



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: TIP No.: 17BP.10.R.115 County(ies): Anson Page 1 of 1

General Project Information

WBS Element:		TIP Number:	17BP.10.R.115	Project Type:	Bridge Replacement	Date:	3/20/2019
NCDOT Contact:	Garland Haywood, PE		Contractor / Designer:		Dean Lewis		
	Address:	NCDOT Highway Division 10 716 W Main Street Albemarle, NC 28001			Address:	HDR Engineering, Inc. of the Carolinas 555 Fayetteville Street, Suite 900 Raleigh, NC 27601	
	Phone:	(704) 983-4400			Phone:	(919) 232-6632	
	Email:	ghaywood@ncdot.gov			Email:	dean.lewis@hdrinc.com	
City/Town:	Peachland		County(ies):	Anson			
River Basin(s):	Yadkin-Pee Dee		CAMA County?	No			
Wetlands within Project Limits?	Yes						

Project Description

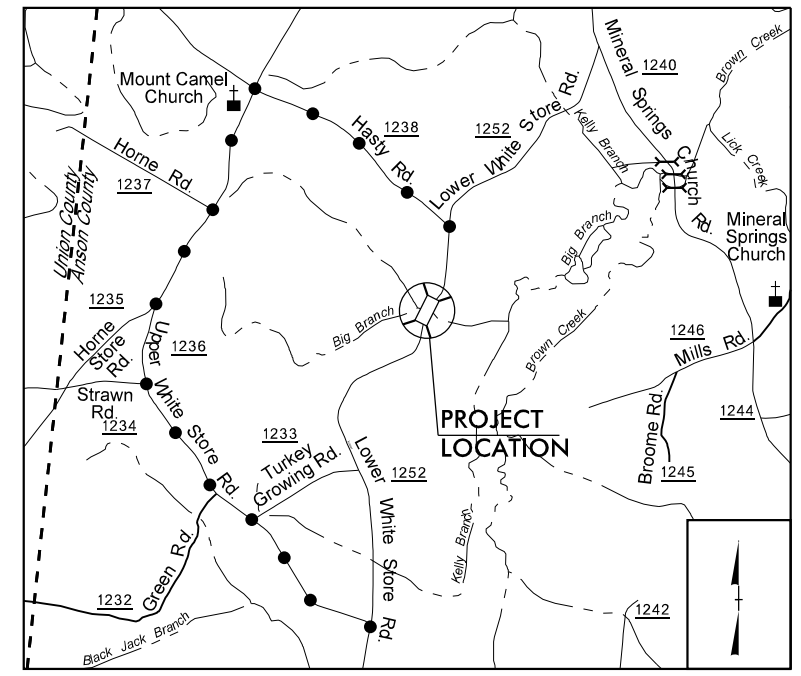
Project Length (lin. miles or feet):	0.06	Surrounding Land Use:	Woodlands/Farmlands					
	Proposed Project		Existing Site					
Project Built-Upon Area (ac.)	0.2	ac.	0.2	ac.				
Typical Cross Section Description:	Lower White Store Road (SR 1252): 2 paved lanes (total width varies from 28' to 34'), shoulder width varies from 3' without guard rail to 7' with guard rail in project area.			Lower White Store Road (SR 1252): 2 paved lanes (total width 20'), shoulder width varies in project area.				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	340	Year:	2039	Existing:	240	Year:	2019
General Project Narrative: (Description of Minimization of Water Quality Impacts)	The North Carolina Department of Transportation (NCDOT) has proposed to replace Anson County Bridge #130 on Lower White Store Rd (SR 1252) over Big Branch. The existing structure is a single span bridge (1@34') timber deck on steel I-beams. The proposed structure is a single span bridge (1@55') 21" cored slab deck w/2.5' deep caps. This structure has been designed to minimize environmental impacts using 2:1 side slopes with guardrail adjacent to jurisdictional features. Channel improvements were made for the proposed bridge design, the excavation associated with the channel improvements was kept to a minimum to reduce stream impacts. Three ditches are proposed on the site, all of the ditches are to be rip-rap lined due to stabilize the ditches and minimize the chance of erosion.							

Waterbody Information

Surface Water Body (1):	Big Branch		NCDWR Stream Index No.:	13-20-4				
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C					
	Supplemental Classification:		None					
Other Stream Classification:	None							
Impairments:	None							
Aquatic T&E Species?	Yes	Comments: Habitat for the Carolina Heelsplitter exists in Big Branch. NCDOT biologists will conduct a survey of Big Branch before construction begins.						
NRTR Stream ID:	Big Branch		Buffer Rules in Effect:		N/A			
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	N/A		Dissipator Pads Provided in Buffer?			N/A
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)				
(If yes, provide justification in the General Project Narrative)								

CONTRACT: STATE PROJECT: 17BP.10.R.115

See Sheet 1A For Index of Sheets



DETOUR ROUTE
VICINITY MAP
(NOT TO SCALE)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ANSON COUNTY

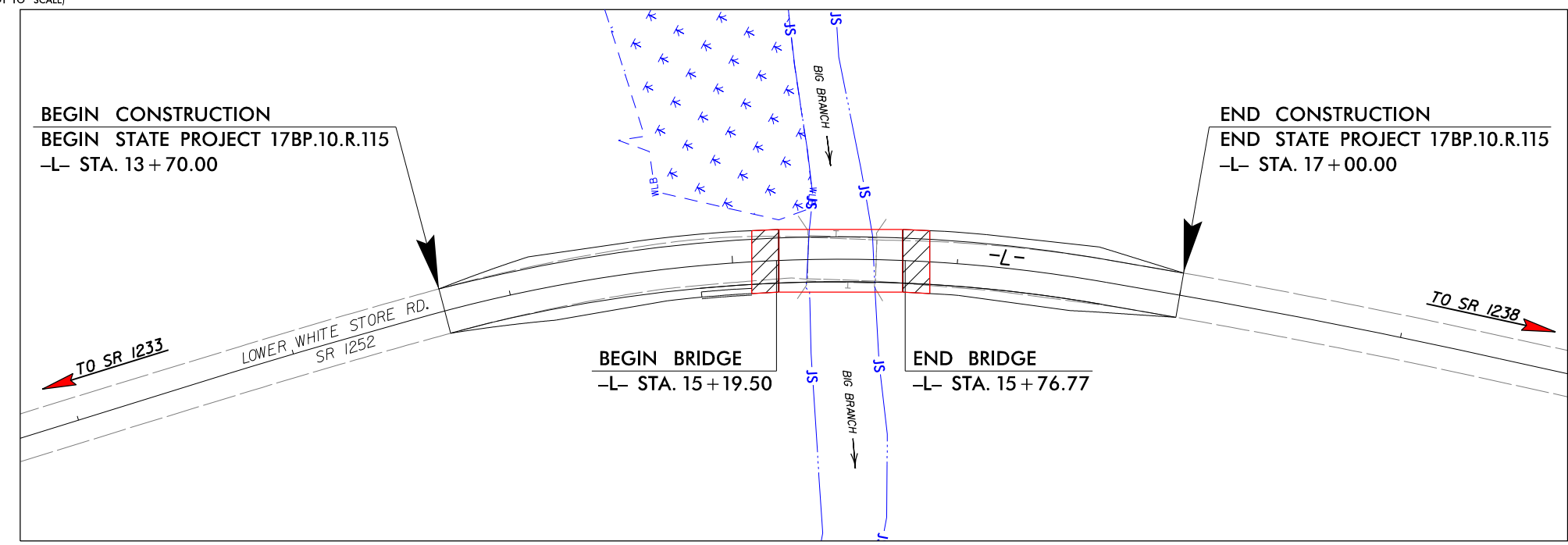
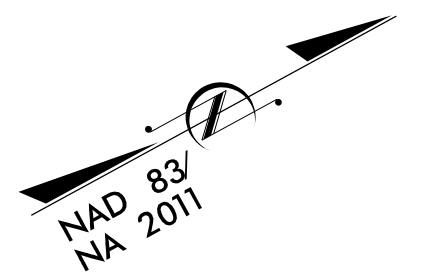
LOCATION: BRIDGE NO. 130 ON SR 1252 OVER BIG BRANCH BETWEEN SR 1233 AND SR 1238

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

WETLAND AND STREAM IMPACTS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.10.R.115	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.10.R.115		P.E., R/W, CONSTR.	

PERMIT DRAWING
SHEET 1 OF 7

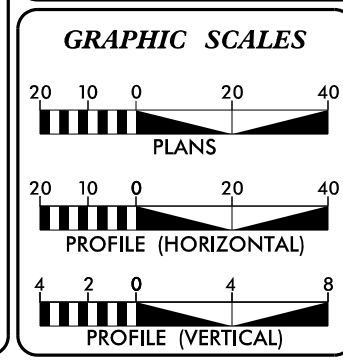


LOCATION SKETCH

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

INCOMPLETE PLANS
 DO NOT USE FOR R/W ACQUISITION
 DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2016	=	220
ADT	=	
DHV	=	%
D	=	%
T	=	6 %
V	=	55 MPH
FUNC CLASS	=	LOCAL RURAL SUBREGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY STATE PROJECT 17BP.10.R.115	=	0.052 MILES
LENGTH STRUCTURES STATE PROJECT 17BP.10.R.115	=	0.011 MILES
TOTAL LENGTH STATE PROJECT 17BP.10.R.115	=	0.063 MILES

Prepared for the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	APRIL 4, 2019
LETTING DATE:	OCTOBER 9, 2019
	DOMINIC M. WAINWRIGHT, P.E. PROJECT ENGINEER
	ALEXANDER D. SNIDER, P.E. PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA





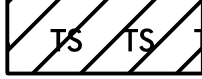
SCOTT COLE P.E.
DIVISION ENGINEER

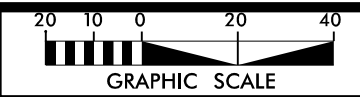
3/21/2019 11:15:15 AM HYD_PRM_WET_TSH.DGN
 \$\$\$SERVNAME\$\$\$



PLOT DRIVER: NCDOT.pdcolor_eng_50.plt
 USER: DEWIS
 DATE: 3/20/2019
 TIME: 4:21:20 PM
 FILE: NCDOT\NCDOT_Western_Div_On-Cell_M_NCDOT_2018.Div_10.Bridge_Group\6.0.CAD.BTM\6.2.WTP\Site #3 Anson #130 17BP.10.R.115.Hydraulics\Permits_Environmental\Drawings\17BP.10.R.115.HDY_PRM_WET_PSH4.dgn

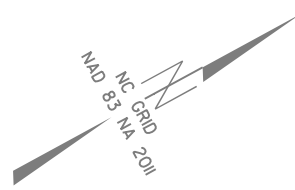
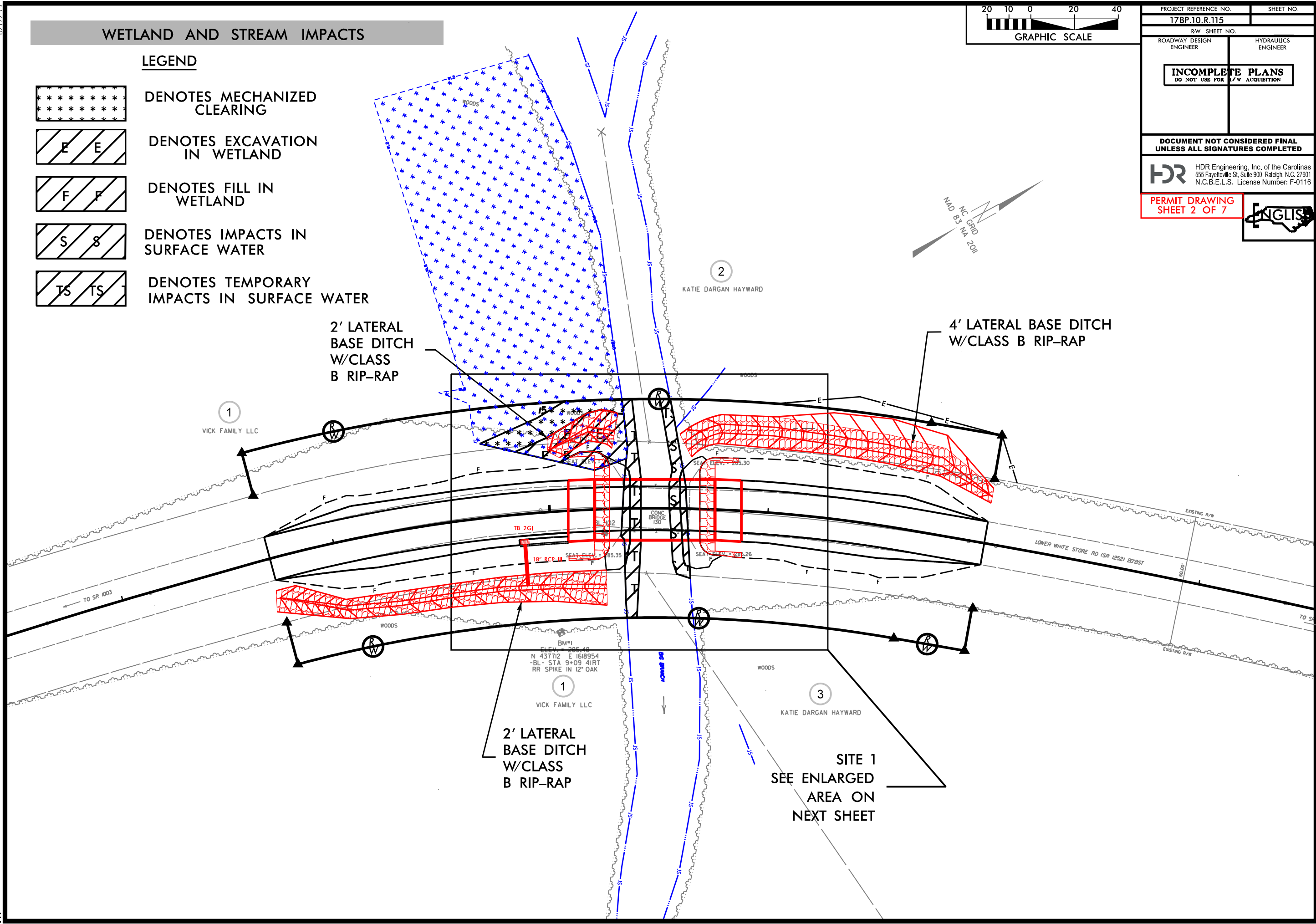
WETLAND AND STREAM IMPACTS

LEGEND

-  DENOTES MECHANIZED CLEARING
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PROJECT REFERENCE NO. 17BP.10.R.115		SHEET NO.	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			
PERMIT DRAWING SHEET 2 OF 7			

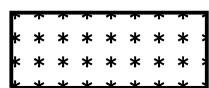
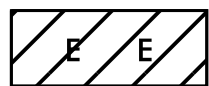

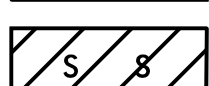
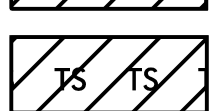


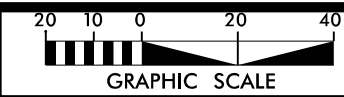
SITE 1
SEE ENLARGED
AREA ON
NEXT SHEET



PLOT DRIVER: NCDOT.pdff_color_eng_50.ppt
 USER: DEWIS
 DATE: 3/20/2019
 TIME: 4:22:19 PM
 FILE: NCDOT\NCDOT_Western.Div. On-Cell.M.\NCDOT_2018.Div.10.Bridge.Group\6.0.CAD.BTM\6.2.WTP\Site #3 Anson #130 17BP.10.R.115\Hydraulics\PERMITS_Environmental\Drawings\17BP.10.R.115_HDY_PRM_WET_PSH4.dgn

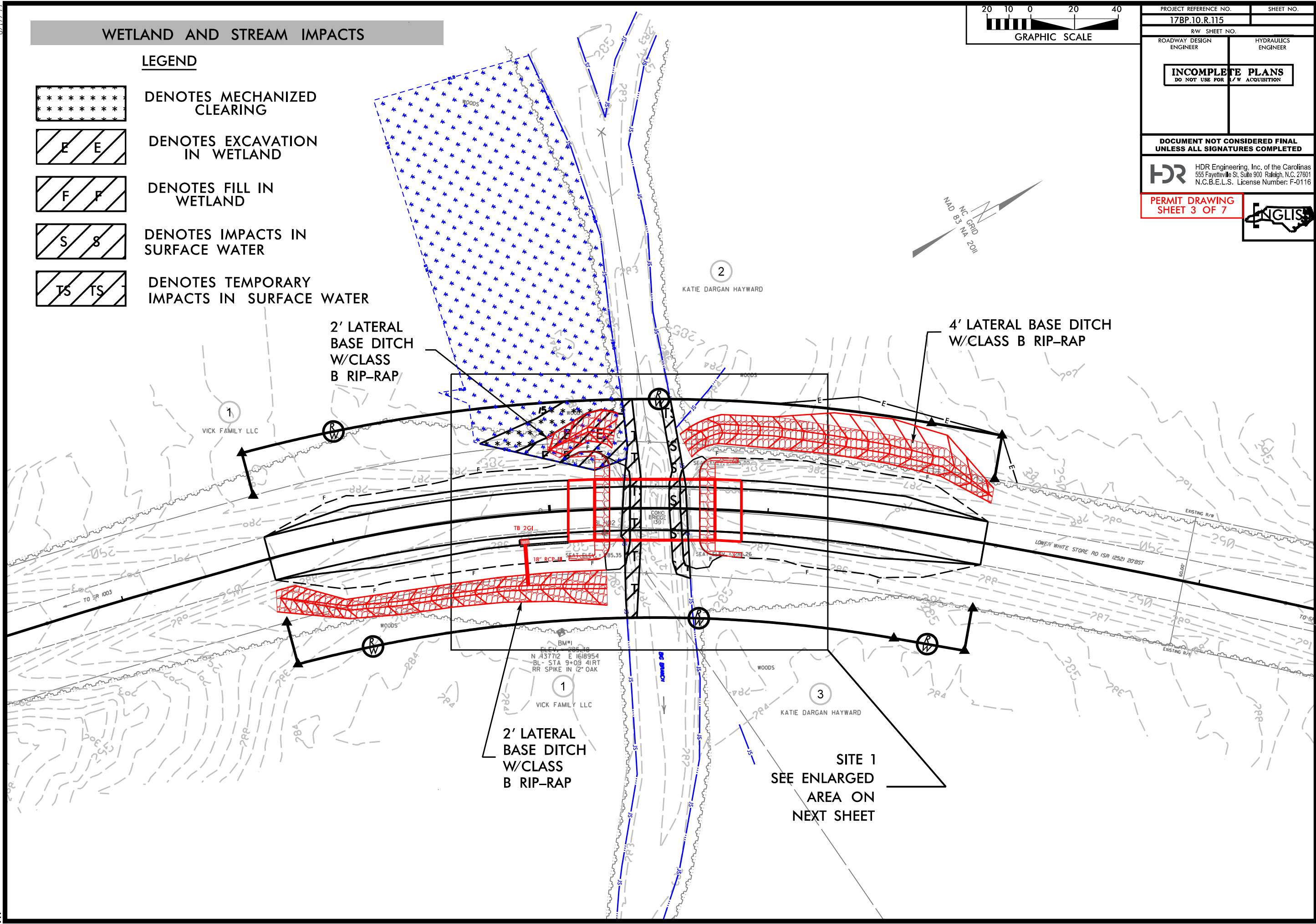
WETLAND AND STREAM IMPACTS

LEGEND

-  DENOTES MECHANIZED CLEARING
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER

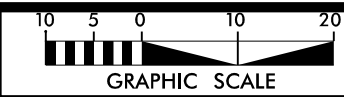


PROJECT REFERENCE NO. 17BP.10.R.115		SHEET NO.	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			
PERMIT DRAWING SHEET 3 OF 7			

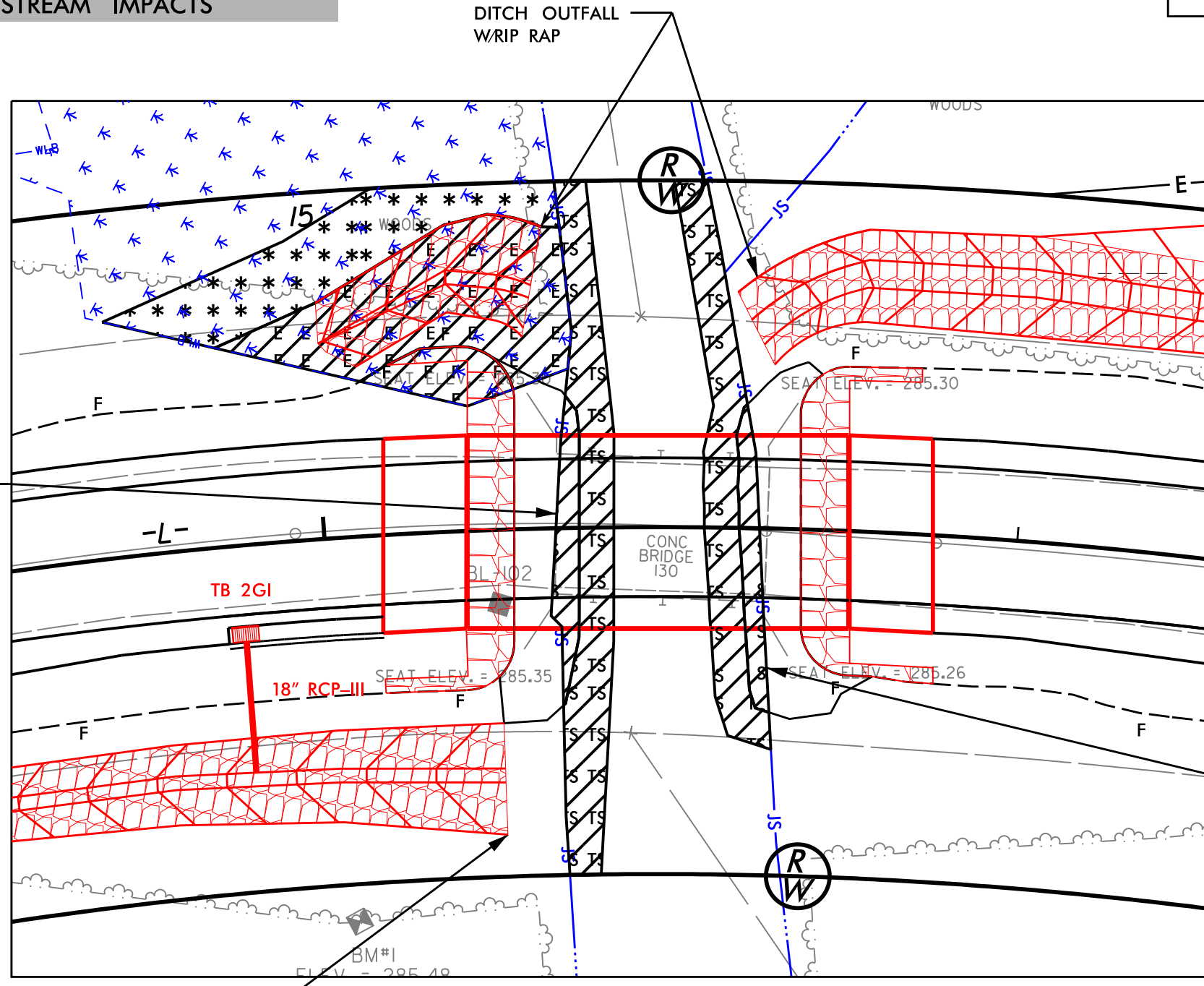


SITE 1
SEE ENLARGED
AREA ON
NEXT SHEET

WETLAND AND STREAM IMPACTS



PROJECT REFERENCE NO. 17BP.10.R.115	SHEET NO.
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	
PERMIT DRAWING SHEET 4 OF 7	



PROP EARTHEN
STRUCTURE IMPACTS
IN SURFACE WATERS

PROP EARTHEN
STRUCTURE IMPACTS
IN SURFACE WATERS

LEGEND

- DENOTES MECHANIZED CLEARING
- DENOTES EXCAVATION IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DETAIL SHEET FOR SITE 1

PLOT DRIVER: NCDOT.pdcolor_eng_50.pit
 USER: DLEWIS
 DATE: 3/20/2019
 TIME: 4:19:50 PM
 FILE: NCDOT\NCDOT_Western_Div_0n-Cell_M_NCDOT_2018_Div_10_Bridge_Group\6.0_CAD_BTM\6.2_WIP\Site #3 Anson #130 17BP.10.R.115\Hydraulics\PERMITS_Environmental\Drawings\17BP.10.R.115_HDY_PRM_WET_PSH4.dgn

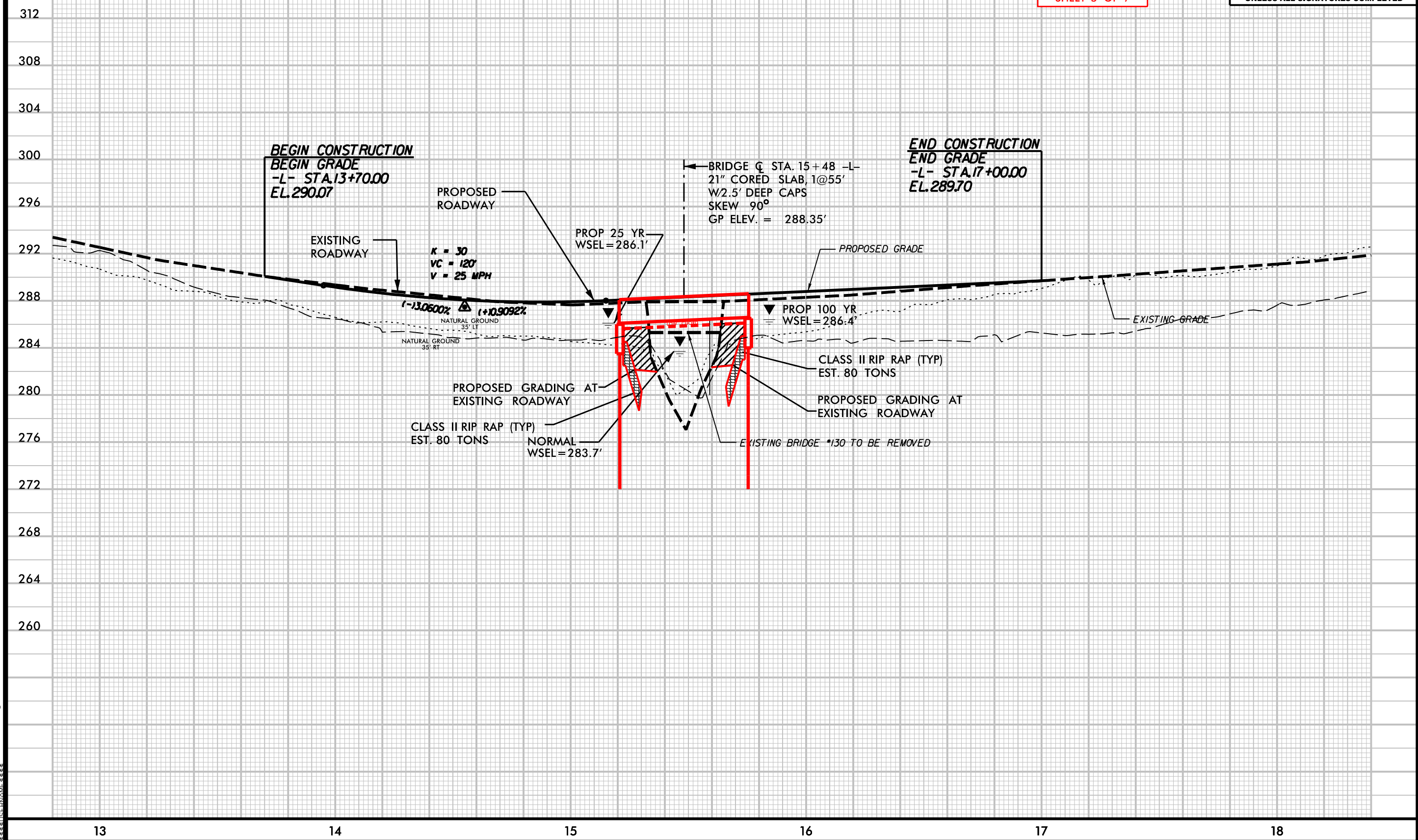
8/17/99

5/14/99

PROJECT REFERENCE NO. 17BP10.R115	SHEET NO.
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PERMIT DRAWING
SHEET 5 OF 7



145715 AM 115 HYD.PRM.WET.PE.L.dgn

