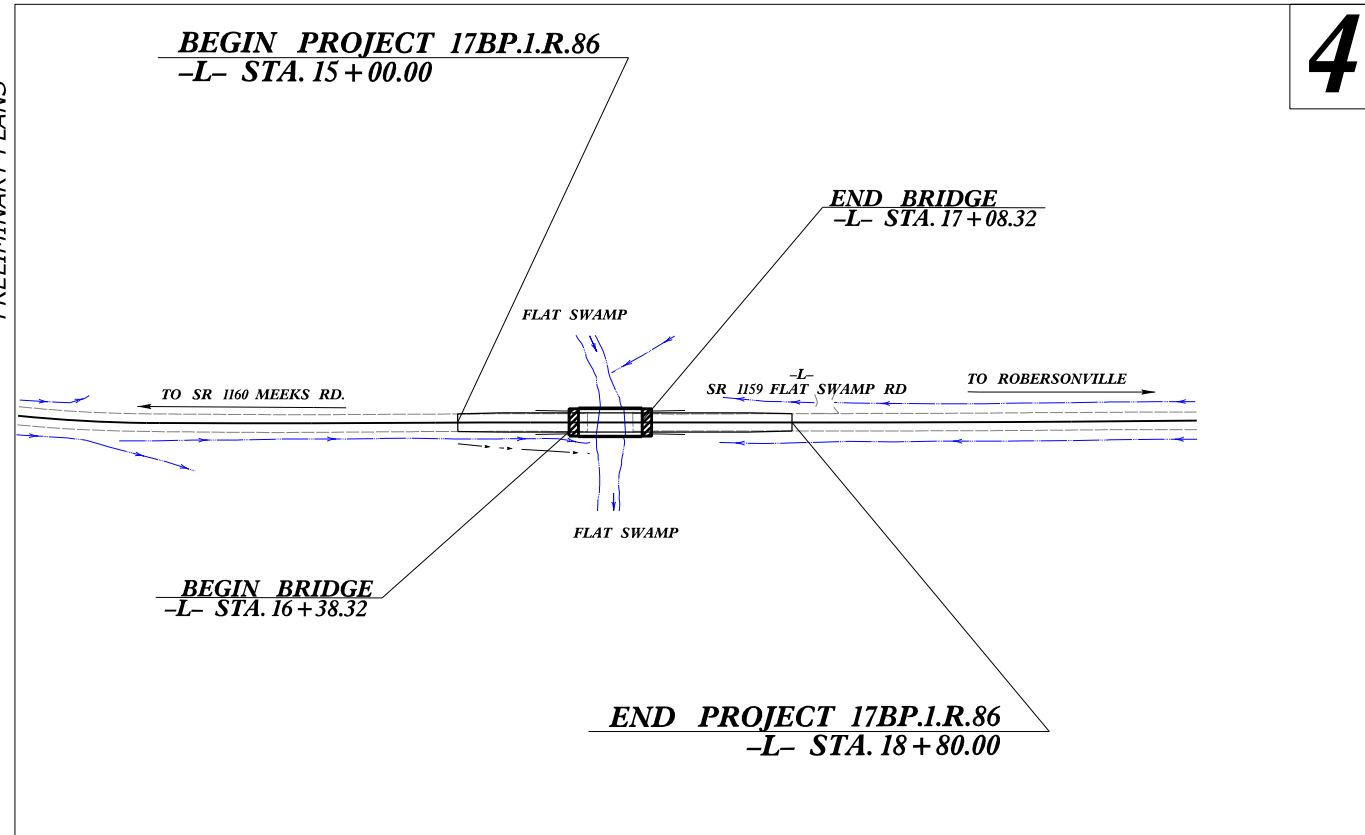
LOCATION: BRIDGE No. 71 OVER FLAT SWAMP ON SR 1159

TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES.

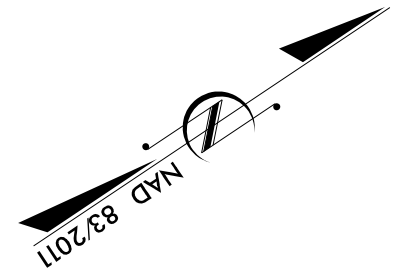
WETLAND AND SURFACE WATER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.1.R.86	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.1.R.86		PE	

**PERMIT DRAWING
SHEET 1 OF 4**



4

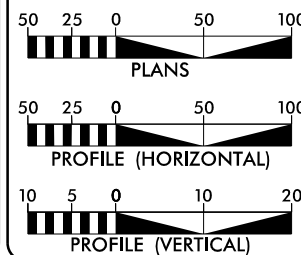


NOTE: NO DECK DRAINS ON BRIDGE

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2015 = 1,100
ADT =
K = %
D = %
T = % *
V = 60 MPH
* TTST = % DUAL = %
FUNC. CLASS = LOCAL
(Subregional Tier)

PROJECT LENGTH

LENGTH ROADWAY PROJECT 17BP.1.R.86 = 0.058 MILES
LENGTH STRUCTURE PROJECT 17BP.1.R.86 = 0.014 MILES
TOTAL LENGTH PROJECT 17BP.1.R.86 = 0.072 MILES

Prepared in the Office of:
ETHERILL ENGINEERING
1223 Jones Franklin Rd., Raleigh, N.C. 27606
License No. F-0377
Bus: 919.851.8077 Fax: 919.851.8107

2012 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE:
JUNE 20, 2019
LETTING DATE:
NOVEMBER 20, 2019

NC DOT CONTACT:

Prepared for:
**DIVISION OF HIGHWAYS
DIVISION 1**
113 Airport Drive
Edenton NC, 27935

BOB A. MAY, PE
PROJECT ENGINEER

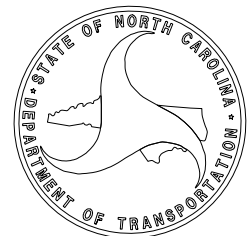
ROBERT O'DELL JR.
PROJECT DESIGN ENGINEER

RYAN SHOOK
DIVISION PROJECT ENGINEER

HYDRAULICS ENGINEER



ROADWAY DESIGN ENGINEER

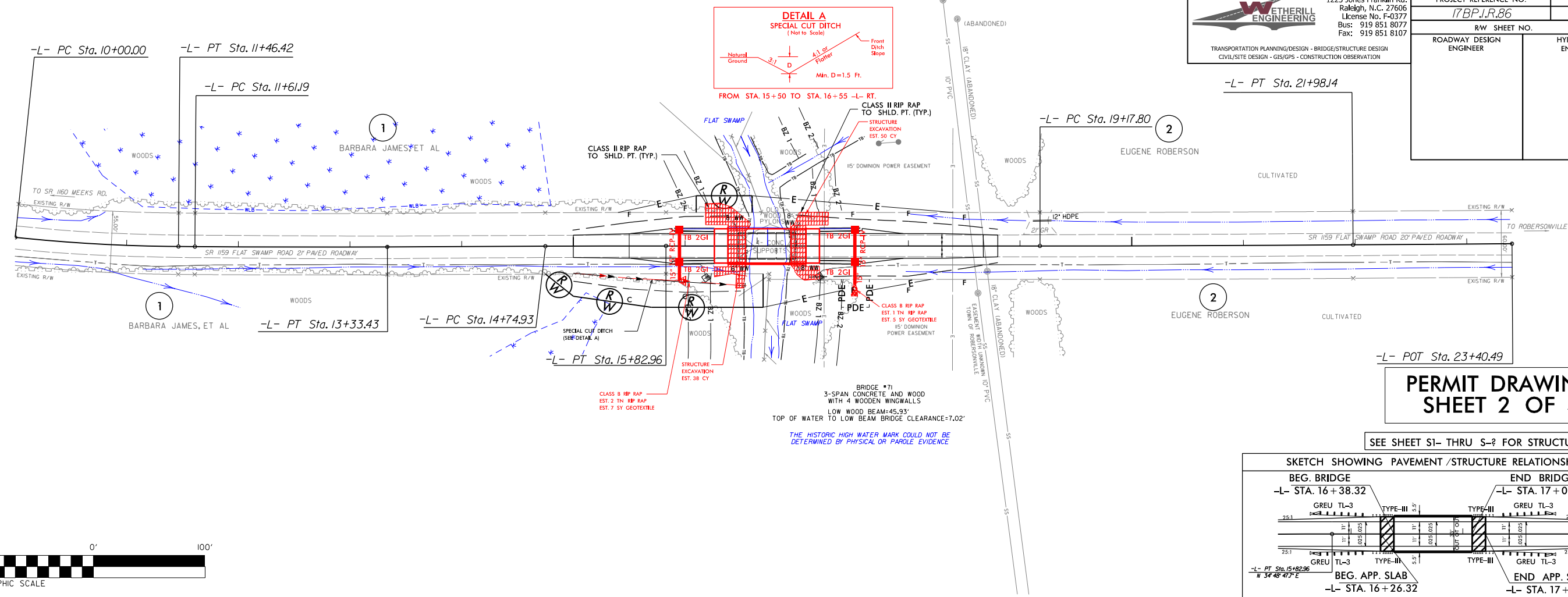


B.17/99

WETHERILL ENGINEERING
 1223 Jones Franklin Rd.
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

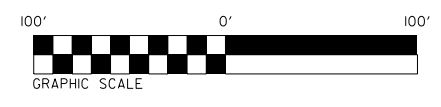
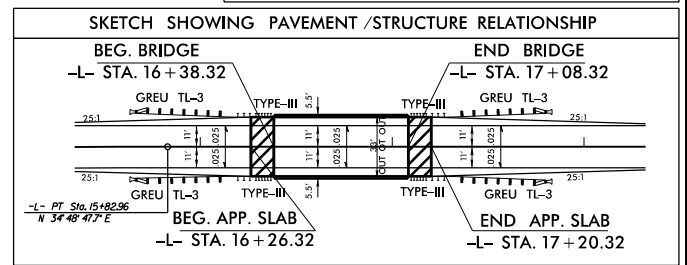
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <i>17BP.I.R.86</i>	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

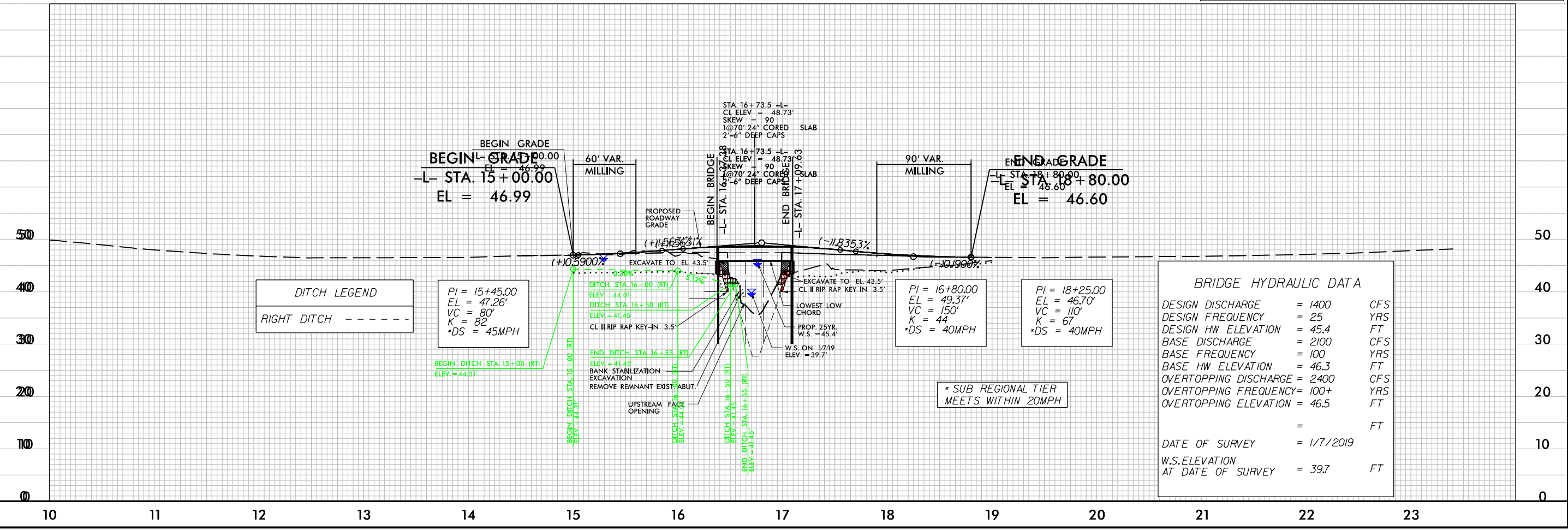


PERMIT DRAWING SHEET 2 OF 4

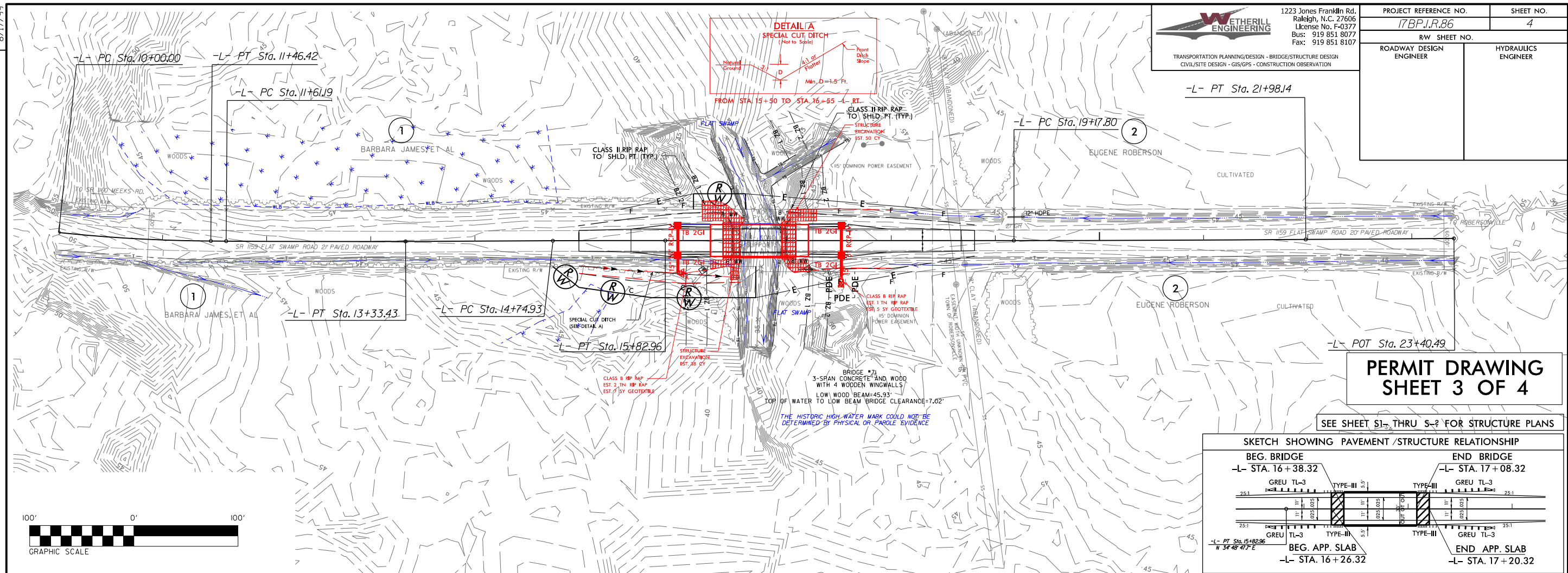
SEE SHEET S1- THRU S-2 FOR STRUCTURE PLANS



REVISIONS

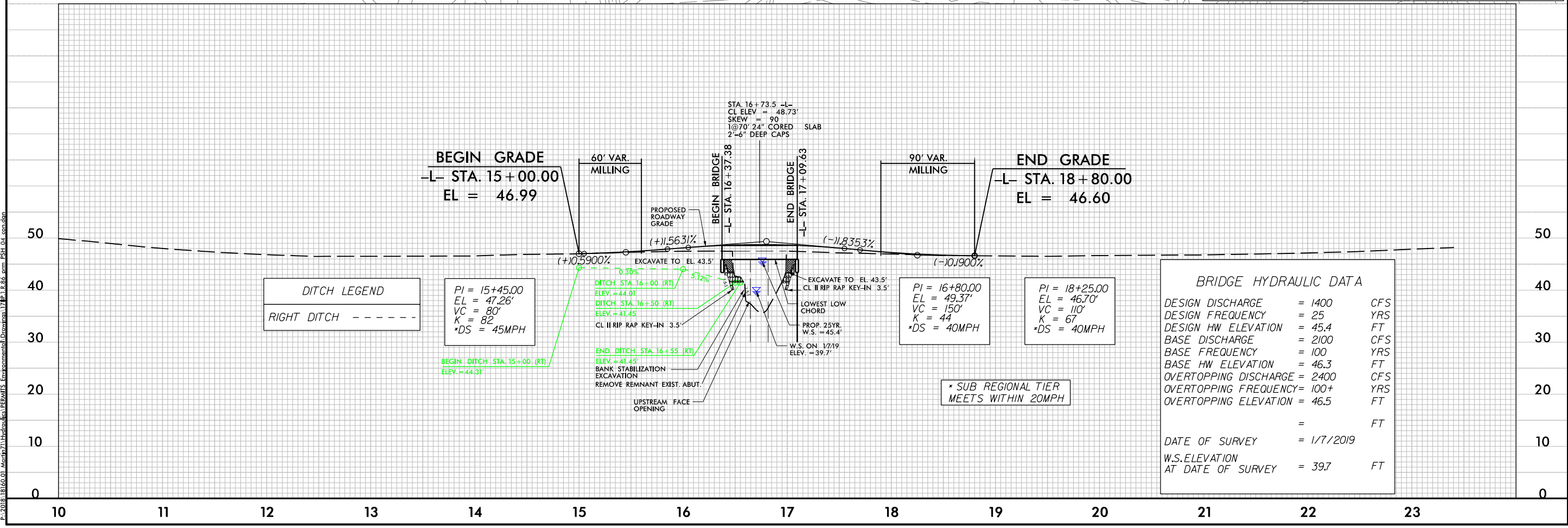
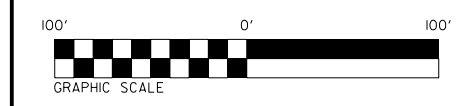
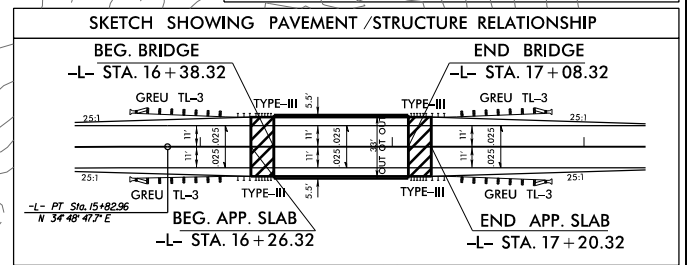


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PERMIT DRAWING SHEET 3 OF 4

SEE SHEET S1- THRU S-2 FOR STRUCTURE PLANS



REVISIONS

09/05/19
 P:\2018\18140.01_Maint\711_Hydro\GIS\PERMITS\Environmental\Drawings\17BP.I.R.86.prm_PSH_04.dwg

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 16+37 to 17+09	72' Bridge (no impacts)										
TOTALS*:										0	0	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 4/3/2019
 Martin County
 BR-4577
 9/18/2019
 SHEET 4 OF 4

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MARTIN COUNTY

LOCATION: BRIDGE No. 71 OVER FLAT SWAMP ON
SR 1159

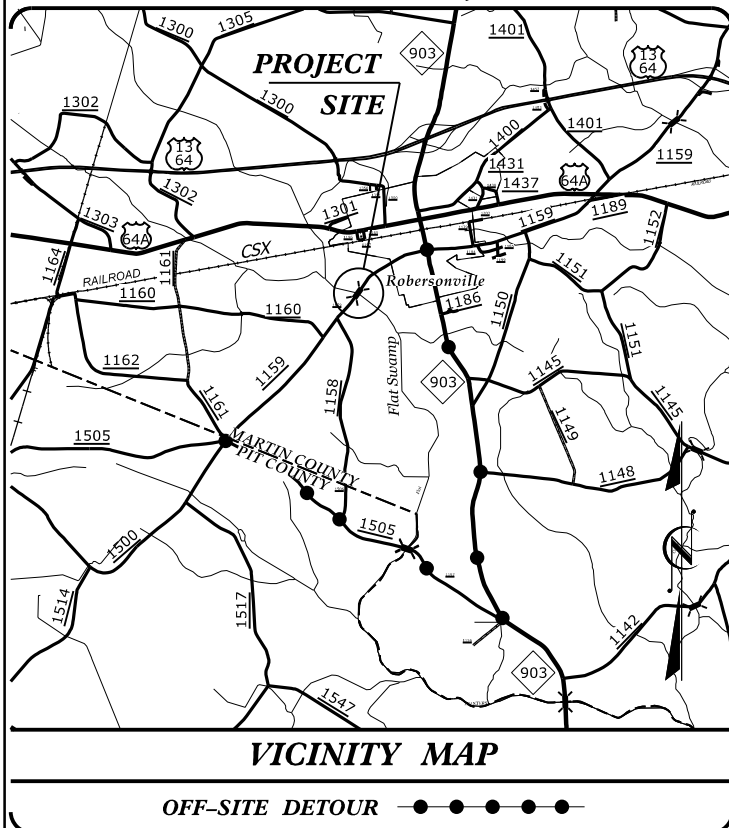
TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES.

BUFFER IMPACTS PERMIT

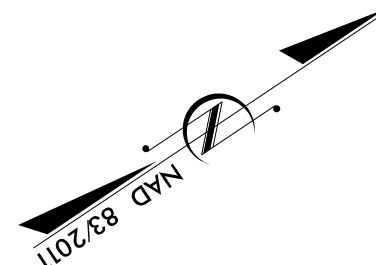
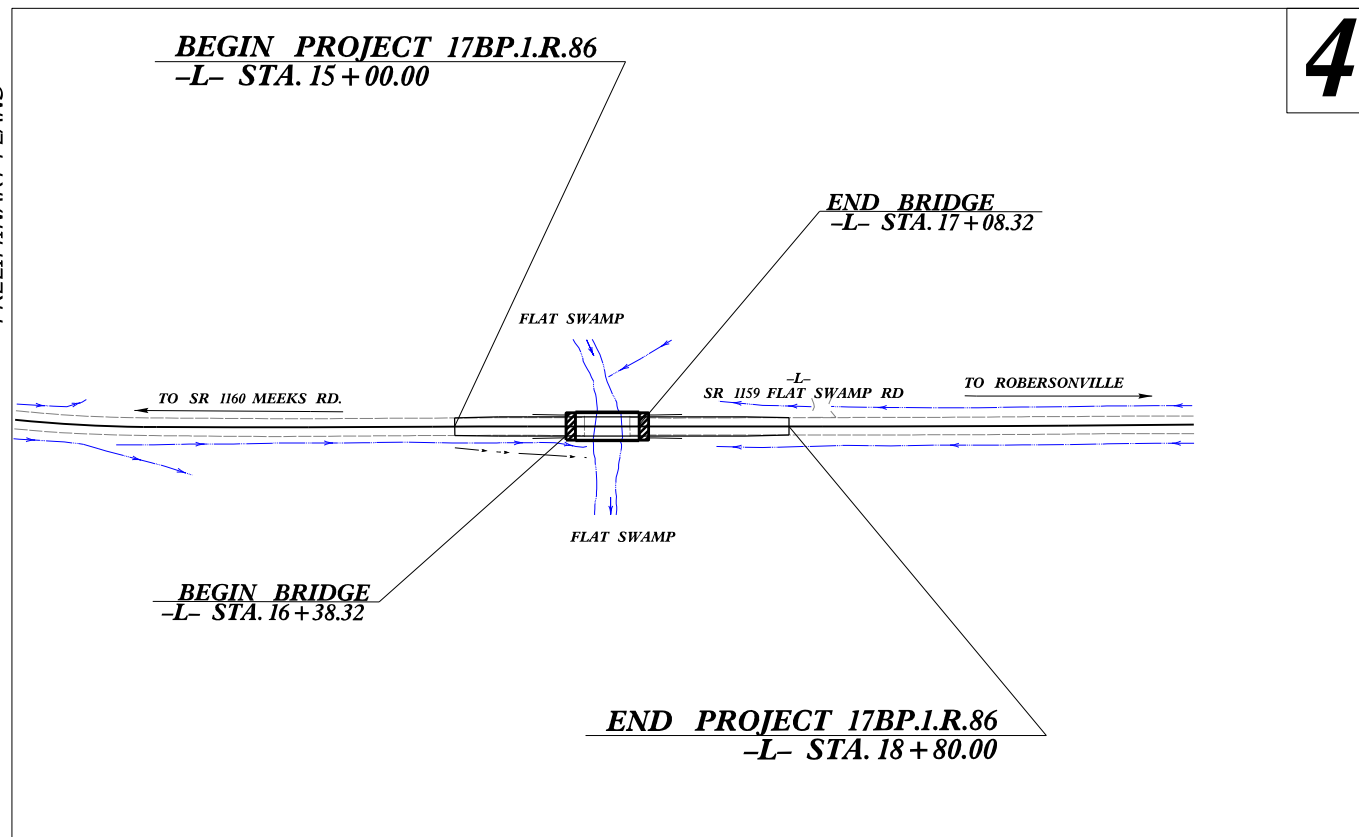
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.1.R.86	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.1.R.86		PE	

**BUFFER DRAWING
SHEET 1 OF 3**

PROJECT: 17BP.1.R.86



PRELIMINARY PLANS

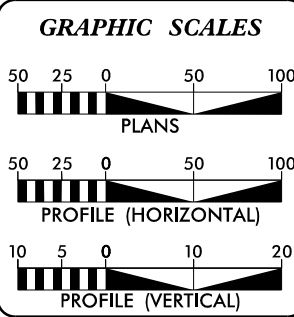


**NOTE: NO DECK DRAINS
ON BRIDGE**

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DOCUMENT NOT CONSIDERED FINAL
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CONTRACT:



DESIGN DATA

ADT 2015	=	1,100
ADT	=	
K	=	%
D	=	%
T	=	% *
V	=	60 MPH
* TTST	=	% DUAL = %
FUNC. CLASS	=	LOCAL
		(Subregional Tier)

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Prepared for:
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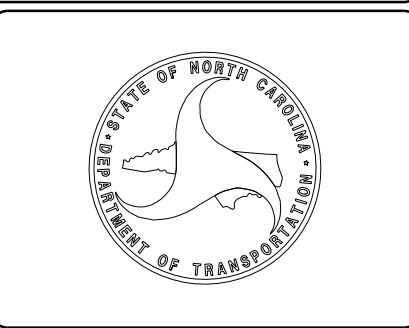
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ROBERT O'DELL JR.
PROJECT DESIGN ENGINEER

RYAN SHOOK
DIVISION PROJECT ENGINEER

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER



9/18/2019
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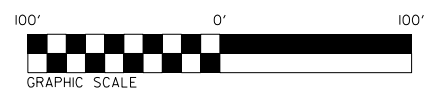
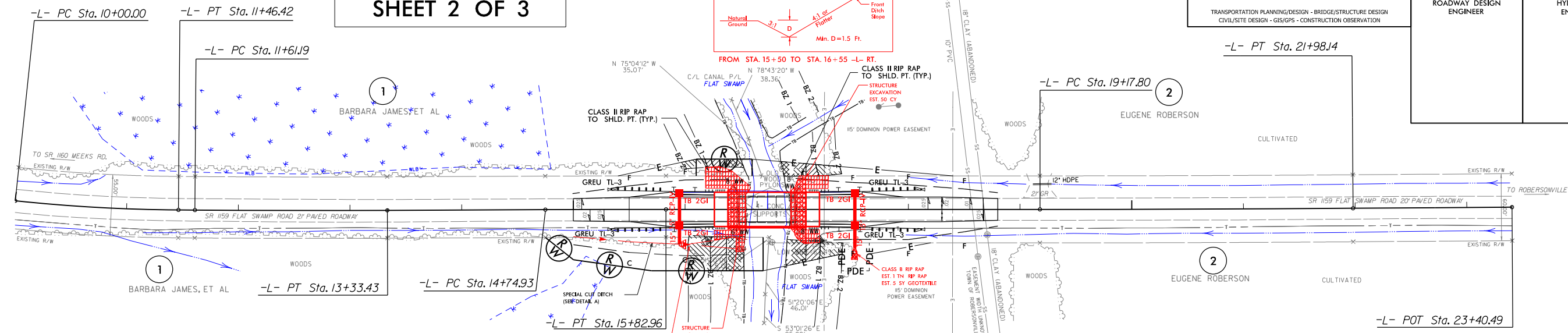
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BUFFER DRAWING SHEET 2 OF 3

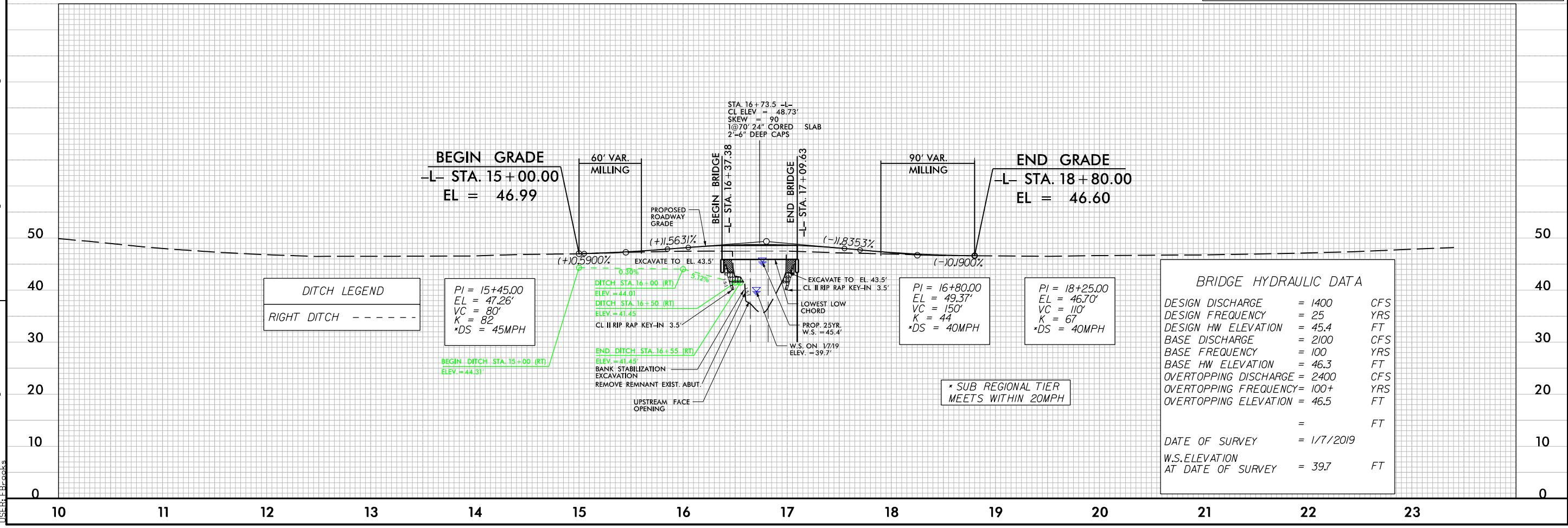
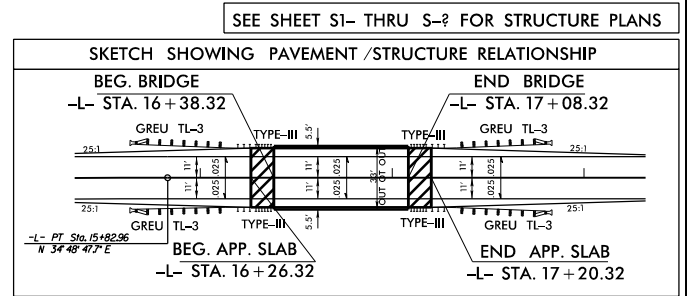
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
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PROJECT REFERENCE NO. <i>17BP.LR.86</i>	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- ALLOWABLE IMPACTS ZONE 1 (BRIDGE)
- ALLOWABLE IMPACTS ZONE 1 (ROADWAY)
- ALLOWABLE IMPACTS ZONE 2 (ROADWAY)



REVISIONS

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BUFFER IMPACTS SUMMARY

SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	IMPACT									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE			ZONE 1 (ft ²)	ZONE 2 (ft ²)
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)		
1	70' bridge	-L- 16+00 to 17+40		X		1219		1219					
	road		X			887	1209	2096					
TOTAL:						2106	1209	3315	0	0	0		

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS

 Martin County
 PROJECT: BRIDGE 71 over SR 1159
 (Flat Swamps Rd)

 4/11/2019
 SHEET 3 OF 3