

AGENDA
CRAVEN COUNTY BOARD OF COMMISSIONERS
REGULAR SESSION
MONDAY, JULY 16 2012
8:30 A.M.

CALL TO ORDER

ROLL CALL

PLEDGE OF ALLEGIANCE

APPROVE MINUTES OF JULY 2, 2012 REGULAR SESSION

1. TAX RELEASES: Ronnie Antry, Tax Administrator
2. COASTAL CAROLINA REGIONAL AIRPORT REQUEST: Tom Braaten, Airport Director
3. NC 20 REQUEST FOR SUPPORT: Tom Thompson, Executive Director
4. SUBDIVISIONS FOR APPROVAL: Don Baumgardner, Planning Director
5. VOLUNTARY AGRICULTURAL DISTRICT AND ENHANCED VOLUNTARY AGRICULTURAL DISTRICT ORDINANCE AMENDMENTS: Jim Hicks, County Attorney
6. BUDGET AMENDMENTS: Rick Hemphill, Assistant County Manager - Finance/Administration
7. APPOINTMENTS
 - A. Pending Appointments
 - B. Current Appointments
 - C. Upcoming Appointments
8. COUNTY ATTORNEY'S REPORT: Jim Hicks
9. COUNTY MANAGER'S REPORT: Jack Veit
10. COMMISSIONERS' REPORTS
11. CLOSED SESSION
12. WATER PROJECT UPDATE: Tim Baldwin, McKim & Creed

Agenda Date: July 16, 2012
Presenter: Ronnie Antry
Agenda Item No. 1
Board Action Required: Yes

TAX RELEASES

Craven County Tax Administrator, Ronnie Antry, will present the routine requests for tax releases contained in Attachment #1 for the Board's approval.

Board Action: A roll call vote is needed to approve tax releases.

Agenda Date: July 16, 2012
Presenter: Tom Braaten
Agenda Item No. 2
Board Action Required: Yes

COASTAL CAROLINA REGIONAL AIRPORT REQUEST

The airport is working on a large project which is scheduled to begin construction in August in order to finish before the cold weather arrives – it is a 5-month project. The FAA is working to get the grant offer letter here by the middle of July. Airport Director, Tom Braaten, would like to brief the Board of Commissioners and solicit their acceptance of the grant so notice to proceed can be issued to the contractor in July. Although the grant offer has not yet been received, the value will be approximately \$5,517,000 with the majority of the cost being the purchase of the EMAS (Element No. 2 on Attachment #2).

Board Action: Consider request to approve receipt of the grant.

Agenda Date: July 16, 2012
Presenter: Tom Thompson
Agenda Item No. 3
Board Action Required: Yes

NC 20 REQUEST FOR SUPPORT

NC 20 Executive Director, Tom Thompson, will make a presentation to solicit the Board's support. Background information and a requested resolution appear as Attachment #3.

Board Action: Consider request. If an appropriation is approved, a roll call vote will be necessary.

Agenda Date: July 16, 2012
Presenter: Don Baumgardner
Agenda Item No. 4
Board Action Required: Yes

SUBDIVISIONS FOR APPROVAL

The Planning Board has recommended the following subdivisions for approval.

Andrew Gray Tyson - Final

- Property is owned by Milton G. Holmes, surveyed by Terry K. Wheeler, PE, PLS
- Property is located within Twp 1 off of River Rd. (SR 1400)
- Parcel ID 1-065-17002
- Subdivision contains 1 lot on 0.66 acres
- Lot proposed to be served by Craven County water and an individual septic system

Jeremy N. Taylor - Final

- Property is owned by Thurman Taylor and surveyed by Gaskins Land Surveying, P.A.
- Property is located within Twp 2 on Hawk Rd.
- Parcel ID 2-020-071
- Subdivision contains 2 lots on 1.88 acres
- Lots proposed to be served by community water and an existing individual septic system

Bruce E. Whitford - Final

- Property is owned by Hazel W. Debruhl and surveyed by Gaskins Land Surveying, P. A.
- Property is located within Twp 1 on Craven Farms Rd. (SR 1442)
- Parcel ID 1-048-005
- Subdivision contains 1 lot on 0.74 acres
- Lot proposed to be served by Craven County water and an individual septic system

Board Action: A vote to approve the subdivisions is needed.

Agenda Date: July 16, 2012
Presenter: Jim Hicks
Agenda Item No. 5
Board Action Required: Yes

**VOLUNTARY AGRICULTURAL DISTRICT AND ENHANCED VOLUNTARY
AGRICULTURAL DISTRICT ORDINANCE AMENDMENTS**

County Attorney, Jim Hicks, will be available to answer any questions by the Board concerning proposed amendments to the ordinance prior to consideration for approval. The amendments, which appear in Article VI, were presented for public hearing on July 2, 2012, and are included here as Attachment #5.

Board Action: A simple majority vote will be adequate to adopt the amendments.

Agenda Date: July 16, 2012
Presenter: Rick Hemphill
Agenda Item No. 6
Board Action Required: Yes

BUDGET AMENDMENTS

Assistant County Manager-Finance/Administration, Rick Hemphill, will present the following budget amendments for the Board's approval.

Amendments: DSS/TANF– Need to roll forward the \$134,983 balance of unspent Special Adoption funds from FY '12. These funds are received from the State. The amount is determined by the number of adoptions finalized and must be used in the adoption program. There is no County match.

Public Bldg/Conv Center – Budget \$520,000 from Capital Reserve for repairs to floors, walls and doors and the purchase (w/installation) of carpet and other furnishings for Convention Center Bldg. These funds are a portion of the Convention Center settlement transferred to Capital Reserve in 2010.

Board Action: A roll call vote is needed to approve budget amendments.

Agenda Date: July 16, 2012
Presenter: _____
Agenda Item No. 7
Board Action Required: Yes

APPOINTMENTS

- A. PENDING APPOINTMENTS
- B. CURRENT APPOINTMENTS
- C. UPCOMING APPOINTMENTS

A. PENDING APPOINTMENT(S):

Craven County Clean Sweep Committee

(There are two vacancies remaining; no applications on file.)

Industrial Facilities Pollution Control Financing Authority

(There is one term remaining; no applications on file)

Agricultural Advisory Committee

(Two terms expiring; no applications on file)

Regional Aging Advisory Committee

(One vacancy created by the resignation of Robert Dorsey; no applications on file)

Coastal Carolina Regional Airport

Board needs to designate which of three new appointees (Charles Meekins, Mary Harris, Joseph Leahy) is filling the unexpired term of Chip Hughes, which will expire in 2014. The other terms will expire in 2015.

PENDING APPOINTMENT(S), Cont'd.

Recreation and Parks Advisory Committee

(Two re-appointments - **Dennis Smith and Brad White*** - were made on June 13, and there were two positions remaining for terms of Jeff Cannon and Mike Marks)

***NOTE:** Although Brad White's initial appointment in 2006 is within the County Commissioners' term limit, the by-laws of the Recreation Advisory Board stipulate a limit to two consecutive three-year terms, which he has already served.

AUTHORIZATION: Bylaws

MISSION/FUNCTION: Serves as the recreation advisory body for the Craven County Department of Recreation and Parks; suggests policies; consults with and advises Recreation Director, County Manager and Commissioners in matters related to recreation programs, finances, acquisition and disposal of property consistent with overall, long range recreation planning.

NUMBER OF MEMBERS:

12

TYPE:

1 from each township (8)
4 at-large

QUALIFICATIONS (Special Skills, Professional Classifications, Affiliations, Limitations, etc.):

LENGTH OF TERMS: 3 Years

MEETING SCHEDULE: 3rd Monday at 6:00 p.m.; Administration conference room

COMPENSATION: No Yes Specify: _____

Term(s) Expiring: Jeff Cannon (Appointed 2002)

Mike Marks (Appointed 2001)

Brad White (Appointed 2006)

Application on file: Attachment #7.A. (Attachment includes sheet showing district and township distribution among current advisory board members.)

B. CURRENT APPOINTMENTS: JULY

Fire Tax Commissioners

AUTHORIZATION: N.C.G.S. 69-25.5

MISSION/FUNCTION: To serve in an advisory capacity as representatives of the County Commissioners relative to determining the amount of fire protection needed in their respective districts, assuring that district residents are afforded fire protection commensurate with the amount of fire tax paid, and furnishing said protection.

NUMBER OF MEMBERS: 30 TYPE: 3 per District

QUALIFICATIONS (Special Skills, Professional Classifications, Affiliations, Limitations, etc.):

Must be a qualified voter of the district represented.

LENGTH OF TERMS: 2 Years
COMPENSATION: No Yes Specify: _____

Term(s) Expiring: Commissioner, Twp.7: William Laughinghouse (initial appointment 2002)

No applications on file

River Bend Planning Board (Extraterritorial Jurisdiction)

AUTHORIZATION: NCGS 160A-362

MISSION/FUNCTION: To advise the Town Council (Council) and Manager on planning and zoning issues to include, but not be limited to, establishment or revision of districts, regulation and restriction of the erection, construction, reconstruction, alteration, repair or use of buildings, structures or land in accordance with G.S. §160A-382. The Board shall work on other issues assigned by the Council or Manager. The Board shall propose principles, goals, and methods, and offer guidance to the Council and Manager on planning and zoning issues

NUMBER OF MEMBERS:
7

TYPE:
1 Resident of River Bend's ETJ Area appointed by County Commissioners; 6 appointed by River Bend

QUALIFICATIONS (Special Skills, Professional Classifications, Affiliations, Limitations, etc.):

LENGTH OF TERMS: 2 Years

MEETING SCHEDULE 1st Thursday – 7:00 p.m.

COMPENSATION: No Yes Specify: _____

Term(s) Expiring: Thomas Zak (Initial appointment 2001)

No applications on file

Craven-Pamlico-Carteret Regional Library

AUTHORIZATION: N.C.G.S. Article 19A, Chapter 153

MISSION/FUNCTION: Determine policy of the regional library system, select and appoint administrative librarian, advise in the preparation of the budget, approve budget and work to obtain the necessary funds, provide and maintain adequate buildings and grounds, keep abreast of pertinent legislation.

NUMBER OF MEMBERS:

9

TYPE:

3 per member county

QUALIFICATIONS (Special Skills, Professional Classifications, Affiliations, Limitations, etc.):

LENGTH OF TERMS: 6 Years

MEETING SCHEDULE: 3rd Tuesday in February, May, August and November at 10:00 a.m.

COMPENSATION: No Yes Specify: Mileage Reimbursement

Term(s) Ending: Michelle Snyder (Resignation; unexpired term ends 2016)

Applications on File: Attachment #7.B.

C. UPCOMING APPOINTMENTS

August

EMS Advisory Committee: Jackie Barrows, Harold Blizzard (Advisory), Chris Cangemi, Mark Dail, James Davis, Doug Furgason, John Harrell, Joe Hoffman, James Johnson, Stanley Kite (Advisory), Stanley Koontz, Linda Little, Jean Matthews, Robert Monteiro, Debra Rogers, Jane Sobotor, Robert Toler, Ronnie Weems, Rick Zaccadelli

Fire Tax Commissioners: Ray Hemphill (Rhems)

Promise Place: Jean Kenefick

September

Fire Tax Commissioners: Dred Mitchell (Cove City)

Board Action: The Board will need to consider all necessary appointments.

Agenda Date: July 16, 2012
Presenter: Jim Hicks
Agenda Item No. 8

COUNTY ATTORNEY'S REPORT

County Attorney, Jim Hicks, will request adoption of the resolution which is Attachment #8.

Agenda Date: July 16, 2012
Presenter: Jack Veit
Agenda Item No. 9

COUNTY MANAGER'S REPORT

Agenda Date: July 16, 2012
Presenter: _____
Agenda Item No. 10

COMMISSIONERS' REPORTS

Agenda Date: July 16, 2012
Presenter: _____
Agenda Item No. 11

CLOSED SESSION

The Board will be requested to go into closed session pursuant to N.C.G.S. 143-318.11(a)(3) to discuss negotiations for property acquisition.

Agenda Date: July 16, 2012
Presenter: Tim Baldwin
Agenda Item No. 12
Board Action Required: Yes

WATER PROJECT UPDATE

The Board will receive a Power Point presentation by Tim Baldwin of McKim & Creed on the water project, which appears as Attachment #12, and will be requested to approve the agreement with McKim and Creed which is included in the attachment.

Board Action: Receive information and consider request for approval.

CREDIT MEMOS SUBJECT TO BOARD APPROVAL ON 07/16/2012

TAXPAYER NAME	ACCT#/TICKET#	AMOUNT
ANDERSON, WILLIAM ERVIN CLERICAL ERROR - VALUE CORRECTION	0089217 2011-0090222	186.17
BONILLA, ALEX DEJESUS MILITARY EXEMPTION	0087071 2011-0005532	209.95
CARILLO, JOSE CRUZ DID NOT OWN 1/1/2010	0062461 2010-0008102	50.15
CARILLO, JOSE CRUZ DID NOT OWN 1/1/2010	0062461 2010-0090238	280.43
CARILLO, JOSE CRUZ DID NOT OWN 1/1/2011	0062461 2011-0008983	45.75
DANOS, MAXCILLIAN JOSEPH MILITARY EXEMPTION	0076487 2008-0013908	29.21
DANOS, MAXCILLIAN JOSEPH MILITARY EXEMPTION	0076487 2009-0013837	25.71
DANOS, MAXCILLIAN JOSEPH MILITARY EXEMPTION	0076487 2010-0012634	17.20
DANOS, MAXCILLIAN JOSEPH MILITARY EXEMPTION	0076487 2011-0013939	16.26
DISMUKE, MICHELLE NOT IN BUSINESS 1/1/2011	0089495 2011-0090475	55.39
HOOD, CLAY DID NOT OWN 1/1/2007	3511845 2007-0027006	56.33
HOOD, CLAY DID NOT OWN 1/1/2008	3511845 2008-0027479	126.21
HOOD, CLAY DID NOT OWN 1/1/2009	3511845 2009-0027557	114.14
HOOD, CLAY DID NOT OWN 1/1/2010	3511845 2010-0025119	89.13

CREDIT MEMOS SUBJECT TO BOARD APPROVAL ON 07/16/2012

TAXPAYER NAME	ACCT#/TICKET#	AMOUNT
HOOD, CLAY DID NOT OWN 1/1/2011	3511845 2011-0027820	79.98
IPOCK, ALBERT W & MARY DWELLING UNOCCUPIED SINCE 2007	3650851 2012-0090084	180.00
RESCHMAN, ALFRED DID NOT OWN 1/1/2010	0069024 2010-0043098	4.63
RESCHMAN, ALFRED DID NOT OWN 1/1/2011	0069024 2011-0047929	4.76
ROCHAM, AYEP DID NOT OWN 1/1/2011	0086039 2011-0047182	44.31
TODD, BRENDA W DWELLING VACANT SINCE 2006	0030335 2008-0091868	41.67
TODD, BRENDA W DWELLING VACANT SINCE 2006	0030335 2009-0056230	43.47
TODD, BRENDA W DWELLING VACANT SINCE 2006	0030335 2010-0051419	41.04
TODD, BRENDA W DWELLING VACANT SINCE 2006	0030335 2011-0057194	38.07
	23 -CREDIT MEMO(S)	1,779.96

REFUNDS SUBJECT TO BOARD APPROVAL ON 07/16/2012

TAXPAYER NAME	ACCT#/TICKET#	AMOUNT
	-REFUND(S)	.00

ELEMENT NO. 1

Runway 4 Extension and EMAS Installation (Construction)

Due to the increased use of regional jets for air travel at Coastal Carolina Regional Airport, the existing "B" approach category has changed to a "C" designation. This change in designation changes the required safety area from 300' x 600' to 400' x 1000'. A study was conducted with FY09 funds to evaluate alternatives available to bring the runway into compliance with FAA safety area standards.

In order to enhance the safety areas for both runway ends and bring them within FAA standards without reducing available runway length, additional pavement is being added to both runway ends as well as EMAS installation on the departure end of Runway 22.

This element provides for construction of the 300' extension of Runway 4 and Taxiway A, as well as 333' of paved safety overrun with an EMAS system. The 150' extension of Runway 22 and relocation of the localizer was completed in 2011.

ELEMENT NO. 2

EMAS Procurement

This element provides for procurement of the EMAS blocks and EMAS installation materials from ESCO. Also included is Over The Road shipping of the blocks to the Airport; ESCO's internal direct logistics related to production and shipping of the blocks; ESCO's construction phase inspection services; ESCO's construction administration services; and two semi-annual inspections of the EMAS by ESCO.

ELEMENT NO. 3

Taxiway A Lighting Rehabilitation (Design)

This project provides for design costs associated with the replacement of the Taxiway A edge lights from the end of Runway 4 to the end of Runway 22. The existing equipment is more than 20 years old and the airport is beginning to experience problems due to its age. The scope of this project is to replace the airfield lighting fixtures and wiring associated with Taxiway A, including connector taxiways C, J, and M. New cable will be installed in conduit and all new lights will be base mounted. Airfield directional signage on the Taxiway A circuit shall be replaced, as well. This project will upgrade the current taxiway lighting system and improve its performance and reliability.

RESOLUTION in SUPPORT OF NC 20

WHEREAS Craven County citizens have benefitted substantially from changes in homeowners and dwelling insurance legislation that were directly due to NC 20's efforts, and

WHEREAS Craven County has benefitted substantially from NC 20 contributions to improvements in legislation regarding stormwater regulation, and

WHEREAS Craven County has benefitted substantially from the elimination of a State-sponsored ruling that illegally took away variances from owners of undeveloped residential lots that were sold, and

WHEREAS Craven County has benefitted substantially from changes to NC 20 suggested legislation requiring a science-based approach to Sea Level Rise forecasting in lieu of computer modeling,

NOW THEREFORE BE IT RESOLVED THAT THE BOARD OF COMMISSIONERS OF THE COUNTY OF CRAVEN DOES HEREBY COMMEND NC 20 FOR ITS EFFORTS ON BEHALF OF EASTERN NORTH CAROLINA AND DOES HEREBY PLEDGE ITS SUPPORT THROUGH THE PAYMENT OF DUES FOR THE FISCAL YEAR 2012 ACCORDING TO THE NC 20 MEMBERSHIP DUES SCHEDULE ATTACHED HERETO AND INCORPORATED HEREIN



www.nc-20.com

“TWENTY COUNTIES...ONE VOICE”

Major Goals

To advocate for fairness in homeowner and dwelling insurance which export substantial amounts of money from the NC 20 counties

To advocate for science based environmental rulemaking in all areas of environmental regulation

To advocate for reasonable enforcement of environmental rule infractions rather than draconian penalties with little or no administrative challenge opportunities

To advocate for economic impact assessments in all rulemaking to ensure equitable and reasonable balance between private property rights, environmental protection, and economic development.

Board Members

Willo Kelly, President Larry Baldwin, VP Bud Stilley, VP Tom Thompson, Chairman Bill Price Bob Slocum Missy Baskerville
John Droz Daniel Scanlon Frank Heath Randy Keaton David Peoples Tim Buck Russell Overman
Mazie Smith Randell Woodruff William Cowan Bobby Outten David Burton Fred Bone Kathleen Riely

NC 20, Inc.
Statements of Financial Position
As of June 30, 2012

	<u>Jun 30, 12</u>	<u>Jun 30, 11</u>
ASSETS		
Current Assets		
Checking/Savings		
Checking	6,849.59	8,470.81
Total Checking/Savings	<u>6,849.59</u>	<u>8,470.81</u>
Total Current Assets	<u>6,849.59</u>	<u>8,470.81</u>
TOTAL ASSETS	<u>6,849.59</u>	<u>8,470.81</u>
LIABILITIES & EQUITY		
Liabilities		
Current Liabilities		
Accounts Payable		
Accounts Payable	-104.50	0.00
Total Accounts Payable	<u>-104.50</u>	<u>0.00</u>
Total Current Liabilities	<u>-104.50</u>	<u>0.00</u>
Total Liabilities	-104.50	0.00
Equity		
Retained Earnings	8,470.81	1,670.42
Net Income	<u>-1,516.72</u>	<u>6,800.39</u>
Total Equity	<u>6,954.09</u>	<u>8,470.81</u>
TOTAL LIABILITIES & EQUITY	<u>6,849.59</u>	<u>8,470.81</u>

NC 20, Inc.
Statements of Activities
July 2011 through June 2012

	<u>Jul '11 - Jun 12</u>	<u>Jul '10 - Jun 11</u>
Ordinary Income/Expense		
Income		
Meeting Income	1,300.00	1,240.00
Membership Dues	24,326.10	38,494.16
Reimbursed Expenses	-250.00	0.00
Total Income	<u>25,376.10</u>	<u>39,734.16</u>
Expense		
Conference/Meeting Expense	3,877.15	2,632.23
Contract Labor	4,269.68	12,347.16
Events Expense	1,283.82	0.00
Marketing	1,258.91	1,450.00
Meals and Entertainment	2,958.93	0.00
Miscellaneous	308.28	0.00
Office Supplies	336.25	289.82
Postage and Delivery	38.00	105.06
Printing and Reproduction	362.95	0.00
Professional Fees		
Accounting	660.00	625.00
Consulting	10,500.00	15,000.00
Professional Fees - Other	200.00	0.00
Total Professional Fees	<u>11,360.00</u>	<u>15,625.00</u>
Travel	638.85	0.00
Website	200.00	484.50
Total Expense	<u>26,892.82</u>	<u>32,933.77</u>
Net Ordinary Income	<u>-1,516.72</u>	<u>6,800.39</u>
Net Income	<u><u>-1,516.72</u></u>	<u><u>6,800.39</u></u>



“TWENTY COUNTIES...ONE VOICE”

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NC 20 Membership Dues Schedule

NC 20 is an economic development non-profit serving the people, local governments, and businesses of the 20 Coastal (CAMA) Counties in North Carolina. We concentrate primarily on actions that prevent regulation and rule making based on no or little credible science. We also oppose predatory pricing in the areas of homeowners and dwelling insurance. As a 501- (c) 4 corporation, private dues and contributions to NC 20 can usually be deducted as a necessary and reasonable business expense, but please check with your accountant.

- **Individuals** \$50
- **Counties** \$0.10 per capita (max \$10,000)
- **Municipalities**..... \$0.05 per capita (max \$1,000)
- **Engineering, consulting** \$500
- **Realtor/Homebuilder Associations**.....\$1/member
- **EMC's and Utilities** \$5,000
- **General Contractors**
 - \$500,000 or less..... \$200
 - \$501,000 to \$1,000,000..... \$250
 - \$1,000,000 to 2,000,000..... \$350
 - \$2,000,000 to 5,000,000..... \$500
 - \$5,000,000 and up..... \$1,000
- **Residential Developers**
 - 50 lots or less..... \$200
 - 50 to 100 lots..... \$250
 - 100 lots or more..... \$350
- **Commercial Developers** \$2,500

Dues are due and payable July 1 of each year: **NC 20, PO Box 14595, New Bern, NC 28561**

Name: _____

Address or Email _____

Preferred Phone number _____

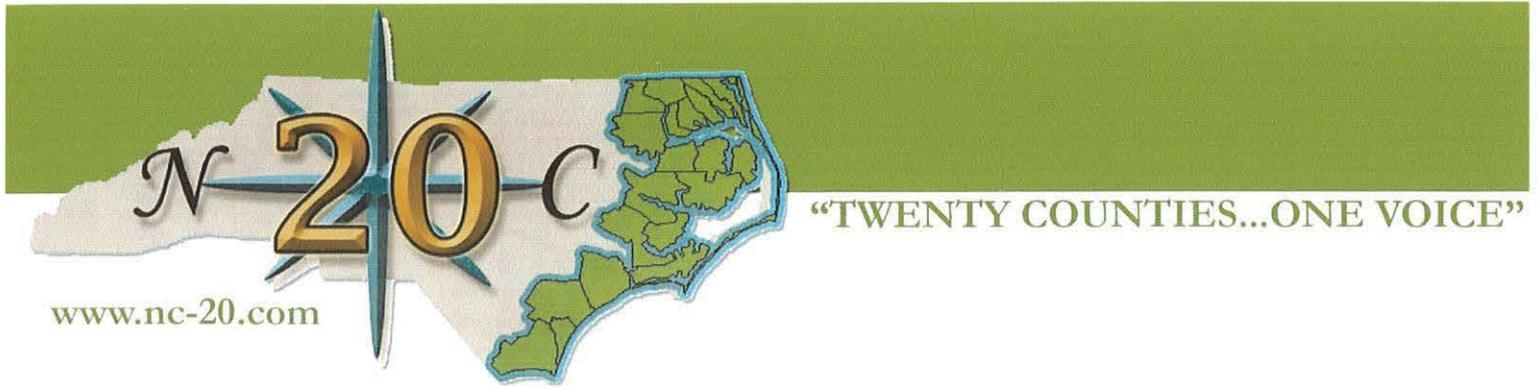
Board Members

Tom Thompson Willo Kelly Larry Baldwin Bud Stilley Missy Baskervill Fred Bone John Droz Kathleen Riely
 Bill Price Daniel Scanlon Frank Heath Randy Keaton David Peoples Tim Buck Russell Overman
 Mazie Smith Randell Woodruff Michael Renshaw Bobby Outten David Burton Bob Slocum

Website: www.nc-20.com

Email: tom@nc-20.com

Phone: (252)943-7930



INVOICE

Craven County

406 Craven St.

New Bern, NC 28560

County Dues for

2012.....\$10,000

Make Checks Payable to:

NC 20

PO Box 14595

New Bern, NC 28561

Board Members

Willo Kelly, President Larry Baldwin, VP Bud Stilley, VP Tom Thompson, Chairman Bill Price Bob Stocum
Missy Baskervill John Droz Daniel Scanlon Frank Heath Randy Keaton David Peoples Tim Buck Russell Overman
Mazie Smith Randell Woodruff William Cowan Bobby Outten David Burton Fred Bone



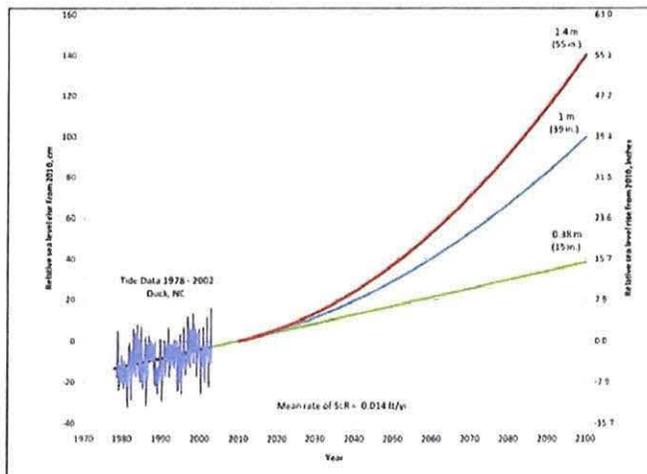
"TWENTY COUNTIES...ONE VOICE"

Sea-Level Rise

NC-20 achieved an important change to the proposed SLR draft the Coastal Resources Commission in March of 2011. It all started with the Power Point given by Rudy Rudolph, Director of the Carteret County Shore Protection Office, at the NC-20 meeting in New Bern. Legislative officials and county commissioners from around the region got a real education into the "flawed science" behind the CRC's draft proposal. That proposal mandated that a 39 inch sea-level rise be included in all land use plans in the NC-20 counties. There were a number of policy problems including the requirement to raise the elevations of all public and private developments to accommodate that 39 inch rise over the next 100 years. Additionally, it ignored the effect the document might have on insurance companies looking at insuring coastal properties in the future. The effect such a requirement might have on bank lending for real estate in the region was another question mark. The graph, reproduced below,

CRC's THREE SCENARIOS

- (1) 0.38 m (1.26 ft. or 15 inches) by 2100, or a rate of 4.27 mm/year ("low")
- (2) 1.00 m (3.28 ft. or 39 inches) by 2100, or a rate of 11 mm/year ("middle")
- (3) 1.4 m (4.59 ft. or 55 inches) by 2100, or a rate of 15 mm/year ("high")



was the staff's main "science" for requiring such a drastic policy revision. Of the three lines in the chart, only the bottom line, which is linear, was based on data, but that data was from

Duck, North Carolina. The measuring station there is not even in existence anymore and the data set itself only went back to 1980 and comprised a span of 24 years. In terms of sea-level rise over a century, that is simply not enough of a data set to get a reasonable approximation of future impacts. Additionally, Duck had the absolute worst projection of sea-level rise of any of the other stations in North Carolina, approximately 16 inches. NC-20 suggested the graph was statistically indefensible to CRC chairman, Bob Emory in a meeting in New Bern. The data from Southport showed only half the rate of sea-level rise that Duck experienced and the data there went back to 1933; that gave a very compelling straight line approximation of sea-level rise, not the geometric increase shown on the other two lines on the graph. Those lines (red and blue) projected a sea-level rise of 56 inches and 39 inches, respectively. Their contribution to the fallacy of the graph is that they are based on absolutely no scientific data whatsoever. They are simply "guesses" on the part of the CRC staff. The red line was actually from a 2007 paper by an individual who retracted his estimate (cutting it in half) in a second paper written in 2009. By using the worst possible existing reading, that of Duck, and using it as a "minimum" to compare to the other two hypothetical lines, it afforded the Science Panel the opportunity to pick the middle line and appear to be "compromising" between the highest and lowest estimates.

By the time the meeting took place in Beaufort, the policy had been substantially revised as a result of NC 20 intervention. Absent were any mandatory policy requirements in land use plans or for any other use regarding sea-level rise. Instead, the final document attached simply required the CRC staff to provide relevant data to each county and allow it to do its own planning for potential sea-level rise. At the final presentation which deleted all of the previous policy mandates, we thanked the Chairman and the Board of the CRC. We also asked the staff that in the future projections be based on more defensible data than was used in the original document.

There is no doubt that the sea-level has been slowly rising. All of the data points within the state have shown sea-level rise, although it appears to be fairly slow, linear, and very manageable in most cases. One of the things that Rudy Rudolph included in his original presentation was the geological information showing that in many cases land in Eastern North Carolina, particularly in the northeastern part, is actually sinking, albeit slowly. This is because the bedrock in the northeastern part of the State was essentially lost to the continent of Africa during the continental separation. In the southeastern part of the State, it remained and the rate of settlement (called subsidence) has been significantly less, which is why the Southport reading showed only half of the sea-level rise of the northeastern reading at Duck.

Because of the variability of SLR from north to south on the coast, we suggested that a "one size fits all" approach was not logical. The CRC agreed and decided that each county should be able to assess its own potential for sea-level rise and act accordingly. A very special thank you to Rudy Rudolph, Carteret County Shore Protection Office, and to Larry Baldwin and Missy Baskervill who were intimately involved in this project on behalf of NC-20. It is a tribute to them that Chairman Emory publically thanked NC-20 in his closing remarks.

**CRAVEN COUNTY
VOLUNTARY AGRICULTURAL DISTRICT &
ENHANCED VOLUNTARY AGRICULTURAL DISTRICT ORDINANCE**

**ARTICLE I
TITLE**

An ordinance of the Board of County Commissioners of CRAVEN COUNTY, NORTH CAROLINA, entitled, "**VOLUNTARY AGRICULTURAL DISTRICT & ENHANCED VOLUNTARY DISTRICT ORDINANCE.**"

**ARTICLE II
AUTHORITY**

The articles and sections of this Ordinance are adopted pursuant to authority conferred by the North Carolina General Statutes sections 106-735 through 106-744 and Chapter 153A.

**ARTICLE III
PURPOSE**

The purpose of this Ordinance is to promote agricultural values and the general welfare of the county and more specifically, increase identity and pride in the agricultural community and its way of life; encourage the economic and financial health of agriculture, horticulture and forestry; create awareness of agricultural areas within the county; inform non-farming neighbors and potential land purchasers of the presence of agricultural activities; provide the agricultural community an opportunity to provide input to Craven County Commissioners in their decisions that may affect agriculture; and, increase protection from non-farm development and other negative impacts on properly managed farms.

**ARTICLE IV
DEFINITIONS**

The following are defined for purposes of this Ordinance:

<u>Advisory Board:</u>	Craven County Agricultural Advisory Board.
<u>Chairperson:</u>	Chairperson of the Craven County Agricultural Advisory Board.
<u>District:</u>	Voluntary Agricultural District as established by this ordinance.
<u>Enhanced District</u>	Enhanced Voluntary Agricultural District as established by this ordinance.
<u>Board of Commissioners:</u>	Craven County Board of Commissioners.

**ARTICLE V
ADVISORY BOARD**

A. Creation

The Board of Commissioners shall establish an Advisory Board to implement the provisions of this program.

B. Membership

The Advisory Board shall consist of no less than eight (8) and no more than nine (9) members appointed by the Board of Commissioners with an effort to have the broadest geographic representation and commodity interest as possible and feasible.

C. Membership Requirements

1. Each Advisory Board member, except those serving in an *ex officio* capacity, shall be a Craven County resident and landowner.
2. At least five (5) of the members shall be actively engaged in farming, horticulture and/or forestry and meet the eligibility criteria for the Craven County Agricultural District program. Of the members actively engaged in farming, horticulture and/or forestry there shall be no more than one such member from each agricultural district or enhanced agricultural district from each Region as outlined in Article VI, Section A of this ordinance. Any additional members appointed by the Craven County Board of Commissioners or Craven County Soil & Water Conservation District shall have special interest, experience, or education in agriculture and/or rural land preservation. This determination shall be made without reference to *ex officio* members.
3. The members actively engaged in farming, horticulture, aquaculture and/or forestry, as well as other members shall be appointed by the Board of Commissioners from the names of individuals submitted to the Advisory Board by Craven County Soil and Water Conservation District, North Carolina Cooperative Extension, USDA Natural Resources Conservation Service, Farm Bureau, and the U.S. Farm Service Agency County Committee. Active agricultural producers, agricultural businesses, forestry, livestock production, horticultural producers, nonprofit agricultural organizations, and conservation or environmental organizations may submit nominations to these offices. The Board of Commissioners are not required to appoint any specific individuals submitted hereunder.
4. Additional members may be appointed to the Advisory Board in an *ex officio* capacity from the Soil and Water Conservation District Board, North

Carolina Cooperative Extension, the U.S. Farm Service Agency, or other agencies, as deemed necessary by the Board of Commissioners. Members serving in an *ex officio* capacity shall neither vote nor count toward quorum requirements.

5. At least one (1) of the Advisory Board members actively engaged in farming shall be appointed by the Craven County Soil and Water Conservation District Board of Supervisors.

D. Tenure

The initial Advisory Board is to consist of three (3) appointees for terms of one year; three (3) appointees for terms of two years; and three (3) appointees for terms of three years. Thereafter, all appointments are to be for terms of three years, with reappointment permitted.

E. Vacancies

1. Any vacancy on the Advisory Board is to be filled by the Board of Commissioners, after consultation by the Advisory Board, for the remainder of the unexpired term.
2. Any Advisory Board member may voluntarily resign by submitting a thirty (30) day written notice to the Advisory Board.

F. Removal

1. Any member of the Advisory Board may be removed by the Board of Commissioners upon a two-thirds vote of the Commissioners. No cause for removal shall be required.
2. The Advisory Board may request in writing to the Board of Commissioners removal of an Advisory Board member for inefficiency, neglect of duty, or malfeasance in office. The membership of any Advisory Board member who is absent for three (3) consecutive meetings may be subject to removal, unless such absence is excused by the Advisory Board for good and sufficient cause.

G. Funding

The *per diem* compensation of the members of the Advisory Board may be fixed by the Board of Commissioners and funds may be appropriated to the Advisory Board to perform its duties.

H. Advisory Board Procedure

1. Chairperson

The Advisory Board shall elect a chairperson and vice-chairperson each year at its first meeting of the fiscal year. The chairperson shall preside over all regular or special meetings of the Advisory Board. In the absence or disability of the chairperson, the vice-chairperson shall preside and shall exercise all the powers of the chairperson. Additional officers may be elected as needed.

2. Determination of Procedure

The Advisory Board may not adopt rules of procedure inconsistent with this Ordinance or with other provisions of State law.

3. Advisory Board Year

The Advisory Board shall use the Craven County fiscal year, July 1st – June 30th, as its fiscal year.

4. Meetings

Meetings of the Advisory Board shall be held at the call of the chairperson and at such other times as the Advisory Board may specify in its rules of procedure or upon the request of at least a majority of the Advisory Board Membership. A meeting shall be held at least annually and notice of any meetings to the members shall be in writing, unless otherwise agreed to by all Advisory Board members. Meeting dates and times shall be posted as far in advance as possible on the door of the meeting site and by advertisement in local newspapers or by other means of public dissemination of the meeting dates as may be agreed upon by at least a majority of the Advisory Board Membership. All meetings shall be open to the public.

5. Majority Vote and Quorum Requirements

All issues shall be decided by a majority vote of the members of the Advisory Board present, except as otherwise stated herein. A quorum will consist of one officer and at least one-half of the members. No business may be conducted by the Advisory Board without a quorum present.

6. Records

The Advisory Board shall keep minutes of the proceedings showing the vote of each member upon each question, or if absent or failing to vote, indicating such fact, and shall keep records of its examinations and other official actions, all of which shall be

filed in the office of the Advisory Board, or its designee, and shall be a public record.

7. Administrative

The Advisory Board may contract with the North Carolina Cooperative Extension, Craven County, office to serve the Board for record keeping, correspondence, application procedures under this, and whatever services the Board needs to complete its duties.

I. Duties

The Advisory Board shall:

1. Review and approve or disapprove applications of landowners for enrollment of qualified farmland, horticultural land, or forestland in either voluntary agricultural districts or enhanced voluntary agricultural districts;
2. Make recommendations concerning the establishment and modification of agricultural districts;
4. Conduct public hearings pursuant to Article 10 of this ordinance;
5. Advise the Board of Commissioners on projects, programs, or issues affecting the agricultural economy and agricultural, horticultural or forestry activities within the county that will affect agricultural districts;
6. Review and make recommendations concerning proposed amendments to this ordinance.
7. Develop a draft countywide farmland protection plan as defined in N.C.G.S. §106-744 (e) for presentation to the Board of Commissioners;
8. Study additional methods of protection for farming, horticulture, forestry, and the attendant land base, and make recommendations to the Board of Commissioners; and
9. Perform other agricultural, horticultural, and forestry-related tasks or duties assigned by the Board of Commissioners.

**ARTICLE VI
CREATION OF VOLUNTARY AGRICULTURAL DISTRICTS
AND ENHANCED VOLUNTARY AGRICULTURAL DISTRICTS**

A. Regions

Craven County is hereby divided into eight (8) regions as defined below:

1. Township 1, Vanceboro
2. Township 2, Hwy 17 N, Cayton, Fairfield Harbor
3. Township 3, Cove City, Wintergreen Road
4. Township 5, Havelock, Harlowe, Adams Creek
5. Township 6, Hwy 70 E, Riverdale
6. Township 7 James City
7. Township 8, New Bern, Trent Woods
8. Township 9, East of Core Creek, Cove City, Ft. Barnwell, Dover

B. Implementation

In order to implement the purposes stated in Article III, this program provides for the creation of voluntary agricultural districts which meet the following standards, in addition to those standards contained in G.S. 106-737:

1. The District or Enhanced District shall contain a minimum of ten (10) contiguous acres of qualified farmland; provided however that as long as a property owner has a least one qualified farm of at least (ten) acres enrolled, said property owner may enroll other farmland less than ten (10) acres as long as such other farmland meets those standards contained in G.S. 106-737;

_____ or

2. The District or Enhanced District shall contain two (2) or more qualified farms within areas designated by the Advisory Board.

All land enrolled in a region, defined in section A, above, shall be part of a single district, whether enrolled in the District or the Enhanced District. If a single farm has acreage in two or more regions, the farm shall participate in the district where the largest acreage is found. All land in a region as defined in section A, above, shall be treated as a single district whether enrolled in the District or the Enhanced District.

C. Education

The county may take such action as it deems appropriate through the Advisory Board or other entities or individuals to encourage the formation of the Districts and Enhanced Districts and to further their purposes and objectives, including the implementation of a public information program to reasonably inform landowners of the agricultural district program.

D. Addition and Withdrawal

1. Qualifying farmland in a region with an existing district shall be added to the district as herein provided.
2. In the event that one or more participants in the District or Enhanced District withdraw and the acreage in the District or Enhanced District becomes less than the minimum acreage required or results in the remaining land being noncontiguous, a voluntary agricultural district will continue to exist so long as there is one qualifying farm.

**ARTICLE VII
CERTIFICATION AND QUALIFICATION OF FARMLAND**

Requirements

To secure county certification as qualifying farmland in either a Voluntary Agricultural District or Enhanced Voluntary Agricultural District, a farm must meet the requirements of G.S. 106-737.

**ARTICLE VIII
APPLICATION, APPROVAL, AND APPEAL PROCEDURE**

A. Application Procedure

1. A landowner may apply to participate in either the Agricultural District or the Enhanced Agricultural District program by making application to the chairperson of the Advisory Board or a designated staff person, and must designate the application as for either Voluntary Agricultural District status or Enhanced District status. The application shall be on forms provided by the Advisory Board. The application to participate in a district may be filed with the application for certification of qualifying farmland.

2. A conservation agreement (required by N.C.G.S. §106-737 and defined in N.C.G.S. §121-35) suited to district type (Voluntary Agricultural District or Enhanced Voluntary Agricultural District) designated by the landowner to sustain, encourage, and promote agriculture must be executed by the landowner and filed with the Advisory Board, and if an irrevocable conservation easement recorded with the Craven County Register of Deeds. Permitted uses include agriculture, horticulture, forestry, and outdoor recreation. Conservation agreements for the Enhanced Agricultural District program may, at the election of the parties, include provisions requiring that any disputes between the county and the landowner be resolved through arbitration or mediation, and, in the event of litigation, that the prevailing party be awarded costs, including reasonable attorney fees. The Conservation Agreement for the Enhanced Voluntary Agricultural District shall be binding upon all successors in interest to the landowner, except for successors in interest resulting from the exercise of rights under a security interest or lien that preceded the Conservation Agreement.
3. The Board of Commissioners may establish a fee for such applications, which fee may be amended from time-to-time.

B. Approval Process

Upon submission of the application to the Advisory Board, the Advisory Board shall meet within sixty (60) days to approve or disapprove the application. The chairperson shall notify the applicant by first class mail of approval or disapproval of participation in the district. If approved, the Advisory Board shall record the executed conservation easement with the Craven County Register of Deeds, whether or not it is irrevocable.

C. Appeal

If an application is denied by the Advisory Board, the landowner may, within thirty, (30) days of notification of disapproval of the application, request in writing that the Advisory Board reconsider its decision. The request for reconsideration shall state the reason(s) therefore. Upon either an initial denial, if no request for reconsideration was made, or denial after reconsideration, the landowner shall have thirty (30) days from the date of notification to appeal the decision to the Board of Commissioners. Such appeal shall be presented in writing. The decision of the Board of Commissioners is final.

**ARTICLE IX
REVOCATION, ENFORCEMENT AND RENEWAL OF CONSERVATION
AGREEMENTS**

A. Revocation and Enforcement

1. District. By providing 30 days advance written notice to the Advisory Board, a landowner of qualifying farmland within a Voluntary Agricultural District may revoke the Conservation Agreement or the Advisory Board may revoke the same Conservation Agreement based on noncompliance by the landowner, subject to the same provisions as contained in Article VIII(C) for appeal of denials. Such revocation shall result in loss of qualifying farm status and loss of eligibility to participate in a district. Absent noncompliance by the landowner, neither the Advisory Board nor the Board of Commissioners shall revoke any Conservation Agreement prior to its expiration. If the Advisory Board shall revoke this Conservation Agreement for cause, the landowner shall have the appeal rights set forth in Article VIII(C). Transfers of land in a Voluntary Agricultural District due to death of the landowner, sale or gift shall not revoke the Conservation Agreement unless the land no longer qualifies for the present-use-value taxation program or, in the event that there are water or sewer assessments held in abeyance, the new owner(s) fails to agree in writing to accept liability for those assessments in the event that the land is withdrawn either voluntarily or involuntarily from the district. Enforcement of the terms of a Conservation Agreement for land enrolled in a Voluntary Agricultural District shall be limited to revocation of the Conservation Agreement and the benefits derived therefrom.

2. Enhanced District. Conservation Agreements for land within Enhanced Districts are irrevocable for a period of 10 years. Enforcement of the terms of the Conservation Agreement may be through an action for injunctive relief and/or damages in any court of competent jurisdiction. The County may also terminate any benefits to the owner under this program either permanently or during the period of violation, as appropriate. If the Advisory Board shall revoke this Conservation Agreement for cause, the landowner shall have the appeal rights set forth in Article VIII(C). The right to terminate program benefits is in addition to any legal rights that the County may have under either this Ordinance or the terms of the applicable Conservation Agreement. The County may seek costs of the action including reasonable attorney fees if such a provision is incorporated into the Conservation Agreement.

B. Renewal

1. District. A Conservation Agreements for land within a Voluntary Agricultural District shall continue until such time as it is revoked as otherwise allowed herein.

2. Enhanced District. A Conservation Agreement for the Enhanced Voluntary Agricultural District shall be deemed automatically renewed for an additional term of 3 years, unless either the Advisory Board or the landowner gives written notice to

the contrary prior to the termination date of the Conservation Agreement. At the end of each three (3) year term, the Conservation Agreement shall automatically renew for an additional three (3) year term unless notice of termination is given.

**ARTICLE X
WAIVER OF WATER AND SEWER OR ALL UTILITY ASSESSMENTS**

A. No Connection Required

1. A landowner belonging to the District shall not be required to connect to Craven County water and/or sewer systems.
2. A landowner belonging to an Enhanced District shall not be required to connect to Craven County utility systems.

B. Abeyance

1. Water and sewer assessments shall be held in abeyance, without interest, for farms in a District, until improvements on such property are connected to the water or sewer system for which the assessment was made.
2. Utility assessments shall be held in abeyance, without interest, for farms in an Enhanced District, until improvements on such property are connected to the utility system for which the assessment was made.

C. Termination of Abeyance

When the period of abeyance ends, the assessment is payable in accordance with the terms set out in the assessment resolution.

D. Suspension of Statute of Limitations

Statutes of limitations are suspended during the time that any assessment is held in abeyance without interest. The landowner may be required to sign an acknowledgement (that may be incorporated into the Conservation Agreement) of the abeyance of the statute of limitations upon collecting water and sewer assessments, or other utility assessments.

E. Other Statutory Abeyance Procedures

Nothing in this section is intended to diminish the authority of the County to hold assessments in abeyance under N.C.G.S. §153A-201, or other applicable law.

F. Conflict with Water and/or Sewer System Construction and Improvements Grants

To the extent that this section conflicts with the terms of federal, state, or other grants under which county utility systems are constructed this section shall not apply. This section shall not apply to utilities that are not owned by the County unless the County has entered into an agreement with the entity(ies) owning the utilities and that agreement provides that this Ordinance shall apply.

ARTICLE XI
ADDITIONAL ENHANCED AGRICULTURAL DISTRICT BENEFITS

Land enrolled in the Enhanced Voluntary Agricultural District program is entitled to all of the benefits available under the Voluntary Agricultural District program, and to the following additional benefits:

A. Sale of Non-farm Products

Landowners participating in Enhanced Districts may receive up to twenty-five percent of gross sales from the sale of nonfarm products and still qualify as a bona fide farm that is exempt from county zoning regulations under N.C.G.S. §153A-340(b). A farmer seeking to benefit from this subsection shall have the burden of establishing that the property's sale of nonfarm products did not exceed twenty-five percent of its gross sales. A county may adopt an ordinance pursuant to this section that sets forth the standards necessary for proof of compliance.

B. Agricultural Cost Share Program

Landowners participating in Enhanced Districts are eligible under N.C.G.S. §143-215.74(b) to receive the higher percentage of cost-share funds for the benefit of that farmland under the Agriculture Cost Share Program established pursuant to Part 9 of Article 21 of Chapter 143 of the General Statutes for funds to benefit that farmland.

C. Priority Consideration

State departments, institutions, or agencies that award grants to farmers are encouraged to give priority consideration to landowners participating in Enhanced Districts.

D. Utility Assessment Waiver

As provided in Article X above, waiver of all county utility assessments in addition to waiver of water and sewer assessments is available to all participants in Enhanced Districts.

ARTICLE XII PUBLIC HEARINGS

A. Purpose

Pursuant to N.C.G.S. §106-740, which provides that no state or local public agency or governmental unit may formally initiate any action to condemn any interest in qualifying farmland within a District until such agency or unit has requested the Advisory Board to hold a public hearing on the proposed condemnation.

B. Procedure

1. Upon receiving a request, the Advisory Board shall publish notice describing the proposed action in the appropriate newspapers of Craven County within five (5) business days of the request, and will in the same notice notify the public of a public hearing on the proposed condemnation, to be held within no less than fifteen (15) and no more than twenty-five (25) days of receipt of the request. Fees and costs associated with the individual or group requesting the hearing (and appropriate notices).
2. The Advisory Board shall meet to review:
 - a. Whether the need for the project has been satisfactorily established by the agency or unit of government involved, including a review of any fiscal impact analysis conducted by the agency involved; and
 - b. Whether there are alternatives to the proposed action that have less impact and are less disruptive to the agricultural activities of the District within which the proposed action is to take place.
3. The Advisory Board shall consult with the County Agricultural Extension Agent, the Natural Resources Conservation Service District Conservationist, and any other individuals, agencies, or organizations deemed by the Advisory Board to be necessary for its review of the proposed action.
4. Within no less than fifteen (15) days and nor more than twenty-five (25) days after the hearing, the Advisory Board shall make a report containing its findings and recommendations regarding the proposed action. The report shall be made available

to the public prior to its being conveyed to the decision-making body of the agency proposing the acquisition.

5. There will be a period of ten (10) days allowed for public comment on the report of the Advisory Board.
6. After the ten (10) day period for public comment has expired, the Advisory Board shall submit a final report containing all of its findings and recommendations regarding the proposed action to the decision making body of the agency proposing the acquisition.
7. The total time period, from the day that a request for a hearing has been received to the day that a final report is issued to the decision making body of the agency proposing the acquisition, shall not exceed sixty (60) days. If the agency agrees to an extension, the agency and the Advisory Board shall mutually agree upon a schedule to be set forth in writing and made available to the public.
8. Pursuant to N.C.G.S. §106-740, the Board of Commissioners shall not permit any formal initiation of condemnation by local agencies while the proposed condemnation is properly before the Advisory Board.

ARTICLE XIII NOTIFICATION

A Record Notice of Proximity to Voluntary Agricultural District

1. Procedure

Upon certification of qualifying farmland and designation of real property as a District, the Craven County Register of Deeds shall provide some form of notice reasonably calculated to alert a person researching the title of a particular tract that such tract is located within one-half mile of a voluntary agricultural district.

2. Limit of Liability

In no event shall the County or any of its officers, employees, members of the Advisory Board, or agents be held liable in damages for any misfeasance, malfeasance, or nonfeasance occurring in good faith in connection with the duties or obligations imposed by this ordinance.

3. No Cause of Action

In no event shall any cause of action arise out of the failure of a person researching the title of a particular tract to report to any person the proximity of the tract to a qualifying farm or Voluntary Agricultural District or Enhanced Voluntary Agricultural District as defined in this Ordinance.

B. Signage

Signs identifying approved agricultural districts may be placed along the rights-of-way of major roads that pass through or next to those districts or as deemed appropriate by the Advisory Board or its administrative agent for the county's agricultural district program. Members of Agricultural Districts may place signs on their individual farms denoting their Agricultural District membership. When applicable, placement of signage shall be coordinated with the North Carolina Department of Transportation.

C. Maps

Maps identifying currently enlisted farms shall be made available at the discretion of the Advisory Board.

**ARTICLE XIV
SUBDIVISION ORDINANCE AND ZONING ORDINANCE REVIEW**

Developers of subdivisions or planned unit developments shall designate on preliminary development plans, the existence of the Districts within one-half (1/2) aerial mile of the proposed development.

**ARTICLE XV
COUNTY LAND-USE PLANNING**

A. Duty of the Advisory Board

It shall be the duty of the Advisory Board to advise the Board of Commissioners or the agency or office to which the Board of Commissioners delegate authority to oversee county land use planning, on the status, progress, and activities of the county's agricultural district program and to also coordinate the formation and maintenance of agricultural districts with the county's land use planning activities and the county's land use plan if one currently exists at the time this ordinance is enacted or when one is formed.

B. Posting of Notice

The following notice, of a size and form suitable for posting, shall be posted in the office of the Register of Deeds, and any other office or agency the Advisory Board deems necessary:

Craven County has established agricultural districts to protect and preserve agricultural lands and activities. These districts have been developed and mapped by the county to inform all purchasers of real property that certain agricultural and forestry activities, including but not limited to pesticide spraying, manure spreading, machinery and truck operation, livestock operations, sawing, and other common farming activities may occur in these districts any time during the day or night. Maps and information on the location of enlisted farm lands can be found on the Craven County GIS web site located at <http://gismaps.cravencounty.com/maps/>. Information regarding enrollment or establishment of these districts can be obtained from the following Craven County offices: Register of Deeds, County Planning, NC Cooperative Extension, Soil & Water District office, or the USDA Natural Resources Conservation Service.

C. Growth Corridors

At such time as the county might establish designated growth corridors, agricultural districts shall not be permitted in the designated growth corridors, as delineated on the official county planning map without the approval of the Board of Commissioners. Districts located in growth corridors designated after the effective date of this program may remain, but shall not be expanded within the growth corridor area without the approval of the Board of Commissioners.

**ARTICLE XVI
CONSULTATION AUTHORITY**

The Advisory Board may consult with North Carolina Cooperative Extension, the Natural Resources Conservation Service, Craven Soil & Water Conservation District, the North Carolina Department of Agriculture and Consumer Services, and with any other individual, agency, or organization the Advisory Board deems necessary to properly conduct its business.

**ARTICLE XVII
NORTH CAROLINA AGENCY NOTIFICATION**

Annually Report to the North Carolina Department of Agriculture and Consumer Services

A copy of this shall be sent to the Office of the North Carolina Commissioner of Agriculture and Consumer Services, the Board of Commissioners, the County Office of North Carolina Cooperative Extension, and the Soil and Water Conservation District office after adoption. At least annually the county shall submit a written report to the Craven County Board of Commissioners and Commissioner of Agriculture and Consumer Services on the county's agricultural district program, including the following information:

1. Number of landowners enrolled;
2. Number of acres enrolled;
3. Number of acres certified during the reporting period;
4. Number of acres denied during the reporting period;
5. Number of acres for which applications are pending;
6. Copies of any amendments to the this Ordinance; and
7. Any other information the Advisory Board deems useful.

**ARTICLE XVIII
LEGAL PROVISIONS**

A. Severability

If any article, section, subsection, clause, phrase, or portion of this ordinance is for any reason found invalid or unconstitutional by any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this ordinance.

B. Conflict with other ordinances and statutes

Whenever the provisions of this Ordinance conflict with other ordinances of Craven County, this Ordinance shall govern. Whenever the provisions of any federal or state statute require more restrictive provisions than are required by this Ordinance, the provisions of such statute shall govern.

C. Amendments

After notification and in consultation with the Agricultural District Advisory Board, this Ordinance may be amended from time to time by the Board of Commissioners, subject to a public hearing, notice given at least ten (10) days in advance.

**ARTICLE XIX
ENACTMENT**

The Craven County Board of Commissioners hereby adopts and enacts the preceding articles and sections of this Ordinance.

Adopted this the _____ day of _____, 20__.

Motion for adoption by _____ and seconded by _____.

CRAVEN COUNTY BOARD OF COMMISSIONERS

Chairperson

ATTEST:

Clerk to Board of Commissioners

Approved as to legal form and adequacy:

County Attorney

Volunteer Board Information and Interest Sheet

Craven County, North Carolina

Names of board, committee, authority, etc., in which you are interested. Please list in order of priority:

<u>Recreation and Parks Advisory Committee</u>			
Name:	Forrestine Riggs	Home Phone:	252-527-3551
Home Address:	437 E. Kornegay		
City:	Dover	Zip Code:	28526
Township:	3	City Limits:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Occupation:	Retired	Business Phone:	
Place of Employment:		Fax Number:	
E-Mail Address:	riggs3333@embarqmail.com		

(Please indicate your preferred contact number.)

Education

Dover High

Business and Civic Experience

Lenoir County Board of Education

Areas of Expertise, Interest, Skills

Why do you want to serve?

Currently serving as Town of Dover Alderman - In charge of recreational activities

(A resume may be attached to this form, but will not be accepted in lieu of the form.)

Date: 07/02/2012

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 DN: cn=zune-tuner://windowsphone/73bcb68%20-%205b729af%20-%207520a926%20-%204115c620
 Date: 2012.07.02 13:08:47 -04'00'

Signature

The Craven County Board of Commissioners sincerely appreciates the interest of all citizens in serving their county. For more information on the responsibilities of various boards, you may view the on-line board descriptions or contact the County Clerk's Office at (252) 636-6601. RETURN FORM TO: CRAVEN COUNTY CLERK, 406 CRAVEN STREET, NEW BERN, NC 28560. The form may also be sent via e-mail (gbryan@cravencountync.gov) or fax: (252) 637-0526.

This form will remain active until two years after date received.

Recreation and Parks Advisory Board

<u>Name</u>	<u>Residence</u>	<u>District</u>	<u>Twp.</u>	<u>Rep.</u>
1. Jim Bernthal	Trent Woods	4	8	at-large
2. Jeff Cannon	Cove City	2	3	Twp. 3
3. Dickie Fairburn	Cove City	2	9	at-large
4. Charles Fisher	Trent Woods	4	8	Twp. 8
5. Demetrius Harkley	North Harlowe	5	5	Twp. 5
6. Tom Lelli	Fairfield Harbour	1	2	at-large
7. Mike Marks	Spring Garden	2	9	Twp. 9
8. Daniel Miller	Fairfield Harbour	1	2	Twp. 2
9. Robert Sabdo	Havelock	6	6	Twp. 6
10. Dennis Smith	Vanceboro	1	1	Twp. 1
11. Bill Taylor	Perrytown	7	7	Twp.7
12. Brad White	Vanceboro	1	1	at-large

Craven Pamlico Carteret Regional Library

Jackie B. Beach • Director

RECEIVED JUL 06 2012

400 Johnson Street
New Bern, NC 28560-4098

252-638-7800 • Phone
252-638-7817 • Fax

TO: Gwen Bryan, Craven County Clerk

FROM: Jackie Beach

DATE: July 3, 2012

RE: Appointment to CPC Regional Board

Attached is a copy of the "Volunteer Board Information and Interest Sheet" for Mr. Gunter E.L von der Hyde who currently serves on the board of the Havelock-Craven County Public Library.

I am submitting Mr. von der Hyde as a possible appointee to the CPC Regional Board to fill the vacancy left by the resignation of Michelle Snyder. Mrs. Snyder has relocated to Richmond, VA with her family; however, she would have been subject to replacement due to non-attendance had she not resigned. Her unexpired term runs through December 2016. Mrs. Esther Hardin currently represents the New Bern area on the Regional Board and Commissioner Tom Mark represents western Craven County. A representative from Havelock and the surrounding area would provide balanced representation for Craven County. Mr. von der Hyde is very knowledgeable about library operation as he has been on the Havelock Board for several years. I have spoken to Mr von der Hyde and he would be interested in serving.

The resignation of Mrs. Snyder has also left a vacancy on the board of the New Bern—Craven County Library. Joanne Straight, New Bern Librarian, has submitted the name of Mrs. Kathleen Forbes for consideration. Mrs. Forbes will be submitting her interest sheet on-line. Mrs. Forbes is a strong library supporter and her children are regular participants in the New Bern Library's children's activities. She would be an excellent board member.

If you need additional information, please let me know.

/jbb

Attachments

Xc: Scott Dacey, County Commissioner



Volunteer Board Information and Interest Sheet

Craven County, North Carolina

Names of board, committee, authority, etc., in which you are interested. Please list in order of priority:

Regional Library Board

Name: Gunter E. L. von der Heyde Home Phone: 252-447-8501
Home Address: 109 Friar Ct
City: Havelock, NC Zip Code: 28532-9652
Township: _____ City Limits: Yes No
Occupation: Retired Business Phone: _____
Place of Employment: _____ Fax Number: _____
E-Mail Address: gvonderheyde@yahoo.com

(Please indicate your preferred contact number.)

Education

HS, some College

Business and Civic Experience

Retird Marine; Havelock Library Board; Board of Directors, Military Officers Association; Owner, Logical Computer Solutions; Partner, Auto Service of Baltimore; Computer programmer, Kerr-McGee chemical Corp.;

Areas of Expertise, Interest, Skills

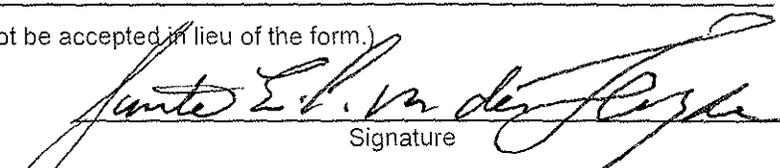
Information Technology; Golf,

Why do you want to serve?

I feel that my history of management would be of use to the County

(A resume may be attached to this form, but will not be accepted in lieu of the form.)

Date: 06/25/2012


Signature

The Craven County Board of Commissioners sincerely appreciates the interest of all citizens in serving their county. For more information on the responsibilities of various boards, you may view the on-line board descriptions or contact the County Clerk's Office at (252) 636-6601. RETURN FORM TO: CRAVEN COUNTY CLERK, 406 CRAVEN STREET, NEW BERN, NC 28560. The form may also be sent via e-mail (gbryan@cravencountync.gov) or fax: (252) 637-0526.

This form will remain active until two years after date received.

RESOLUTION

WHEREAS, Attorneys serving counties across the State of North Carolina perform an invaluable service to their respective jurisdictions; and

WHEREAS, County governing boards place tremendous reliance upon this esteemed group of professionals, seeking their guidance and advice in the conduct of county business according to the highest legal and ethical standards; and

WHEREAS, North Carolina County Attorneys and Social Service Attorneys have chosen to favor Craven County with hosting their annual meeting July 19-21, 2012 in the midst of Craven County's celebration of its 300th Anniversary; and

WHEREAS, two thirds of North Carolina's counties can claim descent from Craven County; and

WHEREAS, Beaufort and Hyde Counties, also celebrating their 300th Anniversaries during 2012, were the source of many of the remaining one third of North Carolina's Counties; and

WHEREAS, the year 2012 marks a significant milestone inasmuch as the vast majority of counties in North Carolina have cause to celebrate this anniversary.

NOW, THEREFORE, BE IT RESOLVED that the Craven County Board of Commissioners extends a hearty welcome to North Carolina's County Attorneys and DSS Attorneys.

BE IT FURTHER RESOLVED that the Board of Commissioners, on behalf of the citizens of Craven County, expresses appreciation for the important work that you do in service to all of North Carolina citizens.

Adopted this 16th day of July, 2012.

Chairman Lee Kyle Allen
Craven County Board of Commissioners

Gwendolyn M. Bryan
Clerk to the Board



Board of Commissioners Update Meeting

Water Supply Expansion
Monday July 16, 2012

Attachment #12.



Agenda

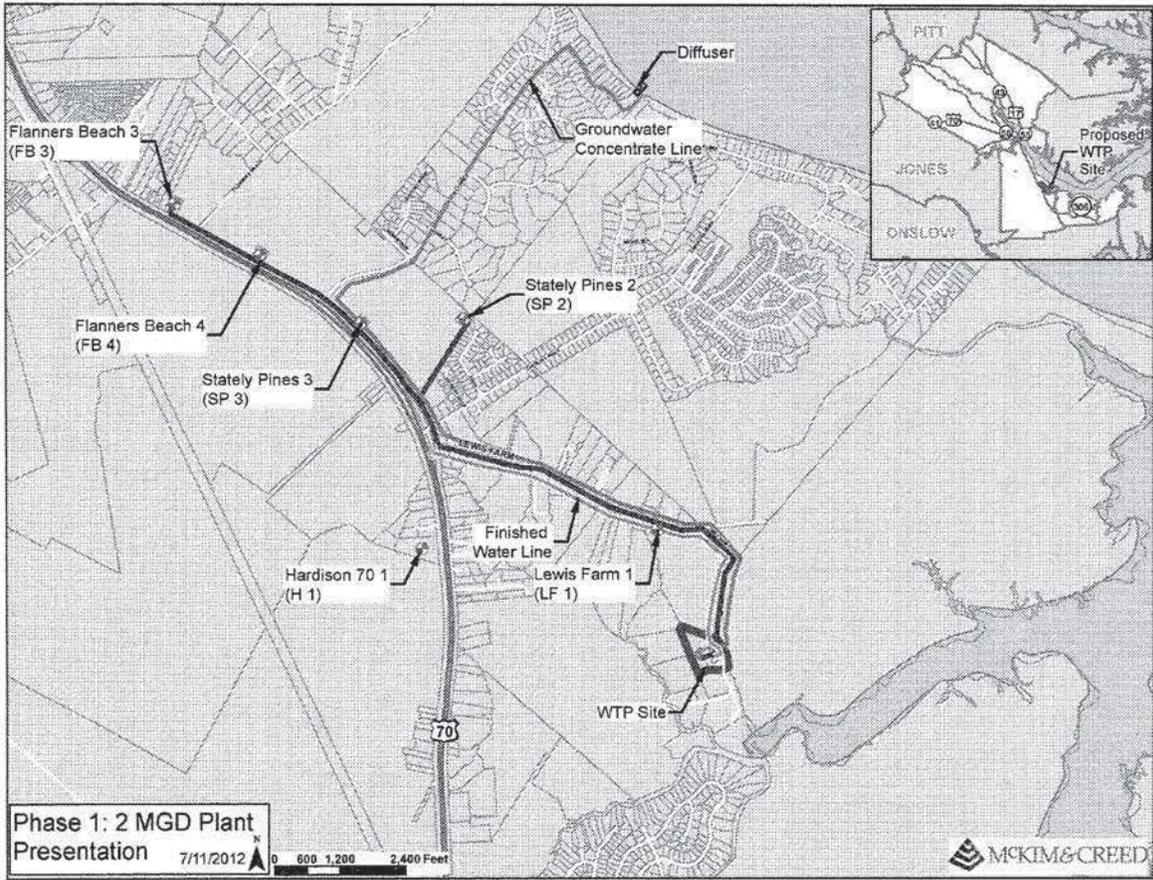
- Review of Project Scope
- Review of Activities to Date
- Review of Project Schedule
- Discussion/action on Pending Decisions
- Activities Going Forward
- Review of Project Budget

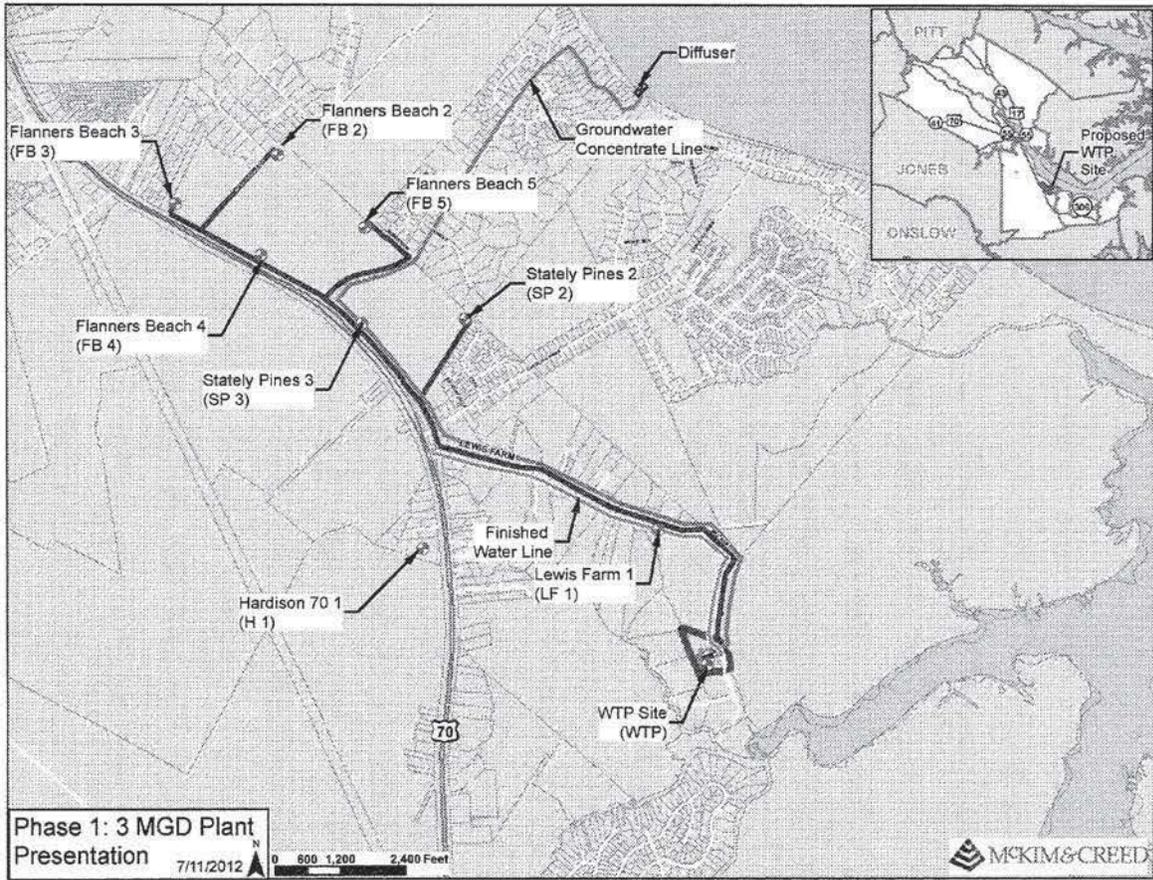


Project Scope

- Develop Castle Hayne Aquifer Source to Displace Cretaceous Aquifer
- New Nanofiltration Water Treatment Plant
- Concentrate Dispersal to Neuse River
- Raw Water Supply – New Wells
- Raw Water Transmission System
- Finished Water System Connections







Activities To Date

- Treatment Plant Siting
- Water Supply Wells Siting and Approvals
- Land Acquisition
- Membrane Pilot Testing
- Environmental Documentation
- Preliminary Engineering Report
- Finalize/Submit PER & EA
- Finalize Design Work Amendment
- Conduct Well Yield and Quality Testing



Schedule

- Engineering Authorization July 2012
- Design Activities to Run Concurrently with EA Review Process
- Submit for Permits June 2013
- Anticipate Bidding January 2014
- Final Project Completion Summer 2016



Pending Decisions

- Engineering Authorization
- Funding: Planning Loan Application



Activity Going Forward

July/August 2012

- Conduct Additional Well Testing
- Design surveys
- Basis of Design Document
- Preliminary Design



Questions?



Project Budget

Phase 1 – 2 MGD Plant

Construction -	\$20.9M
Contingency -	\$ 2.1M
Engineering Services -	\$ 4.1 M
Current Expenditures -	\$ 0.9M
Additional Expenditures -	\$0.35M
Land/Legal/Admin. Costs -	\$ 1.25M
Total Project Cost -	\$29.6M



July 12, 2012

110967

Mr. Jack Veit
County Manager
Craven County
2830 Neuse Boulevard
New Bern, NC 28560

Re: Engineering Services Agreement
Craven County Potable Water Supply and Treatment Facilities - Phase 1
Design, Bid/Award, Permitting, Construction, Post-Construction and
Special Services

Dear Mr. Veit:

McKim & Creed, Inc. (Engineer) is pleased to submit this proposal to provide technical engineering services for the design, permitting, bid/award, construction and post-construction phases for implementation of the new potable water supply, treatment and distribution system.

PROJECT UNDERSTANDING

The Craven County, North Carolina, Water Department (County) intends to design, construct, and operate a new Nanofiltration Membrane Water Treatment Plant (WTP) and a new well field water supply derived from the Castle-Hayne aquifer. It has been decided to develop the project in two phases, with the initial phase consisting of 2 MGD of *nominal* finished water supply with an additive bid alternative to 3 MGD capacity and with the ability to modularly expand the facility to 5 MGD by adding additional membrane trains.

Venture IV Building
1730 Varsity Drive
Raleigh, NC 27606

Specifically, the Phase 1 scope of work will include the following components:

Design Basis for 2 MGD Capacity (See Attachment: Phase 1- 2 MGD Plant)

- Five (5) Phase 1 water supply production wells (needed to produce 2 MGD of finished potable water); each with standby diesel emergency generators for the following sites.

919.233.8091

Fax 919.233.8031

www.mckimcreed.com

- Lewis Farm 1 (LF 1)
- Kern Tract
 - Stately Pines 3 (SP 3)
 - Flanners Beach 2 (FB 2)
 - Flanners Beach 3 (FB 3)
 - Flanners Beach 4 (FB 4)

- Raw Water Transmission Mains (approximately 16,700 LF of 10, 20 and 24-inch diameter pipe) to convey raw water from the new well sites to the treatment facility (to be located at the Ellis Farm site off Mill Dam Road in Eastern Craven County).

- 2 MGD (Phase 1 capacity) nanofiltration membrane treatment plant with two, 1.0-MGD rated treatment trains installed initially but with room for adding additional treatment trains for a total future capacity of 5 MGD and ancillary structures and equipment including:
 - Cartridge filtration, acid feed and anti-scalant pretreatment equipment
 - Nanofiltration equipment (two - 1.0 MGD trains initially, with room for a total design capacity of 5.0 MGD)
 - Permeate degasifiers
 - Mixing and chlorine disinfection contact tank for sodium hypochlorite.
 - Stand-alone bulk chemical storage systems
 - Finished water storage (1 MG pre-stressed ground storage tank)
 - Finished water pumping (three- 1.0 MGD pumps with VFDs)
 - NF concentrate pumping station and forcemain to convey NF-concentrate to the new NPDES-permitted river diffuser (to be constructed so as to discharge into the Neuse River Estuary)
 - Electrical power supply and site distribution, including full standby power generation (based on ultimate Water Treatment Facility finished water capacity of 5.0 MGD).
 - Supervisory control and data acquisition system (SCADA) serving the new water supply and treatment operation.
 - Instrumentation and controls (well field and in-plant with connectivity to the new central SCADA system)
 - New Administration Building designed as a stand-alone 1-story brick & block building including:

- Superintendent office
- Operator offices
- Operator/SCADA control work room
- Analytical laboratory
- Conference room
- Operator shower and locker room facilities (one each for men and women)
- Break room
- Mechanical/electrical rooms
- New operations building designed for ultimate design capacity of 5.0 MGD (finished water production) including:
 - Process rooms
 - Electrical rooms
 - Pump room
 - Chemical feed rooms
 - Mechanical/electrical rooms
- Finished water mains (approximately 8,100 LF of 18-inch diameter) to connect the NF treatment facility to the 12-inch existing potable water transmission line along US Highway 70.
- NF-concentrate water connecting piping based on total future capacity of 5.0 MGD (approximately 20,000 LF of 16-inch diameter pipe) to convey concentrate from the WTF located on the Ellis Farm Site to the new NPDES-permitted river diffuser in the Neuse River Estuary at the end of Stately Pines Drive which is the site of County's previously abandoned wastewater effluent discharge. The concentrate line will generally follow the Lewis Farm Road ROW to the eastern edge of the US 70 ROW, then progress to the east down Stately Pines Road to the river.
- Conventional gravity on-site septic system and leachate drain field for domestic waste stream for the administration building.

Design Basis for Additive Bid Alternative to 3 MGD Capacity

(See Attachment: Phase 1- 3 MGD Plant)

- Three (3) additional water supply production wells (needed to produce a total of 3 MGD of finished potable water); each with standby diesel emergency generators for the following sites.
 - WTP Site (WTP)

- Kern Tract
 - Stately Pines 2 (SP 2)
 - Flanners Beach 5 (FB 5)
- Additional Raw Water Transmission Mains (approximately 5,700 LF of 10-inch diameter pipe) to convey raw water from the 3 additional new well sites to the raw water transmission main system.
- Additional 1 MGD nanofiltration membrane train for a total Phase 1 capacity of 3 MGD with ancillary structures and equipment.
- Finished water pumping (three- 1.5 MGD pumps with VFDs)

SCOPE OF WORK

I. Pre-Design Phase

Limited Topographic Survey

McKim & Creed proposes to utilize conventional topographic surveys to develop base maps with sufficient accuracy to allow completion of engineered design drawings for the specific infrastructure designs described by this agreement. Following is a summary of conventional surveys included within this scope of work:

1. One, 10-acre Water Treatment Facility Site (Recorded Plat as amended at Plat Cabinet H, Slide 195-E) and eight, 1-acre water supply well sites as previously noted located in eastern Craven County. Set horizontal and vertical control at each site tied to NC grid coordinates.
2. Survey an area of approximately 1-acre adjacent to the proposed NPDES river diffuser in the Neuse River Estuary as needed to design the submerged diffuser structure. Note: Bathometric survey has already been performed under previous scope of work. Set horizontal and vertical control at the site tied to NC grid coordinates.

3. Prepare base maps for each of the sites in Items 1) and 2) above to be used for developing engineered designs and construction drawings. Develop elevation contours on each basemap with 1-foot intervals and at a scale of less than or equal to 1"=40'.
4. Set vertical and horizontal survey control tied to NC grid coordinates along the raw water transmission main alignment with sufficient detail to be able to utilize recent aerial photogrammetry as basemaps for designing the approximately 22,400 lf of new raw water lines.
5. Set vertical and horizontal survey control tied to NC grid coordinates along the finished potable water transmission main alignment with sufficient detail to be able to utilize recent aerial photogrammetry as basemaps for designing the approximately 8,100 lf of new potable water transmission main. The new water line will be needed to connect the nanofiltration water treatment facility to the existing 12" finished water main located in the US 70 ROW.
6. Set vertical and horizontal survey control tied to NC grid along the nanofiltration-concentrate forcemain alignment with sufficient detail to be able to utilize recent aerial photogrammetry as basemaps and for profile for designing the approximately 20,000 lf of new concentrate forcemain. The new forcemain will be needed to connect the nanofiltration water treatment facility to the proposed NPDES-permitted river diffuser in the Neuse River near the Stately Pines Development.

Limited Geotechnical Evaluation Coordination

McKim & Creed will assist the County by providing for coordination with the County's geotechnical subconsultant. This service will generally provide for the following:

1. Assist with contacting a geotechnical subconsultant to request a scope and fee proposal on behalf of the County.
2. Provide description of the project and required scope of services.

3. Once County has subconsultant under contract, provide a map with approximate boring locations to assist the County's subconsultant with layout of boring locations.
4. Provide for field survey for locating the soil boring locations only at the water treatment plant site to determine horizontal location and vertical elevation estimated to be ten (10) borings.

Additional Test Well Assistance

McKim & Creed shall provide assistance for coordination for two (2) additional test wells and one (1) production well for a total of five (5) test wells and one (1) production well for the eight Phase 1 wells. Specifically this scope of work shall include the following:

1. Locate and stake the test well.
2. Meet on site with the NC Department of Health to obtain well site approval for the test well.
3. Coordinate with the County's contractor, Skippers Well Drilling for the test well work.
4. Coordinate with the County's hydrologists, GMA, for the test well work.

II. 30 % Preliminary Design Phase

1. Evaluate Membrane Equipment Suppliers: for purposes of selecting pre-qualified manufacturers or preparing a basis for sole-source specification.
2. Establish Final Equipment Sizing: and work with the County to determine which Original Equipment Manufacture's (OEM) equipment they would like to utilize for preparing bid and construction documents.
3. Select and Size Auxiliary Equipment, building systems, SCADA and electrical systems.
4. Prepare process design computations: for each unit treatment process including the cartridge filtration pretreatment unit, nanofiltration

process, degasification system, finished water stabilization process, chemical feed and bulk storage systems, mixing tank, transfer pumping systems, finished water storage, process piping systems, finished water pumping system, building mechanical, electrical, instrumentation, controls, and SCADA system as required to make a complete and fully operational nanofiltration water treatment facility.

5. Basis of Design: For the new infrastructure prepare a basis for design document consisting of a series of technical memoranda describing key design aspects and calculations for each unit treatment process element, well, river diffuser and pipeline and each major discipline (civil, electrical, I&C, mechanical, and structural).
6. Process Schematic, Hydraulic Profile, and Flow Diagrams: Prepare a system schematic, hydraulic profile and flow diagram for the proposed new water supply, treatment, and distribution system.
7. Water Treatment Facility Site Plan: Prepare a preliminary site plan showing major treatment units, tanks, structures and process piping on the proposed site.
8. Prepare Prequalification Package for Membrane System: Prepare an OEM's prequalification solicitation package to pre-qualify a minimum of (3) nanofiltration system manufacturers. Assist the County with advertising the "Request for Qualifications" (RFP) and solicit information from qualified OEMs. Work with the County to review the submittals, conduct interviews and evaluate the qualification packages to short-list the best-qualified nanofiltration system manufacturers.
9. "Typical" Castle-Hayne Water Supply Well Site Plan: Work with County Staff to develop a "Standard" for the new water supply production wells, monitoring wells, well houses, blowoffs, access roads, site security fencing, SCADA antennas and emergency generators.
10. Preliminary Engineer's Opinion of Probable Construction Cost: Prepare an updated preliminary construction cost estimate using the various preliminary design documents to improve the accuracy of the initial, conceptual construction cost estimate.
11. Submit Preliminary Design Documents for Review: Compile and submit the basis of design document, process schematics, hydraulic profile, preliminary site plan, and cost estimate to Craven County for review and approval as part of the 30% stage of design completion.
12. Review 30% Submittal with County: Meet with Craven County Staff to review, discuss and receive owner input on the 30% design submittal.

13. Revise & Address County Comments on 30% Submittal: Revise the appropriate preliminary design documents (as necessary within the original scope of the project) to address the County's 30% design review comments. The updated basis for design document will be finalized and included as part of the Authorization to Construct (ATC) application package.

III. Final Design Phase

Final Design Drawings & Specifications:

1. Prepare final design drawings and construction documents and issue this work under a **single** construction contract with (3) divisions including :
 - a. Division 1: Phase 1 Nanofiltration Water Treatment Facility
 - b. Division 2: Phase 1 Castle-Hayne Water Supply Wells (8 total)
 - c. Division 3: Phase 1 Raw Water Transmission, Concentrate Forcemain, and Finished Water Transmission Pipelines
2. Complete final design and prepare bid and construction documents for three (3) divisions. Our fee proposal is based on the need to develop construction drawings to include the following:
 - a. Division 1 – Phase 1 Nanofiltration Water Treatment Facility
 - Civil/Site
 - Mechanical
 - Electrical
 - I&C
 - Structural
 - Architectural
 - HVAC
 - Plumbing
 - b. Division 2 – Castle-Hayne Water Supply Wells
 - Civil/Site

- Electrical
- I&C
- Structural

c. Division 3 – Raw Water Transmission, Concentrate Forcemain and Finished Water Transmission Pipelines

- Plan View for Water Pipe Lines (No profile)
 - Plan and Profile Views for Concentrate Forcemain
 - Directional Drill Profiles
 - Diffuser
3. Prepare and submit drawings @ 60%, and 90% completion stages for review by the County.
 4. Prepare updated cost opinions for the project to be submitted at the 60% and 90% stages of design completion.
 5. Prepare technical specifications for the construction contract. The document shall include a comprehensive table of contents followed by the 16-division technical specifications to be included in the Construction Documents.
 6. Prepare bid and contract documents (NC Drinking Water SRF format) for the construction contract.
 7. Review Meetings: McKim & Creed will attend regular monthly meetings with Craven County staff during the final design effort to provide project status updates, review project documents and receive comments. In addition, we will schedule and participate in two formal Final Design review meetings with Craven project review team at the, 60%, and 90% stage of Final Design preparation.
 8. Prepare “Released for Regulatory Review” drawings based upon County review comments from the 90% submission.
 9. Engineer’s Opinion of Probable Construction Cost: Under this task, McKim & Creed will formally update the Cost Opinion that was last updated as part of the Final Design (at 90% stage of completion) to reflect the additional information and greater design detail associated with the “Released for Regulatory Review” document set. Upon completion, we will provide our Opinion of Probable Construction Cost to the Craven County Management Team.

10. Engineer's Design Computations Manual: Design assumptions, computations, equipment selections, hydraulic capacity, required reactor sizes, motive equipment requirements and associated information will be prepared as part of the design and compiled into a three-ring binder titled "Design Manual" for submission to appropriate regulatory agencies during the permitting process.

Permitting:

At the final completion level and after receipt of the FONSI, prepare permit applications and submit final design documents for regulatory review for the three divisions of work as one project for the following permits:

1. Between the 60% and 90% design levels and once the site impacts of the project have been finalized, prepare and submit an application for a CAMA general permit.
2. NPDES Wastewater Permit (NCDENR Water Quality, NPDES Program) for the concentrate discharge.
3. Pre-Construction Notification Form (NCDENR & US Army Corps of Engineers). Note: It is planned to provide for directional bores at all utility crossings to avoid wetland impacts. Therefore, it is not anticipated that a nationwide nor 404/401 permit will be required.
4. Public Water Supply Well Site approval for each of the eight new water supply wells (NCDEH Public Water Supply Section).
5. Production well plan and specifications approval for the eight new water supply wells
6. Water Supply Plans and Specifications Approval for the construction contract (NCDEH Public Water Supply Section).
7. Authorization to Construct for the construction contract (NCDEH Public Water Supply Section).
8. Concentrate forcemain "Authorization to Construct" (NCDENR Infrastructure Finance Section)
9. Erosion & Sediment Control (NCDENR Land Quality Section) for the construction contract.- Stormwater Permit (NCDENR Division of Water Quality Stormwater Permitting Unit) for the construction contract.-
10. Public Highway Encroachment Agreements for Raw Water Transmission, Finished Water Lines, & Concentrate Forcemains (NCDOT).
11. Driveway permits- one for the Water Treatment Facility and each of the (8) proposed new wells (NCDOT).

12. Local approval for conventional on-site gravity septic system for administration building at the water treatment plant site.

IV. Bid Document Phase

Prepare bid-ready Construction Documents including drawings, details of construction, front end documents, technical specifications, bid and contract documents with sufficient detail to satisfy minimum NCDEH and USEPA Drinking Water SRF requirements. The bid-ready construction documents will be prepared from review comments received from the County staff from the 90% final design submittal and comments and edits received from the permit approval process. The bid documents will be prepared to include the additive alternate bid items as previously described.

V. Bidder Pre-qualification Phase

McKim & Creed will conduct a pre-qualification process for potential bidders in order to provide a list of qualified construction contractors for the project. Specific tasks include the following:

1. Develop a list of pre-qualification requirements required for evaluating prospective bidders.
2. Review the list of pre-qualification requirements with County staff and incorporate suggested revisions to the list.
3. Prepare the pre-qualification submittal package.
4. Place formal advertisement of the pre-qualification package in the agreed upon advertisement media. Note that the County shall be responsible for all fees associated with advertisement of the pre-qualification package.
5. Schedule and conduct a pre-submittal meeting, receive questions from prospective attendees, prepare and distribute minutes.
6. Issue pre-qualification documents to prospective bidders. Maintain a record of prospective bidders to whom documents have been issued

7. Respond to bidder inquiries and prepare Addenda as required. Addenda shall be submitted in reproducible format to the agreed upon media outlets and all bidders to whom the pre-qualification package have been issued.
8. Receive all bidder submittals on specified and appropriate closing date.
9. Review all bidder documentation and request clarifications to determine if bidder has met the requirements of the pre-qualification solicitation.
10. Review the list of proposed pre-qualified bidders with County staff and make any final edits and revisions to the pre-qualified list of bidders.
11. Notify all bidders of the final approved list of pre-qualified bidders.

VI. Bid & Award Phase

Our fee for Bid Phase services is premised on our understanding that McKim & Creed will be responsible for managing the bid and contracting process for one (1) construction contract that includes the following divisions:

- a. Division 1 Phase 1 Nanofiltration Water Treatment Facility
- b. Division 2:Phase 1 Castle-Hayne Water Supply Wells (8 total)
- c. Division 3: Phase 1 Raw Water Transmission, Concentrate Forcemain, and Finished Water Transmission Pipelines.

Our role in the bid phase will include working with Craven County Staff to assist with the pre-bid conference, preparation of pre-bid meeting minutes for distribution to all bidders, responding to written questions from bidders, preparing written responses to bidder questions, assisting with bid evaluations, and working with County Staff to coordinate and conduct the bid opening. The documents for bidding will be issued and managed by McKim & Creed including the addendums.

Specifically Bid Phase tasks will include:

1. Provide necessary information to Craven County for the preparation of project bid advertisement.
2. Provide necessary information for the preparation of the bid package that will be utilized for bid solicitation.
3. Conduct the Pre-Bid meeting and issue minutes.
4. Assist in answering bidder's questions concerning elements designed by McKim & Creed and prepare technical information as necessary for inclusion in addenda if required.
5. Issue addendums.
6. Provide Craven County with one set of official, signed and sealed construction document sets for their file.
7. Conduct the bid opening.
8. Review bid packages and prepare the certified bid tabulations.
9. Provide written letter of recommendation of award.
10. Compile contract documents for execution.
11. Provide for five (5) sets of documents for execution.

The Bid Phase will conclude upon Craven County's issuance of a notice to proceed to the selected construction contractor.

VII. Construction Phase

Construction Administration

Our fee for Construction Administration services is premised on administering (1) construction contract over a 27month-long construction period.

Our construction administration services will include:

1. Conduct pre-construction meeting and issue minutes.
2. Schedule and hold regular monthly construction meetings with the owner and contractor. Prepare and distribute construction meeting minutes to document discussions and responsibilities.
3. Receive, log, track and perform shop drawing reviews. Compare shop drawings to the plans and technical specifications, note deficiencies or compliance issues, and issue comments to the contractor.
4. Receive, log, track, & respond to contractor's written requests for information or clarification of the contract documents.

5. Provide clarification of requirements as indicated on the construction plans and specifications if/when questions arise during construction.
6. Receive, log, track, & respond to notifications from contractor of changes to work conditions and requests for change orders.
7. Review materials testing for conformance to the specifications.
8. Receive, log, track, & review contractor's monthly invoices and make recommendations for payment.
9. Conduct site visits with the Resident Construction Observer to review project status and to confirm that work is progressing in accordance with the approved construction documents.
10. Schedule and conduct the substantial completion evaluation. Prepare the substantial completion punchlist and work with the contractor to insure outstanding work is completed.
11. Upon satisfactory completion of the Substantial Completion punchlist and after reviewing test results from the Contractor, prepare the Engineer's Substantial Completion Certification.
12. Schedule and conduct the final completion evaluation. Prepare the final completion punchlist and work with the contractor to insure work is fully complete.
13. After the contractor has satisfactorily completed the final punchlist, submitted all test results, as-built redlined drawings, and release of waivers and claims, McKim & Creed will prepare the Engineer's Final Completion Certification.

Resident Construction Observation

1. McKim & Creed will provide a Resident who is well-qualified and experienced in constructing municipal water treatment facilities. **It shall be noted that the County will provide a resident construction observer for the pipelines and the eight production wells under a separate contract.**
2. The Resident shall prepare reports for each day he is on-site and submit them to McKim & Creed's Project Engineer for review on a weekly basis.
3. The Resident will maintain a photographic record during construction to document aspects of the construction process.

4. The Resident will immediately call the Contractor's attention to work that is being completed that does not comply with the approved plans and specifications. Should the Contractor fail to remedy the situation, than the Resident will immediately contact the Engineer.
5. The Resident shall document field conditions and will maintain a record as to the weather, contractors personnel on-site, contractor's equipment on-site and the specific work completed since the last site visit.
6. The Resident shall confirm that Contractor As-Built Drawings are continuously being kept up-to-date and being completed to minimum standards of care.
7. The Resident shall review the Contractor's monthly pay requests to confirm that all quantities are accurate and shall recommend payment.
8. The Resident shall participate in monthly construction meetings and will represent the Engineer in responding to technical questions.

Our fee for Resident Construction Observation is based on the following assumptions:

- a. We anticipate that the construction period for the water treatment facility shall be 24 months to Substantial Completion with an additional 3 months for Final Completion/Plant Shake Down for 27 months of construction observation. The fee for Resident Construction Observation is based on an average of 45 hours per week for substantial completion and 24 hours per week for the final completion/plant shake down period. We have therefore programmed a total of 4,992 hours of resident observer time into our fees for this effort.

VIII. Special Inspections

Provide for Special Inspection Requirements as determined by the North Carolina State Building Code and the Craven County Inspections Department. The Engineer shall provide for review of monthly reports and provide a monthly report summarizing the various reports. The monthly Special Inspection Report

shall be submitted to the County and the Craven County Inspections Department. The reports shall summarize the following construction activities pertaining to the identified structures and buildings:

1. Soils and foundations including piles
2. Cast-in-place concrete structures
3. Precast concrete structures
4. Masonry buildings
5. Structural steel to include bolted and welded connections

IX. Post-Construction Phase

System Startup and Commissioning

Provide technical services to work with the Contractor, equipment representatives, electrical subcontractor, and Craven County Operators to systematically startup, test, and commission the new Castle-Hayne Raw Water Supply System, Nanofiltration Water Treatment facility, and finished water distribution system to demonstrate that the system is completely functional and capable of producing a potable water that complies with State & Federal drinking water standards and that the system will function in accordance with the NCDEH operating permit conditions.

Operator Training

Plan, coordinate and conduct two 8-hour formal Operator Training sessions following startup activities in association with the membrane OEM. The first day session will include classroom PowerPoint presentations including a system overview, individual unit treatment process overview, normal operating procedures, SCADA screens, reporting, alarm conditions, and standard maintenance requirements. The second day will be spent out in the facility and will consist of hands-on training for the operators.

One additional day of training will be provided approximately 3 months after the initial 2-day training session as a refresher course and address additional questions that the operators may have.

Record Drawings

Our effort for Record Drawing preparation services is premised on the understanding that the contractor will be responsible for continuously maintaining red-lined "as-built" markups on the approved construction drawings. **Final as constructed surveys will not be made for final horizontal and vertical elevation verifications of the completed project.**

After review of the contractor's "as-built" documents by McKim & Creed's Resident Construction Observer to ensure completeness, we will prepare after construction "Record Drawings" reflecting the identified changes (as compared to the Released for Construction set of documents) for the Castle-Hayne Raw Water Supply System, Nanofiltration Water Treatment facility, and finished water distribution system infrastructure. Record Drawings will be submitted to the Craven County project team upon completion. After County approval, digital (pdf copies) will be made of the full drawing set and delivered to Craven County on CD.

Operations and Maintenance Manual Preparation

The Water System Operating Permit requires that the Owner produce an Operation and Maintenance Manual for the new facility that can be referenced by the Operators from time to time.

McKim & Creed proposes to prepare an O&M manual for the nanofiltration water treatment system that will consist of the following sections:

1. Section 1- Introduction
 - a. General Description of the Water Treatment Facility
 - b. Purpose & Scope of the Manual
 - c. Operator and Managerial Responsibilities
 - d. Safety Considerations
2. Section 2 – Water Treatment System
 - a. Overview
 - b. Theory of Nanofiltration Treatment
3. Section 3 – Unit Treatment Process Descriptions
 - a. Cartridge Filtration
 - b. Chemical Pretreatment
 - c. Nanofiltration
 - d. Degasification

- e. Chemical Stabilization
 - f. Chlorine Disinfection
 - g. Bulk Chemical Storage and Feed Systems
 - h. Finished Water Transfer Pumping Station
 - i. Clearwell
 - j. High Service Distribution Pumping System
 - k. Process Monitoring
 - l. Plant-Wide Support Facilities
4. Section 4 – Water Treatment Facility Control and Alarm Systems
- a. Introduction
 - b. SCADA System Overview
 - c. Historic Process Trending and Recording
 - d. Automated Process Control Reports
 - e. Critical Alarms
 - f. Non-Critical Alarms
5. Section 5 - Systematic Plant Startup, Shutdown and Normal Operation
- a. Introduction
 - b. Startup Procedures
 - c. Shutdown Procedures
 - d. Normal Operation
6. Section 6- Sampling and Monitoring Program
- a. Introduction
 - b. General Sampling Overview
 - c. Sample Type
 - d. Sample Locations and Frequency
 - e. Preservation of Samples
 - f. Operator Conducted Monitoring and Testing
7. Section 7 – Laboratory Testing and Analysis
- a. Introduction
 - b. Analytical Testing Program
8. Section 8 – Record Keeping
- a. General Plant Records
 - b. Daily Record Keeping

- c. SCADA-Generated Monthly Reports
 - d. Incident Report
 - e. Alarm Log
 - f. Maintenance Records
 - g. Reporting to Regulatory Agencies
9. Section 9 – Process Equipment Specifications
- a. Cartridge Filtration
 - b. Chemical Pretreatment Systems
 - c. Nanofiltration System
 - d. Degasification System
 - e. Chemical Stabilization System
 - f. Chlorine Disinfection System
 - g. Bulk Chemical Storage and Feed Systems
 - h. Finished Water Transfer Pumping Station
 - i. Finished Water Clearwell
 - j. High Service Distribution Pumping System
 - k. Process Monitoring
 - l. Plant-Wide Support Facilities
10. Section 10 – Emergency and Disaster Recovery Plan
- a. Introduction
 - b. Disaster Recovery Plan
 - c. Emergency Operating Procedures

First Year Technical Assistance

As with any new system, the first year of operation presents unique challenges and frustrations. McKim & Creed proposes to offer technical assistance to the Operators and System Manager during the first full year of operation. The fee for this service is based on the following anticipated effort:

1. Provide an average of 24 hours technical/process support assistance per month (288 hours total) and associated administrative support to assist with operational questions and optimization on the plant process.
2. Provide an average of 8 hours of technical service each month to coordinate and schedule warranty repairs with the Contractor.

3. Conduct a mid-year warranty inspection (24 hours) with the Operators and the Contractor to develop a warranty punchlist. Then review the completed work of the Contractor to ensure items are corrected (24 hours).
4. Conduct a final warranty inspection (24 hours) with the Operators and the Contractor at 11-1/2 months after substantial certification to develop a warranty punchlist. Then review the completed work of the Contractor to ensure items are corrected (24 hours).

X. Special Services

1. Wetland Delineation, Survey and Mapping Allowance

A prior preliminary effort was completed to generally identify where jurisdictional wetlands exist at each of the sites proposed for the new water supply infrastructure including the water treatment facility site, (9) preliminary water supply well locations, and generally along the raw water transmission main alignments.

Prior to construction, the limits of all jurisdictional wetlands must be delineated, flagged (with consecutive, numbered flagging), surveyed, mapped and platted for recording. McKim & Creed proposes to subcontract with the Land Management Group, Inc. to complete the required wetland delineations at each of the sites where jurisdictional wetlands were previously identified.

After wetland delineation has been completed, but prior to surveying, we will invite NCDENR and USACE to the sites and ask them to confirm that the delineations were completed in accordance with State and Federal standards.

Upon completion of wetland delineation and approval by regulatory agencies, McKim & Creed will send out field crews to survey and prepare basemaps showing the approved wetland boundaries at each site. Where required, McKim & Creed will prepare formal plats sealed by a NC-licensed land surveyor showing the delineated wetland limits in relation to the property lines. These plats will be provided to the US Army Corps of Engineers for certification of the final approved delineation.

The estimated fee (allowance) established herein for this effort was set based on information gathered from earlier wetland identification efforts and the anticipated cost for the delineation, field crews to survey, map and plat wetland limits on (8) 1-acre well sites, (1) 10-acre water treatment plant site and approximately 50,500 LF of water pipeline and forcemain alignments. The actual cost of the effort may be more or less depending on the actual size and number of wetlands mapped and the associated time and materials required to complete the work at all of the sites.

2. Easement Surveying and Platting Allowance:

This allowance will be used to cover the cost of deed research to establish the legal rights of way and to identify areas where additional easements or rights of way will be required to accommodate the new improvements. Since the number of required easements is currently unknown, we have included an allowance of \$40,000 for deed research, property line surveys and to prepare easement plats for such easements.

3. Craven County Site Plan Submittal Allowance:

This allowance provides for preparing a site plan permitting package for submittal to the Craven County Planning Department. At this time it is not known the effort required for site plan permitting approvals. It is assumed the proposed properties for the water treatment facility and the eight (8) well sites are currently zoned for the intended uses. This effort does not include attending public meetings. If required, attending and addressing public meetings will be additional services.

4. Phase 1 Environmental Site Assessment:

Provide for a Phase 1 Environmental Site Assessment of the approximate 50,500 LF of water pipelines and forcemain alignments. The assessment will consist of a database search of the government records through VERAcheck or Environmental Data Resources (EDR) with a one page memo of findings. Property owners of the identified tracts of known history of contamination will be contacted. A report of findings will be provided indicating research of the database, site reconnaissance, interview with the property owners, findings, opinions and conclusions.

5. Dynamic Hydraulic Model of the Raw Water Transmission System Allowance:

Prepare a hydrodynamic model of the raw water supply system reflecting the initial (8) raw water wells, the (13) future wells, the new water treatment facility, and the approximately 116,000 lf of raw water transmission main (ultimate design scenario) to interconnect the system. Utilize the model to optimize system design and for sizing each segment of the raw water transmission system. Note: all pipeline segments will be designed for ultimate flow conditions in order to avoid having to replace, parallel or upgrade individual pipeline segments.

6. Dynamic Hydraulic Model of the Potable Water Distribution System:

Prepare a hydrodynamic model of the finished water distribution system reflecting the existing transmission mains, elevated tanks, booster pumping stations and associated infrastructure along with the proposed new water treatment facility and associated potable water transmission mains. Utilize the model to identify how best to incorporate the new Castle-Hayne water supply and treatment system into the existing Craven County finished water distribution system. The model will be utilized to identify needed improvements to allow the system to function reliably using two sources and potable water input locations.

7. State Funding Assistance:

Assist the County with the funding process through the State Public Water Supply Section. Provide assistance with completing the funding process (note application previously submitted under other scope of services) and provide for up to four (4) meetings with the State Public Water Supply Section as may be needed.

XI. Additional Services

Additional professional services can be provided (within the qualifications of the Engineer and associate firms) upon request by the County, or upon authorization by the County following recommendation of the Engineer. These services shall include but not limited to the follow:

1. Expert witness or technical support concerning property surveying or engineering matters for which the Engineer has no direct liability.

2. Providing for Subsurface Utility Engineering (SUE Level A and Level B) for the locating of underground utilities for the project area.
3. Providing for soil borings or geotechnical analyses
4. Providing for an environmental impact statement (EIS).
5. Providing for detailed investigations and/or surveys for archaeological sites, protected/threatened/endangered species of shellfish, fish, wildlife and natural vegetation.
6. Providing for Phase 2 Environmental Site Assessment for the project area.
7. Providing for determining, evaluating and assistance with contaminated soils for the project area.
8. Providing for 404/401 permitting, nationwide permitting or individual permit for wetlands for the project area.
9. Providing assistance for wetland mitigation.
10. Providing for assistance with easement acquisitions.
11. Preparing for, coordinating with, participating in and responding to structured independent review processes for construction management, cost estimating, value engineering and constructability reviews requested by the County and performing of furnishing services required to revise studies, reports, drawings, specifications, or other bidding documents as a result of such review processes.
12. Providing for SCADA integration for the new SCADA system for the water treatment facility and the remote well sites.
13. Providing for the design of a maintenance building for the water treatment facilities.
14. Providing for improvements to the existing potable water distribution system as a result of the findings of the hydraulic modeling to include but not limited to up sizing water mains, modifications to water booster stations and elevated water storage.
15. Providing for the design of pile foundations for the project that may be required as a result of the Limited Geotechnical Evaluation.
16. Providing for evaluating additional well sites beyond the eight sites identified in this agreement.
17. Providing for any re-designs requested by the County after final design drawings have been approved.
18. Providing for horizontal surveys and profile surveys for the raw and finished water pipelines and horizontal surveys for the forcemain.
19. Surveys to locate and delineate the 100 year flood plain.

20. Boundary surveys for the water plant site or the eight (8) well sites.
21. Construction survey and staking.
22. Preparing for multi-prime contracts and bidding.
23. All permit fees including the NCDENR Express Reviews and associated application fees shall be either paid directly by the County or shall be a reimbursable expense billed to the County.
24. Providing for a resubmittal of the funding application to Public Water Supply Section to renew/improve the funding application points.
25. Providing a Resident Construction Observer for the pipelines and the eight (8) wells.

XII. County Responsibilities

The following items shall be the responsibility of the County:

1. Provide Engineer with all criteria and full information as to County's requirements for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility and expandability, and any budgetary limitations; and furnish copies of all design and construction standards which County will require to be included in the Drawings and Specifications; and furnish copies of County's standard forms, conditions and related documents for Engineer to include in the Bidding Documents, when applicable.
2. The timely provision of all available information, data, reports, records, and maps to which the County has access and which are needed by the Engineer for the performance of the services provided herein.
3. Providing assistance and cooperation for the Engineer in obtaining any other needed material which the County does not have in its possession.

4. Making available the services of the County as may be necessary to obtain information as needed to perform the work program set forth in the Scope of Services.
5. The designation of a single representative who will be authorized to make necessary decisions required on behalf of the County and will serve to provide the necessary direction and coordination for the project.

County's Representative – Rusty Hayes, Superintendent
Engineer's Representative – Timothy Baldwin, PE, Client Manager

6. Advise Engineer of the identity and scope of services of any independent consultants employed by County to perform or furnish services in regard to the Project, including, but not limited to, cost estimating, project peer review, value engineering and constructability review.
7. Attend the pre-bid conference, bid opening, pre-construction conferences, construction progress and other job related meetings and Substantial Completion, final payment, and warranty inspections.
8. The County shall provide for mailing any required certified notification letters to the property owners, including the mailing costs, for notification for access to perform the scope of services.
9. The County shall pay all costs for permit fees and application fees.
10. The County shall pay for all costs of publishing the Advertisement for Bid.
11. The County shall provide for acquisition of all fee simple properties and easements for the project.

12. The County shall pay for all recording fees for fee simple properties and easements.
13. The County will provide a Resident Construction Observer for the pipelines and the eight (8) wells. The pipelines are identified as the raw water transmission mains (approx. 22,400 LF), the finished water mains (approx. 8,100 LF) and the concentrate force main (approx. 20,000 LF). This Resident Construction Observer shall be responsible for all observation activities including substantial and final inspections for the pipelines and the eight (8) wells.
14. The County will provide a geotechnical subconsultant to provide for geotechnical services needed for design activities and for material testing and geotechnical evaluations during construction.

XIII. Miscellaneous Provisions

1. Opinion of Probable Construction Costs: Engineer's opinion of probable construction costs is based on assumed labor costs and approximate quantities of material and equipment, and therefore is of a conditional character. Engineer cannot and does not guarantee the cost of work to be performed by others since market or bidding conditions can change at any time and changes in the scope or quality of the project may affect estimates. County waives and releases Engineer from any loss, liability, or claim arising out of or in any way related to Engineer's opinion of probable construction costs.
2. The attached McKim & Creed General Conditions 01-2011-1 shall be incorporated as part of this agreement.
3. The attached McKim & Creed hourly rate schedule shall be incorporated as part of this agreement. The hourly rate schedule is subject to change January 1st of each calendar year.

XIV. Compensation

Pre-Design Phase

Limited Topographic Survey	\$91,000	LS
Limited Geotechnical Evaluation Coordination	\$4,500	LS
Assistance for Three (3) Additional Test Wells.....	\$5,300	LS

30% Preliminary Design Phase \$102,000 LS

Final Design Phase \$1,510,900 LS

Bid Document Phase..... \$81,300 LS

Bidder Pre-qualification Phase..... \$19,700 LS

Bid & Award Phase..... \$90,000 LS

Construction Phase

Construction Administration	\$836,800	LS
Construction Observation WTP (Only)	\$666,800	Est

Special Inspections..... \$111,600 LS

Post-Construction Phase

System Startup & Commissioning	\$49,900	LS
Operator Training	\$29,000	LS
Record Drawings	\$46,400	LS
O&M Manual	\$109,300	LS
First Year Technical Assistance	\$103,000	Est

Special Services

Wetland Delineation, Survey & Mapping Allowance	\$53,000	Est
Easement Surveying & Platting Allowance	\$40,000	Est
Craven County Site Plan Submittal Allowance	\$36,000	Est
Phase 1 Environmental Site Assessment Allowance	\$11,700	Est
Hydraulic Modeling Raw Water Transmission System Allowance	\$34,000	Est
Hydraulic Modeling Finished Water Distribution System Allowance	\$90,000	Est
State Funding Assistance Allowance	\$24,500	Est

Total Estimated Compensation..... \$4,146,700

LS = Lump Sum, EST = Estimated fee but not guaranteed to be billed hourly

Compensation for services outlined above shall be either lump sum fee or on an hourly time and expense basis, as indicated. Invoicing will be made monthly at the estimated completion percentage of the work.



For Estimated Fee (Est) scope items, postage, subconsultants, and printing to be billed as reimbursable expenses at a cost multiplier of 1.15. Mileage to be billed at current IRS allowance. Company owned vehicles shall be billed at the McKim & Creed rate, currently \$0.85 per mile.

SCHEDULE

McKim & Creed understands the critical nature of this effort to the overall Water Treatment Facility Design project. As such this effort will be scheduled so that the treatment facility will be designed in time to allow construction to be completed by August 2016 assuming that the County issues the Notice to Proceed for this agreement by August 1, 2012. It should be noted that the project schedule is based on the design phase being implemented concurrently with the Environmental Assessment (EA) scope of work prior to the issuance of the FONSI in order to maintain the overall project schedule.

This proposal is valid for 60 days from the date of the proposal. If not accepted within that time, we would appreciate the opportunity to review the proposal for any revisions in scope, schedule, or fee that may be necessary.

If you have any questions or comments regarding this proposal or any other services we are providing for you, do not hesitate to call me.

Thank you for this opportunity to provide our proposal and we look forward to working with you on this project.

Sincerely,

Timothy Baldwin, PE
Executive Vice-President

Bryan Blake, PE
Vice-President

Attachments;
Attachment A Project Location Exhibit
M&C General Conditions
M&C Hourly Rate Schedule



APPROVED BY:

CRAVEN COUNTY

Mr. Jack Veit, County Manager

Date