



PAT McCRORY  
*Governor*

NICHOLAS J. TENNYSON  
*Secretary*

December 16, 2015

Mr. Tom Steffens  
U.S. Army Corps of Engineers  
Regulatory Field Office  
Post Office Box 1000  
Washington, NC 27889-1000

Mr. Stephen Lane  
N.C. Dept. of Environmental Quality  
Division of Coastal Management  
400 Commerce Avenue  
Morehead City, NC 28557

Dear Sirs:

Subject: **Revised Permit Modification Request for the Section 404 Individual Permit, Section 401 Individual Water Quality Certification and CAMA Major Development Permit** for the proposed improvements to US 70 from existing four lanes at Radio Island to north of Olga Road (SR 1426), Carteret County, State Project No. 8.1162501, Federal Aid Project STPNHF-70(43), TIP R-3307, WBS 34528.1.1.

References: Section 404 Permit No. SAW-2010-02125, issued September 27, 2013  
Section 401 Permit No. 3195, issued April 30, 2012  
CAMA Major Development Permit No. 37-12, issued May 3, 2012  
Section 401 Permit Modification 20111003v3, issued October 2, 2014  
CAMA Major Development Permit Modification, issued October 1, 2014  
Section 404 Permit Modification, issued October 6, 2014  
Section 404 Permit Modification, issued March 31, 2015  
CAMA Major Development Letter of Refinement, issued September 8, 2015

Dear Sirs:

Please see the enclosed revised permit drawings and impact summary sheet for the above referenced project. This revised permit modification request provides changes requested by regulatory agencies as well as updates to the previous request dated November 20, 2015.

As noted during a recent field review, additional rip rap will be required for the 48" RCP at Site 2, resulting in an additional 0.01 acre of fill in CAMA wetlands, 15 feet of permanent stream impact, 24 feet of bank stabilization and 10 feet of temporary stream impact. Mitigation for the additional fill in CAMA wetlands will be debited from the on-site coastal wetland restoration site. The additional permanent stream impacts will be provided by the N.C. Division of Mitigation Services. The acceptance letter will be forwarded upon receipt.



The modification to the 48" RCP at Site 2 also resulted in a 0.01 acre reduction of fill in 404 wetlands and a 0.04 acre reduction of hand clearing in wetlands.

Also note, eight work pads at site 1 have been reduced in dimension; however, impacts totals have not changed since quantities are based on the permanent bridge footprint.

Section 404: We are hereby requesting the modifications described above for the USACE Individual 404 Permit signed September 27, 2013 (SAW-2010-02125), for the above-described activities.

Section 401: We are hereby requesting a modification to the 401 Water Quality Certification from the NCDWR issued, April 30, 2012 (DWQ No. 3195). Authorization to debit \$570 to act as payment for processing the permit modification was provided with the Department's November 20, 2015 request.

CAMA: We are hereby requesting a modification to the Coastal Area Management Act Major Permit issued May 3, 2012. Authorization to debit \$100 to act as payment for processing the permit modification was provided with our November 20, 2015 request.

As you are aware, this project is currently under construction. Therefore, the Department requests that your agency expedite your review and approval to avoid delay.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Tyler Stanton at [tstanton@ncdot.gov](mailto:tstanton@ncdot.gov) or (919) 707-6156.

Sincerely,



for Richard W. Hancock, P.E., Manager  
Project Development and Environmental Analysis Unit

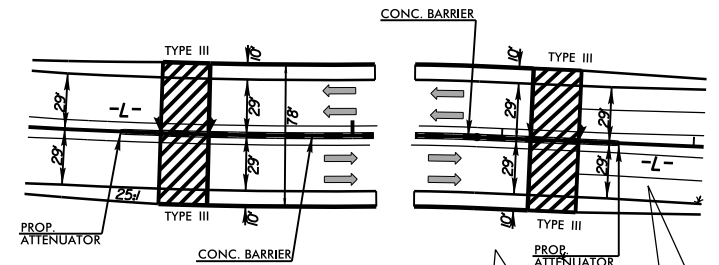
cc:

NCDOT Permit Application Standard Distribution List

**PERMIT REVISION DEC 2015**

On this plan sheet, the Permit Revision of DEC 2015 replaces three temporary work pads that are rectangular with three smaller temporary work pads that are almost square with dimensions of approx. 32' x 30'. The work pads on this sheet are under spans F, G, and H.

This revision does not change impact quantity to wetlands because impacts are based on permanent bridge footprint and not temporary work pad footprint.



**GRASS SWALE DATA**

DA = 0.54 ac  
SLOPE = 0.3%  
L = 181'  
Q2 = 2.0 cfs  
V2 = 0.97 fps  
D2 = 0.8'  
Q10 = 2.7 cfs  
V10 = 1.04 fps  
D10 = 0.9'

-L- STA. 24+69 TO 26+50

**GRASS SWALE DATA**

DA = 0.68 ac  
SLOPE = 0.3%  
L = 98'  
Q2 = 2.9 cfs  
V2 = 1.07 fps  
D2 = 1.0'  
Q10 = 3.8 cfs  
V10 = 1.14 fps  
D10 = 1.1'

-L- STA. 26+50 TO 27+50 LT.

**GRASS SWALE DATA**

DA = 1.15  
SLOPE = 0.3%  
L = 129'  
Q2 = 6.0 cfs  
V2 = 1.26 FPS  
D2 = 1.0'  
Q10 = 7.0 cfs  
V10 = 1.32 FPS  
D10 = 1.0'

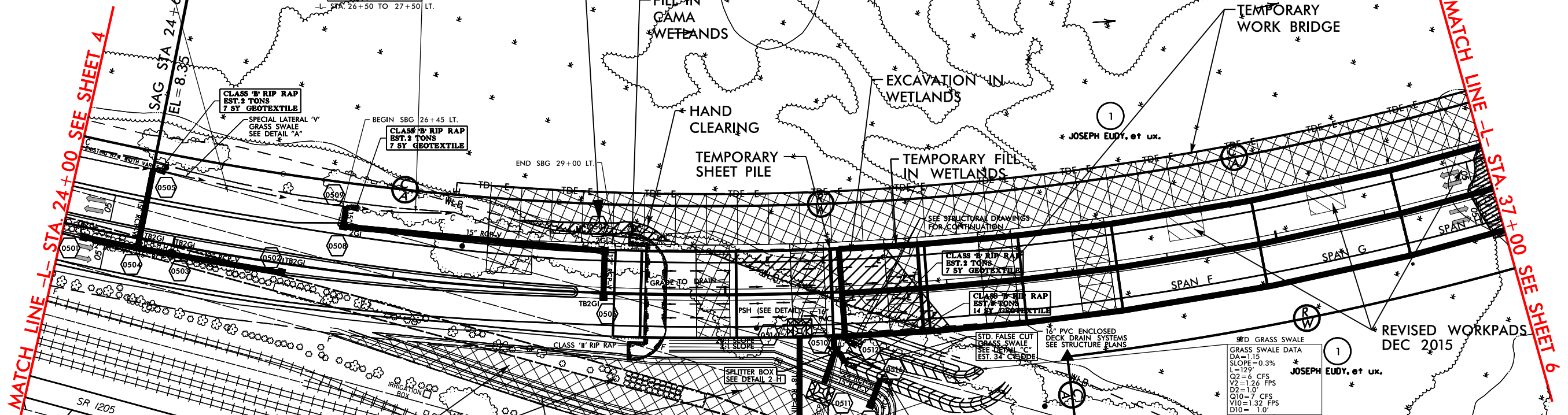
-L- STA. 31+06, 44 RT

**STD. GRASS SWALE BYPASS GS ± SECONDARY BASIN OUTLET**

GS DATA  
DA = 2.96 AC  
S = 1.0%  
L = 160'  
Q2 = 7.0 CFS  
V2 = 1.95 FPS  
D2 = 0.6'  
Q10 = 16 CFS  
V10 = 2.47 FPS  
D10 = 1.0'

-L- STA. 31+05, 64 RT

- DENOTES TEMPORARY FILL IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES HAND CLEARING



MATCH LINE -L- STA. 24+00 SEE SHEET 4

MATCH LINE -L- STA. 37+00 SEE SHEET 6

REVISIONS

SYTIME DESIGN

8/17/99

REVISIONS

# Permit Drawing Sheet 3 of 34 Revised 16 Dec 2015

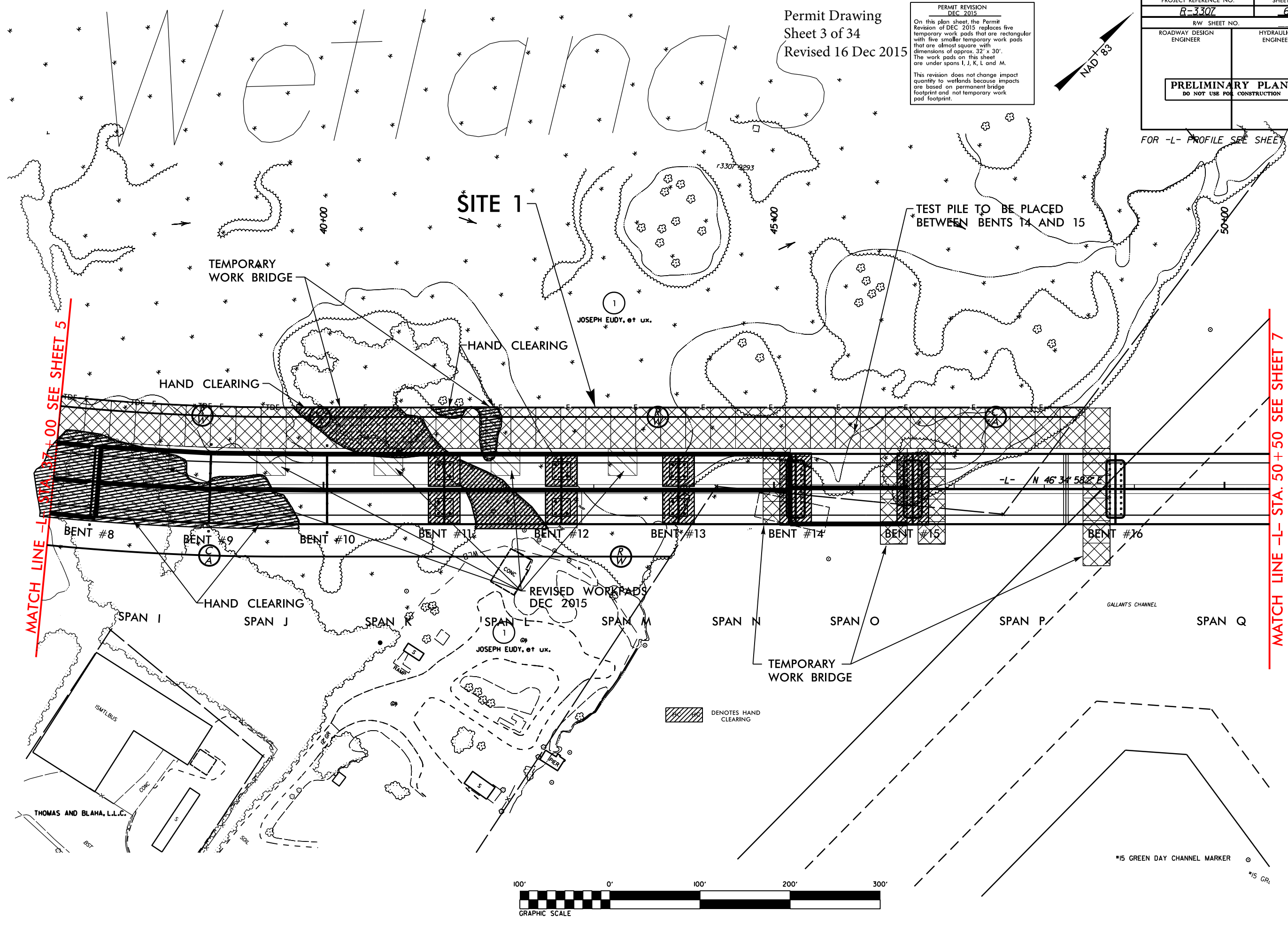
**PERMIT REVISION  
DEC 2015**

On this plan sheet, the Permit Revision of DEC 2015 replaces five temporary work pads that are rectangular with five smaller temporary work pads that are almost square with dimensions of approx. 32' x 30'. The work pads on this sheet are under spans I, J, K, L and M.

This revision does not change impact quantity to wetlands because impacts are based on permanent bridge footprint and not temporary work pad footprint.

PROJECT REFERENCE NO. <b>R-3307</b>	SHEET NO. <b>6</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

FOR -L- PROFILE SEE SHEET 27



MATCH LINE -L- STA. 37+00 SEE SHEET 5

MATCH LINE -L- STA. 50+50 SEE SHEET 7



DESIGNED BY: J. BLAHA  
 CHECKED BY: J. BLAHA  
 DATE: 8/17/99

#15 GREEN DAY CHANNEL MARKER


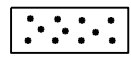
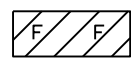

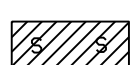
#15 GR.

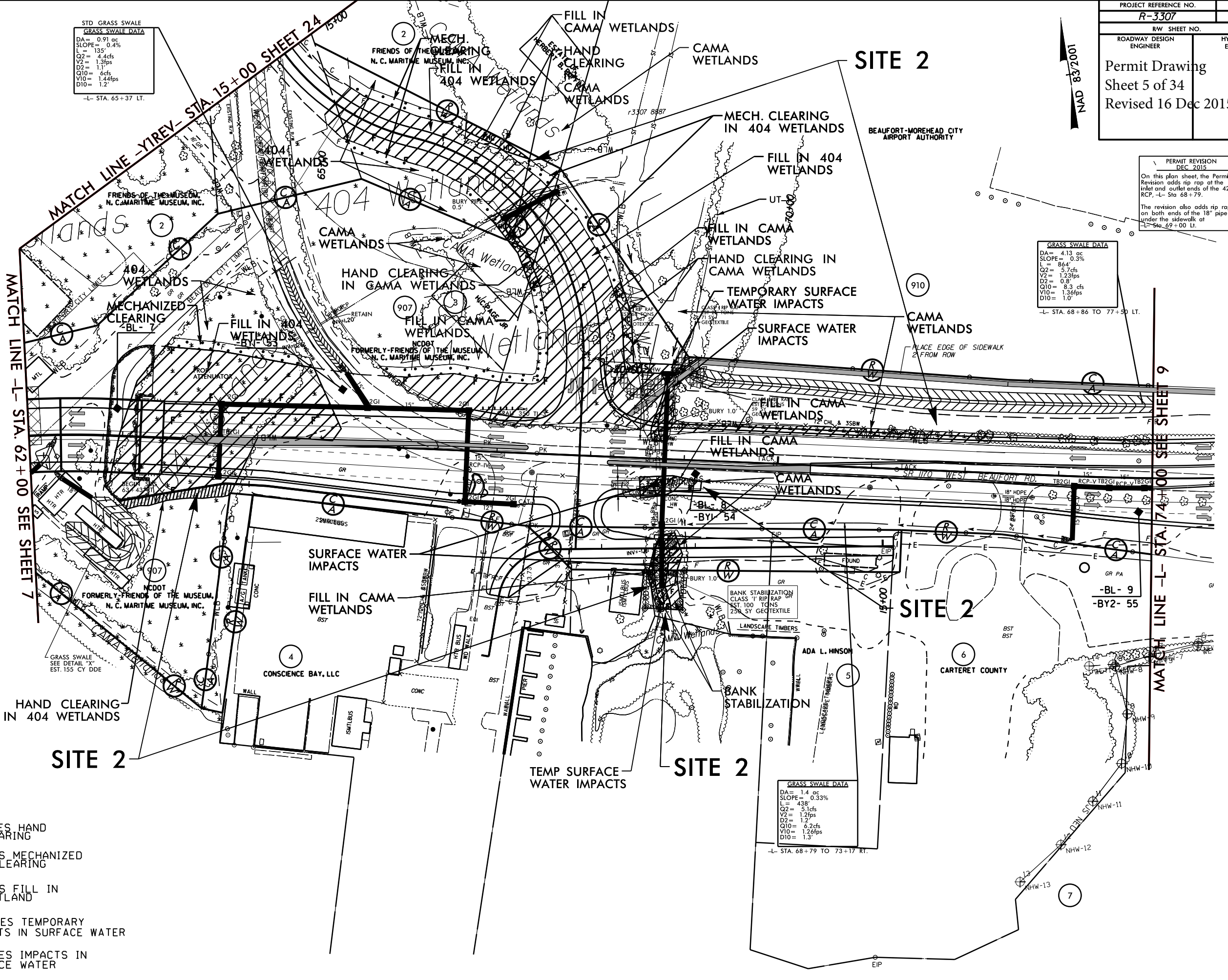
PROJECT REFERENCE NO.	SHEET NO.
R-3307	8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing	
Sheet 5 of 34	
Revised 16 Dec 2015	

PERMIT REVISION  
DEC 2015  
On this plan sheet, the Permit Revision adds rip rap at the inlet and outlet ends of the 42" RCP, -L- Sta 68+79.  
The revision also adds rip rap on both ends of the 18" pipe under the sidewalk at -L- Sta 69+00 Lt.

GRASS SWALE DATA  
DA= 4.13 ac  
SLOPE= 0.3%  
L= 864'  
Q2= 5.7 cfs  
V2= 1.23 fps  
D2= 0.8'  
Q10= 8.3 cfs  
V10= 1.36 fps  
D10= 1.0'  
-L- STA. 68+86 TO 77+50 LT.

GRASS SWALE DATA  
DA= 1.4 ac  
SLOPE= 0.33%  
L= 438'  
Q2= 5.1 cfs  
V2= 1.21 fps  
D2= 1.2'  
Q10= 6.2 cfs  
V10= 1.26 fps  
D10= 1.3'  
-L- STA. 68+79 TO 73+17 RT.

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



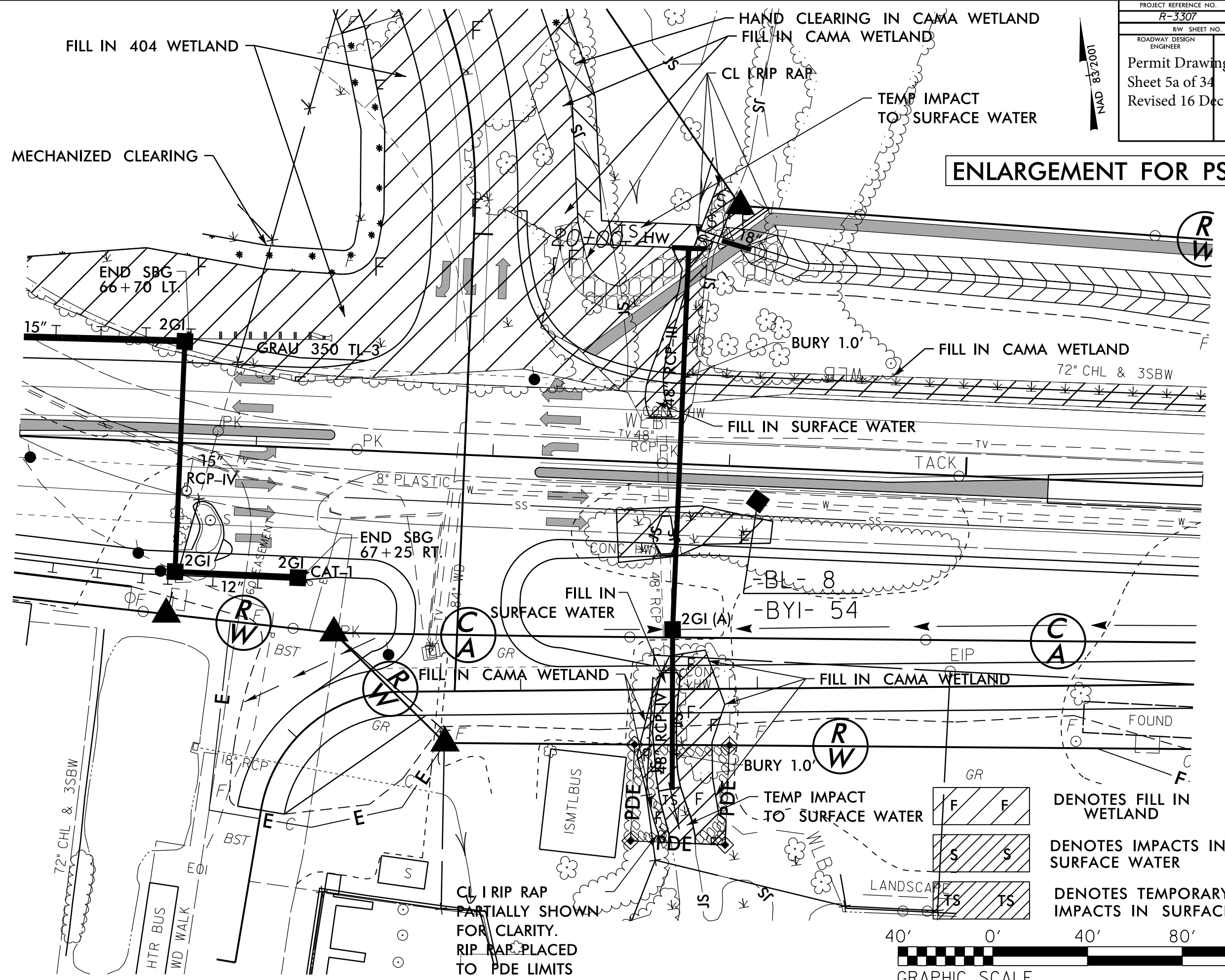
REVISIONS

DESIGNED BY: J. STINE  
CHECKED BY: J. STINE  
DATE: 12/16/15

PROJECT REFERENCE NO. R-3307	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing Sheet 5a of 34 Revised 16 Dec 2015	

**ENLARGEMENT FOR PSH 8**

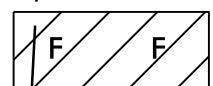

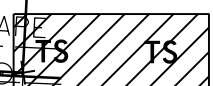
100'  
NAD 83/2000

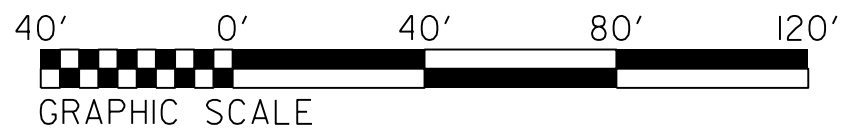


REVISIONS

SYTIME  
DESIGN

CL RIP RAP  
PARTIALLY SHOWN  
FOR CLARITY.  
RIP RAP PLACED  
TO PDE LIMITS

-  DENOTES FILL IN WETLAND
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER



WETLAND PERMIT IMPACT SUMMARY															
Site No.	Station (From/To)	Structure Size / Type	Wetland Restoration (ac)	WETLAND IMPACTS						SURFACE WATER IMPACTS					
				CAMA Permanent Fill In Wetlands (ac)	404 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- STA. 28+10 TO 29+47 LT -L- STA 28+99 TO 63+44	Roadway Fill Bridge		<0.01 0.02	<0.01	0.08	0.48*		0.02 1.02	0.03	0.06				
2	-L- STA. 62+82 TO 72+30 & -Y1REV- STA. 15+74 TO 20+64	48" RCP & Roadway Fill Bank Stabilization		0.28	1.38		<0.01	0.21	0.08	0.03	0.01	139	34		
3	-L- STA. 78+58 TO 79+06 & -Y2- STA. 10+78 TO 11+18 LT	72" RCP Roadway Fill Bank Stabilization								0.04	0.01	165	22		
4	-L- STA. 87+50 TO 92+56	Roadway Fill			**					0.16	<0.01	499	10	***	
5	-L- STA. 171+47 TO 183+92	Roadway Fill			3.98			0.53							
6	-Y2- STA. 13+13 TO 18+77 **** -Y2- STA. 12+33 TO 13+48 RT	Bridge Roadway Fill	1.46	<0.01 0.04		<0.01				<0.01	<0.01				
7	-Y2- STA. 18+66 TO 24+34	Roadway Fill Bank Stabilization		0.20					0.12			8			
<b>TOTALS:</b>				1.46	0.54	5.36	0.08	0.49	0.74	1.24	0.27	0.08	859	66	0.00

\* 0.16 ACRES of EXCAVATION IN CAMA WETLANDS AT END BENT 1 REQUIRED TO PROVIDE ACCESS FOR BRIDGE CONSTRUCTION AND MAINTENANCE / INSPECTION.  
0.32 ACRES OF EXCAVATION AT INTERIOR BENTS 11-15 and 25 REQ'D FOR CONSTRUCTION. TOTAL EXCAVATION: 0.48 ACRES.

\*\* 0.18 ACRES of ISOLATED WETLANDS

\*\*\* NEW BASE DITCH TO BE EXCAVATED PARALLEL TO EXISTING BASE DITCH. PROVIDES DRAINAGE FOR AIRPORT PROPERTY. MITIGATION NOT REQUIRED PER 4C MEETING ON 20 OCT 2010.

\*\*\*\* CAUSEWAY REMOVAL: SITE 6

**SEDIMENT & EROSION CONTROL MEASURES:**

0.04 acres of Temporary Fill in CAMA Wetlands in the Hand Clearing areas for erosion control measures.

BRIDGE IMPACTS: Impacts for permanent and temporary bents are included in table above. Break-out for impacts are as follows:

**Gallants Channel Bridge**  
Perm. Fill in CAMA wetlands: 0.02 Ac  
Mech. Clr. in CAMA wetlands:  
Hand Clr. in CAMA wetlands: 0.99 Ac  
Perm. Fill in 404 wetlands: <0.01 Ac  
Hand Clr. in 404 wetlands: 0.08 Ac  
Perm. Fill in Surface Waters: 0.03 Ac

Temp. Fill in wetlands: 0.07 Ac  
Temp. Fill in Surface Waters: 0.06 Ac.

**Turner Street Bridge**  
Perm. Fill in CAMA wetlands: <0.01 Ac  
Perm. Fill in 404 wetlands: 0 Ac  
Perm. Fill in Surface Waters: <0.01 Ac  
  
Temp. Fill in wetlands: <0.01 Ac  
Temp. Fill in Surface Waters: <0.01 Ac.

REVISION - DEC 2015: Revised Temp Work Pads under Gallant Channel Bridge. Added Rip Rap at inlet and outlet of 48" pipe, -L- Sta 68+79. The revision to the work pads do not change the impact to any jurisdictional feature. Also, three bridges and four pipes will be removed from the airport ditch. No impacts are shown for removal of these items.

Permit Drawing  
Sheet 34 of 34  
Revised 16 Dec 2015

CONSTRUCTION REVISION  
15-Dec-15

N.C.D.O.T.  
DIVISION OF HIGHWAYS  
CARTERET COUNTY  
PROJECT: 34528.1.1 (R-3307)  
US 70 FROM EXISTING FOUR LANES  
AT RADIO ISLAND TO US 70 NORTH  
OF SR 1429 (OLGA ROAD)