



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

January 14, 2014

Addendum No. 1

RE: Contract ID C202848

WBS # 34528.3.FR1

F.A. #STPNHF-0070(132)

Carteret County (R-3307)

US-70 From Existing 4 Lanes At Radio Island To US-70

North Of SR-1429 (Olga Road)

January 21, 2014 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

The following revision has been made to the Roadway plans:

On Sheet No. 3-J the "Summary of Bridge Waiting Periods" has been revised. Please void Sheet No. 3-J in your plans and staple the revised Sheet No. 3-J thereto.

On Sheet No. TMP-3 the phasing notes in Phase 3 and Phase 4 have been revised concerning the removal of the existing structure. Please void Sheet No. TMP-3 in your plans and staple the revised Sheet No. TMP-3 thereto.

The following revision has been made to the Structure plans:

Sheet	Revisions
S-6	Added depiction and note for sunken barge to be removed
S-26	Added pay item for Removal of Existing Barge
S-27	Added note "For Removal Of Existing Barge, see special provisions"
S-83	The 4 th note in the 1 st column and the last note in the 3 rd column was revised to allow limited pipe supports through girder flanges
S-87	In the section views the depiction of inserts are now shown in the girder flanges

Please delete the above listed sheets in your plans and staple the revised sheets thereto.

New Sheet No. W-3 has been added to the plans to show details for segmental block wall option. Please staple New Sheet No. W-3 in your plans after Sheet No. W-2.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT UNIT
1591 MAIL SERVICE CENTER
RALEIGH NC 27699-1591

TELEPHONE: 919-707-6900
FAX: 919-250-4119
WEBSITE: www.ncdot.gov

LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

The following revisions have been made to the proposal:

The Table of Contents has been revised to reflect the below noted changes to the ICT's. Please void the Table of Contents in your proposal and staple the revised Table of Contents thereto.

On Page No. 1 the completion date was revised within the project special provisions entitled "Contract Time and Liquidated Damages" and "Intermediate Contract Time Number 1 and Liquidated Damages". The liquidated damages amount was reduced in the project special provision entitled "Intermediate Contract Time Number 1 and Liquidated Damages". Please void Page No. 1 in your proposal and staple the revised Page No. 1 thereto.

New Page No. 1A has been added to include a new project special provision entitled "Intermediate Contract Time Number 2 and Liquidated Damages". Please staple New Page No. 1A after revised Page No. 1 in your proposal.

Page Nos. 2 and 3 were revised to renumber the existing ICT's. Please void Page Nos. 2 and 3 in your proposal and staple the revised Page Nos. 2 and 3 thereto.

On Page No. 5 the progress percentages have been revised within the project special provision entitled "Schedule of Estimated Completion Progress". Please void Page No. 5 in your proposal and staple the revised Page No. 5 thereto.

On Page No. 33 an item was added to the list of "Building Removals". Please void Page No. 33 in your proposal and staple the revised Page No. 33 thereto.

On Page No. 62 the project special provision entitled "Temporary Detours" has been added. Please void Page No. 62 in your proposal and staple the revised Page No. 62 thereto.

On Page No. 95 the first paragraph on that page was revised. Also, a optional location was added for the test pile. Please void Page No. 95 in your proposal and staple the revised Page No. 95 thereto.

On Page No. 96 the first sentence in the first paragraph under "Instrumentation and Data Collection" was revised. Please void Page No. 96 in your proposal and staple the revised Page No. 96 thereto.

On Page No. 103 the date for "Progress Energy Carolinas, Inc" was revised in the project special provision entitled "Utilities By Others". Please void Page No. 103 in your proposal and staple the revised Page No. 103 thereto.

On Page No. 169 the Structures "Table of Contents" was revised to reflect the addition of two new special provisions. Please void Page No. 169 in your proposal and staple the revised Page No. 169 thereto.

New Page Nos. 248A and 248B have been added to include the project special provisions entitled "Removal Of Existing Structure At Station 46+21.50-L-" and "Removal Of Existing Barge At Station 45+24.00-L-". Please staple New Page Nos. 248A and 248B after existing Page No. 248 in your proposal.

Page No. R-1 has been revised to indicate that permits have been received. Please void Page No. R-1 in your proposal and staple the revised Page No. R-1 thereto.

New Page Nos. R-2 thru R-1116 have been added to include the permits required for the project. Please staple New Page Nos. R-2 thru R-116 in your proposal after revised Page No. R-1.

On the item sheets the following pay items have been revised, added or deleted:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
222-8035000000-N-402	Removal of Existing Structure At Station 46+21.50-L-	Lump Sum	DELETED
222-8049000000-N-SP	Removal of Existing Structure At Station 46+21.50-L-	NEW ITEM	Lump Sum
258-8860000000-N-SP	Removal of Existing Barge At Station 45+24.00-L-	NEW ITEM	Lump Sum

The Contractor's bid must be based on this revised pay items. The contract will be prepared accordingly.

The Expedite File has been updated to reflect these revisions. Please download the Expedite Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

Sincerely,



R. A. Garris, PE
Contract Officer

RAG/jag
Attachments

cc: Mr. Ron Hancock, PE
Mr. John Rouse, PE
Ms. D. M. Barbour, PE
Mr. J. V. Barbour, PE
Mr. G. R. Perfetti, PE
Mr. R.E. Davenport, PE
Project File (2)

Mr. Ray Arnold, PE
Ms. Natalie Roskam, PE
Mr. Ronnie Higgins
Ms. Marsha Sample
Ms. Penny Higgins
Ms. Jaci Kincaid
Ms. Lori Strickland

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PROJECT SPECIAL PROVISIONS**GENERAL****CONTRACT TIME AND LIQUIDATED DAMAGES:**

(8-15-00) (Rev. 12-18-07)

108

SP1 G07 A

The date of availability for this contract is **March 3, 2014**, except the Contractor shall not begin **Phase II, Step 2** as shown on **Traffic Management Plans** until **April 1, 2015**, and work in jurisdictional waters and wetlands shall not begin until a meeting between the DOT, Regulatory Agencies, and the Contractor is held as stipulated in the permits contained elsewhere in this proposal. This delay in availability has been considered in determining the contract time for this project.

The completion date for this contract is **January 11, 2019**.

Except where otherwise provided by the contract, observation periods required by the contract will not be a part of the work to be completed by the completion date and/or intermediate contract times stated in the contract. The acceptable completion of the observation periods that extend beyond the final completion date shall be a part of the work covered by the performance and payment bonds.

The liquidated damages for this contract are **Two Hundred Dollars (\$200.00)** per calendar day. These liquidated damages will not be cumulative with any liquidated damages which may become chargeable under Intermediate Contract Time Number 1.

INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES:

(7-1-95) (Rev. 2-21-12)

108

SP1 G13 A

Except for that work required under the Project Special Provisions entitled *Planting, Reforestation* and/or *Permanent Vegetation Establishment*, included elsewhere in this proposal, the Contractor will be required to complete all work included in this contract and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is **March 3, 2014**, except the Contractor shall not begin **Phase II, Step 2** as shown on **TMP** until **April 1, 2015**. This delay in availability has been considered in determining the time for this intermediate contract time.

The completion date for this intermediate contract time is **July 15, 2018**.

The liquidated damages for this intermediate contract time are **One Thousand Dollars (\$1,000.00)** per calendar day.

Upon apparent completion of all the work required to be completed by this intermediate date, a final inspection will be held in accordance with Article 105-17 and upon acceptance, the Department will assume responsibility for the maintenance of all work except *Planting, Reforestation* and/or *Permanent Vegetation Establishment*. The Contractor will be responsible for and shall make corrections of all damages to the completed roadway caused by his planting operations, whether occurring prior to or after placing traffic through the project.

INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES:

(6-18-13)

108

SPI G14 L

The Contractor shall complete the work required of **Phase IV, Step 5** as shown on Sheet(s) **TMP-3** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is **March 3, 2014, except the Contractor shall not begin Phase II, Step 2 as shown on TMP until April 1, 2015. This delay in availability has been considered in determining the time for this intermediate contract time.**

The completion date for this intermediate contract time is **September 15, 2017.**

The liquidated damages are **Four Thousand Dollars (\$4,000.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES:

(2-20-07)

108

SPI G14 A

The Contractor shall complete the required work of installing, maintaining, and removing the traffic control devices for lane closures and restoring traffic to a **minimum two-lane, two-way** traffic pattern. The Contractor shall not close or narrow a lane of traffic on **Existing US 70 and NC 101** during the following time restrictions:

DAY AND TIME RESTRICTIONS**Between Labor Day and Memorial Day****Monday through Friday****From 7:00 AM to 9:00 AM****And 4:00 PM to 6:00 PM****Between Memorial Day and Labor Day****Monday through Thursday****From 7:00 AM to 9:00 AM****And 4:00 PM to 6:00 PM****And****Friday from 7:00 AM to Monday 9:00 AM**

In addition, the Contractor shall not close or narrow a lane of traffic on **Existing US 70 and NC 101**, detain and/or alter the traffic flow on or during holidays, holiday weekends, special events, or any other time when traffic is unusually heavy, including the following schedules:

HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS

1. For **unexpected occurrence** that creates unusually high traffic volumes, as directed by the Engineer.
2. For **Easter**, between the hours of **7:00 a.m.** Thursday and **6:00 p.m.** Monday.
3. For **Memorial Day**, between the hours of **7:00 a.m.** Friday and **6:00 p.m.** Tuesday.
4. For **Independence Day**, between the hours of **7:00 a.m.** the day before Independence Day and **6:00 p.m.** the day after Independence Day.

If **Independence Day** is on a Friday, Saturday, Sunday or Monday, then between the hours of **7:00 a.m.** the Thursday before Independence Day and **6:00 p.m.** the Tuesday after Independence Day.

5. For **Labor Day**, between the hours of **7:00 a.m.** Friday and **6:00 p.m.** Tuesday.

Holidays and holiday weekends shall include Easter, Memorial Day, Independence Day, and Labor Day. The Contractor shall schedule his work so that lane closures will not be required during these periods, unless otherwise directed by the Engineer.

The time of availability for this intermediate contract work shall be the time the Contractor begins to install all traffic control devices for lane closures according to the time restrictions listed herein.

The completion time for this intermediate contract work shall be the time the Contractor is required to complete the removal of all traffic control devices for lane closures according to the time restrictions stated above and place traffic in a **minimum two-lane, two-way** traffic pattern.

The liquidated damages are **Seven Hundred and Fifty Dollars (\$ 750.00)** per hour.

INTERMEDIATE CONTRACT TIME NUMBER 4 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SP1 G14 F

The Contractor shall complete the work required of **Phase III, Steps 5 thru 7** as shown on Sheet(s) **TMP-3** and shall place and maintain traffic on same.

The time of availability for this intermediate contract time **will be the Friday at 6:00 P.M.** that the Contractor elects to begin the work.

The completion time for this intermediate contract time **will be following Monday at 7:00 A.M.** after the time of availability.

The liquidated damages are **Seven Hundred and Fifty Dollars (\$ 750.00)** per hour.

PERMANENT VEGETATION ESTABLISHMENT:

(2-16-12) (Rev. 10-15-13)

104

SP1 G16

Establish a permanent stand of the vegetation mixture shown in the contract. During the period between initial vegetation planting and final project acceptance, perform all work necessary to establish permanent vegetation on all erodible areas within the project limits, as well as, in borrow and waste pits. This work shall include erosion control device maintenance and installation, repair seeding and mulching, supplemental seeding and mulching, mowing, and fertilizer topdressing, as directed. All work shall be performed in accordance with the applicable section of the *2012 Standard Specifications*. All work required for initial vegetation planting shall be performed as a part of the work necessary for the completion and acceptance of the Intermediate Contract Time (ICT). Between the time of ICT and Final Project acceptance, or otherwise referred to as the vegetation establishment period, the Department will be responsible for preparing the required National Pollutant Discharge Elimination System (NPDES) inspection records.

Once the Engineer has determined that the permanent vegetation establishment requirement has been achieved at an 80% vegetation density (the amount of established vegetation per given area to stabilize the soil) and no erodible areas exist within the project limits, the Contractor will be notified to remove the remaining erosion control devices that are no longer needed. The Contractor will be responsible for, and shall correct any areas disturbed by operations performed in permanent vegetation establishment and the removal of temporary erosion control measures, whether occurring prior to or after placing traffic on the project.

The pay items and the fuel factor used in calculating adjustments to be made will be as follows:

Description	Units	Fuel Usage Factor Diesel
Unclassified Excavation	Gal/CY	0.29
Borrow Excavation	Gal/CY	0.29
Class IV Subgrade Stabilization	Gal/Ton	0.55
Aggregate Base Course	Gal/Ton	0.55
Asphalt Concrete Base Course, Type _____	Gal/Ton	2.90
Asphalt Concrete Intermediate Course, Type _____	Gal/Ton	2.90
Asphalt Concrete Surface Course, Type _____	Gal/Ton	2.90
Open-Graded Asphalt Friction Course	Gal/Ton	2.90
Sand Asphalt Surface Course, Type _____	Gal/Ton	2.90
Aggregate for Cement Treated Base Course	Gal/Ton	0.55
Portland Cement for Cement Treated Base Course	Gal/Ton	0.55
____ " Portland Cement Concrete Pavement	Gal/SY	0.245
Concrete Shoulders Adjacent to ____ " Pavement	Gal/SY	0.245

PAYOUT SCHEDULE:

(1-19-10) (Rev. 1-17-12)

108

SP1 G57

Submit an Anticipated Monthly Payout Schedule prior to beginning construction. The Anticipated Monthly Payout Schedule will be used by the Department to monitor funding levels for this project. Include a monthly percentage breakdown (in terms of the total contract amount) of the work anticipated to be completed. The schedule should begin with the date the Contractor plans to begin construction and end with the anticipated completion date. Submit updates of the Anticipated Monthly Payout Schedule on March 15, June 15, September 15, and December 15 of each calendar year until project acceptance. Submit the original Anticipated Monthly Payout Schedule and all subsequent updates to the Resident Engineer with a copy to the State Construction Engineer at 1 South Wilmington Street, 1543 Mail Service Center, Raleigh, NC 27699-1543.

SCHEDULE OF ESTIMATED COMPLETION PROGRESS:

(7-15-08) (Rev. 5-21-13)

108-2

SP1 G58

The Contractor's attention is directed to the Standard Special Provision entitled *Availability of Funds Termination of Contracts* included elsewhere in this proposal. The Department of Transportation's schedule of estimated completion progress for this project as required by that Standard Special Provision is as follows:

	<u>Fiscal Year</u>	<u>Progress (% of Dollar Value)</u>
2014	(7/01/13 - 6/30/14)	10% of Total Amount Bid
2015	(7/01/14 - 6/30/15)	32% of Total Amount Bid
2016	(7/01/15 - 6/30/16)	25% of Total Amount Bid
2017	(7/01/16 - 6/30/17)	20% of Total Amount Bid
2018	(7/01/17 - 6/30/18)	12% of Total Amount Bid
2019	(7/01/18 - 6/30/19)	1% of Total Amount Bid

PROJECT SPECIAL PROVISIONS**ROADWAY****CLEARING AND GRUBBING - METHOD III:**

(4-6-06) (Rev. 1-17-12)

200

SP2 R02B

Perform clearing on this project to the limits established by Method "III" shown on Standard Drawing No. 200.03 of the *2012 Roadway Standard Drawings*.

BUILDING REMOVAL:

(1-1-02) (Rev. 4-16-13)

215

SP2 R15 C

Remove the buildings, underground storage tanks and appurtenances listed below in accordance with Section 215 of the *2012 Standard Specifications*:

Parcel 005 – Ada L. Hinson – On Survey Station 14+50, Survey Line - DR1-
Portion of Abandoned Weigh Station and Concrete Slab

Parcel 015 – Kim Willis – Right of Survey Station 84+10 +/- Survey Line -L-
Dilapidated Brick Structure

Parcel 028 – Guy Lewis – Right of Survey Station 113+00, Survey Line -L-
Shed

Parcel 074 – Jennifer Grassi – Left of Survey Station 194+00, Survey Line -L-
Shed

Parcel 080 – Raymond Taylor Estate – Right of Survey Station 11+30, Survey Line -DR3-
Block Building

Wooden Boardwalk Adjacent to Turner Street, Survey Line -Y2-

When the description of the work for an item indicates a building partially inside and partially outside the right of way and/or construction area, but does not require the building to be cut off, the entire building shall be removed.

LUMP SUM GRADING:

(8-17-10)

226

SP2 R16

Lump sum grading shall be performed in accordance with Section 226 Comprehensive Grading of the *2012 Standard Specifications* except as follows:

Delete all references to Section 230, Borrow Excavation.

Measurement and Payment

Foundations and anchor rod assemblies for metal poles and upright trusses will be measured and paid for elsewhere in the contract.

No payment will be made for temporary casings that remain in drilled pier excavations. No payment will be made for PIT. No payment will be made for further investigation of defective piers. Further investigation of piers that are not defective will be paid as extra work in accordance with Article 104-7 of the *2012 Standard Specifications*. No payment will be made for remediation of unacceptable drilled piers or post repair testing.

TEMPORARY DETOURS:

(8-15-00) (Rev. 11-19-13)

1101

SP2 R30A

Construct the temporary detours required on this project in accordance with the typical sections in the plans or as directed by the Engineer.

After the detours have served their purpose, remove the portions deemed unsuitable for use as a permanent part of the project as directed by the Engineer. Salvage and stockpile the aggregate base course removed from the detours at locations within the right of way, as directed by the Engineer, for removal by State Forces. Place pavement and earth material removed from the detour in embankments or dispose of in waste areas furnished by the Contractor.

Pipe culverts removed from the detours remain the property of the Contractor. Pipe culverts that are removed will be measured and will be paid at the contract unit price per linear foot for *Pipe Removal*. Payment for the construction of the detours will be made at the contract unit prices for the various items involved.

No direct payment will be made for removing the aggregate base course, earth material and pavement, as the cost of same shall be included in the lump sum price bid for *Grading*. Such prices and payments will be full compensation for the work of removing, salvaging, and stockpiling aggregate base course; removing pipe culverts; and for placing earth material and pavement in embankments or disposing of earth material and pavement in waste areas.

Upon completion of the test, completely remove or cut off the test pile three feet below existing ground on land or beneath mudline in water. The cut-off portion of the pile shall be removed from the site and disposed of by the Contractor.

The Department will conduct Cone Penetration Test (CPT) close to the location of the static load test. The Contractor shall provide access for the CPT equipment and personnel to the CPT test location.

B) LOCATIONS

The axial compressive load test shall be conducted on *non*-production test pile at the following location, unless otherwise directed by the Engineer:

Sta. 45+89.00 30 Ft. ± Left -L- between Bent #14 & #15 Gallants Channel Bridge, or
Sta. 62+75.00 ± -L- near Bent #28 Gallants Channel Bridge

C) LOAD TEST APPARATUS SETUP

The axial compressive load test shall include apparatus for measuring the axial movement of the test pile top. This apparatus shall include a primary measurement system and at least one redundant, secondary system, using at least two of the systems described in ASTM D1143-07.

Provide two separate systems for measuring top of pile movements with the method described in ASTM D1143-07 and internal strain gauge instrumentation. Loading procedures shall conform to the Quick Load Test Method.

The loading apparatus, observation platform, and fixed reference frame shall be designed by a North Carolina Registered Professional Engineer. The observation platform shall be separate from the fixed reference frame. The fixed reference frame shall be constructed such that there will be no vertical or horizontal movement. The loading apparatus shall be arranged to permit sufficient access to reading the dials and wire, and constructed for safe ingress and egress.

The entire measuring devices shall be protected from direct sunlight, frost, wet, wind action and other disturbances that might affect its reliability. The reference frame shall not be constructed of wood or any other material subject to moisture changes.

The pile loading apparatus shall be such that loads of known magnitude can be applied to the pile vertically and axially, without impact, and maintained constant at any given loading increment throughout the range of test loads. The top of the test pile may need to be protected or strengthened in order to prevent damage during the axial compressive load test. The reaction frame and anchor piles shall be designed of sufficient size and length to prevent excessive movement and withstand the maximum anticipated loading.

Hydraulic jacks shall be of an approved type and capable of supplying a minimum jacking capacity equal to the maximum test load plus 20%. Provide a load cell, subject to the approval of the Engineer, which is capable of determining load transfer to the test pile. The load cell shall have a capacity equal to the jack capacity. Provide calibration certificates from a certified testing laboratory for the load cell and hydraulic jack relating pressure gauge reading to jack load. Calibrate pressure gauges no more than six (6) months before the loading test and re-calibrate when directed by the Engineer based on observed performance. All dials and gauges shall be arranged to permit unobstructed observation throughout the loading test. The increase in loading shall be applied at a uniform rate with no sudden load impact. Dial gauges used for measuring the increments of settlement and rebound shall be in units of 0.0001 of an inch. If the load cell and jack gauge readings are not within 10% of each other, the static load test shall be judged to be unsatisfactory, and the test pile shall be retested with re-calibrated load cell and jack at no additional expense to the Department.

D) INSTRUMENTATION AND DATA COLLECTION

The test pile shall be instrumented with waterproof electronic vibrating wire strain gauges. Instrumentation, including vibrating wire strain gauges and telltale rods, shall be installed by the approved geotechnical subcontractor who will perform the static axial load test. Strain gauges shall be placed within the pile at distances from the bottom of the pile equal to 2, 13, 25, 55 and 75 feet. The strain gauges shall be well encapsulated. Enough cable shall be provided to carry the strain data to a data collection device that shall be operated by the geotechnical subcontractor. The cable leads shall be unspliced. Telltale rods shall be installed at distances from the bottom of the pile equal to 2, 13, 25 and 55 feet in accordance with ASTM D1143-07 to measure the relative movement between the pile top and the tip of unstrained telltale rod. Data from strain gauges and telltale shall be collected throughout the load test. All data collection shall be performed by the geotechnical subcontractor.

The cost of all instrumentation shall be included in the cost for static axial load testing. Provide instrumentation pertaining to the testing including the following:

1. Geokon 4911 "Sister Bar" Strain Gauges or approved equal quality product - A total of 10 sister bar vibrating wire strain gauges shall be provided, 5 vertical levels as specified above with two gauges per level for axial compression test.
2. Data Acquisition System - Use a data acquisition system capable of digitizing the data collected from the strain gauges. The data acquisition system shall be a product of the same manufacturer of the strain gauges.
3. Telltale Rods - A total of 4 telltale rods shall be installed at 4 different levels as specified above.

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PROJECT SPECIAL PROVISIONS
Utilities by Others

General:

The following utility companies have facilities that will be in conflict with the construction of this project:

- A. Century Link - Telephone
- B. Progress Energy Carolinas, Inc (Distribution & Transmission) - Power
- C. Time Warner Cable – TV Cables
- D. Carteret Craven EMC – Power
- E. Town of Beaufort – Water & sewer
- F. Carteret County - Water

The conflicting facilities of these concerns will be adjusted prior to the date of availability, unless otherwise noted and are therefore listed in these special provisions for the benefit of the Contractor. All utility work listed herein will be done by the utility owners. All utilities are shown on the plans from the best available information.

The Contractor's attention is directed to Article 105.8 of the Standard Specifications.

Utilities Requiring Adjustment:

A. Century Link - Telephone

- 1. Contractor shall use caution when installing 18" drainage pipe right of Line-L at approximately Sta. 30 +50. The existing buried telephone lines crossing the proposed drainage will be adjusted as necessary (need 10 days advance notice and 5 days to adjust).

See "Utilities by Others Plans" for utility conflicts.

The contact person is Ms. Rachel Croom @ 252-726-8236.

B. Progress Energy Carolinas, Inc (Distribution & Transmission) - Power

- 1. The Progress Energy Carolina, Inc will complete the work by August 31, 2014, See "Utilities by Others Plans" for utility conflicts.

The contact person is Mr. Eddie Watkins for distribution @ 919-787-7000 (ext. 231).

The contact person is Mr. Jamie Loy, for transmission @ 919-546-6034

Revised 1-14-14

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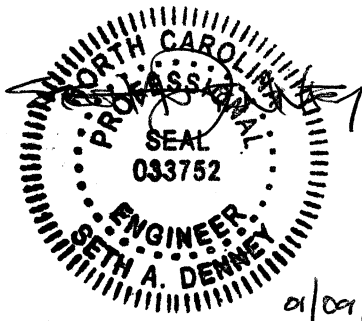
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For Continuous Flight Auger Piles for Sound Barrier Walls, see Geotechnical special provisions.

For Static Axial Compressive Load Test, see Geotechnical special provisions.

For Embedded Data Collectors, see Geotechnical special provisions.

For MSE Retaining Walls, see Geotechnical special provisions.



01/09/14

Excluding sp # 6, 7, 11, 33, 36



Jesse McArthur Bailey
11/9/14

Excluding #1, 2, 3, 5, 8-10, 16-13,
34, 35

REMOVAL OF EXISTING STRUCTURE AT STATION 46+21.50 -L- (SPECIAL)

Remove the existing structure in accordance with Section 402 of the Standard Specifications.

Included with the removal of existing structure are the removal of the bridge including bascule spans, fender system, pile clusters (dolphins) in the vicinity of the fender system, tender house, and other miscellaneous appurtenances. Removal of the existing bascule pier foundations is required to the top of the existing sill at elevation -22 +/- MSL. Removal of the existing railroad bridge foundations is also required. Two exposed railroad piers and one submerged pier are to be removed above elevation -22 +/- MSL or as directed by the Engineer.

The following items shall be salvaged for NCDOT:

- 1 - Onan Emergency Generator Set & external radiator
- 1 - Emergency Automatic Transfer Gear
- All - Contactors & Starters in the Main Switch Gear
- 1 - Electrical Spare Parts Locker with all parts included
- 1 - Main operators control console
- 1 - Emergency Generator Alarm Panel
- 1 - VHF radio, antenna, & power Supply
- 1 - Fax Machine
- 1 - Weather Station & Associated Transmitter
- 2 - Position Indicator Transmitters
- 4 - Hydraulic Brake Assemblies
- 6 - Gate Assemblies
- 2 - Warning
- 4 - Barrier
- 2 - Warning Bells
- 10 - Navigation Lights
- 6 - Red Fender
- 4 - Red/Green Pendants
- 2 - Roadway Light Assemblies
- 1 - Channel Flood light
- 1 - Parking Deck Light
- 2 - Heat Pump assemblies (Hotel Room Style)
- All - Galvanized Fender System Hand Rail
- All - Plaques embedded in the bridge rails

The Department will remove these items after the bridge is removed from service provided the Department is given two weeks notice prior to demolition.

248 B**REMOVAL OF EXISTING BARGE AT STATION 45+24.00 -L-****(SPECIAL)**

The existing barge located on the contract plans near Bent #14 shall be removed in accordance with the requirements of a permit modification obtained by the Department and in accordance with Section 200 of the Standard Specifications.

1.0 BASIS OF PAYMENT

The lump sum price bid for "Removal of Existing Barge" will be full compensation for the above work, including all material, equipment, tools, labor, disposal, and incidentals necessary to complete the work.

PROJECT SPECIAL PROVISION

(10-18-95) (Rev. 10-15-13)

Z-1

PERMITS

The Contractor's attention is directed to the following permits, which have been issued to the Department of Transportation by the authority granting the permit.

<u>PERMIT</u>	<u>AUTHORITY GRANTING THE PERMIT</u>
Dredge and Fill and/or Work in Navigable Waters (404)	U. S. Army Corps of Engineers
Water Quality (401)	Division of Environmental Management, DENR State of North Carolina
State Dredge and Fill and/or CAMA	Division of Coastal Management, DENR State of North Carolina
Navigation	U. S. Coast Guard
CCPCUA	Division of Water Resources, DENR State of North Carolina

The Contractor shall comply with all applicable permit conditions during construction of this project. Those conditions marked by * are the responsibility of the Department and the Contractor has no responsibility in accomplishing those conditions.

Agents of the permitting authority will periodically inspect the project for adherence to the permits.

The Contractor's attention is also directed to Articles 107-10 and 107-13 of the *2012 Standard Specifications* and the following:

Should the Contractor propose to utilize construction methods (such as temporary structures or fill in waters and/or wetlands for haul roads, work platforms, cofferdams, etc.) not specifically identified in the permit (individual, general, or nationwide) authorizing the project it shall be the Contractor's responsibility to coordinate with the Engineer to determine what, if any, additional permit action is required. The Contractor shall also be responsible for initiating the request for the authorization of such construction method by the permitting agency. The request shall be submitted through the Engineer. The Contractor shall not utilize the construction method until it is approved by the permitting agency. The request normally takes approximately 60 days to process; however, no extensions of time or additional compensation will be granted for delays resulting from the Contractor's request for approval of construction methods not specifically identified in the permit.

Where construction moratoriums are contained in a permit condition which restricts the Contractor's activities to certain times of the year, those moratoriums will apply only to the portions of the work taking place in the waters or wetlands provided that activities outside those areas is done in such a manner as to not affect the waters or wetlands.



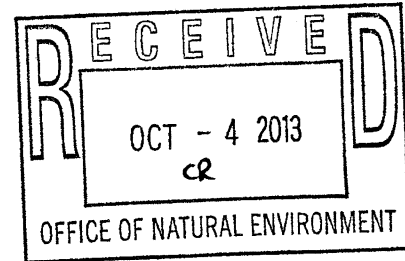
REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403-1343

September 27, 2013

Regulatory Division

Action ID: SAW-2010-02125



North Carolina Department of Transportation
Natural Environment Section Head,
Project Development & Environmental Analysis Unit
Mr. Phil Harris
1598 Mail Service Center
Raleigh, North Carolina 27699

Dear Mr. Harris:

In accordance with your written request of January 24, 2012 and the ensuing administrative record, enclosed is a copy of a Department of the Army (DA) permit to impact approximately 6.94 acres of DA jurisdictional wetlands and 851 linear feet of surface waters associated with the NCDOT TIP No. R-3307; Gallants Channel Bridge, related approaches and upgrades to US 70 located near the town of Beaufort, Carteret County, North Carolina.

Any deviation in the authorized work will likely require modification of this permit. If a change in the authorized work is necessary, you should promptly submit revised plans to the Corps showing the proposed changes. You may not undertake the proposed changes until the Corps notifies you that your permit has been modified.

Carefully read your permit. The general and special conditions are important. Your failure to comply with these conditions could result in a violation of Federal law. Certain significant general conditions require that:

- a. You must complete construction before December 31, 2018.
- b. You must notify this office in advance as to when you intend to commence and complete work.
- c. You must allow representatives from this office to make periodic visits to your worksite as deemed necessary to assure compliance with permit plans and conditions.

You should address all questions regarding this authorization to Ms. Tracey L. Wheeler in the Washington Regulatory Field Office, telephone number (910) 251-4627.

Thank you in advance for completing our Customer Survey Form. This can be accomplished by visiting our website at <http://per2.nwp.usace.army.mil/survey.html> and completing the survey on-line. We value your comments and appreciate your taking the time to complete a survey each time you interact with our office.

Sincerely,



Steven A. Baker
Colonel, U. S. Army
District Commander

Enclosures

Copies Furnished (with enclosures):

Chief, Source Data Unit
NOAA/National Ocean Service
1315 East-west Hwy., Rm 7316
Silver Spring, MC 20910-3282

Copies Furnished with special conditions
and plans:

U. S. Fish and Wildlife Service
Fish and Wildlife Enhancement
Post Office Box 33726
Raleigh, North Carolina 27636-3726

Mr. Fritz Rhodes
National Marine Fisheries Service
101 Pivers Island Road
Beaufort, North Carolina 28516

Mr. Todd Bowers
Wetlands and Marine Regulatory Section
Water Protection Division - Region IV
U. S. Environmental Protection Agency
61 Forsyth St. SW
Atlanta, GA 30303-8931

Mr. Doug Huggett
Division of Coastal Management
N.C. Department of Environment
and Natural Resources
400 Commerce Avenue
Morehead City, North Carolina 28557

Mr. Pace Wilber
National Marine Fisheries Service
219 Fort Johnson Road
Charleston, South Carolina 29412-9110

DEPARTMENT OF THE ARMY PERMIT

Permittee: NC Division of Transportation/Mr. Phil Harris, Project Development and Environmental Analysis

RECEIVED

Permit No.: SAW-2010-02125

SEP 27 2013

Issuing Office: CESA-W-RG-W

REG. WILM. FLD. OFC.

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: The improvements involve replacement of the existing drawbridge over Gallants Channel and related approaches, with a longer high-rise fixed bridge and improve US 70 to a multilane facility. The proposed 3,395-foot bridge will carry a 4-lane divided roadway with 12-foot travel lanes, 8-foot bridge offsets, a 4-foot raised island, and a 1-foot offset on each side. In addition, improvements to Turner Street include a 40-foot, three-lane curb and gutter section with two 12-foot travel lanes, and a 12-foot center turn lane. A 585-foot bridge with 8-foot offsets is proposed to replace the 61-foot box culvert on Turner Street. Total project length is 3.6 miles.

Project Location: The project location begins on US 70 from the existing four lanes at Radio Island and ends north of Olga Road (SR 1426), Latitude 34.722468N. Longitude -76.650331 and ending at Latitude 34.749209 N, Longitude -76.630814W. It's north of the existing US 70 drawbridge over section 10 waters and in abutting coastal marsh and wetlands that are adjacent to the Newport River and relocates US 70 on new location for approximately 3.6 miles

General Conditions:

1. The time limit for completing the work authorized ends on December 31, 2018. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit,

Special Conditions:

SEE ATTACHED SPECIAL CONDITIONS

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

Section 404 of the Clean Water Act (33 U.S.C. 1344).

Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit, Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

E. L. Lusk for Richard W. Hancock, PE Sept 26, 2013
 (PERMITEE) NC Department of Transportation (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

[Signature] 27 SEP 2013
 (DISTRICT COMMANDER) STEVEN A. BAKER, COLONEL (DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

 (TRANSFEEE) (DATE)

SPECIAL CONDITIONS

Action I.D. # SAW-2010-02125; NCDOT TIP No. R-3307, Gallants Channel Bridge Replacement on US 70 over the Newport River and US 70 Bypass of Beaufort, Carteret County, North Carolina.

In accordance with 33 U.S.C. 1341(d), all conditions of the North Carolina Division of Coastal Management consistency determination and the North Carolina Division of Water Quality 401 Water Quality Certification dated April 30, 2012, are incorporated as part of the Department of the Army permit. Therefore they are not listed as special conditions.

WORK LIMITS

1. CONSTRUCTION PLANS: All work authorized by this permit must be performed in strict compliance with the attached plans dated January 24, 2012, which are a part of this permit. Any modification to these plans must be approved by the US Army Corps of Engineers (USACE) prior to implementation.

2. UNAUTHORIZED DREDGE OR FILL: Except as authorized by this permit or any USACE approved modification to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands. This permit does not authorize temporary placement or double handling of excavated or fill material within waters or wetlands outside the permitted area. This prohibition applies to all borrow and fill activities connected with this project.

3. MAINTAIN CIRCULATION AND FLOW OF WATERS: Except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within waters or wetlands or to reduce the reach of waters or wetlands.

4. DEVIATION FROM PERMITTED PLANS: Except as authorized by this permit or any USACE approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, or shall any activities take place that cause the degradation of waters or wetlands. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and fill activities connected with this project. In addition, except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within, into, or out of waters or wetlands or to reduce the reach of waters or wetlands.

5. BORROW AND WASTE: To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent waters and wetlands, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used to borrow material or to dispose of dredged, fill or waste material. The permittee shall

provide the Corps of Engineers with appropriate maps indicating the locations of proposed borrow or waste sites as soon as such information is available. The permittee will coordinate with the Corps of Engineers before approving any borrow or waste sites that are within 400 feet of any stream or wetland. All jurisdictional wetland delineations on borrow and waste areas shall be verified by the Corps of Engineers and shown on the approved reclamation plans. The permittee shall ensure that all such areas comply with Special Condition 4 of this permit and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This documentation will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with Special Condition 4. All information will be available to the Corps of Engineers upon request. The permittee shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

6. PRECONSTRUCTION MEETING: The permittee shall schedule and attend a preconstruction meeting between its representatives, the contractors representatives, and the Corps of Engineers, Washington Regulatory Field Office, NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all the terms and conditions contained with this Department of Army Permit. The permittee shall provide the USACE, Washington Regulatory Field Office, NCDOT Project Manager, with a copy of the final permit plans at least two weeks prior to the preconstruction meeting along with a description of any changes that have been made to the project's design, construction methodology or construction timeframe. The permittee shall schedule the preconstruction meeting for a time frame when the USACE, NCDCM, and NCDWQ Project Managers can attend. The permittee shall invite the Corps, NCDCM, and NCDWQ Project Managers a minimum of thirty (30) days in advance of the scheduled meeting in order to provide those individuals with ample opportunity to schedule and participate in the required meeting.

RELATED LAWS

7. SEDIMENTATION/EROSION CONTROL PLAN:

a.) During the clearing phase of the project, heavy equipment must not be operated in surface waters or stream channels. Temporary stream crossings will be used to access the opposite sides of stream channels. All temporary diversion channels and stream crossings will be constructed of non-erodible materials. Grubbing of riparian vegetation will not occur until immediately before construction begins on a given segment of stream channel.

b.) No fill or excavation impacts for the purposes of sedimentation and erosion control shall occur within jurisdictional waters, including wetlands, unless the impacts are included on the plan drawings and specifically authorized by this permit.

c.) The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades on those areas, prior to project completion.

d.) The permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to assure compliance with the appropriate turbidity water quality standard. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standards. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4). Adequate sedimentation and erosion control measures must be implemented prior to any ground disturbing activities to minimize impacts to downstream aquatic resources. These measures must be inspected and maintained regularly, especially following rainfall events. All fill material must be adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.

8. WATER CONTAMINATION: All mechanized equipment will be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. In the event of a spill of petroleum products or any other hazardous waste, the permittee shall immediately report it to the N.C. Division of Water Quality at (919) 733-3300 or (800) 858-0368 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

9. COASTAL ZONE MANAGEMENT ACT: The Permittee shall fully abide by all conditions of the CAMA Major Development Permit No. 37-12, dated May 7, 2012 issued by the North Carolina Division of Coastal Management, which are incorporated herein by reference.

10. CULTURAL RESOURCES:

a.) The permittee shall adhere to the provisions of the "Memorandum of Agreement (MOA) between the Federal Highway Administration and North Carolina State Historic Preservation Officer for US 70 Improvements from Four Lanes at Radio Island to North of Beaufort near Olga Road", signed by the Federal Highway Administration on September 17, 2006, which is incorporated herein by reference. Any proposed alteration to the MOA shall be coordinated with the North Carolina State Historic Preservation Office. The permittee shall notify the Wilmington District of any approved alterations to the MOA.

b.) If submerged cultural resources are encountered during the operation, the District Engineer will be immediately notified so that coordination can be initiated with the Underwater Archeology Unit (UAU) of the Department of Cultural Resources. In emergency situations, the permittee should immediately contact Mr. Chris Southerly at Fort Fisher (910/458-9042), so that a full assessment of the artifacts can be made.

11. ENDANGERED SPECIES ACT:

a.) **THREATENED AND ENDANGERED SPECIES:** All necessary precautions and measures

will be implemented so that any activity will not kill, injure, capture, harass, or otherwise harm any protected federally listed species. While accomplishing the authorized work, if the permittee discovers or observes a damaged or hurt listed endangered or threatened species, the District Engineer will be immediately notified to initiate the required Federal coordination.

b.) The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work – July 2005" and utilize "The Guidelines for Avoiding Impacts to the West Indian Manatee-Precautionary Measures for Construction Activities in North Carolina Waters" provided as an Attachment of this permit.

PROJECT MAINTENANCE

12. NOTIFICATION OF CONSTRUCTION COMMENCEMENT AND COMPLETION:

The permittee shall advise the Corps in writing prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.

a.) Prior to construction within any jurisdictional areas, the permittee must correctly install silt fencing (with or without safety fencing) parallel with the construction corridor, on both sides of the jurisdictional crossing. This barrier is to serve both as an erosion control measure and a visual identifier of the limits of construction within any jurisdictional area. The permittee must maintain the fencing, at minimum, until the wetlands have re-vegetated and stabilized.

13. CLEAN FILL: Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source and will be clean and free of any pollutants except in trace quantities. Metal products, organic materials (including debris from land clearing activities), or unsightly debris will not be used. Soils used for fill shall not be contaminated with any toxic substance in concentrations governed by Section 307 of the Clean Water Act.

14. PERMIT DISTRIBUTION: The permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit. A copy of this permit, including all conditions, shall be available at the project site during construction and maintenance of this project.

15. SILT-FENCING: The permittee shall employ all sedimentation and erosion control measures necessary to prevent an increase in sedimentation or turbidity within waters and wetlands outside the permit area. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

16. PERMIT REVOCATION: The permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work will, without expense to the United

States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the water or wetland to its pre-project condition.

17. EROSION CONTROL MEASURES IN WETLANDS: The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, prior to project completion.

18. TEMPORARY DISCHARGES: Temporary discharge of excavated or fill material into wetlands and waters of the United States will be for the absolute minimum period of time necessary to accomplish the work. All authorized temporary wetland, stream, and tributary impacts will be returned to pre-disturbance grade and contour, and re-vegetated.

ENFORCEMENT

19. REPORTING ADDRESS: All reports, documentation and correspondence required by the conditions of this permit shall be submitted to the following address: U.S. Army Corps of Engineers, Regulatory Division, Washington Regulatory Field Office, c/o Mr. Thomas Steffens 2407 West 5th Street, Washington, North Carolina 27889, and by telephone at: 910-251-4615. The Permittee shall reference the following permit number, SAW-2010-02125 on all submittals.

20. REPORTING VIOLATIONS OF THE CLEAN WATER ACT AND RIVERS AND HARBORS ACT: Violation of these conditions or violation of Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act must be reported in writing to the Wilmington District U.S. Army Corps of Engineers within 24 hours of the discovery of the violation.

21. COMPLIANCE INSPECTION: A representative of the Corps of Engineers will periodically and randomly inspect the work for compliance with these conditions. Deviations from these procedures may result in an administrative financial penalty and/or directive to cease work until the problem is resolved to the satisfaction of the Corps.

COMPENSATORY MITIGATION

22. North Carolina Ecosystem Enhancement Program (NCEEP) In-Lieu Fee program: In order to compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Form. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit authorization.

23. Permittee Responsible Mitigation: The Permittee shall fully implement the compensatory mitigation plan, entitled Turner Street Marsh Restoration Plan, dated February 3, 2012 for the unavoidable impacts to 0.50 acres of Brackish/Salt Marsh wetlands. Activities prescribed by this plan shall be initiated prior to, or concurrently with, commencement of any construction activities within jurisdictional areas authorized by this permit. The permittee shall re-establish 1.4 acres of Brackish/Salt Marsh wetlands in accordance with the plan with the following conditions:

- a.) The permittee, NCDOT, is the party responsible for the implementation, performance and long term management of the compensatory mitigation project.
- b.) Any changes or modifications to your mitigation plan shall be approved by the Corps.
- c.) The permittee shall maintain the entire mitigation site in its natural condition, as altered by the work in the mitigation plan, in perpetuity. Prohibited activities within the mitigation site specifically include, but are not limited to: Filling; grading; excavating; earth movement of any kind; construction of roads, walkways, buildings, signs, or any other structure; any activity that may alter the drainage patterns on the property; the destruction, cutting, removal, mowing, or other alteration of vegetation on the property; disposal or storage of any garbage, trash, debris or other waste material; graze or water animals, or use for any agricultural or horticultural purpose; or any other activity which would result in the property being adversely impacted or destroyed, except as specifically authorized by this permit.
- d.) In accordance with the mitigation plan, the permittee will identify the proposed preservation mechanism to be used to maintain the entire mitigation site in perpetuity, subject to the approval of the Wilmington District. The District considers preservation of property for compensatory mitigation purposes to consist of maintaining the property in its natural condition, or, if restoration, creation, or enhancement work has been performed on the property, in its mitigated condition. There are several preservation mechanisms that may be used to preserve mitigation property, including, conservation easements, restrictive covenants, and conservation declaration of restrictions. Fee conveyance to an acceptable conservation organization may also be acceptable. The permittee shall not sell or otherwise convey any interest in the mitigation property used to satisfy the mitigation requirements for this permit to any third party, without prior written approval from the Wilmington District Corps of Engineers.
- e.) All mitigation areas shall be monitored for a minimum of 5 years or until deemed successful by the Corps in accordance with the monitoring requirements included in the mitigation plan.
- f.) The permittee shall submit an As-Built survey report to the Wilmington District within 90 days after completing construction of the mitigation site.
- g.) The permittee shall contact the Corps of Engineers, Wilmington Regulatory Field Office; NCDOT Regulatory Project Manager for the project, to provide that individual with the opportunity to attend the annual mitigation monitoring meetings
- h.) If the compensatory mitigation fails to meet the performance standards 5 years after completion of the compensatory mitigation objectives, the compensatory mitigation will be deemed unsuccessful. Within 60 days of notification by the Corps that the compensatory mitigation is unsuccessful, the Permittee shall submit to the Corps an alternate compensatory mitigation proposal to fully offset the functional loss that occurred as a result of the project. The alternate compensatory mitigation proposal may be required to include additional mitigation to compensate for the temporal loss of wetland function associated with the unsuccessful compensatory mitigation activities. The Corps reserves the right to fully evaluate, amend, and

approve or reject the alternate compensatory mitigation proposal. Within 120 days of Corps approval, the Permittee will complete the alternate compensatory mitigation proposal.

24. CONCRETE CONDITION: The permittee shall take measures to prevent live or fresh concrete, including bags of uncured concrete, from coming into contact with any water in or entering into waters of the United States. Water inside coffer dams or casings that has been in contact with concrete shall only be returned to waters of the United States when it no longer poses a threat to aquatic organisms (concrete is set and cured).

25. CULVERTS: For construction of culverts, measures will be included in the construction that will promote the safe passage of fish and other aquatic organisms. For all culvert construction activities, the dimension, pattern, and profile of the stream, (above and below a pipe or culvert), should not be modified by widening the stream channel or by reducing the depth of the stream. Culvert inverts will be buried at least one foot below the bed of the stream for culverts greater than 48 inches in diameter. For culverts 48 inches in diameter or smaller, culverts must be buried below the bed of the stream to a depth equal to or greater than 20 percent of the diameter of the culvert.

26. NAVIGATION - SECTION 10:

a.) This permit does not authorize the interference with any existing or proposed Federal project, and the Permittee will not be entitled to compensation for damage or injury to the authorized structure or work which may be caused from existing or future operations undertaken by the United States in the public interest.

b.) The authorized structure and associated activity must not interfere with the public's right to free navigation on all navigable waters of the United States. No attempt will be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the authorized work for reasons other than safety.

c.) The Permittee must install and maintain, at its expense, any signal lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, on all authorized facilities constructed within navigable waters of the United States.

d.) It is possible that the authorized structure may be damaged by wave wash from passing vessels. The issuance of this permit does not relieve the Permittee from taking all proper steps to ensure the integrity of the permitted structure and the safety of moored boats and barges. The Permittee will not hold the United States liable for any such damage.

e.) The Permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work, will, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the waterway to its former conditions. If the Permittee fails to comply with this direction, the Secretary or his representative may restore the waterway, by contract or otherwise, and recover the cost from the Permittee.

f.) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the U.S. Army Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal, relocation, or alteration.

g.) The permittee shall notify NOAA/NATIONAL OCEAN SERVICE Chief Source Data Unit NCS261, 1315 E West HWY- RM 7316, Silver Spring, MD 20910-3282 at least two weeks prior to beginning work and upon completion of work.

h.) The temporary work bridges shall have a vertical and horizontal opening no less than the existing bridge structure if they span the entire navigational channel. If the temporary work bridge does not span the existing navigational channel and a horizontal navigational opening is left equal to or greater than the existing navigational zone under the existing bridge, then the temporary work bridges vertical clearance can be less than the existing opening.

NOTE:

All utility work performed under a non-reporting Nationwide Permit 12 (NWP 12 - Utility Lines) associated with this project is subject to all applicable terms and conditions of the NWP 12 and Wilmington District Regional Conditions.

Failure to institute and carry out the details of special conditions 1-26, may result in a directive to cease all ongoing and permitted work within waters and/or wetlands associated with TIP No. B-3307, or such other remedy as the District Engineer or his authorized representatives may seek.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Raleigh Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726

GUIDELINES FOR AVOIDING IMPACTS TO THE WEST INDIAN MANATEE Precautionary Measures for Construction Activities in North Carolina Waters

The West Indian manatee (*Trichechus manatus*), also known as the Florida manatee, is a Federally-listed endangered aquatic mammal protected under the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*) and the Marine Mammal Protection Act of 1972, as amended (16 U.S.C 1461 *et seq.*). The manatee is also listed as endangered under the North Carolina Endangered Species Act of 1987 (Article 25 of Chapter 113 of the General Statutes). The U.S. Fish and Wildlife Service (Service) is the lead Federal agency responsible for the protection and recovery of the West Indian manatee under the provisions of the Endangered Species Act.

Adult manatees average 10 feet long and weigh about 2,200 pounds, although some individuals have been recorded at lengths greater than 13 feet and weighing as much as 3,500 pounds. Manatees are commonly found in fresh, brackish, or marine water habitats, including shallow coastal bays, lagoons, estuaries, and inland rivers of varying salinity extremes. Manatees spend much of their time underwater or partly submerged, making them difficult to detect even in shallow water. While the manatee's principal stronghold in the United States is Florida, the species is considered a seasonal inhabitant of North Carolina with most occurrences reported from June through October.

To protect manatees in North Carolina, the Service's Raleigh Field Office has prepared precautionary measures for general construction activities in waters used by the species. Implementation of these measure will allow in-water projects which do not require blasting to proceed without adverse impacts to manatees. In addition, inclusion of these guidelines as conservation measures in a Biological Assessment or Biological Evaluation, or as part of the determination of impacts on the manatee in an environmental document prepared pursuant to the National Environmental Policy Act, will expedite the Service's review of the document for the fulfillment of requirements under Section 7 of the Endangered Species Act. These measures include:

1. The project manager and/or contractor will inform all personnel associated with the project that manatees may be present in the project area, and the need to avoid any harm to these endangered mammals. The project manager will ensure that all construction personnel know the general appearance of the species and their habit of moving about completely or partially submerged in shallow water. All construction personnel will be informed that they are responsible for observing water-related activities for the presence of manatees.
2. The project manager and/or the contractor will advise all construction personnel that

there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act and the Endangered Species Act.

3. If a manatee is seen within 100 yards of the active construction and/or dredging operation or vessel movement, all appropriate precautions will be implemented to ensure protection of the manatee. These precautions will include the immediate shutdown of moving equipment if a manatee comes within 50 feet of the operational area of the equipment. Activities will not resume until the manatee has departed the project area on its own volition (i.e., it may not be herded or harassed from the area).

4. Any collision with and/or injury to a manatee will be reported immediately. The report must be made to the U.S. Fish and Wildlife Service (ph. 919.856.4520 ext. 16), the National Marine Fisheries Service (ph. 252.728.8762), and the North Carolina Wildlife Resources Commission (ph. 252.448.1546).

5. A sign will be posted in all vessels associated with the project where it is clearly visible to the vessel operator. The sign should state:

CAUTION: The endangered manatee may occur in these waters during the warmer months, primarily from June through October. Idle speed is required if operating this vessel in shallow water during these months. All equipment must be shut down if a manatee comes within 50 feet of the vessel or operating equipment. A collision with and/or injury to the manatee must be reported immediately to the U.S. Fish and Wildlife Service (919-856-4520 ext. 16), the National Marine Fisheries Service (252.728.8762), and the North Carolina Wildlife Resources Commission (252.448.1546).

6. The contractor will maintain a log detailing sightings, collisions, and/or injuries to manatees during project activities. Upon completion of the action, the project manager will prepare a report which summarizes all information on manatees encountered and submit the report to the Service's Raleigh Field Office.

7. All vessels associated with the construction project will operate at "no wake/idle" speeds at all times while in water where the draft of the vessel provides less than a four foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

8. If siltation barriers must be placed in shallow water, these barriers will be: (a) made of material in which manatees cannot become entangled; (b) secured in a manner that they cannot break free and entangle manatees; and, (c) regularly monitored to ensure that manatees have not become entangled. Barriers will be placed in a manner to allow manatees entry to or exit from essential habitat.

Figure 1. The whole body of the West Indian manatee may be visible in clear water; but in the dark and muddy waters of coastal North Carolina, one normally sees only a small part of the head when the manatee raises its nose to breathe.

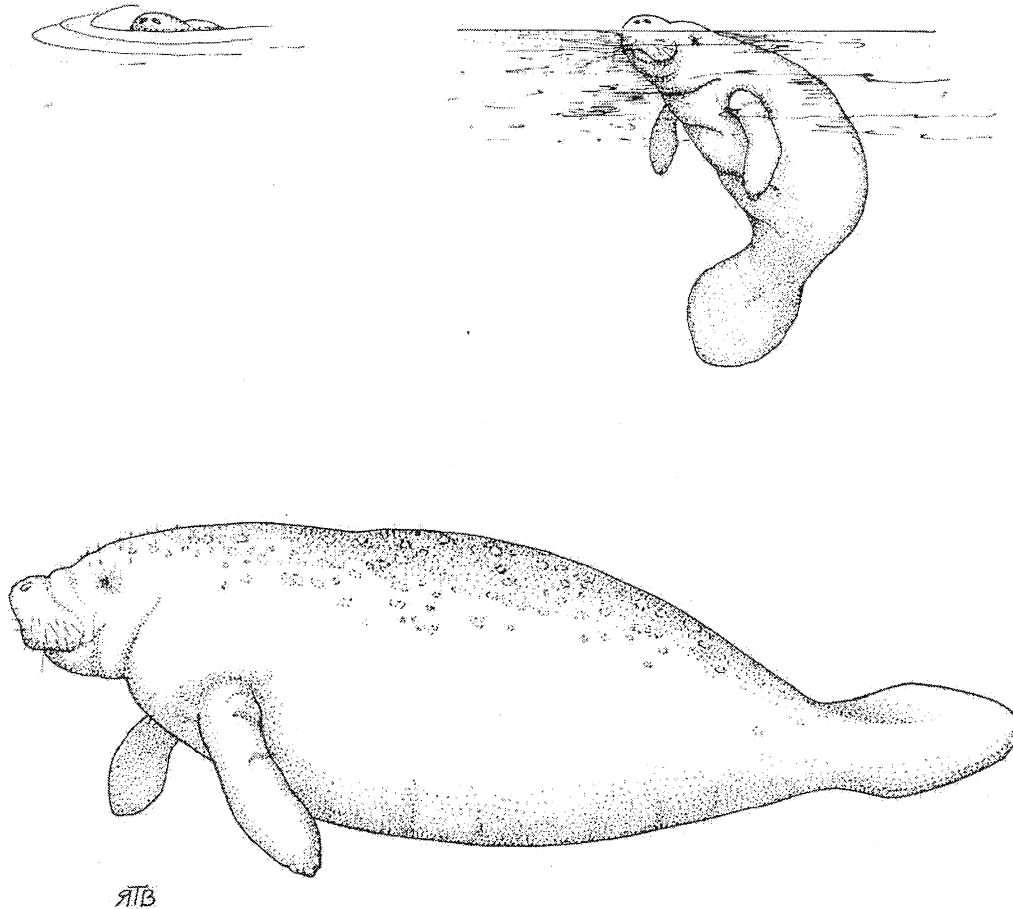


Illustration used with the permission of the North Carolina State Museum of Natural Sciences.
Source: Clark, M. K. 1987. Endangered, Threatened, and Rare Fauna of North Carolina: Part I. A re-evaluation of the mammals. Occasional Papers of the North Carolina Biological Survey 1987-3. North Carolina State Museum of Natural Sciences. Raleigh, NC. pp. 52.

*** U.S. ARMY CORPS OF ENGINEERS
Wilmington District**

Compensatory Mitigation Responsibility Transfer Form

Permittee: NCDOT
Project Name: NCDOT / R-3307 /Gallants Channel Bridge US 70

Action ID: SAW-2010-02125
County: Carteret

Instructions to Permittee: The Permittee must provide a copy of this form to the Mitigation Sponsor, either an approved Mitigation Bank or the North Carolina Ecosystem Enhancement Program (NCEEP), who will then sign the form to verify the transfer of the mitigation responsibility. Once the Sponsor has signed this form, it is the Permittee's responsibility to ensure that to the U.S. Army Corps of Engineers (USACE) Project Manager identified on page two is in receipt of a signed copy of this form before conducting authorized impacts, unless otherwise specified below. If more than one mitigation Sponsor will be used to provide the mitigation associated with the permit, or if the impacts and/or the mitigation will occur in more than one 8-digit Hydrologic Unit Code (HUC), multiple forms will be attached to the permit, and the separate forms for each Sponsor and/or HUC must be provided to the appropriate mitigation Sponsors.

Instructions to Sponsor: The Sponsor must verify that the mitigation requirements shown below are available at the identified site. By signing below, the Sponsor is accepting full responsibility for the identified mitigation, regardless of whether or not they have received payment from the Permittee. Once the form is signed, the Sponsor must update the appropriate ledger and provide a copy of the signed form to the Permittee and to the USACE Bank/In-Lieu Fee Program Manager. The Sponsor must also comply with all reporting requirements established in their authorizing instrument.

Permitted Impacts and Compensatory Mitigation Requirements:

Permitted Impacts Requiring Mitigation* **8-digit HUC and Basin: 03020106, White Oak River Basin**

Stream Impacts (linear feet)			Wetland Impacts (acres)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-riverine	Non-Riparian	Coastal
304			1.78		4.69	

*If more than one mitigation sponsor will be used for the permit, only include impacts to be mitigated by this sponsor.

Compensatory Mitigation Requirements: **8-digit HUC and Basin: 03020106, White Oak River Basin**

Stream Mitigation (credits)			Wetland Mitigation (credits)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-riverine	Non-Riparian	Coastal
304			1.78		4.69	

Mitigation Site Debited: NCEEP

(List the name of the bank to be debited. For umbrella banks, also list the specific site. For NCEEP, list NCEEP. If the NCEEP acceptance letter identifies a specific site, also list the specific site to be debited).

Section to be completed by the Mitigation Sponsor

Statement of Mitigation Liability Acceptance: I, the undersigned, verify that I am authorized to approve mitigation transactions for the Mitigation Sponsor shown below, and I certify that the Sponsor agrees to accept full responsibility for providing the mitigation identified in this document (see the table above), associated with the USACE Permittee and Action ID number shown. I also verify that released credits (and/or advance credits for NCEEP), as approved by the USACE, are currently available at the mitigation site identified above. Further, I understand that if the Sponsor fails to provide the required compensatory mitigation, the USACE Wilmington District Engineer may pursue measures against the Sponsor to ensure compliance associated with the mitigation requirements.

Mitigation Sponsor Name: _____

Name of Sponsor's Authorized Representative: _____

Signature of Sponsor's Authorized Representative

Date of Signature

**USACE Wilmington District
Compensatory Mitigation Responsibility Transfer Form, Page 2**

Conditions for Transfer of Compensatory Mitigation Credit:

- Once this document has been signed by the Mitigation Sponsor and the USACE is in receipt of the signed form, the Permittee is no longer responsible for providing the mitigation identified in this form, though the Permittee remains responsible for any other mitigation requirements stated in the permit conditions.
- Construction within jurisdictional areas authorized by the permit identified on page one of this form can begin only after the USACE is in receipt of a copy of this document signed by the Sponsor, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein. For authorized impacts conducted by the North Carolina Department of Transportation (NCDOT), construction within jurisdictional areas may proceed upon permit issuance; however, a copy of this form signed by the Sponsor must be provided to the USACE within 30 days of permit issuance. NCDOT remains fully responsible for the mitigation until the USACE has received this form, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein.
- Signed copies of this document must be retained by the Permittee, Mitigation Sponsor, and in the USACE administrative records for both the permit and the Bank/ILF Instrument. It is the Permittee's responsibility to ensure that the USACE Project Manager (address below) is provided with a signed copy of this form.
- If changes are proposed to the type, amount, or location of mitigation after this form has been signed and returned to the USACE, the Sponsor must obtain case-by-case approval from the USACE Project Manager and/or North Carolina Interagency Review Team (NCIRT). If approved, higher mitigation ratios may be applied, as per current District guidance and a new version of this form must be completed and included in the USACE administrative records for both the permit and the Bank/ILF Instrument.

Comments/Additional Conditions:

This form is not valid unless signed by the mitigation Sponsor and USACE Project Manager. For questions regarding this form or any of the conditions of the permit authorization, contact the Project Manager at the address below.

USACE Project Manager: Tom Steffens
USACE Field Office: Washington Regulatory Field Office
 US Army Corps of Engineers
 2407 West Fifth Street
 Washington, NC 27889

Email:

STEFFENS.THOMAS.ANCRUM.1284706273

2013.09.11 17:21:21 -04'00'

September 11, 2013

USACE Project Manager Signature

Date of Signature

Current Wilmington District mitigation guidance, including information on mitigation ratios, functional assessments, and mitigation bank location and availability, and credit classifications (including stream temperature and wetland groupings) is available at <http://ribits.usace.army.mil>.

From: [Steffens, Thomas A SAW](#)
To: [Rivenbark, Chris](#); [Stanton, Tyler P](#)
Cc: [Lane, Stephen](#)
Subject: RE: Gallants Channel Bridge Understanding of bridge removal (UNCLASSIFIED)
Date: Monday, January 13, 2014 2:44:45 PM

Classification: UNCLASSIFIED
Caveats: NONE

Chris,

Approval from the USCG and Corps/NAV are enough to continue forward; nothing more is needed from Corps/REG at this time. When it becomes available, please forward the bridge demolition plan to the various agencies for our records and compliance reviews.

Be advised if your proposed work and/or methodology changes from what you have presented today; that you are required to notify Corps/REG, Corps/NAV, USCG and NCDOT as soon as possible to prevent any potential delays or problems.

Thanks,

toms

-----Original Message-----

From: Rivenbark, Chris [<mailto:crivenbark@ncdot.gov>]
Sent: Monday, January 13, 2014 2:16 PM
To: Steffens, Thomas A SAW
Subject: [EXTERNAL] FW: Gallants Channel Bridge Understanding of bridge removal (UNCLASSIFIED)

Tom,

I wasn't sure if we still need something from you or if the approvals from USCG and USACE-Navigation wrap this one up.

Chris Rivenbark
NCDOT, PDEA-Natural Environment Section
(919) 707-6152 office

-----Original Message-----

From: James.L.Rousseau2@uscg.mil [<mailto:James.L.Rousseau2@uscg.mil>]
Sent: Monday, January 13, 2014 2:11 PM
To: Rivenbark, Chris; Bullock, Roger D SAW; Horton, James T SAW
Cc: Steffens, Thomas A SAW; Stanton, Tyler P
Subject: RE: Gallants Channel Bridge Understanding of bridge removal (UNCLASSIFIED)

Chris,

The Coast Guard has no issues as well and are in concurrence with U.S. Army Corps of Engineers, this will still fall under the approved existing permit for this project. If you have any questions please let me know.

Regards,

Jim

Jim Rousseau

Bridge Management Specialist
United States Coast Guard District 5
431 Crawford Street
Portsmouth, Va. 23704
757-398-6557

-----Original Message-----

From: crivenbark@ncdot.gov [<mailto:crivenbark@ncdot.gov>]
Sent: Monday, January 13, 2014 1:53 PM
To: Bullock, Roger D SAW; Horton, James T SAW
Cc: Rousseau, James L CIV; Steffens, Thomas A SAW; Stanton, Tyler P
Subject: RE: Gallants Channel Bridge Understanding of bridge removal
(UNCLASSIFIED)

Mr. Bullock,
Thank you for your help resolving this so quickly. That is correct, we are proposing to remove the existing bascule piers down to the top of the seal as shown on the attached as built plan sheet. Additionally, I have confirmed that we are removing the fender systems in their entirety.

We truly appreciate your assistance.

Chris Rivenbark
NCDOT, PDEA-Natural Environment Section
(919) 707-6152 office

-----Original Message-----

From: Bullock, Roger D SAW [<mailto:Roger.D.Bullock@usace.army.mil>]
Sent: Monday, January 13, 2014 1:02 PM
To: Rivenbark, Chris; Steffens, Thomas A SAW; Horton, James T SAW; Stanton, Tyler P
Subject: Gallants Channel Bridge Understanding of bridge removal
(UNCLASSIFIED)

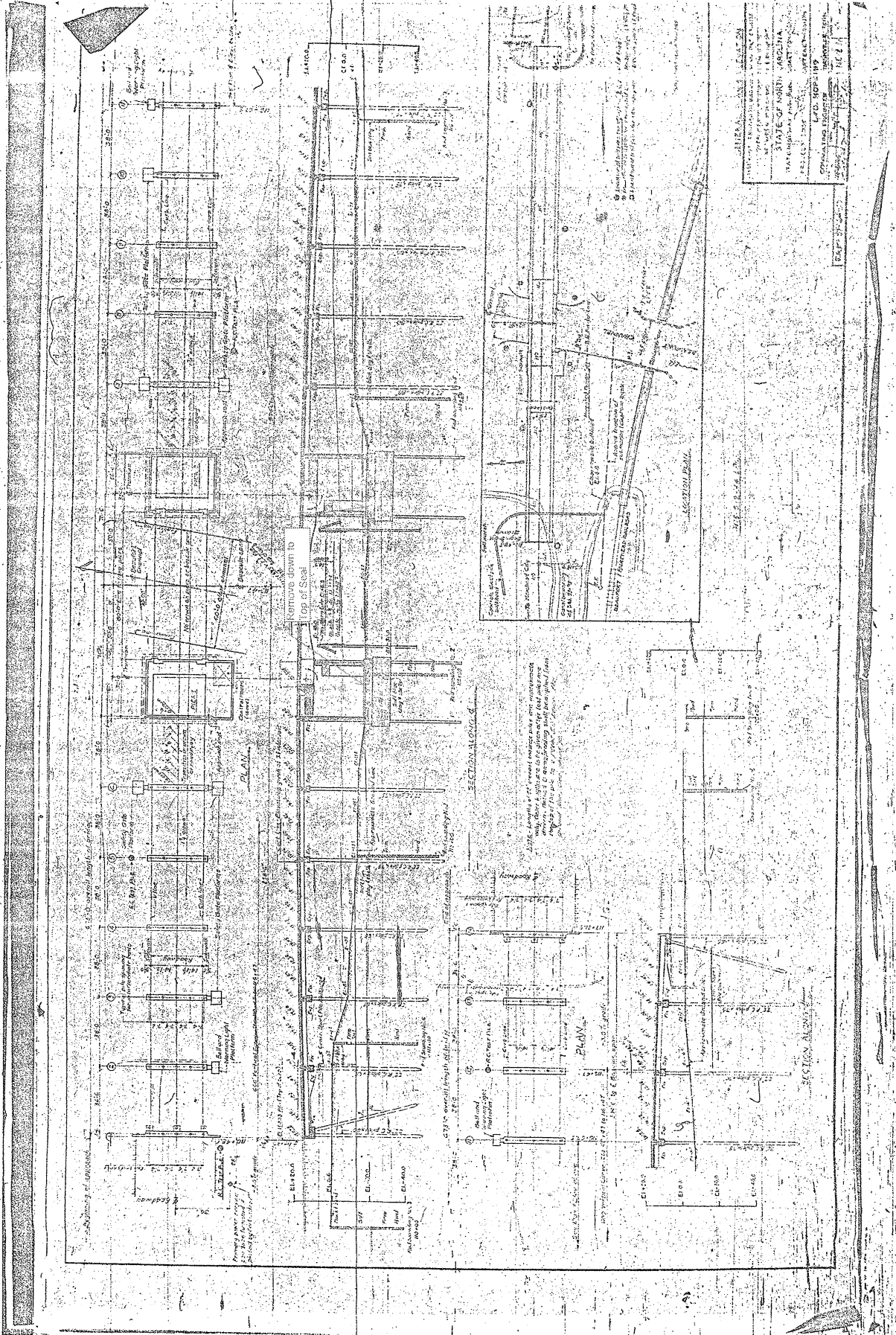
Classification: UNCLASSIFIED
Caveats: NONE

Good afternoon Chris and all,

After discussing with you on the phone, Todd Horton and I sketched what appears to be the mudline and top of seal, which I placed red lines on to clarify removal of structure. If this is the location for removal of bridge, then Navigation concurs with what portion of bridge remains in the subsurface. Essentially, we believe removing all structure to the mudline will work in our interest to maintain navigation of the federal channel. We do request that you remove the fender systems in their entirety in order to have full width of the authorized channel. Thanks for including us in this discussion. Please let me know if you need further clarification.

My best,
Roger

ROGER BULLOCK
Deputy Chief of Operations-Navigation
Designated Diving Coordinator
U.S. Army Corps of Engineers-Wilmington District
69 Darlington Avenue
Wilmington, North Carolina 28403
(910) 251-4822 Office
(910) 512-7463 Mobile
Roger.D.Bullock@usace.army.mil



Addendum No. 1

R-23

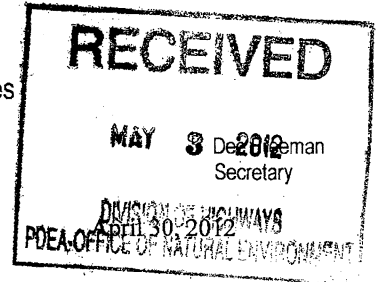
New 1-14-14



North Carolina Department of Environment and Natural Resources

Division of Water Quality
Charles Wakild, P.E.
Director

Beverly Eaves Perdue
Governor



Dr. Greg Thorpe, PhD., Manager
Project Development and Environmental Analysis
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina, 27699-1598

Subject: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and ISOLATED WETLANDS PERMIT with ADDITIONAL CONDITIONS for the proposed improvements to US 70 from the existing four lanes at Radio Island to US 70 north of S.R. 1429 in Carteret County, Federal Aid Project No. STPNHF-70(43), State Project No. 8.116250, TIP R-3307.

NCDWQ Project No. 20111003

Dear Dr. Thorpe:

Attached hereto is a copy of Certification No. 3915 issued to The North Carolina Department of Transportation (NCDOT) dated April 30, 2012.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Wakild".

Charles Wakild
for Director

Attachments

cc: Tom Steffens, US Army Corps of Engineers, Washington Field Office (electronic copy only)
Ed Eatmon, PE, Division 2 Engineer
Jay Johnson, Division 2 Environmental Officer
Chris Militscher, Environmental Protection Agency (electronic copy only)
Travis Wilson, NC Wildlife Resources Commission (electronic copy only)
Gary Jordan, U.S. Fish and Wildlife Service (electronic copy only)
Jason Elliott, NCDOT, Roadside Environmental Unit
Steve Sollod, Division of Coastal Management
Garcy Ward, NCDWQ Washington Regional Office
File Copy

Transportation Permitting Unit
1650 Mail Service Center, Raleigh, North Carolina 27699-1650
Location: 512 N. Salisbury Street, Raleigh, North Carolina 27604
Phone: 919-807-6300 FAX: 919-807-6488
Internet: <http://portal.ncdenr.org/web/wq>

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401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and ISOLATED WETLANDS PERMIT with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (NCDWQ) Regulations in 15 NCAC 2H .0500 and Isolate Wetlands Permit Pursuant to IWGP100000. This certification authorizes the NCDOT to impact 7.06 acres of jurisdictional wetlands, 0.18 acres of isolated wetlands (7.24 acres total), and 892 linear feet of jurisdictional streams in Carteret County. The project shall be constructed pursuant to the application dated received November 15, 2011, the revision request dated received January 26, 2012, and any additional information received. The authorized impacts are as described below:

Stream Impacts in the White Oak River Basin

Site	Location	Permanent Fill in Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Permanent Fill in Intermittent Stream (linear ft)	Temporary Fill in Intermittent Stream (linear ft)	Total Stream Impact (linear feet)	Channel Relocation (linear feet)	Stream Impacts Requiring Mitigation (linear ft)
2	-L- 62+82 to 72+30 & -YIREV- 15+74 to 20+64	139	9	--	--	148	--	--
3	-L- 78+58 to 79+06	16	--	--	--	16	--	16
3	-Y2- 10+78 to 11+18 LT	165	22	--	--	187	--	165
4	-L- 87+50 to 92+56	24	--	--	--	24	--	--
5	-L-171+47 to 183+92	499*	10	--	--	509	499	--
7	-Y2- 18+66 to 24+34	8	--	--	--	8	--	--
Total:		851	41	0	0	892	499	181

* This channel will be relocated and therefore will not require mitigation

Total Stream Impact for Project: 892 linear feet

Wetland Impacts in the White Oak River Basin

Site	Wetland Type	Location	Fill (acre)	Fill (temp.) (acre)	Excavation (acre)	Mechanized Clearing (acre)	Hand Clearing (acre)	Total Wetland Impact (acre)	Impacts Requiring Mitigation (acre)
1	Coastal	-L-28+10 to 29+47 LT	<0.01	--	--	--	0.02	0.02	0.00
1	Coastal	-L- 28+99 to 63+44	0.02	--	0.16	--	--	0.18	0.18
1	Riparian	-L- 28+99 to 63+44	--	0.07	--	--	--	0.07	0.00
2	Coastal	-L- 62+82 to 72+30 & -YIREV- 15+74 to 20+64	0.24	--	--	--	--	0.24	0.24
2	Riparian	-L- 62+82 to 72+30 & -YIREV- 15+74 to 20+64	1.38	--	--	0.21	0.06	1.65	1.59
5	Non-Riparian	-L-171+47 to 183+92	3.98	--	--	0.53	--	4.51	4.51
6	Coastal	-Y2- 13+13 to 18+77	<0.01	<0.01	--	--	--	0.00	0.00
6	Coastal	-Y2- 12+33 to 14+48 RT	0.04	--	--	--	0.03	0.07	0.04
7	Coastal	-Y2- 18+66 to 24+34	0.20	--	--	--	0.12	0.32	0.20
Total:			5.86	0.07	0.16	0.74	0.23	7.06	6.76

Total Wetland Impact for Project: 7.06 acres (0.66 acres coastal wetlands and 6.40 acres 404 wetlands)

Isolated Wetland Impacts in the White oak River Basin

Site	Location	Fill (acre)	Fill (temp) (acre)	Excavation (acre)	Mechanized Clearing (acre)	Hand Clearing (acre)	Total Wetland Impact	Impacts Requiring Mitigation
4	-L- 87+50 to 92+56	0.18	--	--	--	--	0.18	0.18
TOTAL:		0.18	0	0	0	0	0.18	0.18

Total Isolated Wetland Impact for Project: 0.18 acres.

Open Water Impacts in the White Oak River Basin

Site	Permanent Fill in Open Waters (acres)	Temporary Fill in Open Waters (acres)	Total Fill in Open Waters (acres)
Gallants Channel Bridge	0.03	0.06	0.09
Turner Street Bridge	<0.01	<0.01	<0.01
TOTAL:	0.03	0.06	0.09

Total Open Water Impact for Project: 0.09 acres.

The application provides adequate assurance that the discharge of fill material into the waters of the White Oak River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application dated received November 15, 2011 and the revision request dated received January 26, 2012. Should your project change, you are required to notify the NCDWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Conditions of Certification:

1. The NCDOT Division Environmental Officer or Environmental Assistant will conduct a pre-construction meeting with all appropriate staff to ensure that the project supervisor and essential staff understand the potential issues with stream and pipe alignment at the permitted site. NCDWQ staff shall be invited to the pre-construction meeting.
2. Mitigation
 - * a. Compensatory mitigation for impacts to 6.94 acres of wetlands (1.59 acres riparian, 4.69 acres non-riparian, and 0.66 acres coastal) is required. The NCDOT has decided to address this required mitigation as follows:

Mitigation Type	Mitigation Source	Mitigation Required (acres)	Ratio	Credits Required
Riparian	EEP	1.59	2:1	3.18
Non-Riparian	EEP	4.69	2:1	9.38
Coastal	Turner Street Bridge (onsite)	0.66	1:1	0.66
TOTAL:		6.94		

- b. The permittee shall comply with the on-site wetland mitigation plan submitted on February 3, 2012, titled "Turner Street Marsh Restoration Plan (Revised)," located adjacent to Town Creek. All on-site mitigation sites shall be protected in perpetuity by a conservation easement or through NCDOT fee simple acquisition and recorded in the NCDOT Natural Environment Unit mitigation geodatabase.

The mitigation proposal aims to restore approximately 1.40 acres of coastal salt marsh. The mitigation is intended to completely offset the required 0.66 acres of coastal salt marsh being impacted by the project. The site shall be constructed as detailed in the referenced restoration plan. Should the need to deviate from the submitted plans be required, the NCDOT shall contact the NCDWQ for further guidance and approval.

The NCDOT will need to provide the NCDWQ with as-built plans after completion.

The site shall be monitored for no less than five (5) years unless the NCDWQ and other regulatory agencies agree that the site has been successful prior to that time. The site shall be monitored annually with a report made available for the NCDWQ to review. Additionally, at the end of the five (5) years, the site shall consist of a minimum of 70 percent target species and should have a scale value of five (5) (>75 percent vegetative cover) consisting of wetland herbaceous species (not including any invasive species), unless the NCDWQ deems the site successful otherwise. Should the site fail to satisfy the 0.66 acres of required mitigation, the NCDOT shall seek other means to compensate for the deficiency. Any amount over 0.66 acres considered successful may be reserved for use at a later time, pending NCDWQ approval.

- ✕c. Compensatory mitigation for impacts to 6.10 acre of wetlands (1.59 acres riparian and 4.51 acres non-riparian) is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated January 24, 2012 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the EEP Mitigation Banking Instrument signed July 28, 2010.
- ✕d. Compensatory mitigation for 181 linear feet of impact to perennial streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated January 24, 2012 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the EEP Mitigation Banking Instrument signed July 28, 2010.
3. Channel relocations shall be completed and stabilized, and approved on site by DWQ staff, prior to diverting water into the new channel. Stream banks shall be matted with coir-fiber matting. Vegetation used for bank stabilization shall be limited to native riparian vegetation, and should include establishment of a vegetated buffer on both sides of the relocated channel to the maximum extent practical. Also, rip-rap may be allowed if it is necessary to maintain the physical integrity of the stream, but the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage requested. Once the stream has been turned into the new channel, it may be necessary to relocate stranded fish to the new channel to prevent fish kills.
4. The post-construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations. The impacted areas shall be revegetated with appropriate native species.
5. Strict adherence to the most recent version of NCDOT's Best Management Practices For Bridge Demolition and Removal approved by the US Army Corps of Engineers is a condition of the 401 Water Quality Certification.
6. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers,

etc.) before entering the stream. Please refer to the most current version of *Stormwater Best Management Practices*.

7. For projects impacting waters classified by the NC Environmental Management Commission as High Quality Waters (HQW) stormwater shall be directed to vegetated buffer areas, grass-lined ditches or other means appropriate to the site for the purpose of pre-treating storm water runoff prior to discharging directly into streams. Mowing of existing vegetated buffers is strongly discouraged.
8. Bridge piles and bents shall be constructed using driven piles (hammer or vibratory) or drilled shaft construction methods. More specifically, jetting or other methods of pile driving are prohibited without prior written approval from NCDWQ first.
9. No drill slurry or water that has been in contact with uncured concrete shall be allowed to enter surface waters. This water shall be captured, treated, and disposed of properly.
10. Turbidity curtains shall be used to isolate all work areas within Gallants Channel, including pile driving and drilling activities, casement installation, placement of riprap, excavation or filling. Strict adherence to the Construction and Maintenance Best Management Practices will be required.
11. All bridge construction shall be performed from the existing bridge, temporary work bridges, temporary causeways, or floating or sunken barges. If work conditions require barges and if necessary, they shall be floated into position and then sunk. The barges shall not be sunk and then dragged into position. Under no circumstances should barges be dragged along the bottom of the surface water.
12. Unless otherwise approved in this certification, placement of culverts and other structures in open waters and streams, shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWQ for guidance on how to proceed and to determine whether or not a permit modification will be required.
13. If multiple pipes or barrels are required, they shall be designed to mimic natural stream cross section as closely as possible including pipes or barrels at flood plain elevation and/or sills where appropriate. Widening the stream channel should be avoided. Stream channel widening at the inlet or outlet end of structures typically decreases water velocity causing sediment deposition that requires increased maintenance and disrupts aquatic life passage.
14. Riprap shall not be placed in the active thalweg channel or placed in the streambed in a manner that precludes aquatic life passage. Bioengineering boulders or structures should be properly designed, sized and installed.
15. The stream channel shall be excavated no deeper than the natural bed material of the stream, to the maximum extent practicable. Efforts must be made to minimize impacts to the stream banks, as well as to vegetation responsible for maintaining the stream bank stability. Any applicable riparian buffer impact for access to stream channel shall be temporary and be revegetated with native riparian species.
16. The permittee shall use "Design Standards in Sensitive Watersheds" (15A NCAC 4B.0124[a]-[e]) in areas draining to HQW waters. However, due to the size of the project, NC DOT shall not be required to meet 15A NCAC 4B .0124(a) regarding the maximum amount of uncovered acres. Temporary cover (wheat, millet, or similar annual grain) or permanent herbaceous cover shall be planted on all bare soil within 15 business days of ground disturbing activities to provide erosion control.
17. With exception of Creeping Red Fescue (*Festuca rubra*), tall fescue shall not be used in the establishment of temporary or permanent groundcover within riparian areas. For the establishment of permanent herbaceous cover, erosion control matting shall be used in conjunction with an appropriate native seed mix on disturbed soils within the riparian area and on disturbed steep slopes with the following exception. Erosion control matting is not necessary if the area is contained by perimeter erosion control devices such as silt fence, temporary sediment ditches, basins, etc. Matting should be secured in place with staples,

stakes, or wherever possible, live stakes of native trees. Erosion control matting placed in riparian areas shall not contain a nylon mesh grid, which can impinge and entrap small animals. For the establishment of temporary groundcover within riparian areas, hydroseeding along with wood or cellulose based hydro mulch applied from a fertilizer- and limestone-free tank is allowable at the appropriate rate in conjunction with the erosion control measures. Discharging hydroseed mixtures and wood or cellulose mulch into surface waters is prohibited. Riparian areas are defined as a distance 25 feet landward from top of stream bank.

18. Adherence to *The Guidelines for Avoiding Impacts to the West Indian Manatee: Precautionary Measures for Construction Activities in North Carolina Waters* will be required throughout construction.

General Conditions

19. Unless otherwise approved in this certification, placement of culverts and other structures in open waters and streams shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWQ for guidance on how to proceed and to determine whether or not a permit modification will be required.
20. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills.
21. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
22. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions.
23. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage.
- * 24. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval.
25. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water.
26. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream.
27. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
28. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
29. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
30. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If NCDWQ determines that such

standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, NCDWQ may reevaluate and modify this certification.

31. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification..
32. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
33. Native riparian vegetation must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction.
34. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
35. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.
36. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
37. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
38. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
39. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
- *
 40. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify NCDWQ when all work included in the 401 Certification has been completed.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made

conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:

Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714
Telephone: (919)-733-2698, Facsimile: (919)-733-3478

A copy of the petition must also be served on DENR as follows:

Ms. Mary Penny Thompson, General Counsel
Department of Environment and Natural Resources
1601 Mail Service Center
Raleigh, NC 27699-1601

This the 30th day of April 2012

DIVISION OF WATER QUALITY

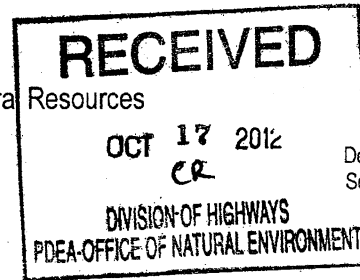


for Charles Wakild
Director



North Carolina Department of Environment and Natural Resources

Division of Water Quality
Charles Wakild, P.E.
Director



Dee Freeman
Secretary

Beverly Eaves Perdue
Governor

October 15, 2012

Dr. Greg Thorpe, PhD., Manager
Project Development and Environmental Analysis
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina, 27699-1598

Subject: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and ISOLATED WETLANDS PERMIT with ADDITIONAL CONDITIONS for the proposed improvements to US 70 from the existing four lanes at Radio Island to US 70 north of S.R. 1429 in Carteret County, Federal Aid Project No. STPNHF-70(43), State Project No. 8.116250, TIP R-3307. NCDWQ Project No. 20111003 v. 2

Dear Dr. Thorpe:

Attached hereto is a modification of Certification No. 003195 issued to The North Carolina Department of Transportation (NCDOT) dated April 30, 2012.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

Charles Wakild
Director

Attachments

- cc: Tom Steffens, US Army Corps of Engineers, Washington Field Office (electronic copy only)
- Ed Eatmon, PE, Division 2 Engineer
- Jay Johnson, Division 2 Environmental Officer
- Chris Militscher, Environmental Protection Agency (electronic copy only)
- Travis Wilson, NC Wildlife Resources Commission (electronic copy only)
- Gary Jordan, U.S. Fish and Wildlife Service (electronic copy only)
- Steve Sollod, Division of Coastal Management (electronic copy only)
- Garcy Ward, NCDWQ Washington Regional Office (electronic copy only)
- File Copy

Transportation and Permitting Unit
1650 Mail Service Center, Raleigh, North Carolina 27699-1617
Location: 512 N. Salisbury St. Raleigh, North Carolina 27604
Phone: 919-807-6300 \ FAX: 919-807-6488
Internet: www.ncwaterquality.org



Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and Isolated Wetlands Permit with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (NCDWQ) Regulations in 15 NCAC 2H .0500 and Isolated Wetlands Permit pursuant to IWGP100000. This certification authorizes the NCDOT to impact an additional 0.97 acres of jurisdictional wetlands in Carteret County. The additional impacts are due to utility line relocations. The project shall be constructed pursuant to the modification dated received October 12, 2012. The authorized impacts are as described below:

Wetland Impacts in the White Oak River Basin

Site	Station	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Total Wetland Impact (ac)	Impacts Requiring Mitigation (ac)
A1	10+00 to 24+00 -L-	--	--	--	--	0.62	0.62	0.00
A2	24+00 to 25+09 -L-	--	--	--	--	0.07	0.07	0.00
A3	25+87 to 30+43 -L-	--	--	--	--	0.28	0.28	0.00
Total		0.00	0.00	0.00	0.00	0.97	0.97	0.00

Total Wetland Impact for Modification: 0.97 acres.

The application provides adequate assurance that the discharge of fill material into the waters of the White Oak River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your modified application dated received October 12, 2012. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated April 30, 2012 still apply except where superceded by this certification. Should your project change, you are required to notify NCDWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Condition(s) of Certification:

1. This modification is applicable only to the additional proposed activities. All of the authorized activities and conditions of certification associated with the original Water Quality Certification dated April 30, 2012 still apply except where superceded by this certification.
2. Since the modification is only requesting additional hand clearing associated with utility line relocations, no additional mitigation is required.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of

Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:

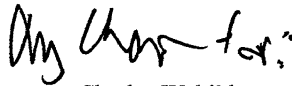
Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714
Telephone: (919)-431-3000, Facsimile: (919)-431-3100

A copy of the petition must also be served on DENR as follows:

Mr. William Cary, General Counsel
Department of Environment and Natural Resources
1601 Mail Service Center

This the 15th day of October 2012

DIVISION OF WATER QUALITY



Charles Wakild
Director

WQC No. 003915

Permit Class
AMENDED

Permit Number
37-12

STATE OF NORTH CAROLINA
Department of Environment and Natural Resources
and
Coastal Resources Commission

Permit

for

Major Development in an Area of Environmental Concern
pursuant to NCGS 113A-118

Excavation and/or filling pursuant to NCGS 113-229

Issued to N.C. Department of Transportation, 1598 Mail Service Center, Raleigh, NC 27699-1548

Authorizing development in Carteret County at a new crossing of Gallants Channel and the US 70 bypass of the town of Beaufort as requested in the permittee's application dated 11/9/11, and revisions dated 1/24/12, 3/7/12, and 2/15/12, including the attached drawings as referenced in Condition No. 1 of this permit.

This permit, issued on 5/7/12, is subject to compliance with the application (where consistent with the permit), all applicable regulations, special conditions and notes set forth below. Any violation of these terms may be subject to fines, imprisonment or civil action; or may cause the permit to be null and void.

US 70 Bypass of Beaufort (TIP No. R-3307)

- 1) Unless specifically altered herein, all work authorized by this permit shall be carried out in accordance with the following sixty five (65) workplan drawings:

½ size drawings: Thirty one (31) drawings dated 6/30/11, fifteen (15) drawings dated 11/14/11, seven (7) drawings dated 7/29/10, four (4) drawings dated 4/18/11, two (2) drawings dated 10/18/10, two (2) drawings dated 6/1/11, two (2) drawings dated 8/1/11, and two (2) drawings dated 2/15/12.

(See attached sheets for Additional Conditions)

This permit action may be appealed by the permittee or other qualified persons within twenty (20) days of the issuing date. An appeal requires resolution prior to work initiation or continuance as the case may be.

This permit must be accessible on-site to Department personnel when the project is inspected for compliance.

Any maintenance work or project modification not covered hereunder requires further Division approval.

All work must cease when the permit expires on

No Expiration Date, pursuant to GS 136-44.7B

In issuing this permit, the State of North Carolina agrees that your project is consistent with the North Carolina Coastal Management Program.

Signed by the authority of the Secretary of DENR and the Chairman of the Coastal Resources Commission.

Douglas V. Haggitt
for

Braxton C. Davis, Director
Division of Coastal Management

This permit and its conditions are hereby accepted.

E. L. Furr for Gregory J. Thompson
Signature of Permittee

N.C. Department of Transportation
TIP No. R-3307

Permit # 37-12
Page 2 of 6

ADDITIONAL CONDITIONS

- 2) The West Indian Manatee, *Trichechus manatus*, which is listed as a federally endangered species, has been reported in North Carolina waters. In order to protect the West Indian manatee and in accordance with project commitments made within the CAMA permit application, all in-water work should be done during the period from November 1 to May 31. If work must be done during the period from June through October the enclosed guidelines prepared by the U.S. Fish and Wildlife Service (USFWS) (rev. 06/2003), entitled "Guidelines for Avoiding Impacts to the West Indian Manatee: Precautionary Measures for Construction Activities in North Carolina Waters" shall be followed.
- 3) In accordance with project commitments made within the CAMA permit application and the Finding of No Significant Impact (FONSI), dated August 2006, the NCDOT document "Best Management Practices for Bridge Demolition and Removal" (final 9/20/99) shall be followed during demolition activities.
- 4) Any debris resulting from the demolition of the existing Grayden Paul Bridge over Gallants Channel or construction of the new bridge over Gallants Channel shall not enter wetlands or waters of the State, even temporarily.
- 5) The permittee and/or his contractor shall exercise all available precautions in day-to-day operations to prevent waste from entering the adjacent waters.
- 6) Any waste materials and debris associated with the demolition of the existing bridge, construction of the new bridge or the other activities shall be disposed of at an approved upland site or shall be recycled in an environmentally appropriate manner provided appropriate authorizations are obtained from any relevant state, federal, or local authorities.
- 7) The permittee and/or his contractor shall provide for proper storage and handling of all oils, chemicals, etc., necessary to carry out the project.
- 8) Construction staging areas shall be located only in upland areas, and not in wetlands or waters of the State.
- 9) The installation of bridge piles shall be performed by pile driving and/or the use of vibratory hammer. Should the permittee and/or its contractor desire to utilize another type of pile installation, such as drilled shaft or jetting, additional DCM authorization shall be required.
- 10) Live concrete shall not be allowed to contact waters of the State or water that will enter waters of the State or adjacent wetlands.
- 11) Placement of riprap shall be limited to the areas as depicted on the attached workplan drawings. The riprap material shall be free from loose dirt or any pollutant. The riprap material shall consist of clean rock or masonry materials, such as but not limited to, granite, marl, or broken concrete.

N.C. Department of Transportation
TIP No. R-3307

Permit # 37-12
Page 3 of 6

ADDITIONAL CONDITIONS

- 12) All portions of the existing bridge within Public Trust Waters shall be removed immediately upon completion of the new bridge. Pilings from the existing bridge, as well as remnant pilings from previous bridges, shall be removed in their entirety, except that in the event that a piling breaks during removal and cannot be removed in its entirety, the piling may be cut off flush with the bed of the water body, and DCM shall be notified of each occurrence within one working day.
- 13) The temporary work bridges shall be removed in their entirety within 90 days after they are no longer needed.
- 14) The permittee shall minimize the need to cross wetlands in transporting equipment to the maximum extent practicable.
- 15) Construction mats shall be utilized to support equipment within wetland areas to minimize temporary wetland impacts. These mats shall be removed immediately following project completion.
- 16) There shall be no clearing or grubbing of wetlands outside of the areas indicated on the attached workplan drawings without prior approval from DCM.

Excavation and Fill

- 17) No excavation shall take place at any time in any vegetated wetlands or surrounding waters outside of the alignment of the areas indicated on the attached workplan drawings, without permit modification.
- 18) Material excavated may be used in fill areas associated with the project or shall be removed from the site and taken to an approved high ground location.
- 19) All excavated materials shall be confined above normal high water level and landward of regularly or irregularly flooded wetlands behind adequate dikes or other retaining structures to prevent spillover of solids into any wetlands or surrounding waters.
- 20) No excavated or fill material shall be placed at any time in any vegetated wetlands or surrounding waters outside of the alignment of the areas as indicated on the attached workplan drawings, without permit modification.
- 21) The temporary placement and double handling of any excavated or fill material within waters or vegetated wetlands is not authorized.
- 22) All fill material shall be clean and free of any pollutants except in trace quantities.

Barges

- 23) Barges shall be removed promptly when they are no longer needed.

N.C. Department of Transportation
TIP No. R-3307

Permit # 37-12
Page 4 of 6

ADDITIONAL CONDITIONS

- 24) Barges shall be utilized only in areas of sufficient depth such that the barges do not rest on the bottom during periods of low tide.
- 25) Caution shall be exercised with placement and removal of any barges to ensure that impacts to shallow water habitat are avoided and minimized to the maximum extent practicable.

Sedimentation and Erosion Control

- 26) This project shall conform to all requirements of the NC Sedimentation Pollution Control Act and NC DOT's Memorandum of Agreement with the Division of Land Resources.
- 27) In accordance with project commitments made within the CAMA permit application and the FONSI, dated August 2006, Design Standards in Sensitive Watersheds, 15A NCAC 4B .0124, shall be implemented.
- 28) Unless specifically altered herein, the permittee shall follow "Best Management Practices for the Protection of Surface Waters (3/97)" and shall also implement sedimentation and erosion control measures sufficient to protect aquatic resources. At a minimum, appropriate sedimentation and erosion control devices, measures or structures shall be implemented to ensure that eroded materials do not enter adjacent wetlands, watercourses, and property (e.g. silt fence, diversion swales or berms, etc.).

Coastal Wetland Mitigation

NOTE: The proposed project will permanently impact a total of 0.66 acre or 28,750 sq. ft. of CAMA Coastal Wetlands. These impacts are due to 0.50 acre of fill and 0.16 acre of excavation.

- 29) In accordance with commitments made by the permittee, and in order to mitigate for the loss of approximately 0.66 acre of Coastal Wetlands associated with the project, the permittee shall restore approximately 1.4 acres of Coastal Wetlands by the removal of existing culvert pipes and approximately 560 linear feet of the existing causeway on Turner Street.
- 30) Unless specifically altered herein, on-site mitigation shall be carried out as described in the document titled "Turner Street Marsh Restoration Plan (Revised), R-3307, Highway 70 Improvements, Beaufort, Carteret County", dated 2/3/2012.
- 31) An as-built survey report for the mitigation site shall be submitted to DCM within 90 days after the mitigation site has been constructed.
- 32) Any subsequent changes to the mitigation plan authorized by this CAMA permit shall require additional DCM authorization.

N.C. Department of Transportation
TIP No. R-3307

Permit # 37-12
Page 5 of 6

ADDITIONAL CONDITIONS

33) The wetland restoration areas shall be fully contained by silt fence until all of the unsuitable fill material has been removed and the restoration areas have been restored to the approximate natural elevation of the adjacent, similar, and undisturbed wetlands and stabilized with appropriate coastal wetland vegetation.

* 34) Annual monitoring reports for the mitigation site shall be provided to DCM for a minimum of five years in accordance with the approved mitigation plan. Annual monitoring reports shall include photographs and an assessment of whether the site is achieving success based on the success criteria stated in the mitigation plan. Progress reports shall also be provided upon request. Monitoring may cease if the permittee can demonstrate that the site has been successfully restored by achieving success criteria and written concurrence is received from DCM.

NOTE: The exact amount of wetland mitigation credits will not be determined until the permittee receives confirmation from DCM that the coastal wetland restoration has been successful.

NOTE: This permit does not convey or imply approval of the suitability of any excess mitigation generated by this project as compensatory wetland mitigation for any particular future projects. The use of any portion of the excess mitigation generated by this project as compensatory mitigation for future projects will be approved on a case-by-case basis during the CAMA permit review and/or consistency process.

35) Due to the possibility that compaction, mechanized clearing and/or other site alterations might prevent any temporary Coastal Wetland impact area from re-attaining pre-project wetland functions, the permittee shall monitor temporary wetland impacts for three years after project completion. The permittee shall schedule a meeting with DCM to verify the extent and location of temporary impacts upon project completion. The permittee shall then provide an annual update on any wetland areas temporarily impacted by this project. This annual update shall consist of photographs and written report on the progress of these temporarily impacted areas in re-attaining wetland jurisdictional status. Three years after project completion, the permittee shall schedule an agency field meeting with DCM to determine if the wetland areas temporarily impacted by this project have re-attained pre-project wetland functions. If at the end of 3 years the wetland areas temporarily impacted by this project have not re-attained pre-project wetland functions, DCM shall determine whether compensatory wetland mitigation shall be required.

Non-Coastal Wetland Mitigation

NOTE: The proposed project will permanently impact 1.59 acres of riparian wetlands, 4.51 acres of non-riparian wetlands, and 0.18 acre of isolated wetlands, for a total of 4.69 acres of non-riparian wetlands. Of the 851 linear feet of permanent stream impacts, DWQ and USACE require mitigation for 304 linear feet.

NOTE: The Ecosystem Enhancement Program (EEP) agreed to provide mitigation for 1.78 acres of riparian wetlands, 4.69 acres of non-riparian wetlands, and 304 linear feet of stream impacts, in accordance to the EEP Mitigation Acceptance Letter, dated 1/24/12.

N.C. Department of Transportation
TIP No. R-3307

Permit # 37-12
Page 6 of 6

ADDITIONAL CONDITIONS

Utilities Relocation

- 36) Any relocation of utility lines that has not been previously permitted by DCM or is not already depicted on the attached work plan drawings, or described within the attached permit application, shall require approval by DCM, either under the authority of this permit, or by the utility company obtaining separate authorization.

Historic Preservation

- 37) The permittee shall adhere to the provisions of the "Memorandum of Agreement (MOA) between the Federal Highway Administration and North Carolina State Historic Preservation Officer for US 70 Improvements from Four Lanes at Radio Island to North of Beaufort near Olga Road", signed by the Federal Highway Administration on 9/7/06. Any proposed alteration to the MOA shall be coordinated with the North Carolina State Historic Preservation Office. The permittee shall notify DCM of any approved alterations to the MOA.

General

- 38) DWQ authorized the proposed project (DWQ Project No. 20111003) on April 30, 2012 under Certification No. 3915. Any violation of the Certification approved by the DWQ shall be considered a violation of this CAMA permit.

NOTE: DWQ provided confirmation that the subject project is excluded from State Coastal Stormwater permitting requirements by way of the Stormwater Permit Exclusion letter, dated 5/26/11 (Project No. SW8101208).

- 39) The permittee and/or contractor shall contact the DCM Transportation Field Representative at (252) 808-2808 extension No. 208 to schedule a pre-construction conference prior to project initiation.

NOTE: The bridge demolition debris may be suitable for use as artificial reef material. The permittee is encouraged to contact the Artificial Reef Coordinator at the N.C. Division of Marine Fisheries Morehead City Office at (252) 726-7021 to coordinate review of the suitability of the material and arrangements for such use.

NOTE: If it is determined that additional permanent and/or temporary impacts are necessary that are not shown on the attached permit drawings or described in the authorized permit application, permit modification or additional authorization from DCM may be required.

NOTE: This permit does not eliminate the need to obtain any additional state, federal, or local permits, approvals, or authorizations that may be required, including, but not limited to, the US Army Corps of Engineers and/or the US Coast Guard.



North Carolina Department of Environment and Natural Resources
Division of Coastal Management

Pat McCrory
Governor

Braxton C. Davis
Director

John E. Skvarla, III
Secretary

December 19, 2013

Richard W. Hancock, P.E.
Environmental Management Director
Project Development and Environmental Analysis Branch
N.C. Dept. of Transportation
1548 Mail Service Center
Raleigh, N.C. 27699-1548

RE: Refinement of CAMA Major Development Permit No. 37-12 (TIP R-3307).
Widening of US 70 from Radio Island to Olga Road (SR 1426), Carteret County

Dear Mr. Hancock:

This letter is in response to your request dated December 19, 2013 requesting authorization to revise the construction plans for the proposed road widening project.

The request indicates that sidewalks would be added adjacent to West Beaufort Street and Turner Street as shown on the attached drawings. The plans indicated that the additional sidewalks would not result in any additional impacts to wetlands or waters of the state.

This **Letter of Refinement** authorizes the addition of sidewalks adjacent to West Beaufort Street and Turner Street as described in your request dated December 19, 2013, including revised Plan Sheets 8,9,20, and 21. This letter shall be attached to the original of amended CAMA Permit No. 37-12 and all documents must be readily available on site when a DCM representative inspects the project for compliance. All conditions and stipulations of the active permit remain in force unless altered herein.

Please contact Stephen Lane at (252) 808-2808 ext. 213 if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Doug Huggett".

Doug Huggett
Major Permits and Consistency Coordinator

cc: Stephen Lane, NCDCM
Steve Sollod, NCDCM
Tom Steffens, USACE
Garcy Ward, DWR
Jay Johnson, NCDOT



North Carolina Department of Environment and Natural Resources
Division of Coastal Management

Pat McCrory
Governor

Braxton C. Davis
Director

John E. Skvarla, III
Secretary

January 13, 2014

Richard W. Hancock, P.E.
Environmental Management Director
Project Development and Environmental Analysis Branch
N.C. Dept. of Transportation
1548 Mail Service Center
Raleigh, N.C. 27699-1548

RE: Refinement of CAMA Major Development Permit No. 37-12 (TIP R-3307)
Widening of US 70 from Radio Island to Olga Road (SR 1426), Carteret County

Dear Mr. Hancock:

This letter is in response to your request, dated January 10, 2014, to revise Condition No. 12 of CAMA Permit No. 37-12 to allow the existing bridge bascule support pilings to be cut off at -22' MSL.

Your request and subsequent discussions among NCDOT and NCDCM staff indicates that the existing bridge bascule support pilings tie into large concrete seals at approximately -22' MSL. This places the top of the concrete seals at 3' to 5' below the mud line of the channel, with current channel depths in the -17 to -19 MSL range. NCDOT has indicated that complete removal of the pilings as currently required by Condition No. 12 of the CAMA permit would result in a potential obstruction of the navigation channel, additional project construction time, and additional financial expense. The request would not result in any additional impacts to wetlands or waters of the state.

This **Letter of Refinement** authorizes the removal of the existing bridge bascule pilings down to -22' MSL as described in your request letter dated January 10, 2014. This letter shall be attached to the original of amended CAMA Permit No. 37-12 and all documents must be readily available on site when a DCM representative inspects the project for compliance. All conditions and stipulations of the active permit remain in force unless altered herein. This refinement of the CAMA permit does not eliminate the need to obtain any additional approvals or authorizations necessary from the USACE or NCDWR to perform the work as requested.

Please contact Steve Sollod at (919) 707-9152 or Stephen Lane at (252) 808-2808 ext. 208 if you have any questions or concerns.

Sincerely,

Doug Huggett
Major Permits and Consistency Coordinator

cc: Stephen Lane, NCDCM
Steve Sollod, NCDCM
Tom Steffens, USACE
Garcy Ward, DWR
Jay Johnson, NCDOT

GENERAL PERMIT

CAMA / DREDGE & FILL

New Modification Complete Reissue Partial Reissue

Previous permit # _____
Date previous permit issued _____

As authorized by the State of North Carolina, Department of Environment and Natural Resources and the Coastal Resources Commission in an area of environmental concern pursuant to 15A NCAC

07H. 1600

Rules attached.

Applicant Name NC DOT
Address 1598 Mail Service Center
City Raleigh State NC ZIP 27699-7598
Phone # (919) 707-6000 Fax # (919) 250-4224
Authorized Agent Gregory Tharp

Project Location: County Carteret
Street Address/ State Road/ Lot #(s) US 70 from Radio Island to US 70 north of SR1429 (Olga Road)
Subdivision _____
City Beaufort, NC ZIP 28516
Phone # (____) _____ River Basin White Oak
Adj. Wtr. Body Gallants Channel and Town Creek (M) /man /unkn
Closest Maj. Wtr. Body Newport River

Affected AEC(s): CW EW FTA ES PTS
 OEA HHF IH UBA N/A
 PWS: _____ FC: _____

ORW: yes / no PNA: yes / no Crit.Hab. yes / no

Type of Project/ Activity Relocate water, sewer, electric, telephone, and cable TV utilities in preparation for proposed improvements to US 70 (TIP R-3307). (Scale: N/A)

- Pier (dock) length _____
- Platform(s) _____
- Finger pier(s) _____
- Groin length _____
number _____
- Bulkhead/ Riprap length _____
avg distance offshore _____
max distance offshore _____
- Basin, channel _____
cubic yards _____
- Boat ramp _____
- Boathouse/ Boatlift _____
- Beach Bulldozing _____
- Other Water line utilities
Sewer line utilities
Electric line utilities
Telephone line utilities
Cable TV line utilities

Utility Plans Attached
and Incorporated into Permit.

Shoreline Length 2500'

SAV	required	yes	<input checked="" type="checkbox"/>
Sandbags	required	yes	<input checked="" type="checkbox"/>
Monitoring	n/a	yes	<input checked="" type="checkbox"/>
Photos			<input checked="" type="checkbox"/>
Water Attached		yes	<input checked="" type="checkbox"/>

A building permit may be required by: Town of Beaufort See note on back regarding River Basin rules.
Notes/ Special Conditions 1 BMPs shall be implemented to prevent sediment from entering adjacent waters of the state.

Agent or Applicant Printed Name Gregory J. Tharp, PhD
E. P. Lewis Co
Signature # 400.00 WBS# 34528.1
Application Fee(s) _____ Check # _____

Permit Officer's Signature [Signature]
Issuing Date 12-9-11
Local Planning Jurisdiction Town of Beaufort
River File Name No Expiration Date pursuant to GS 136-44.7B
340 43 35
76 39 39

Statement of Compliance and Consistency

This permit is subject to compliance with this application, site drawing and attached general and specific conditions. Any violation of these terms may subject the permittee to a fine or criminal or civil action; and may cause the permit to become null and void.

This permit must be on the project site and accessible to the permit officer when the project is inspected for compliance. The applicant certifies by signing this permit that 1) prior to undertaking any activities authorized by this permit, the applicant will confer with appropriate local authorities to confirm that this project is consistent with the local land use plan and all local ordinances, and 2) a written statement or certified mail return receipt has been obtained from the adjacent riparian landowner(s).

The State of North Carolina and the Division of Coastal Management, in issuing this permit under the best available information and belief, certify that this project is consistent with the North Carolina Coastal Management Program.

River Basin Rules Applicable To Your Project:

Tar - Pamlico River Basin Buffer Rules

Other: _____

Neuse River Basin Buffer Rules

If indicated on front of permit, your project is subject to the Environmental Management Commission's Buffer Rules for the River Basin checked above due to its location within that River Basin. These buffer rules are enforced by the NC Division of Water Quality. Contact the Division of Water Quality at the Washington Regional Office (252-946-6481) or the Wilmington Regional Office (910-796-7215) for more information on how to comply with these buffer rules.

Division of Coastal Management Offices**Raleigh Office**

Mailing Address:
1638 Mail Service Center
Raleigh, NC 27699-1638

Location:
2728 Capital Blvd.
Raleigh, NC 27604
919-733-2293
Fax: 919-733-1495

Morehead City Headquarters

400 Commerce Ave
Morehead City, NC 28557
252-808-2808/ 1-888-4RCOAST
Fax: 252-247-3330

(Serves: Carteret, Craven, Onslow -above
New River Inlet- and Pamlico Counties)

Elizabeth City District

1367 U.S. 17 South
Elizabeth City, NC 27909
252-264-3901
Fax: 252-264-3723

(Serves: Camden, Chowan, Currituck,
Dare, Gates, Pasquotank and Perquimans
Counties)

Washington District

943 Washington Square Mall
Washington, NC 27889
252-946-6481
Fax: 252-948-0478

(Serves: Beaufort, Bertie, Hertford, Hyde,
Tyrrell and Washington Counties)

Wilmington District

127 Cardinal Drive Ext.
Wilmington, NC 28405-3845
910-796-7215
Fax: 910-395-3964

(Serves: Brunswick, New Hanover,
Onslow -below New River Inlet- and
Pender Counties)



North Carolina Department of Environment and Natural Resources
Division of Water Resources

Beverly Eaves Perdue
Governor

Thomas A. Reeder
Director

Dee Freeman
Secretary

February 1, 2012

Mr. Chris Rivenbark
NCDOT
1598 MSC
Raleigh, NC 27699-1598

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7008 1300 0000 1132 6699

Subject: CCPCUA Permit No. CU4026
NCDOT - R-3307
Carteret County

Dear Mr. Rivenbark:

In accordance with your application dated October 31, 2011, and associated documentation, we are forwarding Permit No. CU4026 for water use in the Central Coastal Plain Capacity Use Area in Carteret County. This permit allows for the withdrawal of water for the purpose of mine dewatering.

Enclosed with this package are forms DWR CCPCUA-4 and DWR CCPCUA-6. Form DWR CCPCUA-4 is for reporting water withdrawals, in accordance with Sections I. C. and IV. A. of your permit. Form DWR CCPCUA-6 is for reporting ground water levels, in accordance with Sections II. B. and IV. B. of your permit.


If you are not already doing so, DWR requests you submit your monthly water withdrawal and water level information using our online system. By doing so you will not need to mail the Division a signed hard copy. The CCPCUA online permit renewal application, water withdrawal and levels reporting forms are at:

<http://www.ncwater.org/CCPCUAreportonline>

If you do not have internet access then please make as many copies as necessary and send forms on a monthly basis to the address on the top of the forms.

This permit is effective from the date of issuance until January 31, 2017, and is subject to the conditions and/or limitations contained therein. In order for this permit to continue uninterrupted, please apply for permit renewal at least three (3) months before the expiration date.

Sincerely,


Nathaniel C. Wilson, Chief
Ground Water Management Branch

North Carolina
Environmental Management Commission
Department of Environment and Natural Resources

**Permit For The Withdrawal And Use Of Water
In The Central Coastal Plain Capacity Use Area**

In accordance with the provisions of Part 2, Article 21 of Chapter 143, General Statutes of North Carolina as amended, and any other applicable Laws, Rules and Regulations,

Permission Is Hereby Granted To

NC Department of Transportation

Project No. R-3307

US 70 from existing four lanes at Radio Island to US 70/ North of SR 1426 (Olga Road)


FOR THE

Withdrawal and Use of Water in Carteret County, North Carolina in accordance with the grantee's application dated October 31, 2011, and any supporting data submitted with the application, all of which are filed with the Department of Environment and Natural Resources and are considered part of this Permit.

This Permit shall be effective from the date of its issuance until January 31, 2017, and shall be subject to the specified conditions and/or limitations contained in Sections I - X of this Permit.

Permit issued this the 1 day of FEBRUARY, 2012.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

BY 

Thomas A. Reeder
Director, Division of Water Resources

By Authority of the Secretary of the Department of Environment and Natural Resources

PERMIT #CU4026

I. WITHDRAWALS**A. USE**

This Permit allows the withdrawal of water for the purpose of dewatering borrow pits to extract material for road construction.

B. RATES OF WITHDRAWALS

The maximum quantity of water that may be withdrawn shall not exceed what is established in the Reclamation Plan as specified in NCDOT's CCPCUA Special Provisions document.

C. SOURCE(S) OF WITHDRAWALS

Ground Water Source(s): Withdrawals shall be made from sumps in borrow pits in the surficial aquifer.

D. MONITORING OF WITHDRAWALS

Withdrawals from each source, whether well or sump, shall be measured by an approved metering device equipped with a totalizing indicator, and having an accuracy within plus or minus five percent.

II. WATER LEVELS**A. MAXIMUM DRAWDOWN LEVELS**

1. Pump intakes for the well(s) shall not be set below the depth specified in the permit application or associated documentation without prior approval of the Division of Water Resources.
2. In the event that data from the permitted wells or other wells within the zone influenced by pumping of the permitted wells indicates a deterioration of quality or quantity in surrounding aquifers or the source aquifer, an alternate maximum pumping level may be established by the Division of Water Resources.

B. MONITORING OF WATER LEVELS

1. The pumping water level in each supply well shall be measured once a month:
 - a. by a steel or electric tape from a fixed reference point, or by using the air-line method
 - b. within accuracy limits of plus or minus one percent,
 - c. just prior to shutting off the pump, or after sufficient time of pumping, so that a maximum drawdown may be obtained, and
 - d. during the last planned pumping day of the month, or within the last five days of the month.

2. The static water level in each supply well shall be measured once a month:
 - a. by a steel or electric tape from a fixed reference point, or by using the air-line method
 - b. within accuracy limits of plus or minus one percent,
 - c. after the pump is shut off for approximately 12 hours, and
 - d. within the last five days of the month.
3. Unused supply wells or other suitable wells that may be available shall be monitored when such monitoring is specified by the Division of Water Resources and when pertinent to observation or evaluation of the effects of withdrawals made under this permit.

III. OTHER PROVISIONS

A. WELL CONSTRUCTION APPROVAL

A Well Construction Permit shall be required prior to the construction of any well that will be used to withdraw any portion of the water regulated under this Permit. Application for these permits must be submitted to the Washington Regional Office, Division of Water Quality, P.O. Box 2188, Washington, NC 27889.

B. ACCESS TO FACILITIES

The Environmental Management Commission and employees of the Department of Environment and Natural Resources shall have reasonable access to areas owned and under control of the permittee for observation and inspection of water use and related facilities pertinent to the provisions of this permit and other regulations.

IV. REPORTS REQUIRED

A. WITHDRAWALS

Monthly reports of daily withdrawal totals from each well or sump shall be furnished to the Division on a quarterly basis, within 30 days after the end of March, June, September and December.

B. WATER LEVELS

Water level measurements for each supply well shall be measured in accordance with Condition II. B. 1. of this permit and submitted to the Division not later than 30 days after the end of the calendar month in which the measurement was taken.

V. MODIFICATION OR REVOCATION

A. MODIFICATION

1. The Permittee must notify the Director of any proposed major changes in usage and apply for a modification of the permit for such changes or for any revisions of the terms of this permit.
2. The Director may modify the terms of the permit, after 60 days written notice to the permittee, if he finds that the terms of the permit and/or the resulting water use are found to be contrary to the purposes of the Water Use Act of 1967 or contrary to public interest or having an unreasonably adverse effect upon other water uses in the capacity use area. Modifications may include, but are not limited to, requirements for alternate pumping levels or the collection, analysis, and reporting of ground or surface water quality samples.

B. REVOCATION

The Director may revoke the permit if he finds that:

1. the Permittee has violated the terms of the permit; or
2. the terms of the Permit and/or the resulting water use are contrary to the purpose of the Water Use Act of 1967 or contrary to the public interest or having an unreasonably adverse effect upon other water uses in the capacity use area and cannot be cured by modification; or
3. the Permittee made false or fraudulent statements in the application for the water use permit; or
4. water withdrawn under the terms of the permit is used for purposes other than those set forth in the permit.

VI. CONSTRUCTION OF PERMIT

- A. The terms and conditions shall not be construed to relieve the Permittee of any legal obligation or liability, which it owes or may incur to third parties as the result of the conduct of its operations in conformity with this Permit.
- B. When under the terms hereof, any provision of this Permit requires approval of the Department or becomes effective at the discretion of the Department, the notice of approval or the exercise of such discretion shall be evidenced by written instrument issued by the Department.
- C. The terms and conditions of this Permit shall not be construed as a limitation of the powers, duties, and authority vested in the Environmental Management Commission or any other State, Federal, or local agency, or any applicable laws hereafter enacted.

VII. ADDITIONAL CONDITIONS

- A. This Permit shall be subject to any limitations or conditions in other State permits, including but not limited to permits required pursuant to North Carolina General Statutes §143-215.1.
- B. Issuance of this Permit shall have no bearing on subsequent State decision(s) regarding any other water use or other permit application(s) submitted or which may be submitted by the Permittee, its successors or assigns.
- C. Compliance with the terms and conditions in this permit does not relieve the permittee of compliance with any provision, now in force or hereafter enacted or promulgated, of the Water Use Act of 1967, the regulations promulgated thereunder, or any other provision of State law.

VIII. PENALTIES

Violations of the terms and conditions of this Permit are subject to penalties as set forth in North Carolina General Statutes §143-215.17.

IX. PERMIT NONTRANSFERABLE

Water Use Permits shall not be transferred except with approval of the Environmental Management Commission.

X. RENEWAL OF PERMIT

The Permittee, at least three (3) months prior to the expiration of this permit, shall request its extension. Upon receipt of the request, the Commission will review the adequacy of the facilities described therein, and if warranted, will extend the permit for such period of time and under such conditions and limitations as it may deem appropriate.

North Carolina Department of Environment and Natural Resources

Mail To: Division of Water Resources - NC DENR
 1611 Mail Service Center
 Raleigh, North Carolina 27699-1611
 Attention : Capacity Use Administration

Check Box If No Use This Month

For month of: _____ Year: _____ Facility: **NCDOT (R-3307)** Permit #: **CU4026** Sheet ___ of ___

Report of Water Withdrawals
 from Each Source

Well/Sump ID	meter readings	gallons per day	meter readings	gallons per day	meter readings	gallons per day	Total Withdrawn
Beginning reading →							
Day 1							
Day 2							
Day 3							
Day 4							
Day 5							
Day 6							
Day 7							
Day 8							
Day 9							
Day 10							
Day 11							
Day 12							
Day 13							
Day 14							
Day 15							
Day 16							
Day 17							
Day 18							
Day 19							
Day 20							
Day 21							
Day 22							
Day 23							
Day 24							
Day 25							
Day 26							
Day 27							
Day 28							
Day 29							
Day 30							
Day 31							

DWR CCPCUA-4 Name: _____ Signature: _____ Date: _____

Addendum No. 1

R-53

**U.S. Department of
Homeland Security**

**United States
Coast Guard**



Commander
United States Coast Guard
Fifth Coast Guard District

431 Crawford Street
Portsmouth, Va. 23704-5004

Staff Symbol: (dpb)

Phone: (757) 398-6557

Fax: (757) 398-6334

Email: James.L.Rousseau2@uscg.mil

RECEIVED

DEC 31 2013

DIVISION OF HIGHWAYS

**FEDERAL AGENCY FOR ENVIRONMENTAL PROTECTION
OFFICE OF NATURAL ENVIRONMENT**

16591

19 DEC 2013

Mr. Richard W Hancock, P.E., Manager
Project Development & Environmental Analysis Unit
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, NC 27699-1548

Dear Mr. Hancock:

Enclosed is the Coast Guard Bridge Permit 8-13-5 dated December 13, 2013, approving the proposed replacement of the Grayden Paul drawbridge across Gallants Channel in Beaufort, NC. The following stipulations shall be adhered to:

a. The Contractor shall submit the plans and schedule of operation for approval at least 45 days prior to commencement of work in the waterway. One copy of such information shall be submitted concurrently to your Resident Engineer, the United States Coast Guard Commander (dpb); Federal Building, 4th Floor, 431 Crawford Street; Portsmouth, VA 23704-5004, and the U. S. Coast Guard Sector North Carolina at 2301 East Fort Macon Road, Atlantic Beach, NC 28512-5633. The information shall include a sketch of the waterway; the bridge; the location of any restrictions that will be placed in the waterway such as barges, anchors, and anchor lines; the location and height above mean high water and detailed description of any scaffolding, or netting; detailed description indicating the placement, type and dimension of any cofferdams if used. The schedule should also include the hours of operation and whether or not the equipment will be removed at night. The contractor shall comply with all provisions of the Navigation Rules International - Inland, available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. The Contractor shall submit to the Resident Engineer a copy of all correspondence between the Coast Guard. No deviation from the approved plans and schedule of operation may be made unless the modification has previously been submitted and approved by the Coast Guard.

b. All bridge closures for the existing-to-be-replaced bridge shall be requested in writing to be received at this office at least 15 days in advance. If any closures will exceed three consecutive days, we must be advised at least 30 days in advance so that we may make the appropriate marine notifications. Time restrictions for the navigational traffic shutdown shall be strictly adhered to. Any request for an extension of the closure dates stated above shall be forwarded at least 30 days in advance to the Coast Guard for approval.

c. At no time during the work will the waterway be closed to navigation without prior approval from the Coast Guard. You are required to maintain close and regular contact with Coast Guard Sector North Carolina to keep them informed to activities in the waterway at (252) 247-4570.

16591
19 DEC 2013

d. Barges that are used in the waterway during the project must be marked. Enclosure (2) outlines temporary marking and lighting requirements for barges and structures not part of the bridge that will be used during construction. If barge or float anchor lines are used, they must be marked by buoys, which should be lighted. If you should have any questions, regarding lights on the barges or work floats, please contact Mr. John Walters, Chief, Waterways Management Section, at (757) 398-6230. Floating equipment shall have a radiotelephone capable of operation from its main control station in accordance with Part 26 of Title 33, Code of Federal Regulations and shall be monitored during all periods the floating equipment is on station.

e. During the progress of work, while the channel is in operation, should any material, machinery or equipment be lost, dumped, thrown overboard, sunk or misplaced which may be dangerous to or obstruct navigation, immediate notice shall be given to the Coast Guard and the object removed with the utmost dispatch. Until removal can be effected, the objects shall be properly marked in order to protect navigation. Notice to the Coast Guard shall give a description and location of any such object and the action taken or being taken to protect navigation.

f. Upon completion of the proposed project, an inspection of the waterway bottom shall be performed to insure that all construction waste materials have been completely removed. Certification will be required in writing by a licensed engineer or licensed surveyor that the waterways have not been impaired and all construction related debris has been cleared from it. The certification shall include the actual method used to conduct the inspection. The Contractor shall remove any bridge related debris, resulting from the current or prior work or occurrences, discovered during this survey.

g. Upon completion of the bridgework, a responsible official of the North Carolina Department of Transportation shall verify as-built clearances and a statement attesting to the correctness of the clearances shall be forwarded to this office for record purpose. In lieu of verification by the above listed official, certification by a licensed surveyor or registered professional engineer registered in the State of North Carolina will be accepted.

h. Except as shown on the plans, no dredging, excavation, filling, rip-rap, or other work affecting the bottoms, shall be done in conjunction with this work.

i. If during the periods of construction, permanent lighting cannot be maintained operable, the fenders of each pier shall be marked with a battery or power operated white light of not less than 60 flashes per minute and visible for a range of 2,000 yards on 90% of the nights of the year. Generally, a lamp of 20-candle power will meet these requirements. If necessary to obtain coverage required, a light or lights on the upstream and downstream sides shall be installed. The piers shall be so marked until the construction has been completed and permanent navigational lighting has been reinstalled and determined to be operating satisfactorily. Written approval from the Coast Guard of temporary lighting during periods of construction is required. No existing bridge navigation lights shall be impaired or blocked during darkness or periods of reduced visibility.

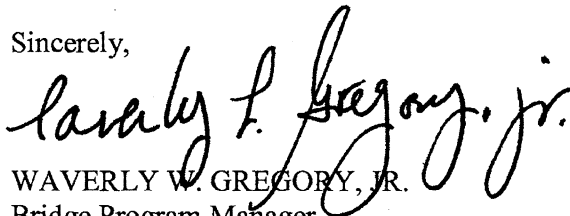
16591
19 DEC 2013

j. Compliance with the requirements stated herein does not relieve the contractor of the obligation or responsibility for compliance with the provisions of any other law or regulation as may be under the jurisdiction of the State of North Carolina, or any other federal, state or local authority having cognizance of any aspect of the location, construction or maintenance of said bridge. It is advised that the Coast Guard can levy monetary civil penalties for violations of bridge regulations and statutes.

k. In accordance with Title 33 Code of Federal Regulations Part 118.25 – Application procedure, approval of lights and other signals required shall be obtained prior to construction. Application shall be by letter accompanied by duplicate sets of drawings showing (1) the plan and elevation of the structure showing lights and signals proposed, and (2) a small scale vicinity chart showing proposed bridge and all other bridges within 1,000 feet above or below the proposed bridge.

The office of the Bridge Program Manager, Fifth Coast Guard District, shall be notified immediately upon completion of the project. If you should have any questions regarding this matter, please contact Mr. James Rousseau at the above listed address or telephone number.

Sincerely,



WAVERLY W. GREGORY, JR.
Bridge Program Manager
By direction of the Commander
Fifth Coast Guard District

Encl: (1) Bridge Permit 8-13-5 dated December 13, 2013
(2) Temporary marking and lighting requirements

Copy: John Walters, (dpw) w/encl
USCG Sector North Carolina, Waterways Management w/encl
Shelly H. Sugarman, COMDT (CG-BRG-2)

16591
19 DEC 2013

***LIGHTING REQUIREMENTS FOR BARGES AND STRUCTURES NOT PART OF A
BRIDGE OR APPROACH STRUCTURE***

88.13 Lights on barges at bank or dock.

- (a) The following barges shall display at night and, if practicable, in periods of restricted visibility the lights described in paragraph (b) of this section -
 - (1) Every barge projecting into a buoyed or restricted channel.
 - (2) Every barge so moored that it reduces the available navigable width of any channel to less than 80 meters.
 - (3) Barges moored in groups of more than two barges wide or to a maximum width of over 25 meters.
 - (4) Every barge not moored parallel to the bank or dock.
- (b) Barges described in paragraph (a) shall carry two unobstructed white lights of an intensity to be visible for a least one mile on a clear dark night and arranged as follows:
 - (1) On a single moored barge, lights shall be placed on the two corners farthest from the bank or dock.
 - (2) On barges moored in group formation, a light shall be placed on each of the upstream and downstream ends of the group, on the corners farthest from the bank or dock.
 - (3) Any barge in a group, projecting from the main body of the group toward the channel, shall be lighted as a single barge.
- (c) Barges moored in any slip or slough, which is used primarily for mooring purposes, are exempt from the lighting requirements of this section.

***TITLE 33 CODE OF FEDERAL REGULATIONS, SECTION 118.95
LIGHTS ON STRUCTURES NOT PART OF A BRIDGE OR APPROACH STRUCTURE***

Lights on sheer booms, isolated piers, obstructions, and other structures not part of a bridge or approach structure must meet the requirements for aids to navigation in Subpart 66.01 of Part 66 of this chapter.

TITLE 33 CODE OF FEDERAL REGULATIONS, SECTION 66.01-10

- (a) The characteristics of a private aid to navigation shall conform to the United States Aids to Navigation System described in Subpart B of Part 62 of this subchapter, except that only tungsten-incandescent light sources will be approved for electric lights.

Therefore in accordance with 33 CFR 66.01-10(a), the above lights shall be marked with slow flashing yellow lights visible for two miles on a clear dark night. Lights similar to the Tideland ML-120 Barge Light may be used. Only tungsten-incandescent light sources will be approved for electric lights.

U.S. Department of
Homeland Security

United States
Coast Guard



BRIDGE PERMIT

13 DEC 2013

(8-13-5)

WHEREAS by Title V of an act of Congress approved August 2, 1946, entitled "General Bridge Act of 1946," as amended (33 U.S.C. 525-533), the consent of Congress was granted for the construction, maintenance and operation of bridges and approaches thereto over the navigable waters of the United States;

AND WHEREAS the Secretary of Homeland Security has delegated the authority of Section 502(b) of that act to the Commandant, U.S. Coast Guard by Department of Homeland Security Delegation Number: 0170.1;

AND WHEREAS before construction is commenced, the Commandant must approve the location and plans of any such bridge and may impose any specific conditions relating to the construction, maintenance and operation of the structure deemed necessary in the interest of public navigation, such conditions to have the force of law;

AND WHEREAS the - STATE OF NORTH CAROLINA - has submitted for approval the location and plans of a bridge to be constructed across Gallants Channel at Beaufort, North Carolina;

NOW THEREFORE, This is to certify that the location and plans dated 8 February 2012 are hereby approved by the Commandant, subject to the following conditions:

1. No deviation from the approved plans may be made either before or after completion of the structure unless the modification of said plans has previously been submitted to and received the approval of the Commandant.

2. The construction of falsework, pilings, cofferdams or other obstructions, if required, shall be in accordance with plans submitted to and approved by the Commander, Fifth Coast Guard District, prior to construction of the bridge. All work shall be so conducted that the free navigation of the waterway is not unreasonably interfered with and the present navigable depths are not impaired. Timely notice of any and all events that may affect navigation shall be given to the District Commander during construction of the bridge. The channel or channels through the structure shall be promptly cleared of all obstructions placed therein or caused by the construction of the bridge to the satisfaction of the District Commander, when in the judgment of the District Commander the construction work has reached a point where such action should be taken, but in no case later than 90 days after the bridge has been opened to traffic.

3. Issuance of this permit does not relieve the permittee of the obligation or responsibility for compliance with the provisions of any other law or regulation as may be under the jurisdiction of any federal, state or local authority having cognizance of any aspect of the location, construction or maintenance of said bridge.

4. A bridge fendering system shall be installed and maintained in good condition by and at the expense of the owner of the bridge when so required by the District Commander. Said installation and maintenance shall be for the safety of navigation and be in accordance with plans submitted to and approved by the District Commander.

5. Clearance gauges shall be installed and maintained in a good and legible condition by and at the expense of the owner of the bridge. The type of gauges and the locations in which they are to be installed will be submitted to the District Commander for approval.

6. All parts of the existing to-be-replaced Grayden Paul Bridge across Gallants Channel, mile 0.1, not utilized in the new bridge shall be removed in their entirety and the waterway cleared to the satisfaction of the District Commander. A period of 90 days subsequent to the opening to traffic of the new bridge, mile 0.3, will be allowed for such removal and clearance.

7. When the proposed bridge is no longer used for transportation purposes, it shall be removed in its entirety or to an elevation deemed appropriate by the District Commander and the waterway cleared to the satisfaction of the District Commander. Such removal and clearance shall be completed by and at the expense of the owner of the bridge upon due notice from the District Commander.

8. The approval hereby granted shall cease and be null and void unless construction of the bridge is commenced within three years and completed within five years after the date of this permit.

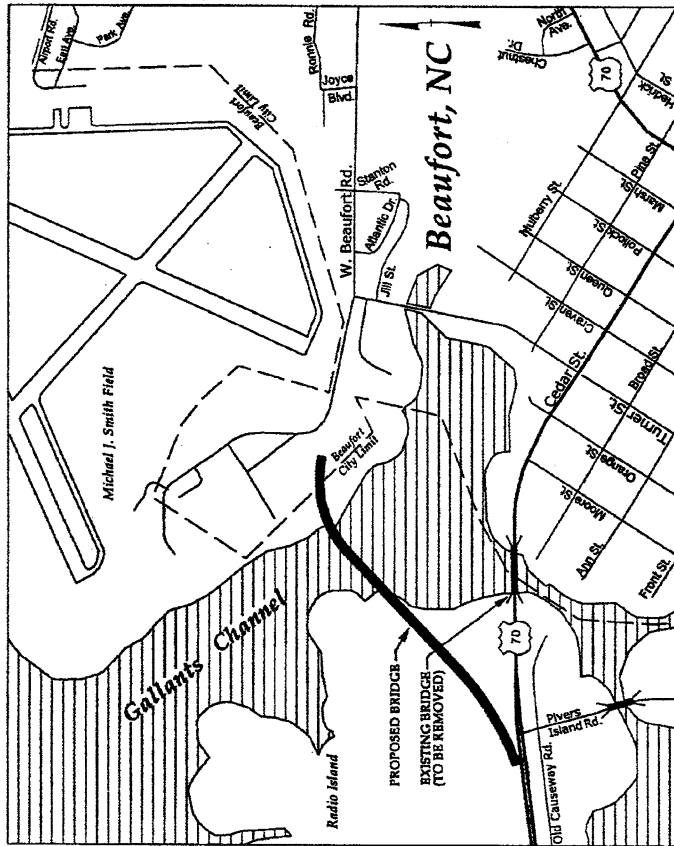
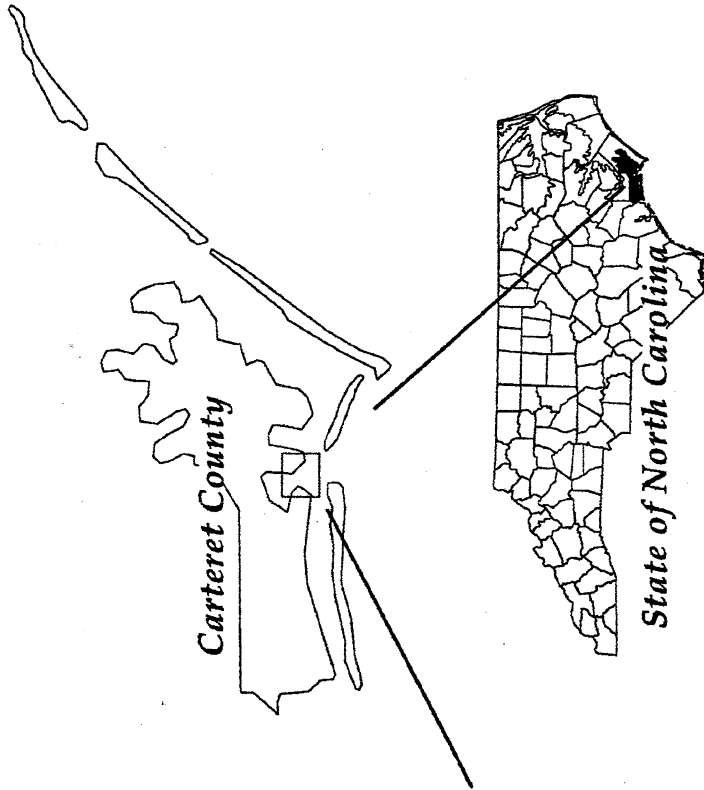


Brian L. Dunn

Chief, Office of Bridge Programs

U.S. Coast Guard

By direction of the Commandant

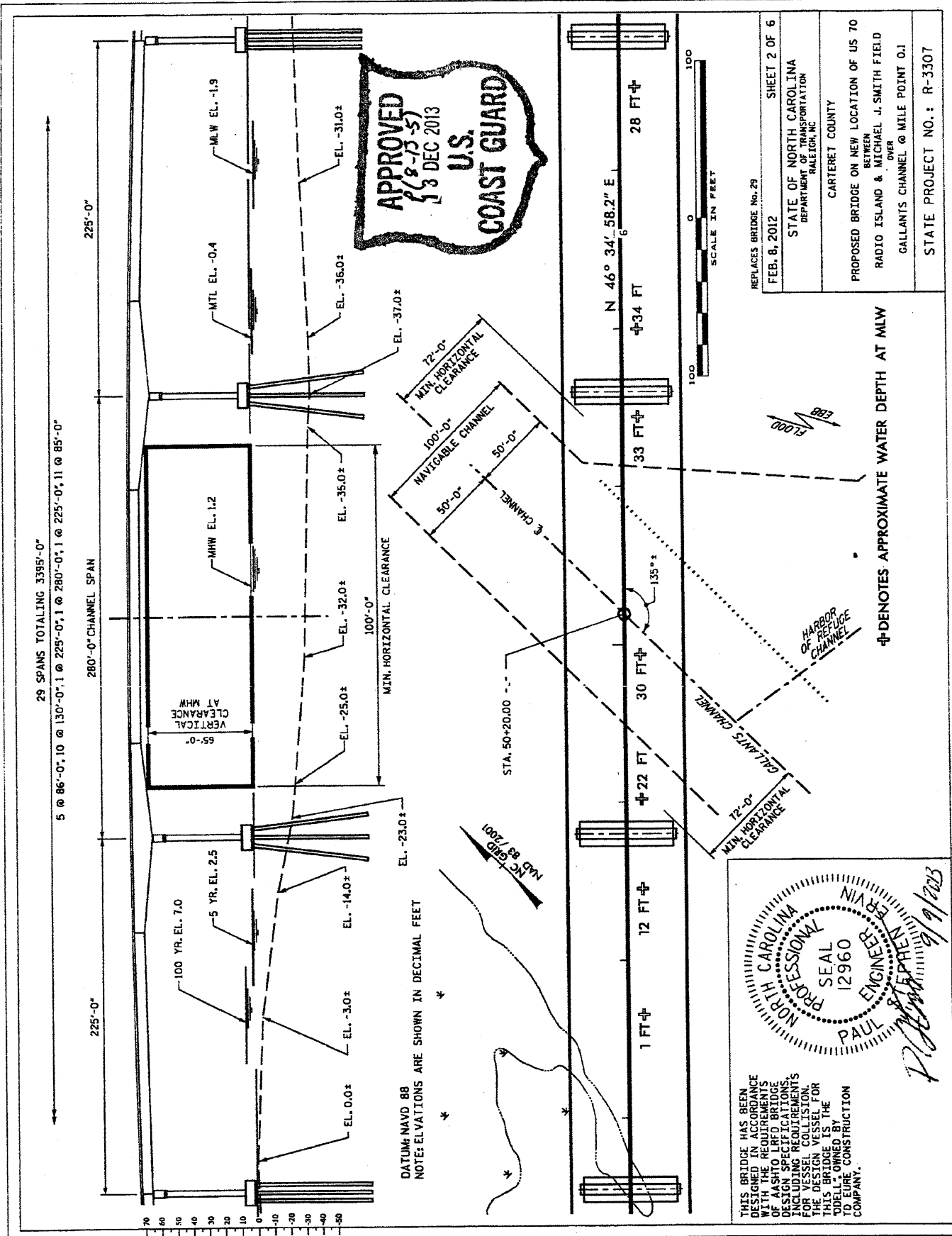


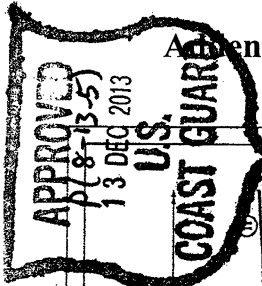
REPLACES BRIDGE No. 29	SHEET 1 OF 6
FEB. 8, 2012	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, NC
CARTERET COUNTY	
PROPOSED BRIDGE ON NEW LOCATION OF US 70 BETWEEN RADIO ISLAND & MICHAEL J. SMITH FIELD OVER GALLANTS CHANNEL @ MILE POINT 0.1	
STATE PROJECT NO. : R-3307	



THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDING REQUIREMENTS FOR VESSEL COLLISION. THE DESIGN VESSEL FOR THIS BRIDGE IS THE "MODEL" OWNED BY THE TD EURE CONSTRUCTION COMPANY.

PAUL E. EWING
PROFESSIONAL ENGINEER
SEAL 12960
NORTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
12/13/13

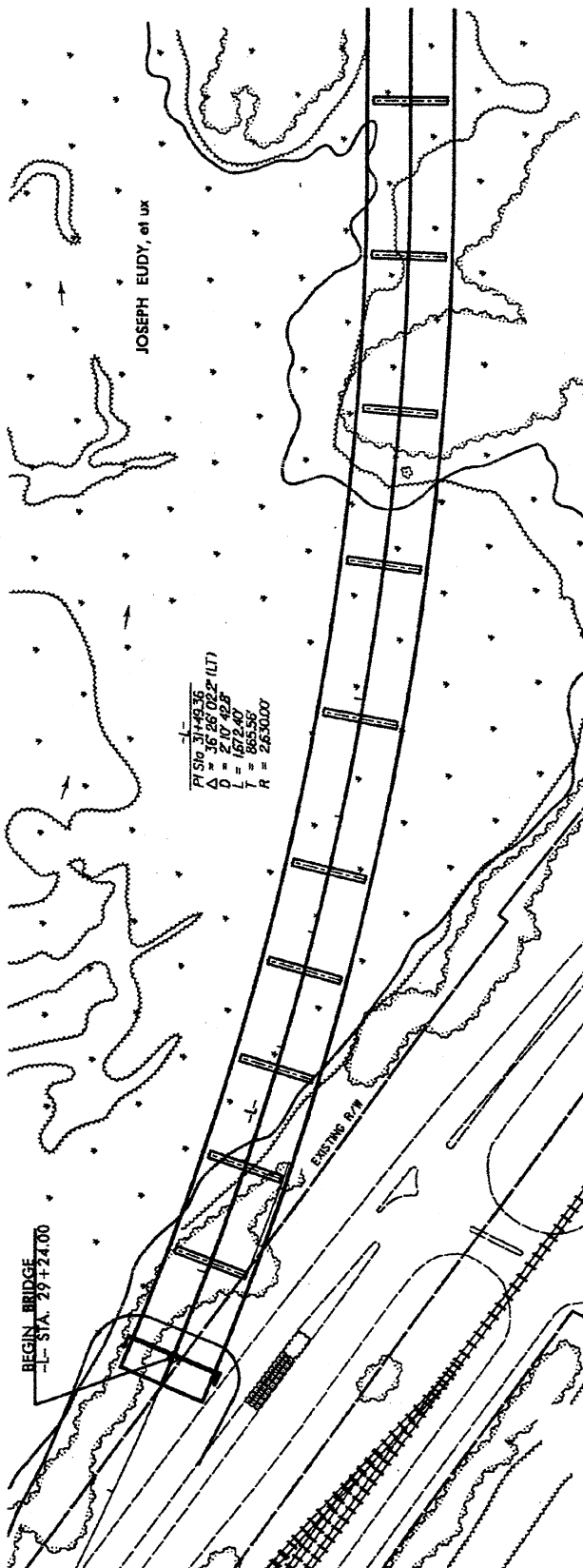
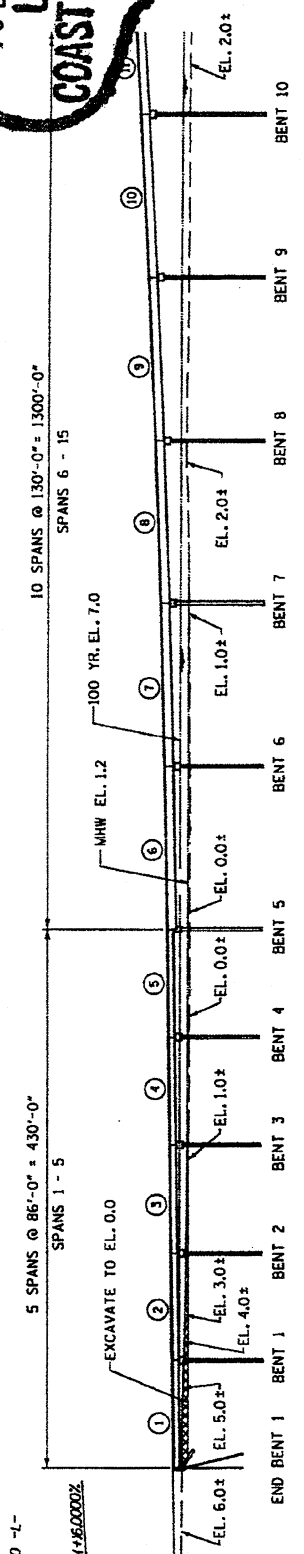




Amendment No. 1

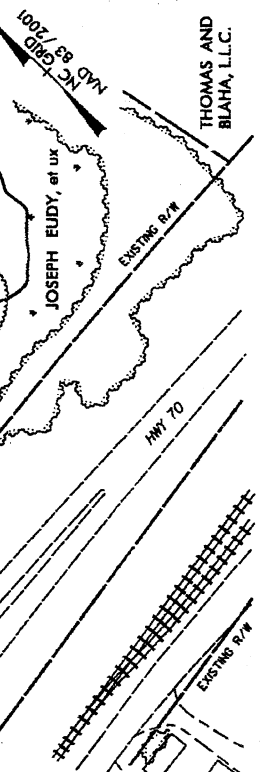
R-61

New 1-14-14



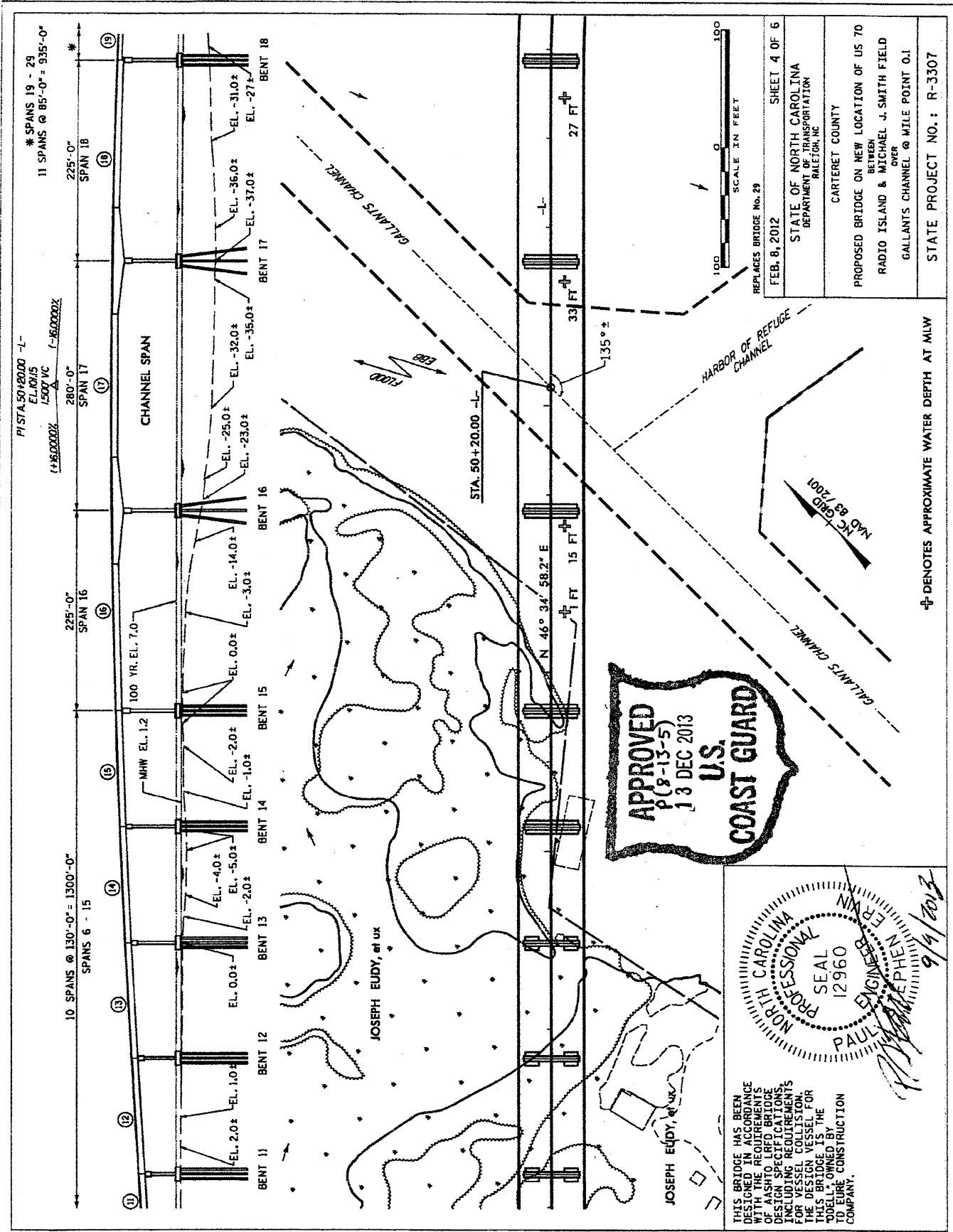
SCALE 3/4" = 1' FEET
 100 0 100
 REPLACES BRIDGE No. 29
 FEB. 8, 2012
 SHEET 3 OF 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH, NC
 CARTERET COUNTY
 PROPOSED BRIDGE ON NEW LOCATION OF US 70
 BETWEEN
 RADIO ISLAND & MICHAEL J. SMITH FIELD
 OVER
 GALLANTS CHANNEL @ MILE POINT O.J.
 STATE PROJECT NO.: R-3307

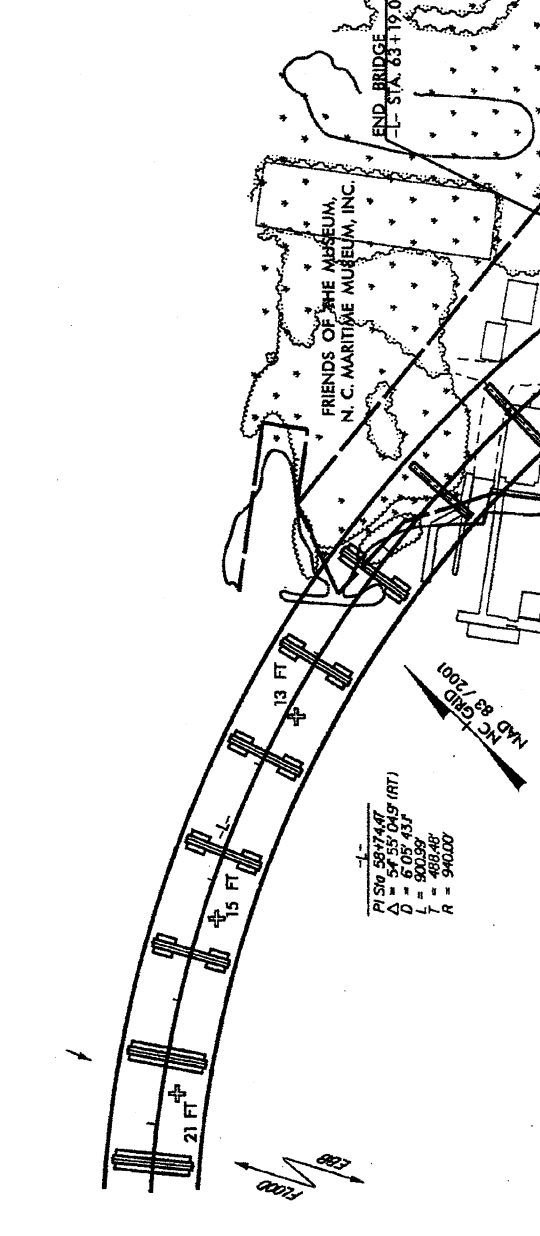
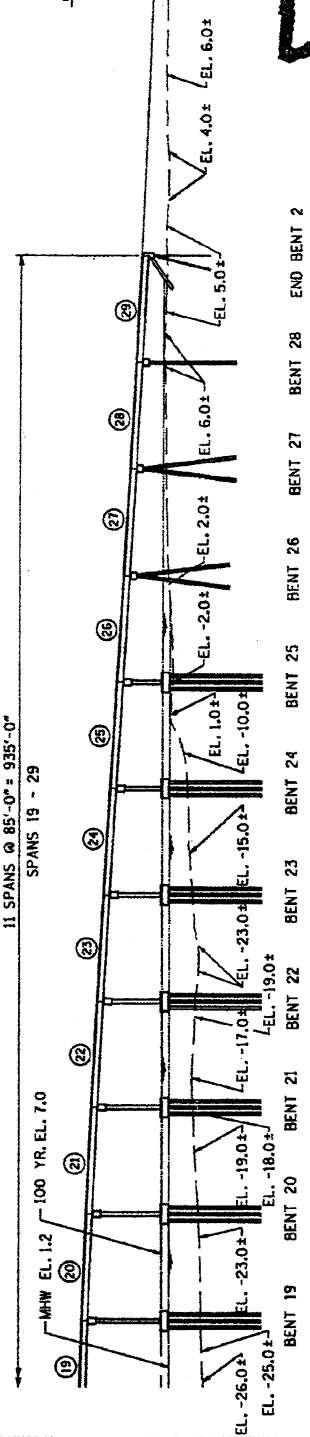
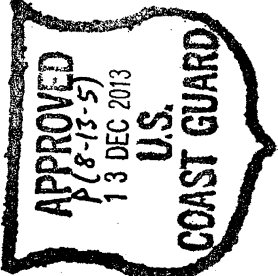


THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDING REQUIREMENTS FOR VESSEL COLLISION. THE DESIGN VESSEL FOR THIS BRIDGE IS THE "TODD" OWNED BY THE TOEURE CONSTRUCTION COMPANY.

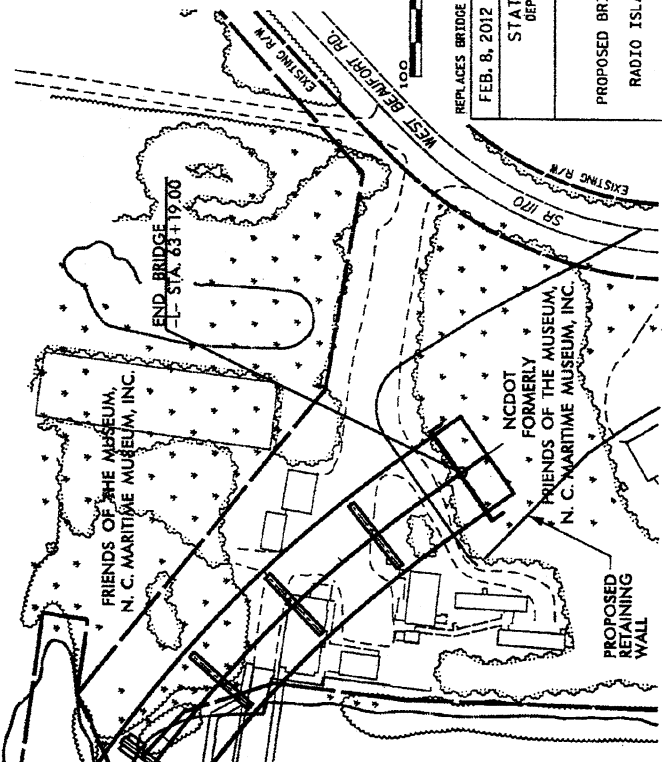
PAUL ERVIN
 PROFESSIONAL ENGINEER
 SEAL 12960
 NORTH CAROLINA
 7/19/2013



PI STA 65+35.00 -L-
 EL. 60.25
 870' VC
 L=16,000.0'
 I=0.3175%

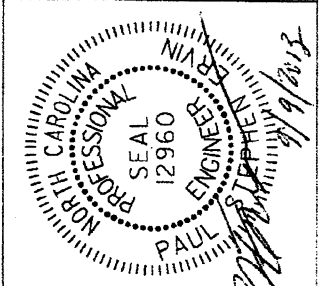


PI STA 58+74.47
 Δ = 54° 55' 04.9" (RT)
 D = 6' 05" 43.7
 L = 900.99'
 R = 468.46'
 R = 590.00'



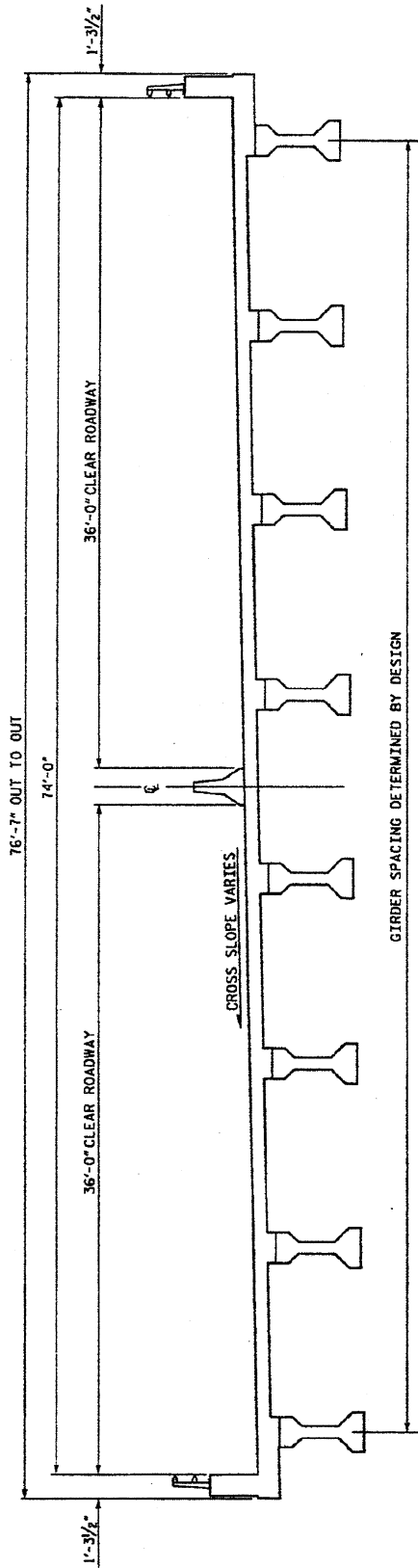
SCALE IN FEET
 0 100

REPLACES BRIDGE No. 29	FEB. 8, 2012	SHEET 5 OF 6
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, NC		
CARTERET COUNTY		
PROPOSED BRIDGE ON NEW LOCATION OF US 70 BETWEEN RADIO ISLAND & MICHAEL J. SMITH FIELD OVER GALLANTS CHANNEL @ MILE POINT 0.1		
STATE PROJECT NO. : R-3307		

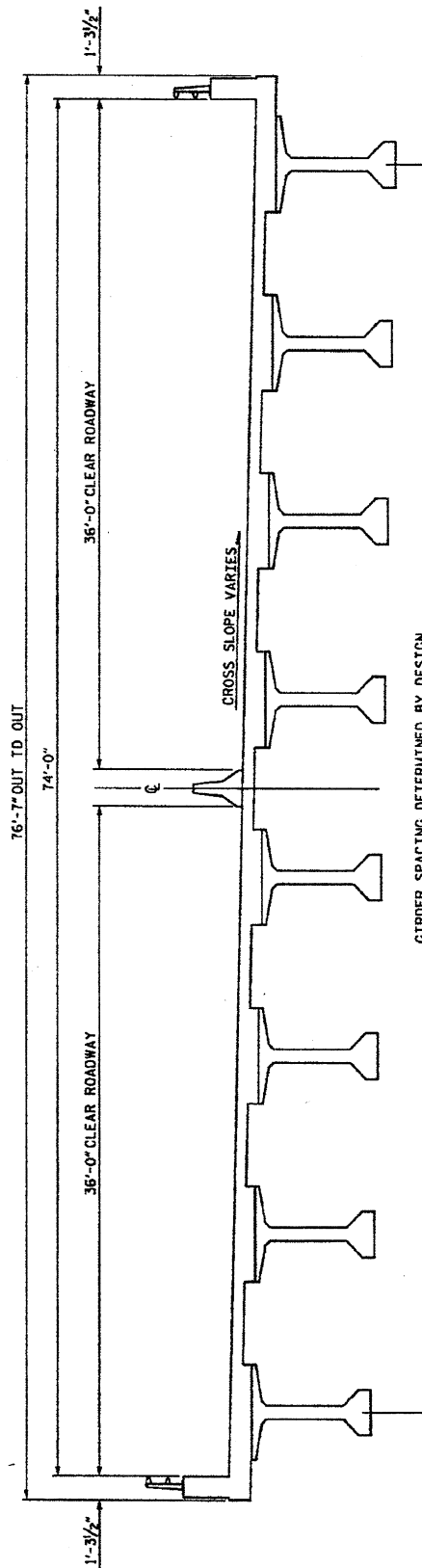


THIS BRIDGE HAS BEEN
 DESIGNED IN ACCORDANCE
 WITH THE REQUIREMENTS
 OF AASHTO LRFD BRIDGE
 DESIGN SPECIFICATIONS,
 INCLUDING REQUIREMENTS
 FOR THE DESIGN VESSEL FOR
 THIS BRIDGE IS THE
 "ODELL", OWNED BY
 TO EURE CONSTRUCTION
 COMPANY.

Paul Stephen Devin
 1/9/2013

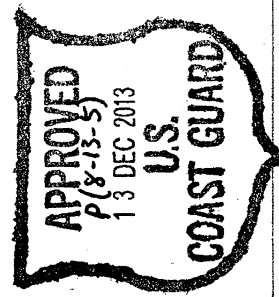
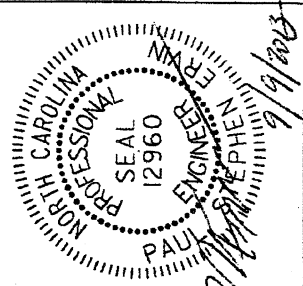


TYPICAL SECTION
SPANS 1 - 5 & SPANS 19 - 29



TYPICAL SECTION
SPANS 6 - 18

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDING REQUIREMENTS FOR VESSEL COLLISION. THIS BRIDGE IS THE PROPERTY OF THE NORTH CAROLINA TURNPIKE CONSTRUCTION COMPANY.



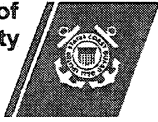
REPLACES BRIDGE No. 29	FEB. 8, 2012	SHEET 6 OF 6
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, NC		
CARTERET COUNTY		
PROPOSED BRIDGE ON NEW LOCATION OF US 70 BETWEEN RADIO ISLAND & MICHAEL J. SMITH FIELD OVER GALLANTS CHANNEL @ MILE POINT 0.1		
STATE PROJECT NO.: R-3307		

Addendum No. 1

R-65

New 1-14-14

U.S. Department of
Homeland Security



United States
Coast Guard

Commander
United States Coast Guard
Fifth Coast Guard District

431 Crawford Street
Portsmouth, Va. 23704-5004
Staff Symbol: (dpb)
Phone: (757) 398-6557
Fax: (757) 398-6334
Email: James.L.Rouseau2@uscg.mil

16591
10 JAN 2014

Mr. Richard W. Hancock, P.E., Manager
Project Development & Environmental Analysis Unit
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, NC 27699-1548

Dear Mr. Hancock:

We reviewed the bridge lighting plan for the US 70 Bridge over Gallants Channel at Beaufort, in Currituck County, NC. The bridge lighting plan is approved and a copy enclosed for your files. No deviation from the approved plan may be made unless the modifications are submitted to and approved by this office. If you should have any questions regarding this matter, please contact Jim Rousseau at the above-listed telephone number.

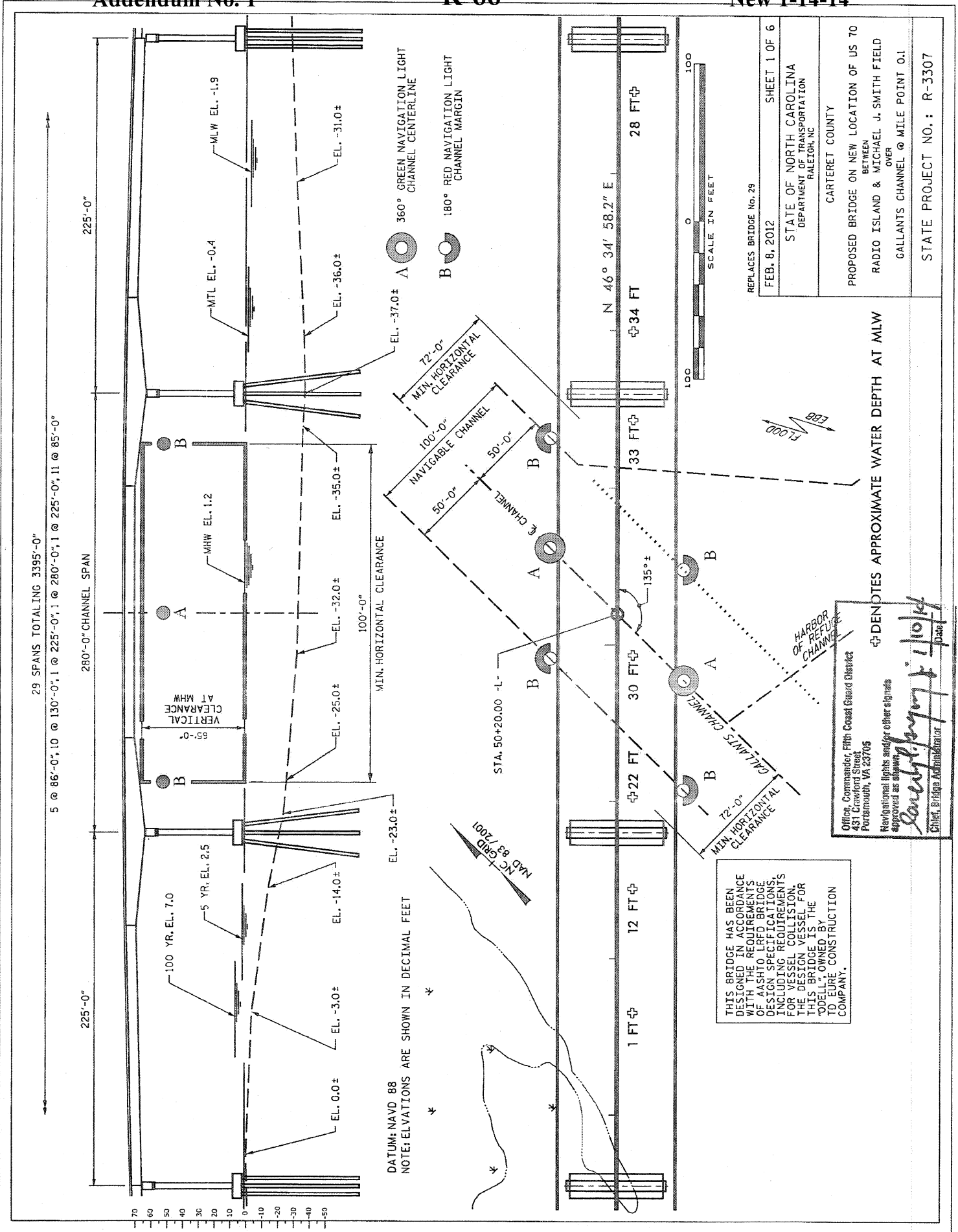
Sincerely,

A handwritten signature in cursive script that reads "Waverly W. Gregory, Jr.".

WAVERLY W. GREGORY, JR.
Bridge Program Manager
By direction of the Commander
Fifth Coast Guard District

Encl: Copy of approved navigational lighting plan

Copy: CG Sector North Carolina, Waterways Management w/encl

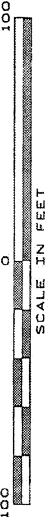


THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDING REQUIREMENTS FOR VESSEL COLLISION. THIS BRIDGE IS THE "ODELL" OWNED BY TD EURE CONSTRUCTION COMPANY.

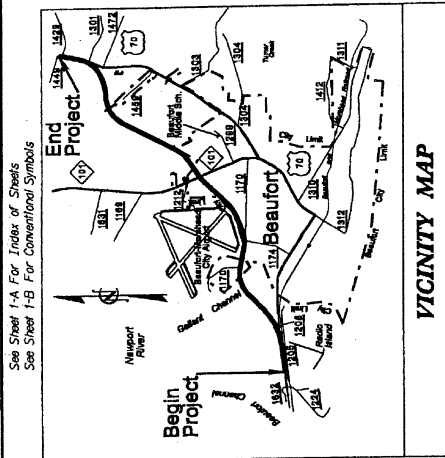
Office Commander, Fifth Coast Guard District
 431 Crawford Street
 Portsmouth, VA 23705
 Navigational lights and/or other signals approved as shown
[Signature]
 Chief, Bridge Administrator

INDICATES APPROXIMATE WATER DEPTH AT MLW

REPLACES BRIDGE No. 29	SHEET 1 OF 6
FEB. 8, 2012	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, NC
CARTERET COUNTY	
PROPOSED BRIDGE ON NEW LOCATION OF US 70 BETWEEN RADIO ISLAND & MICHAEL J. SMITH FIELD OVER GALLANTS CHANNEL @ MILE POINT 0.1	
STATE PROJECT NO.: R-3307	



DATUM: NAVD 88
 NOTE: ELEVATIONS ARE SHOWN IN DECIMAL FEET



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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CARTERET COUNTY

LOCATION: US 70 FROM EXISTING FOUR LANES AT RADIO ISLAND TO US 70 NORTH OF SR 1429 (OLGA ROAD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, CURB & GUTTER SIGNALS, CULVERT AND STRUCTURES

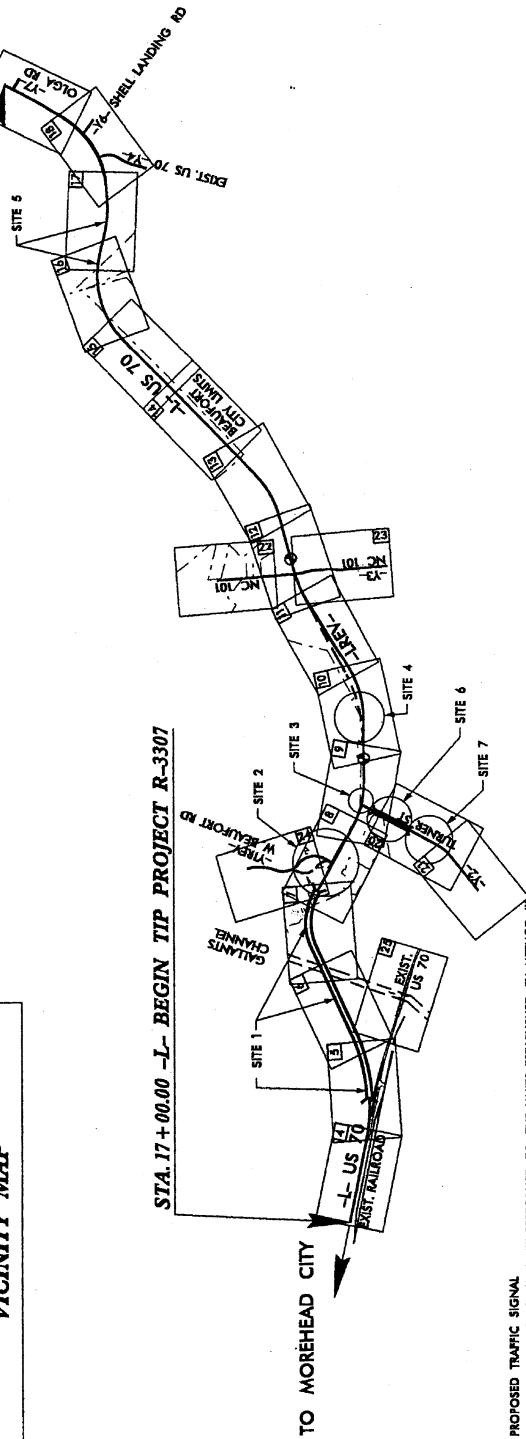
WETLAND & STREAM IMPACTS

STA. 207 + 95.09 -L- END TIP PROJECT R-3307

STATE	N.C.
PROJECT NO.	R-3307
DATE	1
DESIGNER	STRANHE 201(3)
CHECKER	STPHN-201(9)
DATE	3/29/12
SCALE	AS SHOWN
PROJECT	PERMIT
NO.	1
OF	34

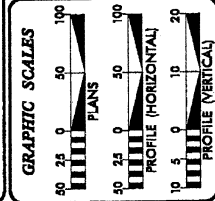
Permit Drawing
Sheet 1 of 34

TO BETTIE



STA. 17 + 00.00 -L- BEGIN TIP PROJECT R-3307

★ PROPOSED TRAFFIC SIGNAL CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III. A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF BEAUFORT. THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.



DESIGN DATA

ADT 2011	= 27620
ADT 2031	= 39389
DIV	= 11 %
T	= 60 %
D	= 5 %
V (SHOULDER)	= 60 MPH**
V (CURB & GUTTER)	= 50 MPH**
* (T)ST 1 % + DUAL 4) %	
FUNC. CLASS = ANTENNA	
STATEWIDE IRR	

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT R-3307	= 2.980 MI
LENGTH OF STRUCTURE PROJECT R-3307	= 0.643 MI
TOTAL LENGTH OF P.A. PROJECT STPHN-70(43)	= 3.623 MI

Prepared in the office of:

DIVISION OF HIGHWAYS
1669 Birch Ridge Dr., Raleigh, NC, 27618

RIGHT OF WAY DATE: JULY 18, 2008
LETTING DATE: JULY 17, 2012

BRENDA MOORE, PE
PROJECT MANAGER

BEKHA PATEL, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER: _____ PE

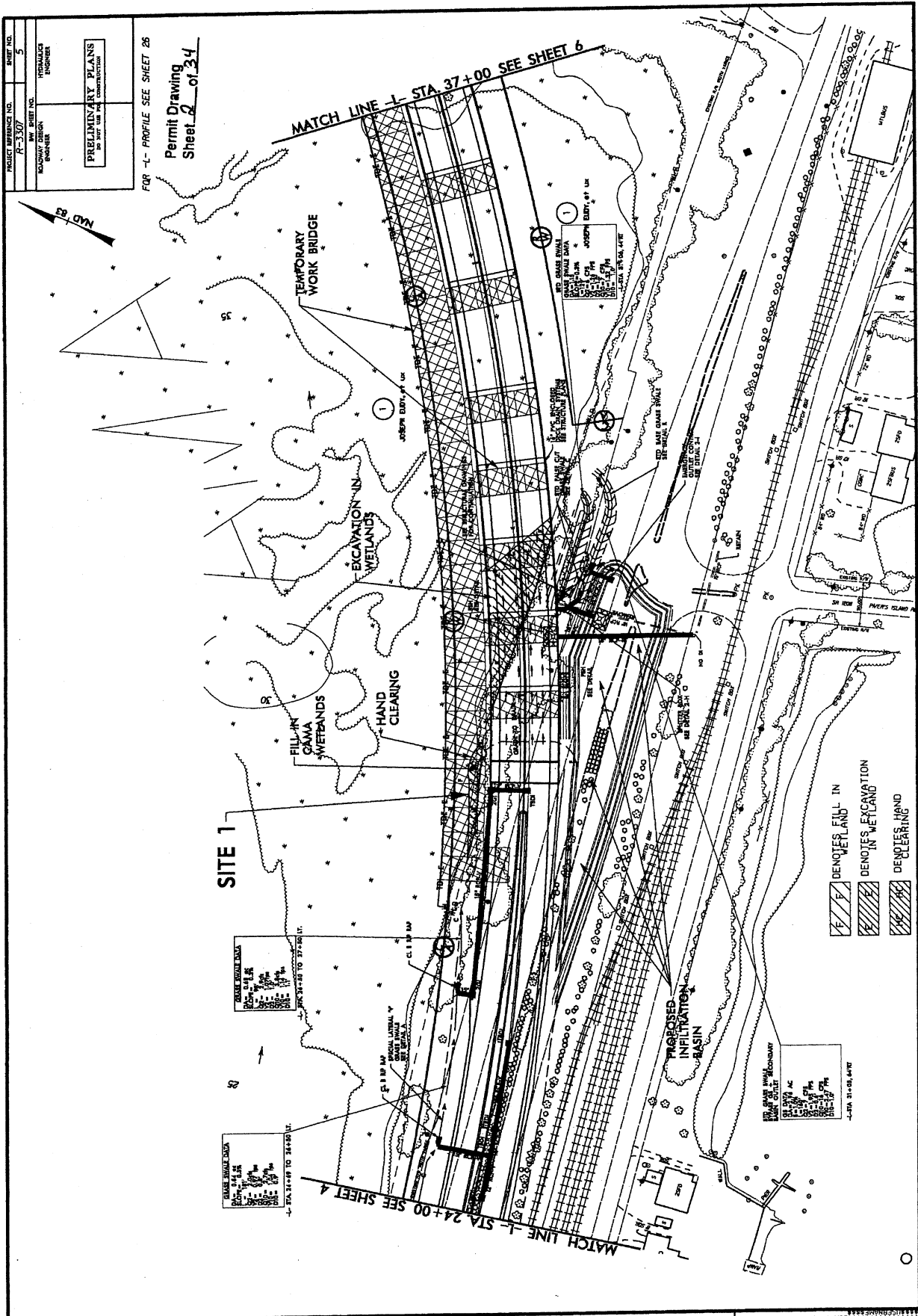
ROADWAY DESIGN ENGINEER: _____ PE

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER: _____ PE

CONTRACT: TIP PROJECT: R-3307

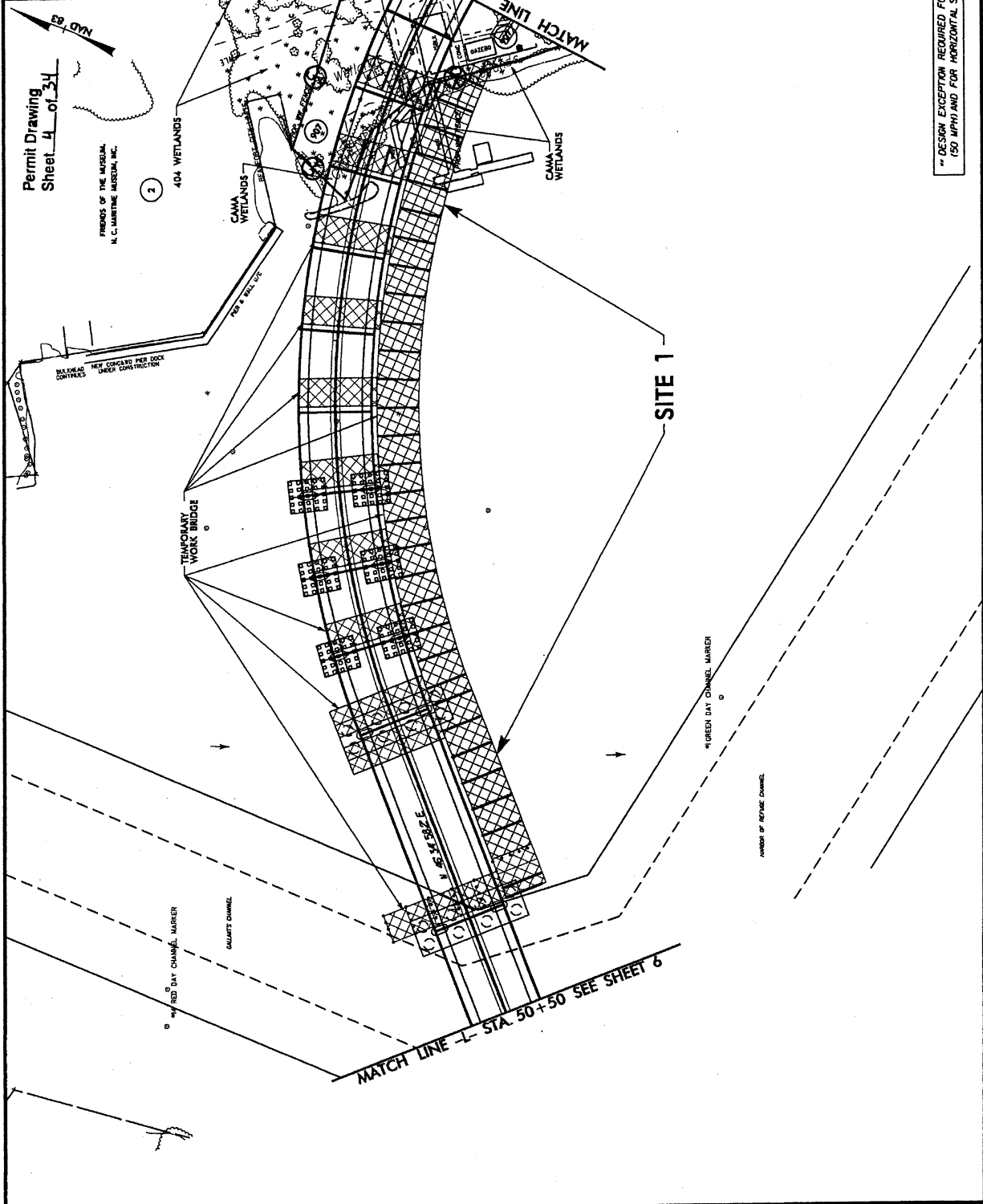


REVISIONS

R/M REV. 07/29/10 (MNR) REVISED PROPOSED TEMPORARY CONSTRUCTION EASEMENT ON PARCEL 1.
 R/M REV. 07/29/10 (MNR) REVISED PROPOSED TEMPORARY CONSTRUCTION EASEMENT ON PARCEL 1.

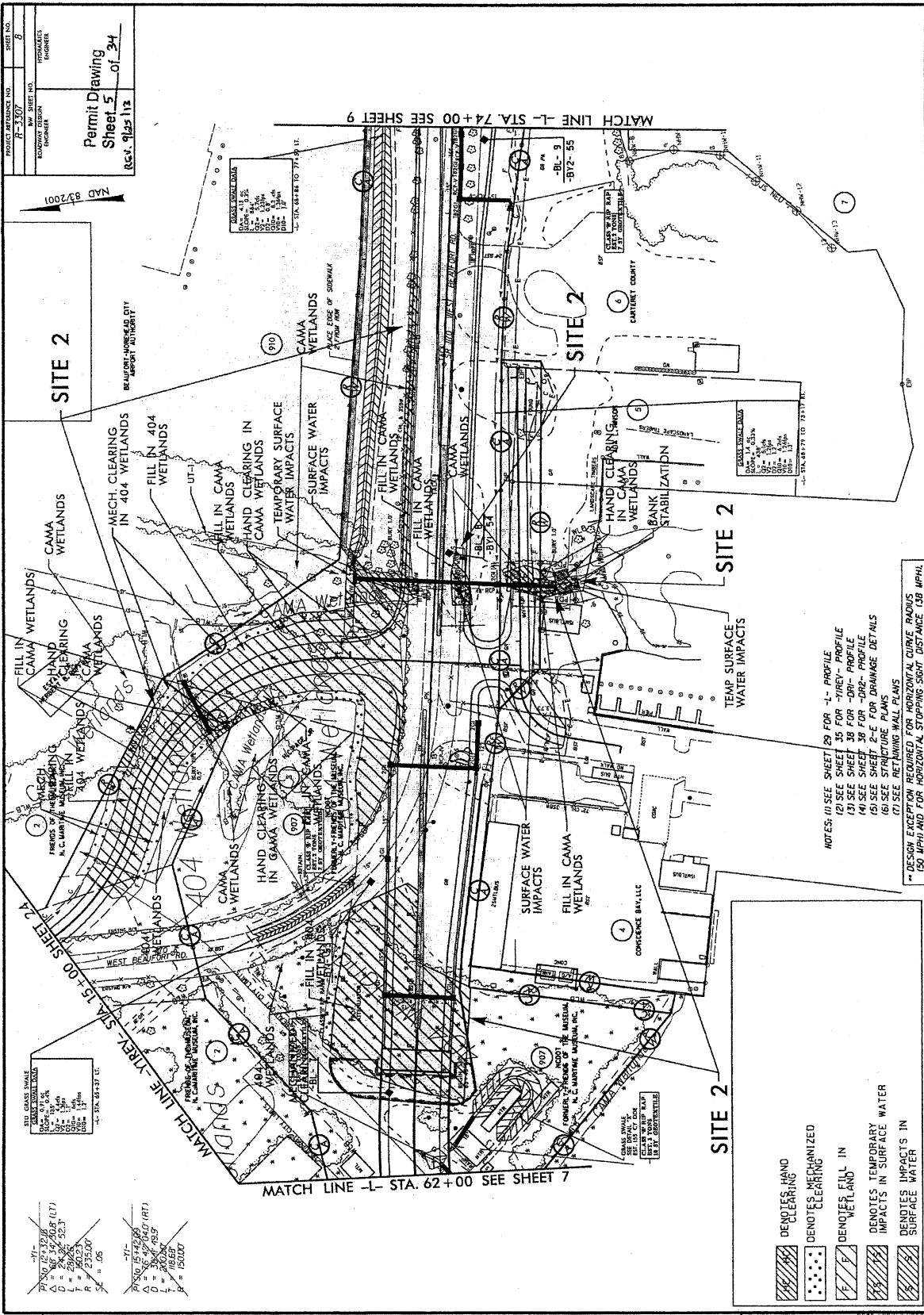
PROJECT REFERENCE NO.	R-3307
SHEET NO.	7
DATE	NOVEMBER 2013
DESIGNER	PERKINS+WILL
APPROVER	PERKINS+WILL
PRELIMINARY PLANS NO SITE USE OR CONSTRUCTION	

FOR "L" PROFILE SEE SHEET 28



** DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE BANKS
150 MPH AND FOR HORIZONTAL STOPPING SHORT DISTANCE (58 MPH)

9/17/99
P/W REV. 03/29/10 (N/A) REVISED EXIST. P/L TO MAINTAIN OFFSET.
REVISIONS



PROJECT NO. R-1397
SHEET NO. 9
CIVIL ENGINEER

Permit Drawing
Sheet 5 of 34
(REV. 9/25/12)

NO.	DESCRIPTION	DATE
1	REVISED PER CITY COMMENTS	08/14/13
2	REVISED PER CITY COMMENTS	09/25/12
3	REVISED PER CITY COMMENTS	09/25/12
4	REVISED PER CITY COMMENTS	09/25/12
5	REVISED PER CITY COMMENTS	09/25/12

- NOTES:
- (1) SEE SHEET 29 FOR -L- PROFILE
 - (2) SEE SHEET 35 FOR -MREV- PROFILE
 - (3) SEE SHEET 38 FOR -DR1- 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
 - (8) SEE RETAINING WALL PLANS
 - (9) SEE RETAINING WALL PLANS
- DESIGN SPEED FOR ROADWAY: 15 MPH
DESIGN CURVE RADIUS: 150 FT
DESIGN STOPPING SIGHT DISTANCE: 150 FT

DENOTES HAND CLEARING

DENOTES MECHANIZED CLEARING

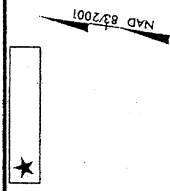
DENOTES FILL IN WETLAND

DENOTES TEMPORARY SURFACE WATER IMPACTS

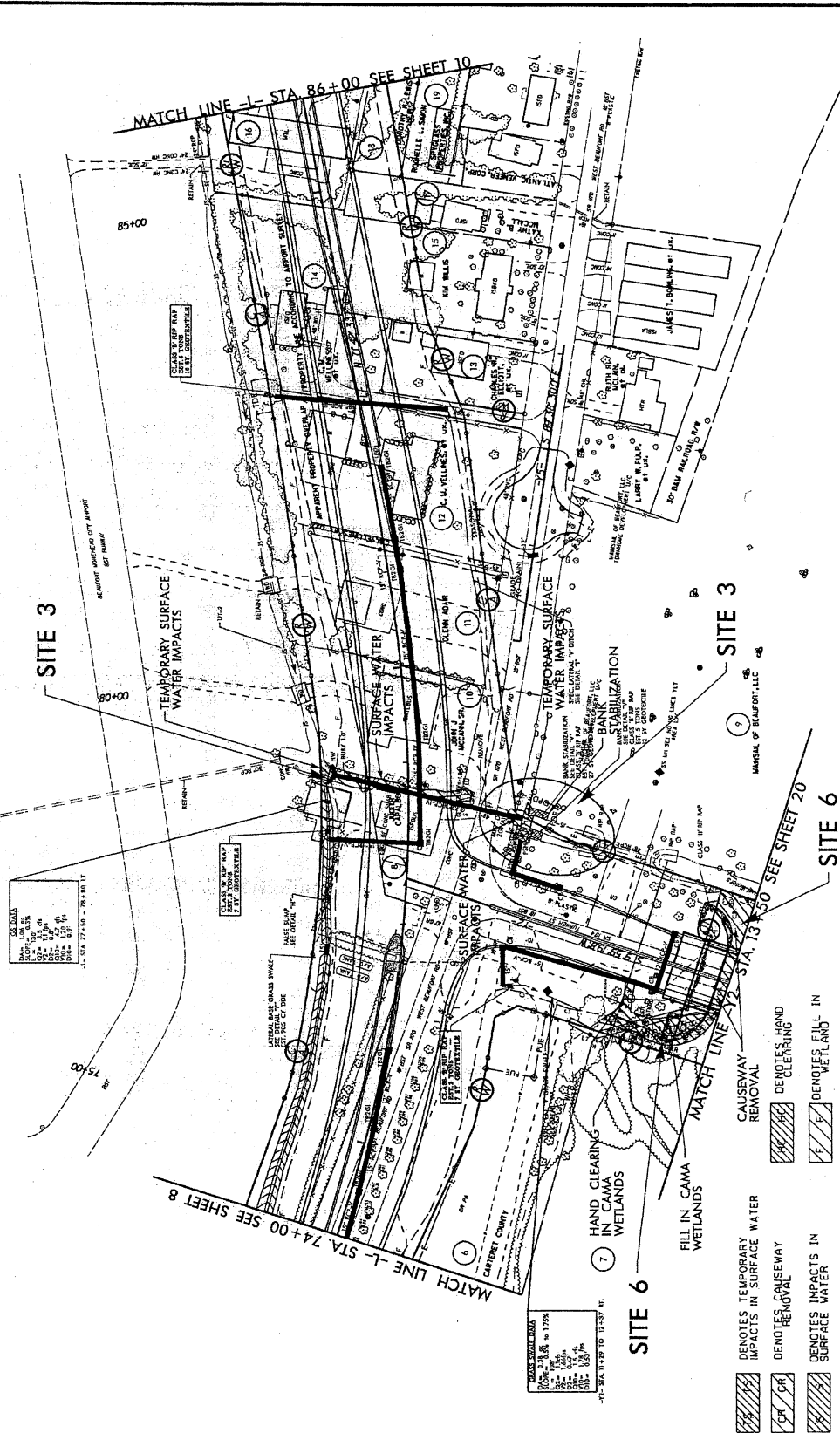
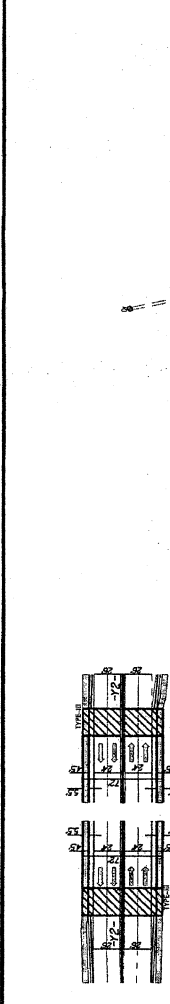
DENOTES SURFACE WATER IMPACTS

REVISIONS

PROJECT NUMBER: INC. 71	SHEET NO. 9
71-000000-000	AM. ALLEN INC.
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing	
Sheet 6 of 34	
REV. 9/25/13	



910
 BEAUFORT-MARSHALL CITY AIRPORT AUTHORITY



GRAVEL BANK

15% - 10% SAND	15% - 10% SILT	15% - 10% CLAY
65% - 70% GRAVEL	65% - 70% GRAVEL	65% - 70% GRAVEL
15% - 10% SILT	15% - 10% CLAY	15% - 10% CLAY

GRAVEL BANK

15% - 10% SAND	15% - 10% SILT	15% - 10% CLAY
65% - 70% GRAVEL	65% - 70% GRAVEL	65% - 70% GRAVEL
15% - 10% SILT	15% - 10% CLAY	15% - 10% CLAY

- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES REMOVAL OF CAUSEWAY
- DENOTES IMPACTS IN SURFACE WATER
- CAUSEWAY REMOVAL
- DENOTES HAND CLEARING
- DENOTES FILL IN WETLAND

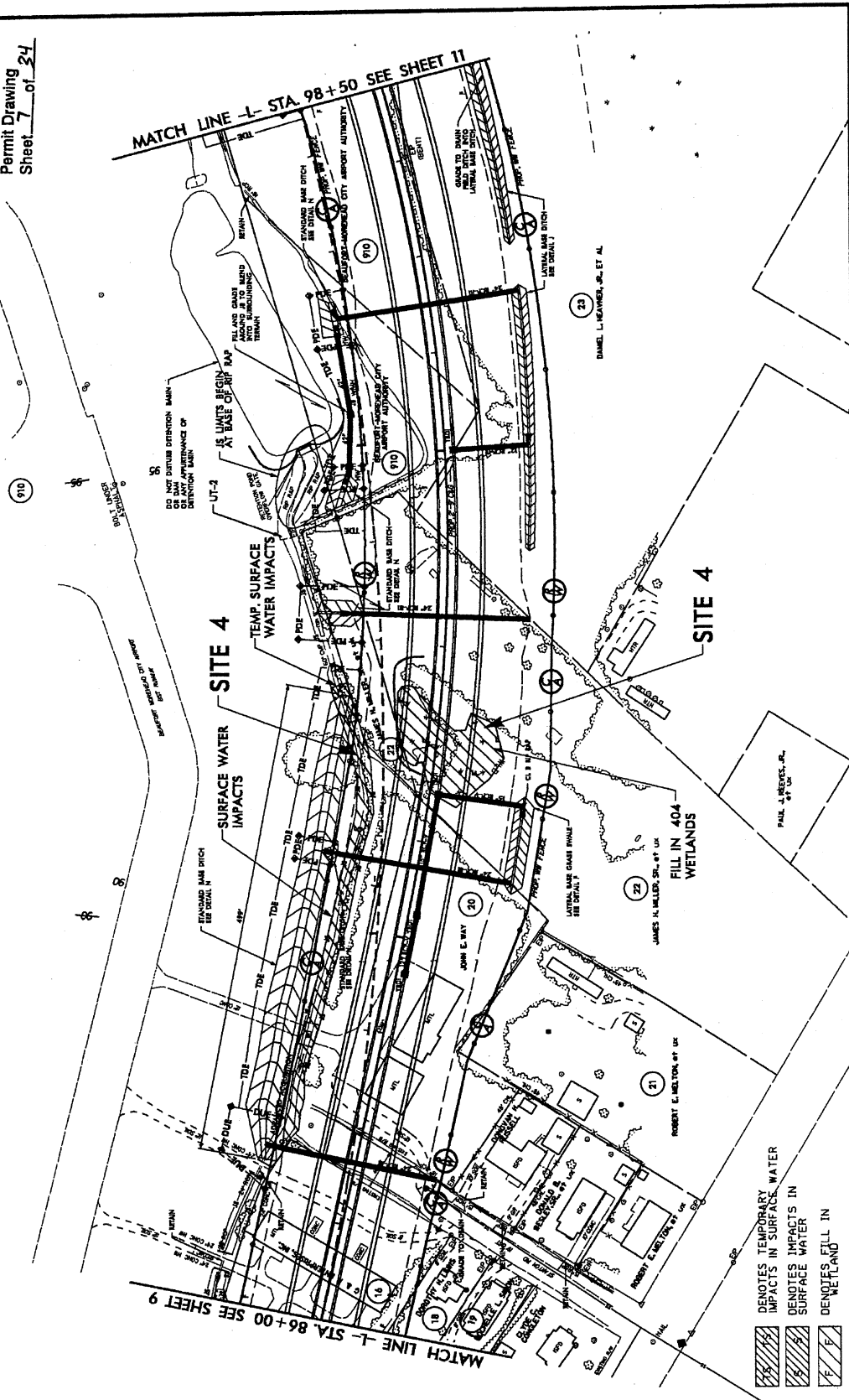
REVISIONS

PROJECT REFERENCE NO.	7-337	SHEET NO.	70
DATE	10/1/13	ENGINEER	HYDRAULIC ENGINEER
PRELIMINARY PLANS NO NOT FOR CONSTRUCTION			

FOR -LREV- PROFILE SEE SHEET 30
 Permit Drawing
 Sheet 7 of 34



BEAUFORT-MORSEHEAD CITY
 AIRPORT AUTHORITY

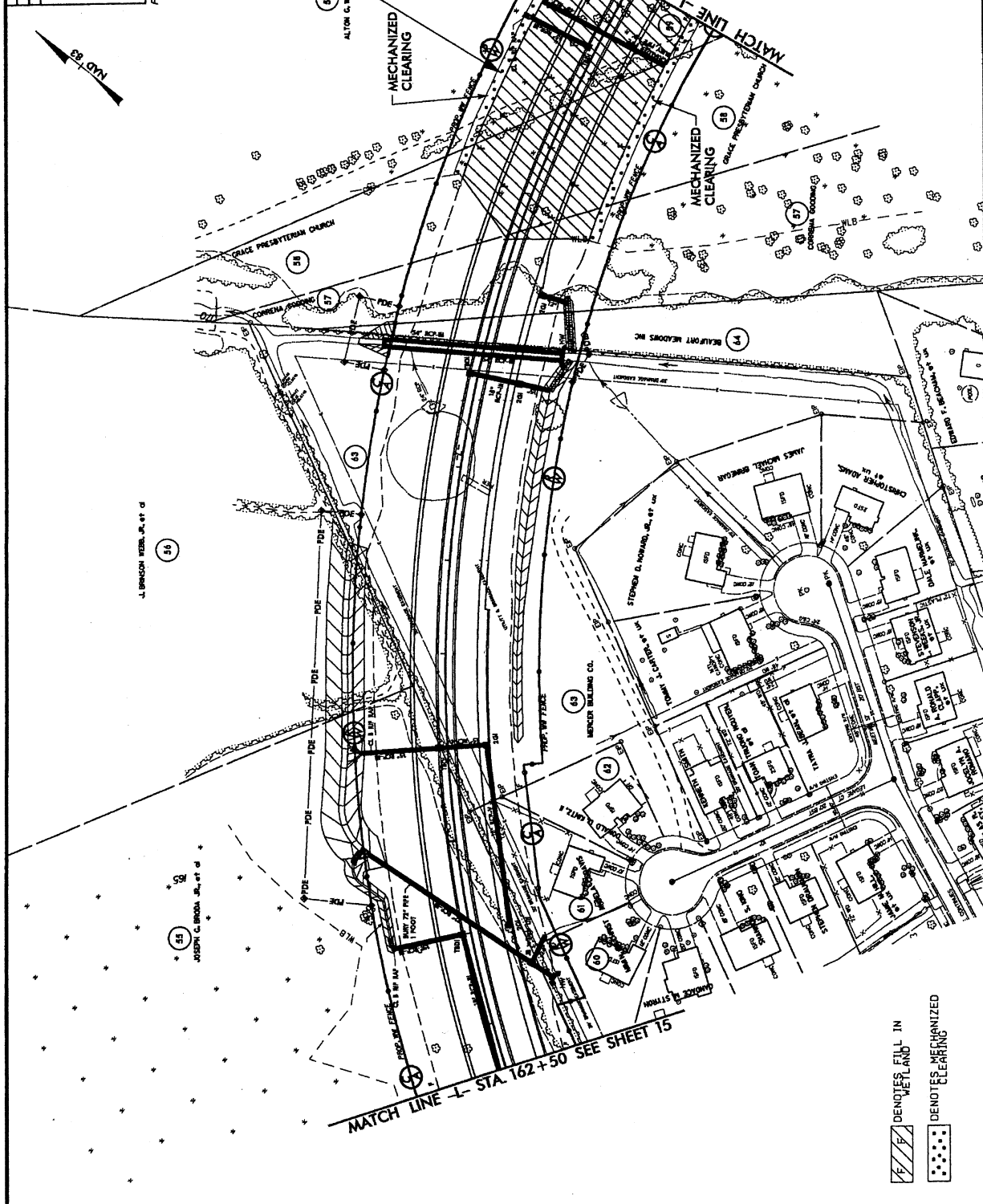




- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND

R/W REV. 07/29/10 (KMM) DELETED EXIST/PROP R/W TO MINERAL OFFSET.
 R/W REV. 04/18/11 (KMM) DELETED POE/REVISED TOE AND ADDED DUE ON PARCEL 90.
 REVISIONS
 8/17/99

PROJECT REFERENCE NO. R-2307	SHEET NO. 16
ROWWAY DESIGN DIVISION	FORWAHLER ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

FOR "L" PROFILE SEE SHEET 33
 Permit Drawing
 Sheet 8 of 34

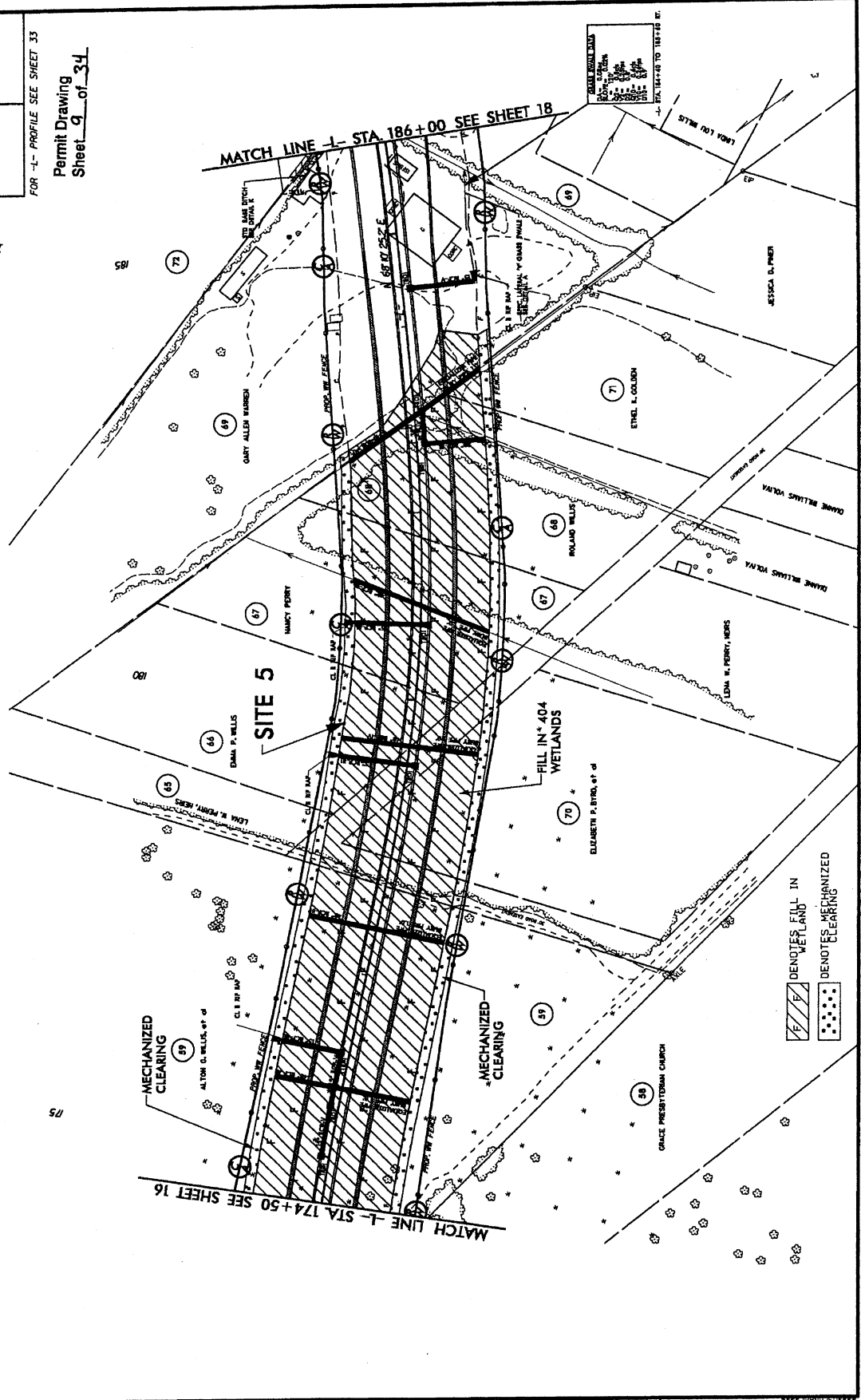
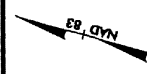




 DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING

REVISIONS
 R/W REV. 07/29/10 (R/W) REVISED EXIST/PROP R/W TO NUMERICAL OFFSET.
 08/17/09

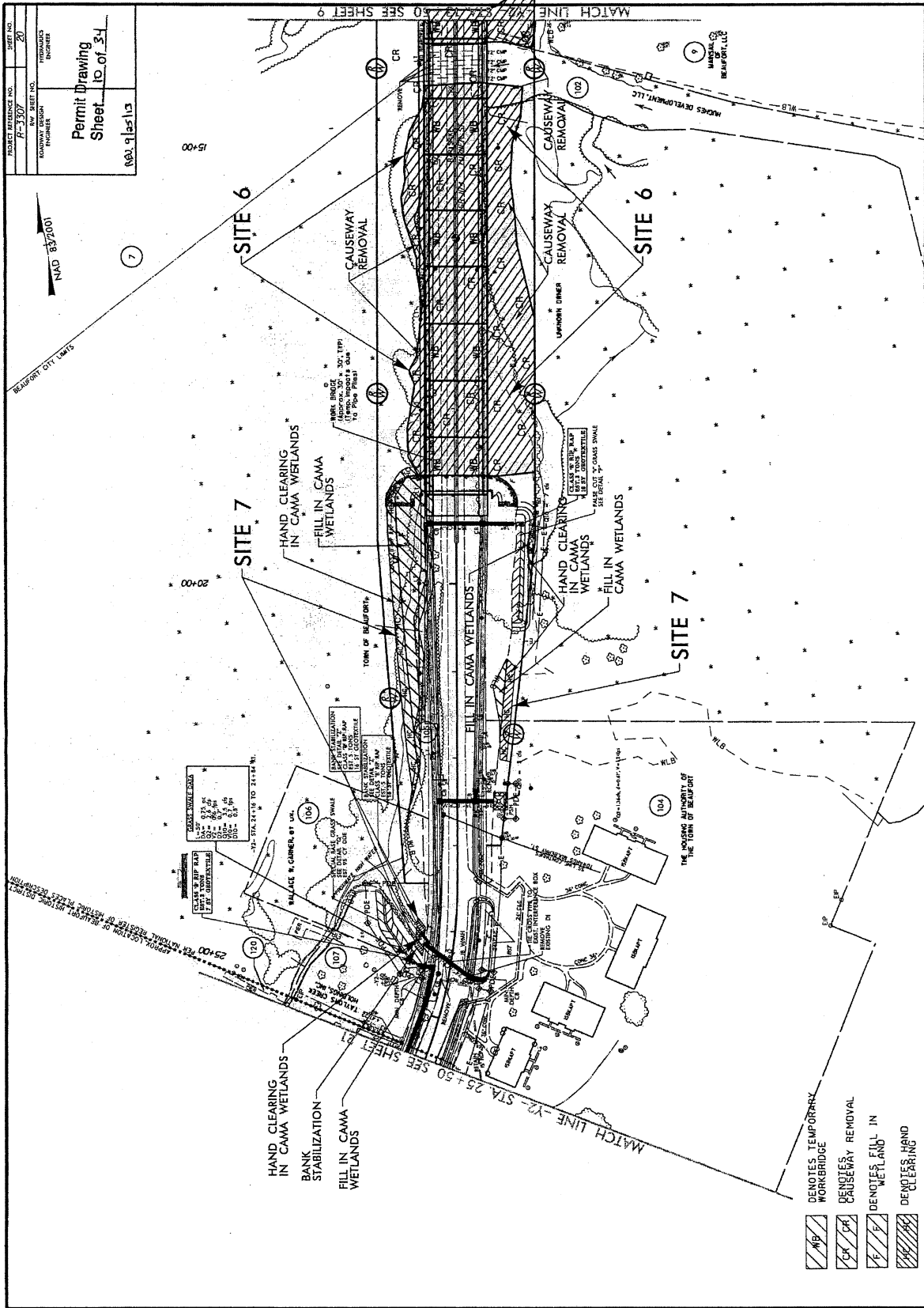
PROJECT REFERENCE NO. R-5507	SHEET NO. 77
DATE NOVEMBER 2011	DESIGNED BY C. J. WILSON
CHECKED BY C. J. WILSON	APPROVED BY C. J. WILSON
PRELIMINARY PLANS FOR THE CONSTRUCTION OF A ROADWAY	

FOR -L- PROFILE SEE SHEET 33
 Permit Drawing
 Sheet 9 of 34



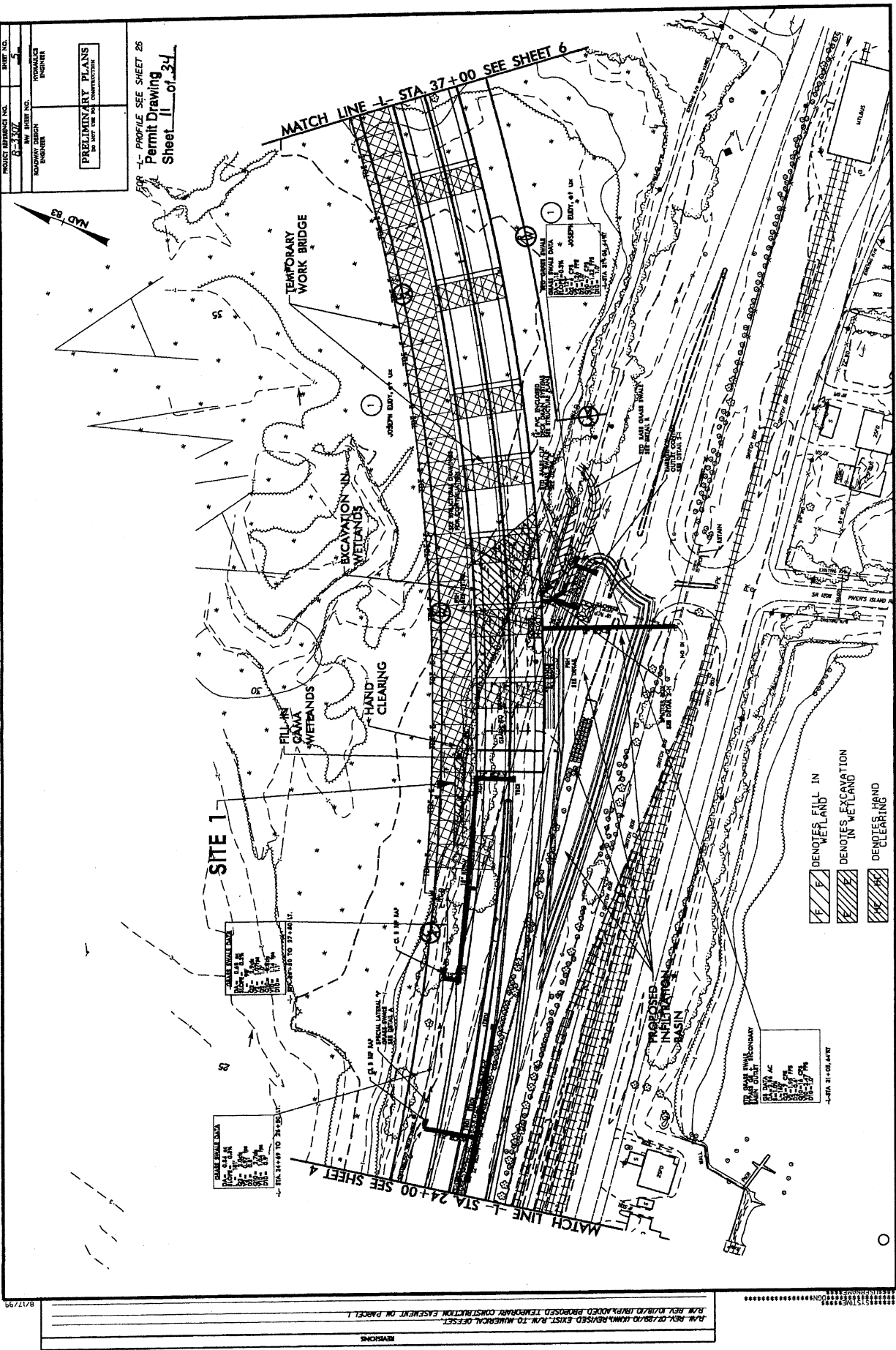
 DENOTES FILL IN WETLANDS
 DENOTES MECHANIZED CLEARING

REVISIONS
 R/W REV. 07/29/10 (M/R) REVISED PROP R/W TO NUMERICAL OFFSET.
 8/17/99



REVISIONS

NO.	DATE	DESCRIPTION



ALL AREAS SHOWN WITHIN THE WETLANDS ARE TO BE RESTORED TO ORIGINAL CONDITION.
 ALL EXCAVATION SHALL BE BACKFILLED WITH NATURAL MATERIALS.
 ALL HAND CLEARING SHALL BE REVEGETATED WITH NATURAL SPECIES.

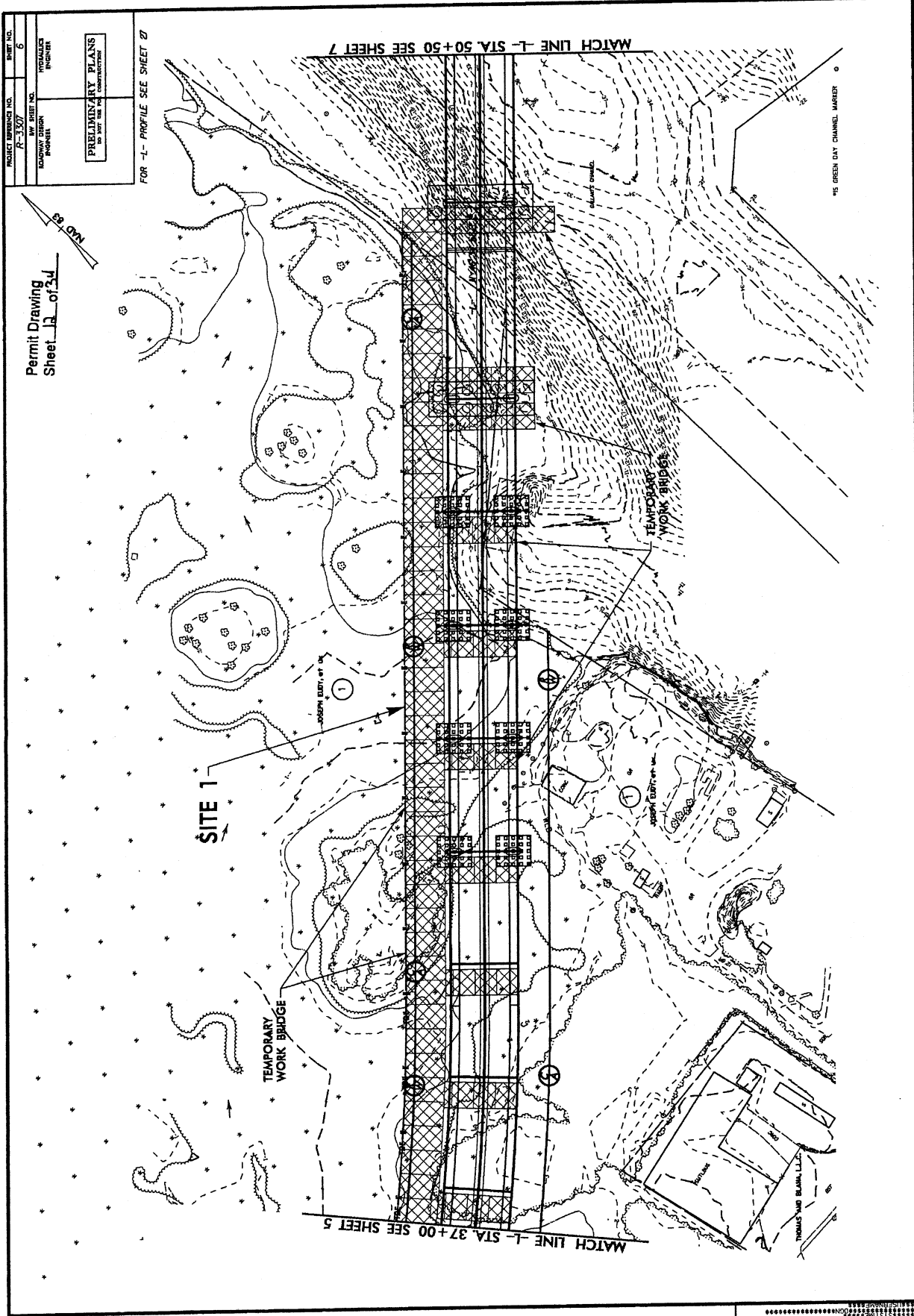
PROJECT REFERENCE NO.	R-3307
PROJECT SHEET NO.	6
DATE OF REVISION	10/20/13
REVISION	REVISION
DATE OF REVISION	10/20/13
REVISION	REVISION
DATE OF REVISION	10/20/13
REVISION	REVISION

Permit Drawing
Sheet 1a of 3d



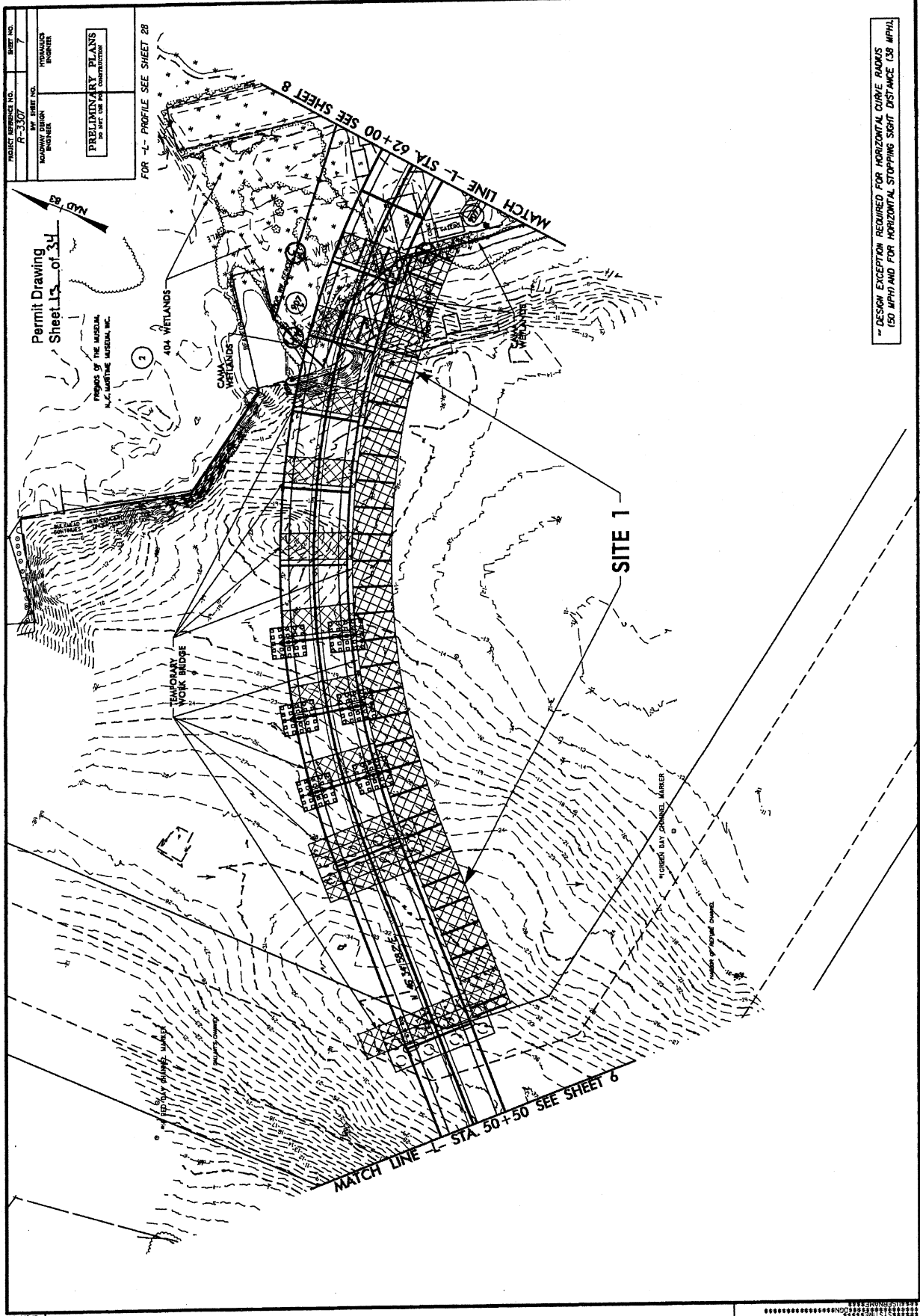
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

FOR -L- PROFILE SEE SHEET 27



8/17/99

REVISIONS



PROJECT REFERENCE NO.	R-3307
SHEET NO.	7
ROADWAY DESIGN ENGINEER	PROVALUIS
PROVALUIS ENGINEER	
PREPARED BY: BRANNS IN CHARGE OF THE PROJECT DATE: 08/14/13	

Permit Drawing
 Sheet 13 of 34
 FRIENDS OF THE MUSEUM
 N.C. MARITIME MUSEUM, INC.

8/17/93

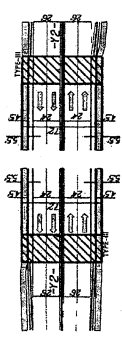
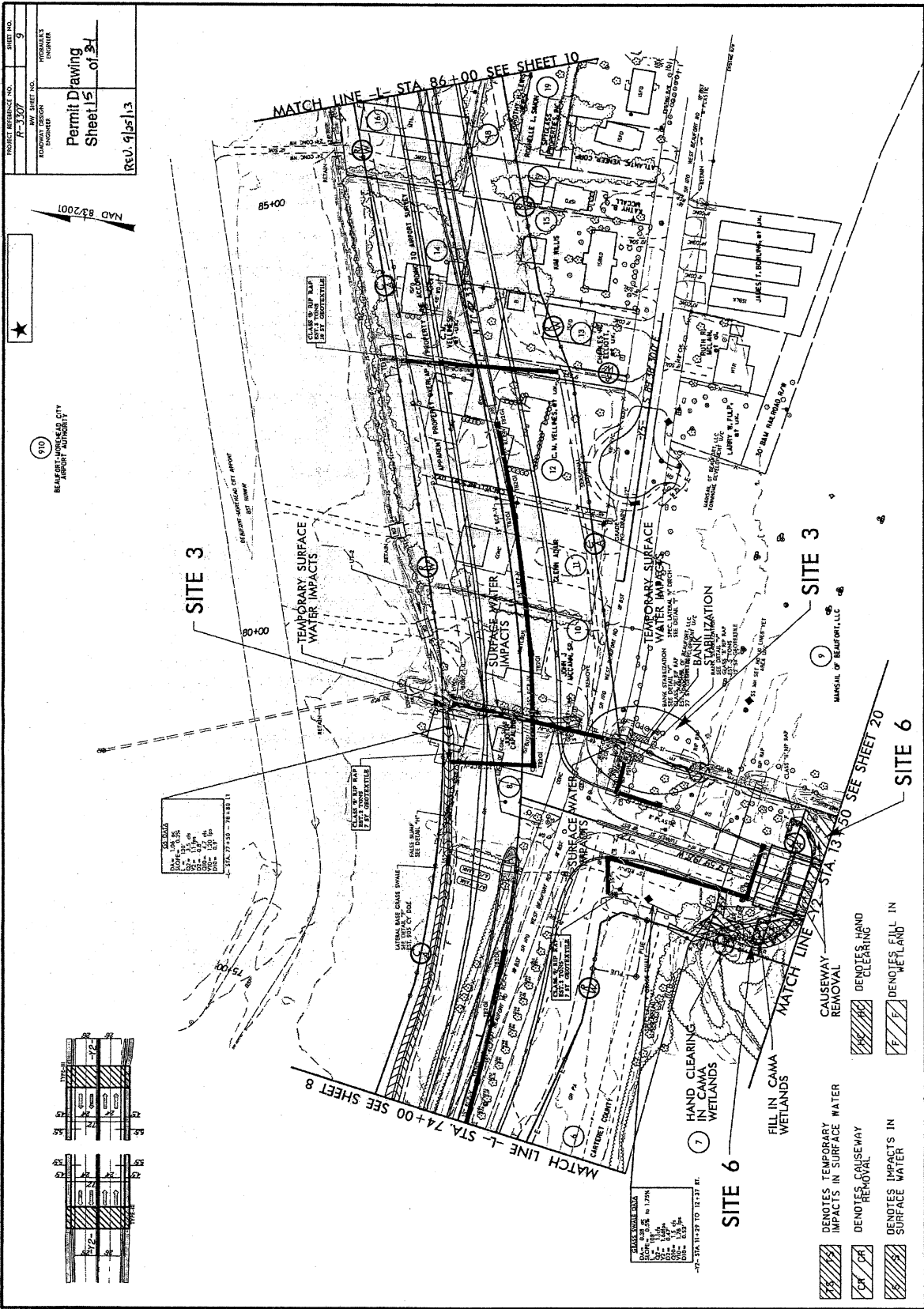
REVISIONS
 R/W REV. 07/29/10 (KMP) REVISED EXIST. P/L TO NUMERICAL OFFSET.

PROJECT REFERENCE NO.	7-3307	SHEET NO.	9
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER		
Permit Drawing Sheet 15 of 31			
REV. 9/25/13			

★

MAD 8/2007

(91) BEAVERHEAD CITY AIRPORT AUTHORITY



AS SHOWN IN PLAN
 10' x 10' x 10' x 10' x 10'
 10' x 10' x 10' x 10' x 10'
 10' x 10' x 10' x 10' x 10'
 10' x 10' x 10' x 10' x 10'

AS SHOWN IN PLAN
 10' x 10' x 10' x 10' x 10'
 10' x 10' x 10' x 10' x 10'
 10' x 10' x 10' x 10' x 10'
 10' x 10' x 10' x 10' x 10'

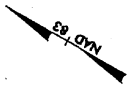
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES CAUSEWAY REMOVAL
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- CAUSEWAY REMOVAL
- DENOTES HAND CLEARING
- DENOTES FILL IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES FILL IN WETLAND

REVISIONS

PROJECT REFERENCE NO.	R-3307
DATE	7/0
DESIGNED BY	PROFESSIONALS
CHECKED BY	ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

FOR -REV- PROFILE SEE SHEET 30

Permit Drawing
Sheet 10 of 31

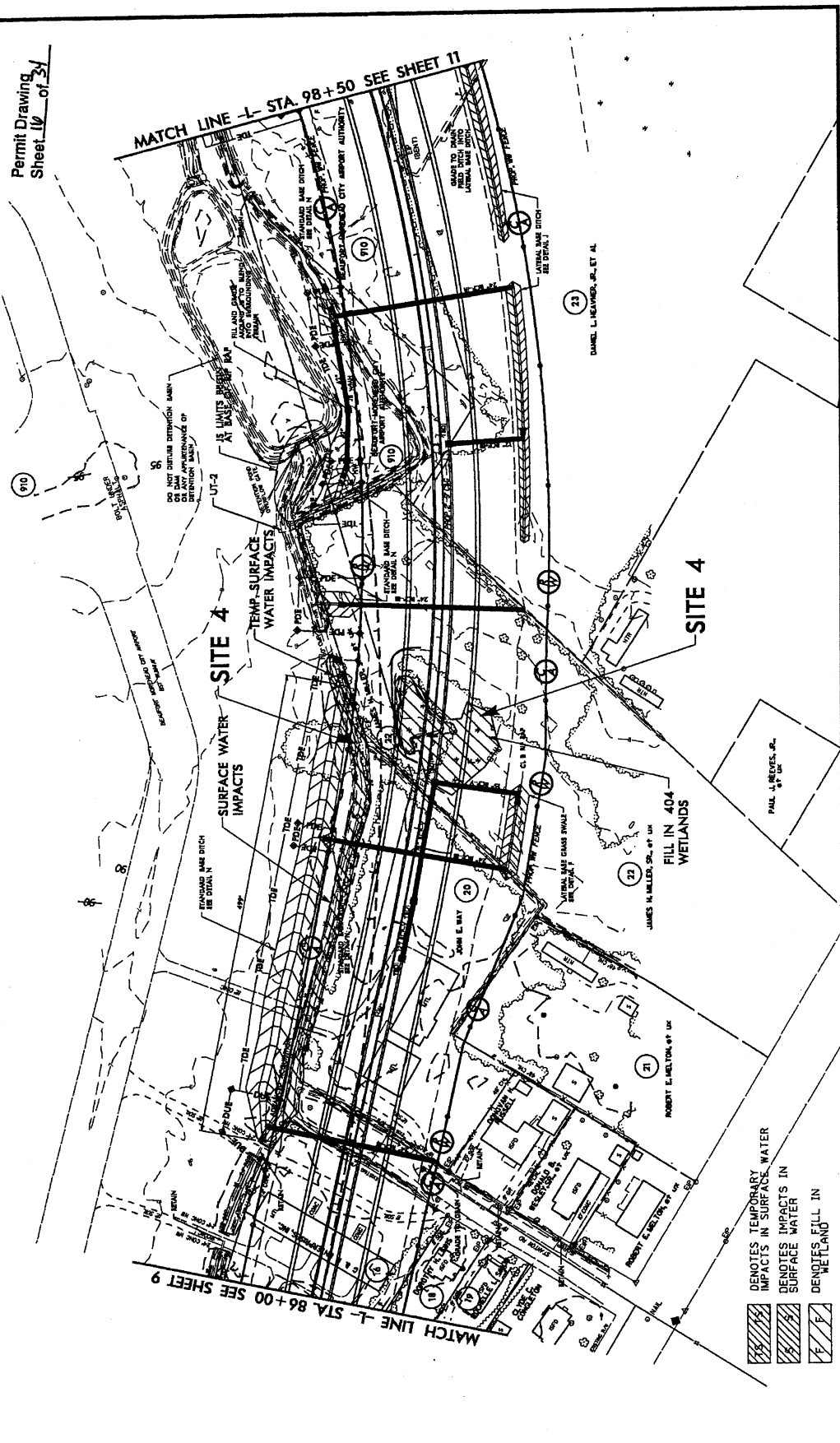


BEAVERHEAD CITY AIRPORT AUTHORITY

8/17/99

REVISIONS

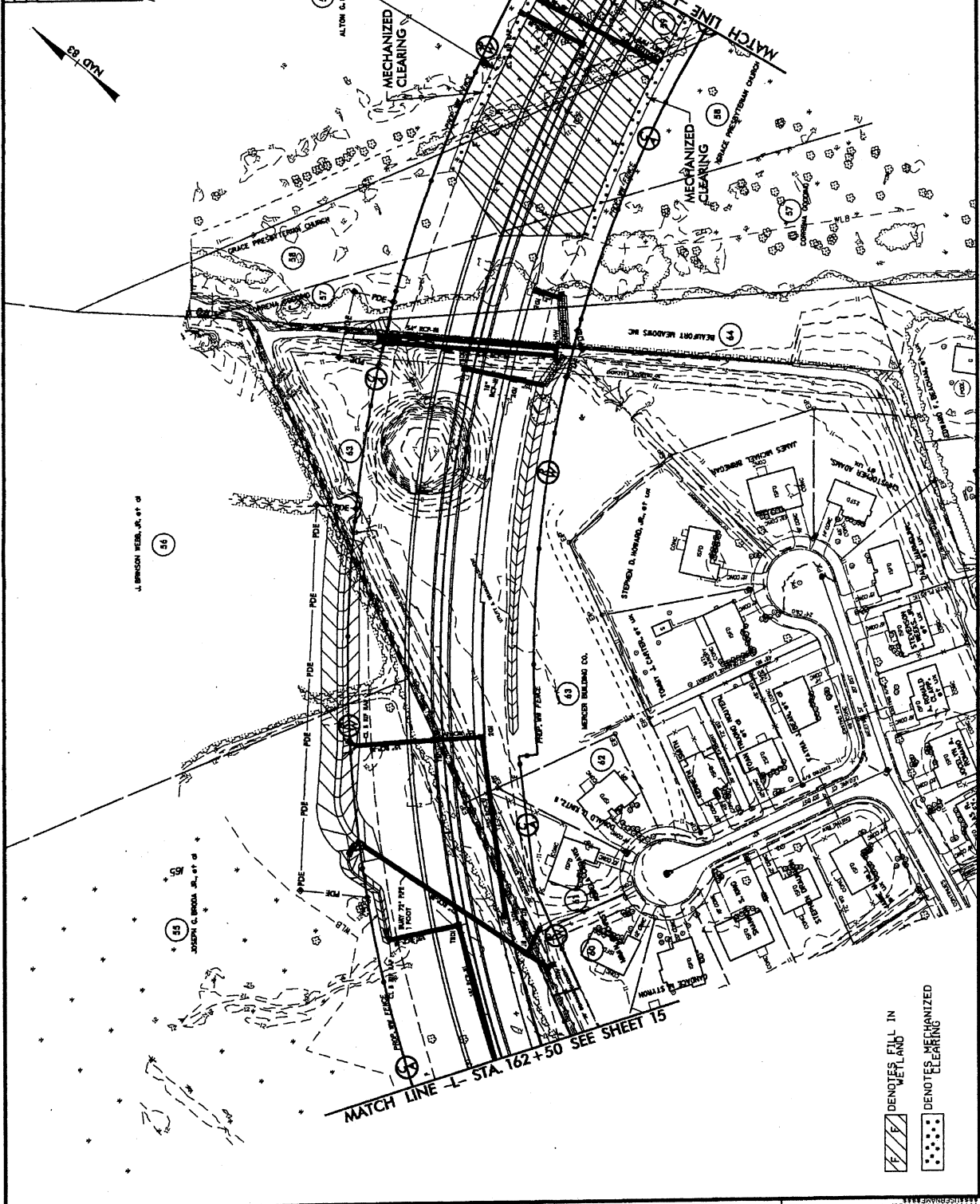
R/W REV. 07/29/10 (KMM) REVISED EXIST/PROP R/W TO MINORICAL OFFSET.
 R/W REV. 04/18/11 (KMM) DELETED POE/REVISED TDC AND ADDED DUE ON PARCEL 39L.





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

PROJECT REFERENCE NO. R-3307	SHEET NO. 16
ROADWAY DESIGN STRUCTURES	HYDRAULICS ENGINEER
PRELIMINARY PLANS NO. NOT FOR THE CONTRACT	

FOR "L" PROFILE SEE SHEET 33
 Permit Drawing
 Sheet 17 of 34



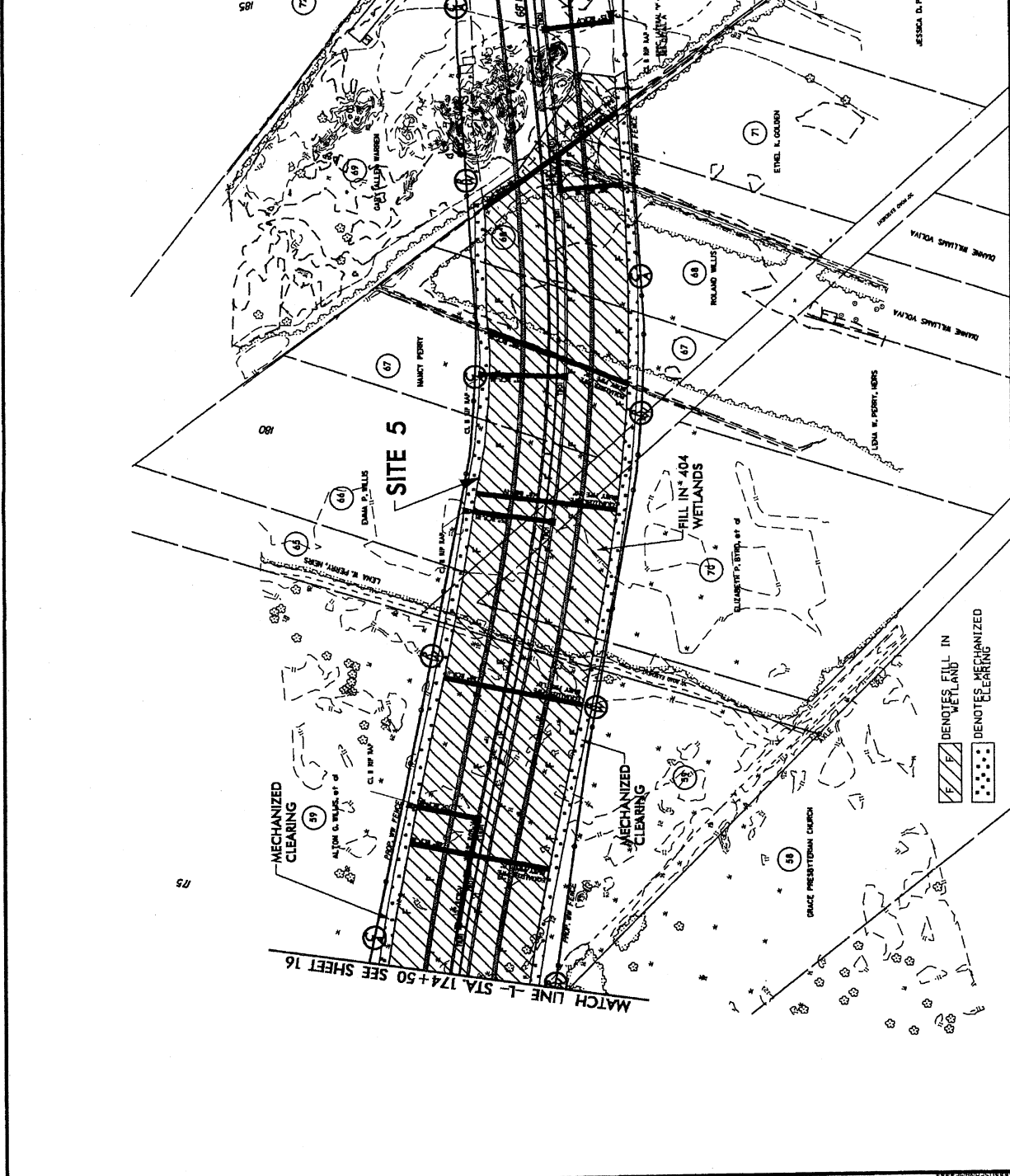
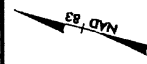
 DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING

REVISIONS
 P/W REV. 07/29/10 (MNR) REVISED EXIST/PROP P/W TO NUMERICAL OFFSET.
 8/17/99

PROJECT NUMBER NO.	7-3307
SHEET NO.	11
DESIGNER	WYOMING ENGINEERS
CHECKER	WYOMING ENGINEERS
DATE	10/14/14
PROJECT NAME	PRELIMINARY PLANS FOR THE STATE OF WYOMING

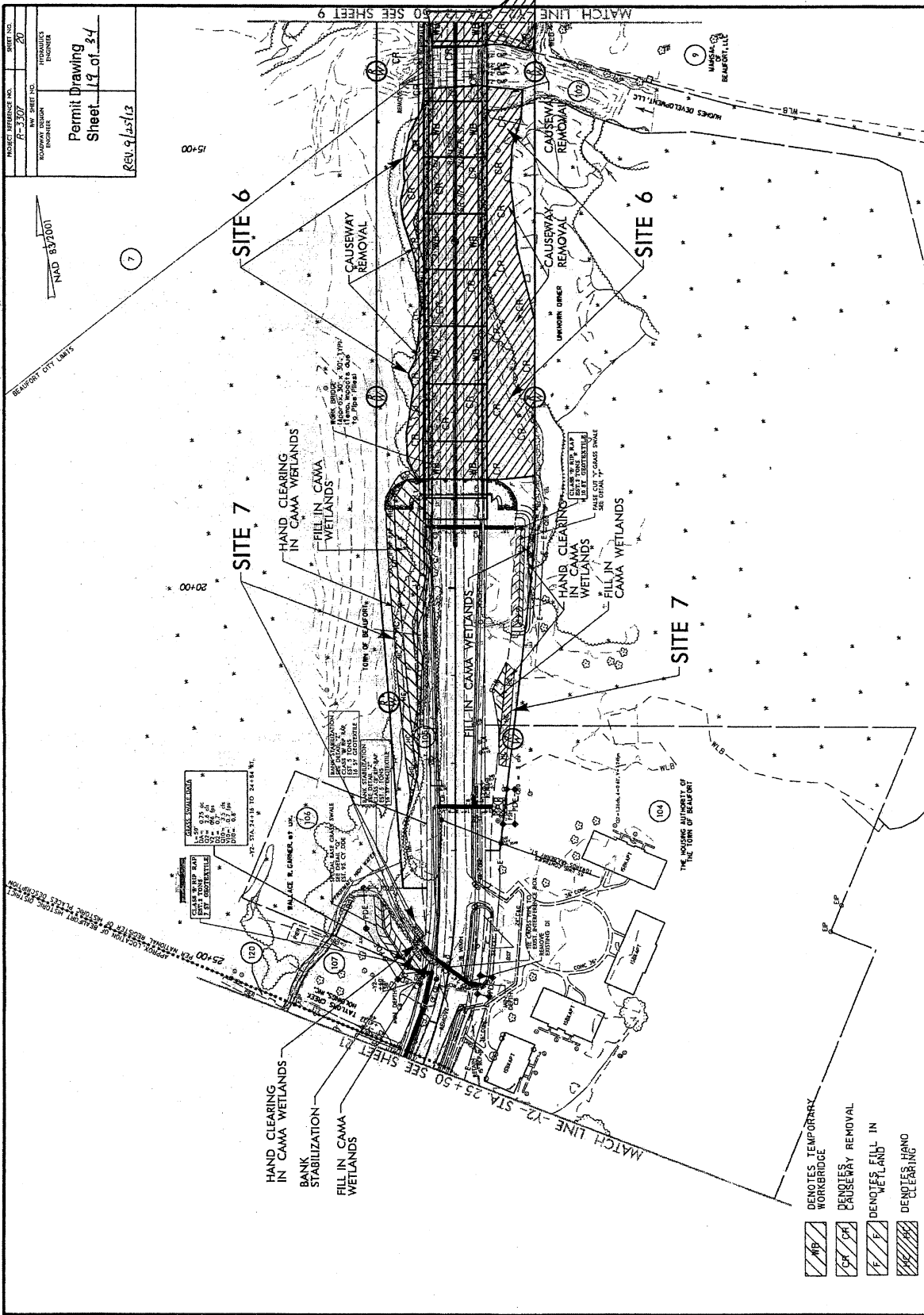
FOR -L- PROFILE SEE SHEET 33

Permit Drawing
Sheet 18 of 34

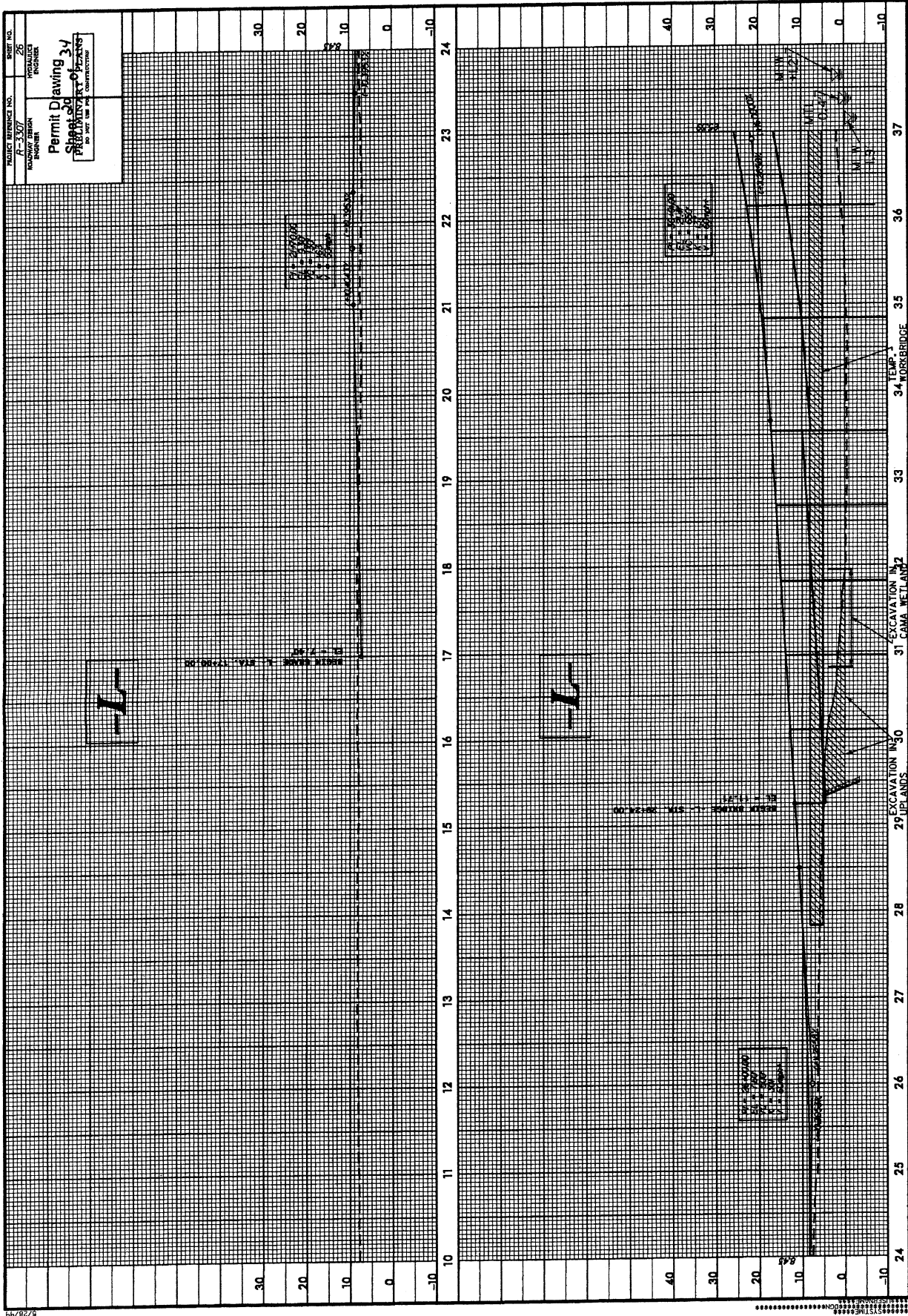


REVISIONS	R/W REV. 07/29/10 (KMM) REVISED PROP R/W TO NUMERICAL OFFSET.
-----------	---

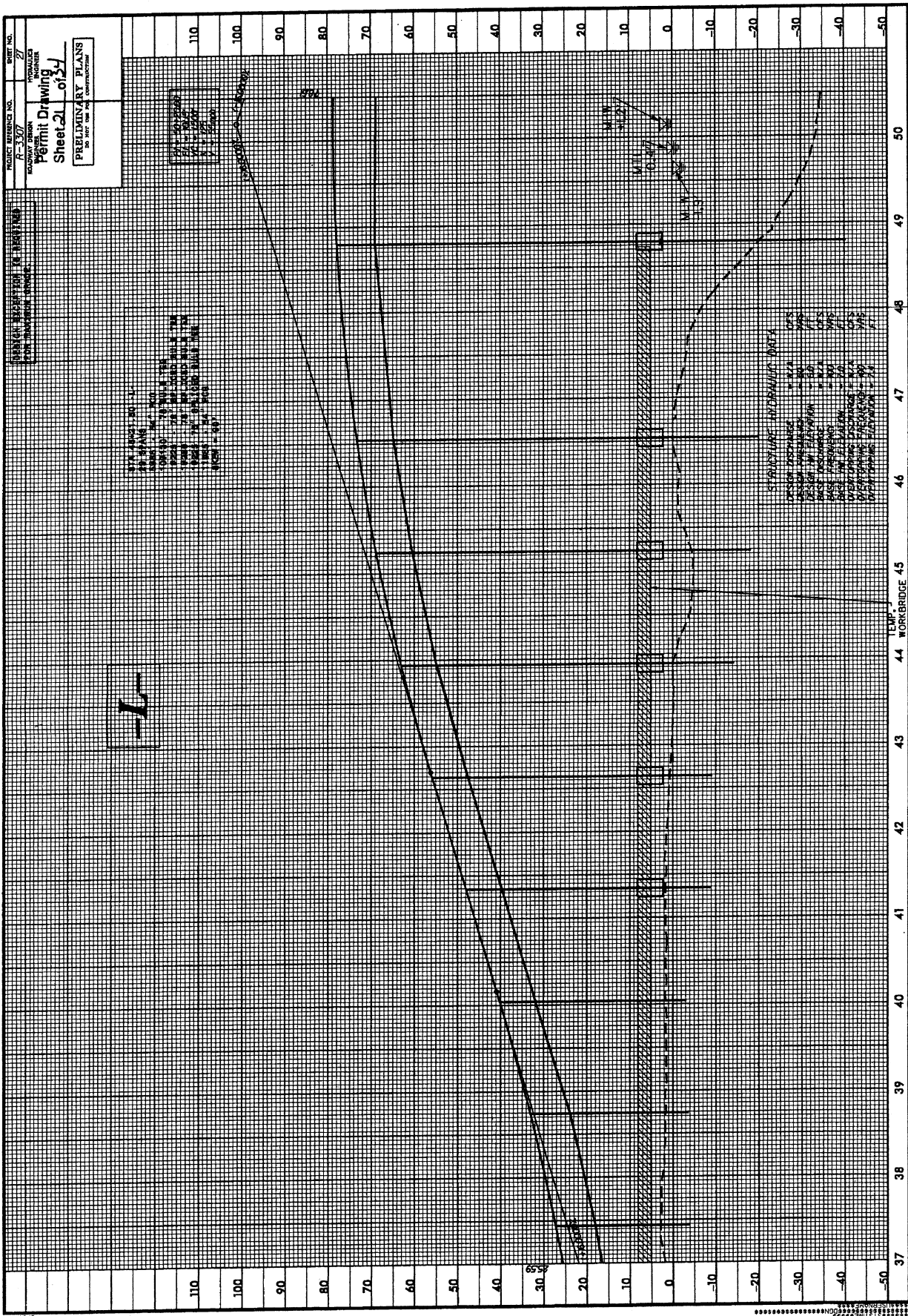
8/17/99

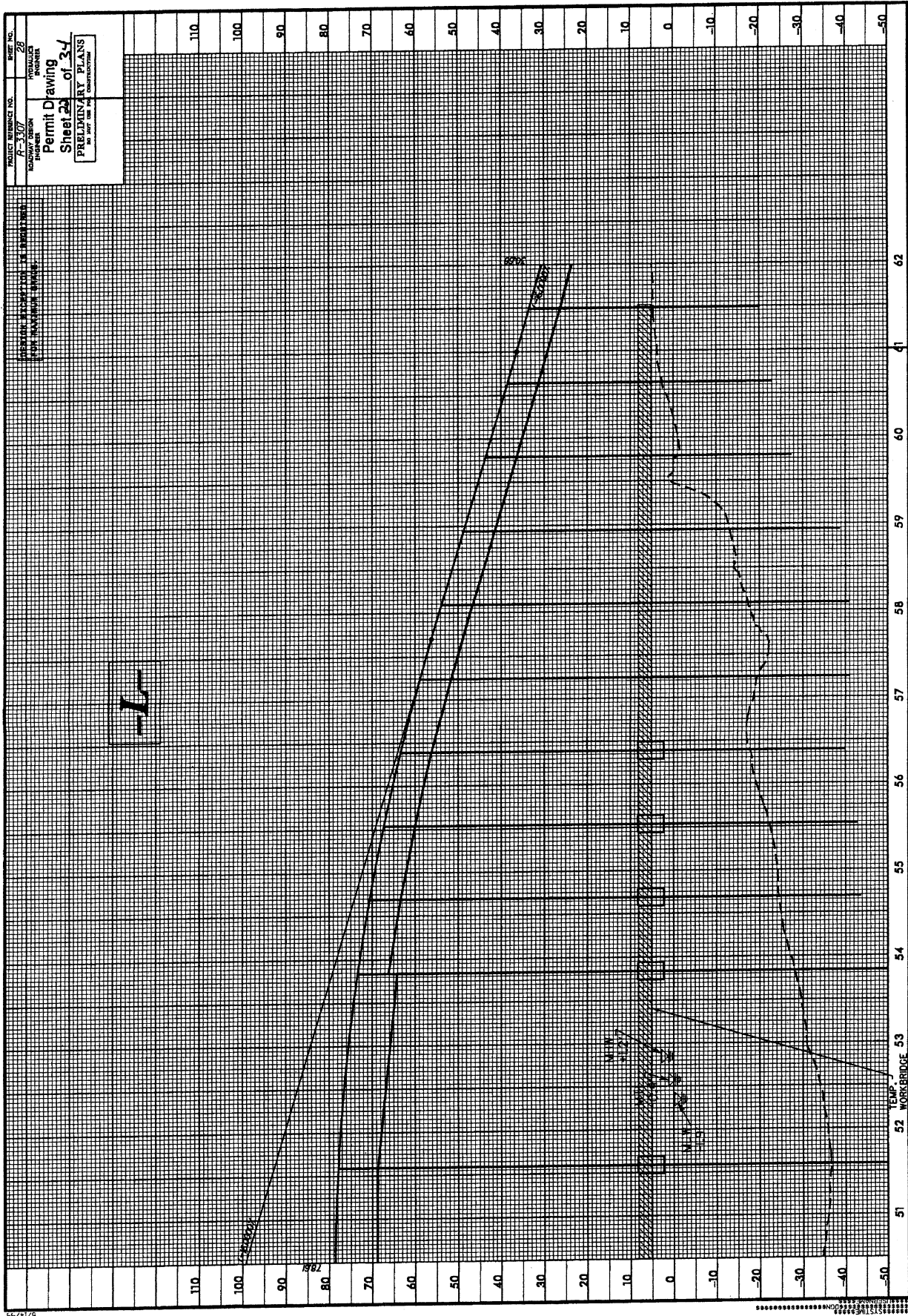


REVISIONS

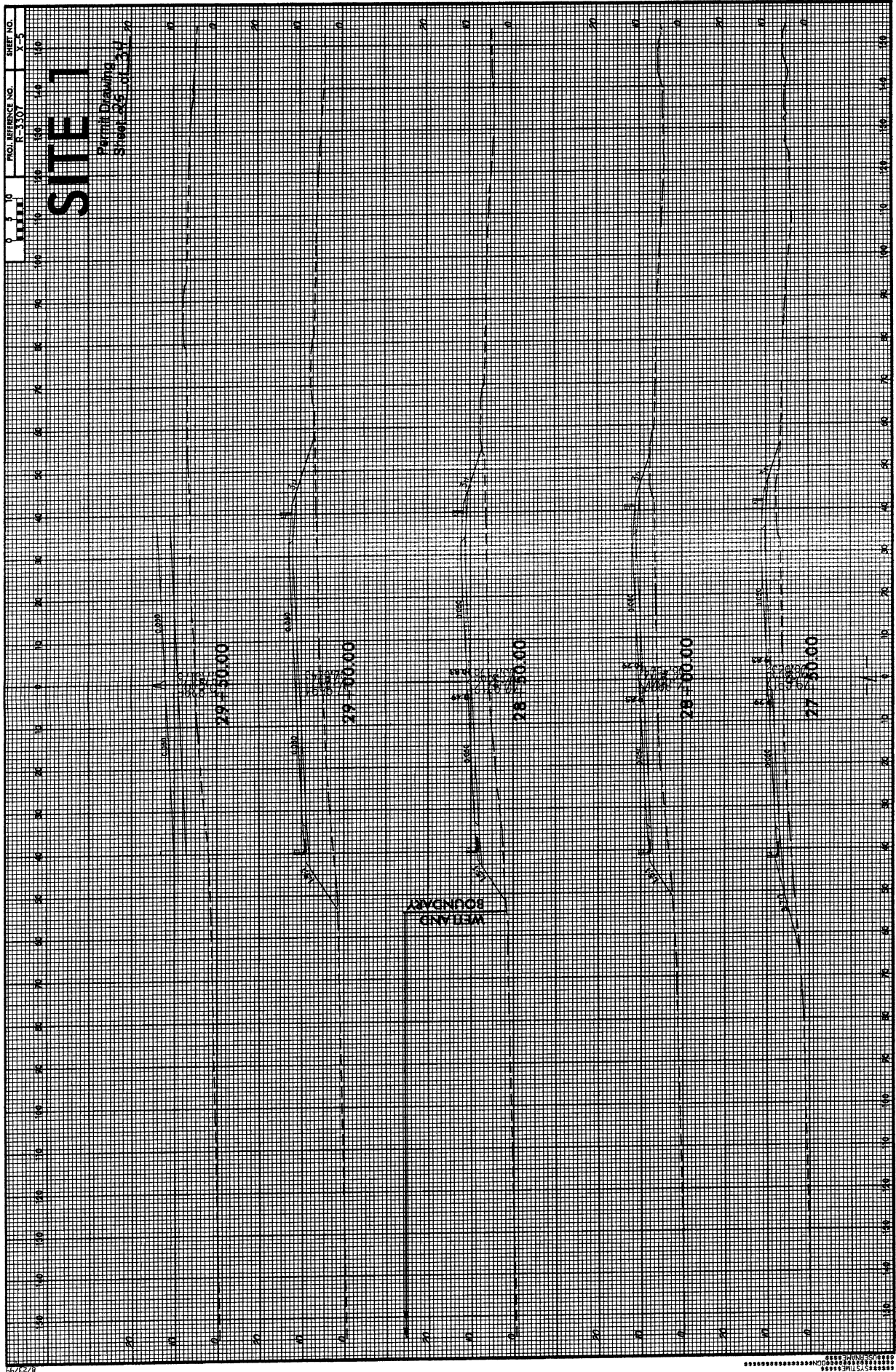


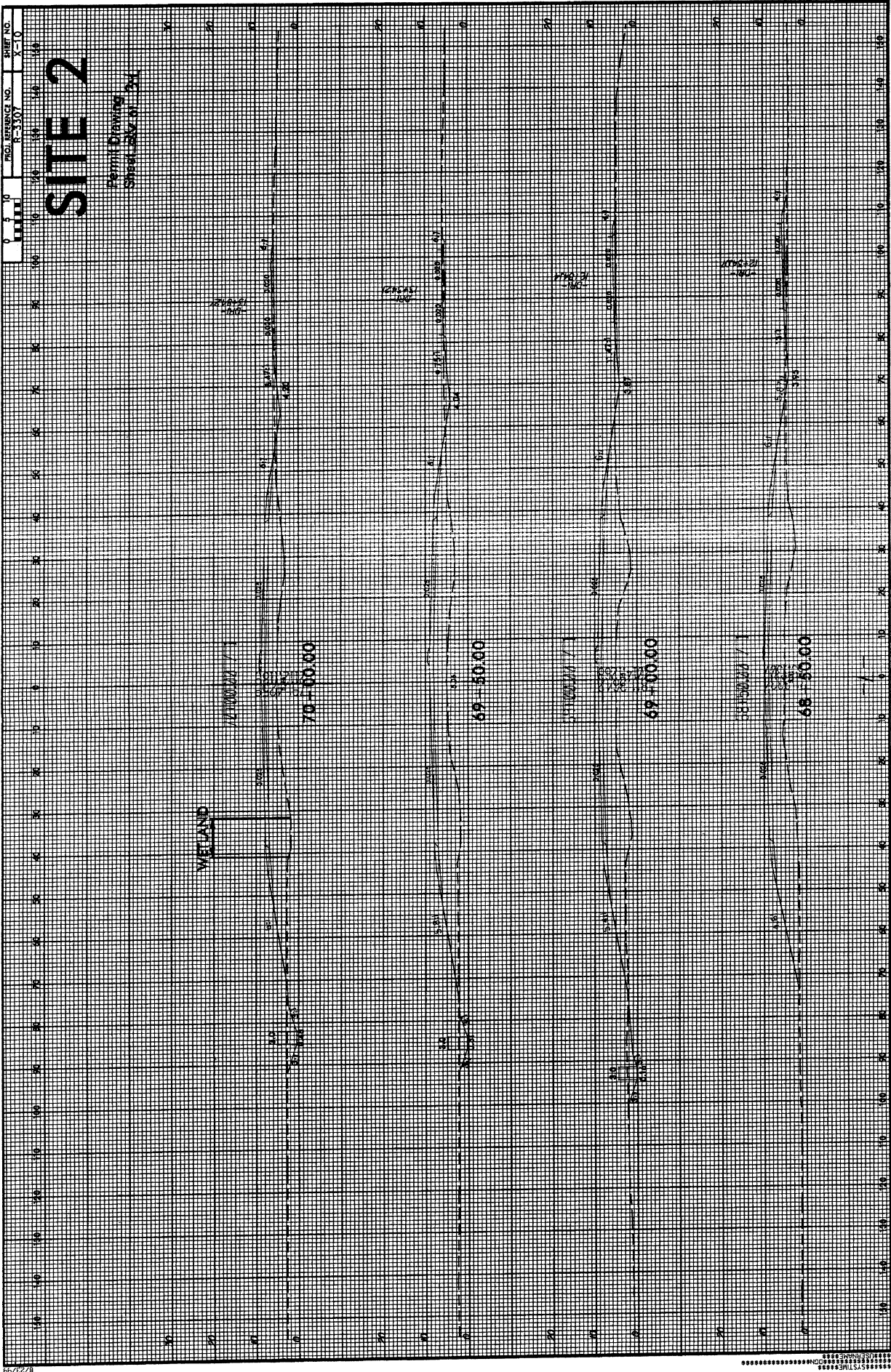
6/7/82/6





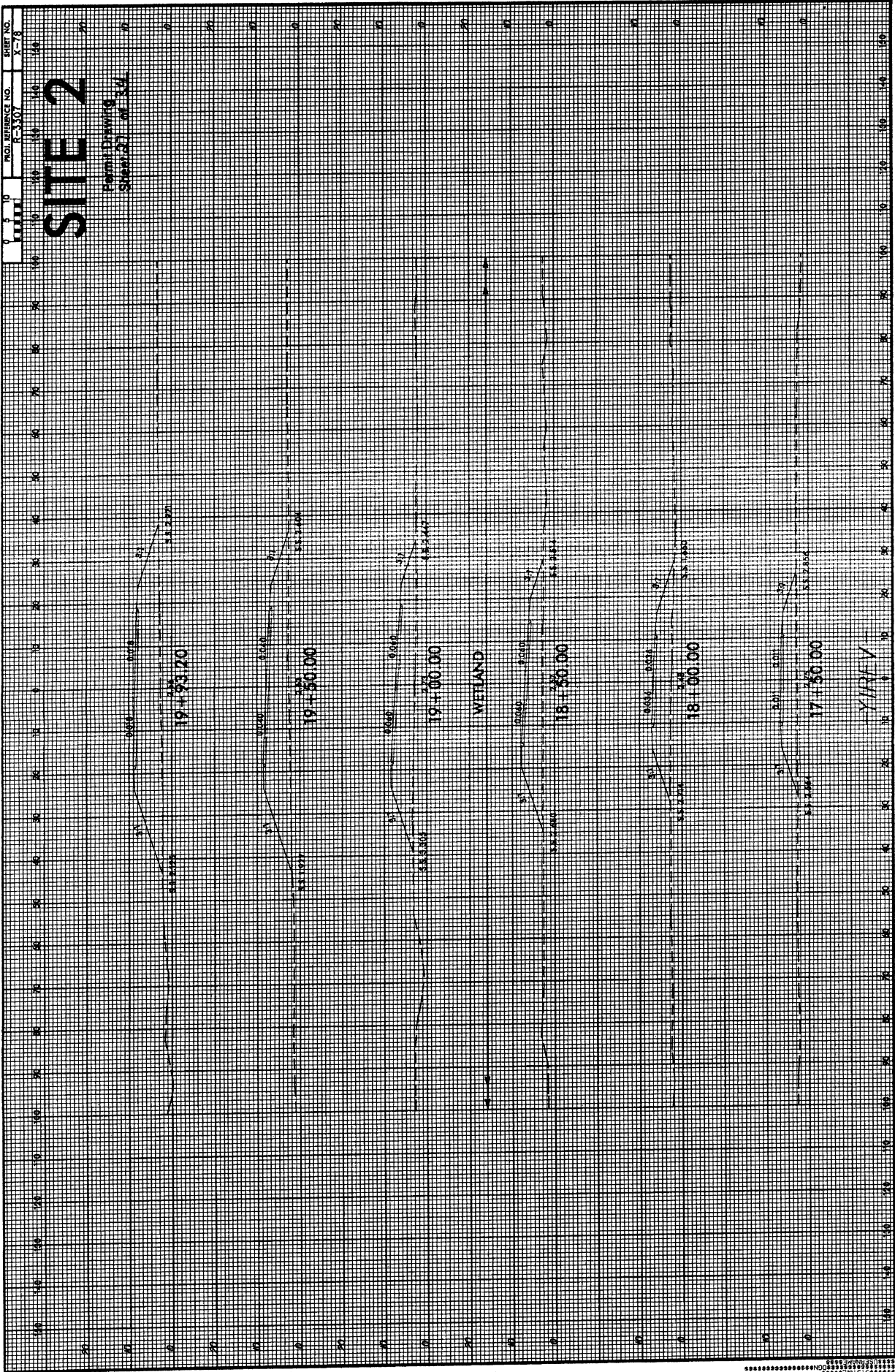
6/17/16





02/27/98

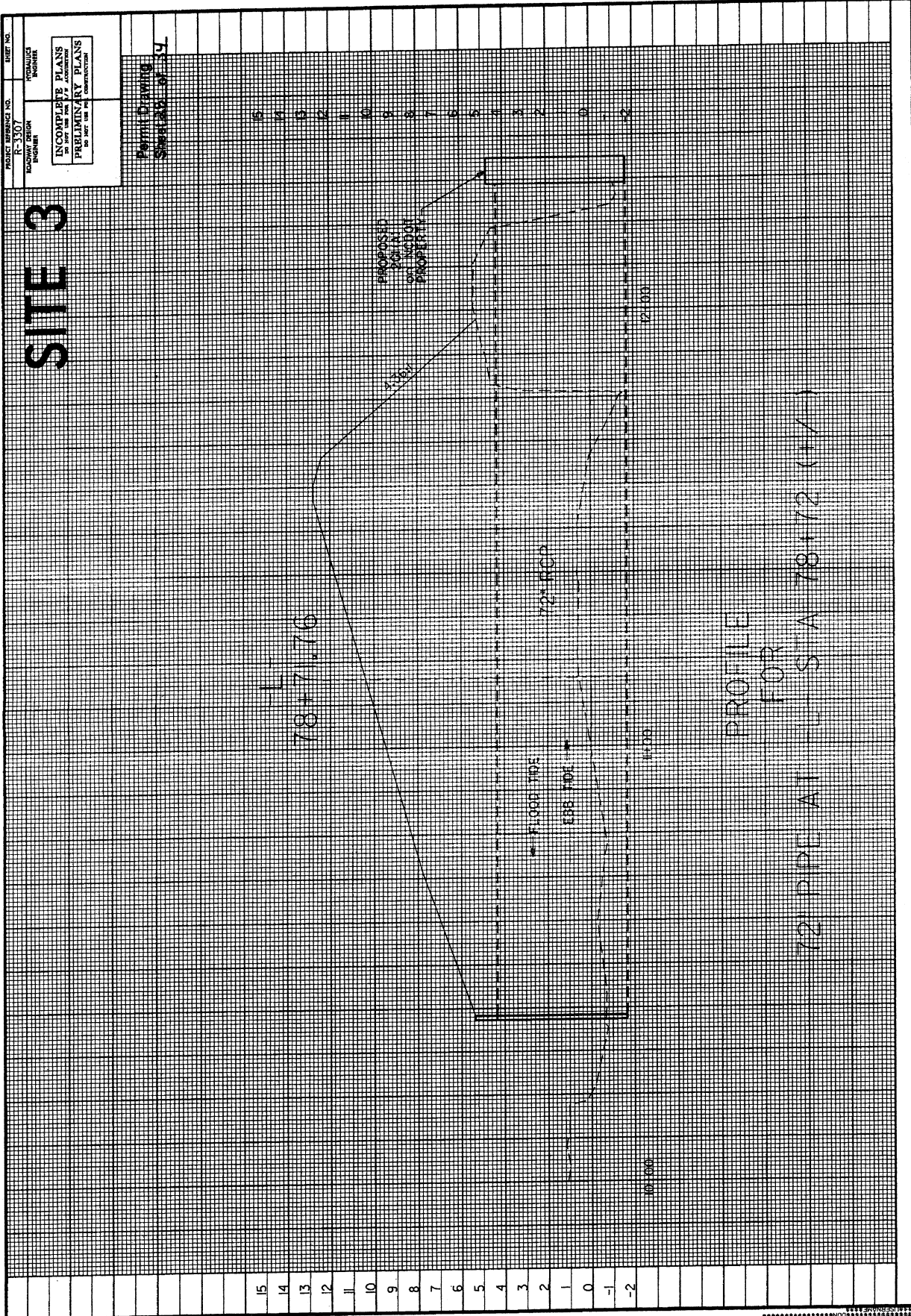
SUNSHINE ENGINEERING
SUNSHINE ENGINEERING
SUNSHINE ENGINEERING



SITE 3

PROJECT REFERENCE NO. R-3307
 HYDRAULIC ENGINEER
 INCOMPLETE PLANS
 DO NOT USE FOR CONSTRUCTION
 PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

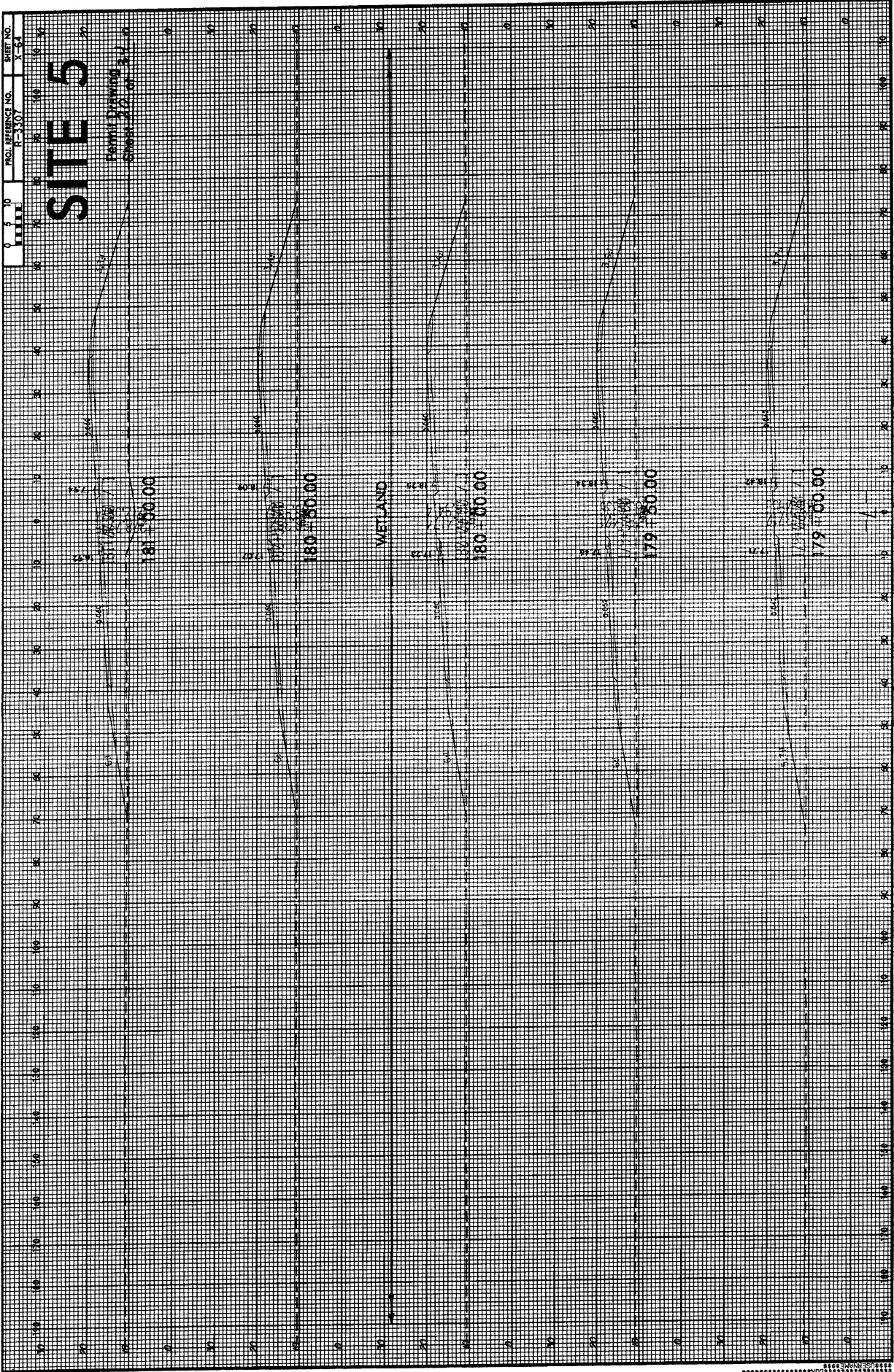
PERMIT DRAWING
 SHEET 3 OF 3



PROFILE FOR
 72" PIPE AT STA 78+72 (117)

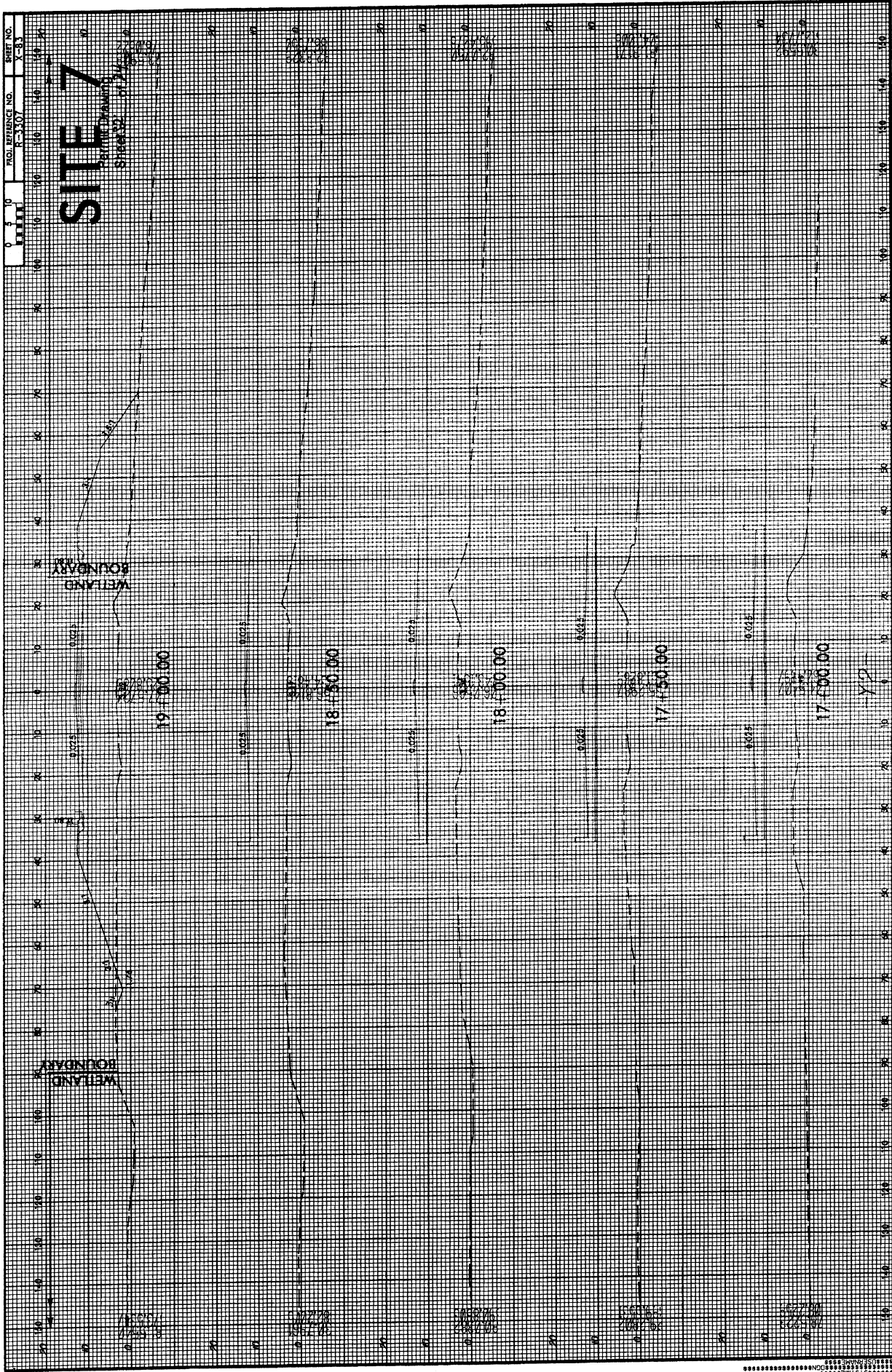
06/11/15

 15
 14
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 -2



5/22/23

*****SUNBELT*****
*****SUNBELT*****
*****SUNBELT*****



PROJECT REFERENCE NO. STREET NO.
R-3307

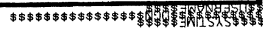
BY SHEET NO. 34
TOTAL SHEETS 34
ENGINEER

Permit Drawing
Sheet 33 of 34

PROPERTY OWNERS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
1	Eudy, Joseph	519 E. Front St. New Bern, NC 28540
4	Conscience Bay LLC	232 W. Beaufort Rd. Beaufort, NC 28516
5	Hinson, Ada L.	P.O. Box 367 Beaufort, NC 28516
9	MAINSAIL OF BEAUFORT, LLC	901-F Paverstone Dr. Raleigh, NC 27615
	Beaufort - Morehead City Airport	Beaufort, NC 28516
8	Capalbo, Judith	101 Campen Rd. Beaufort, NC 28516
10	McCann, John J.	224 Londs End Rd. Morehead City, 28557
57	Gooding, Correna	P.O. Box 8 Beaufort, NC 28516
58	Grace Presbyterian Church	P.O. Box 889 Beaufort, NC 28516
59	Willis, Edward C.	1670 Wimbledon Dr. Greenville, NC 27858
65	Perry, Lena W. heirs	P.O. Box 60 Davis, NC 28524
70	Byrd, Elizabeth	1909 Indianwood Ct. Raleigh, NC 27604
66	Willis, Emma Perry	5201 Bentgrass Dr. Raleigh, NC 27610
67	Piner, Nancy Perry	P.O. Box 60, Beaufort, NC 28516

PARCEL NO.	NAMES	ADDRESSES
68	Willis, Roland D.	579 Cape Lookout Dr.arkers Island, NC 28531
69	Warren, Gary Allen	158 Pigott Rd. Gloucester, NC 28528
71	Golden, Ethel K.	151 Tanners Creek Rd. Beaufort, NC 28516
106	Garner, Wallace W.	134 Pivers Rd. Beaufort, NC 28516
104	The Housing Authority of the Town of Beaufort	716 Mulberry St. Beaufort, NC 28516



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 (ec)	Excavation in Wetlands (ec)	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 28+47 LT -L- STA. 28+99 TO 63+44	Roadway Fill Bridge		<0.01 0.02	<0.01 0.16*	0.07 0.07	0.16*		0.02	0.03	0.06					
2	-L- STA. 62+82 TO 72+30 & -Y1REV. STA. 16+74 TO 20+64	48" RCP & Roadway Fill Bank Stabilization		0.24 1.38				0.21	0.06	0.02	0.01	139	9			
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+82	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			0.03	<0.01	<0.01					
7	-Y2- STA. 18+66 TO 24+34	Roadway Fill Bank Stabilization		0.20					0.12			8				
TOTALS:			1.46	0.50	5.36	0.07	0.16	0.74	0.23	0.25	0.09	851	41	0.00		

* 0.16 ACRES OF EXCAVATION IN CAMA WETLANDS. REQUIRED TO PROVIDE ACCESS FOR BRIDGE CONSTRUCTION AND MAINTENANCE / INSPECTION

** 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

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
 Perm. Fill in 404 wetlands: <0.01 Ac
 Perm. Fill in Surface Waters: 0.03 Ac
 Temp. Fill in wetlands: 0.07 Ac
 Temp. Fill in Surface Waters: 0.08 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

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 (7/27/2011)

Permit Drawing
 Sheet 34 of 34
 REVISED 1/24/12

TILE NO. R-3307
SHEET NO. UO-1

Utility Permit Drawing
Sheet 1 of 10

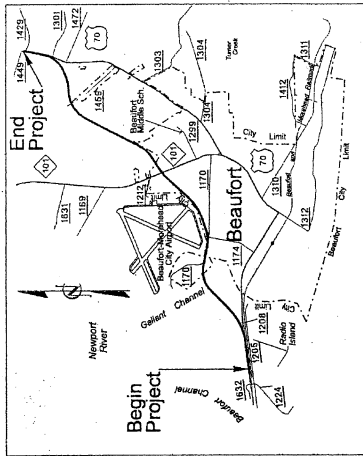
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NEU PERMIT DRAWINGS
CARTERET COUNTY

LOCATION: US 70 FROM EXISTING FOUR LANES AT
RADIO ISLAND TO US 70 NORTH OF
SR 1429 (OLGA ROAD)

TYPE OF WORK: RELOCATE UTILITIES LINES

STA. 207+95.09 -L- END TIP PROJECT R-3307

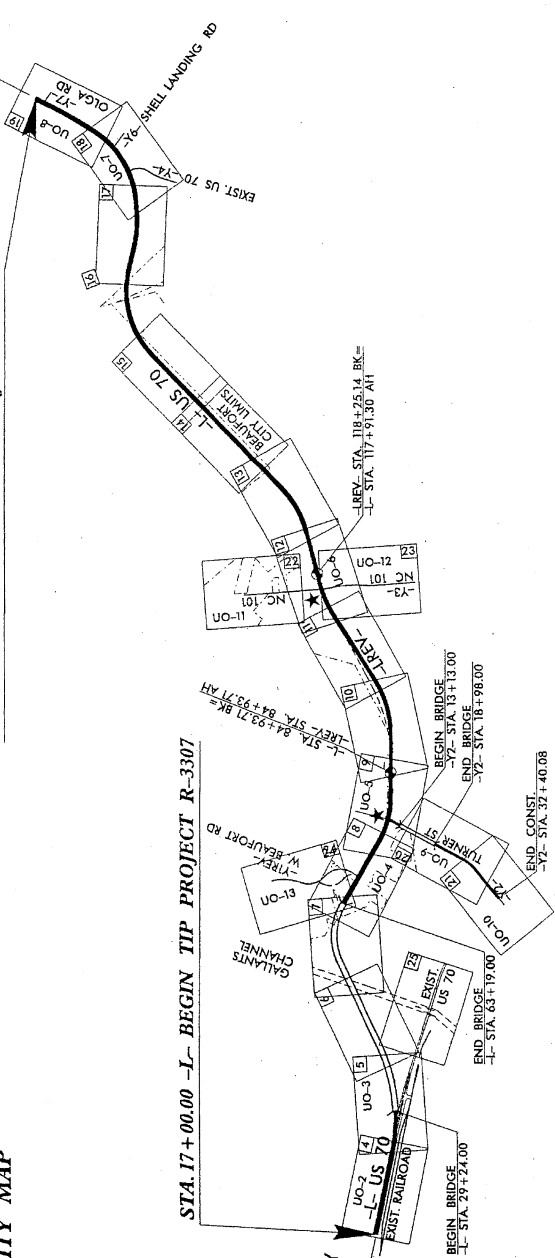


VICINITY MAP



TO BETTIE

TO MOREHEAD CITY



STA. 17+00.00 -L- BEGIN TIP PROJECT R-3307

PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
300 S.W. SERVICE CENTER
RALEIGH, NC 27605-2900
FAX: (919) 286-4740

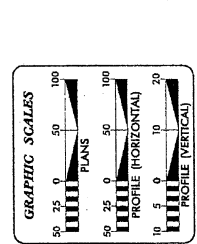
Owner: Washington, P.E. UTILITIES SECTION ENGINEER
Gary Braggins, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Kathy Kuntz UTILITIES PROJECT DESIGNER

UTILITY OWNERS ON PROJECT

- (1) CENTURY LINK
- (2) PROGRESS ENERGY
- (3) TIME WARNER CABLES

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-13	UTILITY BY OTHERS PLAN SHEETS



TIP PROJECT: R-3307

PROJECT REFERENCE NO. R-3307 SHEET NO. UO-6

UTILITIES BY OTHERS

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

Utility Permit Drawing
Sheet 6 of 16
Revised
5/11/12

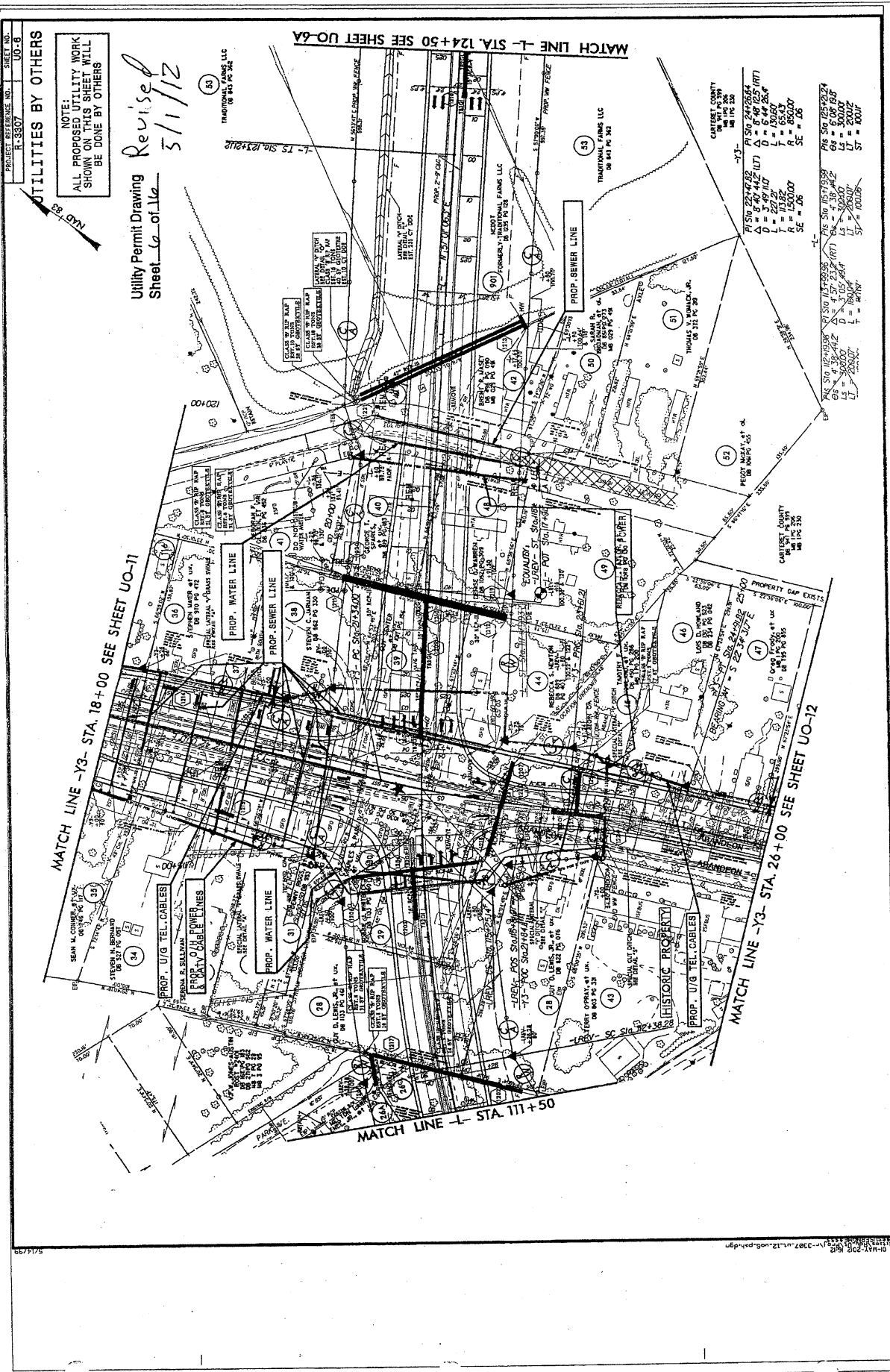


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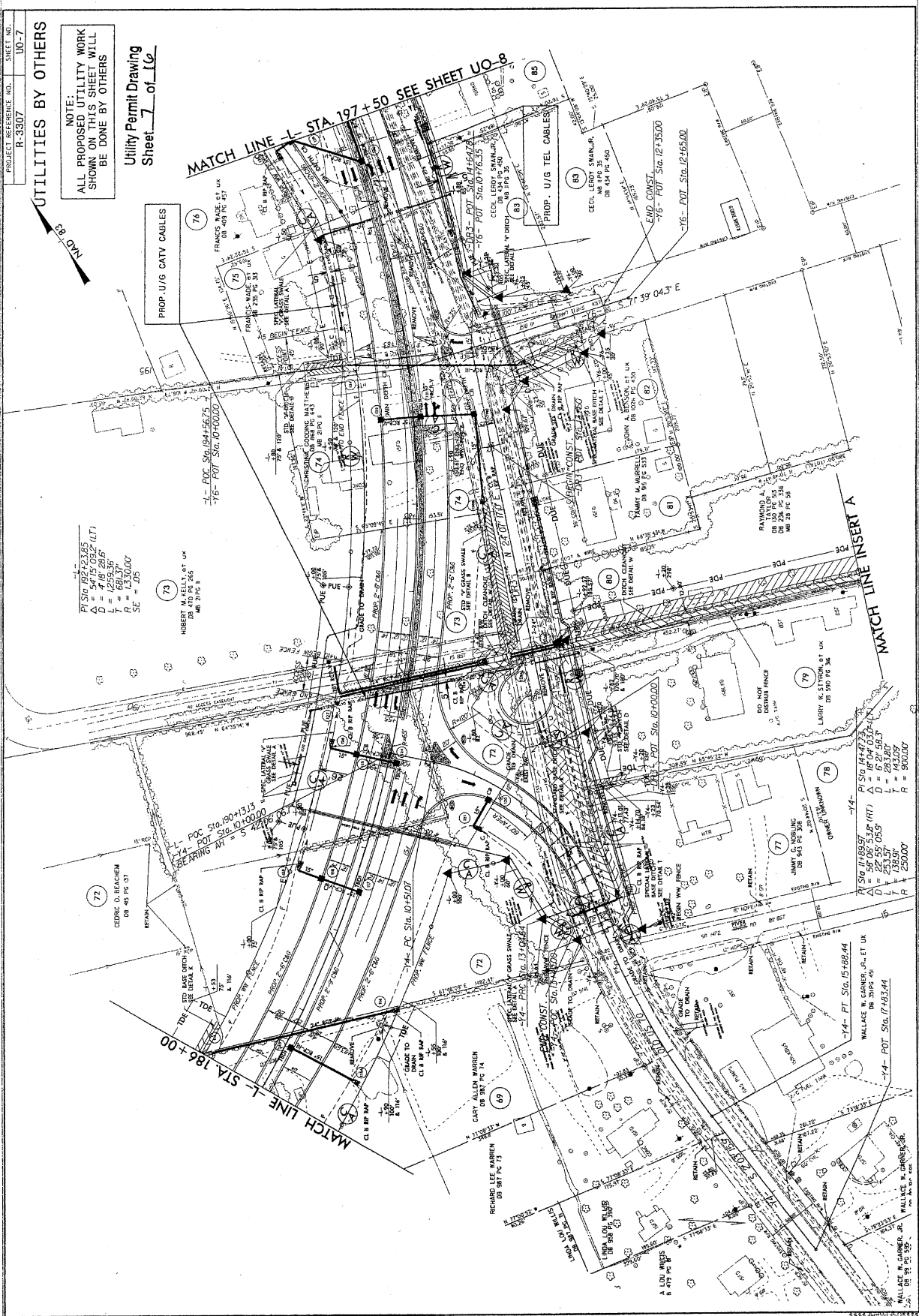
PI 50 224+42.02	PI 50 157+93.98	PI 50 123+23.24
Q = 5' 49" 11/2	Q = 4' 57" 23/4 (RT)	Q = 6' 06" 9/8
L = 130.00	L = 130.00	L = 200.00
R = 15300.00	R = 15300.00	R = 10000.00
SE = 26'	SE = 26'	SE = 26'

ADDITIONAL DATA:

PI 50 112+03.98	PI 50 112+03.98	PI 50 112+03.98
Q = 3' 30" 1/2	Q = 3' 30" 1/2	Q = 3' 30" 1/2
L = 130.00	L = 130.00	L = 130.00
R = 15300.00	R = 15300.00	R = 15300.00
SE = 26'	SE = 26'	SE = 26'

1/14/12

01-MAY-2006 09:25
\\GIS\GIS\PROJECTS\2006\11-12\add-on\add-on.dwg



PROJECT REFERENCE NO. R-3307
 SHEET NO. UO-7

UTILITIES BY OTHERS

NOTE:
 ALL PROPOSED UTILITY WORK
 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS

Utility Permit Drawing
 Sheet 7 of 10

PT STA 182+23.25
 Δ = 54°15'03.2" (LT)
 D = 12.05' 28.5"
 T = 681.31'
 P = 1330.00'
 SC = 205

ROBERT M. LEE ET UX
 DB 470 PC 265
 MB 316.1'

CECILE D. BEACHEM
 DB 45 PC 137

PT STA 180+131.5
 Δ = 10°04'03.1" (RT)
 D = 25.53' 6.5"
 T = 263.80'
 L = 136.91'
 P = 250.00'

PT STA 144+71.5
 Δ = 16°04'03.1" (RT)
 D = 263.80'
 T = 136.91'
 P = 250.00'

PT STA 15+68.44
 Δ = 30°06'52.9" (RT)
 D = 25.53' 6.5"
 T = 263.80'
 L = 136.91'
 P = 250.00'

PT STA 17+43.44
 Δ = 30°06'52.9" (RT)
 D = 25.53' 6.5"
 T = 263.80'
 L = 136.91'
 P = 250.00'

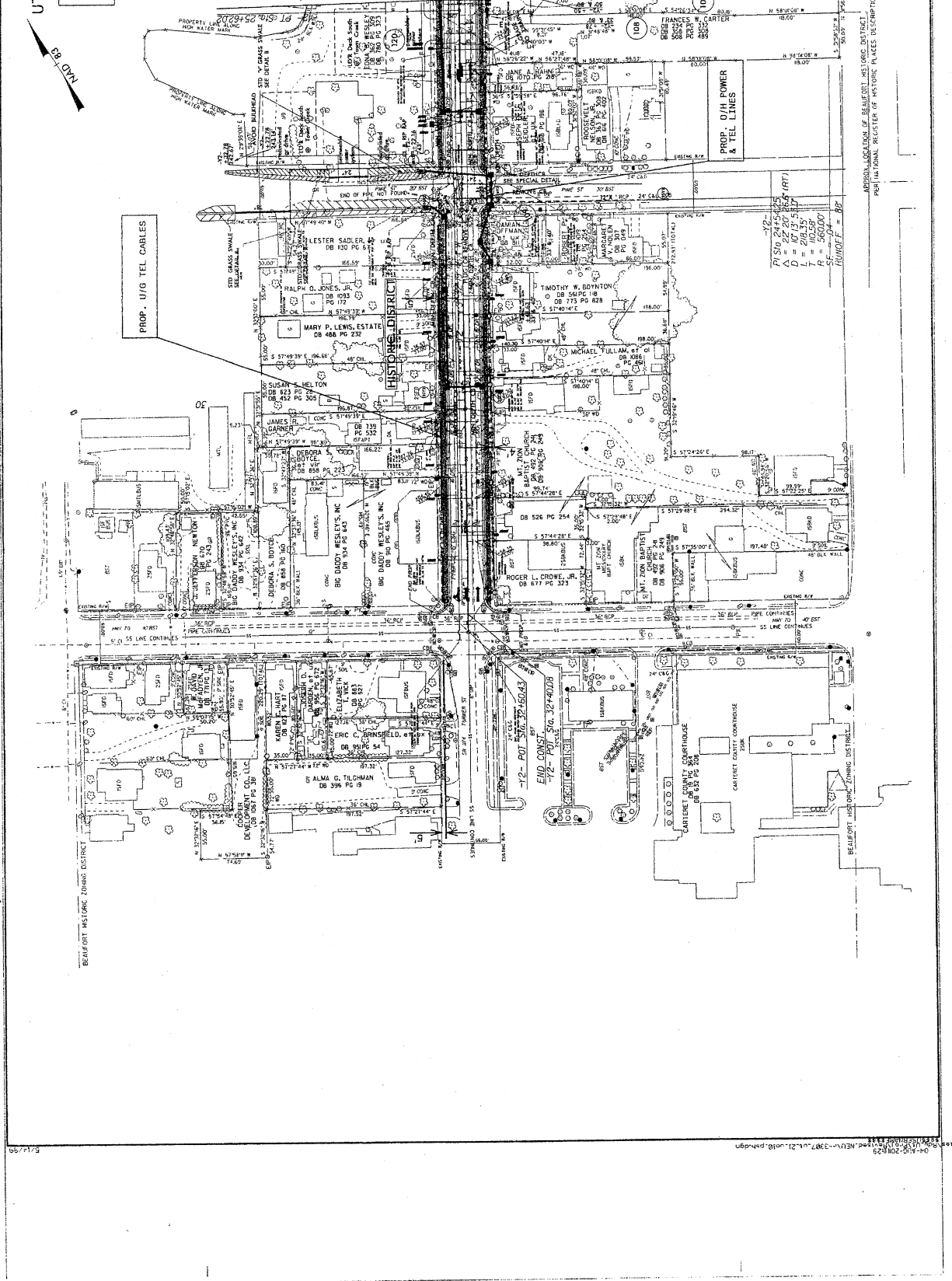
PROJECT REFERENCE NO. R-3307 SHEET NO. UO-10

UTILITIES BY OTHERS

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

Utility Permit Drawing Sheet 10 of 10

MATCH LINE -Y2- STA. 25+50 SEE SHEET UO-9



$P/S = \frac{242}{242} = 1.00$
 $D = 16' 13.53"$
 $L = 28.35'$
 $R = 250.00'$
 $ST = 04'$
 $HORIZONTAL = 89'$

APPROVAL LOCATION OF BEAUFORT HISTORIC DISTRICT
 PER NATIONAL REGISTER OF HISTORIC PLACES (NPS)

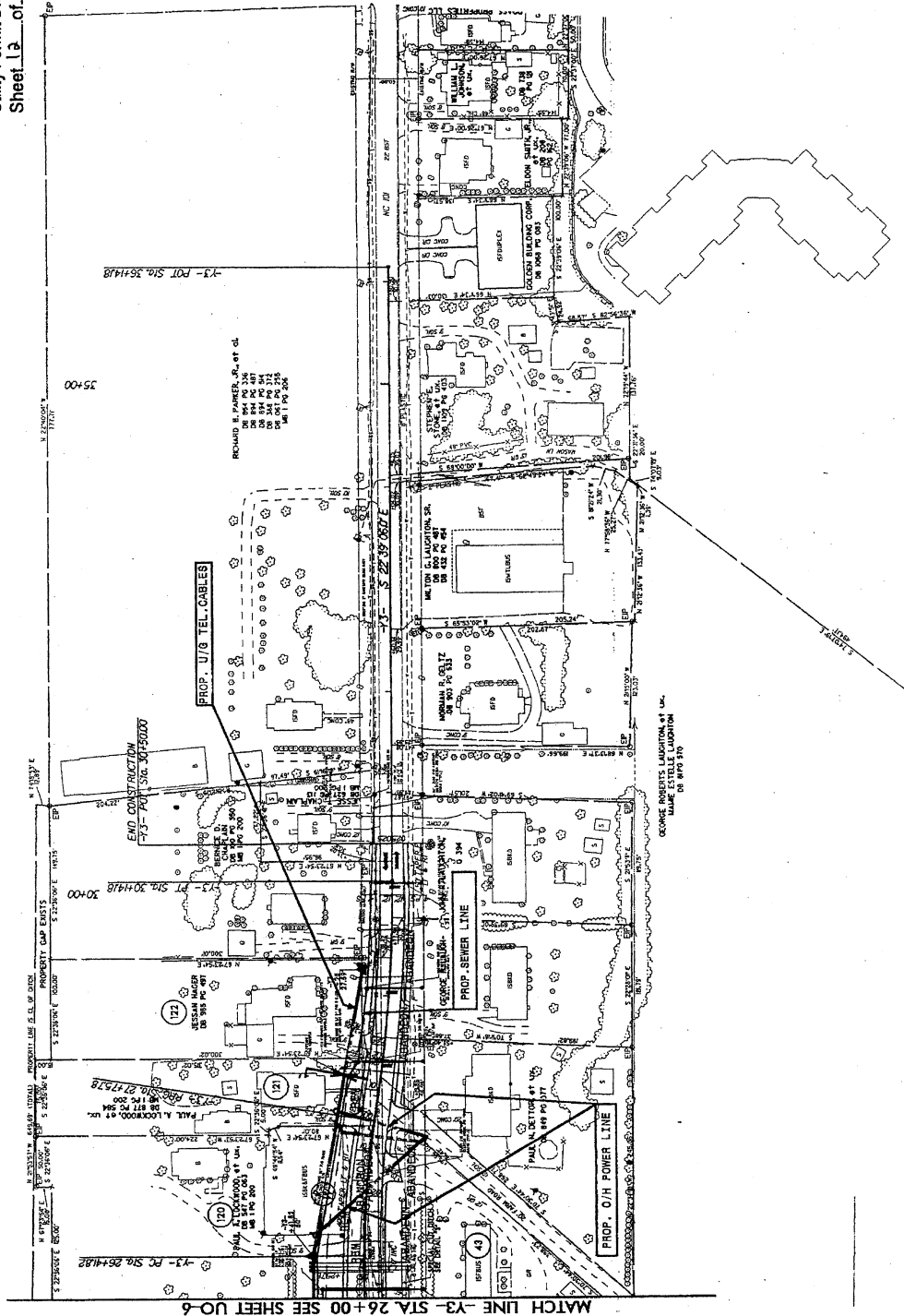
PROJECT REFERENCE NO. R-3807
 SHEET NO. UO-12

UTILITIES BY OTHERS

NOTE:
 ALL PROPOSED UTILITY WORK
 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS

Utility Permit Drawing
 Sheet 12 of 12

-13-
 P/Sig 274954 P/Sig 284823
 Δ = 570' 47.5" (RT) Δ = 506' 22.2" (LT)
 D = 6' 48" 26.4" D = 7' 48" 11"
 T = 7845' T = 7845'
 R = 85000' R = 150000'
 SE = 26 SE = 26



MATCH LINE - Y3 - STA 26+00 SEE SHEET UO-6

-Y3 - POT Sta. 35+41.8

PROP. U/G TEL. CABLES

END CONSTRUCTION
 -Y3 - POT Sta. 30+20.00

PROP. 0.1H POWER LINE

PROP. SEWER LINE

PROPOSED GAS EXISTS

PROPOSED WATER EXISTS

PROPOSED SANITARY EXISTS

PROPOSED STORM EXISTS

PROPOSED FLOOD EXISTS

PROPOSED EARTH EXISTS

PROPOSED ROCK EXISTS

PROPOSED VEGETATION EXISTS

PROPOSED UTILITIES EXISTS

PROPOSED OBSTRUCTIONS EXISTS

PROPOSED EARTHWORK EXISTS

PROPOSED UTILITIES EXISTS

55/7175

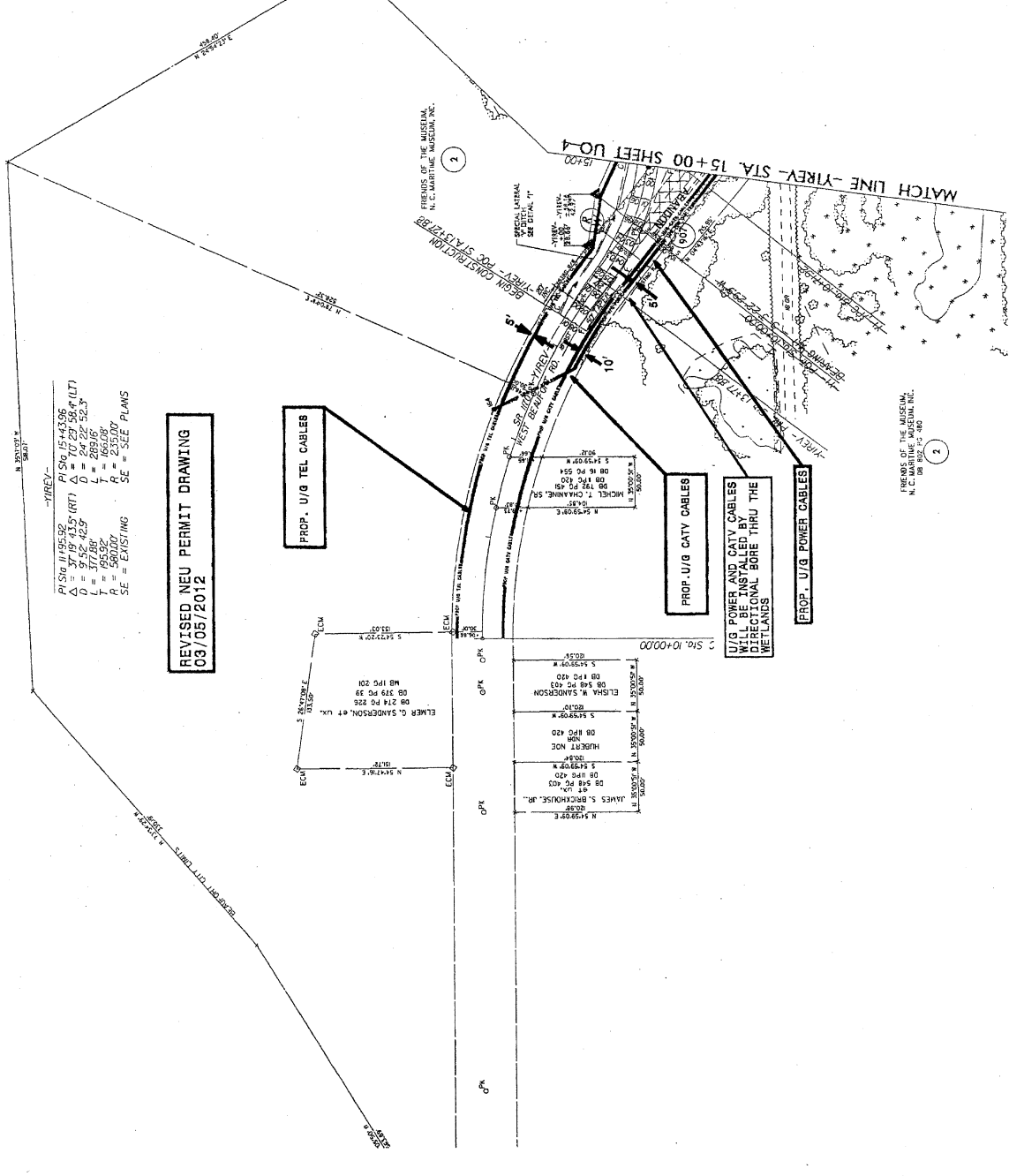
07-MAY-2012 10:22:23 AM R-3807-UO-12-1212.psd.dgn

PROJECT REFERENCE NO. R-3307
SHEET NO. UO-13

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

Utility Permit Drawing:
Sheet 13 of 16



YIREY -
P1 Sta. 10+00.00
Q = 37.19' 23.55' (RT)
L = 5.52' 42.55'
I = 377.80'
R = 190.00'
SE = EXISTING
SE = SEE PLANS

REVISED NEU PERMIT DRAWING
03/05/2012

PROP. U/G TEL CABLES

PROP. U/G CATV CABLES

U/G POWER AND CATV CABLES
WILL BE INSTALLED BY
DIRECTIONAL BORE THRU THE
WETLANDS

PROP. U/G POWER CABLES

FRIENDS OF THE MUSEUM,
N.C. MARITIME MUSEUM, INC.
1000 YIREY ST.
WETLANDS

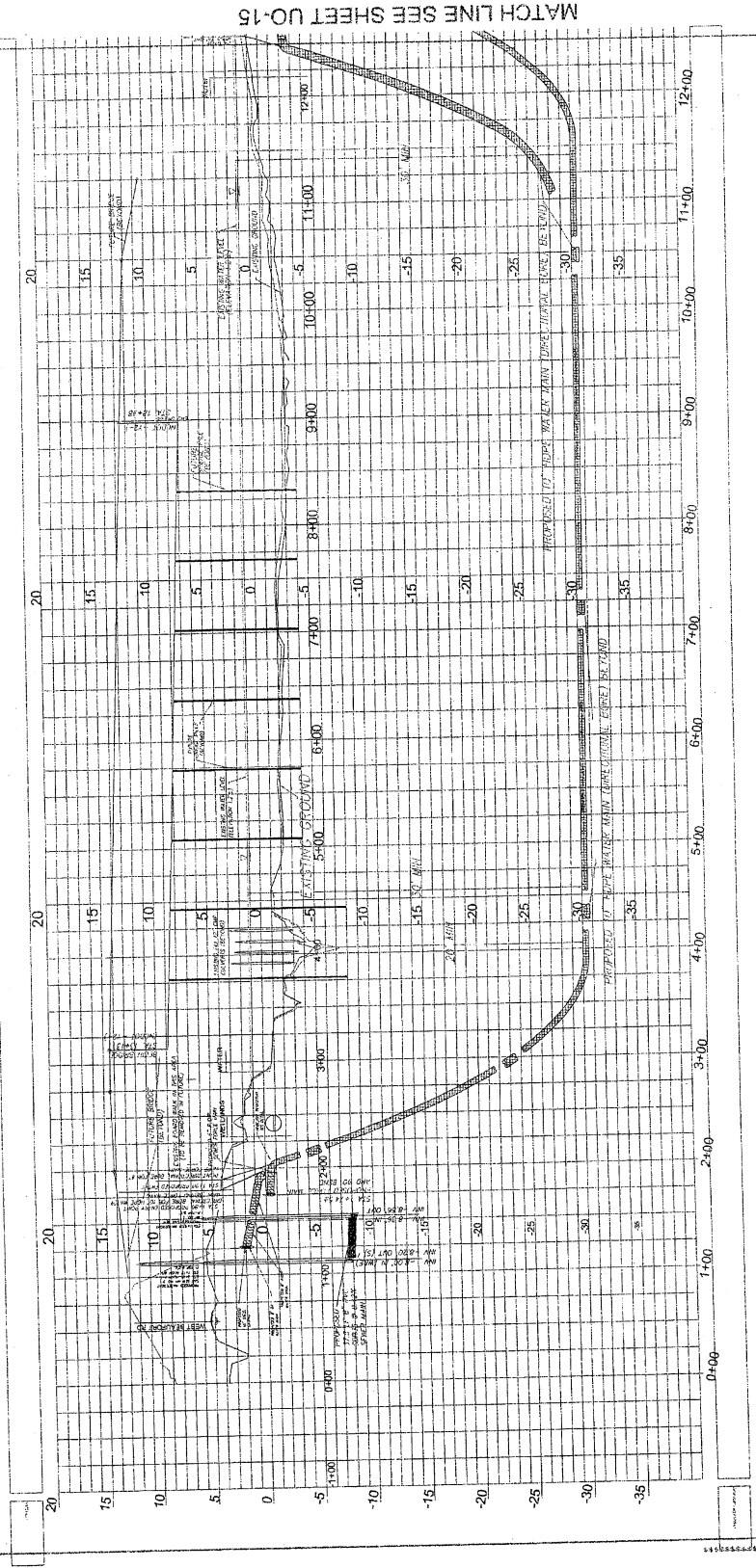
PROJECT REFERENCE NO. E-3366 SHEET NO. 6074

UTILITIES BY OTHERS

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

Utility Permit Drawing Sheet 14 of 16

PROP. 10" HDPE WATER MAIN 7' 6" SEWER LINE PROFILES



DATE PLOTTED: 1/14/14

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)							
A1	sta. 10+00 to 24+00 L-sheet UO-2	O/H Power Line					0.62												
A2	Sta.24+00 to 25+09 L-sheet UO-3	O/H Power Line					0.07												
A3	Sta.25+87 to 30+43 L-sheet UO-3	O/H Power Line					0.28												
TOTALS:			0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

All proposed underground utilities will be installed by trenchless installation thru the wetlands.

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CARTERET COUNTY
 TIP PROJECT (R-3307)