



PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

November 20, 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: **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, Debit \$570 (NCDWR) and \$100 (NCDCM) from 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.

The contractor is requesting an additional 0.14 acre of hand clearing at Site 1, to accommodate additional work pads (timber mats) under the proposed bridge for construction access. Additionally, the contractor is requesting a modification for the installation of the 48" RCP at Site 2, resulting in an additional 0.03 acre of fill in CAMA wetlands and 0.01 acre of surface water fill. Mitigation for the additional fill will be debited from the on-site coastal wetland restoration.

Permit drawing sheets 6 and 7 have been revised to show the removal of small bridges and pipes along a channel adjacent to the Beaufort Morehead City Airport. These will not be replaced.



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). We are providing \$570 to act as payment for processing the permit modification (see subject line).

CAMA: We are hereby requesting a modification to the Coastal Area Management Act Major Permit issued May 3, 2012. We are providing \$100 to act as payment for processing the permit modification (see subject line).

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 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
13 NOV 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

-Y1-
PI Sta 12+32.15
Δ = 68° 34' 30.8" (LT)
D = 24' 22" 52.3"
L = 281.26'
T = 160.23'
R = 235.00'
SE = .06

-Y1-
PI Sta 15+42.09
Δ = 76° 42' 04.0" (RT)
D = 38' 1" 49.9"
L = 200.80'
T = 118.68'
R = 150.00'

STD GRASS SWALE
GRASS SWALE DATA
DA = 0.91 ac
SLOPE = 0.4%
Q₁ = 13.5 cfs
Q₂ = 4.4 cfs
V₁ = 1.9 fps
D₂ = 11"
V₁₀ = 0.8 fps
D₁₀ = 1.4 fps
D₁₀ = 1.2'

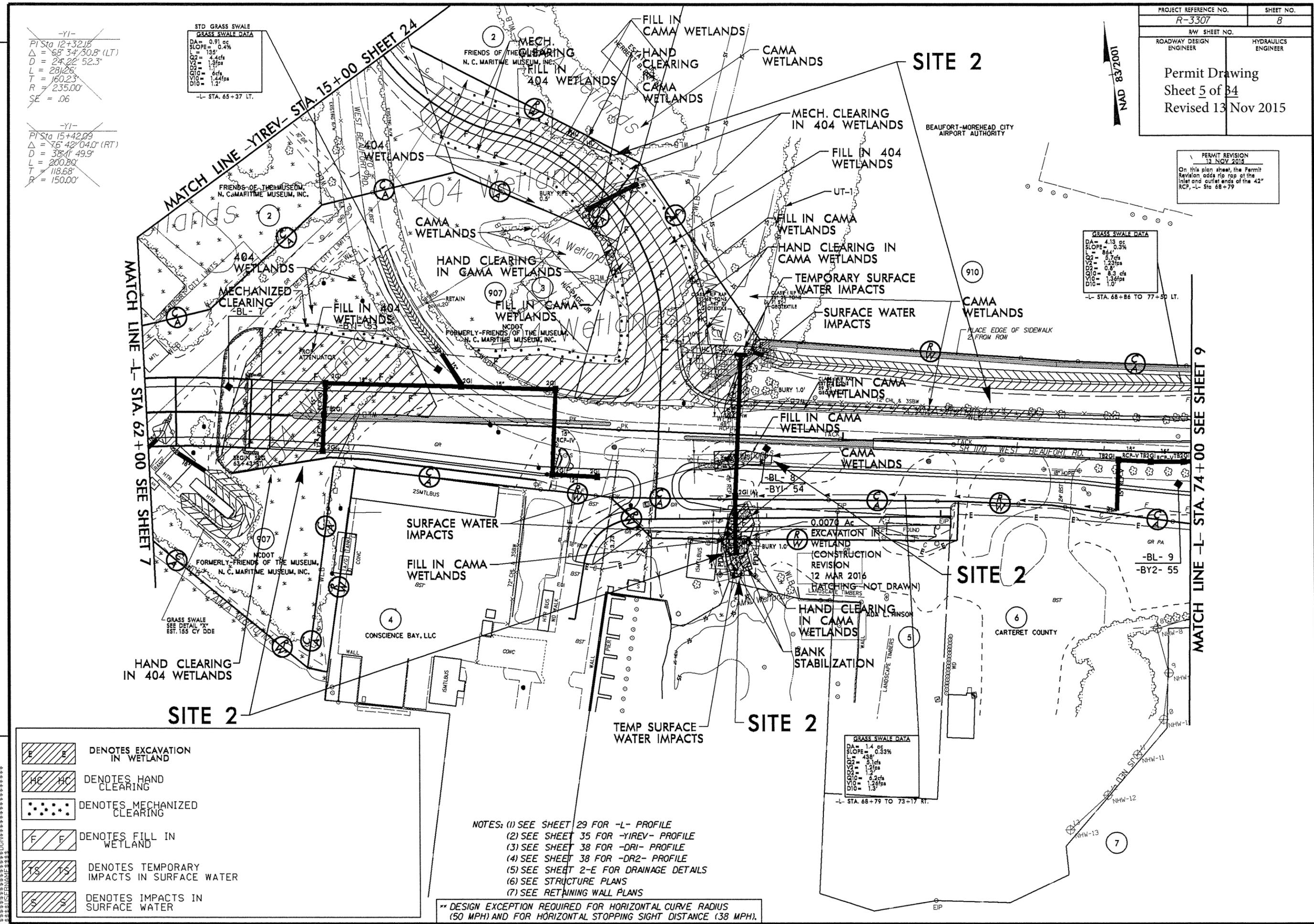
GRASS SWALE DATA
DA = 4.13 ac
SLOPE = 0.3%
Q₁ = 86.4 cfs
Q₂ = 5.7 cfs
V₁ = 1.23 fps
D₂ = 0.8'
V₁₀ = 0.3 fps
D₁₀ = 1.34 fps
D₁₀ = 1.0'

GRASS SWALE DATA
DA = 1.4 ac
SLOPE = 0.33%
Q₁ = 4.8 cfs
Q₂ = 5.1 cfs
V₁ = 1.2 fps
D₂ = 1.2'
V₁₀ = 0.2 cfs
D₁₀ = 1.2 fps
D₁₀ = 1.3'

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

NOTES: (1) SEE SHEET 29 FOR -L- PROFILE
(2) SEE SHEET 35 FOR -YIREV- PROFILE
(3) SEE SHEET 38 FOR -DRI- PROFILE
(4) SEE SHEET 38 FOR -DR2- PROFILE
(5) SEE SHEET 2-E FOR DRAINAGE DETAILS
(6) SEE STRUCTURE PLANS
(7) SEE RETAINING WALL PLANS

** DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE RADIUS (50 MPH) AND FOR HORIZONTAL STOPPING SIGHT DISTANCE (38 MPH).

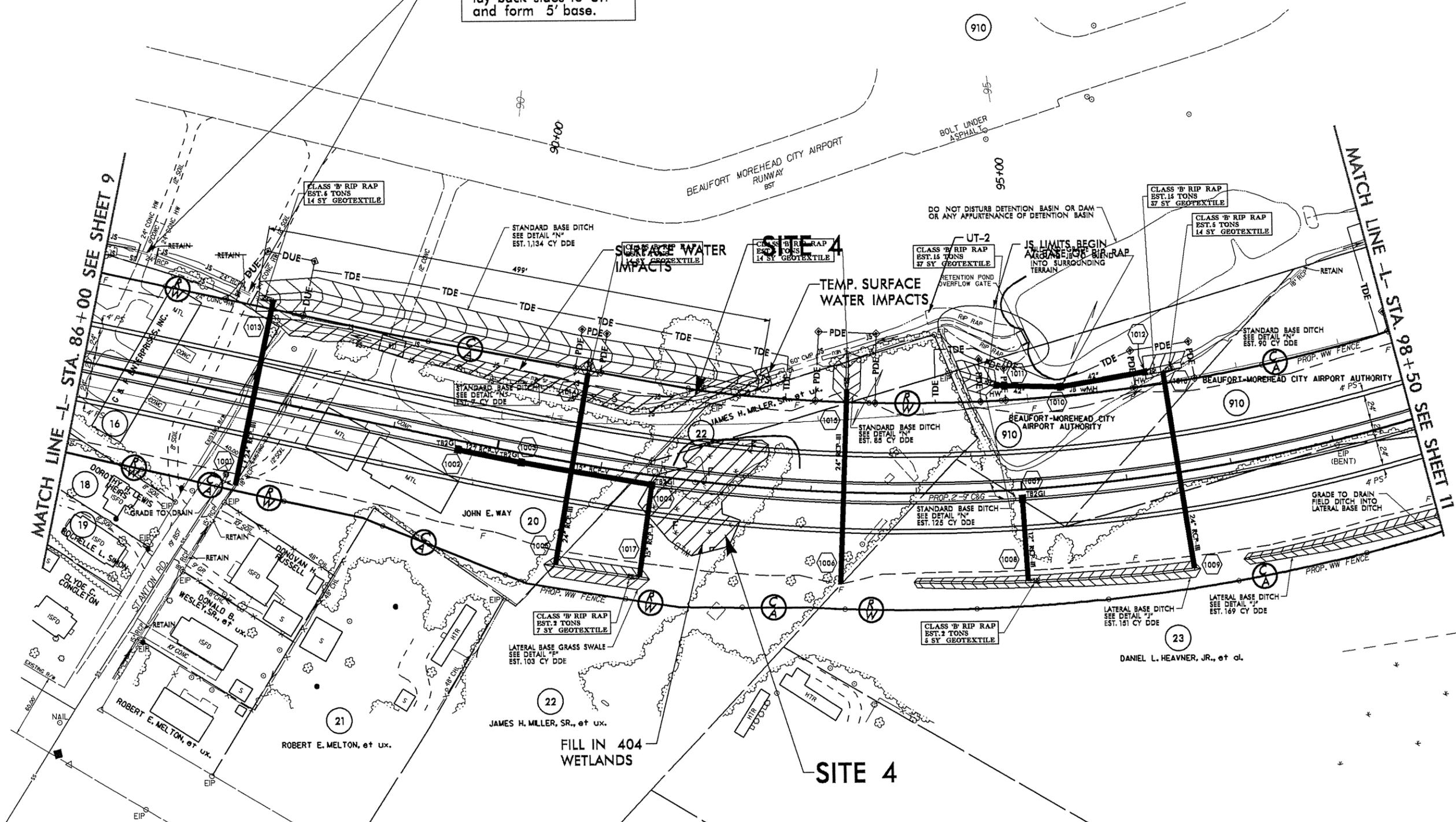


REVISIONS

MATCH LINE -L- STA. 74+00 SEE SHEET 9

R-3307		10
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
Permit Drawing Sheet 7 of 34 Revised 13 Nov 2015		

PERMIT REVISION
13 NOV 2015
Remove bridges & pipe
from channel.
For in-channel work,
lay back sides to 3:1
and form 5' base.



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

NOTES: (1) SEE SHEET 30 FOR -LREV- PROFILE
(2) SEE SHEET 2-E FOR DRAINAGE DETAILS

REVISIONS

DATE: 11/13/2015 10:58 AM

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		0.27	1.39		<0.01	0.21	0.12	0.03	0.01	124	24		
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			
TOTALS:				1.46	0.53	5.37	0.08	0.49	0.74	1.28	0.27	0.08	820	56	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 - 13 NOV 2015: Added Temp Work Pads under Gallant Channel Bridge. Added Rip Rap at inlet and outlet of 42" pipe, -L- Sta 68+79
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 13 Nov 2015

CONSTRUCTION REVISION
13-Nov-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)
SHEET (08/SEP/2014)