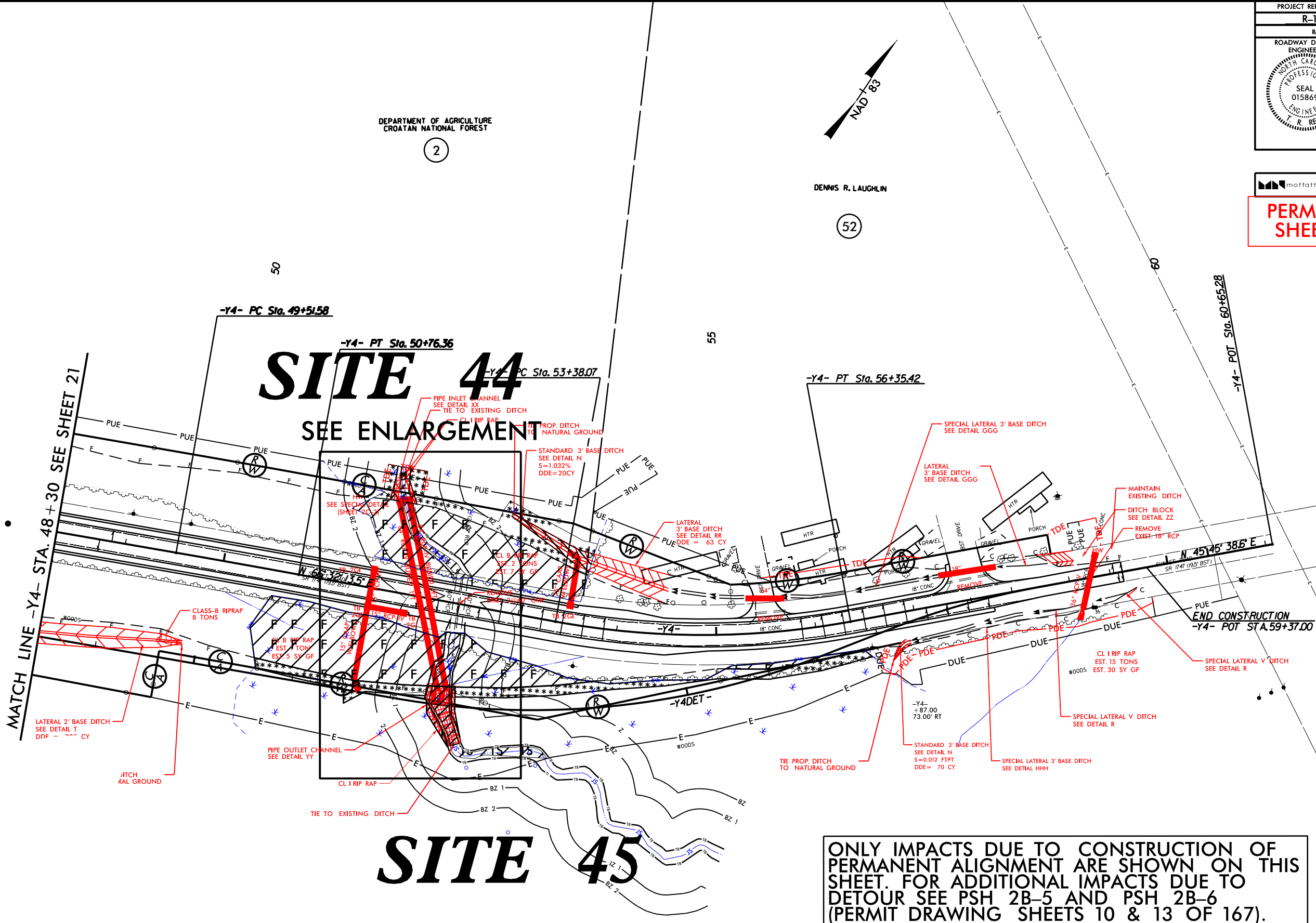


REVISIONS	
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 55+51 TO 57+16 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 58+45 TO 58+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 59+45 TO 59+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 60+45 TO 60+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 61+45 TO 61+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 62+45 TO 62+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 63+45 TO 63+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 64+45 TO 64+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 65+45 TO 65+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 66+45 TO 66+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 67+45 TO 67+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 68+45 TO 68+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 69+45 TO 69+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 70+45 TO 70+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 71+45 TO 71+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 72+45 TO 72+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 73+45 TO 73+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 74+45 TO 74+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 75+45 TO 75+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 76+45 TO 76+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 77+45 TO 77+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 78+45 TO 78+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 79+45 TO 79+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 80+45 TO 80+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 81+45 TO 81+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 82+45 TO 82+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 83+45 TO 83+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 84+45 TO 84+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 85+45 TO 85+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 86+45 TO 86+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 87+45 TO 87+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 88+45 TO 88+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 89+45 TO 89+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 90+45 TO 90+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 91+45 TO 91+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 92+45 TO 92+96 LT
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7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 95+45 TO 95+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 96+45 TO 96+96 LT
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7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 99+45 TO 99+96 LT
7/13/2018	PARCEL 52 - ADDED TDE STATION -Y4- 100+45 TO 100+96 LT

8/17/99

11/16/2018
mgberry
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PROJECT REFERENCE NO.
R-1015

SHEET NO.
46

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 015869
T. R. REID

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 032581
BROCK E. ANDERSON

moffatt & nichol

4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27607
(919) 781-4626 VOICE (919) 781-4664 FAX
NC LICENSE NO. F-0105

PERMIT DRAWING

SHEET 154 OF 167

*

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DENOTES MECHANIZED CLEARING

E

E

DENOTES EXCAVATION IN WETLAND

TS

TS

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

S

S

DENOTES IMPACTS IN SURFACE WATER

F

F

DENOTES FILL IN WETLAND

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

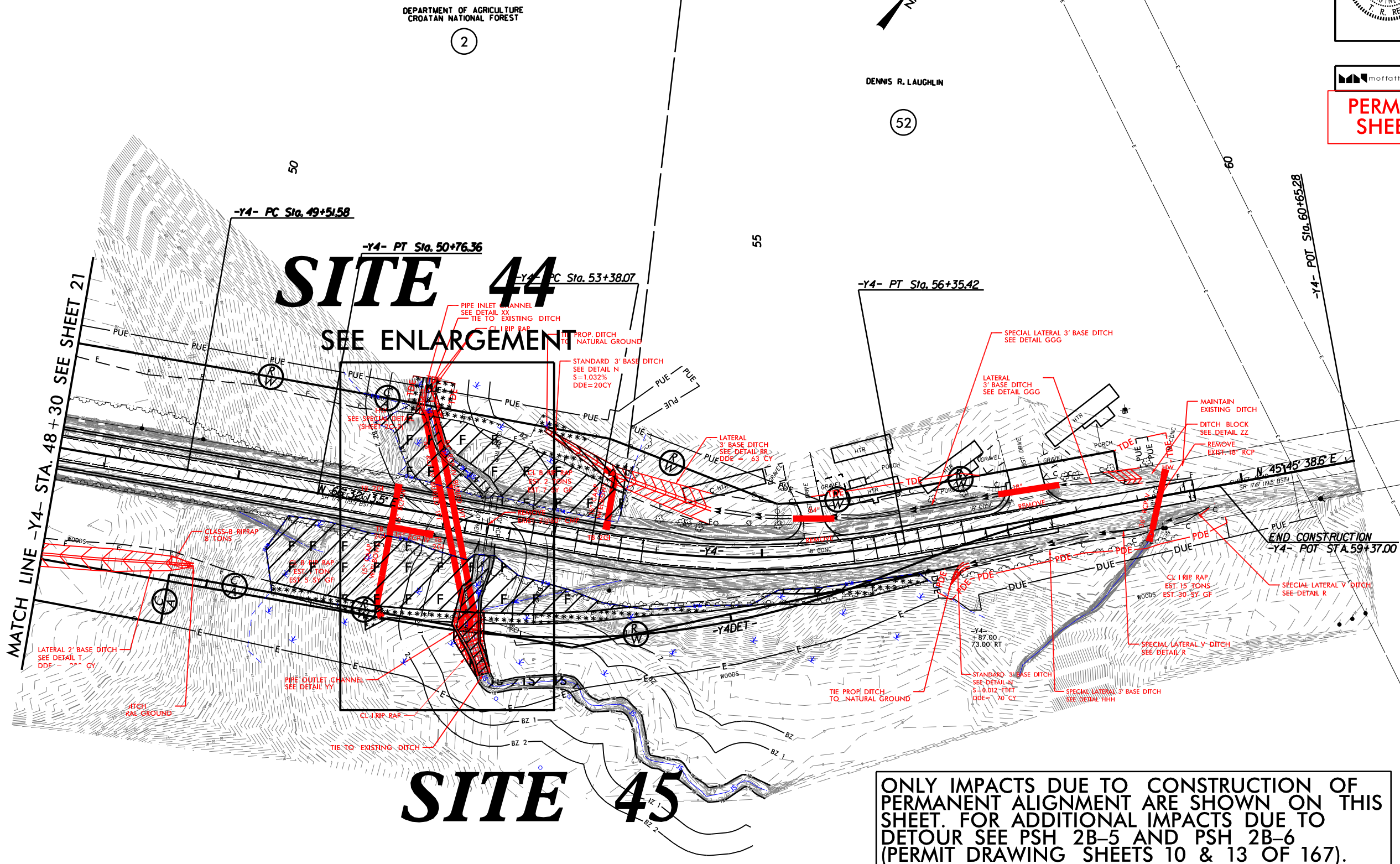
ONLY IMPACTS DUE TO CONSTRUCTION OF PERMANENT ALIGNMENT ARE SHOWN ON THIS SHEET. FOR ADDITIONAL IMPACTS DUE TO DETOUR SEE PSH 2B-5 AND PSH 2B-6 (PERMIT DRAWING SHEETS 10 & 13 OF 167).

SEE SHEET 83 FOR PROFILE -Y4-
SEE SHEETS 2D-1 THRU 2D-2 FOR DRAINAGE DITCH DETAILS

PROJECT REFERENCE NO.	SHEET NO.
R-1015	46
RW. SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

 **moffatt & nichol** 4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919) 781-4626 VOICE (919) 781-4669 FAX
NC License NO.: F-0105

PERMIT DRAWING
SHEET 155 OF 167



**ONLY IMPACTS DUE TO CONSTRUCTION OF
PERMANENT ALIGNMENT ARE SHOWN ON THIS
SHEET. FOR ADDITIONAL IMPACTS DUE TO
DETOUR SEE PSH 2B-5 AND PSH 2B-6
(PERMIT DRAWING SHEETS 10 & 13 OF 167).**

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

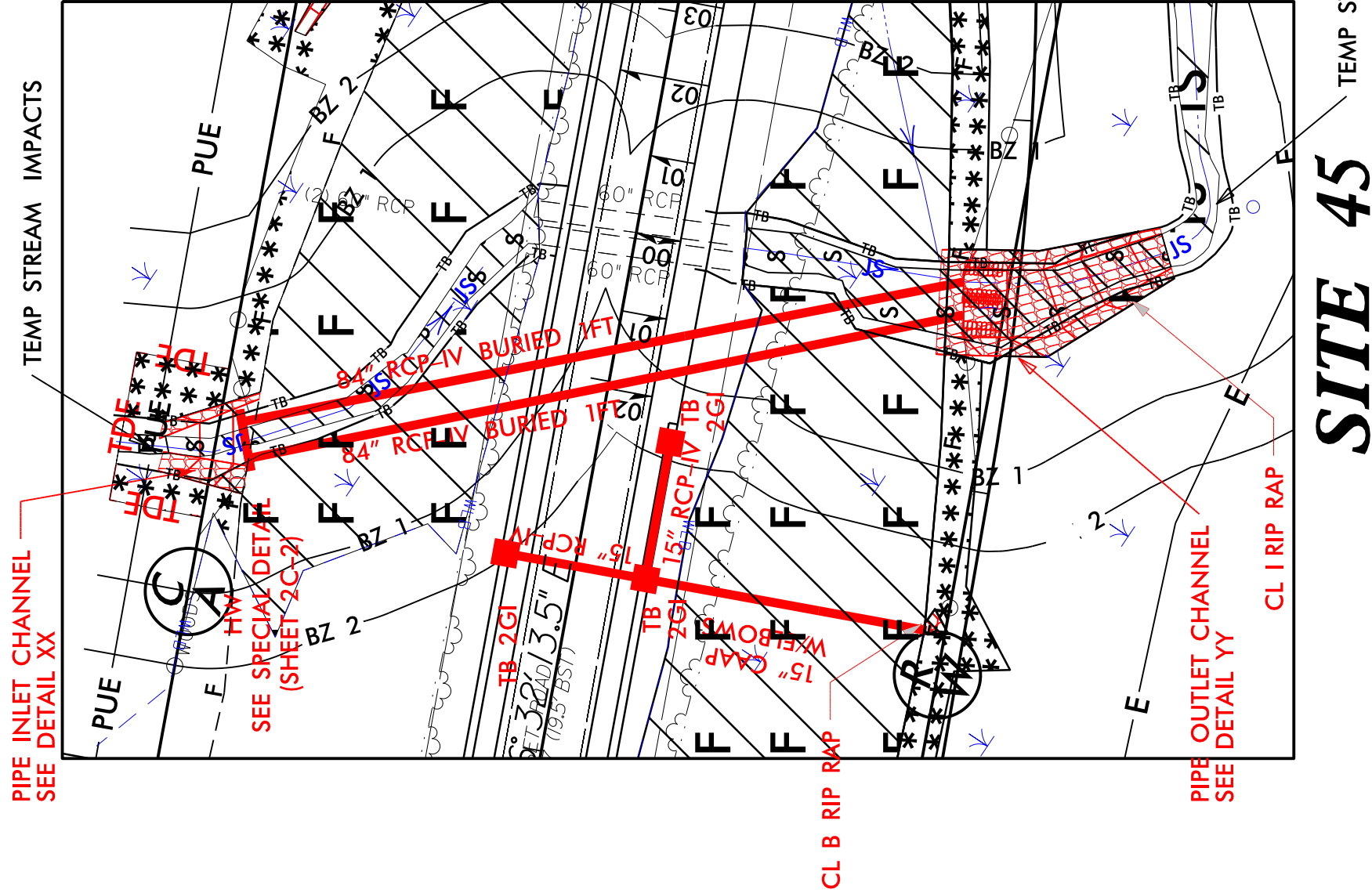
DEPARTMENT OF AGRICULTURE
CROATIAN NATIONAL FOREST



SEE SHEET 83 FOR PROFILE -Y4-
SEE SHEETS 2D-1THRU 2D-2 FOR DRAINAGE DITCH DETAILS

REVISIONS	
7/13/2018	- PARCEL 52 - ADDED TDE STATION -Y4- 55+51 TO 57+16 LT - PARCEL 52 - ADDED TDE STATION -Y4- 58+45 TO 58+96 LT - PARCEL 52 - REVISED PUE AND DUE -Y4- 58+45 TO 58+96 LT
8/14/2018	- PARCEL 52 - REVISED PUE AND DUE -Y4- 58+45 TO 58+96 LT - PARCEL 52 - REVISED TDE PUE AND DUE -Y4- 58+45 TO 58+96 LT
10/29/2018	-Y4- STATION 55+70 TO 58+86 RT - PARCELS 2 & 52 - REVISED PUE -Y4- LT STA 48+30 TO - PARCELS 2 & 52 - REVISED PUE -Y4- RT STA 55+70 TO 60+22+23 - PARCEL 2 REVISED PUE AND DUE -Y4- LT STA 48+30 TO 55+60+32

SITE 44



TEMP STREAM IMPACTS

SITE 45

 DENOTES TEMPORARY FILL IN WETLAND

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

FF

DENOTES EXCAVATION
IN WETLAND

A 5x5 grid of asterisks arranged in a circular pattern. The asterisks are located at the following coordinates (row, column) starting from the top-left:

		*		*
			*	
*			*	
*		*		*
	*		*	

DENOTES MECHANIZED
CLEARING

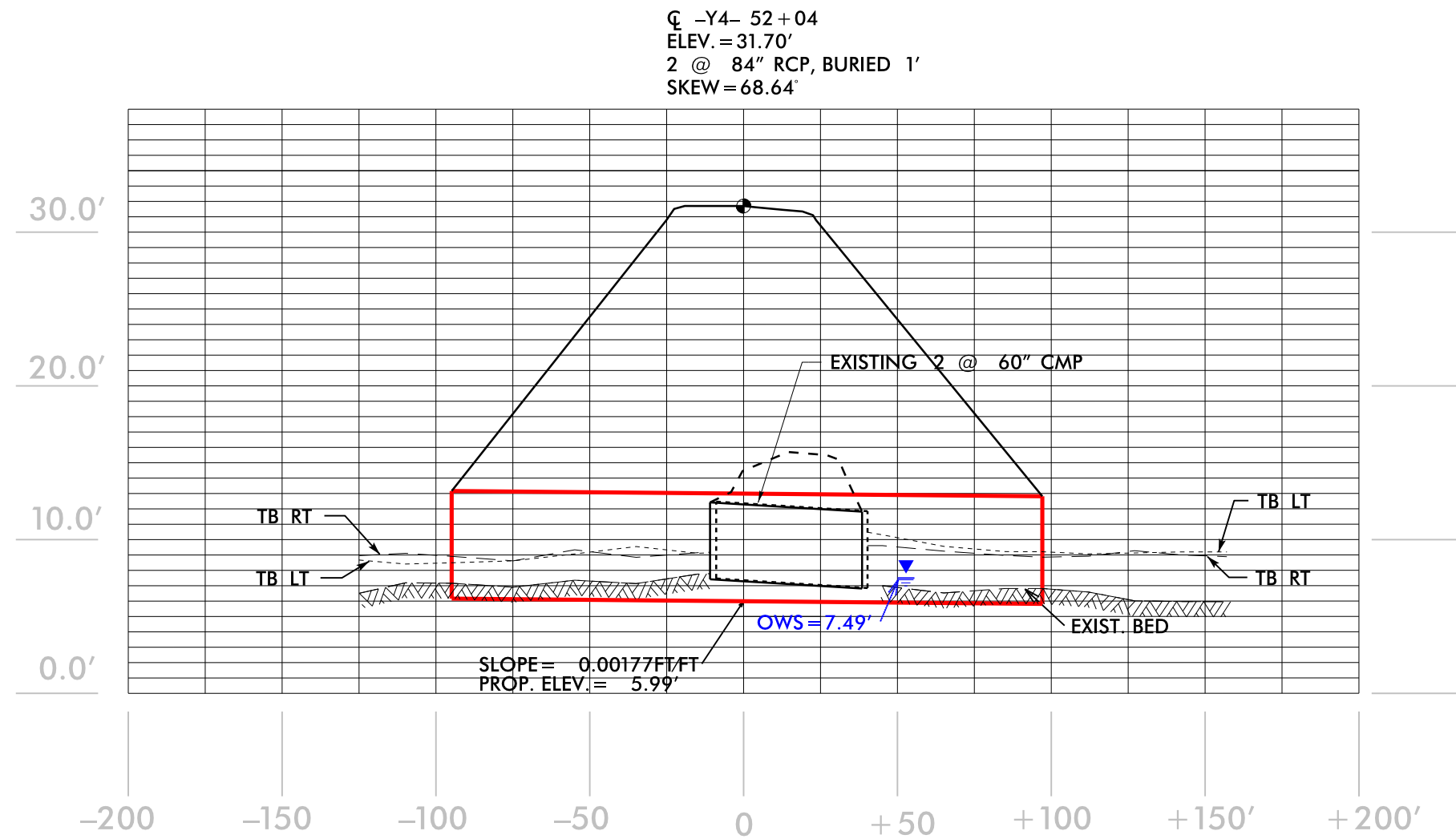
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**DIVISION OF HIGHWAYS
CRAVEN COUNTY**

PROJECT: 34360.1.2 (R-1015)

UUS 70 (HAVELOCK BYP)
FROM SOUTH OF CARTERET
// CRAVEN COUNTY LINE TO
SOUTH OF SR 1176

SITE 44 & 45 ENLARGEMENT

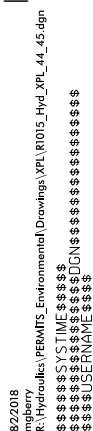


PROFILE

SITE 44 & 45

NCDOT
DIVISION OF HIGHWAYS
CRAVEN COUNTY
PROJECT: 34360.1.2 (R-1015)
US 70 (HAVELOCK BYP)
FROM SOUTH OF CARTERET
/ CRAVEN COUNTY LINE
TO SOUTH OF SR 1176
SHEET 157 OF 167 08/01/2018

PERMIT DRAWING
SHEET 158 OF 167



8/17/99

REVISIONS

7/13/2018 - PARCELS 53.62 - REVISED PDF STATION -SR162- 13+75 TO 15+10 RT
8/14/2018 - PARCEL 53 - REVISED PDF STATION -SR162- 15+10 TO 15+46 RT

SYTIME
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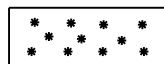
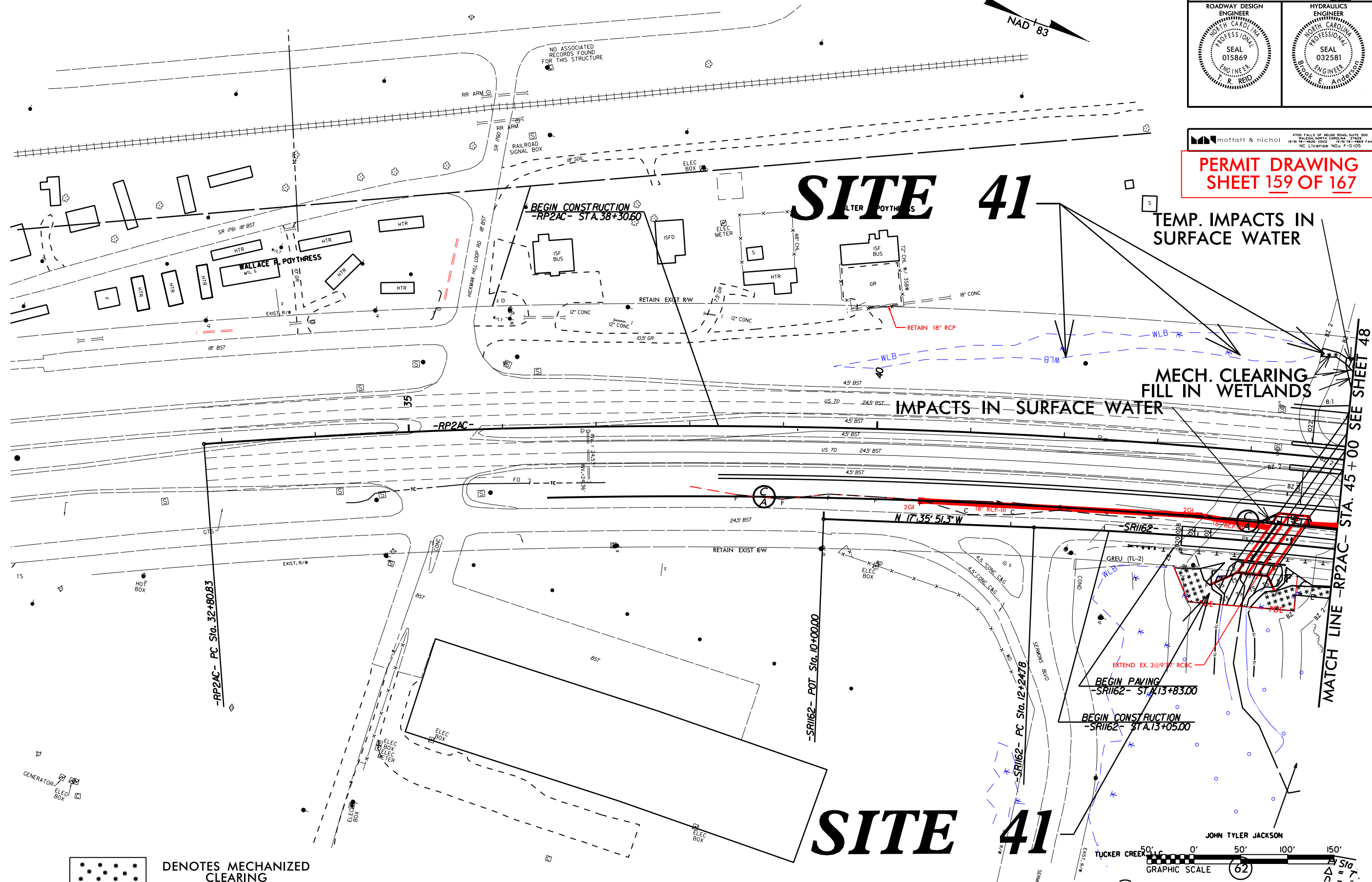
11/16/2018
mgberry

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PROJECT REFERENCE NO.	SHEET NO.
R-1015	47
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	

moffatt & nichol
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NC LICENSE NO. F-0105

PERMIT DRAWING
SHEET 159 OF 167



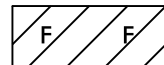
DENOTES MECHANIZED CLEARING



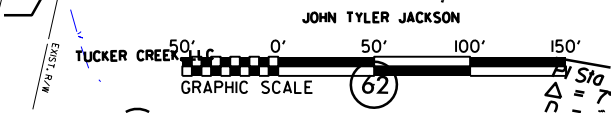
DENOTES IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER



DENOTES FILL IN WETLAND



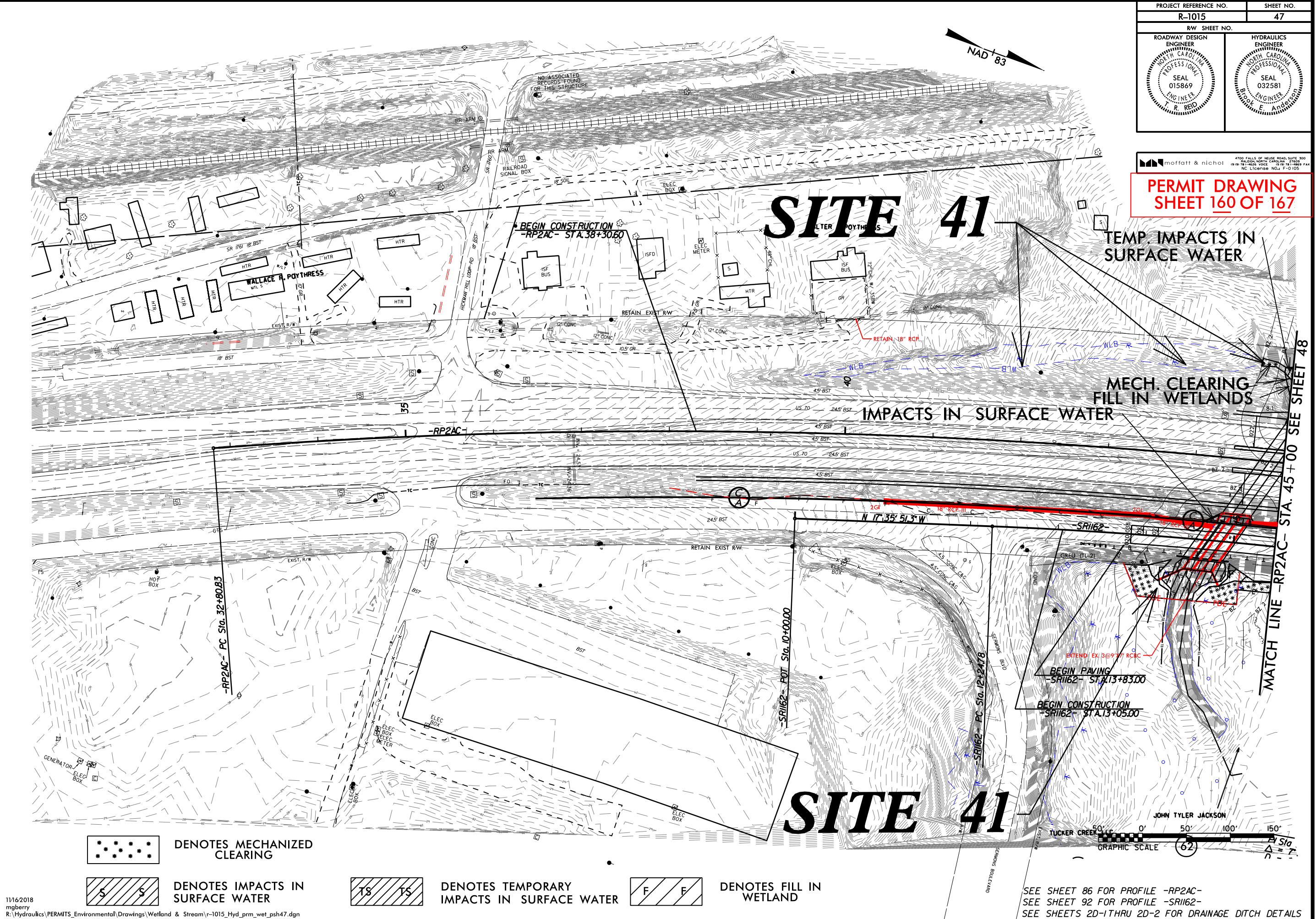
SEE SHEET 86 FOR PROFILE -RP2AC-
SEE SHEET 92 FOR PROFILE -SR162-
SEE SHEETS 2D-1 THRU 2D-2 FOR DRAINAGE DITCH DETAILS

8/17/99

REVISIONS

7/13/2018 - PARCELS 53.62 - REVISED PDE STATION -SRI162- 13+75 TO 15+10 RT
8/14/2018 - PARCEL 63 - REVISED PDE STATION -SRI162- 15+10 TO 15+46 RT
8/14/2018 - PARCEL 53 - REVISED PDE

SYTIME
mgberry
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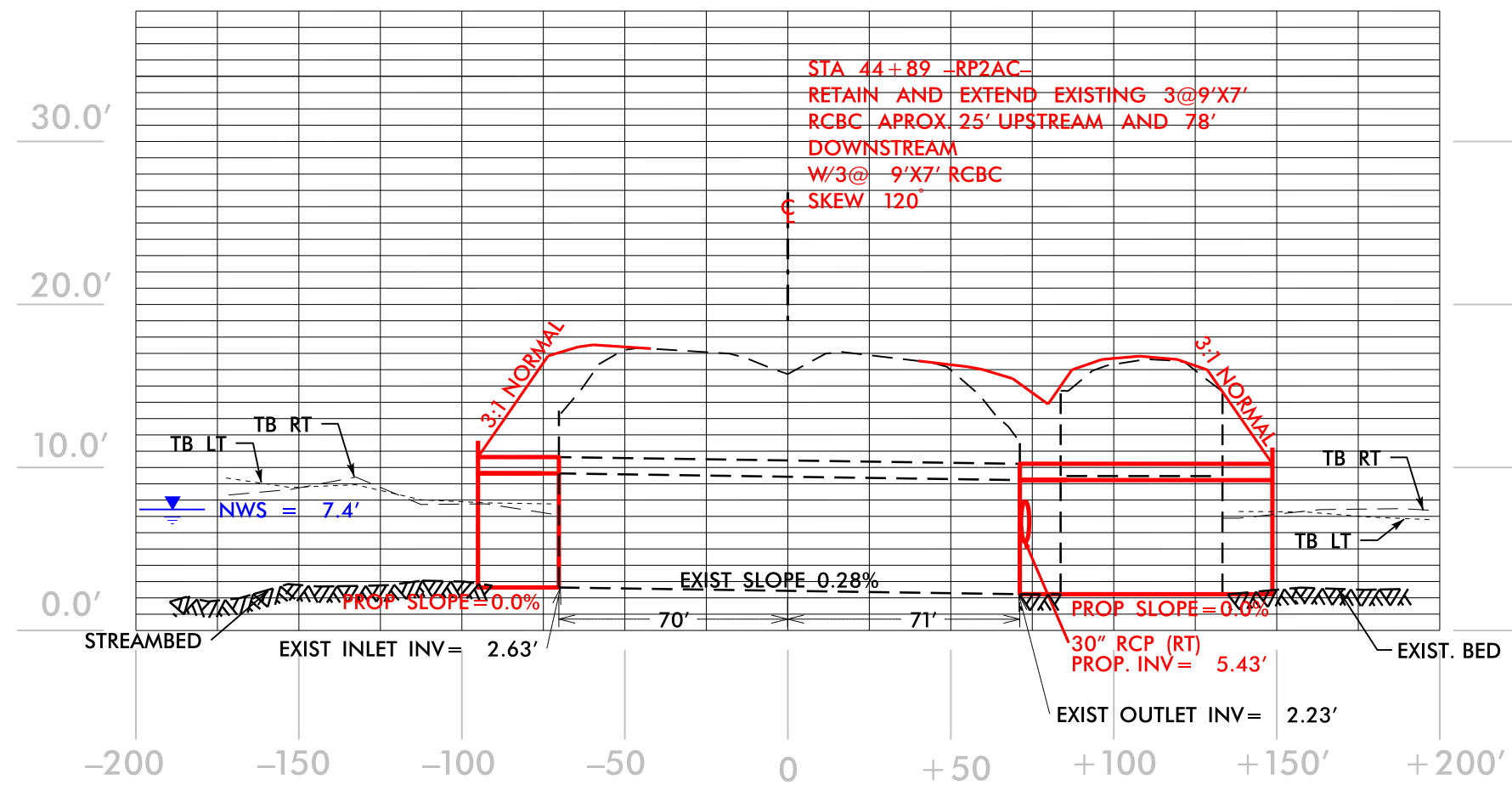
PROJECT REFERENCE NO.	SHEET NO.
R-1015	47
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919) 781-4826 VOICE (919) 781-4888 FAX
NC LICENSE NO. F-0105

PERMIT DRAWING
SHEET 160 OF 167

11/16/2018
mgberry
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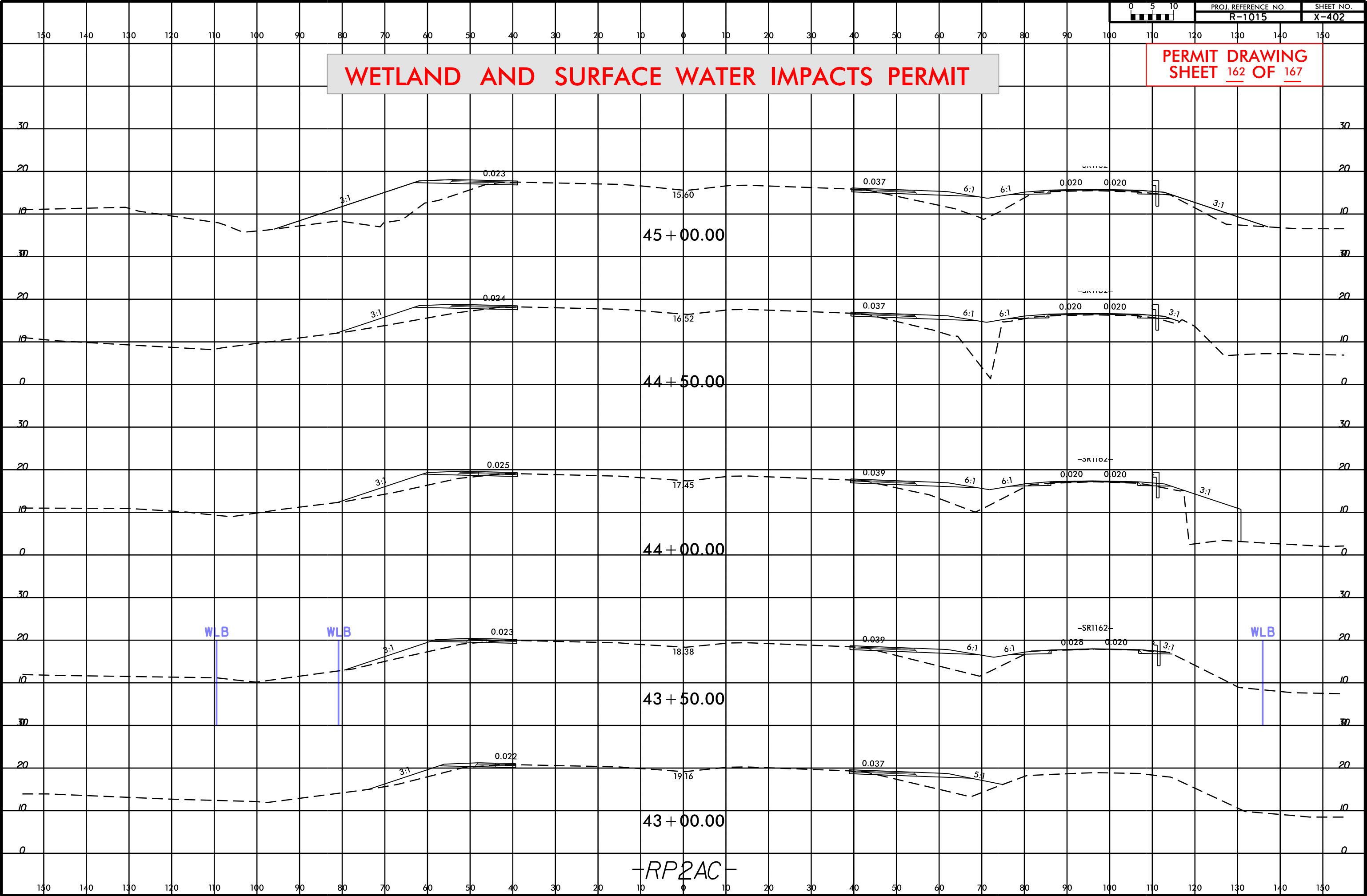
SEE SHEET 86 FOR PROFILE -RP2AC-
SEE SHEET 92 FOR PROFILE -SRI162-
SEE SHEETS 2D-1 THRU 2D-2 FOR DRAINAGE DITCH DETAILS



PROFILE
SITE 41

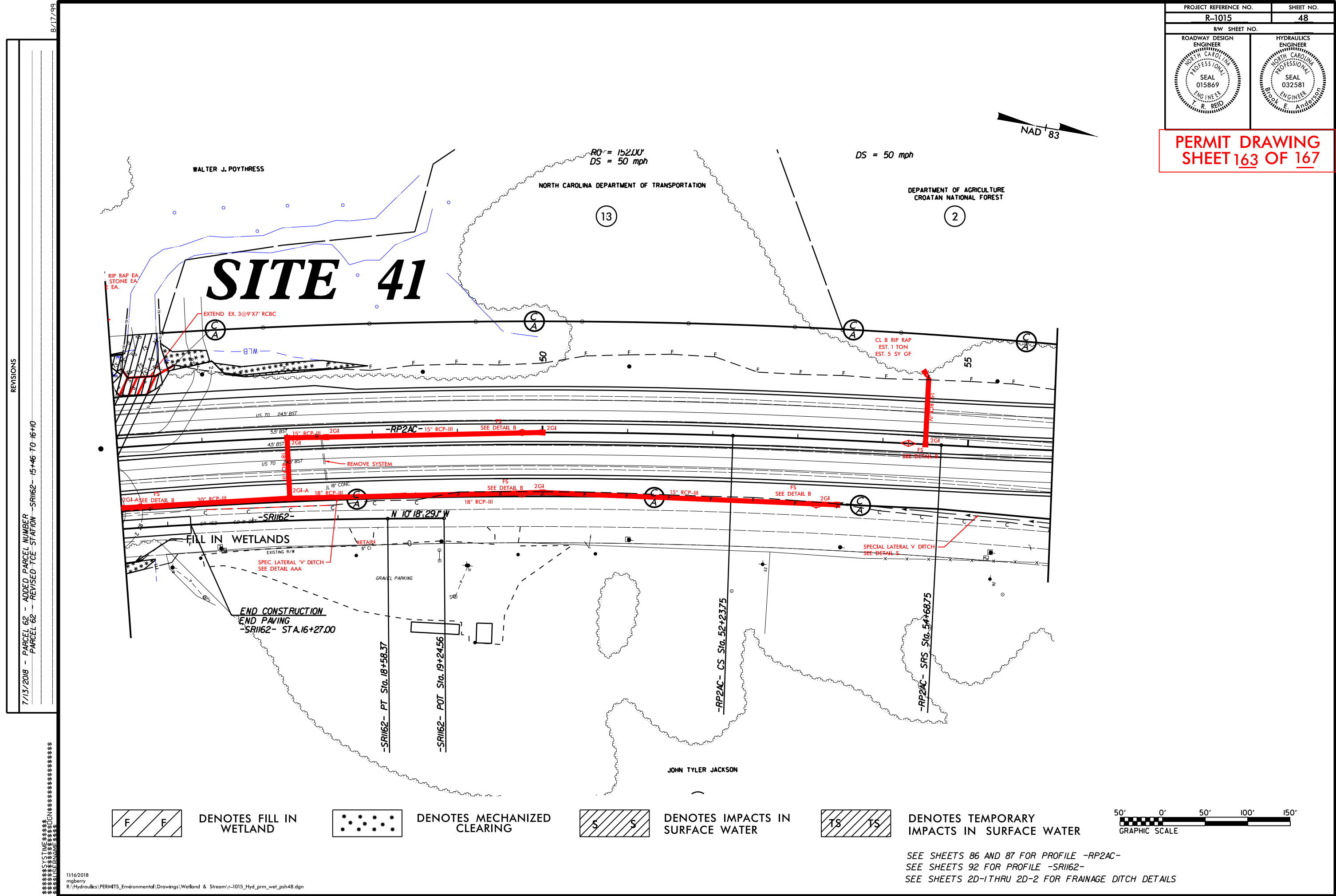
NCDOT
DIVISION OF HIGHWAYS
CRAVEN COUNTY
PROJECT: 34360.1.2 (R-1015)
US 70 (HAVELOCK BYP)
FROM SOUTH OF CARTERET
/ CRAVEN COUNTY LINE
TO SOUTH OF SR 1176
SHEET 161 OF 167 08/01/2018

6/23/16
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PROJECT REFERENCE NO.	SHEET NO.
R-1015	48
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	

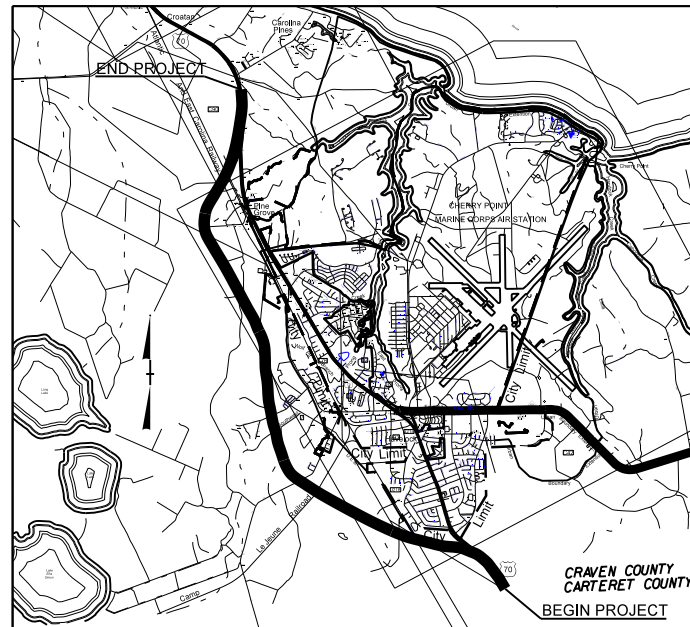
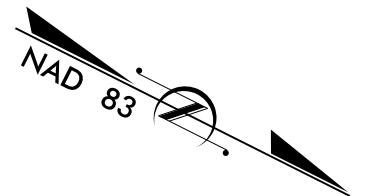
PERMIT DRAWING
SHEET 163 OF 167



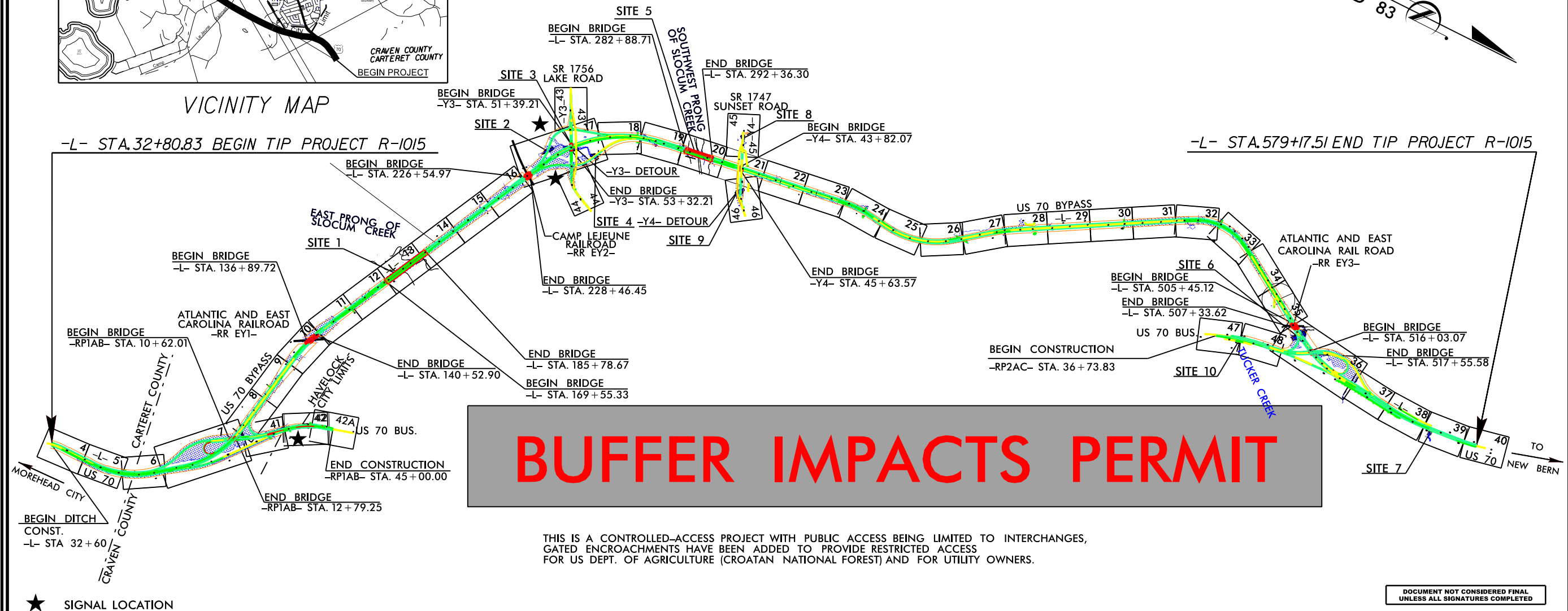
CRAVEN COUNTY

***TYPE OF WORK: GRADING, DRAINAGE, PAVING, WIDENING, CULVERTS
SIGNING, SIGNALS AND STRUCTURES***

BUFFER DRAWING
SHEET 1 OF 20



VICINITY MAP



THIS IS A CONTROLLED-ACCESS PROJECT WITH PUBLIC ACCESS BEING LIMITED TO INTERCHANGES, GATED ENCROACHMENTS HAVE BEEN ADDED TO PROVIDE RESTRICTED ACCESS FOR US DEPT. OF AGRICULTURE (CROATAN NATIONAL FOREST) AND FOR UTILITY OWNERS.

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

ADT 2015 = N/A
ADT 2035 = 22,900
K = 9 %
D = 60 %
T = 7 % *
V = 70 MPH
* TTST 3% DUAL 3%
FUNC. CLASS = FREEWAY
(FUTURE INTERSTATE)

LENGTH OF ROADWAY TIP PROJECT R-1015	=	9.691 MILES
LENGTH OF STRUCTURE TIP PROJECT R-1015	=	0.657 MILES
TOTAL LENGTH OF TIP PROJECT R-1015	=	10.348 MILES

Prepared for NCDOT In the Office of:

 **moffatt & nichol**

4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919) 781-4626 VOICE (919) 781-4869 FAX (F-0105)

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 16, 2016

LETTING DATE:
FEBRUARY 19, 2019

TIM REID, PE
PROJECT ENGINEER

TRENT HUFFMAN, PE
PROJECT DESIGN ENGINEER



SIGNATURE:

**ROADWAY DESIGN
ENGINEER**

moffatt & nichol

SIGNATURE: _____

