

LEE COUNTY

NORTH CAROLINA

Committed Today for a Better Tomorrow

**REGULAR MEETING
OF THE
LEE COUNTY BOARD OF COMMISSIONERS**
106 HILLCREST DRIVE
SANFORD, NORTH CAROLINA 27330

August 20, 2018
6:00 P.M.

A G E N D A

CALL TO ORDER – Amy Dalrymple, Chair

INVOCATION – Commissioner Tim Sloan

PLEDGE OF ALLEGIANCE

I. ADDITIONAL AGENDA

II. APPROVAL OF CONSENT AGENDA (All items listed below are routine and will be approved by one motion. No separate discussion will be held except by a request of a member of the Board. Any item removed from the Consent Agenda will be considered individually as a part of the regular agenda).

- A. Minutes from the July 23, 2018 Regular Meeting. (Pages 1-7)
- B. Minutes from the July 23, 2018 Interlocal Committee Meeting. (Pages 8-11)
- C. Tax release and refund report for July 2018. (Pages 12-18)
- D. Request for approval from the Health Department for a proposed fee for the Liletta IUD. (Page 19)
- E. Request from the Solid Waste Division for approval of cargo van vehicle purchase in the amount of \$26,068 through the NC Sheriff's Association Vehicle Bid Contract. (Pages 20-30)
- F. Request from the General Services Department for the purchase of two pickup trucks in the amount of \$53,457.10 through the NC Sheriff's Association Vehicle Bid Contract. (Pages 31-49)
- G. Request for approval of Resolution to add Mount Joy Place to the NC DOT Road System. (Pages 50-58)
- H. Budget Amendment # 08/20/18/02. (Pages 59-60)
- I. Request for purchase of a 2019 Chevrolet Silverado 250 HD Truck for the Emergency Services Office. (Pages 61-71)
- J. Request from the Jail for the purchase of a new convection steamer in the amount of \$11,275.14. (Pages 72-74)
- K. Request from Marco Angeles of Angeles Construction to lease an office on the third floor of the Buggy Building. (Pages 75-77)

III. PRESENTATIONS

- A. Proclamation recognizing the Lee County Parks and Recreation 12 and Under All Stars for winning the Dixie Youth State Championship. – Chair Dalrymple (Pages 78-80)
- B. Presentation from Lee County Young Commissioner Angel Uy. – Angel Uy (Pages 81-82)

IV. PUBLIC COMMENTS

V. OLD BUSINESS

- A. Consideration of instructing staff to enter into negotiations and a fee arrangement with a national law firm to represent the County in the opioid litigation. – Whitney Parrish (Page 83)
- B. Consideration of an upset bid offer for the purchase of surplus property located on Lemon Springs Road, PIN 9549-17-7784-00. – Whitney Parrish (Pages 84-88)
- C. Parks and recreation report on project and bonds. – John Crumpton (Pages 89-202)
- D. Sanford Area Growth Alliance (SAGA) CEO report to the Board. – Joy Thrash

VI. NEW BUSINESS

- A. Discussion regarding role of ADA Committee. – Chair Dalrymple (Pages 203-207)
- B. Consideration of reappointment of Walter Ferguson to the Sandhills Mental Health Board. – Jennifer Gamble (Page 208)
- C. Consideration of reappointment of Cy Richardson as the Fire Chief’s Association representative on the Fire Advisory Board. – Jennifer Gamble (Page 209)
- D. Consideration of appointment of Emilia Guerrero as an alternate on the Parks and Recreation Commission. – Jennifer Gamble (Page 210)

VII. MANAGERS’ REPORTS

- A. July 2018 Financial Report. – Lisa Minter (Pages 211-213)
- B. County Manager’s Monthly Report for August 2018. – John Crumpton (Pages 214-430)

VIII. COMMISSIONERS’ COMMENTS

ADJOURN

LEE COUNTY

Committed Today for a Better Tomorrow

ITEM #:

II. A.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Minutes from the July 23, 2018 Regular Meeting

DEPARTMENT: Governing Body

CONTACT PERSON: Jennifer Gamble, Clerk to the Board

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Approve Minutes from the July 23, 2018 Regular Meeting
BUDGET IMPACT	N/A
ATTACHMENTS	"Draft" copy of the July 23, 2018 Minutes
PRIOR BOARD ACTION	N/A
RECOMMENDATION	Approve Minutes from the July 23, 2018 Regular Meeting
SUMMARY	

A "draft" copy of the Minutes from the July 23, 2018 Regular Meeting have been prepared for approval. Attachments referenced in the Minutes are available for review in the Clerk's Office located at 408 Summit Drive, Sanford, NC. Once approved, Minutes will be recorded at the Lee County Register of Deeds Office.

LEE COUNTY

NORTH CAROLINA

Committed Today for a Better Tomorrow

REGULAR MEETING
OF THE
LEE COUNTY BOARD OF COMMISSIONERS
106 HILLCREST DRIVE
SANFORD, NORTH CAROLINA 27330

JULY 23, 2018

The regular meeting of the Board of Commissioners for the County of Lee, State of North Carolina, convened at 6:00 P.M. in the Commissioners Room, First Floor, Lee County Government Center, 106 Hillcrest Drive, Sanford, North Carolina, on said date. Commissioners present when the meeting was called to order were Amy M. Dalrymple, Kevin C. Dodson, Dr. Andre Knecht, Larry "Doc" Oldham, Robert T. Reives, Cameron W. Sharpe, and Timothy S. Sloan. Staff in attendance included County Manager John Crumpton, Assistant County Manager/Finance Director Lisa Minter, County Attorney Whitney Parrish, and Deputy County Attorney/Clerk to the Board Jennifer Gamble.

Chair Dalrymple called the meeting to order and the following business was transacted:

Chris Kelly, Salvation Army Service Center Director, delivered the invocation.

The Pledge of Allegiance was recited.

Mr. Kelly voiced a need on behalf of the Salvation Army for monetary and food donations.

I. ADDITIONAL AGENDA

The Board considered additions to the *Agenda*. Commissioner Reives requested that Items A, B, E, and I move from *New Business* to *Consent*, that Item H under *New Business* move to Item B under *Old Business*, and to remove Items C and D from *New Business*. With no further changes/additions requested, Commissioner Reives moved to approve the *Agenda* as amended. Upon a vote, the results were as follows:

Aye: Dalrymple, Dodson, Knecht, Oldham, Reives, Sharpe, Sloan
Nay: None

The Chair ruled the motion had carried unanimously.

II. APPROVAL OF CONSENT AGENDA

The Board considered changes to the *Consent Agenda*. Commissioner Reives moved to approve the *Consent Agenda* as presented, which consisted of the following items:

- A. Minutes from the June 18, 2018 Regular Meeting.
- B. Tax release and refund report for June 2018.
- C. Request for approval of the use of Medicaid Cost Settlement Funds for the purchase of an automated external defibrillator (AED) for the Health Department.
- D. Request for approval of additional federal revenue for WIC's Breast Feeding FY 18-19 Budget.
- E. Request for renewal of Lee County Libraries NC Cardinal Contract for FY 2018-2019.
- F. Request for acceptance of WIC funding for an advertisement to be displayed at Frank Theaters-Spring Lane Cinemas.
- G. Request from the Health Department to participate in the Perfect Exposure Workshop Animal Control Unit.
- H. Request for approval of State Contract vehicle purchase for the Lee County Sheriff's Office.
- I. Request for approval of State Contract purchase of eight vehicles for the Lee County Sheriff's Office.
- J. Request for approval of vehicle purchase for Environmental Health.
- K. Request for approval of Microsoft Enterprise Software Payment.
- L. Request for approval of annual Munis software maintenance renewal County ERP system.
- M. Budget Amendment # 07/23/18/01.
- N. Request for approval of proposed Clinic fee increases.
- O. Request for approval of bid award to Dail Mechanical, Inc. for an HVAC equipment replacement at the McSwain Center.
- P. Request for approval of bid for building and installation of a pre-engineered metal building system at the McSwain Center.
- Q. Request for approval of County Purchasing and Contracting Policy.

Upon a vote, the results were as follows:

Aye: Dalrymple, Dodson, Knecht, Oldham, Reives, Sharpe, Sloan
Nay: None

The Chair ruled the motion had carried unanimously.

III. PUBLIC COMMENTS

Pursuant to General Statute § 152A-52.1, Chair Dalrymple opened the floor for *Public Comments*. No one spoke during the public comments section of the meeting.

IV. PRESENTATIONS FROM FIRMS PARTICIPATING IN OPIOID LITIGATION

A. Presentation from Simmons, Hanley, Conroy/Crueger Dickinson

Amy Garret with Simmons, Hanley, Conroy, presented in response to a request for proposals with information on the history and legal theories associated with the opioid litigation. There are three main firms involved in this litigation team. Ms. Garret provided a Powerpoint Presentation with information on the Opioid litigation including statistics, the parties affected by it, and the cause. The defendants of the lawsuits include manufacturers and distributors of opioid medications. There are hundreds of Counties that have filed suit at this point. North Carolina plaintiffs will take part in the federal multi-district litigation (MDL). Cases are first filed in federal court and then generally transferred to the MDL. There are two tracks – the settlement track and the litigation track. The proposed legal fee is based on a 25% contingency fee arrangement, with costs capped at 10%. No action was taken.

B. Presentation from McHugh Fuller Law Group

Chip Post with Post, Foushee, Patton Law Firm, began the presentation by introducing himself. The national firms have chosen to retain local counsel to be the point of contact in places they represent. Amy Quezon, attorney with McHugh Fuller Law Group, provided information regarding the litigation. The contingency fee and costs are the same at a 25% contingency fee arrangement with costs capped at 10%. There are five main firms involved in litigation team not including local counsel. Paul Farrell is the lead attorney of the litigation team. The first case will be tried in Ohio in March 2019. No action was taken.

V. OLD BUSINESS

A. Consideration of an offer to purchase property located on Hooker Street, Sanford, NC, PIN 9642-54-4884-00

At the June 18, 2018 Regular Meeting, the Board of Commissioners declared property located on Hooker Street, Sanford, NC, PIN 9642-54-4884-00 as surplus, then authorized staff to accept the initial offer of \$800.00 from Brick Capital Community Development Corporation and advertise the offer in *The Sanford Herald*. The offer was advertised in *The Sanford Herald* on July 5, 2018. There were no upset bids received. Commissioner Oldham moved to accept the offer from BCCDC as final and authorize the Chair to sign any associated documents, a copy of which is attached to these minutes and by this reference made a part hereof. Upon a vote, the results were as follows:

Aye: Dalrymple, Dodson, Knecht, Oldham, Reives, Sharpe, Sloan
Nay: None

The Chair ruled the motion had carried unanimously.

B. Consideration of an offer to purchase property located on Lemon Springs Road, Sanford, NC, PIN 9549-17-7784-00.

County Attorney Whitney Parrish stated that Lee County foreclosed on property located at PIN 9549-17-7784-00 in 2017. Currently, \$6,221.95 is owed on the property, which includes taxes and attorney fees. The current tax value of the property is \$13,000. Charlie

Martin has submitted an offer to purchase the property for \$1,000. Mr. Martin has submitted the requisite 5% deposit and advertising costs. If the commissioners approve the sale of the property, it will be sold through the upset bid procedure. Commissioner Reives moved to declare the property located on Lemon Springs Road at PIN 9549-17-7784 as surplus and authorize staff to accept the initial offer of \$1,000 from Charlie Martin and to advertise the offer in *The Sanford Herald*, a copy of the Resolution Authorizing the Sale of the Property is attached to these minutes and by this reference made a part hereof. Upon a vote, the results were as follows:

Aye: Dalrymple, Dodson, Knecht, Oldham, Reives, Sharpe, Sloan
Nay: None

The Chair ruled the motion had carried unanimously.

VI. NEW BUSINESS

- A. Request for approval of proposed Clinic fee increases. – Moved to *Consent*
- B. Request for approval of bid award to Dail Mechanical, Inc. for an HVAC equipment replacement at the McSwain Center. – Moved to *Consent*
- C. Request for approval of bid award for HVAC equipment replacement for the Gordon Wicker Room located at the Lee County Government Center. - Removed
- D. Request for approval of bid award for HVAC equipment replacement for the Board of Elections. - Removed
- E. Request for approval of bid for building and installation of a pre-engineered metal building system at the McSwain Center. – Moved to *Consent*
- F. Request for acceptance of Tax Collector's Settlement, approval of resolution, and direct charging Tax Collector with Collecting 2018 taxes.

Tax Administrator Mary Yow stated that each year, the Tax Collector must make settlement with the governing board per NCGS 105-373. As part of the settlement, the governing board charges the Tax Collector with collecting taxes for the current fiscal year and prior fiscal years with unpaid taxes. This "charge" gives the Tax Collector authority to use enforced collection measures and it gives legal notice that the tax lien is first in priority. A report of all 2017 unpaid, real and personal property taxes is available in the clerk's office and has been posted to the Commissioners website for review. Commissioner Reives moved to accept settlement. Upon a vote, the results were as follows:

Aye: Dalrymple, Dodson, Knecht, Oldham, Reives, Sharpe, Sloan
Nay: None

The Chair ruled the motion had carried unanimously.

Commissioner Reives moved to adopt the Resolution Approving the Tax Collector's Annual Settlement for Fiscal year 2018 and Prior Years, a copy of which is attached to these minutes and by this reference made a part hereof. Upon a vote, the results were as follows:

Aye: Dalrymple, Dodson, Knecht, Oldham, Reives, Sharpe, Sloan
Nay: None

The Chair ruled the motion had carried unanimously.

Commissioner Reives moved to Charge Tax Collector with collecting 2018 taxes, a copy of which is attached to these minutes and by this reference made a part hereof. Upon a vote, the results were as follows:

Aye: Dalrymple, Dodson, Knecht, Oldham, Reives, Sharpe, Sloan
Nay: None

The Chair ruled the motion had carried unanimously.

G. Park Master Plans Public Meeting Summary

County Manager John Crumpton provided a presentation on the Park Master Plan process and results. Mr. Crumpton stated that he will be getting with landscape architects to create a menu and cost estimates to begin the decision making process. No action was taken.

H. Consideration of an offer to purchase property located on Lemon Springs Road, Sanford, NC, PIN 9549-17-7784-00. – Moved to *Old Business*

I. Request for approval of County Purchasing and Contracting Policy. – Moved to *Consent*

VII. MANAGERS' REPORTS

A. Financial Report for June 2018

Assistant County Manager/Finance Director Lisa Minter provided the monthly financial report for June 2018. No action was taken.

B. County Manager's Monthly Report for July 2018

County Manager John Crumpton presented the Monthly Manager's Report for July 2018, a copy of which is attached to these minutes and by this reference made a part hereof. No action was taken.

VIII. COMMISSIONERS' COMMENTS

ADJOURNMENT

With no further business to come before the Board, Commissioner Oldham moved to adjourn the meeting. Upon a vote, the results were as follows:

Aye: Dalrymple, Dodson, Knecht, Oldham, Reives, Sharpe, Sloan
Nay: None

The Chair ruled the motion had carried unanimously and the meeting adjourned at 8:05 p.m.

Amy M. Dalrymple, Chair
Lee County Board of Commissioners

ATTEST:

Jennifer Gamble, Clerk to the Board

ITEM #:
II. B.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Minutes from the July 23, 2018 Interlocal Committee Meeting

DEPARTMENT: Governing Body

CONTACT PERSON: Jennifer Gamble, Clerk to the Board

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Approve Minutes from the July 23, 2018 Interlocal Committee Meeting
BUDGET IMPACT	N/A
ATTACHMENTS	"Draft" copy of the July 23, 2018 Interlocal Committee Meeting Minutes
PRIOR BOARD ACTION	N/A
RECOMMENDATION	Approve Minutes from the July 23, 2018 Interlocal Committee Meeting
SUMMARY	

A "draft" copy of the Minutes from the July 23, 2018 Interlocal Committee Meeting have been prepared for approval. Once approved, Minutes will be recorded at the Lee County Register of Deeds Office.



Committed Today for a Better Tomorrow

**JOINT MEETING OF THE
INTERLOCAL SUB-COMMITTEE
FOR THE
COUNTY OF LEE, CITY OF SANFORD
AND
TOWN OF BROADWAY**

July 23, 2018

The Joint Interlocal Sub-Committee appointed to study Interlocal Agreements and other items of interest between the County of Lee, City of Sanford, and Town of Broadway, met at 11:00 a.m. in the West End Conference Room located at City Hall, 225 E. Weatherspoon Street, Sanford, North Carolina on said date. Commissioner appointed members present were Amy M. Dalrymple, Larry "Doc" Oldham, and Timothy S. Sloan. County staff in attendance included County Manager John Crumpton, Assistant County Manager/Finance Director Lisa Minter, County Attorney Whitney Parrish, and Deputy County Attorney/Clerk to the Board Jennifer Gamble.

City of Sanford Mayor Chet Mann called the meeting to order and the following items were discussed:

- I. Update on Kiwanis Children's Park/Kiwanis Family Park – County Manager John Crumpton provided an update regarding the Lee County Park Master Plan process and the anticipated improvements to Kiwanis Children's Park. City Manager Hal Hegwer stated that bids for the splash pad and improvements at Kiwanis Family Park have been submitted. Splash pad and upgrades to the facility include parking expansion, renovation of existing bathrooms, and construction of new bathrooms/changing rooms. The project is anticipated to be completed by 2019.
- II. Tim Blodgett Soccer Park – Tim Blodgett recently contacted the County Manager with concerns regarding a lack of available regulation size soccer fields. Mr. Crumpton stated that soccer fields were a concern raised during the County's Park Master Plan process. Several ideas were discussed including a stadium at an estimated \$3-4 million, a multi-sport complex previously discussed at an estimated \$18 million, and whether the Board of Education may be able to assist by permitting the use of school fields. While cost and return on investment were concerns raised in response to the ideas expressed, City and County officials agreed to continue exploring options to increase the number of soccer fields.
- III. Tax Foreclosure Process/Nuisance Properties – City Manager Hal Hegwer stated that there is a growing list of nuisance properties occurring within the City limits which are causing complaints and decaying neighborhoods. He suggested a proactive approach by speeding up the foreclosure process to gain access to the properties. Mayor Mann expressed ideas regarding redevelopment of areas to improve neighborhoods and address safety concerns.
- IV. East Sanford/Redevelopment/Opportunity Zones – Planning and Community Development Director Marshall Downey provided a presentation regarding strategies to revitalize economically depressed areas. The presentation included a map identifying potential areas

for focused improvements. Mayor Mann stated that the City is looking at models for redevelopment to revitalize depressed areas and address issues such as homelessness and affordable housing. Opportunity zones are areas identified as in need of improvement that are incentivized to attract investors to make improvements in exchange for capital gains credits. Two areas in Lee County were submitted to be considered for designation as opportunity zones – Jonesboro and East Sanford. There are two phases involved in the redevelopment process. Phase I is a preliminary predevelopment analysis, which results in a recommended strategy and identified sites. Phase II is a site-specific predevelopment analysis. City staff are working with the owner of Kendale Plaza and a third party developer in an effort to achieve improvements at the Kendale site. An organization known as Third Wave Housing out of Winston-Salem, NC expressed interest in redeveloping this area as a multi-family mixed-use tax credit project.

- V. Unified Development Ordinance – Planning and Community Development Director Marshall Downey provided a presentation regarding the status of the Land Use Plan and discussed the next steps. The final Land Use Plan is going before the Joint Planning Commission on Thursday, July 26, 2018. The adopted plan will create a vision and blueprint, which will mold changes to the Unified Development Ordinance. Planning staff recommend seeking third party assistance through a consultant that will work with staff and the Joint Planning Commission as the steering committee. The cost to hire a consultant is estimated between \$100,000-\$150,000. The update is projected to take about two years to complete.
- VI. Update on S3 Housing Connect Homelessness Project – Community Development Manager Karen Kennedy provided an update on the S3 Connect Homelessness Project. The goal is to work with the Bread of Life to renovate the old McIver School to provide services to include a day shelter, emergency shelter, potential affordable housing, and permanent support of housing. Community Development Block Grant funds may be available for environmental assessments.
- VII. Sanford Tourism Development Authority – City of Sanford Management Analyst Holly Marosites provided an update regarding the Sanford Tourism Development Authority. The TDA have adopted a budget and selected a marketing firm.
- VIII. 2020 Census and Community-Wide Strategy for Accurate Count– City Council Woman Rebecca Salmon stated that a state demographer spoke at a recent Triangle J Council of Government meeting about the census. He stated that an undercount that occurred in the last census resulted in at least one missed out Congress seat. Strategic Services Director Don Kovasckitz provided that the Census address program has been completed, which identifies the location of residential structures. The census will capture information based on where people are physically present on April 1, 2020.
- IX. Update on Colon Road Water Project – County Manager John Crumpton stated that construction is complete and all homes involved are currently receiving public water service. Upon approval of the final change order, the project was completed under budget.
- X. Hydrant Water Meter Policy for Agriculture Users – Lee County Commissioner Tim Sloan proposed consideration of a hydrant meter policy for agriculture purposes. He provided Harnett County's policy as an example, which offers daily, monthly, and yearly rentals of hydrant meters.
- XI. Outline for Optimizing Interlocal Strategies – City Councilman Sam Gaskins recommended increased communications between the City and County to improve project planning and budget discussions in areas of joint interest.

The meeting adjourned at 1:36 p.m.

ATTEST:

Amy M. Dalrymple, Chair
Lee County Board of Commissioners

Jennifer Gamble, Clerk to the Board



ITEM #:
II. C.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Tax Release and Refund Report for July 2018

DEPARTMENT: Tax Administration

CONTACT PERSON: Mary Yow, Tax Administrator

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Approval of Tax Releases and Refunds for July 2018
BUDGET IMPACT	No
ATTACHMENTS	<ul style="list-style-type: none"> 1) Release Code Descriptions 2) General Statute 105-381 (b) 3) Personal Property Abatement Report 4) Real Property Abatement Report 5) Waste Fee Abatement Report
PRIOR BOARD ACTION	N/A
RECOMMENDATION	Approve Tax Release and Refunds for July 2018.
SUMMARY	

A release or refund is necessary to adjust or correct an existing tax bill that is in error. North Carolina General Statute 105-381(b) requires the governing body to determine the release or refund of a tax.

RELEASE CODE DESCRIPTIONS

1	ALLOWABLE EXEMPTION NOT APPLIED
2	LAND USE DEFERMENT NOT APPLIED OR ABATEMENT MADE AFTER BILLING
3	PROPERTY DOUBLE LISTED BY TAXPAYER OR TAX OFFICE
4	TAX SITUS OF PROPERTY OUTSIDE JURISDICTION
5	REAL PROPERTY DATA IN ERROR
6	PERSONAL PROPERTY DATA IN ERROR
7	PROPERTY LISTED TO INCORRECT OWNER
8	LAST LIST PENALTY
9	TAXPAYER LISTED PERSONAL PROPERTY THEY DID NOT OWN
10	PROPERTY VALUE APPEALED TO ASSESSOR, BOARD OF E&R OR PROPERTY TAX COMMISSION
11	BUSINESS PERSONAL PROPERTY ASSESSMENT: NO LONGER OWNED OR OUT OF BUSINESS
12	PERSONAL PROPERTY SOLD PRIOR TO JAN 1ST.
13	TAX FORECLOSURE SALE
T	TAXPAYER
TO	TAX OFFICE
LR	LAND RECORDS
TA	TAX APPRAISAL
TOS	TAX OFFICE SOFTWARE
TFS	TAX FORECLOSURE SALE
GP	GARBAGE PICKUP
VA	VACANT OR ADJUSTMENT FOR WASTE FEE
CY	CITY OF SANFORD OR TOWN OR BROADWAY
B	BANKRUPTCY SETTLEMENT
A	AUDIT APPEAL OR ERROR

N.C. Gen. Stat. § 105-381

General Statutes of North Carolina
Copyright 2014 by Matthew Bender & Company, Inc.
a member of the LexisNexis Group.
All rights reserved

*** Statutes current through the 2014 Regular Session ***

CHAPTER 105. TAXATION
SUBCHAPTER 02 . LISTING, APPRAISAL, AND ASSESSMENT OF PROPERTY AND COLLECTION
OF TAXES ON PROPERTY
ARTICLE 27. REFUNDS AND REMEDIES

Go to the North Carolina Code Archive Directory

N.C. Gen. Stat. § 105-381 (2014)

§ 105-381. Taxpayer's remedies

(a) Statement of Defense. -- Any taxpayer asserting a valid defense to the enforcement of the collection of a tax assessed upon his property shall proceed as hereinafter provided.

(1) For the purpose of this subsection, a valid defense shall include the following:

- a. A tax imposed through clerical error;
- b. An illegal tax;
- c. A tax levied for an illegal purpose.

(2) If a tax has not been paid, the taxpayer may make a demand for the release of the tax claim by submitting to the governing body of the taxing unit a written statement of his defense to payment or enforcement of the tax and a request for release of the tax at any time prior to payment of the tax.

(3) If a tax has been paid, the taxpayer, at any time within five years after said tax first became due or within six months from the date of payment of such tax, whichever is the later date, may make a demand for a refund of the tax paid by submitting to the governing body of the taxing unit a written statement of his defense and a request for refund thereof.

(b) Action of Governing Body. -- Upon receiving a taxpayer's written statement of defense and request for release or refund, the governing body of the taxing unit shall within 90 days after receipt of such request determine whether the taxpayer has a valid defense to the tax imposed or any part thereof and shall either release or refund that portion of the amount that is determined to be in excess of the correct tax liability or notify the taxpayer in writing that no release or refund will be made. The governing body may, by resolution, delegate its authority to determine requests for a release or refund of tax of less than one hundred dollars (\$ 100.00) to the finance officer, manager, or attorney of the taxing unit. A finance officer, manager, or attorney to whom this authority is delegated shall monthly report to the governing body the actions taken by him on requests for release or refund. All actions taken by the governing body or finance officer, manager, or attorney on requests for release or refund shall be recorded in the minutes of the governing body. If a release is granted or refund made, the tax collector shall be credited with the amount released or refunded in his annual settlement.

Personal Property Abatement Report

From 7/1/2018 To 7/31/2018

	Value	County Tax	County Penalty	District Tax	District Penalty	Total	Release Code
2018							
Release							
ALBERTO, EDUARDO	\$375.00	\$2.98	\$0.30	\$2.33	\$0.23	\$5.84	T-12
BRUEHL, KEITH ALAN	\$1,871.00	\$14.87	\$1.49	\$2.10	\$0.21	\$18.67	T-12
CAPE FEAR GNA	\$8,558.00	\$68.04	\$0.00	\$53.06	\$0.00	\$121.10	T-9
CHAPMAN, JEFFREY ALAN	\$1,300.00	\$10.34	\$0.00	\$1.63	\$0.00	\$11.97	T-10
CZERWINSKI, STEVEN M	\$11,670.00	\$92.78	\$0.00	\$11.20	\$0.00	\$103.98	T-10
EDWARDS, BRIAN JASON	\$1,054.00	\$8.38	\$0.84	\$6.53	\$0.65	\$16.40	T-12
GREATAMERICAN FINANCIAL	\$16,026.00	\$127.41	\$0.00	\$99.36	\$0.00	\$226.77	T-9
HOCKADAY, MELISSA DAWN	\$500.00	\$3.98	\$0.40	\$0.48	\$0.05	\$4.91	T-12
LAWRENCE, MICAH STEPHEN	\$958.00	\$7.62	\$0.76	\$5.94	\$0.59	\$14.92	T-12
LETT, TREASURE R	\$6,540.00	\$51.99	\$0.00	\$6.28	\$0.00	\$58.27	T-3
SMART ENERGY SOLUTIONS,	\$2,520.00	\$20.03	\$0.00	\$2.44	\$0.00	\$22.47	T-3
STAVERMAN, HEIDI	\$13,000.00	\$103.35	\$10.34	\$80.60	\$8.06	\$202.35	T-12
THOMAS, JUDITH S.	\$8,320.00	\$66.14	\$6.61	\$7.24	\$0.72	\$80.72	T-10
THOMPSON, BUDDY	\$1,880.00	\$14.95	\$1.49	\$11.66	\$1.17	\$29.27	T-12
VALENTE CARREMO, JANETH	\$8,670.00	\$68.93	\$6.89	\$8.32	\$0.83	\$84.98	T-3
WICKER, TIMOTHY GERALD	\$12,739.00	\$101.28	\$10.13	\$18.47	\$1.85	\$131.73	T-12
WITT, DELMAR WAYNE	\$500.00	\$3.98	\$0.00	\$3.10	\$0.00	\$7.08	T-12
WOOD, RODNEY G	\$27,730.00	\$220.45	\$22.05	\$26.62	\$2.66	\$271.78	T-3
WOODS, HAZEL	\$500.00	\$3.98	\$0.40	\$0.48	\$0.05	\$4.91	T-12
Release Total :	\$124,711.00	\$991.48	\$61.70	\$347.84	\$17.07	\$1,418.12	

2017

Release							
CRUZ, NOEL AMBROSIO	\$2,400.00	\$19.08	\$1.91	\$3.00	\$0.30	\$24.29	T-3
HOCKADAY, MELISSA DAWN	\$558.00	\$4.44	\$0.44	\$0.52	\$0.05	\$5.46	T-12
WORNIM, SAMUEL	\$20,750.00	\$164.96	\$16.50	\$124.50	\$12.45	\$318.41	T-4
Release Total :	\$23,708.00	\$188.48	\$18.85	\$128.02	\$12.80	\$348.16	

Personal Property Abatement Report

From 7/1/2018 To 7/31/2018

	Value	County Tax	County Penalty	District Tax	District Penalty	Total	Release Code
2016							
Release							
ALEMAN, HARVIN MIGUEL	\$14,900.00	\$118.46	\$11.85	\$89.40	\$8.94	\$228.65	T-12
CRUZ, NOEL AMBROSIO	\$2,580.00	\$20.51	\$2.05	\$3.23	\$0.32	\$26.11	T-3
Release Total :	\$17,480.00	\$138.97	\$13.90	\$92.63	\$9.26	\$254.76	
2015							
Release							
CRUZ, NOEL AMBROSIO	\$2,760.00	\$21.94	\$2.19	\$3.45	\$0.35	\$27.93	T-3
Release Total :	\$2,760.00	\$21.94	\$2.19	\$3.45	\$0.35	\$27.93	
2014							
Release							
CRUZ, NOEL AMBROSIO	\$2,880.00	\$20.74	\$2.07	\$3.40	\$0.34	\$26.55	T-3
Release Total :	\$2,880.00	\$20.74	\$2.07	\$3.40	\$0.34	\$26.55	

Real Property Abatement Report

From 7/1/2018 To 7/31/2018

	Value	County	City	Fire	Total	Release Code
2018						
Release						
OTIS, ROBERT	\$45,000.00	\$357.75	\$0.00	\$43.20	\$400.95	T-1
SMITH, ADARYL J.	\$45,000.00	\$357.75	\$279.00	\$0.00	\$636.75	T-1
Release Totals:	\$90,000.00	\$715.50	\$279.00	\$43.20	\$1,037.70	

Waste Fee Abatement Report

From 7/1/2018 To 7/31/2018

Solid Waste Fees

Release Code

2018

Release

SSW - City Refuge

LEMMOND, JR, R B

\$450.00

SSW - City Refuge Totals:

\$450.00

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

ITEM #:
II. D.

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Proposed Fee for the Liletta Intrauterine Device (IUD)

DEPARTMENT: Health Department

CONTACT PERSON: Heath Cain

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	This is a request for the Board of Commissioners to approve the following proposed fee for the Liletta IUD.
BUDGET IMPACT	By approving this proposed fee, the Lee County Health Department can recoup costs for providing this IUD to our Family Planning clients
ATTACHMENTS	N/A
PRIOR BOARD ACTION	None
RECOMMENDATION	The health department respectfully requests the County Commissioners to approve the proposed fee for the Liletta IUD.
SUMMARY	

This will allow the Health Department to provide the Liletta IUD to our Family Planning Clients. The fee will be the following if approved:

Liletta Intrauterine Device (IUD) Fee = \$47.50
(340b acquisition cost)

This fee was approved by the Board of Health July 18th 2018.



ITEM #:
II. E.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Approval to purchase one (1) Cargo Van from NC Sheriff's Association Vehicle Bid Contract

DEPARTMENT: General Services/Solid Waste Division

CONTACT PERSON: Joseph T. Cherry, Solid Waste Superintendent

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Approve Capital Purchases in the amount of \$26,068.00 to purchase one (1) cargo van from NC Sheriff's Association Vehicle Bid for the Solid Waste Division.
BUDGET IMPACT	Funds of \$30,000.00 are included in the FY 2018-19 Solid Waste Budget.
ATTACHMENTS	Vehicle Quote per NC Sheriff's Association Vehicle Bid 18-04-0912 NCSA Vehicle Procurement Program Specification Award Agreement
PRIOR BOARD ACTION	NA
RECOMMENDATION	Approve Capital Purchases in the amount of \$26,068.00 to purchase one (1) cargo van from NC Sheriff's Association Vehicle Bid for the Solid Waste Division.
SUMMARY	

General Services' Solid Waste Division requests approval to purchase the following vehicle on NC Sheriff's Association Vehicle Bid 18-04-0912 from Modern Nissan, LLC in Winston Salem, NC:

2018 Nissan NV Cargo Van NV2500 HD in the amount of \$26,068.00

This truck will replace Vehicle #1163 a 1998 Ford E350 Cargo Van with approximately 215,393 miles. Said van was totaled in an accident.

North Carolina Sheriffs' Association
Vehicle Procurement Program
Specification Award Agreement

Police Rated, Administrative, Utility Vehicles,
Trucks & Vans
Bid 18-04-0912


SPECIFICATION NUMBER 403

2018 Nissan NV Cargo 2500SV Standard Roof
FOR ZONES: APPALACHIA; DOGWOOD; CARDINAL,
LONLEAF PINE

We are pleased to announce the North Carolina Sheriffs' Association has successfully completed its statewide competitive award for vehicles effective October 2, 2017.

Congratulations, your dealership has won the award for the above specification number based on the lowest and best bidder criteria set forth in the North Carolina Sheriffs' Association's Solicitation for Bids and Contract Terms and Conditions.

By the award of this contract based on your dealership's bid for Solicitation Number 18-04-0912, all terms and conditions set forth in the Solicitation for Bids and Contract Terms and Conditions are incorporated herein by reference and agreed to by the Contractor and the North Carolina Sheriffs' Association.



Signature of Authorized Representative

JOSEPH JOY

Printed Name of Authorized Representative

Modern Nissan, LLC

Contractor/Dealership Name (Please Print)

10/2/17

Date



Signature of NCSA Contract Administrator

Jason D. Bennett

Printed Name of NCSA Contract Administrator

10/2/17

Date



NCSA BID
18-04-0912
NISSAN
SPEC # 403

5795 University Parkway
Winston-Salem, NC 27105
(336) 767-8260
www.ModernAuto.com

A Member of the MODERN AUTOMOTIVE NETWORK

Purchase/Lease Agreement: Buyer(s) offers to purchase or lease the selected motor vehicle on the terms set forth below and on the back of this Purchase/Lease Agreement:

DATE: 08/08/2018 SALES PERSON: Joe Joy NO: 21435 SALES PERSON: NO:

BUYER: Lee County General Services DEAL #

CO-BUYER:

ADDRESS: 805 S 5th St RES PHONE: BUS. PHONE: (919) 718-4622

CITY: Sanford STATE: NC CELL PHONE:

COUNTRY: Lee ZIP: 27330 EMAIL ADDRESS: joseph.cherry@leecountync.gov

SELECTION: NEW USED TRADE IN:

YEAR: 2018	MAKE: Nissan	MODEL: NV Cargo NV2500	BODY STYLE: Cargo Van	YEAR #1:	MAKE:	MODEL:	MILES:
------------	--------------	------------------------	-----------------------	----------	-------	--------	--------

SERIAL NO. 1N6BFOKY9JN804342 SERIAL NO. STOCK #:

STOCK NO. 2N53587	COLOR: Glacier White	MILES:	YEAR #1:	MAKE:	MODEL:	MILES:
-------------------	----------------------	--------	----------	-------	--------	--------

SLS MGR.: BUS MGR.: SERIAL NO. STOCK #:

RETAIL PRICE:	\$32,420.00	TOTAL PRICE	\$29,359.00
Floor Mats	\$95.00	ACCESSORIES	\$1,659.00
Rear Glass	\$190.00	LESS TRADE-IN ALLOWANCE	\$0.00
Spray In Bed Liner	\$799.00	TOTAL	\$31,018.00
Four Corner Strobe Lights	\$575.00	INVOICING & SERVICES	\$0.00
		HIGHWAY USE TAX	\$0.00
		TITLE - TAG - REGISTRATION FEES	\$0.00
		OPTIONAL ELECTRONIC TITLING FEE	
		PAYOFF	\$0.00
		SERVICE CONTRACTS	
		SERVICE CONTRACT TAX	
		SUBTOTAL	\$31,018.00
		DOWN PAYMENT	
		REBATE	\$4,950.00
		BALANCE DUE	\$26,068.00

This document and all of the terms, conditions and information contained herein are intended solely for the purpose of informal documentation between prospective buyer/lessee and Modern, hereinafter referred to as the "Parties," and shall not be considered "final" or binding upon the Parties under any circumstances whatsoever. Furthermore, no third-party should rely on this document as representative of final terms or conditions of any transaction between the Parties. Any reference herein to "less," "down payment," "trade-in allowance," "taxes," "service contracts," "F&I products," "balance due," etc., are informal, non-binding upon the Parties, and may contain errors.

BUYER'S SIGNATURE: ✓ _____

CO-BUYER'S SIGNATURE: ✓ _____

BILL OF SALE Revised (2/15)

Authorized Dealer Signature: ✓ _____

Prepared For:
 Joe Cherry
 Lee County General Services
 805 S 5th St
 Sanford, NC 27330
 Phone: (919) 718-4622
 Email: joseph.cherry@leecou
 ntync.gov

Prepared By:
 Joe Joy
 Modern Nissan
 5795 University Parkway
 Winston- Salem, NC 27105
 Phone: (336) 767-8260
 Fax: (336) 744-213
 Email: jjoy@modemauto.com

2018 Retail Nissan NV Cargo NV2500 HD Standard Roof V6 SV 61218

SELECTED MODEL & OPTIONS

SELECTED MODEL - 2018 Retail 61218 NV2500 HD Standard Roof V6 SV

<u>Code</u>	<u>Description</u>
61218	2018 Nissan NV Cargo NV2500 HD Standard Roof V6 SV

SELECTED VEHICLE COLORS - 2018 Retail 61218 NV2500 HD Standard Roof V6 SV

<u>Code</u>	<u>Description</u>
-	Interior: No color has been selected.
-	Exterior 1: No color has been selected.
-	Exterior 2: No color has been selected.

SELECTED OPTIONS - 2018 Retail 61218 NV2500 HD Standard Roof V6 SV

CATEGORY

<u>Code</u>	<u>Description</u>
PRIMARY PAINT	
QAK	GLACIER WHITE
PAINT SCHEME	
—	STANDARD PAINT
SEAT TRIM	
K	GRAY, CLOTH SEAT TRIM -inc: water-repellant feature w/vinyl wear bolsters
ADDITIONAL EQUIPMENT	
GLA	[F01] REAR DOOR GLASS PACKAGE -inc: Rear Door Windows w/Privacy Glass, Interior Rearview Mirror, Rear Window Defroster
50S	[C03] 50 STATE EMISSIONS
PORT INSTALLED OPTIONS	
FLO	[L92] ALL SEASON RUBBER FLOOR MATS (PIO)
DEALER INSTALLED OPTIONS	
.SPR	Spray In Bed Liner

Report content is based on current data version referenced. Any performance-related calculations are offered solely as guidelines. Actual unit performance will depend on your operating conditions.

GM AutoBook, Data Version: 538.0, Data updated 4/10/2018
 © Copyright 1988-2012 Chrome Data Solutions, LP. All rights reserved.

Customer File:

Prepared For:
Joe Cherry
Lee County General Services
805 S 5th St
Sanford, NC 27330
Phone: (919) 718-4622
Email: joseph.cherry@leecou
ntync.gov

Prepared By:
Joe Joy
Modern Nissan
5795 University Parkway
Winston- Salem, NC 27105
Phone: (336) 767-8260
Fax: (336) 744--213
Email: jjoy@modernauto.com

2018 Retail Nissan NV Cargo NV2500 HD Standard Roof V6 SV 61218

SELECTED MODEL & OPTIONS

SELECTED OPTIONS - 2018 Retail 61218 NV2500 HD Standard Roof V6 SV

CATEGORY

<u>Code</u>	<u>Description</u>
DEALER INSTALLED OPTIONS	
<u>.STROB</u>	Four Corner Strobe Lights (Amber)

OPTIONS TOTAL

An underlined code indicates that the options have been applied by the dealer. All sales prices established solely by dealer.

Report content is based on current data version referenced. Any performance-related calculations are offered solely as guidelines. Actual unit performance will depend on your operating conditions.

GM AutoBook, Data Version: 538.0, Data updated 4/10/2018
© Copyright 1986-2012 Chrome Data Solutions, LP. All rights reserved.

Customer File:

Prepared For:
Joe Cherry
Lee County General Services
805 S 5th St
Sanford, NC 27330
Phone: (919) 718-4622
Email: joseph.cherry@leecou
ntync.gov

Prepared By:
Joe Joy
Modern Nissan
5795 University Parkway
Winston- Salem, NC 27105
Phone: (336) 767-8260
Fax: (336) 744--213
Email: jjoy@modernauto.com

2018 Retail Nissan NV Cargo NV2500 HD Standard Roof V6 SV 61218

STANDARD EQUIPMENT

STANDARD EQUIPMENT - 2018 Retail 61218 NV2500 HD Standard Roof V6 SV

ENTERTAINMENT

- Radio: AM/FM/1CD/AUX w/4 Speakers -inc: 5" color display w/rear view monitor, streaming audio via Bluetooth, USB connection port for iPod interface and other compatible devices, hands-free text messaging assistant, Bluetooth hands-free phone system and SiriusXM satellite radio
- Radio w/Seek-Scan, Clock, Speed Compensated Volume Control, Steering Wheel Controls and Radio Data System
- Fixed Antenna
- 1 LCD Monitor In The Front

Report content is based on current data version referenced. Any performance-related calculations are offered solely as guidelines. Actual unit performance will depend on your operating conditions.

GM AutoBook, Data Version: 538.0, Data updated 4/10/2018
© Copyright 1986-2012 Chrome Data Solutions, LP. All rights reserved.

Customer File:

Prepared For:
Joe Cherry
Lee County General Services
805 S 5th St
Sanford, NC 27330
Phone: (919) 718-4622
Email: joseph.cherry@leecou
ntync.gov

Prepared By:
Joe Joy
Modern Nissan
5795 University Parkway
Winston- Salem, NC 27105
Phone: (336) 767-8280
Fax: (336) 744-213
Email: jjoy@modernauto.com

2018 Retail Nissan NV Cargo NV2500 HD Standard Roof V6 SV 61218

STANDARD EQUIPMENT

STANDARD EQUIPMENT - 2018 Retail 61218 NV2500 HD Standard Roof V6 SV

EXTERIOR

- Wheels: 17" Styled Steel
- Tires: LT245/70/R17 AS
- Steel Spare Wheel
- Full-Size Spare Tire Stored Underbody w/Crankdown
- Clearcoat Paint
- Black Front Bumper
- Black Rear Step Bumper
- Black Side Windows Trim and Black Front Windshield Trim
- Black Door Handles
- Black Power Side Mirrors w/Convex Spotter and Manual Folding
- Light Tinted Glass
- Speed Sensitive Variable Intermittent Wipers
- Front Windshield -inc: Sun Visor Strip
- Fully Galvanized Steel Panels
- Black Grille
- Sliding Rear Passenger Side Door
- Split Swing-Out Rear Cargo Access
- Tailgate/Rear Door Lock Included w/Power Door Locks
- Aero-Composite Halogen Daytime Running Headlamps

Report content is based on current data version referenced. Any performance-related calculations are offered solely as guidelines. Actual unit performance will depend on your operating conditions.

GM AutoBook, Data Version: 538.0, Data updated 4/10/2018
© Copyright 1986-2012 Chrome Data Solutions, LP. All rights reserved.

Customer File:

Prepared For:
Joe Cherry
Lee County General Services
805 S 5th St
Sanford, NC 27330
Phone: (919) 718-4622
Email: joseph.cherry@leecou
ntync.gov

Prepared By:
Joe Joy
Modern Nissan
5795 University Parkway
Winston- Salem, NC 27105
Phone: (336) 767-8260
Fax: (336) 744-213
Email: jjoy@modernauto.com

2018 Retail Nissan NV Cargo NV2500 HD Standard Roof V6 SV 61218

STANDARD EQUIPMENT

STANDARD EQUIPMENT - 2018 Retail 61218 NV2500 HD Standard Roof V6 SV

INTERIOR

- Captain's Chairs -inc: driver's and passenger's 4-way manual seats and fold-down passenger seat w/seat back tray table
- Manual Tilt Steering Column
- Gauges -inc: Speedometer, Odometer, Voltmeter, Oil Pressure, Engine Coolant Temp, Tachometer, Transmission Fluid Temp, Trip Odometer and Trip Computer
- Front Cupholder
- 2 12V DC Power Outlets
- Remote Keyless Entry w/Illuminated Entry and Panic Button
- Cruise Control w/Steering Wheel Controls
- Manual Air Conditioning
- Glove Box
- Driver Foot Rest
- Interior Trim -inc: Metal-Look Interior Accents
- Front Cloth Headliner
- Urethane Gear Shift Knob
- Cloth Seat Trim -inc: water-repellant feature w/vinyl wear bolsters
- Partial Floor Console w/Locking Storage, Mini Overhead Console w/Storage, 2 12V DC Power Outlets and 2 AC Power Outlets
- Fade-To-Off Interior Lighting
- Front Only Vinyl/Rubber Floor Covering
- Vinyl/Rubber Mat
- Cargo Space Lights
- Instrument Panel Bin, Driver And Passenger Door Bins and 1st Row Underseat Storage
- Power 1st Row Windows w/Driver 1-Touch Down
- Delayed Accessory Power

Report content is based on current data version referenced. Any performance-related calculations are offered solely as guidelines. Actual unit performance will depend on your operating conditions.

GM AutoBook, Data Version: 538.0, Data updated 4/10/2018
© Copyright 1986-2012 Chrome Data Solutions, LP. All rights reserved.
Customer File:

Prepared For:
Joe Cherry
Lee County General Services
805 S 5th St
Sanford, NC 27330
Phone: (919) 718-4622
Email: joseph.cherry@leecou
ntync.gov

Prepared By:
Joe Joy
Modern Nissan
5795 University Parkway
Winston- Salem, NC 27105
Phone: (336) 767-8260
Fax: (336) 744-213
Email: jjoy@modernauto.com

2018 Retail Nissan NV Cargo NV2500 HD Standard Roof V6 SV 61218

STANDARD EQUIPMENT

STANDARD EQUIPMENT - 2018 Retail 61218 NV2500 HD Standard Roof V6 SV

MECHANICAL

- Engine: 4.0L DOHC 24-Valve V6
- Transmission: 5-Speed Automatic
- 3.36 Axle Ratio
- GVWR: 9,100 lbs
- Transmission w/Driver Selectable Mode and Oil Cooler
- Rear-Wheel Drive
- Engine Oil Cooler
- 70-Amp/Hr 650CCA Maintenance-Free Battery w/Run Down Protection
- 130 Amp Alternator
- 3140# Maximum Payload
- Front And Rear Anti-Roll Bars
- HD Shock Absorbers
- Hydraulic Power-Assist Speed-Sensing Steering
- 28 Gal. Fuel Tank
- Single Stainless Steel Exhaust
- Double Wishbone Front Suspension w/Coil Springs
- Leaf Rear Suspension w/Leaf Springs
- 4-Wheel Disc Brakes w/4-Wheel ABS, Front And Rear Vented Discs and Brake Assist
- Brake Actuated Limited Slip Differential

Report content is based on current data version referenced. Any performance-related calculations are offered solely as guidelines. Actual unit performance will depend on your operating conditions.

GM AutoBook, Data Version: 538.0, Data updated 4/10/2018
© Copyright 1986-2012 Chrome Data Solutions, LP. All rights reserved.

Customer File:

Prepared For:
Joe Cherry
Lee County General Services
805 S 5th St
Sanford, NC 27330
Phone: (919) 718-4622
Email: joseph.cherry@leecou
ntync.gov

Prepared By:
Joe Joy
Modern Nissan
5795 University Parkway
Winston- Salem, NC 27105
Phone: (336) 767-8260
Fax: (336) 744-213
Email: jjoy@modernauto.com

2018 Retail Nissan NV Cargo NV2500 HD Standard Roof V6 SV 61218

STANDARD EQUIPMENT

STANDARD EQUIPMENT - 2018 Retail 61218 NV2500 HD Standard Roof V6 SV

SAFETY

- Electronic Stability Control (ESC)
- ABS And Driveline Traction Control
- Side Impact Beams
- Dual Stage Driver And Passenger Seat-Mounted Side Airbags
- Rear Parking Sensors
- Tire Specific Low Tire Pressure Warning
- Dual Stage Driver And Passenger Front Airbags
- Curtain 1st Row Airbags
- First Aid Kit
- Outboard Front Lap And Shoulder Safety Belts -inc: Height Adjusters and Pretensioners

Report content is based on current data version referenced. Any performance-related calculations are offered solely as guidelines. Actual unit performance will depend on your operating conditions.

GM AutoBook, Data Version: 538.0, Data updated 4/10/2018
© Copyright 1986-2012 Chrome Data Solutions, LP. All rights reserved.

Customer File:

Prepared For:
Joe Cherry
Lee County General Services
805 S 5th St
Sanford, NC 27330
Phone: (919) 718-4622
Email: joseph.cherry@leecou
ntync.gov

Prepared By:
Joe Joy
Modern Nissan
5795 University Parkway
Winston- Salem, NC 27105
Phone: (336) 767-8260
Fax: (336) 744-213
Email: jjoy@modernauto.com

2018 Retail Nissan NV Cargo NV2500 HD Standard Roof V6 SV 61218

WARRANTY INFORMATION

WARRANTY INFORMATION - 2018 Retail 61218 NV2500 HD Standard Roof V6 SV

WARRANTY

Basic:

5 Years/100,000 Miles

Drivetrain:

5 Years/100,000 Miles

Corrosion:

5 Years/Unlimited Miles

Roadside Assistance:

5 Years/60,000 Miles

Report content is based on current data version referenced. Any performance-related calculations are offered solely as guidelines. Actual unit performance will depend on your operating conditions.

GM AutoBook, Data Version: 538.0, Data updated 4/10/2018
© Copyright 1986-2012 Chrome Data Solutions, LP. All rights reserved.

Customer File:



ITEM #:
II. F.

LEE COUNTY AGENDA ABSTRACT

BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Approval to purchase two (2) Crew Cab Pick Up Trucks from NC Sheriff's Association Vehicle Bid Contract

DEPARTMENT: General Services

CONTACT PERSON: Russell L. Spivey, General Services Director

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Approve Capital Purchases in the amount of \$53,457.10 to purchase two (2) pick up trucks from NC Sheriff's Association Vehicle Bid for the general Services Department.
BUDGET IMPACT	Funds of \$54,000.00 are included in the FY 2018-19 General Services Budget.
ATTACHMENTS	Vehicle Quote per NC Sheriff's Association Vehicle Bid 18-04-0912 NCSA Vehicle Procurement Program Specification Award Agreement
PRIOR BOARD ACTION	NA
RECOMMENDATION	Approve Capital Purchases in the amount of \$53,457.10 to purchase two (2) pick up trucks from NC Sheriff's Association Vehicle Bid for the general Services Department.
SUMMARY	

The General Services Department requests approval to purchase the following vehicles on the NC Sheriff's Association Vehicle Bid 18-04-0912 from Modern Chevrolet in Winston Salem, NC. And from Asheville Ford Lincoln in Asheville, NC.

2019 Chevrolet Silverado 1500 (CC15753) 2WD Double Cab Spec #283 in the amount of \$24,949.68
2019 Ford F250 XL 4X2 SD Crew Cab in the amount of \$28,507.42

These trucks will replace Vehicle #1048 and 1045. Both of them are 1999 Dodge Ram. These vehicles will be discontinued due to mileage and increasing maintenance cost.

**North Carolina Sheriffs' Association
Vehicle Procurement Program
Specification Award Agreement**

**Police Rated, Administrative, Utility Vehicles,
Trucks & Vans
Bid 18-04-0912**

**SPECIFICATION NUMBER 28
2018 Ford F-250 XL 4x2 SD Crew Cab (W2A)
FOR ZONES: APPALACHIA, DOGWOOD**

We are pleased to announce the North Carolina Sheriffs' Association has successfully completed its statewide competitive award for vehicles effective October 2, 2017.

Congratulations, your dealership has won the award for the above specification number based on the lowest and best bidder criteria set forth in the North Carolina Sheriffs' Association's Solicitation for Bids and Contract Terms and Conditions.

By the award of this contract based on your dealership's bid for Solicitation Number 18-04-0912, all terms and conditions set forth in the Solicitation for Bids and Contract Terms and Conditions are incorporated herein by reference and agreed to by the Contractor and the North Carolina Sheriffs' Association.



Signature of Authorized Representative

Jeffrey D. Williams

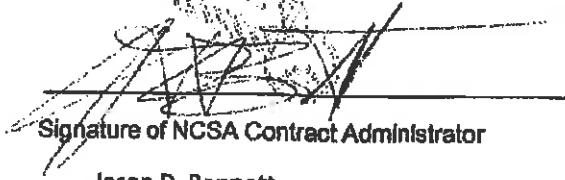
Printed Name of Authorized Representative

Asheville Ford Lincoln

Contractor/Dealership Name (Please Print)

10/03/2017

Date



Signature of NCSA Contract Administrator

Jason D. Bennett

Printed Name of NCSA Contract Administrator

10/2/17

Date



Asheville Ford Lincoln
611 Brevard Rd., Asheville, North Carolina, 288062201
Office: 828-253-2731
Fax: 828-258-6012

Customer Proposal

Prepared for:

Lee County NC

Prepared by:

Jeffrey Williams
Office: 828-279-4933
Email: jwilliams@ashevilleford.com

Date: 08/09/2018

Vehicle: 2019 F-250 XL
4x2 SD Crew Cab 6.75' box 160" WB SRW

Quote ID: 0803201808





Asheville Ford Lincoln
611 Brevard Rd., Asheville, North Carolina,
288062201
Office: 828-253-2731
Fax: 828-258-6012

2019 F-250, SD Crew Cab
4x2 SD Crew Cab 6.75' box 160" WB SRW
XL(W2A)
Price Level: 915 Quote ID: 0803201808

Table of Contents

Description	Page
Cover Page	1
Table of Contents	2
Selected Options	3
Pricing - Single Vehicle	5
Window Sticker	6



Asheville Ford Lincoln
611 Brevard Rd., Asheville, North Carolina,
288062201
Office: 828-253-2731
Fax: 828-258-6012

Page 35 of 430
2019 F-250, SD Crew Cab
4x2 SD Crew Cab 6.75' box 160" WB SRW
XL(W2A)
Price Level: 915 Quote ID: 0803201806

Selected Options

Code	Description
Base Vehicle	
W2A	Base Vehicle Price (W2A)
Packages	
600A	Order Code 600A <i>Includes:</i> - Engine: 6.2L 2-Valve SOHC EFI NA V8 Flex-Fuel Flex-Fuel badge on fleet orders only. - Transmission: TorqShift-G 6-Spd Auto w/SelectShift - 3.73 Axle Ratio - GVWR: 10,000 lb Payload Package - Tires: LT245/75R17E BSW A/S (4) - Wheels: 17" Argent Painted Steel Includes painted hub covers/center ornaments. - HD Vinyl 40/20/40 Split Bench Seat Includes center armrest, cupholder, storage and driver's side manual lumbar. - Radio: AM/FM Stereo Includes digital clock and 6-speakers.
Powertrain	
996	Engine: 6.2L 2-Valve SOHC EFI NA V8 Flex-Fuel <i>Flex-Fuel badge on fleet orders only.</i>
44S	Transmission: TorqShift-G 6-Spd Auto w/SelectShift
X3E	Electronic-Locking w/3.73 Axle Ratio
STDGV	GVWR: 10,000 lb Payload Package
Wheels & Tires	
TD8	Tires: LT245/75R17E BSW A/S (4)
64A	Wheels: 17" Argent Painted Steel <i>Includes painted hub covers/center ornaments.</i>
Seats & Seat Trim	
1	Cloth 40/20/40 Split Bench Seat <i>Includes center armrest, cupholder, storage and driver's side manual lumbar.</i>
Other Options	
160WB	160" Wheelbase
96V	XL Value Package

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared for: Lee County NC
By: Jeffrey Williams Date: 08/09/2018



Asheville Ford Lincoln
611 Brevard Rd., Asheville, North Carolina,
288062201
Office: 828-253-2731
Fax: 828-258-6012

Page 36 of 420
2019 F-250, SD Crew Cab
4x2 SD Crew Cab 6.75' box 160" WB SRW
XL(W2A)
Price Level: 915 Quote ID: 0803201808

Selected Options (cont'd)

Code	Description
90L	<p>Power Equipment Group</p> <p><i>Deletes passenger-side lock cylinder. Includes upgraded door trim panel.</i></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> - Accessory Delay - Manual Telescoping/Folding Trailer Tow Mirrors - Includes power heated glass, heated convex spotter mirror and integrated clearance lights and turn signal indicators. - Advanced Security Pack - Includes SecuriLock Passive Anti-Theft System (PATS) and inclination/intrusion sensors. - Power Locks - Power Tailgate Lock - Power Front & Rear Seat Windows - Includes 1-touch up/down driver/passenger window. - Remote Keyless Entry
52B	<p>Trailer Brake Controller</p> <p><i>Verified to be compatible with select electric over hydraulic brakes. Includes smart trailer tow connector.</i></p>
PAINT	<p>Monotone Paint Application</p>
585_	<p>Radio: AM/FM Stereo/MP3 Player</p> <p><i>Includes 6-speakers.</i></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> - SYNC Communications & Entertainment System - Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink, 1 smart-charging USB port and steering wheel audio controls.
91S	<p>Amber LED Warning Strobes (Pre-Installed)</p> <p><i>Custom accessory. Includes center high-mounted stop light bar and 2 hood mounted lights.</i></p>
Emissions	
425	50-State Emissions System
Interior Colors	
1S_02	Medium Earth Gray
Primary Colors	
Z1_01	Oxford White

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.



Asheville Ford Lincoln
611 Brevard Rd., Asheville, North Carolina,
288062201
Office: 828-253-2731
Fax: 828-258-6012

Page 37 of 430
2019 F-250, SD Crew Cab
4x2 SD Crew Cab 6.75' box 160" WB SRW
XL(W2A)
Price Level: 915 Quote ID: 0803201808

Pricing - Single Vehicle

	MSRP
<i>Vehicle Pricing</i>	\$41,650.00
<i>Pre-Tax Adjustments</i>	
Code	Description
Fleet	Fleet Concession
	-\$8,890.00
DISCOUNT	DEALER DISCOUNT
	-\$4,252.58
<hr/>	
Total	\$28,507.42

Customer Signature

Acceptance Date

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.



Asheville Ford Lincoln
 611 Brevard Rd., Asheville, North Carolina, 288062201
 Office: 828-253-2731
 Fax: 828-258-6012

2019 F-250, SD Crew Cab
 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)
 Price Level: 915 Quote ID: 0803201808

Major Equipment

(Based on selected options, shown at right)

6.2L V-8 SOHC w/SMPI 385hp
 TorqShift-G 6 speed automatic w/OD

- * Rear locking differential driver selectable
- * Brake assistance
- * LT 245/75R17 E BSW AS S-rated tires
- * Firm suspension
- * Air conditioning
- * AM/FM stereo with seek-scan, MP3 decoder, auxiliary audio input, external memory control
- * Daytime running
- * Variable intermittent wipers
- * Dual front airbags
- * SecurILock immobilizer
- * Message Center
- * Reclining front split-bench seats
- * Audio control on steering wheel
- * Front axle capacity: 5250 lbs.
- * Front spring rating: 4250 lbs.
- * Frame section modulus: 10.7 cu.in.
- * Cab to axle: 39.9"

Exterior:Oxford White
 Interior:Medium Earth Gray

- * 4-wheel ABS
- * Traction control
- * Battery with run down protection
- * Advance Trac w/Roll Stability Control
- * Tinted glass
- * Bluetooth streaming audio
- * Dual power remote heated mirrors
- * 17 x 7.5 steel wheels
- * Driver and front passenger seat mounted side airbags
- * Tachometer
- * Underseat ducts
- * 60-40 folding rear split-bench
- * Class V hitch
- * Rear axle capacity: 6200 lbs.
- * Rear spring rating: 6340 lbs.
- * Frame Yield Strength 50000 psi

Fuel Economy

City N/A



Hwy N/A

Selected Options

STANDARD VEHICLE PRICE	MSRP
Order Code 600A	\$36,580.00
160" Wheelbase	N/C
Monotone Paint Application	STD
50-State Emissions System	STD
Electronic-Locking w/3.73 Axle Ratio	STD
Cloth 40/20/40 Split Bench Seat	\$390.00
XL Value Package	\$315.00
Power Equipment Group	\$1,000.00
Trailer Brake Controller	\$1,125.00
Amber LED Warning Strobes (Pre-Installed)	\$270.00
Oxford White	\$675.00
Medium Earth Gray	N/C
Engine: 6.2L 2-Valve SOHC EFI NA V8 Flex-Fuel	Included
Transmission: TorqShift-G 6-Spd Auto w/SelectShift	Included
GVWR: 10,000 lb Payload Package	Included
Tires: LT245/75Rx17E BSW A/S (4)	Included
Wheels: 17" Argent Painted Steel	Included
4.2" Center-Stack Screen	Included
Radio: AM/FM Stereo/MP3 Player	Included
SYNC Communications & Entertainment System	Included

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared for: **Lee County NC**
 By: **Jeffrey Williams** Date: **08/09/2018**



Asheville Ford Lincoln
 611 Brevard Rd., Asheville, North Carolina, 288062201
 Office: 828-253-2731
 Fax: 828-258-6012

2019 F-250, SD Crew Cab
 4x2 SD Crew Cab 6.75' box 160" WB SRW XL(W2A)
 Price Level: 915 Quote ID: 0803201806

Bright Chrome Hub Covers & Center Ornaments	Included
Chrome Front Bumper	Included
Chrome Rear Step Bumper	Included
Steering Wheel-Mounted Cruise Control	Included
Accessory Delay	Included
Manual Telescoping/Folding Trailer Tow Mirrors	Included
Advanced Security Pack	Included
Power Locks	Included
Power Tailgate Lock	Included
Power Front & Rear Seat Windows	Included
Remote Keyless Entry	Included

SUBTOTAL	\$40,355.00
Destination Charge	\$1,295.00
TOTAL	\$41,650.00

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared for: Lee County NC
 By: Jeffrey Williams Date: 08/09/2018

**North Carolina Sheriffs' Association
Vehicle Procurement Program
Specification Award Agreement**

**Police Rated, Administrative, Utility Vehicles,
Trucks & Vans
Bid 18-04-0912**

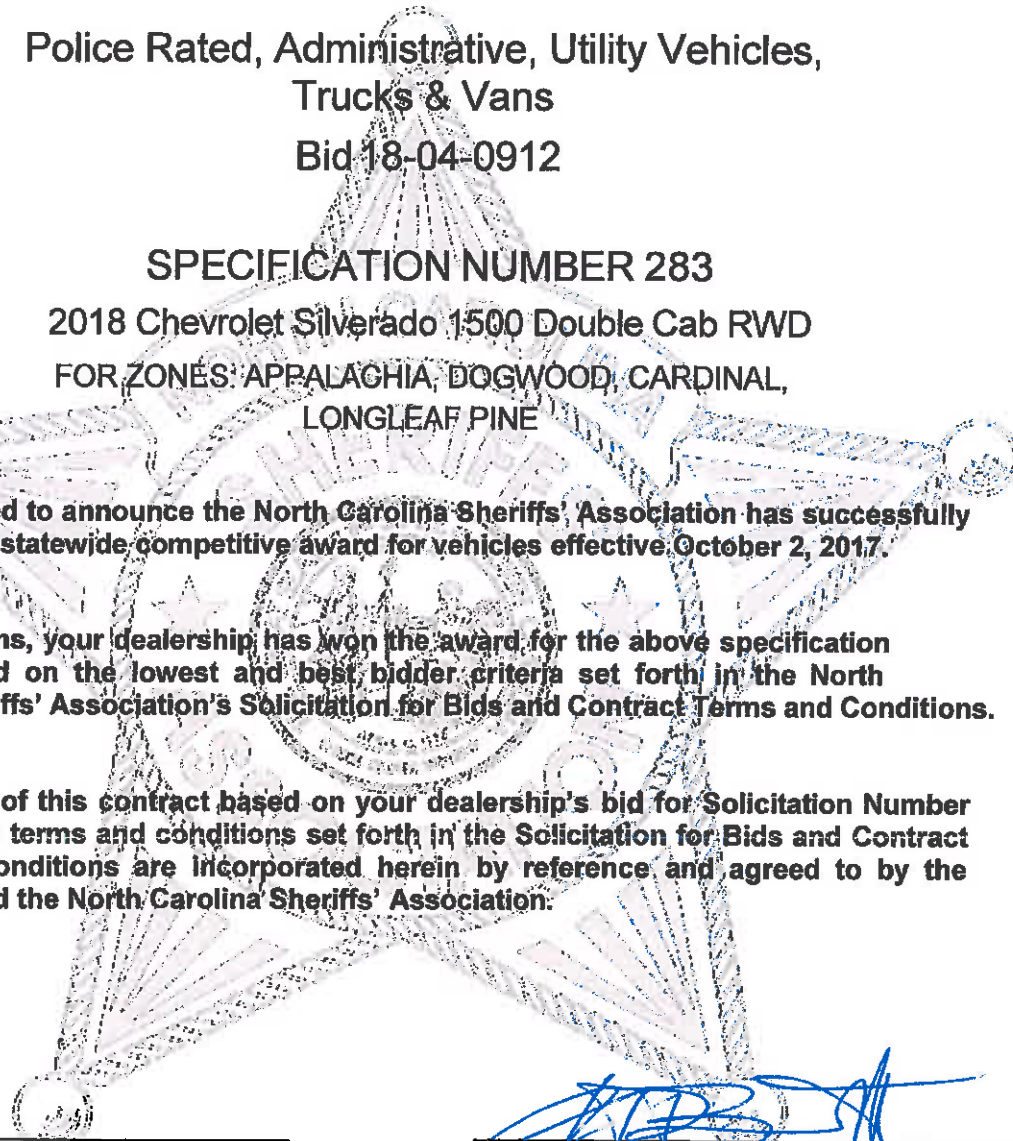
SPECIFICATION NUMBER 283

**2018 Chevrolet Silverado 1500 Double Cab RWD
FOR ZONES: APPALACHIA, DOGWOOD, CARDINAL,
LONLEAF PINE**

We are pleased to announce the North Carolina Sheriffs' Association has successfully completed its statewide competitive award for vehicles effective October 2, 2017.

Congratulations, your dealership has won the award for the above specification number based on the lowest and best bidder criteria set forth in the North Carolina Sheriffs' Association's Solicitation for Bids and Contract Terms and Conditions.

By the award of this contract based on your dealership's bid for Solicitation Number 18-04-0912, all terms and conditions set forth in the Solicitation for Bids and Contract Terms and Conditions are incorporated herein by reference and agreed to by the Contractor and the North Carolina Sheriffs' Association.



Signature of Authorized Representative

Printed Name of Authorized Representative

Contractor/Dealership Name (Please Print)

Date

Signature of NCSA Contract Administrator
Jason D. Bennett

Printed Name of NCSA Contract Administrator

10/2/17

Date



Modern Chevrolet Comm/Fleet Dept

Randy Andrews | 336-722-4191 | randrews@modernauto.com

Dealership Information

Modern Chevrolet
5955 University Parkway
Winston Salem, NC 27105

Prepared for: Lee County

Prepared By:

Randy Andrews
Modern Chevrolet Comm/Fleet Dept
336-722-4191
randrews@modernauto.com

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.
Data Version: 4876. Data Updated: Feb 7, 2016 9:16:00 PM PST.



**5955 UNIVERSITY PARKWAY
 WINSTON SALEM, NC 27105**



336-722-5191

336-531-0048 (FAX)

Date: 6/14/2018 Customer: Lee County

Vehicle: 2019 Chevrolet Silverado 1500 (CC15753) 2WD Double Cab 143.5" Color: White
 Spec # 283

NC Sheriff Association Contract # 18-04-0912

Vehicle Base Price:

20122.68

Additional Options:

- L83 Engine, 5.3L EcoTec3 V8
- PCX Chrome Bumper Package
- PCR WT Fleet Convenience Package
- Z82 Trailing Package
- G80 Differential, heavy-duty locking rear
- JL1 Trailer brake controller, integrated
- VXJ Assist steps - 4" Chromed Round
- V76 Recovery hooks, front
- CGN Bed Liner, Spray-on
- AKO Glass, deep-tinted
- VAV All-weather floor mats, front and rear
- 4-Corner Strobes
- B30 Floor covering, color-keyed carpeting

1154
193
360
368
368
256
640
48
462
186
149
550
93

Total Vehicle Cost:

24949.68

Approved:

Date:

County/Agency:

Lee County

Address:

City/State/Zip:

Phone:

919-718-4622 Ext # 5378

Email:

sgiraldo@leecountync.gov



Modern Chevrolet Comm/Fleet Dept

Randy Andrews | 336-722-4191 | randrews@modernauto.com

[Fleet] 2018 Chevrolet Silverado 1500 (CC15753) 2WD Double Cab 143.5" (11)

Selected Model and Options

MODEL

CODE	MODEL
CC15753	2018 Chevrolet Silverado 1500 2WD Double Cab 143.5" Work Truck

COLORS

CODE	DESCRIPTION
GAZ	Summit White

OPTIONS

CODE	DESCRIPTION
---	Battery, heavy-duty 720 cold-cranking amps/80 Amp-hr, maintenance-free with rundown protection and retained accessory power (Included and only available with V8 engines.)
1WT	Work Truck Preferred Equipment Group includes standard equipment
A91	Remote Locking Tailgate (Included and only available with (AQQ) Remote Keyless Entry. Not available with (ZW9) pickup box delete.)
AE7	Seats, front 40/20/40 split-bench, 3-passenger, driver and front passenger manual recline with outboard head restraints and center fold-down armrest with storage. Vinyl has fixed lumbar and cloth has manual adjustable driver lumbar (STD)
AKO	Glass, deep-tinted (Included with (ST7) Black Out Edition.)
AQQ	Remote Keyless Entry, with 2 transmitters (Included and only available with (PCR) WT Fleet Convenience Package. Includes (A91) remote locking tailgate.)
B30	Floor covering, color-keyed carpeting with rubberized vinyl floor mats (Double Cab and Crew Cabs include second row floor mats)

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.

Data Version: 4876 Data Updated: Feb 7, 2018 9:16:00 P.M. PST



Modern Chevrolet Comm/Fleet Dept

Randy Andrews | 336-722-4191 | randrews@modernauto.com

[Fleet] 2018 Chevrolet Silverado 1500 (CC15753) 2WD Double Cab 143.5" (11)

OPTIONS

CODE	DESCRIPTION
C5W	GVWR, 7000 lbs. (3175 kg) (Crew Cab and Double Cab Requires 2WD models and (L83) 5.3L EcoTec3 V8 engine or (L86) 6.2L EcoTec3 V8 engine. Not available with (NHT) Max Trailering Package.)
CGN	Bed Liner, Spray-on, Pickup box bed liner with bowtie logo. Liner is permanently bonded to the truck bed providing a water tight seal. The textured, non-skid surface is black in color and robotically applied. Spray-on liner covers entire bed interior surface below side rails, including tailgate, front box top rail, gage hole plugs and lower tie down loops. (Not available with (VZX) bed liner, LPO. Not available with any ship thru code on Double Cab or Regular Cab models. Included with (G0P) Special Ops Edition.)
DL8	Mirrors, outside heated power-adjustable (includes driver's side spotter mirror) (Black. Included and only available with (PCR) WT Fleet Convenience Package.)
FE9	Emissions, Federal requirements
G80	Differential, heavy-duty locking rear
GAZ	Summit White
GU4	Rear axle, 3.08 ratio (Requires (L83) 5.3L EcoTec3 V8 engine. Not available with (RD2) 20" chrome wheels or (RD4) 20" polished-aluminum wheels.)
H2R	Dark Ash with Jet Black Interior Accents, Cloth seat trim
IOB	Audio system, Chevrolet MyLink Radio with 7" diagonal color touch-screen, AM/FM stereo with seek-and-scan and digital clock, includes Bluetooth streaming audio for music and select phones (STD)

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.

Data Version: 4876. Data Updated: Feb 7, 2018 9:16:00 PM PST.



Modern Chevrolet Comm/Fleet Dept

Randy Andrews | 336-722-4191 | randrews@modernauto.com

[Fleet] 2018 Chevrolet Silverado 1500 (CC15753) 2WD Double Cab 143.5" (11)

OPTIONS

CODE	DESCRIPTION
JL1	Trailer brake controller, integrated (Requires (Z82) Trailering equipment. Available as a free flow option on Regular Cab when (ZW9) pickup box delete is ordered.)
KNP	Cooling, auxiliary external transmission oil cooler (Included and only available with (L83) 5.3L EcoTec3 V8 engine.)
L83	Engine, 5.3L EcoTec3 V8 with Active Fuel Management, Direct Injection and Variable Valve Timing includes aluminum block construction (355 hp [265 kW] @ 5600 rpm, 383 lb-ft of torque [518 Nm] @ 4100 rpm; more than 300 lb-ft of torque from 2000 to 5600 rpm)
MYC	Transmission, 6-speed automatic, electronically controlled with overdrive and tow/haul mode. Includes Cruise Grade Braking and Powertrain Grade Braking (STD)
PCR	WT Fleet Convenience Package All cabs include (DL8) outside heated power-adjustable mirrors, (A91) remote locking tailgate and (AQQ) Remote Keyless Entry. ((DL8) outside heated power-adjustable mirrors can be upgraded to (DPN) power camper mirrors. If (ZW9) pickup box delete is ordered (A91) remote locking tailgate will not be included.)
PCX	Chrome Bumper Package includes (VJH) rear chrome bumper with (BWN) CornerSteps and (V46) chrome front bumper
RBZ	Tires, P255/70R17 all-season, blackwall (STD)
RD6	Wheels, 17" x 8" (43.2 cm x 20.3 cm) painted steel (STD)
V46	Bumper, front chrome (Included and only available with (PCX) Chrome Bumper Package.)

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.

Data Version: 4876. Data Updated: Feb 7, 2018 9:16:00 PM PST.



Modern Chevrolet Comm/Fleet Dept

Randy Andrews | 336-722-4191 | randrews@modernauto.com

[Fleet] 2018 Chevrolet Silverado 1500 (CC15753) 2WD Double Cab 143.5" (11)

OPTIONS

CODE	DESCRIPTION
V76	Recovery hooks, front, frame-mounted, black (Standard with 4WD models. Available with 2WD models.)
VAV	LPO, All-weather floor mats, front and rear on Crew Cab and Double Cab (dealer-installed) (Requires B30 color-keyed carpeting.)
VJH	Bumper, rear chrome (Included and only available with (PCX) Chrome Bumper Package.)
VXJ	LPO, Assist steps - 4" Chromed Round (dealer-installed) (Included with (PCO) Essentials Package, LPO. Not available with (RVS) 4" round Black tubular assist steps, LPO, (VXH) 6" rectangular chrome tubular assist steps, LPO or (RVQ) 6" Black tubular assist steps, LPO.)
Z82	Trailer Package includes trailer hitch, 7-pin and 4-pin connectors
ZY1	Paint, solid

Options Total

Standard Equipment

Mechanical

Pickup box

Engine, 4.3L FlexFuel EcoTec3 V6 with Active Fuel Management, Direct Injection and Variable Valve Timing includes aluminum block construction with (FHS) E85 FlexFuel capability, capable of running on unleaded or up to 85% ethanol (285 hp [212 kW] @ 5300 rpm, 305 lb-ft of torque [413 Nm] @ 3900 rpm) (STD) (Includes (FHS) E85 FlexFuel capability. Not available on C*15743 models.)

Transmission, 6-speed automatic, electronically controlled with overdrive and tow/haul mode. Includes Cruise Grade Braking and Powertrain Grade Braking (STD)

Rear axle, 3.23 ratio (Standard and only available on (LV3) 4.3L EcoTec3 V6 engine with 2WD models.)

GVWR, 6900 lbs. (3130 kg) (STD) (Crew Cab and Double Cab requires 2WD models and (LV3) 4.3L EcoTec3 V6 engine.)

Rear wheel drive

Cooling, external engine oil cooler

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.

Data Version: 4876. Data Updated: Feb 7, 2018 9:16:00 PM PST.



Modern Chevrolet Comm/Fleet Dept

Randy Andrews | 336-722-4191 | randrews@modernauto.com

[Fleet] 2018 Chevrolet Silverado 1500 (CC15753) 2WD Double Cab 143.5" (11)

Mechanical

Battery, heavy-duty 730 cold-cranking amps/70 Amp-hr, maintenance-free with rundown protection and retained accessory power

Alternator, 150 amps

Frame, fully-boxed, hydroformed front section

Steering, Electric Power Steering (EPS) assist, rack-and-pinion

Brakes, 4-wheel disc with DURALIFE rotors, 4-wheel antilock

Capless Fuel Fill

Exhaust, aluminized stainless-steel muffler and tailpipe

Exterior

Wheels, 17" x 8" (43.2 cm x 20.3 cm) painted steel (STD)

Tires, P255/70R17 all-season, blackwall (STD)

Wheel, full-size spare, 17" (43.2 cm) steel

Tire, spare P255/70R17 all-season, blackwall (Included and only available with (RBZ) P255/70R17 all-season, blackwall tires)

Tire carrier lock, keyed cylinder lock that utilizes same key as ignition and door

Bumpers, front, Black

Bumpers, rear, Black

Lamps, cargo area, cab mounted with switch on center switch bank

CornerStep, rear bumper

Grille surround, chrome

Active Aero Shutters, front

Headlamps, high intensity discharge (HID) projector-beam with LED signature DRL

Mirrors, outside manual, Black

Glass, solar absorbing, tinted

Door handles, Black

Tailgate and bed rail protection cap, top

Tailgate, locking utilizes same key as ignition and door (Not available with (AQQ) Remote Keyless Entry. Not available with (ZW9) pickup box delete.)

Entertainment

Audio system, Chevrolet MyLink Radio with 7" diagonal color touch-screen, AM/FM stereo with seek-and-scan and digital clock, includes Bluetooth streaming audio for music and select phones (STD)

SiriusXM Satellite Radio, delete

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.

Data Version: 4876. Data Updated: Feb 7, 2018 9:16:00 PM PST.



Modern Chevrolet Comm/Fleet Dept

Randy Andrews | 336-722-4191 | randrews@modernauto.com

[Fleet] 2018 Chevrolet Silverado 1500 (CC15753) 2WD Double Cab 143.5" (11)

Entertainment

6-speaker audio system

Bluetooth for phone, personal cell phone connectivity to vehicle audio system

Interior

Seats, front 40/20/40 split-bench, 3-passenger, driver and front passenger manual recline with outboard head restraints and center fold-down armrest with storage. Vinyl has fixed lumbar and cloth has manual adjustable driver lumbar. (STD)

Seat, rear full-width folding bench, 3-passenger (includes child seat top tether anchor) (Requires Double Cab models.)

Floor covering, Graphite-colored rubberized-vinyl, no floor mats included

Steering column, Tilt-Wheel, manual with theft-deterrent locking feature

Instrumentation, 6-gauge cluster featuring speedometer, fuel level, engine temperature, tachometer, voltage and oil pressure

Driver Information Center, 3.5-inch diagonal monochromatic display provides warning messages and basic vehicle information

Windows, power front and rear with driver express up and down and express down on all other windows (Standard on Crew Cab and Double Cab.)

Door locks, power

Cruise control, electronic with set and resume speed, steering wheel-mounted

Air conditioning, single-zone

Assist handle, front passenger on A-pillar

Safety-Mechanical

StabiliTrak, stability control system with Proactive Roll Avoidance and traction control includes electronic trailer sway control and hill start assist

Safety-Exterior

Daytime Running Lamps with automatic exterior lamp control

Safety-Interior

Air bags, dual-stage frontal and side-impact, driver and front passenger and head-curtain and seat-mounted side-impact, front and rear outboard seating positions with Passenger Sensing System (Always use safety belts and child restraints. Children are safer when properly secured in a rear seat in the appropriate child restraint. See the Owner's Manual for more information.)

Rear Vision Camera

Teen Driver mode a configurable feature that lets you activate customizable vehicle settings associated with a key fob, to encourage safe driving behavior. It can limit certain vehicle features, and it prevents certain safety systems from being turned off. An in-vehicle report gives you information on your teen's driving habits and helps you to continue to coach your new driver

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.

Data Version: 4876. Data Updated: Feb 7, 2018 9:16:00 PM PST.



Modern Chevrolet Comm/Fleet Dept

Randy Andrews | 336-722-4191 | randrews@modernauto.com

[Fleet] 2018 Chevrolet Silverado 1500 (CC15753) 2WD Double Cab 143.5" (11)

Safety-Interior

Tire Pressure Monitoring System with Tire Fill Alert (does not apply to spare tire)

WARRANTY

Basic Years: 3
Basic Miles/km: 36,000
Drivetrain Years: 5
Drivetrain Miles/km: 60,000
Drivetrain Note: Qualified Fleet Purchases: 5 Years/100,000 Miles
Corrosion Years (Rust-Through): 6
Corrosion Years: 3
Corrosion Miles/km (Rust-Through): 100,000
Corrosion Miles/km: 36,000
Roadside Assistance Years: 5
Roadside Assistance Miles/km: 60,000
Roadside Assistance Note: Qualified Fleet Purchases. 5 Years/100,000 Miles
Maintenance Years: 2
Maintenance Miles/km: 24,000
Maintenance Note: 2 Visits

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.
Data Version: 4876. Date Updated: Feb 7, 2018 9:16:00 PM PST.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

ITEM #:
II. G.

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Resolution to Add Mount Joy Place to the NC DOT Road System

DEPARTMENT: Legal

CONTACT PERSON: Jennifer Gamble, Deputy County Attorney/Clerk to the Board

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Approve Resolution to Add Mount Joy Place to the NC DOT Road System
BUDGET IMPACT	N/A
ATTACHMENTS	Resolution, Letter from NC DOT
PRIOR BOARD ACTION	None
RECOMMENDATION	Approve Resolution to Add Mount Joy Place to the NC DOT Road System
SUMMARY	

An application was submitted to the North Carolina Department of Transportation, Division of Highways, to petition for the road addition of Mount Joy Place to the secondary road system. The road is located in the Mount Joy Place (Naugle) Subdivision off of Deep River Road. DOT has determined that it meets the standards and is being considered for addition to the State System pending the concurrence by resolution of the Board of Commissioners.

LEE COUNTY

NORTH CAROLINA

Committed Today for a Better Tomorrow

**RESOLUTION
TO ADD MOUNT JOY PLACE
TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
ROAD SYSTEM**

WHEREAS, a petition has been submitted to the North Carolina Department of Transportation asking that Mount Joy Place be added to the Secondary Road System; and

WHEREAS, Mount Joy Place is 0.09 miles in length and is located in the Mount Joy Place (Naugle) Subdivision off of Deep River Road; and

WHEREAS, the Lee County Board of Commissioners is of the opinion that the above described road should be added to the Secondary Road System, if the road meets minimum standards criteria established by the Division of Highways of the Department of Transportation for the addition of roads to the System; and

NOW THEREFORE BE IT RESOLVED, by the Lee County Board of Commissioners that the Division of Highways is hereby requested to take over Mount Joy Place for maintenance if it meets established standards and criteria.

Adopted this 20th day of August, 2018.

Amy Dalrymple, Chair
Lee County Board of Commissioners

Attest:

Jennifer Gamble
Clerk to the Board



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

August 8, 2018

Lee County

Ms. Jennifer Gamble
Clerk to the Board
Lee County Board of Commissioners
Post Office Box 1968
Sanford, North Carolina 28331

Dear Ms. Gamble:

Attached are the location map and petition for the following road:

Mount Joy Place

This road located in the Mount Joy Place (Naugle) Subdivision off of Deep River Road meets standards and is being considered for addition to the State System. If the Lee County Commissioners concur with this addition, please request the appropriate resolution and forward to this office.

Thank you, and if you have any questions or concerns, please feel free to contact us at (910) 944-7621.

Sincerely,

DocuSigned by:
Travis L. Morgan
BB40D57AAB92443...

Travis L. Morgan, P.E.
District Engineer

Attachments
TLM:mer

cc: Brandon H. Jones, P.E., Division Engineer
Josh Brooks, P.E., County Maintenance Engineer
File

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
DIVISION 8 – DISTRICT 2
902 NORTH SANDHILLS BLVD.
ABERDEEN, NC 28315

Telephone: (910) 944-7621
Fax: (910) 944-5623
Customer Service: 1-877-368-4968

Location:
902 NORTH SANDHILLS BLVD.
ABERDEEN, NC 28315

Website: www.ncdot.gov

North Carolina Department of Transportation
Division of Highways
Petition for Road Addition

ROADWAY INFORMATION: (Please Print/Type)

County: Lee Road Name: Mount Joy Place
(Please list additional street names and lengths on the back of this form.)

Subdivision Name: Mount Joy Place Length (miles): 0.09 mi

Number of occupied homes having street frontage: 6 Located (miles): 0.44 mi

miles N S E W of the intersection of Route SR 1466 and Route SR 1469
(Check one) (SR, NC, US) (SR, NC, US)

We, the undersigned, being property owners and/or developers of Mount Joy Place in Lee County, do hereby request the Division of Highways to add the above described road.

CONTACT PERSON: Name and Address of First Petitioner. (Please Print/Type)

Name: Bryan Hamilton / Hamilton Properties of NC Phone Number: 919-770-5969

Street Address: 2659 Sun Lee Drive Sanford, NC 27330

Mailing Address: " "

PROPERTY OWNERS

<u>Name</u>	<u>Mailing Address</u>	<u>Telephone</u>

- INSTRUCTIONS FOR COMPLETING PETITION:**
1. Complete Information Section
 2. Identify Contact Person (This person serves as spokesperson for petitioner(s)).
 3. Attach two (2) copies of recorded subdivision plat or property deeds, which refer to candidate road.
 4. Adjoining property owners and/or the developer may submit a petition. Subdivision roads with prior NCDOT review and approval only require the developer's signature.
 5. If submitted by the developer, encroachment agreements from all utilities located within the right of way shall be submitted with the petition for Road addition. However, construction plans may not be required at this time.
 6. Submit to District Engineer's Office.

FOR NCDOT USE ONLY: Please check the appropriate block
 Rural Road Subdivision platted prior to October 1, 1975 Subdivision platted after September 30, 1975

REQUIREMENTS FOR ADDITION

If this road meets the requirements necessary for addition, we agree to grant the Department of Transportation a right-of-way of the necessary width to construct the road to the minimum construction standards of the NCDOT. The right-of-way will extend the entire length of the road that is requested to be added to the state maintained system and will include the necessary areas outside of the right-of-way for cut and fill slopes and drainage. Also, we agree to dedicate additional right-of-way at intersections for sight distance and design purposes and execute said right-of-way agreement forms that will be submitted to us by representatives of the NCDOT. The right-of-way shall be cleared at no expense to the NCDOT, which includes the removal of utilities, fences, other obstructions, etc.

General Statute 136-102.6 states that any subdivision recorded on or after October 1, 1975, must be built in accordance with NCDOT standards in order to be eligible for addition to the State Road System.

<u>ROAD NAME</u>	<u>HOMES</u>	<u>LENGTH</u>	<u>ROAD NAME</u>	<u>HOMES</u>	<u>LENGTH</u>
<i>Mount Jay Place</i>	6	0.09 mi			

**North Carolina Department of Transportation
Division of Highways
Request for Addition to State Maintained Secondary Road System**

North Carolina

County: Lee

Road Description: Mount Joy Place 0.09 miles in length

WHEREAS, the attached petition has been filed with the Board of County Commissioners of the County of Lee requesting that the above described road, the location of which has been indicated in red on the attached map, be added to the Secondary Road System, and

WHEREAS, the Board of County Commissioners is of the opinion that the above described road should be added to the Secondary Road System, if the road meets minimum standards and criteria established by the Division of Highways of the Department of Transportation for the addition of roads to the System.

NOW, THEREFORE, be it resolved by the Board of County Commissioners of the County of Lee that the Division of Highways is hereby requested to review the above described road, and to take over the road for maintenance if it meets established standards and criteria.

CERTIFICATE

The foregoing resolution was duly adopted by the Board of Commissioners of the County of _____ at a meeting on the _____ day of _____, 20__.

WITNESS my hand and official seal this the _____ day of _____, 20__.

Official Seal

Clerk, Board of Commissioners

County: _____

PLEASE NOTE:

Forward direct with request to the Division Engineer, Division of Highways

**North Carolina Department of Transportation
Division of Highways
Secondary Road Addition Investigation Report**

County: <u>Lee</u>	Co. File No: <u>53-176</u>	Date: <u>7/30/18</u>
Township: <u>Deep River</u>	Div. File No: <u>853-176</u>	Div. No: <u>8</u>
Local Name: <u>Mount Joy Place</u>	Subdivision Name: <u>Mt. Joy Place (Naugle)</u>	
Surface Type: <u>SF9.5A</u>	Surface Thickness: <u>1.5"</u>	Width: <u>20'</u> Length: <u>0.09mi</u>
Base Type: <u>ABC</u>	Base Thickness: <u>8"</u>	Pavement Condition: <u>Average</u>

*Bridges: Yes No *Pipe > 48": Yes No *Retaining walls within Right of Way? Yes No

*** If Yes - Include Bridge Maintenance Investigation Report**

Is this a subdivision street subject to the construction requirements for such streets? Yes

Recording Date: 8/13/07 Book / Page: 2007/185

Right-of-Way Width: 45' *If right-of-way is below the desired width, give reasons under "Remarks and Recommendations."*

Number of homes having entrances into road: 6 Other uses having entrances into road: 0

Is petition (SR-1) attached? Yes

Is the County Commissioners approval (SR-2) attached? No If not, why not? _____

Is map attached for reference in locating road by the Planning Department? Yes

Cost to place in acceptable maintenance condition: Total Cost: \$0

Grade, drain, and stabilize: \$0 Drainage: \$0 Other: \$0

Remarks and Recommendations: Recommend to be added to State Maintenance System

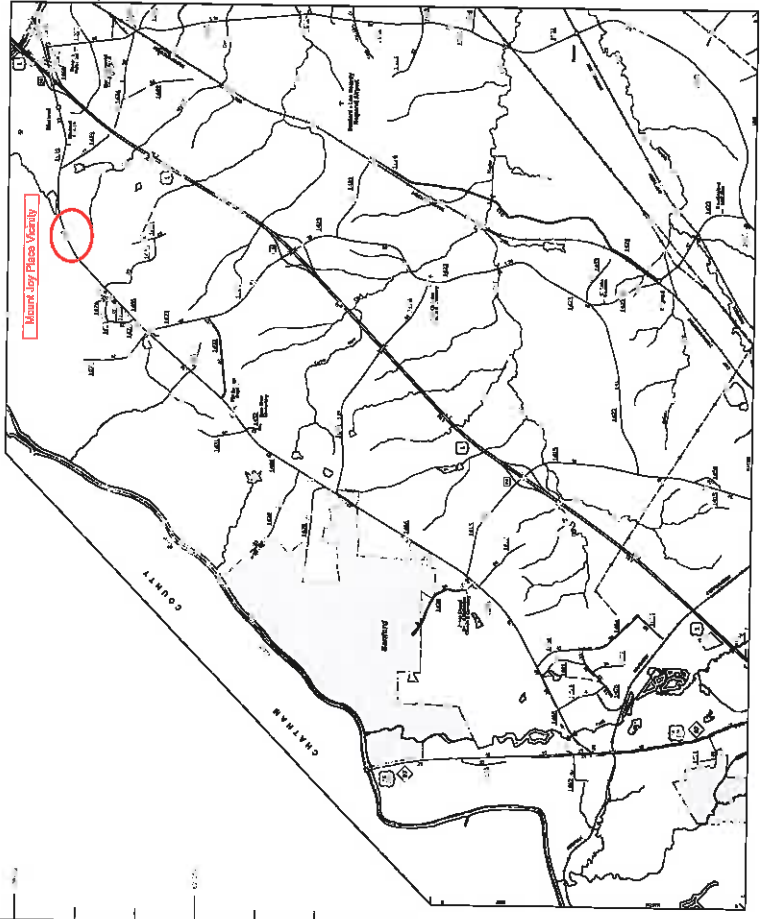
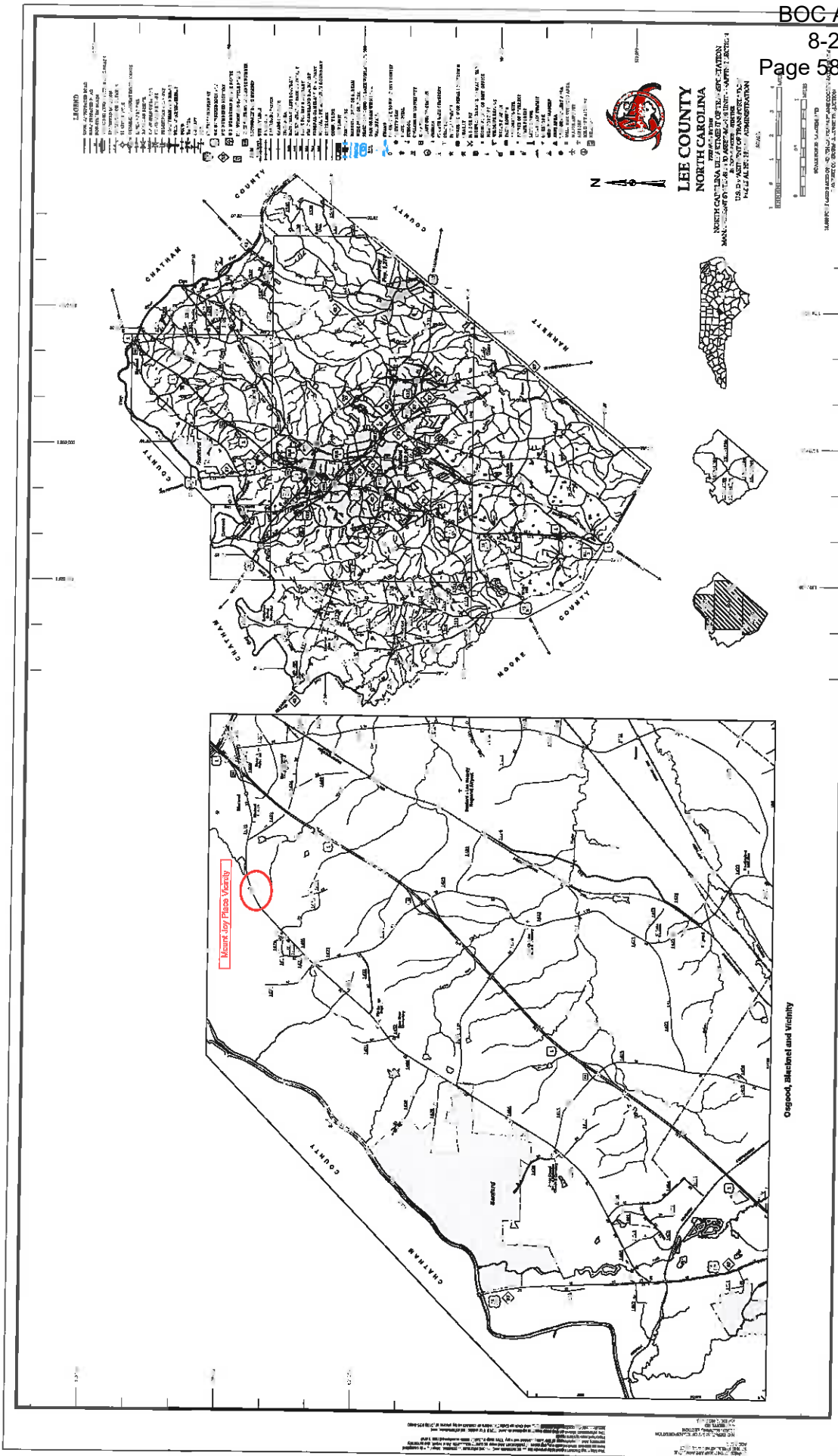
Submitted by: Travis L. Morgan
DISTRICT ENGINEER

Reviewed and Approved: _____
DIVISION ENGINEER

Reviewed and Approved

BOARD OF TRANSPORTATION MEMBER: _____

	<p>Do not write in this space - For Use by Secondary Roads Unit</p> <p>Petition #</p>
--	---



© 2018 Lee County, NC. All rights reserved. This map is for informational purposes only. It is not intended to be used for legal or financial purposes. For more information, please contact the Lee County Planning Department at (919) 755-2200.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

ITEM #:
II. H.

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Budget Amendment #08/20/18/02

DEPARTMENT: Finance

CONTACT PERSON: Lisa G. Minter, Assistant County Manager/Finance Director

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Approval of Budget Amendment #08/20/18/02
BUDGET IMPACT	See Below
ATTACHMENTS	Budget Amendment #08/20/18/02
PRIOR BOARD ACTION	N/A
RECOMMENDATION	Approval of Budget Amendment #08/20/18/02
SUMMARY	

Budget Amendment #08/20/18/02 appropriates funds for the following departments:

Recreation – To rollover funds (\$7,868) for WithersRavenel fees associated with the development of the Parks department master plan.

Health – To appropriate WIC funds (\$18,379) from the State Agreement Addendum to various lines.

MEMO TO: LEE COUNTY BOARD OF COMMISSIONERS
 FROM: JOHN A CRUMPTON, LEE COUNTY MANAGER
 SUBJECT: BUDGET AMENDMENT:# 08/20/18/02
 DATE: August 20, 2018

SECTION I. THE FOLLOWING GENERAL FUND (1100) REVENUE INCREASES ARE HEREBY APPROVED:

DEPARTMENT	ACCOUNT #	DESCRIPTION	CURRENT BUDGET	CHANGE	NEW BUDGET
Health	1100-3510-33320	DEHNR WIC	370,072	18,379	388,451
General Fund	1100-3990-39900	Fund Balance Appropriated	1,943,085	7,868	1,950,953
TOTAL CHANGES				26,247	

SECTION II. THE FOLLOWING GENERAL FUND (1100) EXPENSE INCREASES ARE HEREBY APPROVED:

DEPARTMENT	ACCOUNT #	DESCRIPTION	CURRENT BUDGET	CHANGE	NEW BUDGET
Health	1100-5105-43530	Advertising	600	2,234	2,834
Health	1100-5105-44100	Office/Department Supplies	500	2,000	2,500
Health	1100-5105-44170	Medical/Educational Supplies	571	3,000	3,571
Health	1100-5105-46412	Technology Equipment < \$5,000	1,614	1,500	3,114
Health	1100-5105-46415	Equipment < \$500	-	1,500	1,500
Health	1100-5105-46416	Technology Equipment < \$500	218	1,145	1,363
Health	1100-5113-44100	Office/Department Supplies	1,030	3,000	4,030
Health	1100-5113-44170	Medical/Educational Supplies	1,015	3,000	4,015
Health	1100-5113-46415	Equipment < \$500	-	1,000	1,000
Recreation	1100-6120-46800	Facility Development	105,000	7,868	112,868
TOTAL CHANGES				26,247	

 AMY M. DALRYMPLE, CHAIR

 JENNIFER GAMBLE, CLERK TO THE BOARD



ITEM #:
II. I.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Purchase of a new 2019 Chevrolet Silverado 2500 HD Truck for the Emergency Services Office

DEPARTMENT: Emergency Services

CONTACT PERSON: Shane Seagroves 919-718-4670

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Approve capital purchase in the amount of \$30,058 to purchase a 2019 Chevrolet Silverado from Modern Chevrolet in Winston Salem, NC through the North Carolina Sheriff's Association Vehicle Procurement Program.
BUDGET IMPACT	Funds of \$33,000 are included in the FY 2018-2019 Emergency Services budget.
ATTACHMENTS	Bid # 18-04-0912 North Carolina Sheriff's Association Vehicle Procurement Program.
PRIOR BOARD ACTION	NA
RECOMMENDATION	Pleasure of the Board.
SUMMARY	

Emergency Services request for approval to purchase a 2019 Chevrolet Silverado 2500 HD Truck in the amount of \$30,058 from Modern Chevrolet in Winston Salem, NC through the North Carolina Sheriff's Association Vehicle Procurement Program. .



5955 UNIVERSITY PARKWAY
WINSTON SALEM, NC 27105



336-722-4191

336-531-0048 (FAX)

Date: 8/10/2018 Customer: Lee County Emergency Services

Vehicle: 2019 Chevrolet Silverado 2500HD (CK25743) 4WD Crew Cab 153.7" Color: White
Spec # 296

NC Sheriff Association Contract # 18-04-0912

Vehicle Base Price:

28726.44

Additional Options:

QXT Tires, LT265/70R17E all-terrain, blackwall
JL1 Trailer brake controller, integrated
NQF Transfer case, electronic shift
NZZ Underbody Shield, frame-mounted shields
Z82 Trailering equipment Trailering hitch
AK0 Glass, deep-tinted
B30 Floor covering, color-keyed carpeting

187
257
187
140
280
187
93

Total Vehicle Cost:

30057.44

Approved:

Date:

County/Agency:

Lee County Emergency Services / Tim Lawson

Address:

City/State/Zip:

Phone:

919-718-4670

Email:

tlawson@leecountync.gov



NORTH CAROLINA SHERIFFS' ASSOCIATION

Name of Dealership	Type of Vehicle	Zone	Base Unit Price
<u>CHEVROLET SILVERADO 2500 HD CREW CAB 4WD (Specification #296)</u>			
Modern Chevrolet	2018 Chevrolet Silverado 2500 HD	★Appalachia	\$28,726.44
Modern Chevrolet	2018 Chevrolet Silverado 2500 HD	★Dogwood	\$28,726.44
Modern Chevrolet	2018 Chevrolet Silverado 2500 HD	★Cardinal	\$28,726.44
Modern Chevrolet	2018 Chevrolet Silverado 2500 HD	★Longleaf Pine	\$28,746.44



NORTH CAROLINA SHERIFFS' ASSOCIATION
CHEVROLET SILVERADO 2500 HD CREW CAB 4WD
SPECIFICATION #296

2018 Chevrolet Silverado 2500 HD

ALL ITEMS FACTORY INSTALLED UNLESS OTHERWISE INDICATED

INSTRUCTIONS: Listed above, you will find the model numbers of the vehicles that will be included in this year's contract.

1. **ADDITIONAL**

- a. 2 Keys
- b. 5 year, 100,000 mile Powertrain Warranty

2. **MODEL/TRIM**

- a. Crew Cab

3. **MODEL NUMBER**

- a. CK25743/4WD

4. **SAFETY**

- a. Back up camera



NORTH CAROLINA SHERIFFS' ASSOCIATION
CHEVROLET SILVERADO 2500 HD CREW CAB 4WD
SPECIFICATION #296

2018 Chevrolet Silverado 2500 HD

The Chevrolet Silverado 2500 HD purchased through this contract comes with all the standard equipment as specified by the manufacturer for this model and NCSA's base vehicle specification(s) requirements which are included and made a part of this contract's vehicle base price as awarded by specification by zone.

ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$28,726.44	\$28,726.44	\$28,726.44	\$28,746.44

While the North Carolina Sheriffs' Association has attempted to identify and include those equipment items most often requested by participating agencies for full size vehicles, we realize equipment needs and preferences are going to vary from agency to agency. In an effort to incorporate flexibility into our program, we have created specific add/delete options which allow the purchaser to tailor the vehicle to their particular wants or needs.

The following equipment delete and add options and their related cost are provided here to assist you in approximating the total cost of the type vehicle(s) you wish to order through this program. Simply deduct the cost of any of the following equipment items you wish deleted from the base unit cost and/or add the cost of any equipment items you wish added to the base unit cost to determine the approximate cost of the type vehicle(s) you wish to order.

NOTE: An official listing of all add/delete options and their prices should be obtained from the appropriate dealer in your zone when preparing your order. Additional add/delete options other than those listed here may be available through the dealers, however, those listed here must be honored by the dealers in your zone at the stated prices.

VEHICLE:	Silverado 2500 HD			
DEALER:	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet
ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$28,726.44	\$28,726.44	\$28,726.44	\$28,746.44

Order Code	Delete Options	All Zones
9M4 ¹	Decal and Name Plate, Tailgate - deletes all nameplates and decals on the pickup box tailgate	NA ¹
8F2 ¹	Ornamentation - Deletes decals and nameplates on truck exterior	NA ¹
9L3 ¹	Spare Tire - Deletes the spare tire only, spare wheel and carrier remain	NA ¹
5Z4 ¹	Spare Wheel, Carrier and Lock - Deletes base spare wheel, carrier and lock. Does not delete jack or tools. (REQUIRES 9L3)	NA ¹
9G8 ¹	Daytime Running Lamps and Automatic Headlamp Control	NA ¹
U2J ¹	SiriusXM Satellite Radio (REQUIRES PCU PACKAGE)	NA ¹
	Delivery Fee	NA
Order Code	Add Options	All Zones
L5P ¹	Diesel 6.6L <i>Engine, Duramax 6.6L Turbo-Diesel V8, B20-Diesel compatible (445 hp [332 kW] @ 2800 rpm, 910 lb-ft of torque [1220 Nm] @ 1600 rpm) (Requires (MWT) Allison 1000 6-speed automatic transmission and (GT4) 3.73 rear axle ratio. Includes capped fuel fill, (K40) exhaust brake and (K05) engine block heater.)</i> ¹	\$8,399.00 ¹
AZ3 ¹	Power windows/door locks Seat trim upgrade - specify <i>Seats, front 40/20/40 split-bench, 3-passenger. Available in cloth or leather. Includes driver and front passenger recline with outboard head restraints and center fold-down armrest with storage. Also includes manually adjustable driver lumbar, lockable storage compartment in seat cushion, and storage pockets. (Includes (AG1) driver 10-way power seat-adjuster and requires (H2R) or (H0U) interior trim. Not available with (H0U) Jet Black interior trim on Double Cab.)</i> ¹	Std \$406.00 ¹
	Manufacturer's model upgrade package (specify pkg. bid)	NA
	Speed control	Std
	Tilt steering wheel	Std
	Passenger dome lamp	NA
	Bucket seats in lieu of bench seat	NA
	Carpet in lieu of rubber floor covering	NA
	Floor Mats	NA
B30 ¹	Floor Covering Color Keyed Carpeting With Rubberized Vinyl Floor Mats - Includes second row floor mats <i>Floor covering, color-keyed carpeting with rubberized vinyl floor mats (Double Cab and Crew Cabs include second row floor mats)</i> ¹	\$93.00 ¹
VAV ¹	All Weather Floor Mats, Front and Rear (REQUIRES B30) <i>LPO, All-weather Floor Mats front and rear on Crew Cab and Double Cab (dealer-installed) (Requires (B30) color-keyed carpeting.)</i> ¹	\$149.00 ¹
RWS ¹	Carpeted Floor Mats, Front and Rear (REQUIRES B30)	NA ¹
AK0 ¹	Deep tinted glass	\$187.00 ¹
	Sliding rear window	NA
	AM/FM radio with single CD	NA
	Sirius XM Satellite radio	NA

VEHICLE:	Silverado 2500 HD			
DEALER:	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet
ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$28,726.44	\$28,726.44	\$28,726.44	\$28,746.44

5H1 ¹	Additional Key(s)Two additional keys for single key system - provides total of 4 keys, keys will be cut not programed <i>Key equipment, two additional keys for single key system Provides two additional spare keys for a total of (4). (Keys will be cut but not programmed) NOTE: programming of keys is at customer's expense. Programming keys is not a warranty expense. (Not available with (9J4) rear bumper delete or (5Z4) spare wheel, carrier and lock delete. Requires (E63) pickup box.)</i> ¹	\$42.00 ¹
	Side air bags	NA
	Left-hand pillar mounted 6" spotlight in clear halogen bulb, dealer installed	NA
	Left & Right-hand pillar mounted 6" spotlight in clear halogen bulb, dealer installed	NA
	Vent visors - stick-on style	NA
	Rainshields - flange style	NA
	Bug shield	NA
DF2 ¹	Trailer tow mirrors <i>Mirrors, outside high-visibility vertical trailering, Black with manual folding and extension and lower convex spotter glass (Not available with (PCR) WT Fleet Convenience Package.)</i> ¹	\$66.00 ¹
WGG ¹	Wrap-around grille guard	NA ¹
	Aluminum tool box	NA
	Tow hooks	NA
	Class IV hitch and ball	NA
	8,000 lb. winch with remote	NA
	Heavy duty towing package up to 5,000 lbs with appropriate hitch	NA
	Heavy duty towing package up to 7,200 lbs with appropriate hitch	NA
	fiberglass cab high topper with front, side and rear windows (painted to match)	NA
	Daytime running lights	NA
	Immobilize daytime running lights	NA
	Nitrogen filled tires including spare tire	NA
	Full size spare tire and rim	NA
	Midbox body option	NA
	Steel truck cap	NA
	Cab shield headache rack (protects back of cab)	NA
	Pipe rack w/ expanded metal basket over cab (for pickup bed)	NA
	Pipe rack w/ expanded metal basket over cab (for utility body)	NA
	Single ladder rack side mounted (specify street or curbside)	NA
VK3 ¹	License Plate Kit, Front	Std ¹
8S3 ¹	Backup alarm, factory installed <i>Backup alarm, 97 decibels (Not available with SEO (SFW) back-up alarm calibration, (ZW9) pickup box delete or (UY2) trailer wiring provisions.)</i> ¹	\$128.00 ¹
	Backup alarm, dealer installed	NA
	Fiberglass tonneau cover (painted to match)	NA

VEHICLE:	Silverado 2500 HD			
DEALER:	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet
ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$28,726.44	\$28,726.44	\$28,726.44	\$28,746.44
PDM ¹	Bed Protection Package - includes VBR bed mat, VUK tailgate liner and 5JY soft folding tonneau cover (NOT AVAILABLE WITH VBN, VPB, VZX, BQT OR RW6)			NA ¹
5JY ¹	Soft Folding Tonneau Cover (REQUIRES UF2, NOT AVAILBLE WITH VPB OR RW6)			NA ¹
VPB ¹	Vinyl Tonneau Cover With Integrated Support Bows (REQUIES UF2 NOT AVAILABLE WITH 5JY OR RW6)			NA ¹
CGN ¹	Bed Liner, Spray On, Pickup Box Bed Liner, With Bowtie Logo (NOT AVAILABLE WITH VUK, VBN OR VZX)			\$462.00 ¹
CGN ¹	Bed Liner, Spray On, Pickup Box Bed Liner, With Bowtie Logo (NOT AVAILABLE WITH VUK, VBN OR VZX)			NA ¹
UF2 ¹	LED Lighting, Cargo Box - with switch on center switch bank <i>LED Lighting, cargo box with switch on center switch bank (Requires (E63) pickup box.)</i> ¹			\$116.00 ¹
UF2 ¹	LED Lighting, Cargo Box - with switch on center switch bank			NA ¹
VQT ¹	Tonneau Cover, Hard Tri-Folding With Vinyl Cover (REQUIRES UF2, NOT AVAILABLE WITH VPB, 5JY OR RW6)			NA ¹
VQT ¹	Tonneau Cover, Hard Tri-Folding With Vinyl Cover (REQUIRES UF2, NOT AVAILABLE WITH VPB, 5JY OR RW6)			NA ¹
VZX ¹	Bed liner - not available with VUK			NA ¹
VUK ¹	Tailgate Liner (NOT AVAILABLE WITH VZX)			NA ¹
VBR ¹	Rubber Bed Mat (NOT AVAILABLE WITH VZX)			\$140.00 ¹
VBN ¹	Bed Rug (NOT AVAILABLE WITH VBR OR VZX)			NA ¹
RW6 ¹	Metal Bed Storage Box (NOT AVAILBLE WITH 5JY OR VPB)			NA ¹
8S3 ¹	Back Up Alarm 97 Decibels (NOT AVAILABLE WITH SFW)			NA ¹
SFW ¹	Back Up Alarm Calibration - allows installation of an aftermarket back up alarm (NOT AVAILABLE WITH 8S3)			NA ¹
CTD ¹	Cargo Tie Downs (4) Movable Upper <i>Cargo tie downs (4), movable upper (Requires (E63) pickup box.)</i> ¹			\$56.00 ¹
Z82 ¹	Trailer Package - Includes trailer hitch, 7-pin and 4-pin connectors <i>Trailer equipment Trailing hitch platform 2.5" with a 2.0" insert for HD, 7-wire harness with independent fused trailing circuits mated to a 7-way sealed connector to hook up parking lamps, backup lamps, right and left turn signals, an electric brake lead, battery and a ground. The trailer connector also includes the 4-way for use on trailers without brakes - park, brake/turn lamps (Included with (PCN) Silverado HD Custom. Not available with (ZW9) pickup box delete or (9J4) rear bumper delete.)</i> ¹			\$280.00 ¹
G80 ¹	Differential, Heavy-Duty Locking Rear			Std ¹
JL1 ¹	Trailer Brake Controller, Integrated (REQUIRES Z82 TRAILIERING PACKAGE) <i>Trailer brake controller, integrated (Included with (PCN) Silverado HD Custom. With (E63) pickup box, requires available (Z82) trailer equipment. Available to order as a free flow option with (ZW9) pickup box delete or (9J4) rear bumper delete.)</i> ¹			\$257.00 ¹
FHS ¹	E85 Flexfuel Capable of Running On Unleaded Or Up to 85% Ethanol			NA ¹
NZZ ¹	Underbody Shield Package, Transfer Case Protection <i>Underbody Shield, frame-mounted shields includes front underbody shield starting behind front bumper and running to first cross-member, protecting front underbody, oil pan, differential case and transfer case (Included with (VYU) Snow Plow Prep Package.)</i> ¹			\$140.00 ¹
Z71 ¹	Z71 Package Off Road (REQUIRES 9G3 SUPSPENSION PACKAGE)			NA ¹

VEHICLE:	Silverado 2500 HD			
DEALER:	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet
ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$28,726.44	\$28,726.44	\$28,726.44	\$28,746.44

VQZ ¹	Polished Exhaust Tip	NA ¹
SFE ¹	Wheel Locks(set of 4)	NA ¹
BVQ ¹	Assist Steps, Chromed Tubular 6" Round (NOT AVAILABLE WITH ANY OTHER ASSIST STEPS OPTION)	NA ¹
VXJ ¹	Assist Steps, Chromed Tubular 4" Round (NOT AVAILABLE WITH RVS, RVQ, S6V or BVQ)	\$639.00 ¹
RVS ¹	Black Tubular Assist Steps 4" Round (NOT AVAILABLE WITH RVQ, VXJ S6V or BVQ)	\$587.00 ¹
RVQ ¹	Black Tubular Assist Steps 6" Rectangular (NOT AVAILABLE WITH RVS, VXJ, BVQ)	NA ¹
S6V ¹	Cargo Box Retractable side Assist Step (NOT AVAILABLE WITH RVS OR VXJ)	NA ¹
V76 ¹	Recovery Hooks, Front Frame, Mounted, Black	NA ¹
RXQ ¹	Bed Net	NA ¹
RWI ¹	Chrome Bodyside Moldings	NA ¹
SFV ¹	Black Bowtie Emblems Front and Rear	NA ¹
VQK ¹	Front and Rear Molded Splash Guards, Black (NOT AVAILABLE WITH SB1 OR VRV)	\$200.00 ¹
SB1 ¹	Flat Splash guards, Black (NOT AVAILABLE WITH VQK OR VRV)	NA ¹
VRV ¹	Body Color Molded Splash Guards (NOT AVAILALBE WITH VQK OR SB1)	NA ¹
RZ9 ¹	Grille, Bright Chrome	NA ¹
TRW ¹	Provision For Cab Roof-Mounted Lamp/Beacon - provides an instrument panel-mounted switch and electrical wiring tucked beneath the headliner for a body upfitter to connect a body-mounted warning or emergency lamp	NA ¹
PCU ¹	Fleet Base Package - Includes OnStar, SiriusXM Satellite Radio and 110 volt power outlet	NA ¹
VQL ¹	Chrome Fuel Door	NA ¹
C49 ¹	Defogger, Rear Window Electric	\$210.00 ¹
9L7 ¹	Upfitter Switches, (4)- Provides 4-30 amp circuits to facilitate installation of aftermarket electrical accessories	\$116.00 ¹
VTG ¹	Synthesis Silver Interior Trim Kit	NA ¹
E5D ¹	Interior Driver Assist Handle	NA ¹
VBJ ¹	Rear Underseat Storage, Composite Storage Bin	\$237.00 ¹
9U3 ¹	Seats, Driver and Passenger Front Individual Seats in Cloth Trim - 20% section removed, seats manual not power. Does not include a floor console, all exposed floor area will remain untrimmed. Standard cloth rear seat with trim matching front seats will be provided	NA ¹
5T5 ¹	Seats, 2nd Row Vinyl With Front Cloth Seats	NA ¹
8X1 ¹	Fasten Safety Belts - reminder label on right hand and left hand front side door glass	NA ¹
5L5 ¹	Theft Deterrent System Fleet Immobilizer Modification - in the absence of master key, reduces roadside key relearn process to (3) two-minute cycles in place of (3) ten-minute cycles	NA ¹
9B9 ¹	Governor, Electronic Speed Sensor Set to 70MPH	NA ¹
6C7 ¹	Lighting Read and White Front Auxiliary Dome, Read and White Auxiliary Dome Lamp - located on headliner between front row seats	NA ¹
6J7 ¹	Flasher System, headlamp and taillamp, DRL compatible with control wire	NA ¹
7X7 ¹	Spotlamps Left and Right Hand (NOT AVAILABLE WITH 7X6)	NA ¹

VEHICLE:	Silverado 2500 HD			
DEALER:	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet
ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$28,726.44	\$28,726.44	\$28,726.44	\$28,746.44
7X6 ¹	Spotlamp Left Hand (NOT AVAILALBE WITH 7X7)			NA ¹
6J4 ¹	Wiring Horn and Siren Circuit			NA ¹
6J3 ¹	Wiring Grille Lamps and Siren Speakers			NA ¹
GU6 ¹	Rear Axle, 3.42 Ratio			NA ¹
QXT ¹	Tires, P265/70R17 All Terrain, Blackwall <i>Tires, LT265/70R17E all-terrain, blackwall¹</i>			\$187.00 ¹
DPN ¹	Mirrors- Outside heated power adjustable vertical camper upper glass, manual folding and extending black <i>Mirrors, outside heated power-adjustable vertical trailering, upper glass, manual-folding and extending, Black; Includes integrated turn signal indicators consisting of 51 square inch flat mirror surface positioned over a 24.5 square inch convex mirror surface with a common head and lower convex spotter glass (convex glass is not heated and not power adjustable) and addition of auxiliary cargo lamp for backing up (helps to see trailer when backing up with a trailer) and amber auxiliary clearance lamp (Requires (PCR) WT Fleet Convenience Package or (PCN) Silverado HD Custom and includes (DD8) auto-dimming inside rearview mirror.) (Replaces the standard power folding feature with manual folding.)¹</i>			\$326.00 ¹
RC5 ¹	Tires, LT265/70R17C All Terrain, Blackwall			NA ¹
AZ3 ¹	Seats, Front 40/20/40 Split Bench, 3 Passenger, Available in Cloth – Includes driver and front passenger recline with outboard head restraints and center fold down armrest with storage, also includes manually adjustable driver lumbar, lockable storage compartment in seat cushion, storage pockets, driver 10 way power seat adjuster.			NA ¹
9G3 ¹	Suspension Package, Off-Road, For Base Décor Vehicles - Includes Z71 off road suspension components, recovery hooks, high capacity air cleaner and transfer case shield. Does not include Z71 appearance features. (REQUIRES G80, RC3 OR RC5 TIRES. NOT AVAILALBLE WITH VLQ) <i>Suspension Package, off-road, for base decor vehicles Requires 4WD. Includes Z71 Off Road Suspension components, twin-tube Rancho brand shocks and (NZZ) Underbody Shield Does not include any "Z71" appearance features or (JHD) Hill Descent Control. (Requires (Z82) trailering equipment and either (QXT) LT265/70R17E all-terrain, blackwall tires, (QGM) LT265/70R18E all-terrain, blackwall tires or (QF2) LT275/65R18E 123/120Q maximum traction blackwall Goodyear Wrangler DuraTrac tire. Not available with (T3U) fog lamps, (JHD) Hill Decent Control or (ZW9) pickup box delete.)¹</i>			\$257.00 ¹
R9Y ¹	Fleet Free Maintenance Credit. This option code provides a credit in lieu of the free oil changes, tire rotations and inspections (2 maximum), during the first 24 months and 24,000 miles period for this ordered vehicle. The invoice will detail the applicable credit. The customer will be responsible for all oil change, tire rotations and inspections costs for this vehicle.; 1 - Requires one of the following Fleet or Government order types: FBC, FBN, FCA, FCN, FLS, FNR, FRC or FGO. Not available			\$79.20 ¹
PCR ¹	Optional equipment - specify <i>WT Fleet Convenience Package includes (DL8) outside heated power-adjustable mirrors, (A91) remote locking tailgate and (AQQ) Remote Keyless Entry (Upgradeable to (DPN) Mirror Not available with (DF2) Mirror. If (ZW9) pickup box delete is ordered (A91) remote locking tailgate will not be included.)¹</i>			\$336.00 ¹
VYU ¹	Optional equipment - specify <i>Snow Plow Prep Package includes power feed for backup and roof emergency light, (KW5) 220-amp alternator with gas or diesel engine, forward lamp wiring harness, (TRW) provision for cab roof mounted lamp/beacon, (NZZ) underbody shields and Heavy-Duty front-springs (Only available on 4WD models. Included with (ANQ) Alaskan Snow Plow Special Edition. Upgradeable to (KHB) dual, 150 amps and 220 amps each alternators with (L5P) Duramax 6.6L Turbo-Diesel V8 engine.)¹</i>			\$359.00 ¹
NQF ¹	Optional equipment - specify <i>Transfer case, electronic shift with rotary dial controls (Requires 4WD models.)¹</i>			\$187.00 ¹

VEHICLE:	Silverado 2500 HD			
DEALER:	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet	Modern Chevrolet
ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$28,726.44	\$28,726.44	\$28,726.44	\$28,746.44

KI4 ¹	Optional equipment - specify <i>Power outlet, 110-volt AC</i> ¹			\$140.00 ¹
PYQ ¹	Optional equipment - specify <i>Wheels, 17" (43.2 cm) machined aluminum includes 17" x 7.5" (43.2 cm x 19.1 cm) steel spare wheel. Spare not included with (ZW9) pickup box delete unless a spare tire is ordered.</i> ¹			\$466.00 ¹

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

ITEM #:
II. J.

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Purchase of Convection Steamer

DEPARTMENT: Lee County Jail

CONTACT PERSON: Cpt. Wade Barker

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Approve the purchase of a Convection Steamer for the jail kitchen.
BUDGET IMPACT	The cost of the steamer is \$9,729.14 plus \$1,546.00 for installation. The total cost is \$11,275.14
ATTACHMENTS	Quote from Douglas Equipment and a Bid Tabulation Sheet
PRIOR BOARD ACTION	An amount of \$12,395.00 was approved in the 2018-2019 budget
RECOMMENDATION	Approve the purchase of a Convection Steamer from Douglas Equipment.
SUMMARY	

A new Convection Steamer is needed for the Jail kitchen. The existing steamer is old and constantly breaking down. It is getting costly to maintain the existing steamer. Repairs were needed 3-4 times last budget year. A steamer is needed for cooking large amounts of food and would benefit the Jail and the Enrichment Center.

LEE COUNTY, NORTH CAROLINA
 FINANCE DEPARTMENT
 PO BOX 1968, SANFORD NC 27331-1968

Bid Tabulation Sheet

August 6, 2018 @ 4:00 PM EST
 Date/Time

4320-01-19 Direct Steam Convection Steamer
 Description on Sealed Bid

Bidder/Address	Bid Amount
Central Restaurant Products 7750 Georgetown Rd. Indianapolis, IN 46268 1-800-215-9293	Late Bid
Global Industrial 11 Harbor Park Drive Port Washington, NY 11050 1-888-978-7759	No Bid
Allstate Restaurant Equipment 870 S. Elm St. Greensboro, NC 27406 336-274-8728	No Bid
Douglas Equipment Bluefield, WV 24701	\$ 9,729.14 xx \$ 11,275.14
Pueblo Hotel Supply 430 W. 4th St. Pueblo, CO 81003	\$ 12,661.99
Stafford-Smith, Inc 3114 S. Burdick St. Kalamazoo, MI 49001	\$ 11,400.00

D. Oldham
 Bids Opened By

8-6-18



Project:
 #23961 Lee County Jail
 1401 Elm Street
 Sanford, NC 27330

From:
 Douglas Equipment
 Zachary Nieto
 301 North St.
 Bluefield, WV 24701-4048
 304-327-0149

Job Reference Number: 8870

****Quoted at your NET pricing. No other discounts apply.****

Item	Qty	Description	Sell	Sell Total
1	1 ea	CONVECTION STEAMER, DIRECT STEAM Vulcan Model No. C24DA6 Convection Steamer, Direct Steam (Potable/Clean Steam), 2 compartments on 24" cabinet base, (6) 12" x 20" x 2-1/2" deep total pan capacity, manual control with 60-minute timer with buzzer each compartment, single water line for drain tempering, stainless steel interior, exterior, frame & flanged feet, 2.4 BHP	\$9,729.14	\$9,729.14
	1 ea	1 year limited parts & labor warranty, standard		
			ITEM TOTAL:	\$9,729.14
2	1 ea	INSTALLATION Custom Model No. INSTALLATION Installation of Convection Steamer. **Does NOT include any utility upgrades or modifications. **No removal and disposal of existing unti. If needed we can revise	\$1,546.00	\$1,546.00
			ITEM TOTAL:	\$1,546.00
			Total	\$11,275.14

Acceptance: _____ Date: _____

Printed Name: _____

Project Grand Total: \$11,275.14

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

ITEM #:
II. K.

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Request to lease an office in the Buggy Building on the 3rd floor.

DEPARTMENT: Progressive Contracting Company, Inc.

CONTACT PERSON: Joni Martin

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Request to from Marco Angeles of Angeles Construction to lease an office on the third floor of the Buggy Building.
BUDGET IMPACT	N/A
ATTACHMENTS	Memorandum from Progressive Contracting Company, Illustration of Office Space
PRIOR BOARD ACTION	N/A
RECOMMENDATION	Approve request to lease Office C in Suite 304 to Marco Angeles with Angeles Construction.
SUMMARY	

Marco Angeles of Angeles Construction, a concrete contractor has submitted a request to lease Office C in Suite 304, in the Sanford Buggy Company Building to be used for estimator services. If this space is leased, the 3rd floor will be fully leased.



143 Charlotte Avenue, Suite 201
Sanford, North Carolina 27330
Tel: 919.718.5454 Fax: 919.718.5455

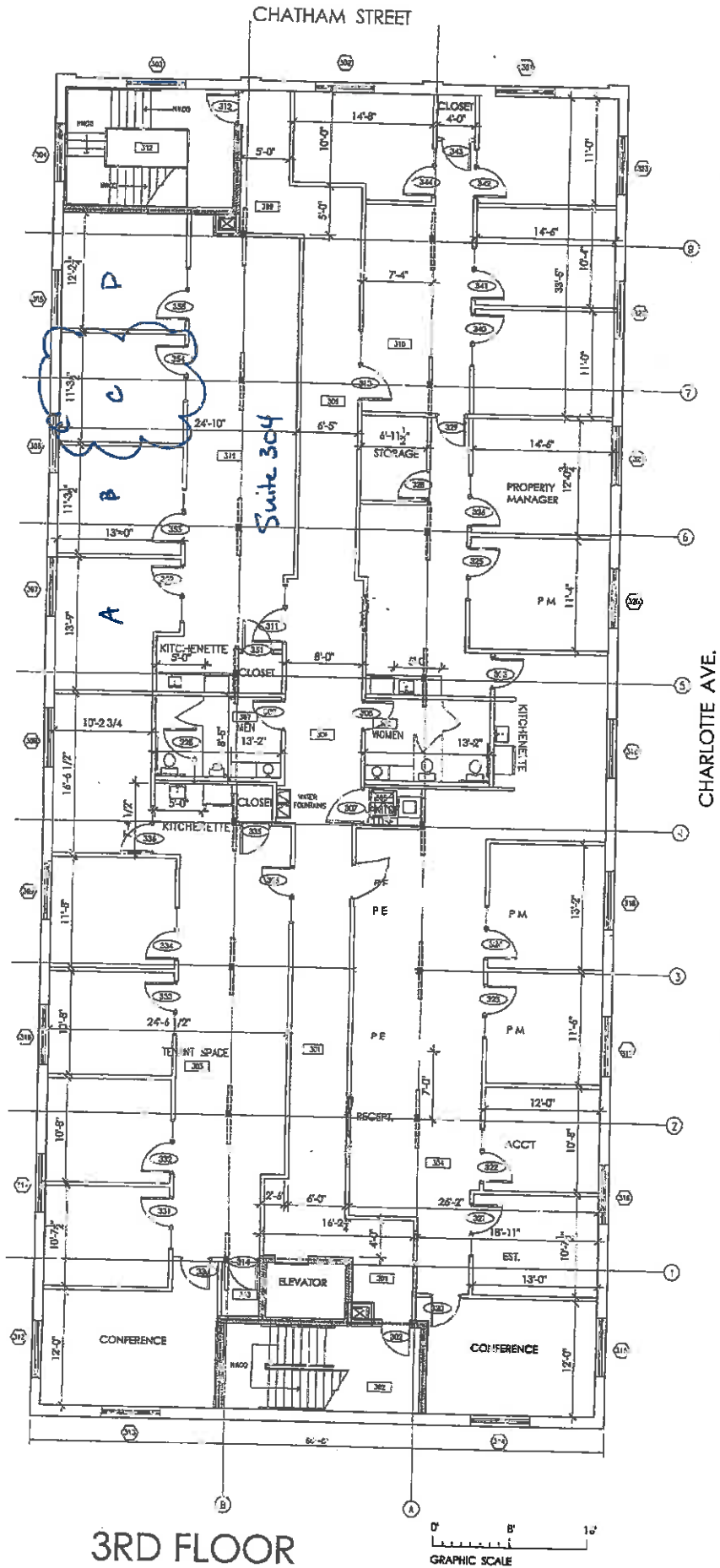
MEMORANDUM:

To: Lee County Manager and Lee County Commissioners

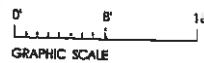
From: Joni Martin, Progressive Contracting Company, INC.

Date: August 13, 2018

Progressive Development Company, Inc. would like to request approval to lease Office C in Suite 304, in the Sanford Buggy Company Building to Marco Angeles of Angeles Construction, a concrete contractor (office to be used for estimator). If this space is leased the 3rd floor will be completely leased. See attached document for location of the proposed office suite. This request is made per the executed Commercial Lease Agreement, Item Number Three, Use.



3RD FLOOR



LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

ITEM #:
III. A.

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Proclamation recognizing the Lee County 12U All-Stars for winning the Dixie Youth State Championship.

DEPARTMENT: Governing Body

CONTACT PERSON: Jennifer Gamble, Clerk to the Board

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Adopt proclamation recognizing the Lee County 12U All-Stars for winning the Dixie Youth State Championship.
BUDGET IMPACT	N/A
ATTACHMENTS	Proclamation
PRIOR BOARD ACTION	None
RECOMMENDATION	Adopt proclamation recognizing the Lee County 12U All-Stars for winning the Dixie Youth State Championship.
SUMMARY	

The Lee County Parks and Recreation 12U All Star team won the Dixie Youth League 12U State Championship in Eden, NC in July and participated in the Dixie Youth Baseball World Series at the beginning of August. This was the second time in the past three years the team has won the state championship.

LEE COUNTY

NORTH CAROLINA

Committed Today for a Better Tomorrow

PROCLAMATION

WHEREAS, the Lee County Parks and Recreation (LCPR) 12-and-under (12U) All-Stars Youth Baseball Team exhibited hard work, dedication, sportsmanship, talent and exceptional team chemistry to earn a trip to the 2018 Dixie Youth Ozone World Series; and,

WHEREAS, the 12U All-Stars won the 2018 North Carolina Dixie Youth State Championship in Eden, NC with a series of dominating performances that set up a three-way championship round; and,

WHEREAS, under the leadership and guidance of Head Coach Brad Wilson and Assistant Coaches Vinnie Frazer, and Travis Seymour, the Team defeated both Kings Mountain and South Stanly to win the state title; and,

WHEREAS, the Lee County Board of Commissioners recognizes the LCPR 12U All-Stars Youth Baseball Team members Cooper Harrington, Austin Ragan, Josh Hall, Bryson Pope, Drew Stanfield, DeRaye McLean, Devon Kroft, Lawton Hickman, Charlie Jeffries, Thomas Frazer, Cameron Richey and Marcus Tate-Blanks for the accomplishments they demonstrated over the past several months and for their commitment, perseverance and love of the sport of baseball; and,

WHEREAS, the Team represented Lee County and the State of North Carolina admirably in the 2018 Dixie Youth Ozone World Series in Lumberton, NC to close out a remarkable 2018 baseball season.

NOW, THEREFORE BE IT RESOLVED, that the Lee County Board of Commissioners proclaim August 2018 as ***Lee County Parks & Recreation 12-and-Under All-Stars Youth Baseball Team Month*** in Lee County, North Carolina and call upon

LEE COUNTY

NORTH CAROLINA

Committed Today for a Better Tomorrow

residents to observe this month recognizing and celebrating the Team and their contributions to and successes shared with the Lee County community.

Dated this the ____ day of July, 2018.

Amy M. Dalrymple, Chair

Lee County Board of Commissioners

ATTEST:

Jennifer Gamble, Clerk

Lee County Board of Commissioners

ITEM #:
III. B.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Request to Appear from Lee County Young Commissioner Angel Uy

DEPARTMENT: N/A

CONTACT PERSON: Angel Uy

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Request to appear to present to the Board of Commissioners regarding experience in the Young Commissioners Program.
BUDGET IMPACT	N/A
ATTACHMENTS	Request to Appear Form
PRIOR BOARD ACTION	None
RECOMMENDATION	N/A
SUMMARY	

Lee County Young commissioner Angel Uy will present to the Board of Commissioners about being a Lee County Young Commissioner and how it has made an impact on her life. Ms. Uy will be attending the upcoming North Carolina Association of County Commissioners meeting.

COUNTY OF LEE

REQUEST TO APPEAR BEFORE THE BOARD OF COMMISSIONERS

According to adopted rules of procedure, any individual who wishes to appear before the Board of Commissioners must complete this request form and submit it no later than six (6) working days prior to the date of the scheduled meeting. Your request should be specific and provide sufficient information which will allow the Board to consider the matter. Copies of any supporting material should be included with this request form. Individuals requesting to appear on the agenda will be granted a maximum of ten (10) minutes to make their presentation.

Name: Angel Uy

Address: 10 Bassett Hall Lane Sanford, North Carolina 27330

Telephone Number: 919-721-3025

E-mail Address: angelkuy8@gmail.com

Date of Meeting You Wish to Appear At: August 20, 2018

Please describe in detail the matter you would like to discuss:

I will be attending NCACC and I need to speak at the meeting before I go. I will just speak about being a Lee County Young Commissioner and how it has made an impact on me. I will thank the Board of Commissioners for their support and let them know I will be attending North Carolina Association of County Commissioners; and I look forward to seeing them there.

County of Lee Commissioners
Angel Kristine M. Uy
REGISTERED PROFESSIONAL ACCOUNTANT

Signature

August 09, 2018

Date

ITEM #:
V. A.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Consideration of instructing staff to enter into negotiations and a fee arrangement with a national law firm to represent the County in the opioid litigation

DEPARTMENT: Administration/Legal

CONTACT PERSON: John Crumpton/Whitney Parrish/Jennifer Gamble

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Consideration of instructing staff to enter into negotiations and a fee arrangement with a national law firm to representation the County in the opioid litigation
BUDGET IMPACT	Uncertain at this time
ATTACHMENTS	N/A
PRIOR BOARD ACTION	At the May 21, 2018 regular meeting, the Board received responses from a request for information from two law firms interested in representing Lee County in the opioid litigation and at the July 23 regular meeting, the Board heard presentations from two law firms.
RECOMMENDATION	Pleasure of the Board
SUMMARY	

At the April 16, 2018 regular Board of Commissioners meeting, the Board voted to authorize staff to issue a request for information for law firms who are interested in representing Lee County in any potential opioid litigation. On May 21, 2018, the Board received information submitted by two firms national law firms- Mike Fuller on behalf of McHugh Fuller Law and Julie Bond on behalf of Simmons Hanly Conroy. The McHugh Fuller Law Firm provided a copy of the Buncombe County lawsuit and a sample Lee County complaint. Due to the size of those documents, a copy is being retained at the Clerk's office for anyone to review.

At the May 21, 2018 meeting, the Board decided to allow the two firms to give presentations of their case and legal strategy. Staff has had multiple discussions with each group and has asked many questions in reference to this multi-district litigation.

At the July 23, 2018 regular meeting of the Board, the Board heard presentations from both law firms regarding the theories of their cases and an update on where all of the cases are currently being litigated under the Multi-District Litigation.

At this time, the Board may instruct staff to enter into negotiations with one of the law firms to agree on a fee arrangement and contract with said firm that is satisfactory to the legal department. The Board can go ahead and authorize the Chair to sign the agreement. In the meantime, staff will continue working to find how the opioid epidemic is affecting the County. That information will be critical to gather before suit is filed.



ITEM #:
V. B.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Consideration of an upset bid on Lemon Springs Road PIN 9549-17-7784-00, Lee County North Carolina

DEPARTMENT: Legal

CONTACT PERSON: Whitney Parrish

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	To consider an upset bid on property located on Lemon Springs Road, PIN 9549-17-7784-00, Lee County North Carolina from Charlie Martin
BUDGET IMPACT	N/A
ATTACHMENTS	Offer letter, receipt of advertising, affidavit of advertising
PRIOR BOARD ACTION	N/A
RECOMMENDATION	Pleasure of the Board
SUMMARY	

The County of Lee foreclosed on the property located at PIN 9549-17-7784-00 in 2017. Currently, what is owed on the property is \$6,221.95, which includes the taxes and attorney fees owed. The Current tax value of the property \$13,000.00. Charlie Martin submitted an offer to purchase the above mentioned property for \$1,000.00. Mr. Martin submitted the requisite 5% deposit and advertising costs.

At its July 23, 2018 regular meeting of the Lee County Board of Commissioners, the Board voted to sell this property through the upset bid procedure, following NCGS 153A-176 and 160A-269. The Board declared the property surplus and accepted the initial offer of \$1,000.00 from Mr. Martin. Mr. Martin's offer was advertised in *The Sanford Herald* on August 2, 2018. During the upset bid period, Mr. David Taylor submitted an upset bid of \$1,100.00 on August 7, 2018. At that time Mr. Taylor paid his 5% deposit and advertising costs. The Board can now accept the first upset bid and authorize the upset bid to be advertised in *The Sanford Herald*.

REAL ESTATE OFFER

Date: 8-7-2018

I, David Taylor, hereby submit an offer to purchase real property located at:

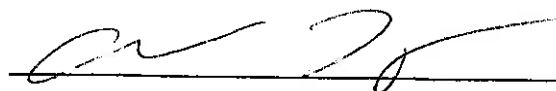
ADDRESS: 0 Lemon Springs Rd

PIN #: 9549-17-7784-00

OFFER AMOUNT: \$ 1,100.00

Please read the following before signing below:

- All offers require an upfront payment of a bid deposit in the amount of 5% of the offer amount and payment of advertising costs with payment to be made in cash, cashiers or certified check
- Advertising costs are non-refundable
- Purchase of property is contingent on the approval of the Lee County Board of Commissioners and/or the Sanford City Council and any other entity joining in ownership of the above property
- All offers are subject to the upset bid process
- Property is sold "as is" with no conditions placed on the bid
- Title to the property shall be transferred to the buyer by a nonwarranty deed. County Attorney does not provide a title search and buyer is welcome to retain a private attorney for the closing
- The County reserves the right to withdraw the property from sale at any time before the final high bid is accepted and has the right to reject all bids at any time
- Final payment of the remaining balance will be due at closing

 (Signature)

BIDD FORM 1 • Carbonless • 51554-NCR Duplicate • 51627N-CI TriPLICATE

DATE 8-7-18 RECEIPT 495056

RECEIVED FROM David Taylor

Address

Two hundred fifty five + no/100 DOLLARS \$ 255.00

FOR DeLomon Sprinkler 9549-17-7784-00

1st upset bid - 5% bid deposit + advertising

U. Co. Finance

ACCOUNT		HOW PAID	
BEGINNING BALANCE		CASH	
AMOUNT PAID		CHECK	
BALANCE DUE		MONEY ORDER	

BY C. Confair

Whitney Parrish

From: "Brooke Cruz" <sanfordherald@sanfordherald.com>
Sent: Tuesday, July 31, 2018 1:50 PM
To: Whitney Parrish
Subject: [EXTERNAL]Re: Advertising-Surplus Property Lee County

CAUTION: External Email. Do not click links or open attachments unless verified. Send all suspicious email as an attachment to Whitney,

Brooke is out of the office today. Your receipt for the Lemon Springs legal notice publishing on Thursday is below.

JENNIFER GAMBLE
LEE COUNTY ATTORNEY'S OFFICE
106 HILLCREST DR
SANFORD, NC 27330
(919)718-4610

Class Liner Ad #30826909 Summary:

Slug Line: LEMON SPRINGS
Size: 1.00 x 10.86

Publication Cost \$152.25
Adjustments \$0.00
Net Cost \$152.25
Prepaid Amount \$0.00
Amount Due \$152.25

Order Detail:

Publication	Start	Stop	Insertions	Cost	Adjustments	Total
20SF The Sanford Herald	8/2/18	8/2/18	1	152.25	0.00	152.25



Brooke Cruz
Classifieds Rep.
The Sanford Herald
Phone: 919-718-1221

On Tue, 31 Jul 2018 17:23:03 +0000, Whitney Parrish wrote:

AFFP
LEMON SPRINGS

NOTICE OF AN OFFER TO
PURCHASE PROPERTY
OWNED BY LEE COUNTY
BEING ADVERTISED PUR-
SUANT TO NCGS §153A-176

Affidavit of Publication

STATE OF NORTH CAROLINA }
COUNTY OF } *Lee* SS

Lisa Robertson, being duly sworn, says:

That she is Billing Clerk of the The Sanford Herald, a daily newspaper of general circulation, printed and published in Sanford, County, North Carolina; that the publication, evidenced hereto, was published in the said newspaper on the following dates:

August 02, 2018

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

Lisa Robertson
Billing Clerk

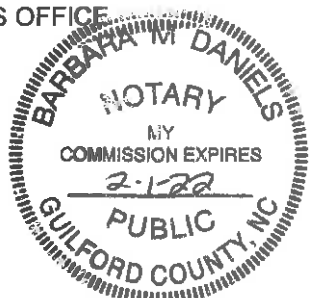
Subscribed to and sworn to me this 2nd day of August 2018.

Barbara M Daniels
Barbara Daniels, Guilford, Notary, County, North Carolina

My commission expires: February 01, 2022

30029901 30826909

JENNIFER GAMBLE
LEE COUNTY ATTORNEY'S OFFICE
106 HILLCREST DR
SANFORD, NC 27330



TAKE NOTICE that Lee County has received an offer to purchase the parcel of property located in at 0 Lemon Springs Road Lot 2, PIN 9549-17-7784-00, Lee County herein below described, for the sum of one thousand dollars (\$1,000.00). The taxable value of the property is thirteen thousand dollars (\$13,000.00). This property is being offered for sale under the upset bid procedures prescribed in NCGS § 153A-176 and § 160A-269 and pursuant to resolution adopted by the Board of Commissioners on July 23, 2018.

Within ten (10) days hereof, any person, firm, or corporation interested in purchasing the property may raise the bid. The above referenced bid must be raised by not less than ten percent (10%) of the first \$1,000.00 and five percent (5%) of the remainder. When a bid is raised, the bidder shall deposit with the County Clerk five percent (5%) of the increased bid amount and shall be responsible for all advertising costs. The Clerk's office is located at 408 Summit Drive, Sanford NC. The Clerk shall readvertise the offer at the increased bid amount. This procedure will be repeated until no further qualifying upset bids are received, at which time the Lee County Board of Commissioners may accept the offer and sell the property to the highest bidder. The Board of Commissioners may, at any time, reject any and all offers. All sales are "as-is/where-is" with no warranties as to condition, habitability, or environmental matters. Title will be transferred by nonwarranty deed. Balance of purchase price is due upon closing.

The Subject Property is described as follows:

Parcel located at 0 Lemon Springs Road, Lot 2 PIN 9549-17-7784-00, in Lee County, Sanford, NC, also being that property described in Deed Book 01470 at page 0689, in the Lee County Registry, subject to any and all encumbrances and liens of record.

This the 2ND day of August, 2018.

Jennifer Gamble, COUNTY CLERK

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

ITEM #:
V. C.

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Parks and Recreation Report on Projects and Bonds

DEPARTMENT: Administration

CONTACT PERSON: John Crumpton, County Manager

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Report to the Board regarding Parks and Recreation Projects and Bonds
BUDGET IMPACT	N/A
ATTACHMENTS	Memorandum summarizing Bond Budget and Projects Master Plan for each Park with Cost Estimates
PRIOR BOARD ACTION	Approve sale of bonds/Approved Withers and Ravenel to develop Master Plans.
RECOMMENDATION	Establish Priorities and Authorize Staff to work with Withers and Ravenel to get projects out to bid.
SUMMARY	

Attached are the Master Plans for Horton, Temple, O.T. Sloan, and Kiwanis Children's Parks. In addition, I have prepared a memo summarizing the plans and recommendations from staff for moving forward the bond proceeds. At last month's meeting, the plans including input from citizen were presented to the Commissioners. Based on the funds borrowed and capital funds set aside for the Kiwanis Family Park, staff is recommending that we move forward with bidding certain elements in each park. The attached memo summarizes those recommendations.

Memorandum

TO: Lee County Board of Commissioners

FROM: John A. Crumpton, County Manager

RE: Parks and Recreation Projects

DATE: August 20, 2018

Per our previous discussions, attached please find the master plan and cost estimates for the bond projects at our parks. As a reminder, below is the estimated budgets we presented to the Local Government Commission for each Park. Funds may be moved between parks, but funds need to be spent in each park:

OT Sloan Park - \$750,000
Horton Park - \$500,000
Kiwanis Children Park - \$400,000
Temple Park - \$200,000
Broadway Park - \$150,000

The total of the bonds for the Parks is \$2,000,000. In addition, capital project funds have been set aside for Kiwanis Children park over the last two budgets. These annual funds will contribute an additional \$100,000 to this park.

As you will see, the \$2,000,000 bond budget will address the minimal needs and desires of the public when it comes to what type of programs our citizens are seeking in our Parks. The totals for O.T. Sloan, Horton, Kiwanis Children Park, and Temple exceeds \$33,000,000. Major CIP projects are mainly at O.T. Sloan Park. These projects are a new Community Center facility for gymnastics, volleyball, basketball and Parks and Recreation Department offices, major renovations to the Pool Facility and a new Soccer/Rectangle stadium. Immediate needs at O.T. Sloan are the renovations of tennis court facilities, additional parking and the rearrangement of ingress and egress to the Park.

Horton Park renovations and additions include a new mini-splash pad, playground improvements and general landscape improvements. Temple Park improvements are converting the softball fields to open play areas, a basketball court and park equipment. Kiwanis Children Park improvements and upgrades center around the City of Sanford's extension of the greenway system into the park and a new round-about that the NCDOT will be constructing at the intersection of Wicker and Carthage Streets. The relocation of two tennis courts will be needed to fit the greenway through the park. Since LWCF funds were used for the tennis courts, the County is obligated to keep four courts in the park. With additional lining on the courts, the relocation of two of the courts will allow both tennis and pickle ball to be played on these courts. Finally, a major new bathroom/shelter facility is proposed as both a trailhead and park facility.

In general, due to the conditions of the tennis courts at both O.T. Sloan and Kiwanis Children's Park and conditions set forth in the LWCF grants, the repair and relocation of the courts is deemed the priority by staff. After the tennis courts, the playground equipment needs to be addressed at each park. We have equipment that is approaching 50 years of age and needs to be replaced. In Broadway, the funds allocated in the bond budget will be used to address roof, building and shelter repairs and upgrades at

Lett Family Park. Therefore, by Park the following is what we are recommending we move forward on and seek bids through our consultant (phase one in the master plan):

O.T. Sloan – Tennis Courts, Access Improvements, Disc Golf Relocations, and Shelter Improvements.

Horton Park – Mini Splash Pad, Sidewalks, Playgrounds and Parking.

Temple Park – Remove softball fields, create open space, and address storm water drain issue.

Kiwanis Children Park – Repair the upper two courts, playground upgrade, and parking lot repairs.

Broadway Park – County Staff will coordinate this work – repair existing facilities and improve fields.

Based on the phase one estimates provided by Withers and Ravenel, all of these projects will fall below the amount budgeted for each Park. All bids will need to be approved by the Board of Commissioners.

Like many of the needs in the County, most of the facilities mentioned in this Master Plan and the plan developed by the City for a Multi-sports complex will need to be addressed by a bond referendum to the voters of Lee County. In the next CIP, all of these projects will be placed into the managers recommended plan. If these facilities are to be addressed, then a plan needs to be put in place to present a referendum to the voters in the 2020 election cycle.

In conclusion, the needs and wants of the community far exceed the county's ability to pay. The Board of Commissioners needs to review the plans presented to the Board and the estimated costs and set the priorities so we can move forward. Staff's recommendation is to begin immediately on the tennis courts and new playground equipment and then move onto other parts of the plan with the funds that remain.

INTERIM DRAFT
AUGUST 8, 2018



O.T. SLOAN PARK

MASTER PLAN



Interim Draft Publish Date : July XX, 2018

Lee County
Parks & Recreation Department
2303 Tramway Road
Sanford, NC 27331
[https://leecountync.gov/
Departments/ParksRecreation](https://leecountync.gov/Departments/ParksRecreation)

This document has been prepared by WitherRavenel on behalf of The Lee County Parks and Recreation Department. Reproduction or distribution of this document and its contents are prohibited without approval of the Lee County Parks and Recreation Department. All contents of this document are the property of Lee County.

DRAFT



ACKNOWLEDGMENTS



County Commissioners

Chair

Amy Dalrymple - District At-Large

Vice Chairman

Tim Sloan - District 2

Cameron Sharpe - District At-Large

Kevin Dodson - District At-Large

Robert T. Reives - District 1

Dr. Andrew Knecht - District 3

Larry "Doc" Oldham - District 4

County Manager

John Crumpton

Clerk to the Board of County Commissioners

Jennifer Gamble

County Attorney

Whitney Parrish

Parks and Recreation Director

John Payne

General Services Director

Russel Spivey

Consultants

WithersRavenel

J Thomas Engineering

HMC Architectures

DRAFT

TABLE OF CONTENTS

■	Project Process and Purpose	6
■	Inventory and Analysis	8
■	Park Programming & Concept Development	14
■	Public Involvement	16
■	Final Park Concept and Precedent Images	18
■	Architectural Elements	23
■	Estimate of Probable Cost	28
■	Implementation Strategy & Phasing Recommendations	30

PROJECT PURPOSE AND PROCESS

PROJECT PURPOSE

The purpose of The Lee County Parks Master Plans is to establish a master plan vision for Lee County's parks with the objective of providing the Citizens of Lee County and the City of Sanford with quality parks and recreation facilities that support a healthy and vibrant quality of life for the area.

MASTER PLAN PROCESS

This master plan process is intended to better identify the needs of the community through a systematic method of research and community involvement. This approach extends beyond the specific property lines of the park in order to develop a cohesive plan that connects the park to the surrounding neighborhoods and provide an improved park experience for the residents that use them. O.T. Sloan Park serves as important asset to the community, and this process is intended to insure that it continues to provide quality recreation experiences for future generations to come. Research is the first step in the park planning process.

Considering the unique aspects O.T. Sloan Park, this step relied on research and inventory of existing conditions of the park and surrounding area, as well as an analysis of previous planning documents like the Lee County Parks and Recreation Master Plan Update. Programming research also included the analysis of both park and program precedents that were consistent with stakeholder input.

The next step used a synthesis of information to develop a list of opportunities and challenges for the park and surrounding area. These include considerations such as better pedestrian connections, improved

Public Open House Meeting



PROJECT PURPOSE AND PROCESS

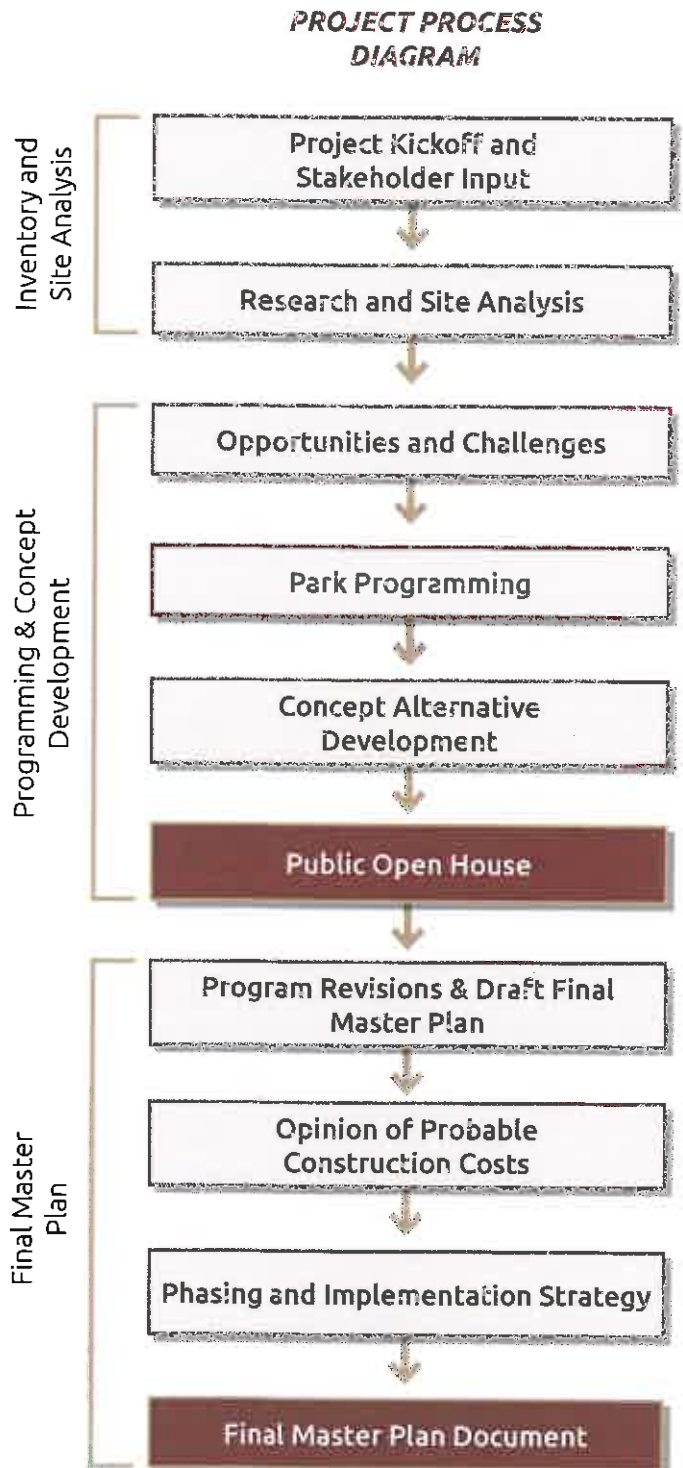
parking and vehicular circulation, programming needs and sustainable practices. This led to defining form, function and programming for the park through a concept development process that considered multiple alternatives

Refined Alternative Development was the next phase of the process and began after initial form and function concepts were completed. Refinement of the concept alternatives focused on more detailed components such as sidewalk placement parking layouts, and amenity locations and size.

After the development of a concept alternatives for each park, a summary of the process and the alternatives was presented to the public at an open house. Effective public involvement is the key to a successful planning process. The process employed during this project provides transparency of the research and analysis with stakeholders and the general public to insure the needs of the public are met. Community input is integrated throughout the process and helped in the development of a cohesive park plan.

The public open house included a presentation of all site analysis findings, park programming precedent images, and concept alternatives for all four park locations. Consensus on programming and park development is the most important outcome of public involvement, ideally resulting in a preferred alternative for each park.

After receiving public input, the final step is the preparation of a Final Park Master Plan. This began with further development of the preferred alternative, including construction cost estimates. The finalized preferred alternative was then presented to the public through a second public meeting. After public input is gathered, an implementation meeting was held with county representatives to discuss funding priorities, strategies, and proposed phasing. After this was completed, the project team provided this Final Master Plan Document that will be a narrative and graphic compilation of the entire process. This document will then be presented to the Board of Commissioners for final adoption.



RESEARCH AND SITE ANALYSIS

SITE CONTEXT

Address: 1420 Bragg St, Sanford, NC
Area: 40.28 acres

O. T. Sloan Park, one of the oldest community parks in Lee County, is located off Bragg Street, near Lee County High School and Chatham County Community College. The main entry drive to the park is located on Bragg Street. A sidewalk connects with the Sanford High School. The park is bounded by commercial properties on the south, the Sanford Correctional Center on the north, and CSX Railroad and Little Buffalo creek along the western edge. The east edge of the park property is adjacent to Bragg Street, several single-family residential properties and a new bank currently under construction at the intersection of Bragg and Nash Streets.

EXISTING PARK AMENITIES

Existing park amenities at O.T. Sloan include:

- Three (3) parking areas: gravel area (approx. 90 vehicles), asphalt area (approx. 256 vehicles), concrete area (20 vehicles)
- Picnic shelter/ Concession/ Restroom building
- Playground
- Picnic area
- Open play areas
- Swimming and diving complex
- Disc golf course
- Dog park (2 areas – small and large dogs)
- Tennis courts (6)
- Concession stand at tennis complex
- Picnic shelter at tennis complex
- Softball/baseball fields (2)
- Boys and Girls Club facility (approx. 15,800 sq. ft.)

Vicinity Aerial



Swimming Pool House



RESEARCH AND SITE ANALYSIS

SITE OBSERVATIONS

O. T. Sloan Park is set among a mature grove of trees, mainly oaks, pines, and poplars. Currently there are two (2) entrances to the park, both from Bragg Street. A paved asphalt entry road leads to a large asphalt parking area that connects with the swimming and diving complex, a playground and the Boys and Girls Club facility. An entry sign along this entrance identifies the park site as O. T. Sloan Park and Boys and Girls Club of Sanford of Lee County. The second entry drive,

unpaved, leads to the gravel parking area adjacent to the six (6) tennis courts and associated restroom and concession building. This entry drive also provides access to the two (2) dog park areas.

Stormwater from Bragg Street is daylighted into a swale along one edge of the entry drive that eventually drains into a stormwater pipe running underneath the parking area median. The parking area has uneven

Existing Playground



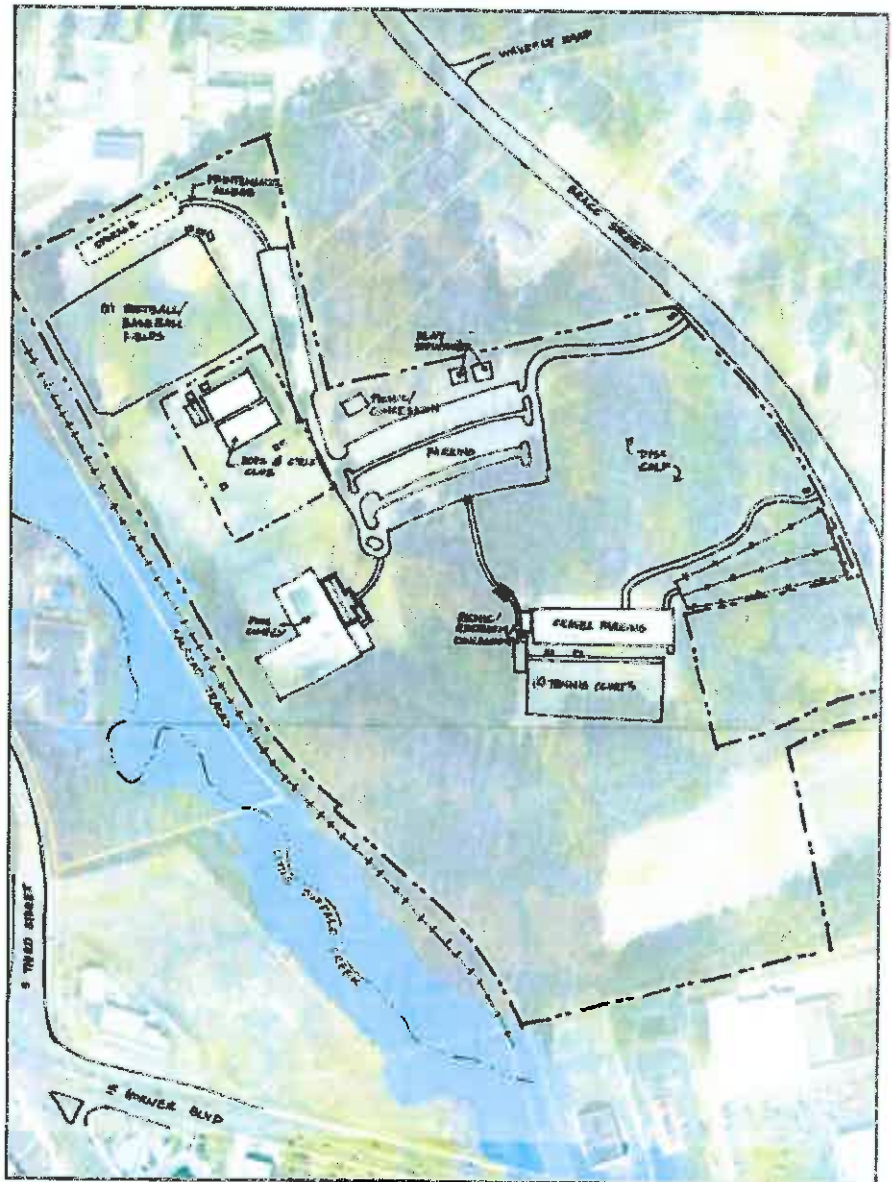
Disc Golf Tee



Dog Park Entrance



Existing Site Elements



RESEARCH AND SITE ANALYSIS

distribution of parking isles separated by the two landscape medians. The larger median has a stormwater pipe daylighted and the sheet flow from the parking lot goes into the median eventually draining to a large stormwater inlet at one end of the median.

The swimming and diving complex includes an eight (8) lane, 50-meter competition pool, a diving well with two (2) springboards (1- and 3-meter), a children's pool, and a pool house that includes restrooms, lockers, showers and office space. The complex is located centrally along the western edge of the site. The pool is open during the summer months only.

The playground is located on northern edge of the asphalt parking lot. The playground structure label shows that it was built in 1987. It is a typical post and deck wooden structure with a new metal slide. The wooden posts are deteriorating and rotting in some places. The swings are in fair condition but the posts are showing the signs of aging. The safety surface is triple shredded wood mulch that is in good condition. The playground does not have an accessible path connection. A small picnic shelter and restroom building is located close to the playground. There are

two picnic tables under the shelter and about ten picnic tables placed in the open space between the playground and the shelter. There are numerous trash cans located along the edge of the parking lot and within the picnic area. Mature trees create a dense buffer from the adjoining property along the northern property line close to the playground.

A large metal building, approximately 15,800 sq ft, is leased to Boys and Girls Club of Lee County and is located over 300 feet north of the pool complex the picnic shelter. The facility has concrete parking lot for large activity buses. The Club has a small fenced area adjacent to the building that encloses a small playground and swings.

On the northern side of the building, there are two lighted softball fields. Due to major drainage issues in this area, one of the field is not usable. The Town is planning to remove this field along with the scorer box and dug outs. The concrete parking lot at the Boys and Girls Club drains into a swale and sheet flows towards the western end of the property. It is collected and is piped to get across the train tracks. Saturation in this

Tennis Building



Large Picnic Shelter



Entry Sign



Main Parking Area



Informal Soccer Field



Open Space



RESEARCH AND SITE ANALYSIS

area has caused erosion and sink holes along the swale route. The chain link fence along the perimeter of the fields is failing in some places. The northernmost area of the fields is used for material storage for the park.

The large open space along the southern edge of the Boys and Girls Club building is used as a soccer field. There is a 10'x10' concrete pad and two horse shoe pits located close to the building. Few wooden benches are located along the back edge close to the train tracks. There are newly added stormwater inlets to capture water from the open area. Eventually this stormwater drains into a larger swale that runs along the train tracks towards the southern edge of the property.

On the south side of the asphalt parking lot, a wooden staircase leads to a mulch path lined with beautiful azaleas and another wooden staircase leads to the picnic shelter and tennis court complex. The wooden staircase leading up to the picnic shelter. The stairs need to be renovated because of uneven measurements of risers and treads.

Set among the dense woods is an eighteen-hole disc golf course. The course layout spreads through the

southern portion of the property and around the dog park and tennis complex. There is a gravel drive from the Bragg Street that leads to a gravel parking lot close to this portion of the park.

The dog park, close to Bragg Street, is a new addition and accessible by the gravel park entry drive. The dog park is subdivided into two parts by a chain link fence for active dogs and less active dogs. It has ample shade from mature tree canopy, benches for seating, and a water fountain for dogs. The concrete path that leads to the dog park needs a better-defined connection with the parking lot.

There are six (6) tennis courts, in fair condition with a few cracks and "bird baths" that can be easily corrected. Along the northern edge, is a brick path and bleachers lined with shrubs. There is a small picnic shelter, a concession stand, and restrooms at the west end of the courts. There is a sign for Rotary Club donor information for the concession stand. On the opposite end of the tennis court, a path leads to the disc gold course. This area has saturated soils and has topographic challenges for access. There is a wooden bridge to cross over to go

Tennis Parking



Tennis Court



Picnic Shelter and Restrooms



Pool Area



Baseball / Softball Field



Disc Golf Area



RESEARCH AND SITE ANALYSIS

the next disc. The path through the woods leads to a large, open mowed area. This is a relatively flat land for a potential location for a new community center or sport fields. The southern edge of the park property has a 20' easement for utilities and access. There is evidence of vandalism and a large amount of trash collecting in the peripheral wooded area.

The 18-hole disc golf course is one of the popular activities in O.T. Sloan Park. Set within the mature stands of pines, and oaks, the course meanders through the southern portion of the park. Some of the tees have

concrete pads and benches but some are natural and don't have any nearby seating. The mulch paths enhance the user experience of the course by showcasing the native woodland vegetation along the way. There is a local Lee County Disc Golf Course Association that conducts tournaments on this course. Because of the current construction of a new bank next to the park, one of the tees has been moved from its location. After bank construction and improvements to the Park, the course will need to be modified for better flow.

Additional site photos can be found below:

Dog Park Fence



Main Entry Drive



Secondary Entry Drive



Parking Lot Looking East



Secondary Entrance



Existing Sidewalk



Tennis Court Walkway



Boys & Girls Club Building



Existing Swings



O.T. Sloan Entry Drive and Multipurpose Field



PARK PROGRAMMING AND CONCEPT DEVELOPMENT

OPPORTUNITIES & CONSTRAINTS

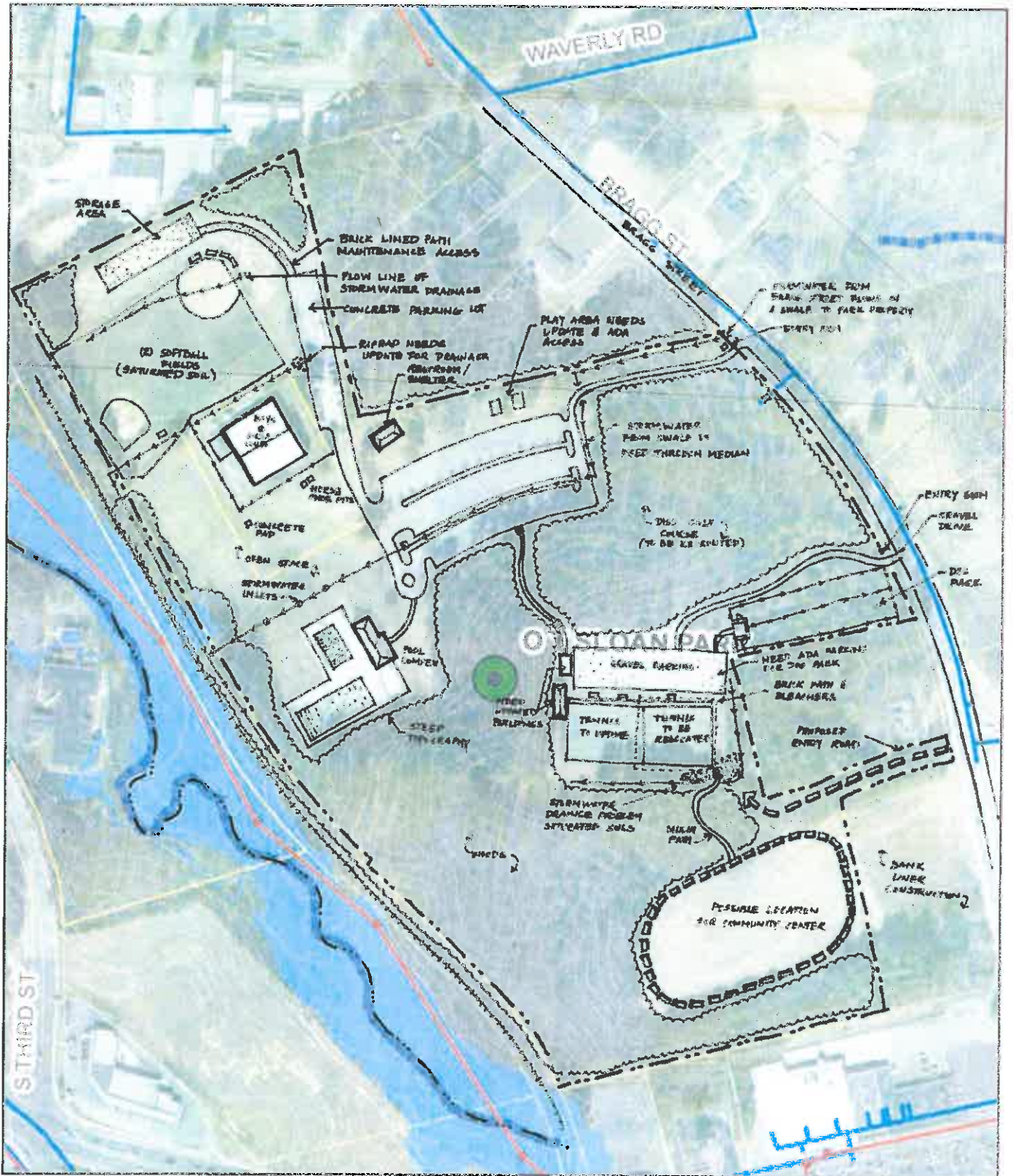
The information obtained inventory and site analysis during the Inventory and Site Analysis phase provided the project team with a comprehensive understanding of the existing conditions in O.T. Sloan Park, and established a basis for identifying opportunities and constraints, as well as programming and initial concept development. Found on the following page, the Opportunities and Constraints map serves as the foundation for the development of concept alternatives and program elements.

Based on the findings from the opportunities and constraints analysis, as well as conversations with County staff, the following design program elements were identified for O.T. Sloan Park.:

- Upgrade and renovate pool and pool house
 - Provide shade structures for pool area
- New community center to include:
 - Basketball courts
 - Gymnastics facility
 - Office space
- Artificial turf soccer field
 - Include bleachers and restroom
- Renovate larger softball field, convert smaller field to multipurpose field or open space
- Upgrade or relocate existing playground
- Inclusive playground
- Fitness area/fitness course
- Renovate existing tennis courts and stripe for pickleball
- Renovate tennis facility
- Renovate/replace picnic shelters
- Additional large and small picnic shelters throughout park
- Walking trail throughout park, connected to amenities
- Special use areas
 - Pump track / dirt course
 - Adventure play area
- Reroute disc golf holes to accommodate additional amenities
- Additional parking for field and community center
- Improve internal vehicular circulation
- Additional park signage and wayfinding
- Update and provide additional site furnishings
- Stormwater improvements
- ADA accessibility
- Enhance landscape features and plantings to accentuate existing natural features and viewsheds

PARK PROGRAMMING AND CONCEPT DEVELOPMENT

Opportunities and Constraints Map



PUBLIC INVOLVEMENT

PUBLIC OPEN HOUSE

On May 29th, 2018, a public meeting was held to gather public input as part of the Parks Master Plan Process for all four parks that were included in the Master Plan effort. The Lee County Parks and Recreation Advisory Board met at 5:30 p.m. in the Gordon Wicker Conference Room in the Lee County Government Center. Following the Board Meeting, The project team gave a 15-minute presentation on the overall Master Plan process and the progress to date. The presentation also included an overview of the existing conditions and concepts for each park. When the presentation concluded, public in attendance were asked to visit stations set up around the room, where full scale concepts of each park were set up. Existing conditions photos and a green dot preference exercise with precedent images were also accompanied each park concept. WithersRavenel staff were available at each station to answer questions and encourage participants to provide comments. The following comments were recorded for O.T. Sloan Park:

- Will there be a field for an AAU football program and rec football programs to have football games? (Lamont Piggie)
- Courts designated for pickleball would be great for tournaments
- We are desperately in need of more walking/running paths – especially ones that are longer than 1 mile. This would be my top priority at all of the parks
- We would love to have access to pickleball at O.T. Sloan Park
- There are several ways to reconfigure pickleball courts, the main consideration would be for tournament play
- Tai Chi at fitness course, include a nature area
- Restrooms are important in all parks

In addition to written comments, participants were also presented with precedent image boards, and asked to place three green dots on the program element images that they felt should be a priority. The following tables shows the results of the green dot exercise for O.T. Sloan, with the top six program elements highlighted.



PUBLIC INVOLVEMENT

Green Dot Exercise Results

O.T. Sloan Park		
Program Element	# of Dots	% of Responses
Soccer Field	9	10.5%
Community Center	9	10.5%
Pickleball (Write-in)	8	9.3%
Swimming Pool	8	9.3%
Tennis	7	8.1%
Nature Play	7	8.1%
Dog Park	6	7.0%
Multipurpose Fields	5	5.8%
Splash Pad/Water Play	5	5.8%
Playground	4	4.7%
Baseball/Softball	4	4.7%
Access to Natural Areas	4	4.7%
Pump Track	4	4.7%
Walking Trails	3	3.5%
Fitness Course	2	2.3%
Stormwater	1	1.2%
Parking Improvements	0	0.0%
Picnic Shelters	0	0.0%
Disc Golf	0	0.0%
Total # of Dots Placed	86	100.0%

Precedent Image Board



FINAL CONCEPT

FINAL CONCEPT ELEMENTS

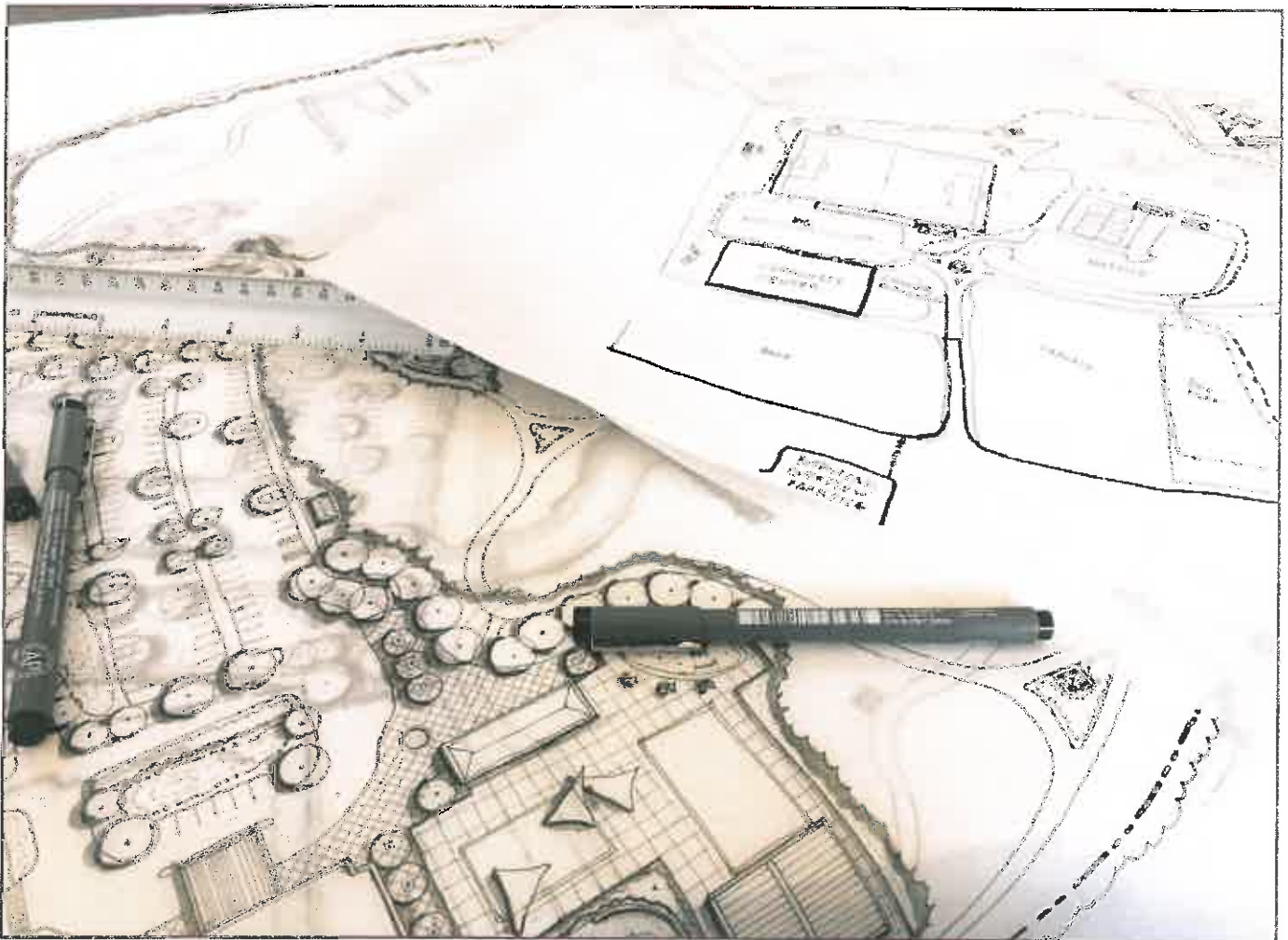
Once the Public Involvement Phase was completed, the project team summarized all written comments, the results from the green dot exercise, and any notes taken during conversations with stakeholders and public participants. The project team then developed a list of action items for revisions to the O.T. Sloan Park Concept, and presented these to County staff. Once the staff reviewed these action items and gave their recommendations, the project team proceeded with the final park concept for O.T. Sloan Park.

The final concept includes the following programmatic and design elements for O.T. Sloan Park:

- 1.5 miles of asphalt walking trail throughout the park connecting amenities.
- ADA accessible walkways to amenities throughout the site.
- Stormwater management areas adjacent to parking areas.
- Renovated softball field.
- Plaza behind softball field with upgraded backstop, dugouts and bleachers.
- Enhanced pedestrian connections to the existing Boys and Girls Club building.
- Enhanced multipurpose field area behind Boys and Girls Club.
- Renovated shelter near existing playground area.
- Small picnic shelters placed intermittently along perimeter trail and near park amenities.
- Large picnic shelters located near major amenities and trailheads.
- Large inclusive playground south of Boys & Girls club with shade structures.
- Outdoor fitness course at the location of the existing playground equipment.
- Renovated north parking lot with main drive isle, approximately 110 spaces including accessible parking, and stormwater BMP improvements.
- Enhanced pool drop off area.
- Enhanced entry drive at existing park entrance.
- Pump track area.
- Renovated pool deck, additional pool seating areas, removal of diving boards, and shade structures.
- Renovated pool house and entrance plaza.
- Retractable pool cover on lap pool.
- Removal of kiddie pool and replacement with small splash pad.
- Relocated and upgraded disc golf course to accommodate park changes
- New entry drive adjacent to State Employees Credit Union, with pedestrian connections to Lee County High School.
- New roadway through park connecting new entry drive to existing entry drive, including traffic circle for improved circulation to major park areas.
- Relocated tennis court to accommodate new entry drive and additional parking.
- Resurfaced existing tennis courts with striping for pickleball.
- Renovated tennis building and shelter.
- Reconfigured tennis and dog park parking with approximately 72 spaces including accessible parking.
- Upgrades to existing dogpark.
- 37,000 SF Community Center with two basketball courts, gymnastics area, and administration and office space.

FINAL CONCEPT

- Inclusive, nature play are adjacent to community center that incorporates existing topography into play features.
- New tiered parking lot serving community center and soccer field with approximately 165 spaces, including accessible spaces.
- Full-size, artificial turf soccer field in the southeast corner of the site.
- Concession / restroom / maintenance building adjacent to soccer field.
- Bleacher seating at soccer field for approximately 1,000 people.
- Landscape improvements and enhancements throughout the park.



DRAFT

ILLUSTRATIVE CONCEPT & PRECEDENT IMAGES

The final concept for O.T. Sloan Park can be found on the following spread, along with the top ten precedent images selected during the green dot exercise.

SOCCER FIELD



COMMUNITY CENTER



PICKLEBALL



SWIMMING POOL



TENNIS



NATURE PLAY



DOG PARK



MULTIPURPOSE FIELDS

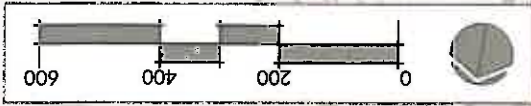


SPLASH PAD / WATER PLAY



PLAYGROUND





FINAL CONCEPT

- KEY**
- 1 DUGOUTS AND PLAZA AREA
 - 2 RENOVATED BASEBALL FIELD
 - 3 BOYS AND GIRLS CLUB
 - 4 MULTIPURPOSE FIELD
 - 5 SMALL SHELTER (TYP)
 - 6 PLAYGROUND
 - 7 STORMWATER MANAGEMENT AREA
 - 8 RENOVATED SHELTERED
 - 9 FITNESS COURSE
 - 10 PARKING
 - 11 EXISTING ENTRY DRIVE
 - 12 PUMP TRACK
 - 13 ENHANCED POOL DROP-OFF
 - 14 RENOVATED POOL AREA
 - 15 RENOVATED POOL HOUSE
 - 16 POOL WITH RETRACTABLE COVER
 - 17 WATER PLAY / SPLASH PAD
 - 18 DISC GOLF COURSE
 - 19 WALKING TRAIL (1.5 MILES)
 - 20 NATURE PLAY AREA
 - 21 INCLUSIVE PLAYGROUND
 - 22 RENOVATED TENNIS BUILDING AND SHELTER
 - 23 RELOCATED TENNIS COURTS
 - 24 RESURFACED TENNIS COURTS
 - 25 CONNECTING PARK DRIVE
 - 26 DOG PARK
 - 27 COMMUNITY CENTER
 - 28 NEW ENTRY DRIVE
 - 29 ARTIFICIAL TURF SOCCER FIELD
 - 30 CONCESSIONS / RESTROOMS / MAINTENANCE BUILDING
 - 31 BLEACHER SEATING
 - 32 SHELTER (TYP)

DRAFT

THIS PAGE INTENTIONALLY LEFT BLANK

ARCHITECTURAL ELEMENTS

TENNIS BUILDING AND SHELTER

Proposed architectural elements that are incorporated into the O.T. Sloan Park Master Plan include a renovation of the existing tennis building and the shelter adjacent to it. Renovations to the existing restrooms, storage room, lobby and multipurpose room include new finishes, lighting as well as the addition of two new ADA rest rooms and a second storage room. The building will also receive a new roof and new windows.

The existing shelter should be updated to include new roofs, and replacement of any support elements that are in poor condition. Bleacher seating for the tennis

Shelter Views from Tennis Building



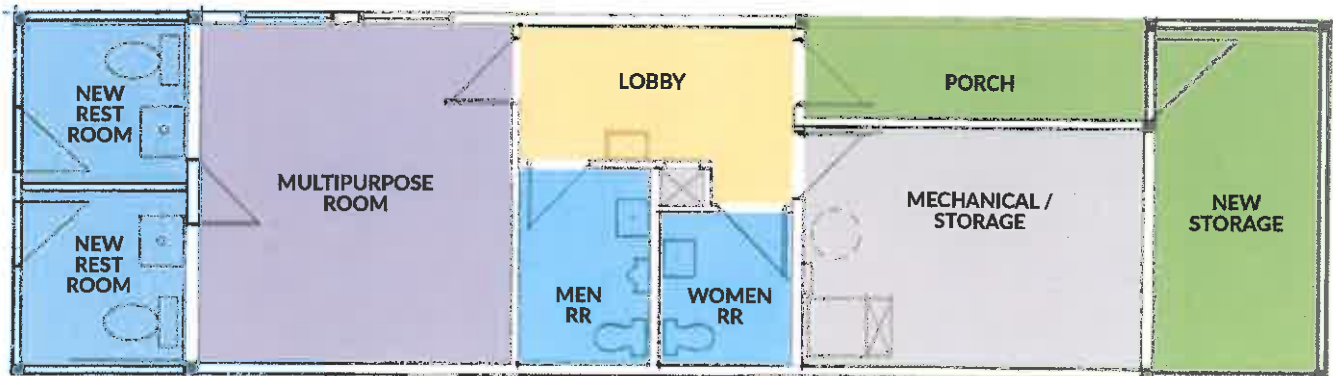
Rear of Tennis Building



Tennis Building Connection to Courts



Proposed Tennis Building Layout



ARCHITECTURAL ELEMENTS

RESTROOM & SHELTER

Also included in the O.T. Sloan Park Master Plan is the replacement of the existing restroom facility with a larger restroom building attached to a large group pavilion. This building should contain two sets of restrooms, enough space for up to four picnic tables, and amenities such as drinking fountains and bike racks. This restroom and pavilion building will serve as a trailhead for the internal walking trail that will run throughout the park, providing amenities in close proximity to parking and other areas of the park.

Example of Restroom / Group Pavilion



POOL RENOVATIONS

A major component of the proposed architectural improvements to O.T. Sloan is the renovation of the existing pool and pool house. The pool house renovations include comprehensive upgrades to both the interior and exterior of the building, including ADA accessible restrooms and changing areas, lighting, storage, and a check-in area.

Example of an Upgraded Pool House



In addition to renovations to the pool building, the County also wishes to cover the existing lap pool with a retractable roof for year-round use. This includes the retractable structure, HVAC, electrical, and concrete footings and paving for the pool deck. Additional renovations to the pool area include the removal of the diving boards from the diving well, repaving of the pool deck, replacing the kiddie pool with a small splash pad, and adding shade sail structures to the areas outside of the retractable roof.

Example of a Retractable Cover in Highlands, NC - Dyandome Systems



Existing Pool Building



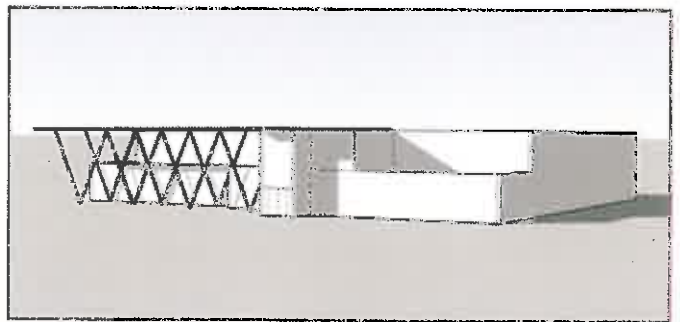
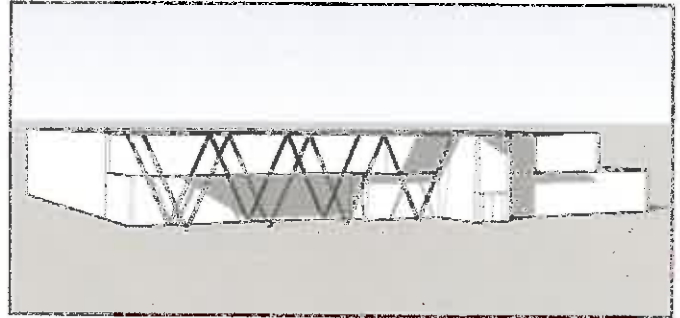
ARCHITECTURAL ELEMENTS

COMMUNITY CENTER

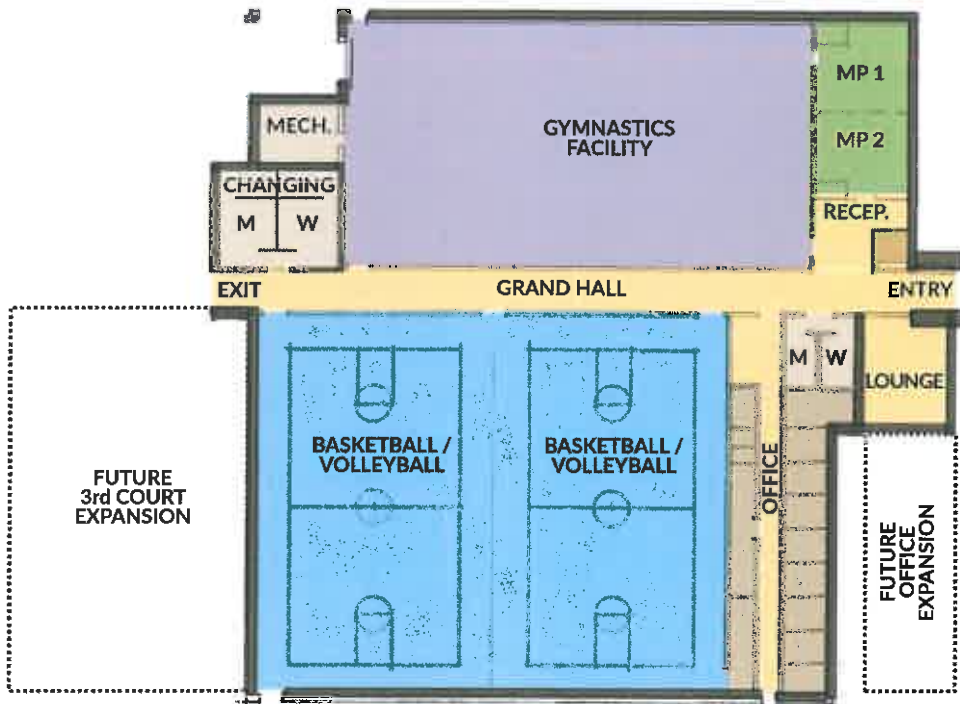
One of the primary focal points of the O.T. Sloan Park Master Plan is the addition of a 37,350 square foot community center to be centrally located in the park. The community center will include two basketball / volleyball courts, a gymnastics facility, administrative offices, storage / mechanical rooms, changing rooms for men and women, restrooms, a reception area, a lounge and the potential expansion for a third basketball court and additional office space. During the public involvement phase, the County was presented with two options for community center layouts and four options for exterior styles. The layout and styles selected are shown on this page, with more detailed renderings on the following spread.

Addition of the community center will also include a new parking lot, entry plaza, a new entry drive with a traffic circle and drop-off area, pedestrian circulation, and a playground.

Preferred Community Center Exterior Style



Preferred Community Center Layout

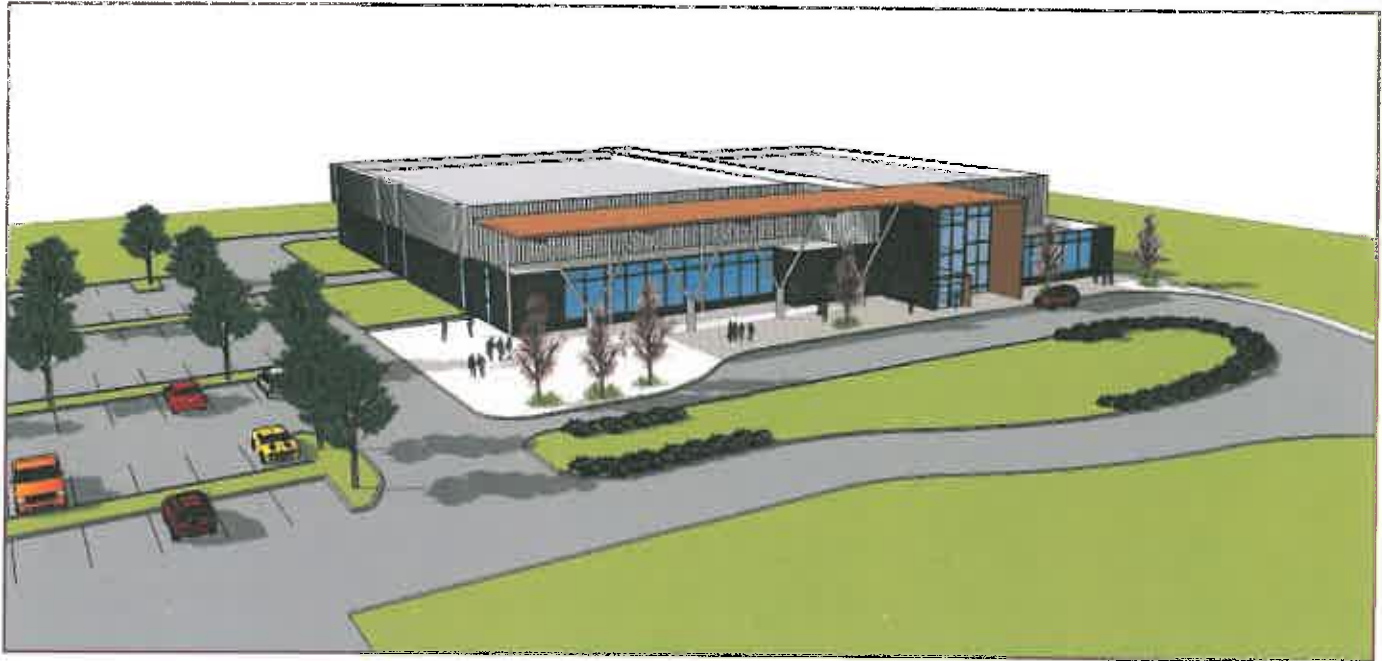


Space Allocation Program	
Program Element	Net Square Footage
Basketball / Volleyball Courts	15,000
Courts	14,700
Storage	300
Restrooms	1,000
Men	500
Women	500
Gymnastics Facility	10,000
Multipurpose	1,620
Multipurpose Room	1,500
Storage	120
Administrative Office Area	1,460
Net/Gross Ratio @ 80%	7,470
Total Gross Square Feet	37,350

ARCHITECTURAL ELEMENTS

COMMUNITY CENTER RENDERINGS

Birds-eye View of Community Center Building



Front View of Community Center



ARCHITECTURAL ELEMENTS

Community Center Entry Drive



Community Center Entry Plaza



ESTIMATE OF PROBABLE COST

COST CONSIDERATIONS

The cost estimates are based on current market trends, similar projects, and project-specific research conducted by the project team. The project team utilized all of its available resources and technical expertise to provide order-of-magnitude cost estimates that are for planning purposes only.

The vision for O.T. Sloan Park may be modified over time in response to actual costs, future department objectives, and available funding sources. Additionally, it is recommended that proposed improvements undergo a detailed feasibility and costs analysis prior to physical implementation.

LEE COUNTY PARKS MASTER PLAN COST ESTIMATES Order of Magnitude Estimate of Probable Capital Improvement Costs (July 2018)					O.T. SLOAN PARK	
	Unit	Quantity	Unit Cost	Subtotal	Description	
O.T. Sloan Park - 40.28 Acres						
A. Site Work						
1	Mobilization and General Conditions	lump sum	1	\$200,000.00	\$200,000	
2	Survey and Layout	lump sum	1	\$140,000.00	\$140,000	
3	Site Clearing	acre	25.0	\$5,000.00	\$125,000	clear and grub - approximately 60% of site
4	Site Grading Including On-Site Balancing	acre	25.0	\$10,000.00	\$250,000	grading, balancing, fine grading
5	Erosion Control / Wattle / Diversions	ln ft	10,000	\$5.00	\$50,000	silt fence, control wattle, diversions
6	Erosion Control / Skimmer Basin	each	5	\$8,000.00	\$40,000	
7	Construction Entrance	each	2	\$3,000.00	\$6,000	
8	Demolition	allowance	1	\$30,000.00	\$30,000	tennis courts and softball field
	Subtotal:				\$841,000	
B. Utilities						
1	Sanitary Service Supply	allowance	1	\$25,000.00	\$25,000	new 6" service, manholes, pipes, testing
2	Water Service Supply - New Main	allowance	1	\$50,000.00	\$50,000	new 8" main, valves, pipes, testing, taps, bore Bragg St
3	Water Service Supply - New Domestic	allowance	1	\$26,000.00	\$26,000	new 2" dom serv, hydrants, rpbp (2), new 8" fire serv
4	Electrical Service Supply	allowance	1	\$100,000.00	\$100,000	transformers, conduits, meters, upgrades & relocations
5	Stormwater System	allowance	1	\$340,000.00	\$340,000	inlets, boxes, piping, outfalls, culverts, misc. rock liners
6	Lighting - Pedestrian	each	20	\$6,500.00	\$130,000	12' lamp height, decorative poles, foundation, conduit
7	Lighting - Parking	each	4	\$12,500.00	\$50,000	14-16' lamp height, decorative poles, foundation, conduit
8	Lighting - Fields & Courts	allowance	1	\$55,000.00	\$55,000	LED system, 50/30 6-poles, 20 fixtures w/controls
	Subtotal:				\$776,000	
C. Buildings and Structures						
1	Existing Shelter Renovation	lump sum	1	\$20,000	\$20,000	1,200 SF, update per structural evaluation
2	Existing Tennis Building Renovations	lump sum	1	\$86,000	\$86,000	700 SF, 2 ADA restrooms, storage room, ext/int renovations
3	Existing Pool Houser Renovations	lump sum	1	\$540,000	\$540,000	3,600 SF, comprehensive renovation
4	Pool Cover - Retractable	allowance	1	\$1,100,000	\$1,100,000	80' x 100' "Dynadome" structure, HVAC, elec
5	Pool Deck Renovations	allowance	1	\$350,000	\$350,000	repair/patch surface
6	Pool Shade Structures	each	3	\$20,000	\$60,000	3-point, embed mount, DSA-approved fabric
7	Dugouts for Baseball/Softball Field	each	2	\$25,000	\$50,000	cinderblock and steel roofs
8	Bleachers	each	6	\$5,500	\$33,000	5-row, 24', baseball, softball, tennis
9	Picnic Shelter - Family	each	14	\$18,000	\$252,000	12' x 12' prefabricated
10	Picnic Shelter - Group	each	2	\$30,000	\$60,000	12' x 24' prefabricated
11	Picnic Shelter w/Restroom	allowance	1	\$180,000	\$180,000	800 SF, restrooms and pavilion
12	Soccer Field Seating	each	2	\$120,000	\$240,000	1,000 seat bleachers
13	Concession / Maintenance Building	allowance	1	\$250,000	\$250,000	2,400 SF, maintenance/storage, concessions, restrooms
	Subtotal:				\$3,221,000	

ESTIMATE OF PROBABLE COST

E. Park Elements						
1	Large playground	allowance	1	\$200,000.00	\$200,000	multilevel, inclusive
2	Resilient Surfacing	sq ft	12,000	\$8.00	\$96,000	engineered wood chips
3	Small playground	allowance	1	\$60,000.00	\$60,000	inclusive
4	Resilient Surfacing	sq ft	3,500	\$14.00	\$49,000	poured in place, rubber, decorative pattern
5	Nature playground	allowance	1	\$80,000.00	\$80,000	built in to existing topography
6	Resilient Surfacing	sq ft	4,000	\$14.00	\$56,000	poured in place, rubber, decorative pattern
7	Tennis Courts -New	allowance	3	\$35,000.00	\$105,000	include striping for pickleball
8	Tennis Courts-Resurface	each	3	\$10,000.00	\$30,000	include striping for pickleball
9	Splash Pad at Pool	allowance	1	\$80,000.00	\$80,000	2,500 sf on existing pool deck, upgrade pump systems
10	BMX Pump Track	allowance	1	\$100,000.00	\$100,000	dirt pump track
11	Soccer Field - Artificial Turf	allowance	1	\$750,000.00	\$750,000	FIFA regulation size field - 360'x240'
12	Disc Golf Relocations	allowance	1	\$20,000.00	\$20,000	relocated holes as necessary for park improvements
13	Softball Field Renovations	allowance	1	\$40,000.00	\$40,000	new backstop, fencing, turf replacements
14	Wayfinding and Signage	allowance	1	\$50,000.00	\$50,000	informational, directional, regulatory, trail
15	Site Furnishings	allowance	1	\$100,000.00	\$100,000	tables, benches, trash receptacles, drinking fountains, etc.
16	Public Art	allowance	1	\$10,000.00	\$10,000	monument for community center
Subtotal:					\$1,826,000	
F. Hardscape						
1	Sidewalks	sq ft	41,000	\$4.50	\$184,500	6' wide concrete
2	Parking / Vehicle Paving	sq yd	21,500	\$25.00	\$537,500	asphalt parking and new roadways
3	Curb & Gutter	ln ft	10,000	\$18.00	\$180,000	6" curb, 18" gutter
4	Concrete Pad	sq ft	26,000	\$8.00	\$208,000	concrete pavers
5	Multi-Use Trail	ln ft	8,200	\$20.00	\$164,000	10' wide asphalt
Subtotal:					\$1,274,000	
F. Landscape						
1	General Landscape Improvements	allowance	1	\$150,000.00	\$150,000	trees, shrubs and ornamental plantings
Subtotal:					\$150,000	
O.T. Sloan Park Total					\$18,538,000	
Construction Fees and Contingency						
	Contingency (20%)				\$3,707,600	
	Design, Permitting & Inspection (18%)				\$4,004,208	
Construction Fees and Contingency Subtotal:					\$7,711,808	
TOTAL:					\$26,249,808	

PHASING & IMPLEMENTATION STRATEGY

IMPLEMENTATION WORKSHOP

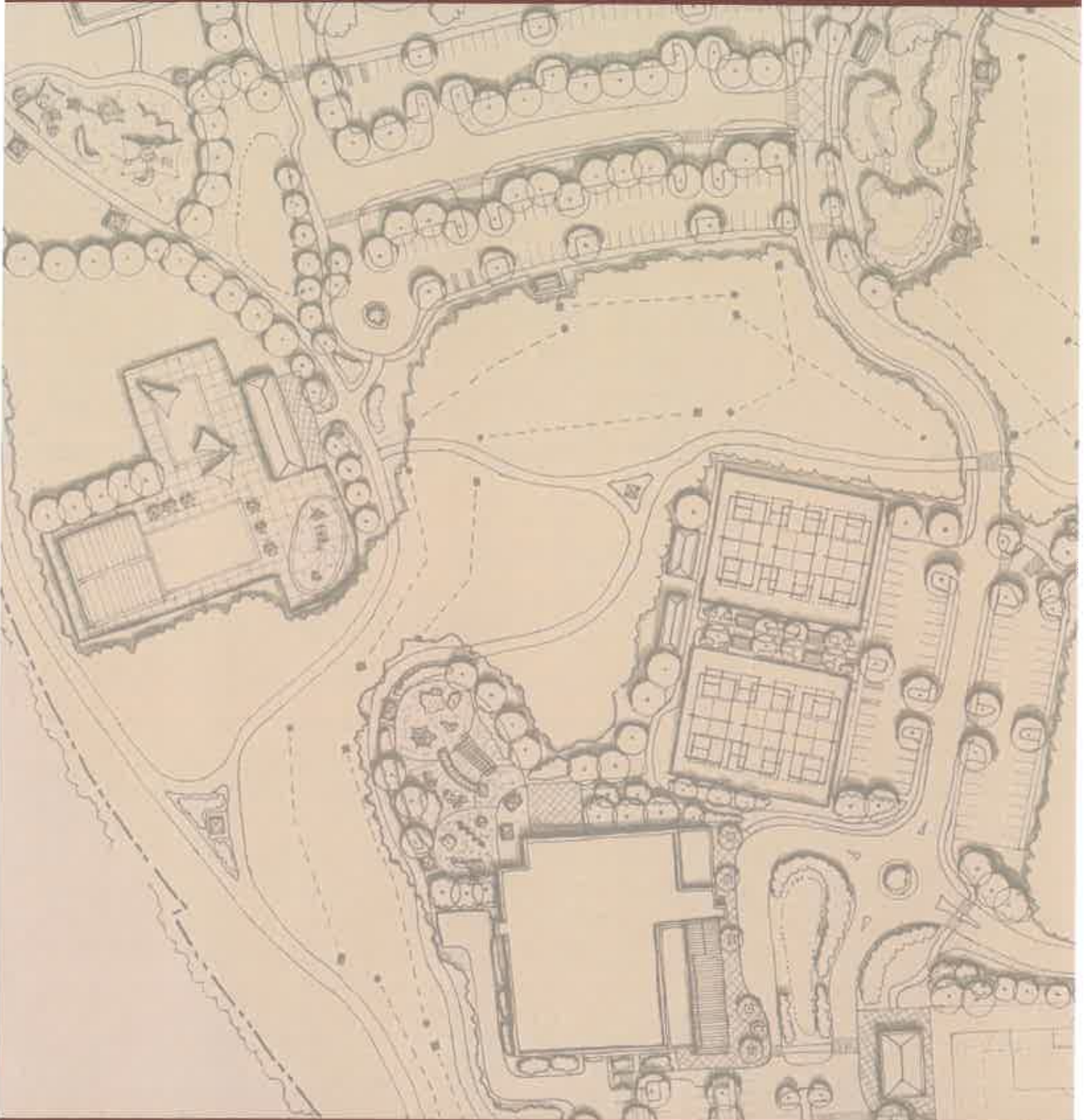
TO BE COMPLETED

DRAFT

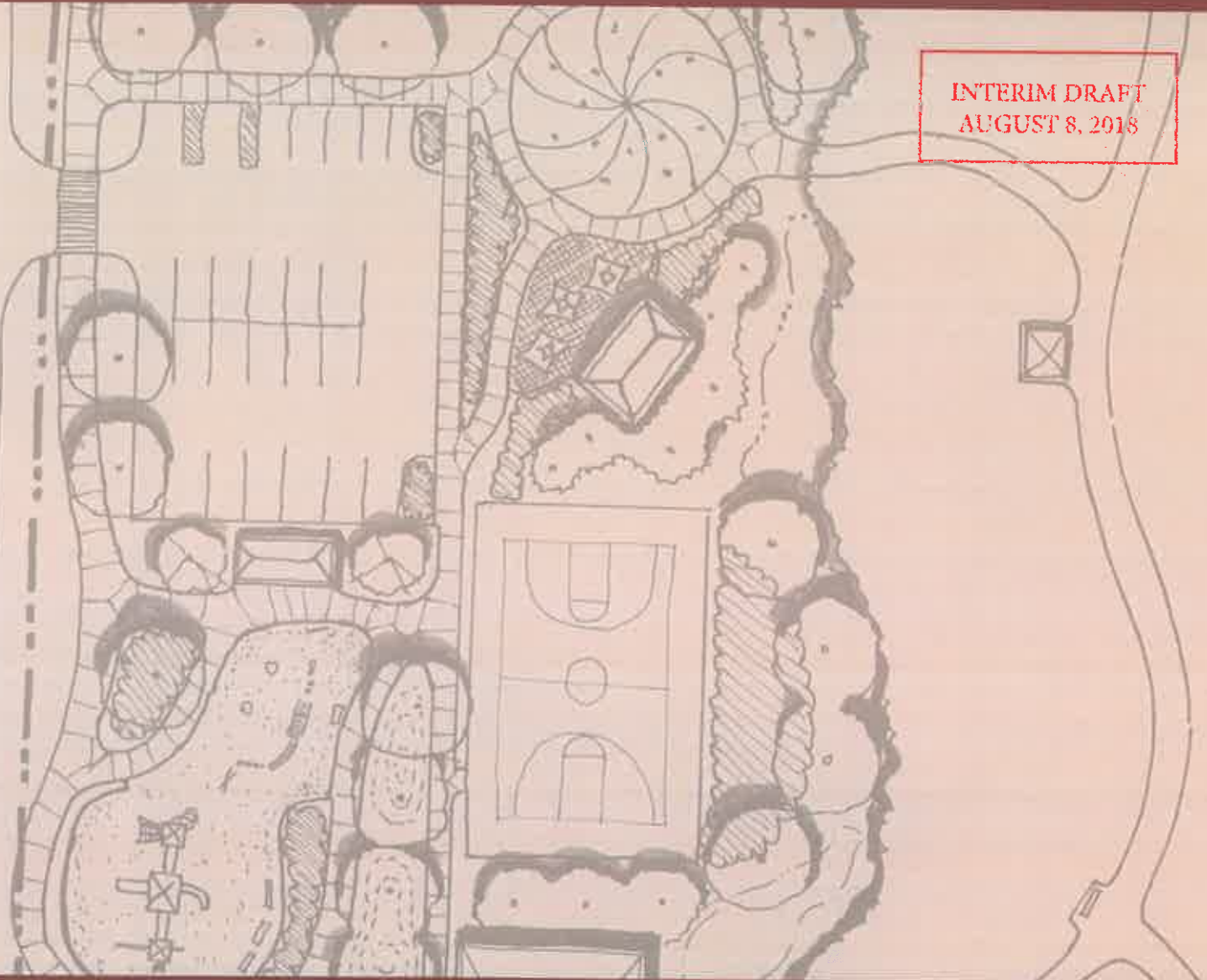
PHASING & IMPLEMENTATION STRATEGY

PHASING RECOMMENDATIONS

TO BE COMPLETED



INTERIM DRAFT
AUGUST 8, 2018



HORTON PARK

MASTER PLAN



Interim Draft Publish Date : July XX, 2018

Lee County
Parks & Recreation Department
2303 Tramway Road
Sanford, NC 27331
[https://leecountync.gov/
Departments/ParksRecreation](https://leecountync.gov/Departments/ParksRecreation)

This document has been prepared by WitherRavenel on behalf of The Lee County Parks and Recreation Department. Reproduction or distribution of this document and its contents are prohibited without approval of the Lee County Parks and Recreation Department. All contents of this document are the property of Lee County.

DRAFT



ACKNOWLEDGMENTS



County Commissioners

Chair

Amy Dalrymple - District At-Large

Vice Chairman

Tim Sloan - District 2

Cameron Sharpe - District At-Large

Kevin Dodson - District At-Large

Robert T. Reives - District 1

Dr. Andrew Knecht - District 3

Larry "Doc" Oldham - District 4

County Manager

John Crumpton

Clerk to the Board of County Commissioners

Jennifer Gamble

County Attorney

Whitney Parrish

Parks and Recreation Director

John Payne

General Services Director

Russel Spivey

Consultants

WithersRavenel

J. Thomas Engineering

RMC Architectures

DRAFT

TABLE OF CONTENTS

■	Project Process and Purpose	6
■	Inventory and Analysis	8
■	Park Programming & Concept Development	12
■	Public Involvement	14
■	Final Park Concept and Precedent Images	16
■	Architectural Elements	21
■	Estimate of Probable Cost	22
■	Implementation Strategy & Phasing Recommendations	24

PROJECT PURPOSE AND PROCESS

PROJECT PURPOSE

The purpose of The Lee County Parks Master Plans is to establish a master plan vision for Lee County's parks with the objective of providing the Citizens of Lee County and the City of Sanford with quality parks and recreation facilities that support a healthy and vibrant quality of life for the area.

MASTER PLAN PROCESS

This master plan process is intended to better identify the needs of the community through a systematic method of research and community involvement. This approach extends beyond the specific property lines of the park in order to develop a cohesive plan that connects the park to the surrounding neighborhoods and provide an improved park experience for the residents that use them. Horton Park serves as an important asset to the community, and this process is intended to insure that it continues to provide quality recreation experiences for future generations to come.

Research is the first step in the park planning process. Considering the unique aspects of Horton Park, this step relied on research and inventory of existing conditions of the park and surrounding area, as well as an analysis of previous planning documents like the Lee County Parks and Recreation Master Plan Update. Programming research also included the analysis of both park and program precedents that were consistent with stakeholder input.

The next step used a synthesis of information to develop a list of opportunities and challenges for the park and surrounding area. These include considerations

Public Open House Meeting



PROJECT PURPOSE AND PROCESS

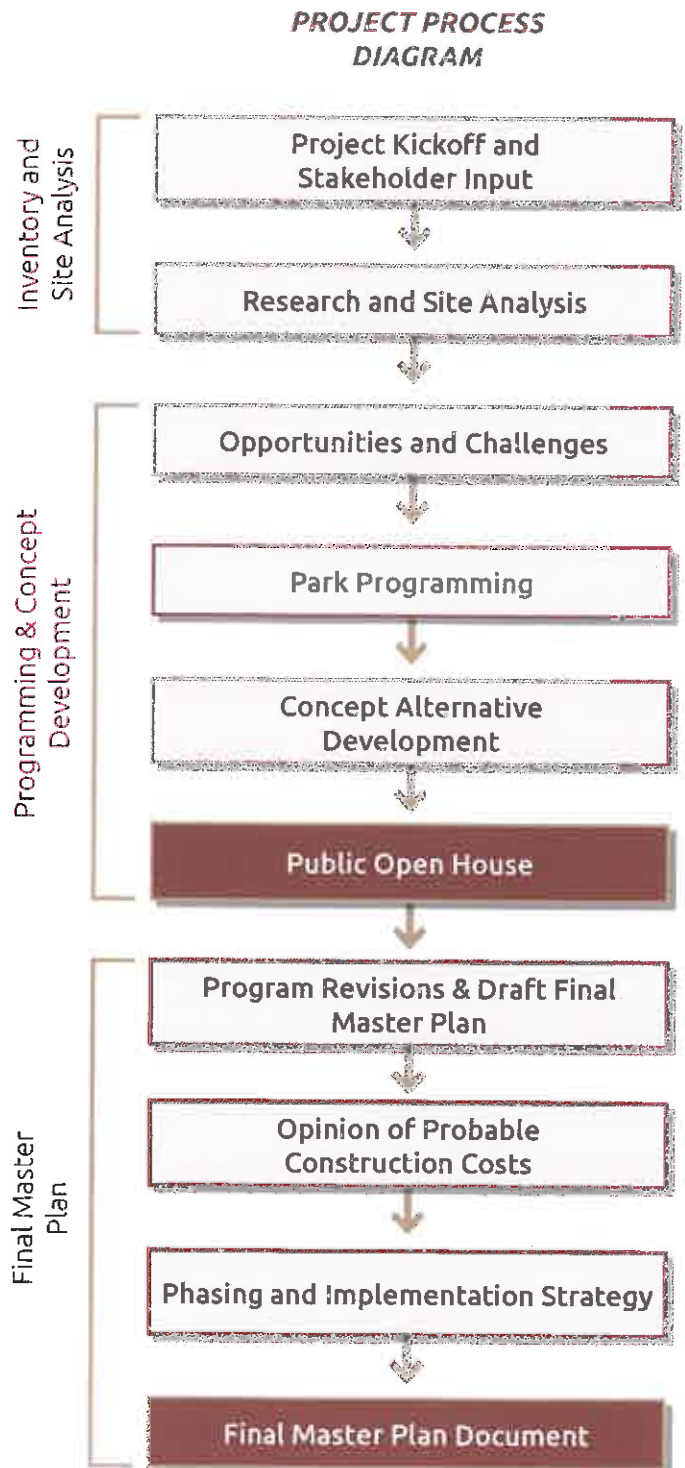
such as better pedestrian connections, improved parking and vehicular circulation, programming needs and sustainable practices. This led to defining form, function and programming for the park through a concept development process that considered multiple alternatives

Refined Alternative Development was the next phase of the process and began after initial form and function concepts were completed. Refinement of the concept alternatives focused on more detailed components such as sidewalk placement parking layouts, and amenity locations and size.

After the development of a concept alternatives for each park, a summary of the process and the alternatives was presented to the public at an open house. Effective public involvement is the key to a successful planning process. The process employed during this project provides transparency of the research and analysis with stakeholders and the general public to insure the needs of the public are met. Community input is integrated throughout the process and helped in the development of a cohesive park plan.

The public open house included a presentation of all site analysis findings, park programming precedent images, and concept alternatives for all four park locations. Consensus on programming and park development is the most important outcome of public involvement, ideally resulting in a preferred alternative for each park.

After receiving public input, the final step is the preparation of a Final Park Master Plan. This began with further development of the preferred alternative, including construction cost estimates. The finalized preferred alternative was then presented to the public through a second public meeting. After public input is gathered, an implementation meeting was held with county representatives to discuss funding priorities, strategies, and proposed phasing. After this was completed, the project team provided this Final Master Plan Document that will be a narrative and graphic compilation of the entire process. This document will then be presented to the Board of Commissioners for final adoption.



RESEARCH AND SITE ANALYSIS

SITE CONTEXT

Address: 0 Washington Ave, Sanford NC
Area: 9.60 acres

Horton Park is located at the intersection of Washington Avenue and Garden Street in the City of Sanford. The property is bound by CSX railroad on the eastern edge, Garden Street to the south, Washington Avenue to the west, and low density residential area on the north. There is a community garden just north of the site at the residential property. A Skunk Creek tributary flows at the bottom of the hill along the northern edge. Washington Avenue connects with South Horner Boulevard and Downtown Sanford about a half mile north of the site. The park appears to be at an isolated location because of the limited residential neighborhoods nearby and large solar farms across Washington Avenue and Garden Street from the park.

Vicinity Aerial



EXISTING PARK AMENITIES

Existing park amenities at Horton Park include:

- Gravel parking lot (approx. 20 vehicles)
- Softball field
- Group Picnic shelters (2)
- Concession Stand/ Restroom building
- Basketball court
- Playground
- Pool house
- Swimming pool
- Pump house

Group Picnic Shelter and Grills



DRAFT

RESEARCH AND SITE ANALYSIS

SITE OBSERVATIONS

Located in the quiet area of the town, Horton Park is set within the mature tree canopy on the northern and eastern edge along the CSX railroad corridor. The western and southern edges are lined with mature pine trees and some hardwoods. The site generally slopes down from the south to the north. The property edge along Washington Street is lined with wooden fence. There is a gravel parking area at the entrance and gravel head-in parking along Washington Avenue.

A softball field is at the southern end of the park with a wooden scorers' box and two dug outs built with concrete blocks (CMU). Two (2) metal bleachers are located adjacent to the field. The electrical service panels are located in an open area between the field and park driveway and, although it is fenced off with a chain-link fence, it may pose a safety risk to park users.

Softball Field



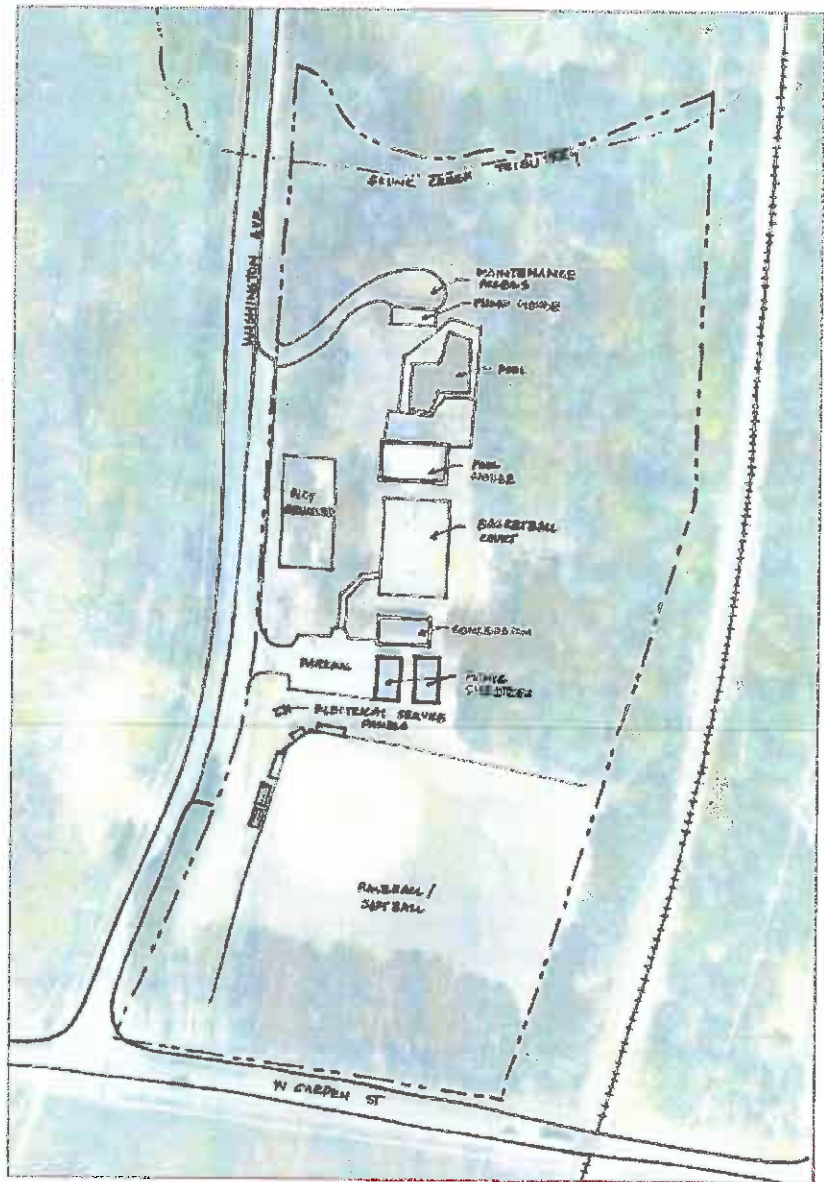
Pump House



Handicap Parking and Accessible Walk



Existing Site Elements



RESEARCH AND SITE ANALYSIS

There are two (2) large, group picnic shelters (20'x40') located immediately east of the parking area. These are located on raised concrete pads and there is no American with Disabilities Act (ADA) compliant access to either of the shelters. The roofs are in good condition but the structures could use cleaning and fresh coat of paint. A building located north of the shelters (25'x55') has restrooms and a concession area.

A concrete sidewalk from the parking area leads to the basketball court (high school size, 50'x84'). The court surfacing and the surrounding 10 feet tall chain link fence is in good condition.

An existing playground is located under the shade of mature trees however, there is no ADA accessible path to the playground. Some of the play structures are aging and not in compliance with current Consumer Product Safety Commission (CPSC) standards. The surfacing under the playground equipment does not meet current CPSC standards due to insufficient depth for specific fall heights.

The northern end of the park accommodates a pool and associated pool house building built in 1950. The building and the pool are currently closed to the public. A maintenance access driveway to the grade separated pool pump house is from Washington Avenue. Access is controlled by a removable chain. An above-ground propane tank cylinder is located near the pool house and is in close vicinity of the playground. East of the pool area and basketball court, is a concrete pad remnant from an unknown structure. There is an opportunity to create a walking trail through the wooded area east and north of the pool and basketball court.

The limited site furnishings include benches, trash cans and grills at the shelters. The softball field and basketball court are lit with older sports light fixtures. There are two (2) pole-mounted area lights along Washington Avenue and one (1) near the pool area. Overhead electrical service lines run along Washington Avenue. Although the overall tree canopy is in good condition, the exposed tree roots show the evidence of erosion in many parts of the site.

Playground with Mulch Surfacing



Existing Furnishings



Existing Playground



Pool Area and Pool House



Park Entrance Sign



Electric Service Panels



DRAFT

RESEARCH AND SITE ANALYSIS

Additional site photos can be found below

View Towards Railroad Tracks



Existing Concrete Pad



Existing Concession Building



Swimming Pool Sign



Path to Basketball Court



Baseball / Softball Field Infield



Baseball / Softball Field Access Gate



Area Behind Pump House



View Towards Washington Avenue



PARK PROGRAMMING AND CONCEPT DEVELOPMENT

OPPORTUNITIES & CONSTRAINTS

The information obtained inventory and site analysis during the Inventory and Site Analysis phase provided the project team with a comprehensive understanding of the existing conditions in Horton Park, and established a basis for identifying opportunities and constraints, as well as programming and initial concept development. Found on the following page, the Opportunities and Constraints map serves as the foundation for the development of concept alternatives and program elements.

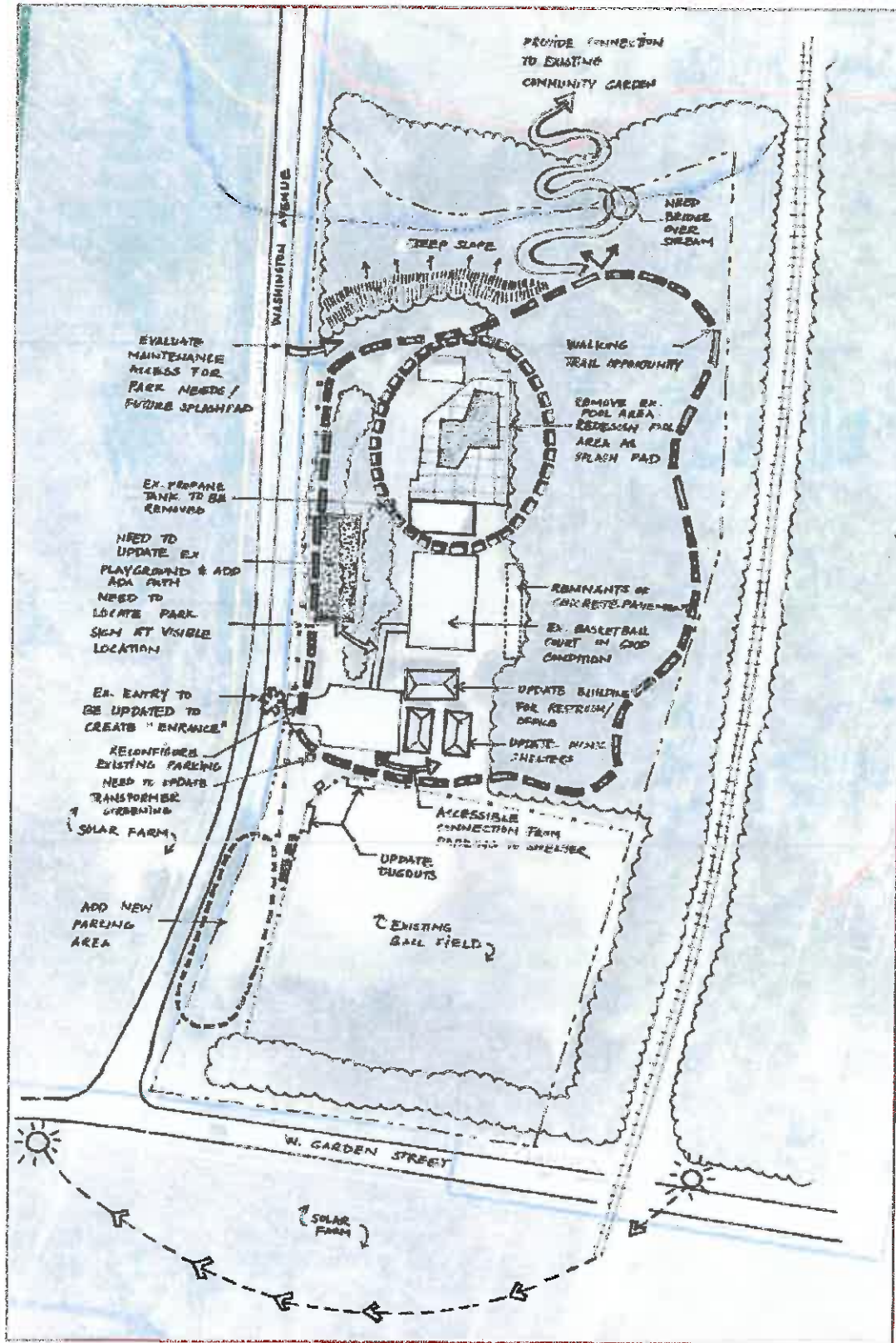
Based on the findings from the opportunities and constraints analysis, as well as conversations with County staff, the following design program elements were identified for Horton Park.:

- Splash Pad located in demolished pool area
 - Between 4,500 and 5,500 square feet in area
- Splashpad restroom and changing area
- Renovate or replace existing pool house
- Retain existing picnic shelters
- Additional large (20' x 40') picnic shelter
- Small (12' x12') picnic shelters
- Improve existing parking and add additional spaces
 - Potential for LID to mitigate runoff
- Renovate existing restroom/concession building to include restroom and office space
- Update pedestrian circulation
 - Accessible connections to park amenities
 - Perimeter walking trail with connection to adjacent community garden
- Resize baseball/softball field
- Update playground equipment
- Add batting cage adjacent to baseball/softball field
- Move entry sign and improve entrance to enhance appearance and visibility
- Provide informational signage about solar farm near picnic shelters
- Improve screening around transformer
- Update and provide additional site furnishings
- Improve ADA accessibility
- Enhance landscape features and plantings to accentuate existing topography and viewsheds

DRAFT

PARK PROGRAMMING AND CONCEPT DEVELOPMENT

Opportunities and Constraints Map



DRAFT

PUBLIC INVOLVEMENT

PUBLIC OPEN HOUSE

On May 29th, 2018, a public meeting was held to gather public input as part of the Parks Master Plan Process for all four parks that were included in the Master Plan effort. The Lee County Parks and Recreation Advisory Board met at 5:30 p.m. in the Gordon Wicker Conference Room in the Lee County Government Center. Following the Board Meeting, The project team gave a 15-minute presentation on the overall Master Plan process and the progress to date. The presentation also included an overview of the existing conditions and concepts for each park. When the presentation concluded, public in attendance were asked to visit stations set up around the room, where full scale concepts of each park were set up. Existing conditions photos and a green dot preference exercise with precedent images were also accompanied each park concept. WithersRavenel staff were available at each station to answer questions and encourage participants to provide comments.

During the public meeting, no written comments were recorded for Horton Park. Participants were also presented with precedent image boards, and asked to place three green dots on the program element images that they felt should be a priority. The following tables shows the results of the green dot exercise for Horton Park, with the top six program elements highlighted.



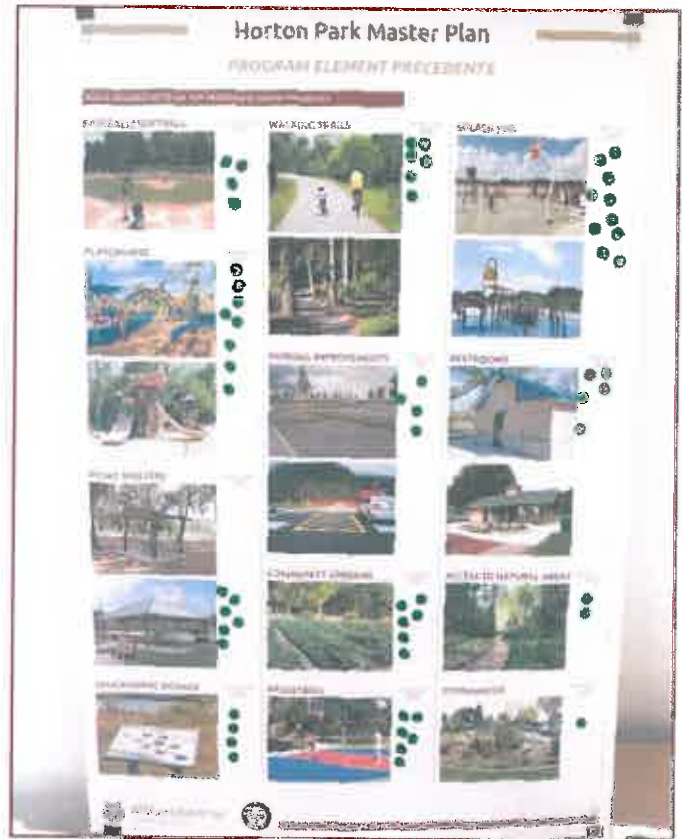
DRAFT

PUBLIC INVOLVEMENT

Green Dot Exercise Results

Horton Park		
Program Element	# of Dots	% of Responses
Splash Pad	10	16.1%
Playground	8	12.9%
Picnic Shelters	6	9.7%
Walking Trails	6	9.7%
Basketball	6	9.7%
Community Gardens	6	9.7%
Restrooms	5	8.1%
Baseball/Softball	4	6.5%
Educational Signage	4	6.5%
Parking Improvements	4	6.5%
Access to Natural Areas	2	3.2%
Stormwater	1	1.6%
Total # of Dots Placed	62	100.0%

Precedent Image Board



FINAL CONCEPT

FINAL CONCEPT ELEMENTS

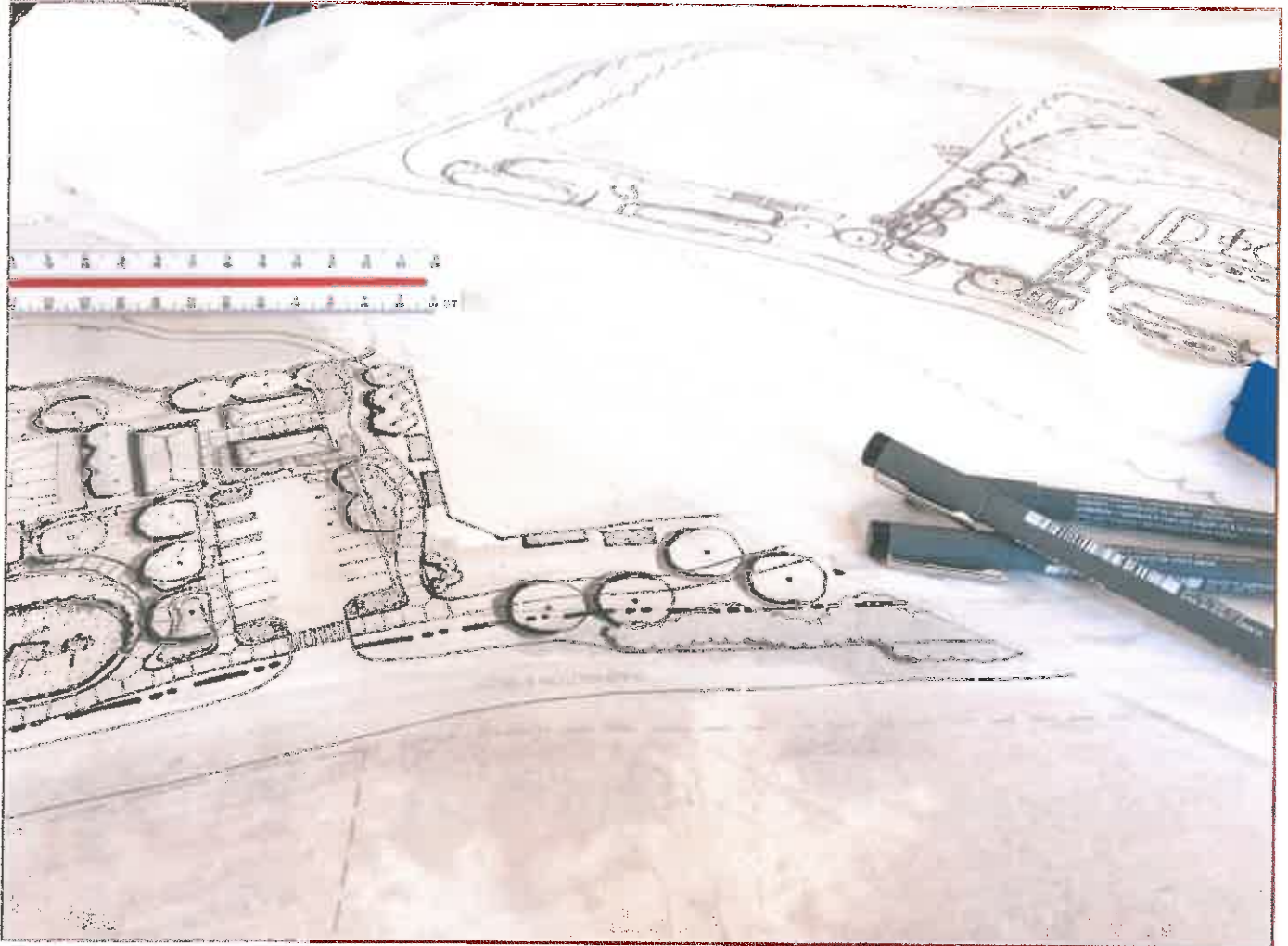
Once the Public Involvement Phase was completed, the project team summarized all written comments, the results from the green dot exercise, and any notes taken during conversations with stakeholders and public participants. The project team then developed a list of action items for revisions to the Horton Park Concept, and presented these to County staff. Once the staff reviewed these action items and gave their recommendations, the project team proceeded with the final park concept for Horton Park.

The final concept includes the following programmatic and design elements for Horton Park:

- More than half of a mile of asphalt walking trail throughout the park connecting amenities, including a bridge across the stream on the north edge of the park and a connection to the community garden on the adjacent parcel.
- Stormwater management areas adjacent to basketball court and splash pad surface.
- 5,000 SF splash pad in the locating of the existing pool deck.
- Paved parking lot with approximately 24 spaces adjacent to splash pad area, including accessible parking.
- Paved parking lot with approximately 7 spaces adjacent to shelter plaza area, including accessible parking.
- Restroom / changing rooms with plaza and covered seating adjacent to splash pad.
- ADA accessible walkways to amenities throughout the site.
- Large picnic shelter between north parking lot and playground.
- Small picnic shelters placed intermittently along perimeter trail.
- Benches placed intermittently along perimeter trail.
- Upgraded playground equipment with inclusive surfacing and perimeter seat wall.
- Resurface existing basketball court.
- Renovations to existing restroom & concession building to include updated restrooms and office space.
- Renovations to existing shelters.
- Upgraded bleachers and dugouts.
- Renovated and resized baseball field.
- Landscape improvements and enhancements throughout the park.

The final concept for Horton Park is can be found on the following spread, along with the top ten precedent images selected during the green dot exercise.

FINAL CONCEPT



DRAFT

ILLUSTRATIVE CONCEPT & PRECEDENT IMAGES

The fold-out map on the next page shows the illustrative final concept for Horton Park, with the location of the primary features and amenities. Below are the top ten precedent images selected by participants in the green dot exercise.

SPLASH PAD



PLAYGROUND



PICNIC SHELTERS



WALKING TRAILS



BASKETBALL



COMMUNITY GARDENS



RESTROOMS



BASEBALL / SOFTBALL



EDUCATIONAL SIGNAGE



PARKING IMPROVEMENTS



DRAFT



- KEY
- ① TRAIL TO COMMUNITY
 - ② WALKING TRAIL (0.5 MILES)
 - ③ STORMWATER MANAGEMENT AREA
 - ④ SPLASH PAD
 - ⑤ PARKING
 - ⑥ RESTROOM & PLAZA
 - ⑦ LARGE SHELTER (TYP)
 - ⑧ SMALL SHELTER (TYP)
 - ⑨ PLAYGROUND
 - ⑩ BASKETBALL COURT
 - ⑪ RENOVATED RESTROOMS / OFFICE
 - ⑫ PLAZA & EXISTING GROUP PAVILIONS
 - ⑬ DUGOUT & BENCHES
 - ⑭ SOFTBALL FIELD
 - ⑮ BENCH (TYP)

FINAL CONCEPT



DRAFT

THIS PAGE INTENTIONALLY LEFT BLANK

DRAFT

ARCHITECTURAL ELEMENTS

SPLASH PAD RESTROOM FACILITY

Proposed architectural elements that are incorporated into the Horton Park Master Plan include a restroom and changing facility near the splash pad. This building should be approximately 800 square feet with two or three separate restrooms / changing areas, and include a plaza area with shaded seating.

An example the proposed building and associated amenities can be found to the right:

Example of Restroom / Changing Facility



RENOVATIONS TO EXISTING STRUCTURES

In addition to the new restroom facility, the Horton Park Master Plan also includes renovations to the existing restroom and concession building building to include an office, as well as renovations to the existing shelters. Renovations to the restroom building should include new fixtures, ADA improvements, new restroom partitions and accessories, and the conversion of the existing concession area to a small office space. The building should also have new siding, a new roof, and new windows. The existing shelters should be updated to include new roofs, and replacement of any support elements that are in poor condition.

Interior or Existing Shelter



Existing Restrooms



ESTIMATE OF PROBABLE COST

COST CONSIDERATIONS

The cost estimates are based on current market trends, similar projects, and project-specific research conducted by the project team. The project team utilized all of its available resources and technical expertise to provide order-of-magnitude cost estimates that are for planning purposes only.

The vision for Horton Park may be modified over time in response to actual costs, future department objectives, and available funding sources. Additionally, it is recommended that proposed improvements undergo a detailed feasibility and costs analysis prior to physical implementation.

ESTIMATE OF PROBABLE COST

HORTON PARK COST ESTIMATES

LEE COUNTY PARKS MASTER PLAN COST ESTIMATES HORTON PARK

Version: Order of Magnitude Estimate of Probable Capital Improvement Costs (July 2018)

	Unit	Quantity	Unit Cost	Subtotal	Description	
Horton Park - 9.60 acres						
A. Site Prep & Demo						
1	Mobilization and General Conditions	lump sum	1	\$50,000.00	\$50,000	
2	Survey and Layout	lump sum	1	\$15,000.00	\$15,000	
3	Demolition	allowance	1	\$75,000.00	\$75,000	pump house, basketball court, utilities, pool, misc items, hauling
4	Site Clearing	acre	3.0	\$5,000.00	\$15,000	clear and grub - approximately 30% of site
5	Site Grading Including On-Site Balancing	acre	3.0	\$8,000.00	\$24,000	
6	Erosion Control	in ft	1,400	\$5.00	\$7,000	silt fence
Subtotal:					\$186,000	
B. Utilities						
1	Water Service Upgrades & Relocations	allowance	1	\$15,000.00	\$15,000	new service, valves, pipes, testing, taps, rpbp
2	Sanitary Service Upgrades & Relocations	allowance	1	\$18,000.00	\$18,000	new service, manholes, pipes, testing
3	Electrical Service Supply	allowance	1	\$15,000.00	\$15,000	transformers, conduits, meters, upgrades & relocations
4	Stormwater System	allowance	1	\$25,000.00	\$25,000	inlets, piping, outfalls, culverts, swales
5	Lighting - Pedestrian	each	15	\$6,500.00	\$97,500	12' lamp height, decorative poles, foundation, conduit
6	Lighting - Parking	each	4	\$12,500.00	\$50,000	14-16' lamp height, decorative poles, foundation, conduit
7	Lighting - Basketball	lump sum	1	\$15,000.00	\$15,000	LED package, 4-pole (25')
8	Lighting - Softball	lump sum	1	\$55,000.00	\$55,000	LED system, 50/30 6-poles, 20 fixtures w/controls
Subtotal:					\$290,500	
C. Buildings and Structures						
1	Office / Restroom Building	lump sum	1	\$160,000.00	\$160,000	update existing - replace concessions with office
2	Shower / Restroom Building	lump sum	1	\$180,000.00	\$180,000	720 sf restroom and shower for splashpad
3	Group Shelters	allowance	2	\$6,000.00	\$12,000	renovate existing, new roof, paint
4	Picnic Shelter - Family	each	3	\$18,000.00	\$54,000	12' x 12' prefabricated, metal roof, concrete slab
5	Picnic Shelter - Group	each	1	\$30,000.00	\$30,000	12' x 24' prefabricated, metal roof, concrete slab
6	Shade Structures	each	3	\$8,500.00	\$25,500	single shade rectangular umbrellas
7	Pedestrian Bridge	allowance	1	\$35,000.00	\$35,000	prefabricated, wood decking
Subtotal:					\$496,500	
D. Park Elements						
1	Splash Pad - Approximately 5,000 SF	allowance	1	\$300,000.00	\$300,000	above-ground & in-ground sprays, pump, vaults, filtration
2	Softball Field Renovation	allowance	1	\$45,000.00	\$45,000	clean infield, move fence, turf replacement, new 5-row bleachers
3	Entry Sign	each	1	\$20,000.00	\$20,000	new sign per county standard
4	Playgrounds	allowance	1	\$150,000.00	\$150,000	add & update equipment, replace resilient surfacing
5	Basketball	each	1	\$12,000.00	\$12,000	resurface, replace backboards/nets, striping
6	Wayfind and Signage	allowance	1	\$25,000.00	\$25,000	trail signage, directional signage, safety signage for splash pad
7	Site Furnishings	allowance	1	\$50,000.00	\$50,000	tables, benches, trash receptacles, drinking fountains
Subtotal:					\$602,000	
E. Hardscape						
1	Sidewalks	sq ft	10,000	\$4.50	\$45,000	6' wide concrete
2	Walking Trail	in ft	3,000	\$20.00	\$60,000	10' wide asphalt
3	Parking / Vehicle Paving	sq yd	1,700	\$25.00	\$42,500	asphalt paving, park entry drives, parking areas, striping
4	Specialty Plaza and Walks	sq ft	2,500	\$18.00	\$45,000	concrete pavers
Subtotal:					\$192,500	
F. Landscape						
1	General Landscape Improvements	allowance	1	\$75,000.00	\$75,000	trees, shrubs and ornamental plantings
Subtotal:					\$75,000	
Horton Park Subtotal:					\$1,842,500	
Construction Fees and Contingency						
					\$368,500	
					\$397,980	
Construction Fees and Contingency Subtotal:					\$766,480	

TOTAL: \$2,608,980

DRAFT

PHASING & IMPLEMENTATION STRATEGY

IMPLEMENTATION WORKSHOP

TO BE COMPLETED

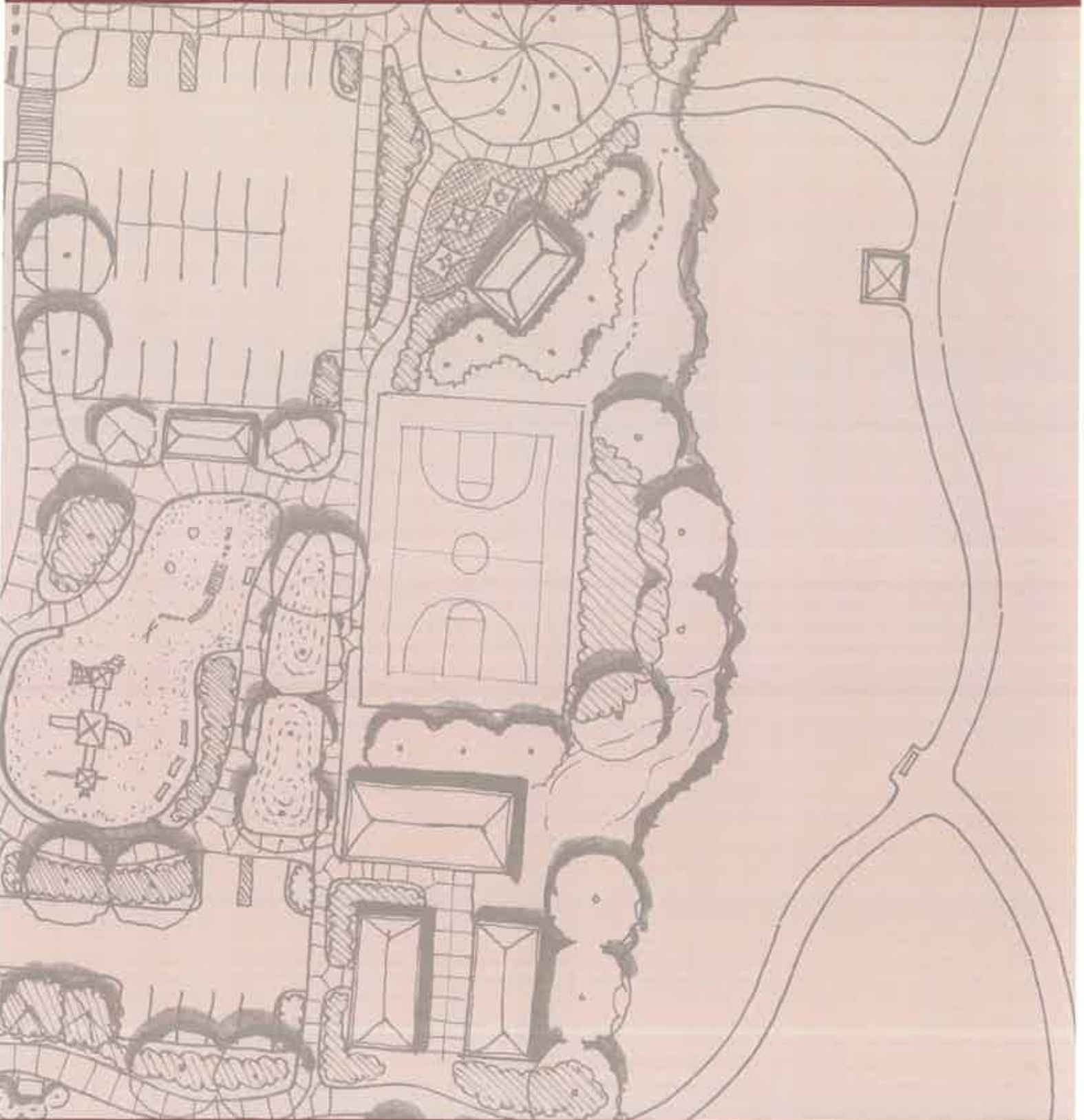
DRAFT

PHASING & IMPLEMENTATION STRATEGY

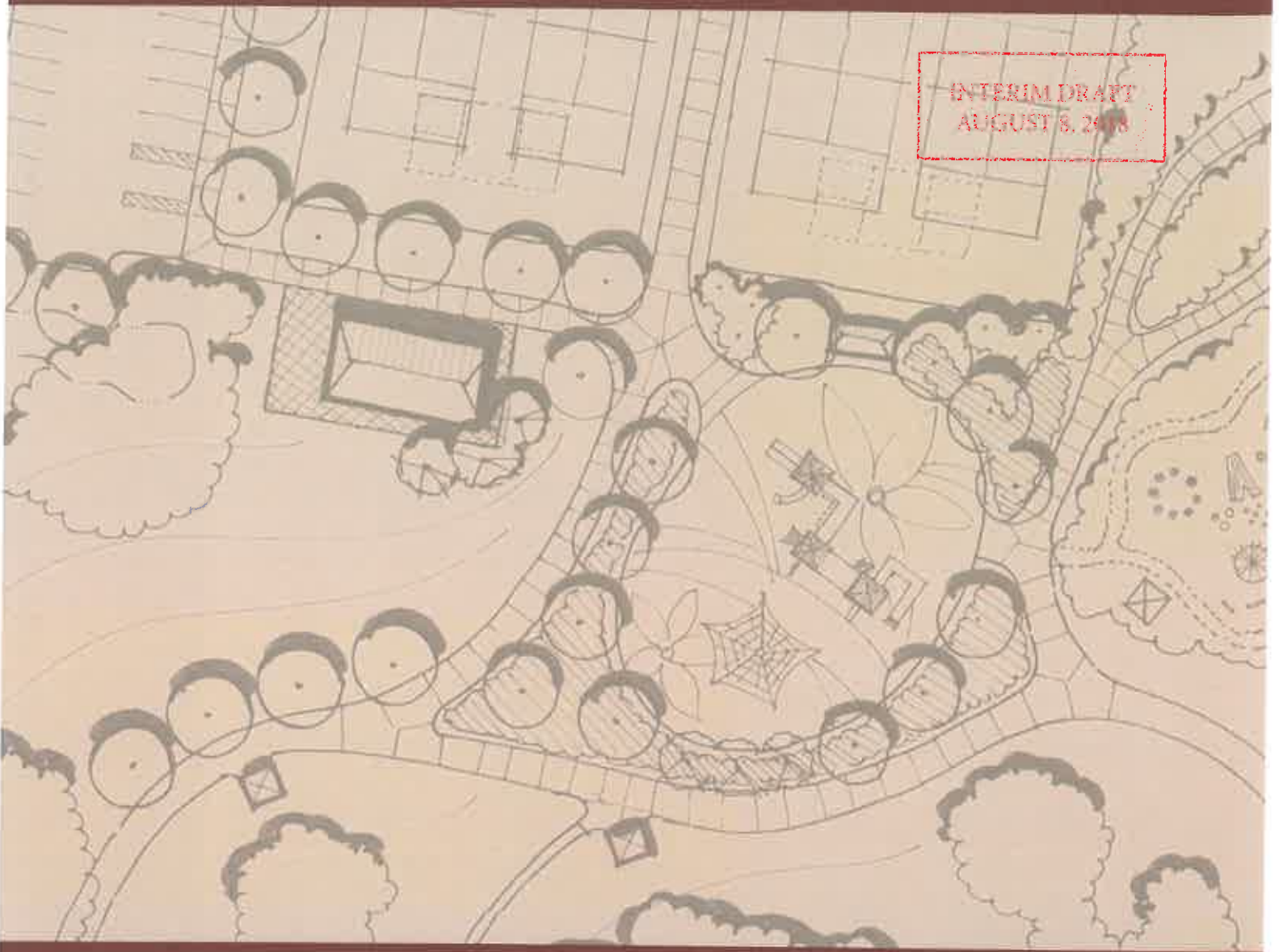
PHASING RECOMMENDATIONS

TO BE COMPLETED

DRAFT



INTERIM DRAFT
AUGUST 8, 2018



KIWANIS CHILDREN'S PARK

MASTER PLAN



DRAFT

Interim Draft Publish Date : July XX, 2018

Lee County
Parks & Recreation Department
2303 Tramway Road
Sanford, NC 27331
[https://leecountync.gov/
Departments/ParksRecreation](https://leecountync.gov/Departments/ParksRecreation)

This document has been prepared by WitherRavenel on behalf of The Lee County Parks and Recreation Department. Reproduction or distribution of this document and its contents are prohibited without approval of the Lee County Parks and Recreation Department. All contents of this document are the property of Lee County.



ACKNOWLEDGMENTS



County Commissioners

Chair

Amy Dalrymple - District At-Large

Vice Chairman

Tim Sloan - District 2

Cameron Sharpe - District At-Large

Kevin Dodson - District At-Large

Robert T. Reives - District 1

Dr. Andrew Knecht - District 3

Larry "Doc" Oldham - District 4

County Manager

John Crumpton

Clerk to the Board of County Commissioners

Jennifer Gamble

County Attorney

Whitney Parrish

Parks and Recreation Director

John Payne

General Services Director

Russel Spivey

Consultants

WithersRavenel

J Thomas Engineering

RMC Architectures

TABLE OF CONTENTS

■	Project Process and Purpose	6
■	Inventory and Analysis	8
■	Park Programming & Concept Development	12
■	Public Involvement	14
■	Final Park Concept and Precedent Images	16
■	Architectural Elements	21
■	Estimate of Probable Cost	22
■	Implementation Strategy & Phasing Recommendations	24

PROJECT PURPOSE AND PROCESS

PROJECT PURPOSE

The purpose of The Lee County Parks Master Plans is to establish a master plan vision for Lee County's parks with the objective of providing the Citizens of Lee County and the City of Sanford with quality parks and recreation facilities that support a healthy and vibrant quality of life for the area.

MASTER PLAN PROCESS

This master plan process is intended to better identify the needs of the community through a systematic method of research and community involvement. This approach extends beyond the specific property lines of the park in order to develop a cohesive plan that connects the park to the surrounding neighborhoods and provide an improved park experience for the residents that use them. Kiwanis Children's Park serves as important asset to the community, and this process is intended to insure that it continues to provide quality recreation experiences for future generations to come.

Research is the first step in the park planning process. Considering the unique aspects Kiwanis Children's Park, this step relied on research and inventory of existing conditions of the park and surrounding area, as well an analysis of previous planning documents like the Lee County Parks and Recreation Master Plan Update. Programming research also included the analysis of both park and program precedents that were consistent with stakeholder input.

The next step used a synthesis of information to develop a list of opportunities and challenges for the park and surrounding area These include considerations

Public Open House Meeting



PROJECT PURPOSE AND PROCESS

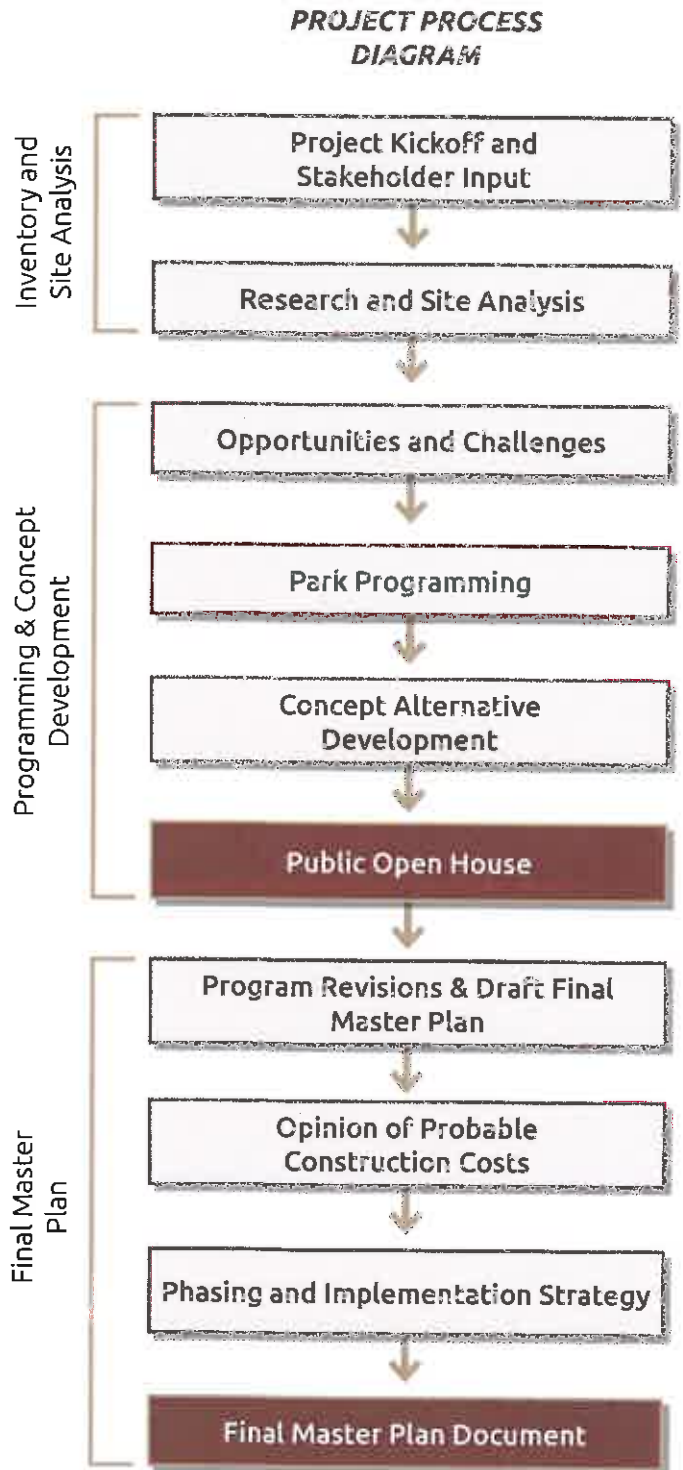
such as better pedestrian connections, improved parking and vehicular circulation, programming needs and sustainable practices. This led to defining form, function and programming for the park through a concept development process that considered multiple alternatives

Refined Alternative Development was the next phase of the process and began after initial form and function concepts were completed. Refinement of the concept alternatives focused on more detailed components such as sidewalk placement parking layouts, and amenity locations and size.

After the development of a concept alternatives for each park, a summary of the process and the alternatives was presented to the public at an open house. Effective public involvement is the key to a successful planning process. The process employed during this project provides transparency of the research and analysis with stakeholders and the general public to insure the needs of the public are met. Community input is integrated throughout the process and helped in the development of a cohesive park plan.

The public open house included a presentation of all site analysis findings, park programming precedent images, and concept alternatives for all four park locations. Consensus on programming and park development is the most important outcome of public involvement, ideally resulting in a preferred alternative for each park.

After receiving public input, the final step is the preparation of a Final Park Master Plan. This began with further development of the preferred alternative, including construction cost estimates. The finalized preferred alternative was then presented to the public through a second public meeting. After public input is gathered, an implementation meeting was held with county representatives to discuss funding priorities, strategies, and proposed phasing. After this was completed, the project team provided this Final Master Plan Document that will be a narrative and graphic compilation of the entire process. This document will then be presented to the Board of Commissioners for final adoption.



RESEARCH AND SITE ANALYSIS

SITE CONTEXT

Address: 101 Park Ave, Sanford NC
Area: 4.6 acres

Horton Park is located at the intersection of Kiwanis Children's Park is located at the intersection of Wicker Street and Carthage Street, within a few blocks of the downtown Sanford. There are few businesses along Carthage Street including two gas station., Elks Lodge #1679 is at the southern end, medical supply businesses along Park Avenue, and residential properties along Tryon Street. The Big Buffalo Creek tributary runs on the north and the Skunk creek flows along the southwest positioning the Kiwanis Park at the ridge of two streams.

EXISTING PARK AMENITIES

Existing park amenities at Kiwanis Children's Park include:

- Parking lot and parallel parking along Park Avenue
- Tennis courts
- Playground
- Picnic shelter
- Restroom
- Open play/ Passive recreation space

Vicinity Aerial



Park Sign



RESEARCH AND SITE ANALYSIS

SITE OBSERVATIONS

Kiwanis Children's Park is a respite from the urbanized development surrounding the site. The undulating landform and thriving mature trees provide appealing views into the site from Wicker Street and Carthage Street. The site slopes considerably from north to south. There is a drainage channel at the bottom of the slope along Wicker Street that eventually drains into Skunk Creek tributary towards the southwest side. The stream bank is eroded considerably because

of the steep slopes. There are no sidewalks along the periphery of the park property. A chain link fence is located along Carthage Street. The staircase along Wicker Street has broken treads and is not functional because of the lack of sidewalk along the street. There is a paved parking lot close to the intersection of Park Avenue and Tryon Street which needs to be updated for better vehicular circulation, ADA parking, and stormwater drainage. The retaining wall at the parking

Tennis Courts



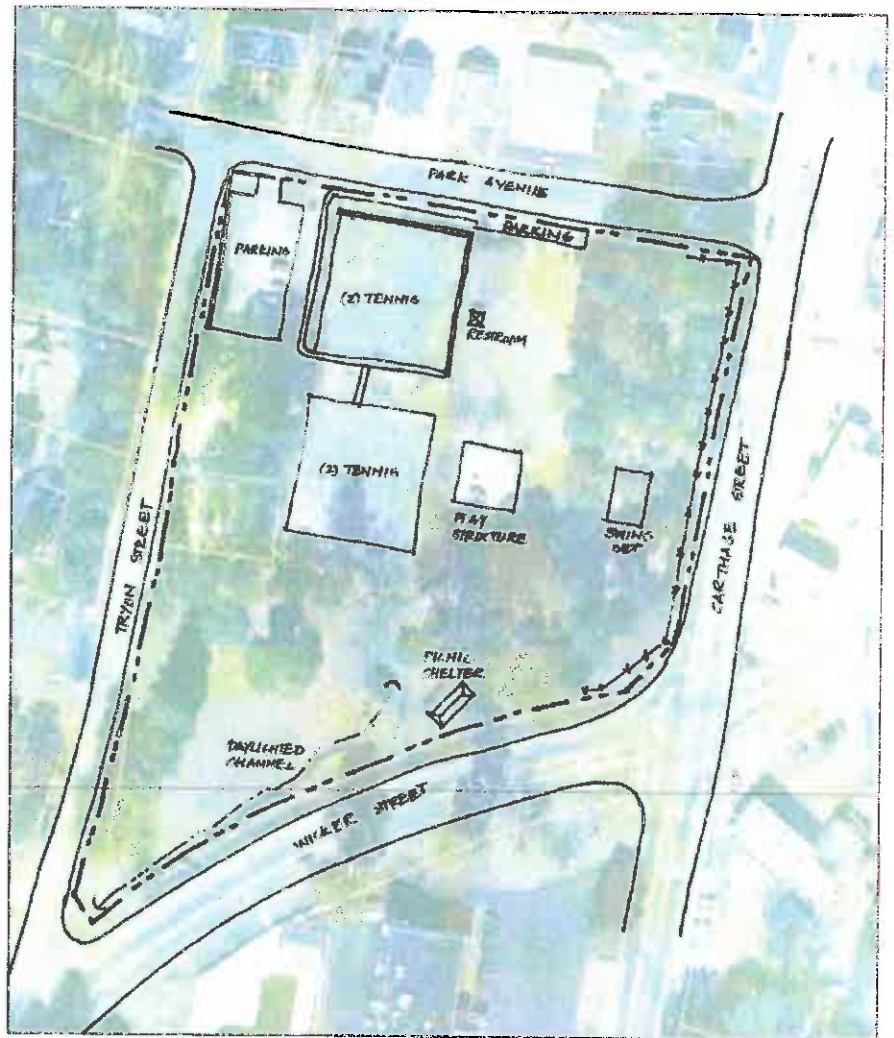
Picnic Shelter



Restroom Building



Existing Site Elements



DRAFT

RESEARCH AND SITE ANALYSIS

lot needs to be updated and a new safety fence needs to be added along the wall. Many visitors and staff from businesses across the street park along the Park Avenue. There is no defined entrance to the park. The park identification sign is located at Wicker Street where there is no entrance into the park.

There are four tennis courts close to the parking lot. The court surfacing is cracked at many places and is in need of replacement. The water fountain close to one tennis court is non-functional. There are two playground areas- one with swing sets and other one with smaller play structure, merry-go-round, and rockers. The play structure area does not have shade but the swings area is placed in the shade of mature grove of trees. Both play areas need to be brought to CPSC compliance in terms of fall safety surfacing, ADA access, and removal of outdated structures.

Many trees throughout the park have exposed roots system because of the soil erosion providing an evidence that the park could use better stormwater management techniques. There are many locations in the park where the stormwater is piped to a point,

daylighted through a channel for some distance, eventually draining to the larger daylighted drainage channel.

There is a large picnic shelter close to the drainage channel that needs to be updated and relocated close to the accessible pathway. Because of the proximity to the stream and drainage issue, the area around the shelter is saturated.

The restroom building is located towards the northern end, just east of the tennis court. Part of the outside wall is used as information bulletin board. The restroom is in good condition, though there is no accessible pathway to the building.

There are plans in progress for Wicker Street-Kiwanis Park Greenway. This greenway is being proposed from Wicker Street and Tryon Street intersection, through the park connecting back to Wicker street close to Carthage Street intersection.

Additional site photos can be found below and on the following page:

Main Parking Lot



Non-designated Parking



Brick Stairs



Undulating Topography



Stormwater Sheetflow



View from Carthage Street and Park Ave



RESEARCH AND SITE ANALYSIS

Playground Equipment



Swings Area



Daylighted Stormwater Channel



Daylighted Stormwater Pipe



Exposed Tree Roots



View from Tryon Street



Stormwater Inlets



Sign at Tryon Street and Carthage Street



Tables in Picnic Area



PARK PROGRAMMING AND CONCEPT DEVELOPMENT

OPPORTUNITIES & CONSTRAINTS

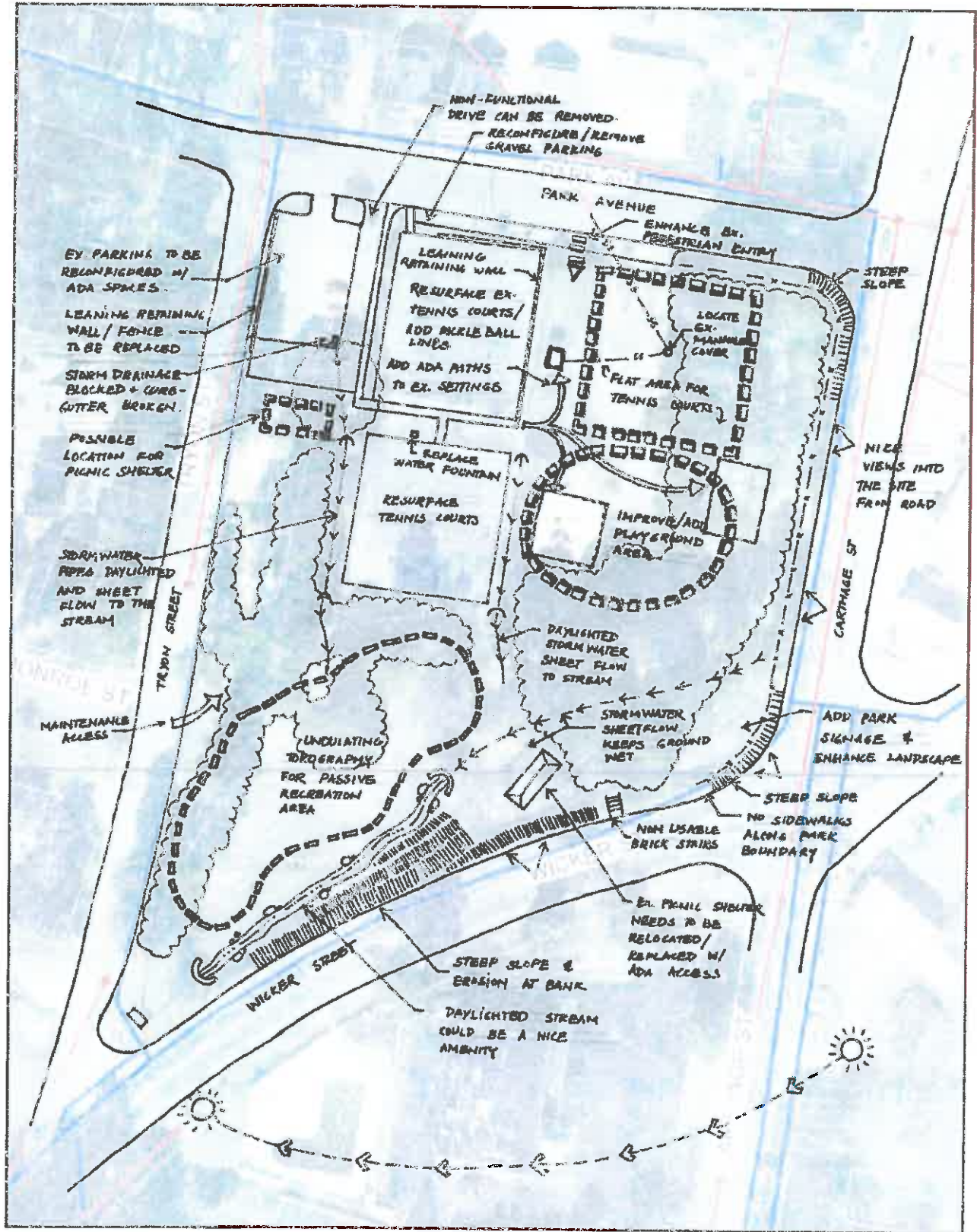
The information obtained inventory and site analysis during the Inventory and Site Analysis phase provided the project team with a comprehensive understanding of the existing conditions in Kiwanis Children's Park, and established a basis for identifying opportunities and constraints, as well as programming and initial concept development. Found on the following page, the Opportunities and Constraints map serves as the foundation for the development of concept alternatives and program elements.

Based on the findings from the opportunities and constraints analysis, as well as conversations with County staff, the following design program elements were identified for Kiwanis Children's Park.:

- Trailhead for Wicker Street Greenway
- Update and resurface existing tennis courts, update lighting
- Alternative for new tennis courts adjacent to existing courts
- Restripe tennis courts for pickleball
- Renovate and expand playground design and equipment
- Provide nature play elements
 - Sand/water play
 - Musical play
 - Grass mounds/topographic elements
- Renovate or replace existing restroom facility
- Replace/relocate existing group picnic shelter
 - New shelter to accommodate sixty (60) guests
 - Potential to combine with restroom as part of trailhead
- Enhance existing pedestrian entries
- Small (12' x12') picnic shelters
- Walking trails
- Enhance access to stream
- Redesign onsite parking
- Redesign parking on perimeter
- Additional park signage
- Update and provide additional site furnishings
- Stormwater improvements
- ADA accessibility
- Enhance landscape features and plantings to accentuate existing topography and viewsheds

PARK PROGRAMMING AND CONCEPT DEVELOPMENT

Opportunities and Constraints Map



PUBLIC INVOLVEMENT

PUBLIC OPEN HOUSE

On May 29th, 2018, a public meeting was held to gather public input as part of the Parks Master Plan Process for all four parks that were included in the Master Plan effort. The Lee County Parks and Recreation Advisory Board met at 5:30 p.m. in the Gordon Wicker Conference Room in the Lee County Government Center. Following the Board Meeting, The project team gave a 15-minute presentation on the overall Master Plan process and the progress to date. The presentation also included an overview of the existing conditions and concepts for each park. When the presentation concluded, public in attendance were asked to visit stations set up around the room, where full scale concepts of each park were set up. Existing conditions photos and a green dot preference exercise with precedent images were also accompanied each park concept. WithersRavenel staff were available at each station to answer questions and encourage participants to provide comments.

The following comments were recorded for Kiwanis Children's Park:

- Add full court basketball with 8ft goals, 40ft court with a 3ft fence. Include signage for kids 10 and under only
- Include pickleball

In addition to written comments, participants were also presented with precedent image boards, and asked to place three green dots on the program element images that they felt should be a priority. The following tables shows the results of the green dot exercise for Kiwanis Children's Park, with the top six program elements highlighted.



PUBLIC INVOLVEMENT

Green Dot Exercise Results

Kiwanis Children's Park		
Program Element	# of Dots	% of Responses
Tennis/Pickleball	16	25.0%
Playground	14	21.9%
Natural Play	8	12.5%
Public Art	7	10.9%
Picnic Shelters	6	9.4%
Walking Trails	4	6.3%
Educational Signage	4	6.3%
Access to Natural Areas	3	4.7%
Gathering Spaces	2	3.1%
Green Space	0	0.0%
Parking Improvements	0	0.0%
Stormwater	0	0.0%
Total # of Dots Placed	64	100.0%

Precedent Image Board



FINAL CONCEPT

FINAL CONCEPT ELEMENTS

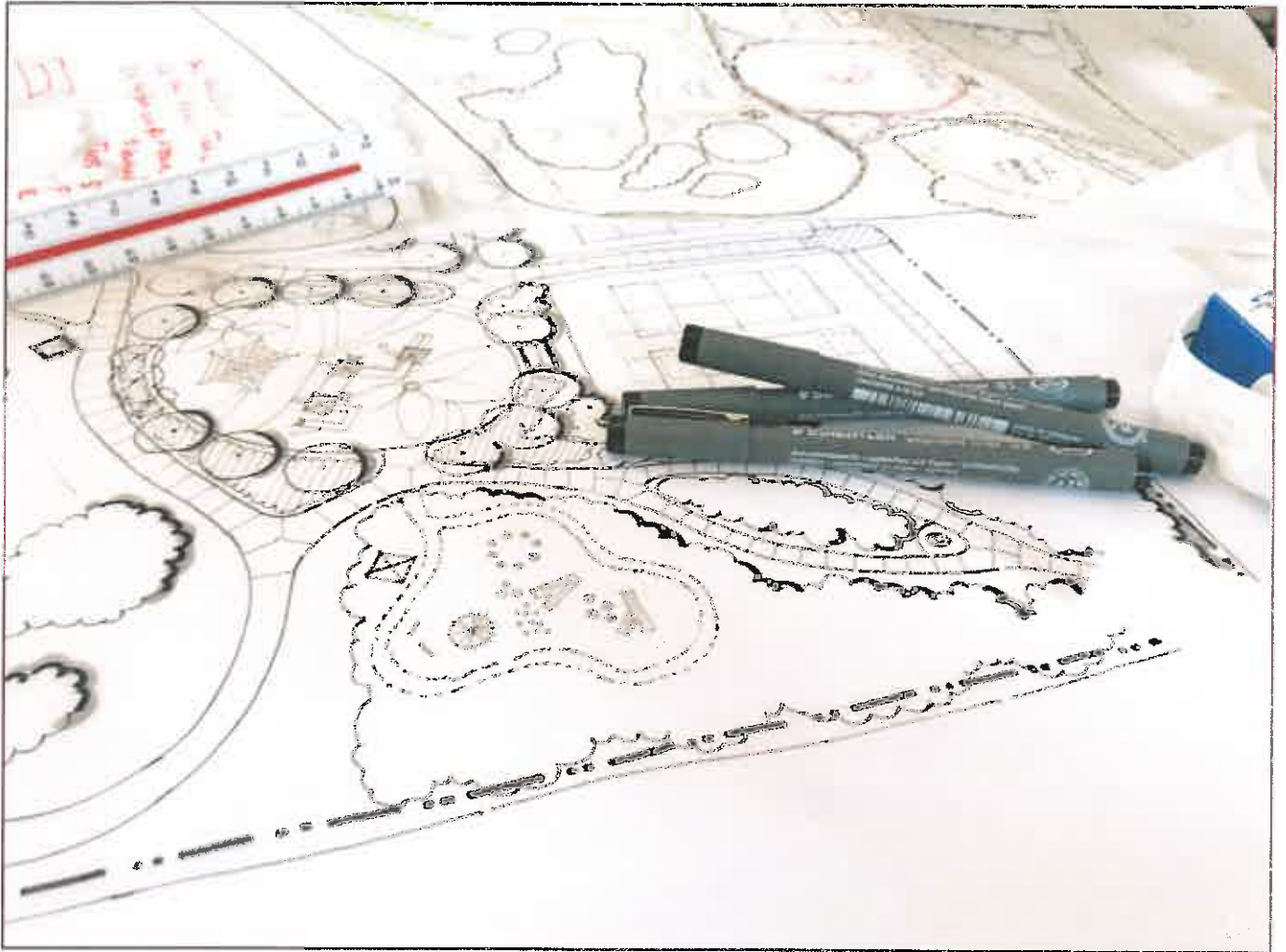
Once the Public Involvement Phase was completed, the project team summarized all written comments, the results from the green dot exercise, and any notes taken during conversations with stakeholders and public participants. The project team then developed a list of action items for revisions to the Kiwanis Children's Park Concept, and presented these to County staff. Once the staff reviewed these action items and gave their recommendations, the project team proceeded with the final park concept for Kiwanis Children's Park.

The final concept includes the following programmatic and design elements for Kiwanis Children's Park:

- Improved and expanded parking lot to approximately 28 spaces, with repaired retaining walls and accessible parking.
- ADA accessible walkways to amenities throughout the site.
- Improved and re-striped on-street parking with approximately 20 spaces, including accessible parking along Park Avenue.
- Resurfaced north tennis court with pickleball striping.
- Relocated south tennis court adjacent to north court with pickleball striping.
- Enhanced park entrance off the corner of Park Avenue and Carthage Street, with public art.
- Stormwater management area adjacent to parking lot.
- Group pavilion / restroom building with plaza that serves as a trailhead for the Wicker Street Greenway.
- Large picnic shelters near playground and Wicker Street Greenway.
- Nature play area adjacent to playground area.
- Preserved open space with natural topography.
- Upgraded playground equipment with inclusive surfacing.
- Wicker Street Greenway connecting the corner of Wicker Street and Carthage Street to the corner of Wicker Street and Tryon Street.
- Small picnic shelters near amenities throughout the park.
- Stream restoration to existing daylighted stream along the southern edge of the park.
- Landscape improvements and enhancements throughout the park.

The final concept for Kiwanis Children's Park is can be found on the following spread, along with the top ten precedent images selected during the green dot exercise.

FINAL CONCEPT



ILLUSTRATIVE CONCEPT & PRECEDENT IMAGES

The fold-out map on the next page shows the illustrative final concept for Kiwanis Children's Park, with the location of the primary features and amenities. Below are the top ten precedent images selected by participants in the green dot exercise.

TENNIS / PICKLEBALL



PLAYGROUND



NATURE PLAY



PUBLIC ART



PICNIC SHELTERS



WALKING TRAILS



EDUCATIONAL SIGNAGE



ACCESS TO NATURAL AREAS



GATHERING SPACES



GREEN SPACE



DRAFT



- KEY
- 1 PARKING
 - 2 TENNIS & PICKLEBALL COURTS
 - 3 PUBLIC ART
 - 4 STORMWATER MANAGEMENT AREA
 - 5 GROUP PAVILION / RESTROOM & PLAZA
 - 6 LARGE SHELTER (TYP)
 - 7 NATURE PLAY AREA
 - 8 OPEN PLAY
 - 9 PLAYGROUND
 - 10 WICKER STREET GREENWAY
 - 11 SMALL SHELTER (TYP)
 - 12 STREAM RESTORATION



FINAL CONCEPT



DRAFT

THIS PAGE INTENTIONALLY LEFT BLANK

ARCHITECTURAL ELEMENTS

RESTROOM & SHELTER

Proposed architectural elements that are incorporated into the Kiwanis Children’s Park Master Plan include the replacement of the existing restroom facility with a new restroom building attached to a large group pavilion. This building should contain two sets of restrooms, enough space for up to four picnic tables, and amenities such as drinking fountains, bike racks and a bike repair station. This restroom and pavilion building will serve as a trailhead for the Wicker Street Greenway that will run through the park, providing amenities in close proximity to parking and other program elements of Kiwanis Children’s Park.

An example the proposed building and associated amenities can be found below:

Example of Bike Repair Station



Example of Restroom / Group Pavilion



ESTIMATE OF PROBABLE COST

COST CONSIDERATIONS

The cost estimates are based on current market trends, similar projects, and project-specific research conducted by the project team. The project team utilized all of its available resources and technical expertise to provide order-of-magnitude cost estimates that are for planning purposes only.

The vision for Kiwanis Children's Park may be modified over time in response to actual costs, future department objectives, and available funding sources. Additionally, it is recommended that proposed improvements undergo a detailed feasibility and costs analysis prior to physical implementation.

ESTIMATE OF PROBABLE COST

KIWANIS CHILDREN'S PARK COST ESTIMATES

	LEE COUNTY PARKS MASTER PLAN COST ESTIMATES <small>Version - Order of Magnitude Estimate of Probable Capital Improvement Costs - July 2018</small>	KIWANIS CHILDREN'S PARK
---	--	--------------------------------

	Unit	Quantity	Unit Cost	Subtotal	Description	
Kiwanis Children's Park - 4.6 acres						
A. Site Prep & Demo						
1	Mobilization and General Conditions	lump sum	1	\$35,000.00	\$35,000	
2	Survey and Layout	lump sum	1	\$15,000.00	\$15,000	
3	Site Clearing	acre	2.0	\$5,000.00	\$10,000	clear and grub - approximately 50% of site
4	Site Grading Including On-Site Balancing	acre	2.0	\$8,000.00	\$16,000	
5	Erosion Control	ln ft	1,200	\$5.00	\$6,000	silt fence / wattle
6	Construction Entrance	each	1	\$3,000.00	\$3,000	
7	Demolition	allowance	1	\$35,000.00	\$35,000	existing restroom, tennis courts, pavilion, hauling
	Subtotal:				\$120,000	
B. Utilities						
1	Sanitary Service Supply & Upgrades	allowance	1	\$7,500.00	\$7,500	new service, manholes, pipes, testing
2	Water Service Supply & Upgrades	allowance	1	\$8,000.00	\$8,000	new service, valves, pipes, testing, taps, rppb
3	Stormwater System	allowance	1	\$40,000.00	\$40,000	inlets, piping, outfalls, culverts, swales
4	Electrical Service Supply	allowance	1	\$20,000.00	\$20,000	transformers, conduits, meters, upgrades & relocations
5	Lighting - Pedestrian	each	10	\$6,500.00	\$65,000	12' lamp height, decorative poles, foundation, conduit
6	Lighting - Parking	each	6	\$12,500.00	\$75,000	14-16' lamp height, decorative poles, foundation, conduit
7	Lighting - Tennis Courts	allowance	1	\$30,000.00	\$30,000	LED package, 6-pole (25')
	Subtotal:				\$245,500	
C. Buildings and Structures						
1	Group Shelter w/ Restroom & Storage	allowance	1	\$120,000.00	\$120,000	1,200 sf, restrooms and pavilion and bike repair station
2	Picnic Shelter - Family	each	3	\$18,000.00	\$54,000	12' x 12' prefabricated, metal roof, concrete slab
3	Picnic Shelter - Group	each	2	\$30,000.00	\$60,000	12' x 24' prefabricated, metal roof, concrete slab
	Subtotal:				\$234,000	
D. Park Elements						
1	Playgrounds	allowance	1	\$250,000.00	\$250,000	add / update, replace resilient surfacing, nature play area
2	Tennis Courts - Resurface	lump sum	1	\$20,000.00	\$20,000	resurface existing, colored, striping, net, fencing, 2 courts
3	Tennis Courts - New	lump sum	1	\$75,000.00	\$75,000	asphalt, colored, striping, net, fencing, 2 courts
4	Wayfinding and Signage	allowance	1	\$65,000.00	\$65,000	entry signs (2), trailhead signage, educational signage for stream
5	Site Furnishings	allowance	1	\$30,000.00	\$30,000	tables, benches, trash receptacles, drinking fountains, etc.
6	Public Art	allowance	1	\$10,000.00	\$10,000	at entrance from Carthage and Park corner
	Subtotal:				\$450,000	
E. Hardscape						
1	Sidewalks	sq ft	8,500	\$4.50	\$38,250	6' wide concrete
2	Parking / Vehicle Paving	sq yd	1,500	\$25.00	\$37,500	asphalt paving for both parking areas, striping
3	Specialty Plaza & Walks	sq ft	3,000	\$18.00	\$54,000	concrete pavers, sand set
	Subtotal:				\$129,750	
F. Landscape						
1	General Landscape Improvements	allowance	1	\$75,000.00	\$75,000	trees, shrubs and ornamental plantings
2	Stream Restoration	allowance	1	\$50,000.00	\$50,000	bank stabilization and plantings
	Subtotal:				\$125,000	
Kiwanis Children's Park Subtotal					\$1,304,250	
Construction Fees and Contingency						
	Contingency (20%)				\$260,850	
	Design, Permitting & Inspection (18%)				\$281,718	
Construction Fees and Contingency Subtotal:					\$542,568	
TOTAL:					\$1,846,818	

PHASING & IMPLEMENTATION STRATEGY

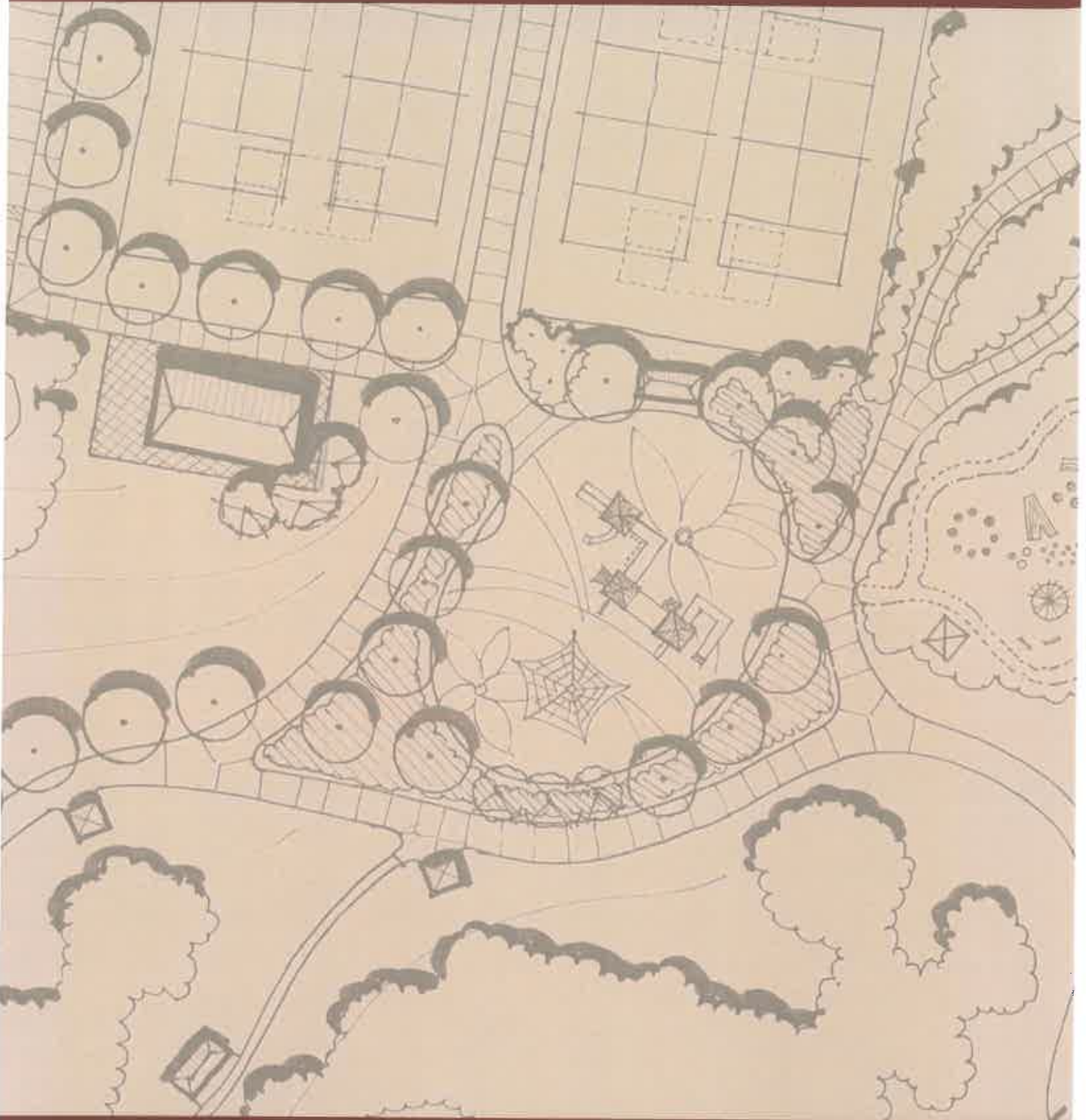
IMPLEMENTATION WORKSHOP

TO BE COMPLETED

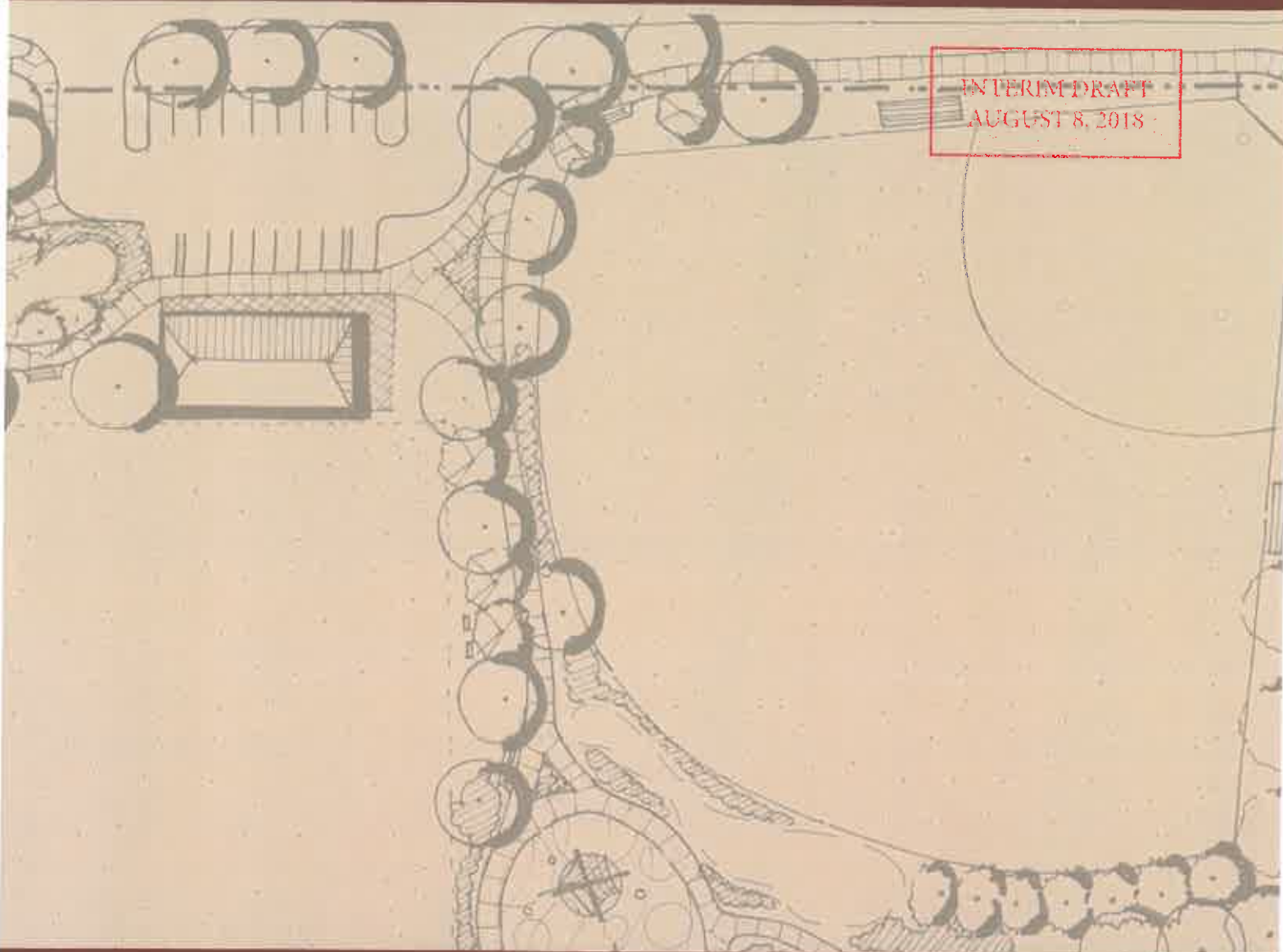
PHASING & IMPLEMENTATION STRATEGY

PHASING RECOMMENDATIONS

TO BE COMPLETED



INTERIM DRAFT
AUGUST 8, 2018



TEMPLE PARK

MASTER PLAN

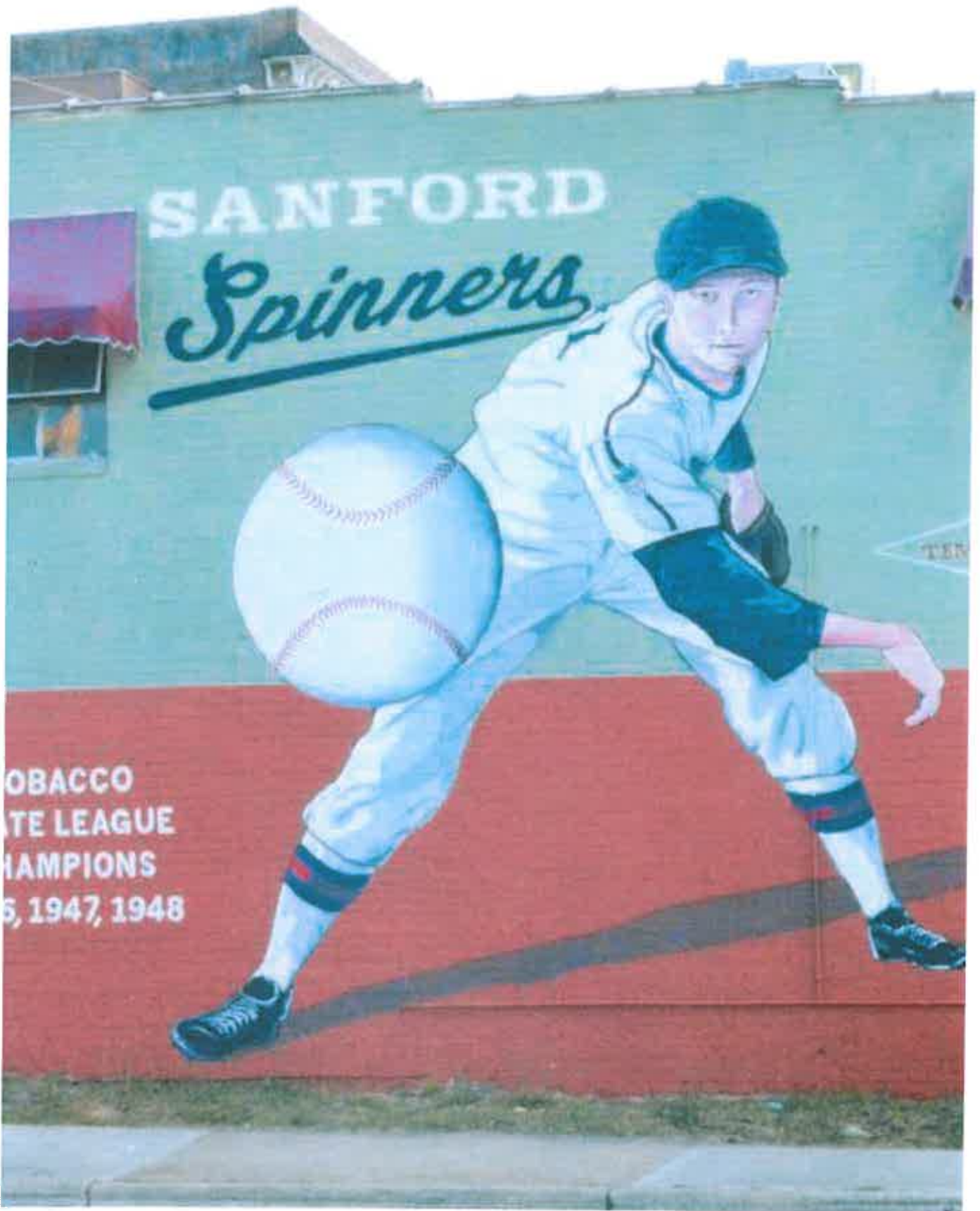


DRAFT

Interim Draft Publish Date : July XX, 2018

Lee County
Parks & Recreation Department
2303 Tramway Road
Sanford, NC 27331
[https://leecountync.gov/
Departments/ParksRecreation](https://leecountync.gov/Departments/ParksRecreation)

This document has been prepared by WitherRavenel on behalf of The Lee County Parks and Recreation Department. Reproduction or distribution of this document and its contents are prohibited without approval of the Lee County Parks and Recreation Department. All contents of this document are the property of Lee County.



ACKNOWLEDGMENTS



County Commissioners

Chair

Amy Dalrymple - District At-Large

Vice Chairman

Tim Sloan - District 2

Cameron Sharpe - District At-Large

Kevin Dodson - District At-Large

Robert T. Reives - District 1

Dr. Andrew Knecht - District 3

Larry "Doc" Oldham - District 4

County Manager

John Crumpton

Clerk to the Board of County Commissioners

Jennifer Gamble

County Attorney

Whitney Parrish

Parks and Recreation Director

John Payne

General Services Director

Russel Spivey

Consultants

WithersRavenel

J Thomas Engineering

RMC Architectures

TABLE OF CONTENTS

■ Project Process and Purpose	6
■ Inventory and Analysis	8
■ Park Programming & Concept Development	12
■ Public Involvement	14
■ Final Park Concept and Precedent Images	16
■ Architectural Elements	21
■ Estimate of Probable Cost	22
■ Implementation Strategy & Phasing Recommendations	24

PROJECT PURPOSE AND PROCESS

PROJECT PURPOSE

The purpose of The Lee County Parks Master Plans is to establish a master plan vision for Lee County's parks with the objective of providing the Citizens of Lee County and the City of Sanford with quality parks and recreation facilities that support a healthy and vibrant quality of life for the area.

MASTER PLAN PROCESS

This master plan process is intended to better identify the needs of the community through a systematic method of research and community involvement. This approach extends beyond the specific property lines of the park in order to develop a cohesive plan that connects the park to the surrounding neighborhoods and provide an improved park experience for the residents that use them. Temple Park serves as important asset to the community, and this process is intended to insure that it continues to provide quality recreation experiences for future generations to come.

Research is the first step in the park planning process. Considering the unique aspects Temple Park, this step relied on research and inventory of existing conditions of the park and surrounding area, as well as an analysis of previous planning documents like the Lee County Parks and Recreation Master Plan Update. Programming research also included the analysis of both park and program precedents that were consistent with stakeholder input.

The next step used a synthesis of information to develop a list of opportunities and challenges for the park and surrounding area These include considerations

Public Open House Meeting



PROJECT PURPOSE AND PROCESS

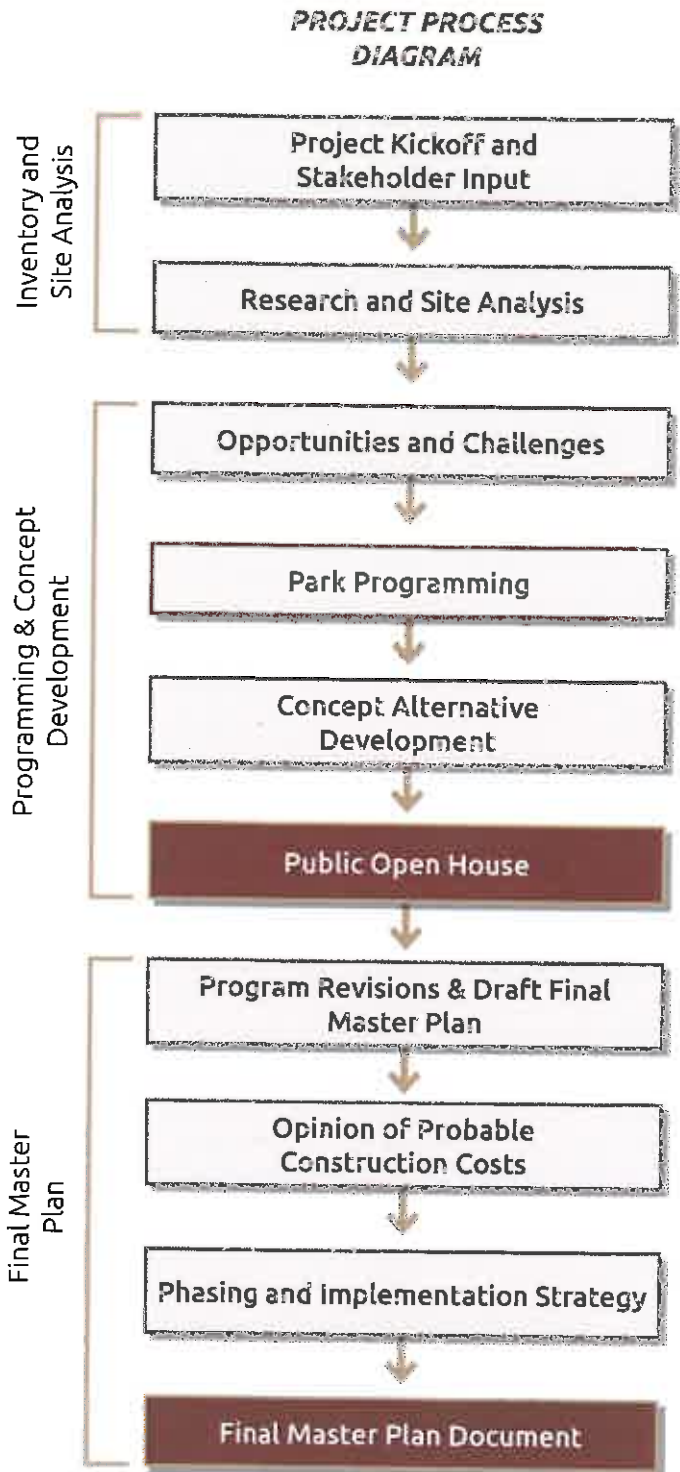
such as better pedestrian connections, improved parking and vehicular circulation, programming needs and sustainable practices. This led to defining form, function and programming for the park through a concept development process that considered multiple alternatives

Refined Alternative Development was the next phase of the process and began after initial form and function concepts were completed. Refinement of the concept alternatives focused on more detailed components such as sidewalk placement parking layouts, and amenity locations and size.

After the development of a concept alternatives for each park, a summary of the process and the alternatives was presented to the public at an open house. Effective public involvement is the key to a successful planning process. The process employed during this project provides transparency of the research and analysis with stakeholders and the general public to insure the needs of the public are met. Community input is integrated throughout the process and helped in the development of a cohesive park plan.

The public open house included a presentation of all site analysis findings, park programming precedent images, and concept alternatives for all four park locations. Consensus on programming and park development is the most important outcome of public involvement, ideally resulting in a preferred alternative for each park.

After receiving public input, the final step is the preparation of a Final Park Master Plan. This began with further development of the preferred alternative, including construction cost estimates. The finalized preferred alternative was then presented to the public through a second public meeting. After public input is gathered, an implementation meeting was held with county representatives to discuss funding priorities, strategies, and proposed phasing. After this was completed, the project team provided this Final Master Plan Document that will be a narrative and graphic compilation of the entire process. This document will then be presented to the Board of Commissioners for final adoption.



RESEARCH AND SITE ANALYSIS

SITE CONTEXT

**Address: 204 S Seventh Street,
Sanford NC**
Area: 4.58 acres

Temple Park, set in the midst of East Sanford Neighborhood District occupies an entire city block bounded by South Seventh Street, South Eighth Street, McIver Street, and Maple Avenue. The neighborhood is recognized as historic district and showcases vernacular architecture as simple housing examples of the Queen Anne, Colonial Revival, Craftsman, Period Cottage, and Minimal Traditional styles.

EXISTING PARK AMENITIES

Existing park amenities at Temple Park include:

- Gravel parking lot
- (2) baseball/ softball fields
- Concession stand/ Restroom Building
- Material storage area

Vicinity Aerial



Park Sign



RESEARCH AND SITE ANALYSIS

SITE OBSERVATIONS

The block that occupies Temple Park was in use as ball field since 1925, then a meadow by 1938 per Sanborn maps. Since 1939 to 1951, the park was used by Spinners- a professional baseball team. The historic grandstand was demolished in 1960 and the site currently occupies two softball fields, a building with restrooms and convenience shop, and a small gravel parking lot.

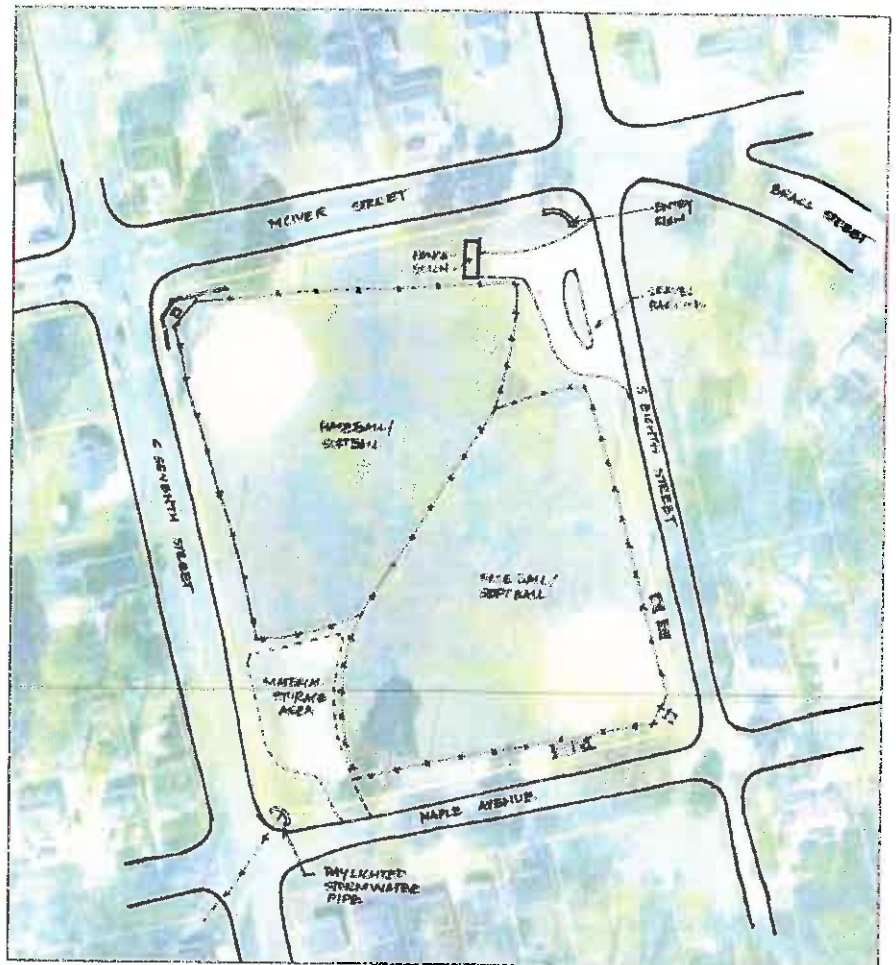
The fields are in need of repair and so is the building which is currently locked down. There are signs of vandalism on the building surface. There is an entry monument located at NE corner of the site which can be updated and dressed up with landscaping.

The SE corner of the site has topography challenges where the metal bleachers are placed currently. This corner can also be addressed with addressing the

Existing Parking Area off 8th Street



Existing Site Elements



Restroom / Concession Building



Dugout and Bleachers



RESEARCH AND SITE ANALYSIS

slope, adding some site furniture, and landscaping. The scorer's box is in need of replacement.

There is underground stormwater pipe leakage in the line running from the N E property line to SW corner where the culvert opens up and piped again under the 7th Street. The culvert needs to be repaired and the slope around it needs to be stabilized to minimize soil erosion and create safer conditions around the culvert. There is a maintenance vehicle access at SW corner where site materials are stored. Screening this area will help with the views into the site from the intersection of South 7th Street and Maple Avenue.

Both the fields are lighted but the lights and posts are in need of repairs or replacement.

Additional site photos can be found below and on the following page:

Infield



View from Seventh Street



Maintenance Access



Daylighted Storm Pipe and Erosion



Gas Line Posts



Historic Signage



RESEARCH AND SITE ANALYSIS

Backstop



Gravel Parking Area off of 8th Street



Outfield



Swale Along Maple Avenue



Material Storage



Slope Along 7th Street



Slope Along 8th Street



Exposed Tree Roots



View of Field



PARK PROGRAMMING AND CONCEPT DEVELOPMENT

OPPORTUNITIES & CONSTRAINTS

The information obtained inventory and site analysis during the Inventory and Site Analysis phase provided the project team with a comprehensive understanding of the existing conditions in Temple Park, and established a basis for identifying opportunities and constraints, as well as programming and initial concept development. Found on the following page, the Opportunities and Constraints map serves as the foundation for the development of concept alternatives and program elements.

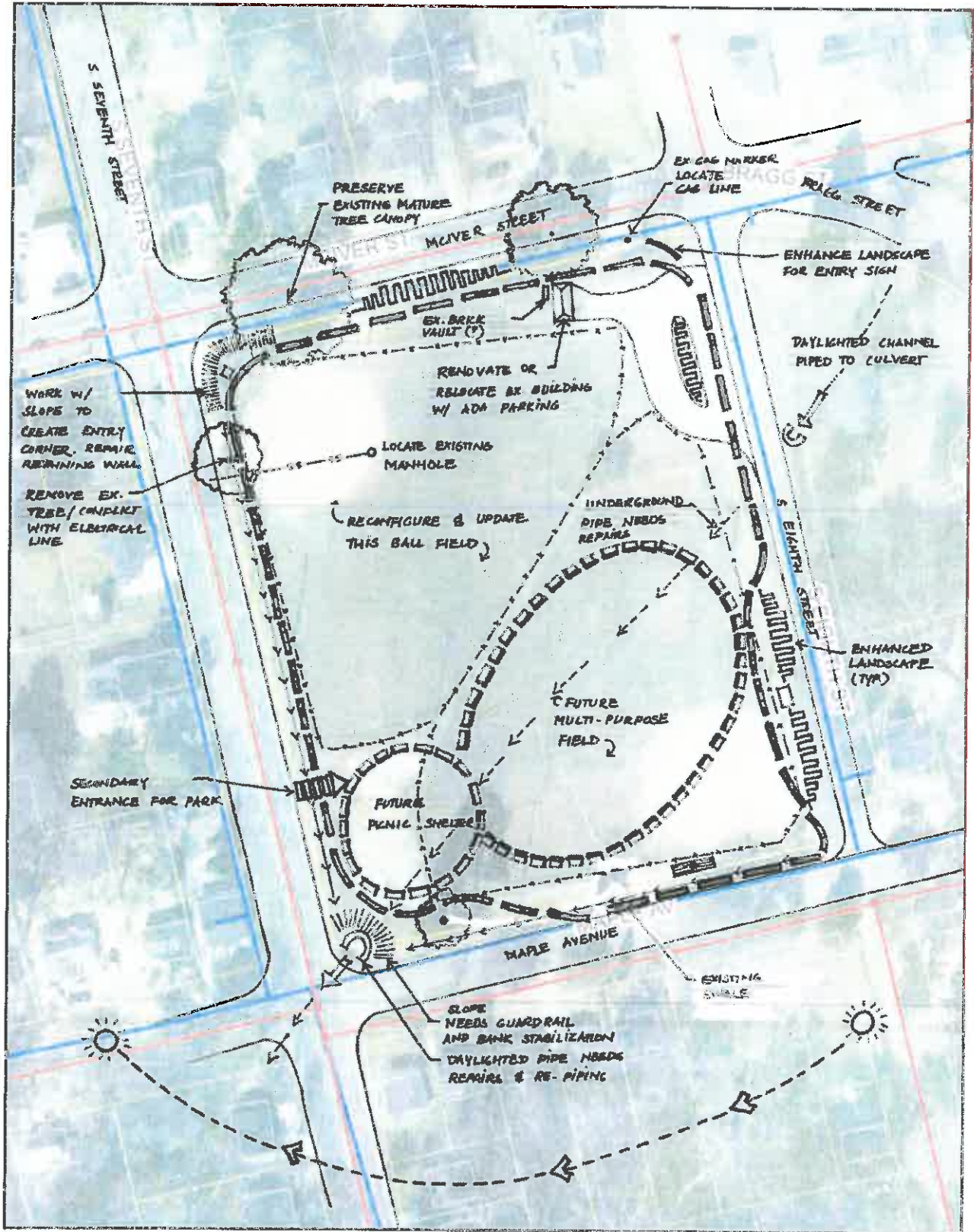
- Address open drainage and slope at Maple Ave and 7th St Intersection
- Address slope at 7th Street and McIver Street
- Enhance landscape features and plantings throughout site

Based on the findings from the opportunities and constraints analysis, as well as conversations with County staff, the following design program elements were identified for Temple Park.:

- Renovate one existing softball field
- Convert other existing softball field to a multipurpose field to accommodate open space play, football and soccer
- Renovate/replace existing restroom/concession facility to include maintenance storage
- Improve existing parking to accommodate more vehicles
- Large picnic shelter
- Small (12' x12') picnic shelters
- Small playground (+/- 5,000 sf)
- Basketball Court
- Incorporate walking trails connected to amenities
- Sidewalk around perimeter
- ADA accessibility
- Improve park signage

PARK PROGRAMMING AND CONCEPT DEVELOPMENT

Opportunities and Constraints Map



PUBLIC INVOLVEMENT

PUBLIC OPEN HOUSE

On May 29th, 2018, a public meeting was held to gather public input as part of the Parks Master Plan Process for all four parks that were included in the Master Plan effort. The Lee County Parks and Recreation Advisory Board met at 5:30 p.m. in the Gordon Wicker Conference Room in the Lee County Government Center. Following the Board Meeting, The project team gave a 15-minute presentation on the overall Master Plan process and the progress to date. The presentation also included an overview of the existing conditions and concepts for each park. When the presentation concluded, public in attendance were asked to visit stations set up around the room, where full scale concepts of each park were set up. Existing conditions photos and a green dot preference exercise with precedent images were also accompanied each park concept. WithersRavenel staff were available at each station to answer questions and encourage participants to provide comments.

The following comments were recorded for Temple Park:

- Add full court basketball with 8ft goals, 40ft court with a 3ft fence. Include signage for kids 10 and under only (LeVerne Kinney)
- Include pickleball

In addition to written comments, participants were also presented with precedent image boards, and asked to place three green dots on the program element images that they felt should be a priority. The following tables shows the results of the green dot exercise for Temple Park, with the top six program elements highlighted.



PUBLIC INVOLVEMENT

Green Dot Exercise Results

Temple Park		
Program Element	# of Dots	% of Responses
Playground	12	17.1%
Restroom/Concessions	10	14.3%
Basketball	9	12.9%
Picnic Shelters	7	10.0%
Park Monument	6	8.6%
Multipurpose Fields	6	8.6%
Walking Paths	6	8.6%
Parking Improvements	5	7.1%
Streetscape and Crosswalk Improvements	4	5.7%
Baseball/Softball	4	5.7%
Stormwater	1	1.4%
Entry Plaza	0	0.0%
Total # of Dots Placed	70	100.0%

Precedent Image Board



FINAL CONCEPT

FINAL CONCEPT ELEMENTS

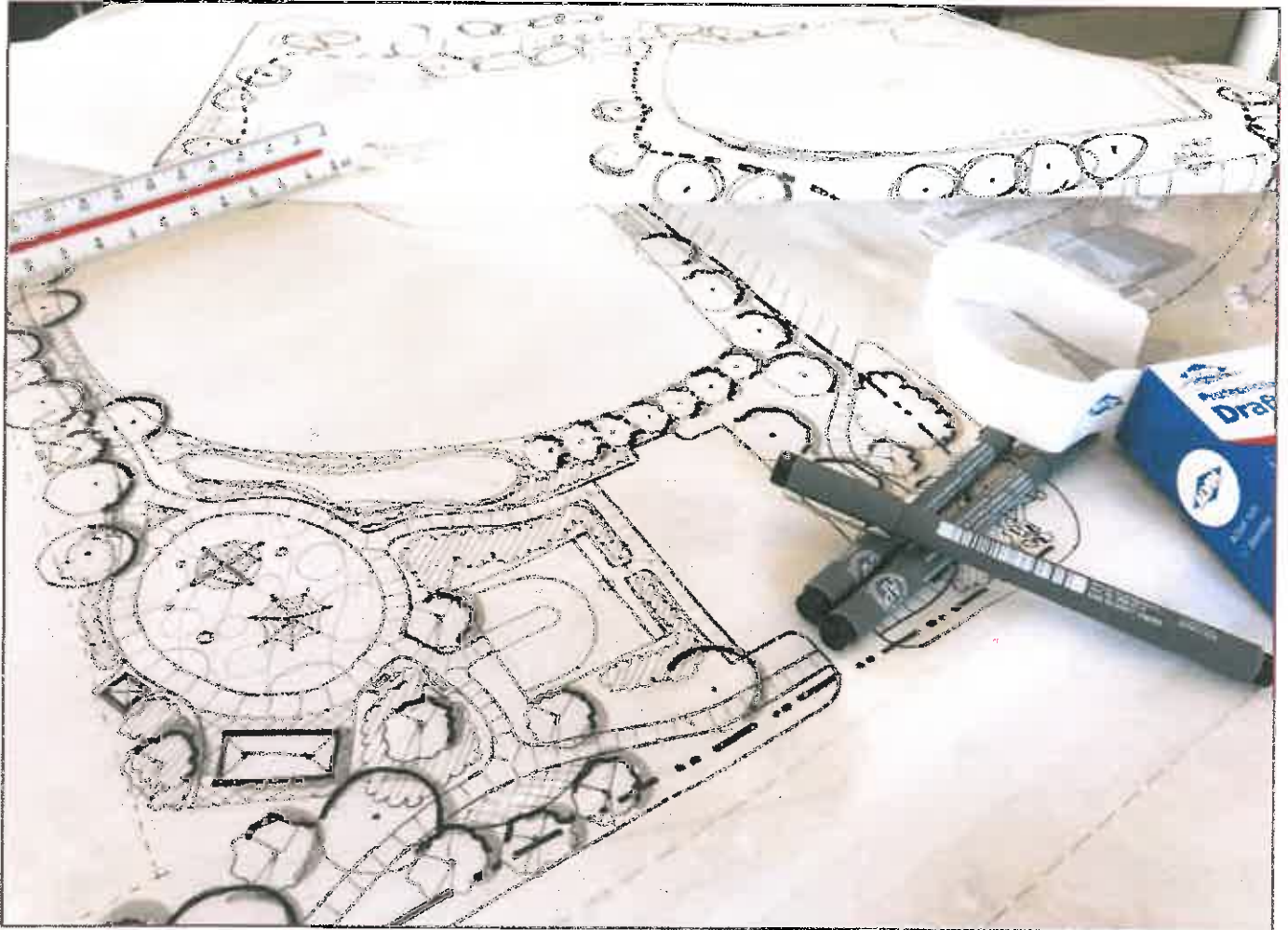
Once the Public Involvement Phase was completed, the project team summarized all written comments, the results from the green dot exercise, and any notes taken during conversations with stakeholders and public participants. The project team then developed a list of action items for revisions to the Temple Park Concept, and presented these to County staff. Once the staff reviewed these action items and gave their recommendations, the project team proceeded with the final park concept for Temple Park.

The final concept includes the following programmatic and design elements for Temple Park:

- Improved entry signage at the corner of McIver Street and S 8th Street.
- Large shelter and plaza area near the main parking lot.
- Stepped entry plaza to the park at the corner of McIver Street and S 7th Street.
- Stormwater management areas adjacent to parking lot and playground surface.
- Paved parking lot off of S 8th Street with approximately 18 spaces, including accessible parking.
- Paved on-street parking along Maple Avenue with accessible parking spaces.
- ADA accessible walkways to amenities throughout the site, with sidewalks along perimeter of the park.
- Large restroom / concession / maintenance building with plaza adjacent to parking lot.
- Open play / multipurpose field areas in place of baseball fields.
- Small picnic shelter near playground and open field area.
- Large group picnic pavilion and plaza adjacent to playground.
- New playground with inclusive surfacing.
- Full size basketball court.
- Improved drainage at the southwest corner of park.
- Landscape improvements and enhancements throughout the park.

The final concept for Temple Park is can be found on the following spread, along with the top ten precedent images selected during the green dot exercise.

FINAL CONCEPT



DRAFT

ILLUSTRATIVE CONCEPT & PRECEDENT IMAGES

The fold-out map on the next page shows the illustrative final concept for Temple Park, with the location of the primary features and amenities. Below are the top ten precedent images selected by participants in the green dot exercise.

PLAYGROUND



RESTROOM / CONCESSIONS



BASKETBALL



PICNIC SHELTERS



PARK MONUMENT



MULTIPURPOSE FIELDS



WALKING PATHS



PARKING IMPROVEMENTS



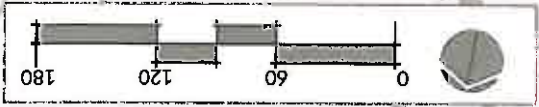
STREETSCAPE & CROSSWALK IMPROVEMENTS



BASEBALL / SOFTBALL



DRAFT



- KEY**
- 1 ENTRY SIGNAGE
 - 2 GROUP PAVILION & PLAZA
 - 3 ENTRY PLAZA
 - 4 STORMWATER MANAGEMENT AREA
 - 5 PARKING
 - 6 RESTROOM / MAINTENANCE BUILDING
 - 7 OPEN PLAY AREA
 - 8 PLAYGROUND
 - 9 BASKETBALL COURT
 - 10 IMPROVED DRAINAGE



FINAL CONCEPT

DRAFT

THIS PAGE INTENTIONALLY LEFT BLANK

ARCHITECTURAL ELEMENTS

RESTROOM / CONCESSIONS / MAINTENANCE BUILDING

Proposed architectural elements that are incorporated into the Temple Park Master Plan include replacement of the restroom and concession building, with a larger building that includes maintenance storage area. This building should be approximately 2,000 square feet with two separate restrooms, a concession room with window, and a storage room large enough to house field maintenance equipment.

An example the proposed building and associated amenities can be found below:

Existing Restroom / Concession Building



Example of Restroom / Concession / Maintenance Building



ESTIMATE OF PROBABLE COST

TEMPLE PARK COST ESTIMATES

LEE COUNTY PARKS MASTER PLAN COST ESTIMATES <small>(Based on Order of Magnitude Estimate of Probable Capital Improvement Costs July 2018)</small>					TEMPLE PARK	
		Unit	Quantity	Unit Cost	Subtotal	Description
Temple Park - 4.58 acres						
A. Site Prep & Demo						
1	Mobilization and General Conditions	lump sum	1	\$35,000.00	\$35,000	
2	Survey and Layout	lump sum	1	\$20,000.00	\$20,000	
3	Demolition	allowance	1	\$35,000.00	\$35,000	restroom, maintenance building, backstop and fences
4	Site Clearing	acre	4.0	\$5,000.00	\$20,000	clear and grub - approximately 90% site
5	Site Grading including On-Site Balancing	acre	4.0	\$8,000.00	\$32,000	
6	Erosion Control / Wattle	ln ft	1,200	\$5.00	\$6,000	silt fence, control wattle
7	Construction Entrance	each	2	\$3,000.00	\$6,000	
Subtotal:					\$154,000	
B. Utilities						
1	Sanitary Service Supply	allowance	1	\$20,000.00	\$20,000	new service 4", manholes, pipes, testing, cut/patch street
2	Water Service Supply	allowance	1	\$15,000.00	\$15,000	new service 1"-2", valves, pipes, testing, taps, 2" rbbp
3	Electrical Service Supply	allowance	1	\$20,000.00	\$20,000	transformers, conduits, meters, upgrades & relocations
4	Stormwater System	allowance	1	\$35,000.00	\$35,000	inlets, piping, outfalls, culverts, swales
5	Repair 48" RCP	lump sum	1	\$105,000.00	\$105,000	450 ln ft 48" RCP, upgrade outfall at 7th St
6	Lighting- Pedestrian	each	20	\$6,500.00	\$130,000	12' lamp height, decorative poles, foundation, conduit
7	Lighting - Parking	each	4	\$12,500.00	\$50,000	14-16' lamp height, decorative poles, foundation, conduit
Subtotal:					\$375,000	
C. Buildings and Structures						
1	Restroom / Maintenance Building	allowance	1	\$120,000.00	\$120,000	1,800 sf, maintenance/storage, restrooms
2	Picnic Shelter - Group	each	3	\$30,000.00	\$90,000	12' x 24' prefabricated
Subtotal:					\$210,000	
D. Park Elements						
1	Playground	allowance	1	\$150,000.00	\$150,000	new equipment, resilient surfacing
2	Basketball Court	allowance	1	\$30,000.00	\$30,000	full court, color surface, striping
4	Wayfinding and Signage	allowance	1	\$15,000.00	\$15,000	regulatory & informational
5	Site Furnishings	allowance	1	\$30,000.00	\$30,000	tables, benches, trash receptacles, drinking fountains
6	Public Art	allowance	1	\$25,000.00	\$25,000	Spinners monument, commission, installation
Subtotal:					\$250,000	
E. Hardscape						
1	Sidewalks	sq ft	14,000	\$4.50	\$63,000	6' wide concrete
2	Parking / Vehicle Paving	sq yd	1,000	\$25.00	\$25,000	asphalt parking
3	Specialty Plazas & Walks	sq ft	5,500	\$18.00	\$99,000	concrete pavers
Subtotal:					\$187,000	
F. Landscape						
1	General Landscape Improvements	allowance	1	\$75,000.00	\$75,000	trees, shrubs and ornamental plantings
Subtotal:					\$75,000	
Temple Park Subtotal					\$1,251,000	
Construction Fees and Contingency						
	Contingency (20%)				\$250,200	
	Design, Permitting & Inspection (18%)				\$270,216	
Construction Fees and Contingency Subtotal:					\$520,416	
TOTAL:					\$1,771,416	

DRAFT

PHASING & IMPLEMENTATION STRATEGY

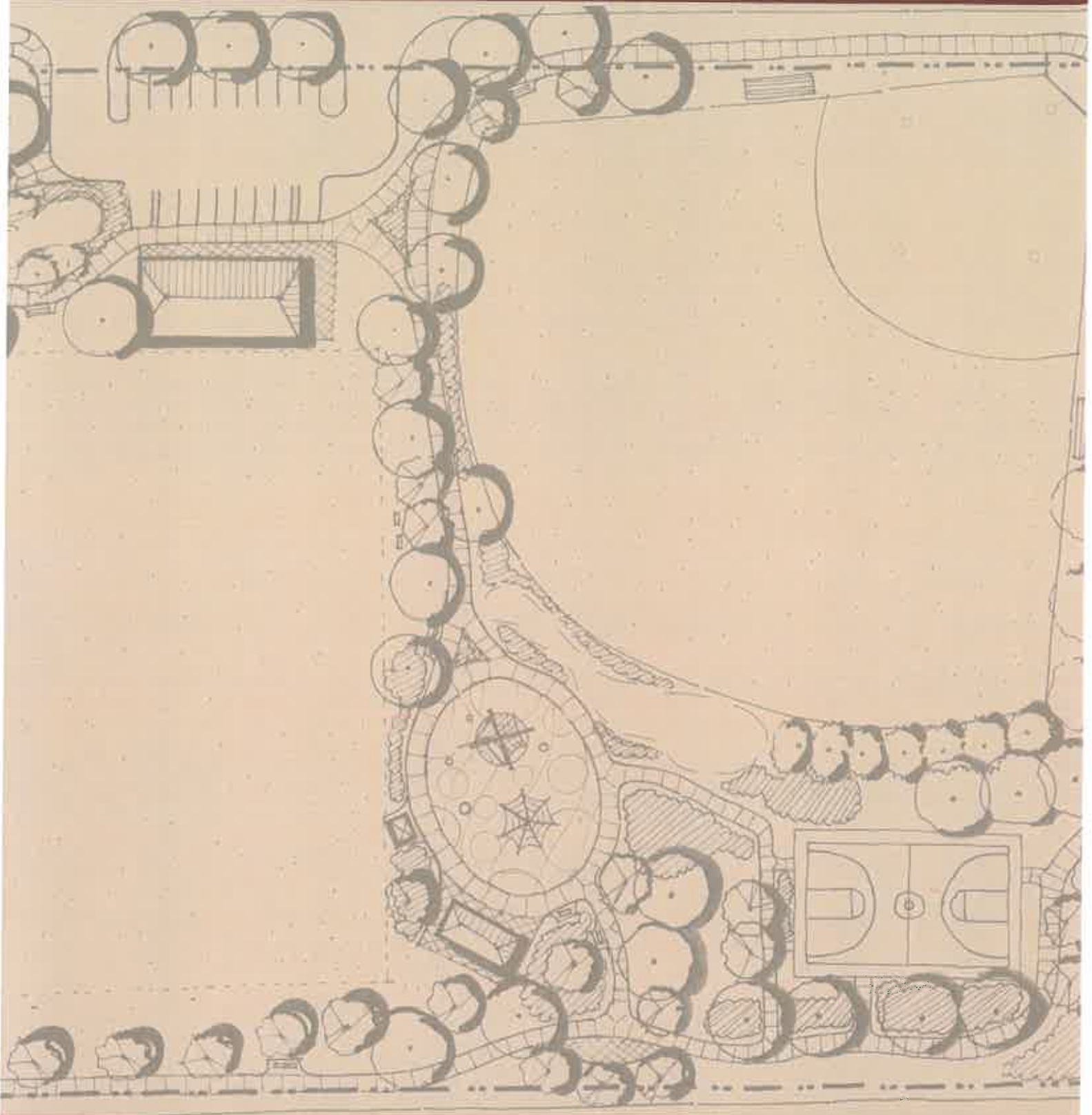
IMPLEMENTATION WORKSHOP

TO BE COMPLETED

PHASING & IMPLEMENTATION STRATEGY

PHASING RECOMMENDATIONS

TO BE COMPLETED



LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

ITEM #:
VI. A.

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Discussion regarding the role of the ADA Committee.

DEPARTMENT: Governing Body

CONTACT PERSON: Jennifer Gamble, Clerk to the Board

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Discussion regarding a request to modify the role of the ADA Committee.
BUDGET IMPACT	N/A
ATTACHMENTS	Draft proposed "Resolution Modifying Role of Americans with Disabilities Act Committee", Copy of "Resolution to Establish an ADA Compliance Committee", "Complaint Procedures to Resolve Grievances Under ADA"
PRIOR BOARD ACTION	None
RECOMMENDATION	Pleasure of the Board.
SUMMARY	

The Americans with Disabilities Act (ADA) Compliance Committee currently serves to resolve grievances filed by citizens related to public facilities, services, activities, and functions. To date, members serving on the ADA Committee have not had any grievances submitted. A member of the ADA Committee has expressed an interest in modifying the Board's role to become active in making recommendations regarding special projects, facilities, and services provided by Lee County Government. Members of the Committee have been contacted regarding the request and are in favor of the proposed change. Members of the ADA Committee include Jonathan Hilliard, William Bates, Emilia Guerrero, Charles Hannah, and the Commissioner contact person is Chair Amy Dalrymple.

LEE COUNTY

NORTH CAROLINA

Committed Today for a Better Tomorrow

RESOLUTION MODIFYING ROLE OF AMERICANS WITH DISABILITIES ACT COMMITTEE

BE IT RESOLVED by the Board of Commissioners for the County of Lee that the following amendment shall be made to Section III of the "Resolution to Establish an ADA Compliance Committee" that was adopted on July 1, 1992:

SECTION III: The ADA Compliance Committee shall conduct hearings at the request of disabled persons who feel Lee County has discriminated against him or her in providing access to and participation in public facilities, services, activities, and function. In addition, the ADA Compliance Committee shall also serve in an advisory capacity to the Lee County Board of Commissioners by reviewing and providing recommendations for ADA compliance measures as they relate to special projects, services, and facilities conducted by or under the ownership of Lee County Government.

Adopted this 20th day of August 2018.

ATTEST:

Amy Dalrymple, Chair
Lee County Board of Commissioners

Jennifer Gamble, Clerk to the Board

Americans With Disabilities Act

RESOLUTION TO ESTABLISH AN
ADA COMPLIANCE COMMITTEE

BE IT RESOLVED BY THE BOARD OF COMMISSIONS AS FOLLOWS:

Section I. There is hereby created an ADA Compliance Committee to consist of five members. Membership of this committee shall consist of one elected official, one private citizen from the disabled community, one private citizen from business or non-profit sector, one private citizen from the field of education, and one private citizen from the health care/medical profession. Three of the initial appointees shall hold office until June 30, 1993, and two initial appointees shall hold office until June 30, 1994. Thereafter, all appointments shall be for two years, or until their successors are appointed and qualified.

Section II. The ADA Compliance Committee shall convene after its appointment and select a chairman. Thereafter, at its first meeting following January 1st of each year it shall select a member to serve as chairman. The chairman shall preside at all meetings and shall be responsible for calling all meetings of the committee. Meetings shall be held from time to time as necessary and three members of the committee shall constitute a quorum. Members of the committee shall serve without compensation. The County shall provide clerical support to the committee to perform such duties as the committee shall direct.

Section III. The ADA Compliance Committee shall conduct hearings at the request of disabled persons who feel Lee County has discriminated against him or her in providing access to and participation in public facilities, services, activities, and functions.

Section IV. The three initial appointees who shall hold office until June 30, 1993, are Commissioner Ed Paschal, Bob Hales, and Rusty Hodges.

Section V. The two initial appointees who shall hold office until June 30, 1994, are Mrs. Linda Marsal and Norman "Butch" Saunders.

Section VI. This resolution shall be effective from and after its adoption.

Committee is to be made up of 5 members, including an elected official

Effective 7/1/92

COMPLAINT PROCEDURES TO RESOLVE
GRIEVANCES UNDER ADA

The procedure for processing complaints by individuals who believe that he or she has been discriminated against on the basis of disability by Lee County is as follows:

A. The complainant should submit his or her complaint in writing to the Ada Coordinator within 30 days of the date of occurrence of the incident which gave rise to the complaint. A record of the complaint and the action taken will be maintained in the office of the ADA Coordinator. A written decision by the ADA Coordinator will be rendered within 15 working days of the filing of the complaint. A copy of the decision shall be mailed by the ADA Coordinator to the complainant at his or her address as setforth in the complaint by registered or certified mail, return receipt requested.

If the complainant is not satisfied with the decision of the ADA Coordinator, he or she may file in the office of the ADA Coordinator a written statement to that effect and request a hearing before the ADA Compliance Committee provided he or she does so within 10 days of the receipt of the ADA Coordinator's decision.

B. If the complainant perfects his or her appeal in the manner setforth above, then the ADA Coordinator shall within 3 working days transmit copies of all documents pertaining to the matter to the ADA Compliance Committee. The chairman of the committee will set a hearing date and give the complainant and the County Manager 10 days notice of said hearing. The County Manager will be responsible to notify any county agency or personnel involved in the matter of the date of the hearing. The hearing shall be in public and all proceedings shall be recorded. The committee will issue a written decision within 20 days of the conclusion of the hearing. The decision shall be mailed to the complainant at the address setforth in the complaint by registered or certified mail, return receipt requested.

If the complainant is not satisfied with the decision of the ADA Compliance Committee, he or she may file in the office of the County Manager a written statement to that effect and request a hearing before the Board of Commissioners provided he or she does so within 10 days of the receipt of the decision of the ADA Compliance Committee.

C. If the complainant perfects his or her appeal in the manner setforth above, then the ADA Compliance Committee shall within 3 working days transmit copies of all documents and recordings pertaining to this matter to the County Manager for the use and benefit of the Board of Commissioners. The Chairman of the Board shall set a hearing date and shall give to the complainant and to the County Manager 10 days notice of the hearing. The County Manager will be responsible to notify any county agencies or personnel involved in the matter of the date of the hearing. The hearing will be conducted in public and all proceedings

shall be recorded. A written determination must be made within 30 days of the conclusion of the hearing. The decision of the Board of Commissioners is final.

D. The complainant may be, but it is not required to be represented by counsel. Likewise, any person whose alleged conduct is the cause of the complaint may be, but it is not required to be represented by counsel.

E. The County Attorney shall serve as legal adviser to the ADA Coordinator, the ADA Compliance Committee and the Board of Commissioners.

F. The burden of proof shall be upon the complainant at each state of the proceedings and the complainant shall present his or her evidence first. The person or agency whose alleged conduct or action is the cause of the complaint shall then present their evidence in defense after which each party may present evidence in rebuttal. The tribunal hearing the matter, the complainant and any person whose alleged conduct is the cause of the complaint shall have the right to call and cross examine witnesses and offer other evidence.

G. The use of this grievance procedure is not a prerequisite to the pursuit of other remedies. The filing of a complaint with any appropriate agency or the pursuit of other remedies shall not impair an individuals right to a prompt and equitable resolution of his or her complaint under this grievance procedure. Furthermore, the filing of a lawsuit in state or federal court can occur at any time.

ITEM #:
VI. B.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Consideration of reappointment of Walter Ferguson to the Sandhills Mental Health Board

DEPARTMENT: Governing Body

CONTACT PERSON: Jennifer Gamble, Clerk to the Board

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Consider the reappointment of Walter Ferguson to the Sandhills Mental Health Board.
BUDGET IMPACT	N/A
ATTACHMENTS	Application from Walter Ferguson provided under a separate cover.
PRIOR BOARD ACTION	None
RECOMMENDATION	Pleasure of the Board.
SUMMARY	

Walter Ferguson qualifies for the insurance representative position on the Sandhills Mental Health Board that is required pursuant to North Carolina General Statute § 122C-118.1(b)(8).

ITEM #:
VI. C.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Consideration of reappointment of Cy Richardson to the Lee County Fire Advisory Board

DEPARTMENT: Governing Body

CONTACT PERSON: Jennifer Gamble, Clerk to the Board

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Consider the reappointment of Cy Richardson to the Lee County Fire Advisory Board.
BUDGET IMPACT	N/A
ATTACHMENTS	Application from Cy Richardson provided under a separate cover.
PRIOR BOARD ACTION	None
RECOMMENDATION	Pleasure of the Board.
SUMMARY	

Cy Richardson has served on the Fire Advisory Board as a representative of the Fire Chiefs' Association.

ITEM #:
VI. D.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: Consideration of appointment of Emilia Guerrero as an alternate on the Parks and Recreation Commission.

DEPARTMENT: Governing Body

CONTACT PERSON: Jennifer Gamble, Clerk to the Board

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	Consider the appointment of Emilia Guerrero as an alternate on the Parks and Recreation Commission.
BUDGET IMPACT	N/A
ATTACHMENTS	Application from Emilia Guerrero provided under a separate cover.
PRIOR BOARD ACTION	None
RECOMMENDATION	Pleasure of the Board.
SUMMARY	

Emilia Guerrero satisfies the requirements to serve on the Parks and Recreation Commission. She currently serves on the Americans with Disabilities Act Committee.



ITEM #:
VII. A.

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: July 2018 Financial Report

DEPARTMENT: Finance

CONTACT PERSON: Lisa G. Minter, Assistant County Manager/Finance Director

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	N/A - Information only
BUDGET IMPACT	N/A
ATTACHMENTS	Monthly Financial Report for the Month Ended July 31, 2018 Monthly Sales Tax Analysis Lee County Historical Sales Tax Analysis County-wide Historical Sales Tax Analysis
PRIOR BOARD ACTION	N/A
SUMMARY	

Attached is the monthly financial report for July 2018. Please remember that sales tax revenues run three months behind. Please note that an additional column has been added to the report for the current fiscal year. The column added is called encumbrances and represents orders for goods or services that have been placed and not received as of the end of the month. Outstanding contracts are also included in the encumbrance figure. NC Administrative Code is requiring that a report be presented to the Board of Commissioners at least quarterly that reports revenues, expenditures and encumbrances. Since you are already provided a monthly report, the encumbrance column has been added to this report. The encumbrance column is also being included in the calculation of the % used column.

In reviewing expenditures, the percentage used target is 8.33%. Many of our departments are above the target due to the payment of HSA deposits, annual premiums on workers' compensation insurance and property and liability insurance, annual dues and annual maintenance agreements in the month of July and the inclusion of the encumbrance column. Departments showing 25% used are quarterly appropriations.

The sales tax collections through May 2018 are attached. Collections for May were the second largest for the year.

Lee County
Monthly Financial Report
For the Month Ended July 31, 2018

	For the year ending June 30, 2018			For the year ending June 30, 2019			% Used
	17-18 Budget	YTD Thru 7/31/17	July 2017	18-19 Budget	YTD Thru 7/31/18	July 2018	
Economic/Physical Development							
Airport	-	2,763.92	2,763.92	200,000	-	-	N/A
Planning	396,324	99,081.00	99,081.00	461,694	102,423.50	102,423.50	22.18%
Economic Development	496,548	127,740.72	127,740.72	1,007,085	78,979.98	78,979.98	7.84%
Cooperative Extension	284,893	8,013.94	8,013.94	252,271	8,020.77	8,020.77	3.62%
Conservation	118,486	12,374.63	12,374.63	163,939	12,896.73	12,896.73	7.87%
Total	1,296,251	249,974.21	249,974.21	2,084,989	202,320.98	202,320.98	9.76%
Health and Welfare							
Health Department	3,333,216	261,124.85	261,124.85	3,471,254	290,785.24	290,785.24	16.01%
Mental Health	240,000	20,000.00	20,000.00	240,000	20,000.00	20,000.00	8.33%
Social Services-Admin	7,048,594	568,444.26	568,444.26	7,236,544	573,154.44	573,154.44	9.43%
Social Services-Programs	1,245,039	44,736.04	44,736.04	1,217,018	39,637.23	39,637.23	7.35%
Human Services Nonprofits	34,000	2,500.01	2,500.01	43,500	1,833.34	1,833.34	4.21%
Senior Services - Transportation	907,936	93,356.84	93,356.84	1,053,343	100,044.23	100,044.23	16.44%
Senior Services - General	999,405	77,163.37	77,163.37	1,024,587	78,548.05	78,548.05	17.50%
JCPC	161,771	75.00	75.00	161,771	-	-	0.00%
Emergency and Contingency	65,000	-	-	45,000	-	-	0.00%
Total	14,034,961	1,067,400.37	1,067,400.37	14,493,017	1,104,002.53	1,104,002.53	11.74%
Education							
School Current Expense	17,512,278	1,459,356.50	1,459,356.50	17,862,278	1,488,523.17	1,488,523.17	8.33%
School Capital Outlay	2,032,506	112,292.17	112,292.17	2,032,506	112,292.17	112,292.17	5.52%
CCCC Current Expense & Civic Ctr.	2,841,860	236,821.66	236,821.66	2,952,655	246,054.58	246,054.58	8.33%
CCCC Special Appropriation	115,000	-	-	125,000	-	-	0.00%
CCCC Capital Outlay	290,000	24,166.67	24,166.67	45,000	3,750.00	3,750.00	8.33%
Total	22,791,644	1,832,637.00	1,832,637.00	23,017,439	1,850,619.92	1,850,619.92	8.04%
Cultural and Recreational							
Libraries	701,176	42,756.06	42,756.06	709,689	50,822.89	50,822.89	11.00%
Parks and Recreation	1,672,239	123,877.87	123,877.87	1,536,793	119,333.31	119,333.31	16.34%
Nonprofits	7,000	583.34	583.34	7,000	583.34	583.34	8.33%
Total	2,380,415	167,217.27	167,217.27	2,253,482	170,739.54	170,739.54	14.63%
Debt Service							
	9,373,949	26,841.95	26,841.95	11,347,171	-	-	0.00%
Total Expenditures	70,120,479	5,139,296.38	5,139,296.38	74,452,491	5,317,025.58	5,317,025.58	10.87%
Revenues Over (Under) Expenditures	(1,495,147)	(3,366,573.47)	(3,366,573.47)	(3,298,205)	(3,189,544.79)	(3,189,544.79)	N/A

Lee County
 Monthly Financial Report
 For the Month Ended July 31, 2018

	For the year ending June 30, 2018			For the year ending June 30, 2019					
	17-18 Budget	YTD Thru 7/31/17	July 2017	% Used	18-19 Budget	YTD Thru 7/31/18	July 2018	Encumbrances	% Used
Other Financing Sources (Uses):									
Transfers From Other Funds	667,899	-	-	0.00%	2,067,120	-	-	-	0.00%
Transfers to Other Funds	(1,076,829)	-	-	0.00%	(712,000)	-	-	-	0.00%
Total Other Financing Sources (Uses)	(408,930)	-	-	0.00%	1,355,120	-	-	-	0.00%
Revenues and Other Financing Sources									
Over (Under) Expenditures and Other Financing (Uses)	(1,904,077)	(3,366,573.47)	(3,366,573.47)	N/A	(1,943,085)	(3,189,544.79)	(3,189,544.79)	N/A	N/A
Appropriated Fund Balance	1,904,077	-	-	0.00%	1,943,085	-	-	-	0.00%
Revenues, Other Financing Sources and Appropriated Fund Balance Over (Under) Expenditures and Other Financing Uses	-	(3,366,573.47)	(3,366,573.47)	N/A	-	(3,189,544.79)	(3,189,544.79)	N/A	N/A

LEE COUNTY AGENDA ABSTRACT BOARD OF COMMISSIONERS MEETING

ITEM #:
VII. B.

(Use the Down or Up Arrows to move between fields of the Form)

MEETING DATE: August 20, 2018

SUBJECT: County Manager's Monthly Report for August 2018.

DEPARTMENT: Administration

CONTACT PERSON: John Crumpton, County Manager

TYPE: Consent Agenda Action Item Public Hearing Information

REQUEST	County Manager's Monthly Report for the month of July 2018
BUDGET IMPACT	N/A
ATTACHMENTS	<ol style="list-style-type: none"> 1) Monthly Report for July 2018 2) Increasing Value Added Agriculture Report 3) Multi-Sport Complex Information 4) Air Quality Monitoring Correspondence 5) Monthly Tax Collections Report for July 2018 6) TRC Report for July 2018 7) Building Inspections/Permits Report for July 2018
PRIOR BOARD ACTION	N/A
SUMMARY	

The County Manager has provided his monthly report for the month of August 2018.

County Manager's Report – August 20, 2018

Ongoing Projects

Terminal Building – RaleighExec – The new terminal building is now under construction. The old building has been demolished and operations are being conducted in a temporary facility. The new building is a two-story facility with 14,000 square feet. The official ground breaking ceremony will be on Thursday September 27, 2018 at 8:00 am.

Agricultural Business Cluster – Four Counties – Johnston, Harnett, Chatham and Lee have been in discussions on creating an Agricultural Business Cluster for our four counties. A study was completed documenting the agricultural assets in the four counties. All four counties had representation from economic development agencies in their county and their cooperative extension offices. Attached is the report that was developed and paid for by Harnett County. In addition, a proposal from TJCOG is attached that would allow the group to move together in marketing the cluster and attracting agricultural processors to our counties. These items are for information only at this time. In September, a presentation will be made to the Board of Commissioners on the project.

Courthouse Renovations – Moseley Architects continues to work on the preliminary plan. We will present the draft plans to the Commissioners at the September regular meeting. Once the BOC gives us preliminary approval, we will hold meetings with the departments and agencies to review the plan.

Other Items

Land Use Plan – City planning staff continues to work on the plan and seek additional input from the public. We anticipate the Joint Planning Board will meet and discuss the plan at their next meeting at the end of July. We hope that after their recommendation that the plan will be before the Commissioners in August or September.

Multi-Sports Complex – With recent discussion on soccer fields, I wanted to make sure that the Board of Commissioners had copies of the reports that were developed on the Multi-Sports Complex. Attached are several reports that were produced and discussed by the group that reviewed the plans.

Air Monitoring – Attached please see emails and reports from Patrick Butler, Division of Air Quality with the Department of Environmental Quality. DEQ has made the decision to move the air monitoring equipment from the Blackstone Site. They have established the baseline air quality for area that would be most impacted by oil and gas exploration in

Lee County. Since drilling has not started, the department needed the equipment in other areas and made the decision to relocate. We have an open line of communication with DEQ on the subject. If Oil and Gas exploration proceeds in Lee County, we will be in contact with them to discuss future monitoring.

County Facility Use for Political/Election Purposes – We have had several requests to use county facilities for political/election purposes in recent weeks. The main purpose of the requests are voter registration, town hall/information meetings, and fund raising.

Tobacco Warehouse Project – An update will be provided on where Downtown Sanford Inc. is in developing this project.

Reports

Tax Report – Attached please find the Tax Collection Summary Report for July.

Community Development/Activity Summary – The Technical Review Committee Agenda Memorandum for July is attached for review.

Building Inspections Report – Please find attached the July Building Inspections Report.

Upcoming Meetings/Events:

September 12 – SAGA Annual Meeting – Carolina Trace Country Club – 5:00 pm

September 17 – Regular Commissioners Meeting – Government Center - 6:00 pm

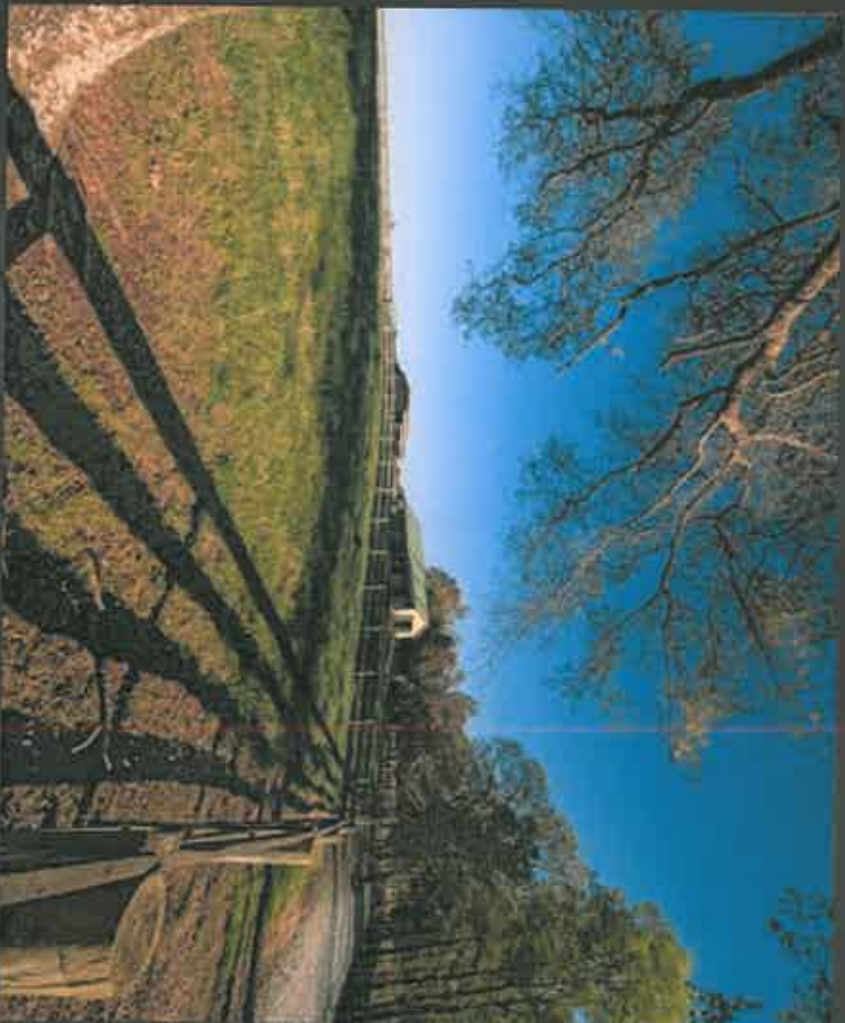
September 27 – Terminal Building Groundbreaking – Airport – 8:00 am

September 27 – TJCOG Economic Summit – Dennis Wicker Civic Center – 9:30 am

October 1 – Regular Commissioners Meeting – Government Center – 6:00 pm

October 15 – Regular Commissioners Meeting – Government Center – 6:00 pm

Increasing Value-Added Agriculture



Chatham, Harnett, Johnston & Lee Counties, NC

February 2018 | Economic Leadership LLC

Increasing Value-Added Agriculture



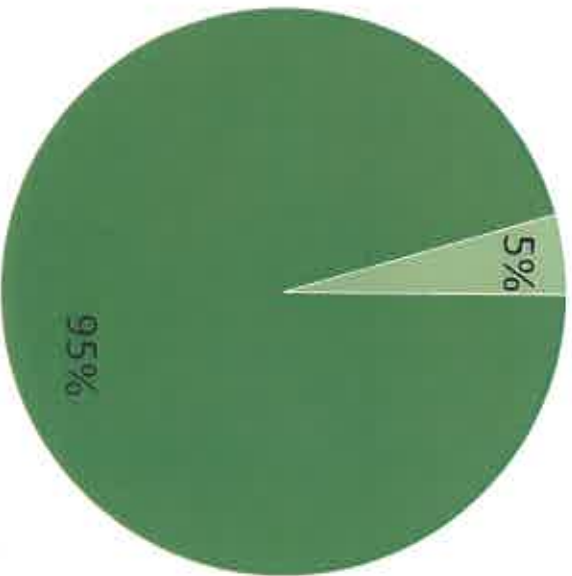
- Ag economic overview
- Agricultural asset map
- Assessment of current & future trends impacting ag
- Assessment agricultural special incentive policy
- Recommendations
- Multi-year action plan timelines and costs

Chatham, Harnett, Johnston & Lee Counties, NC

February 2018 | Economic Leadership LLC

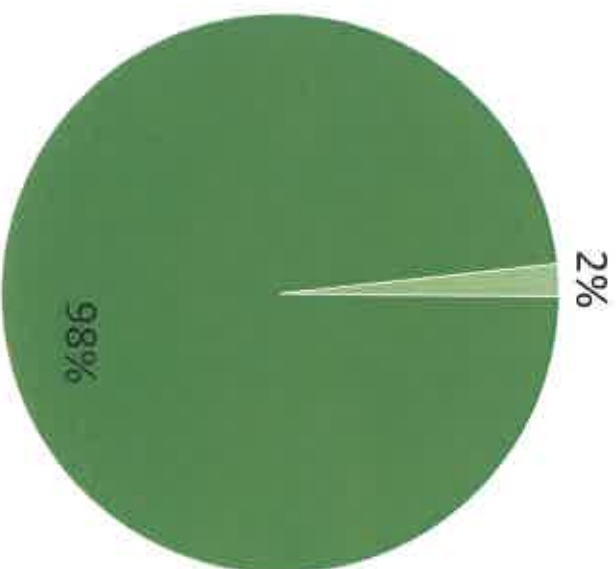
Agricultural Industry & Occupational Employment in 4-County Region

Industry Employment



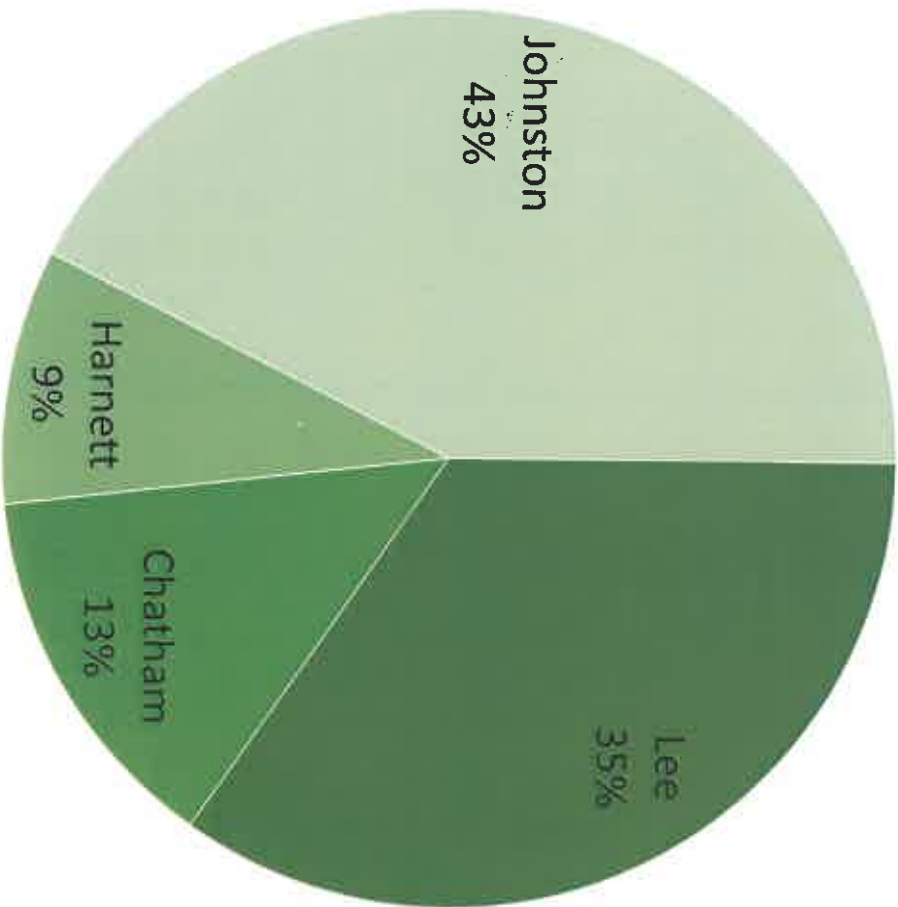
- Other Employment
- Agricultural Employment

Occupation Employment

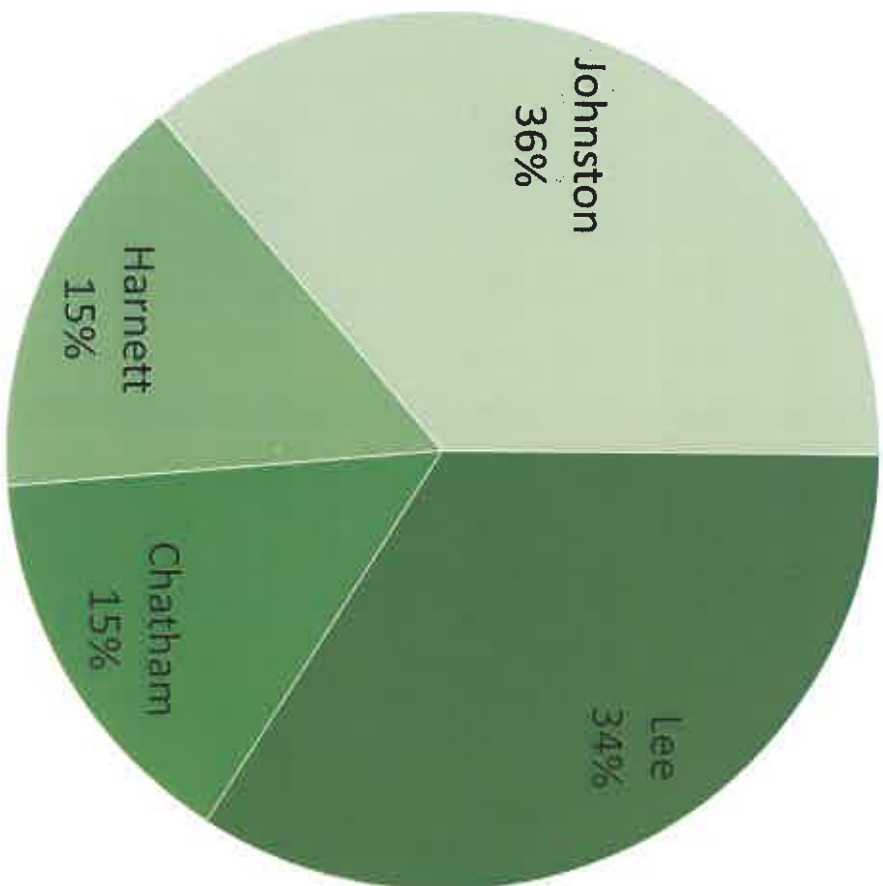


- Other Employment
- Agricultural Employment

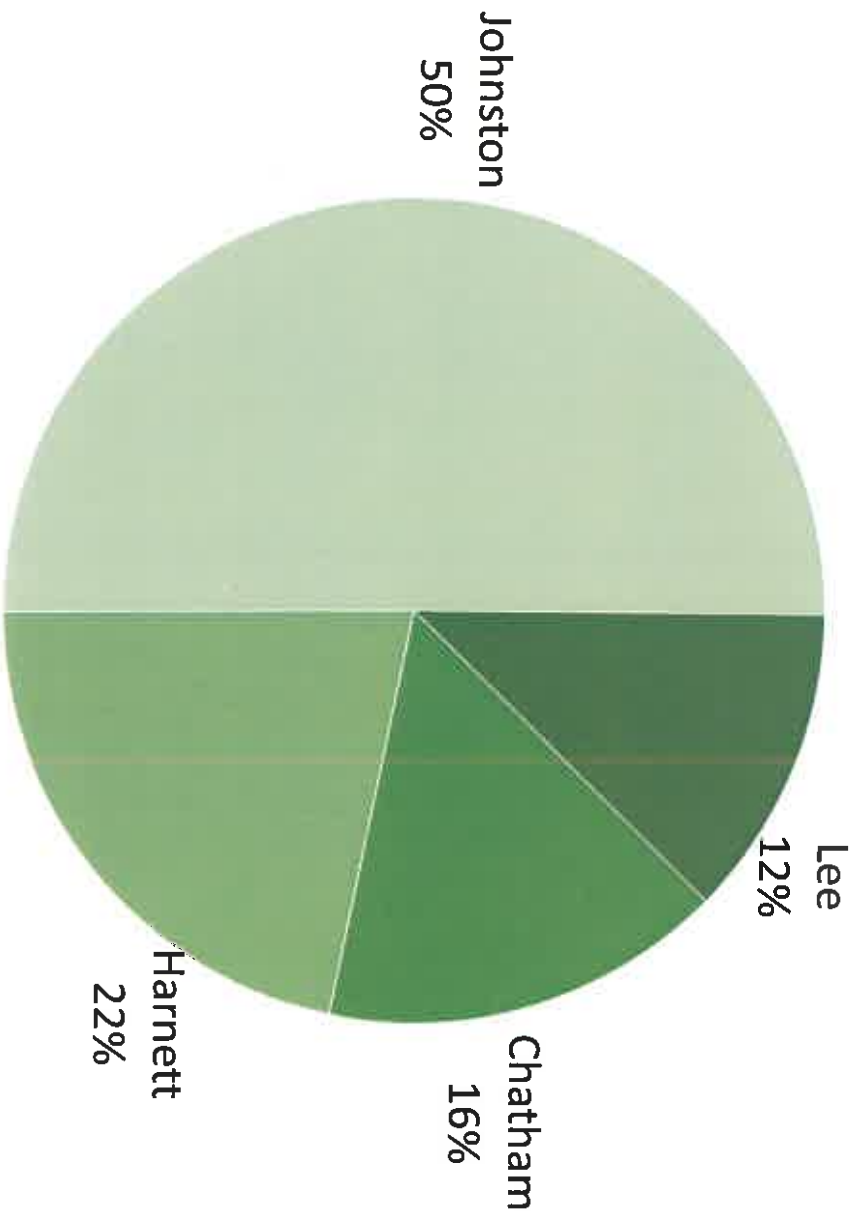
% of Total Region Agricultural Industry Employment in Each County



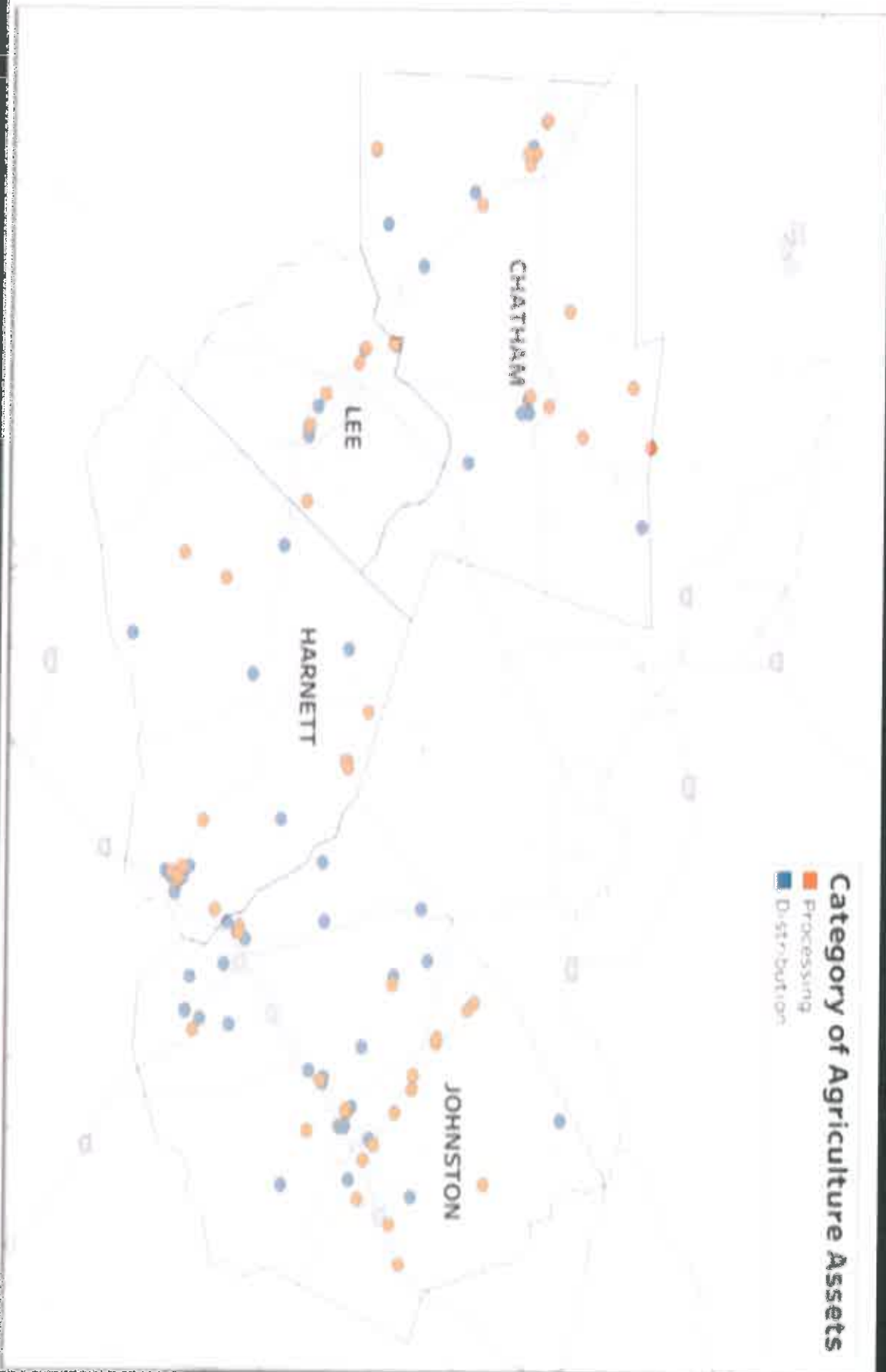
% of Total Region Agricultural Industry Occupations in Each County



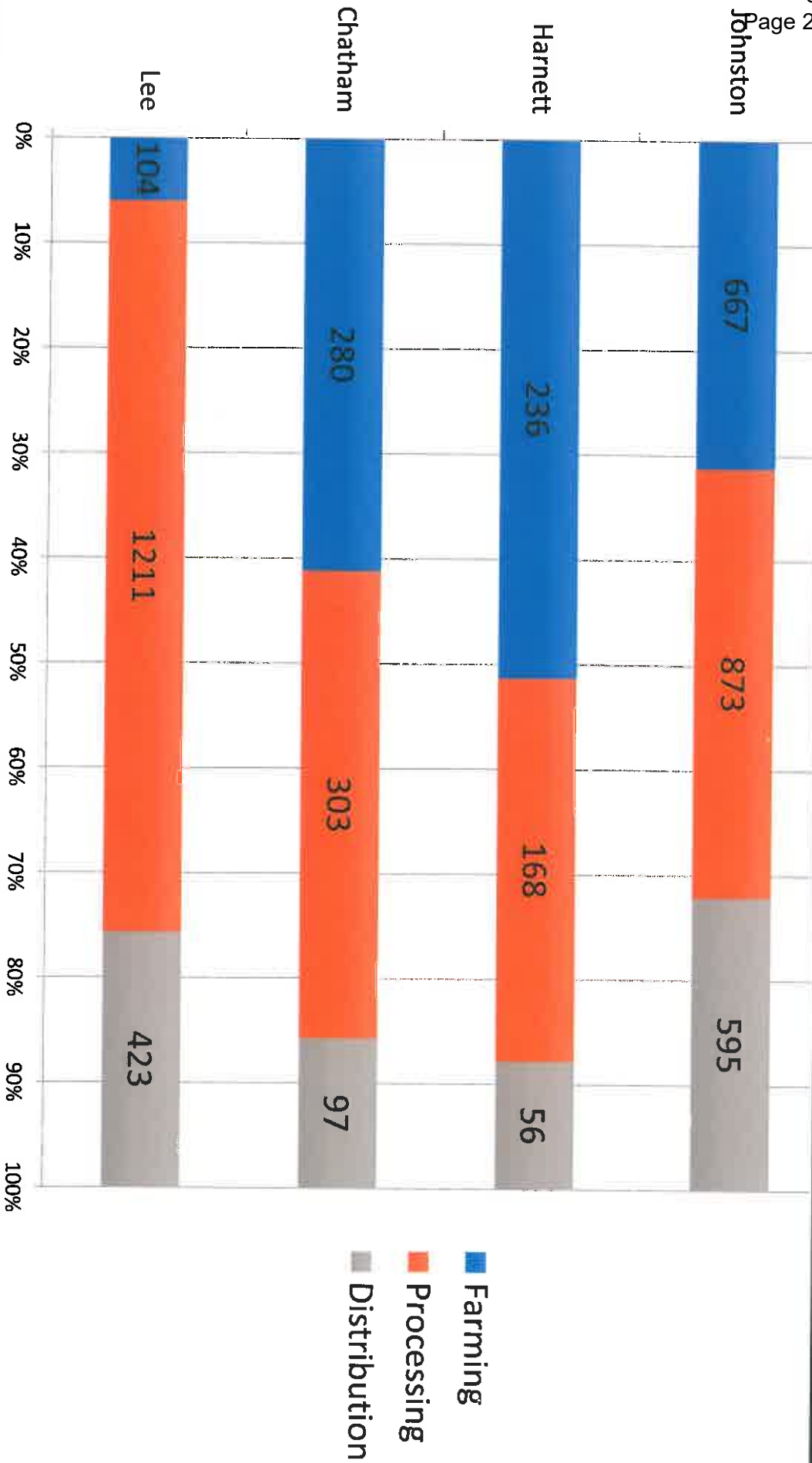
Total Agricultural Establishments as % of Regional Establishments in Each County



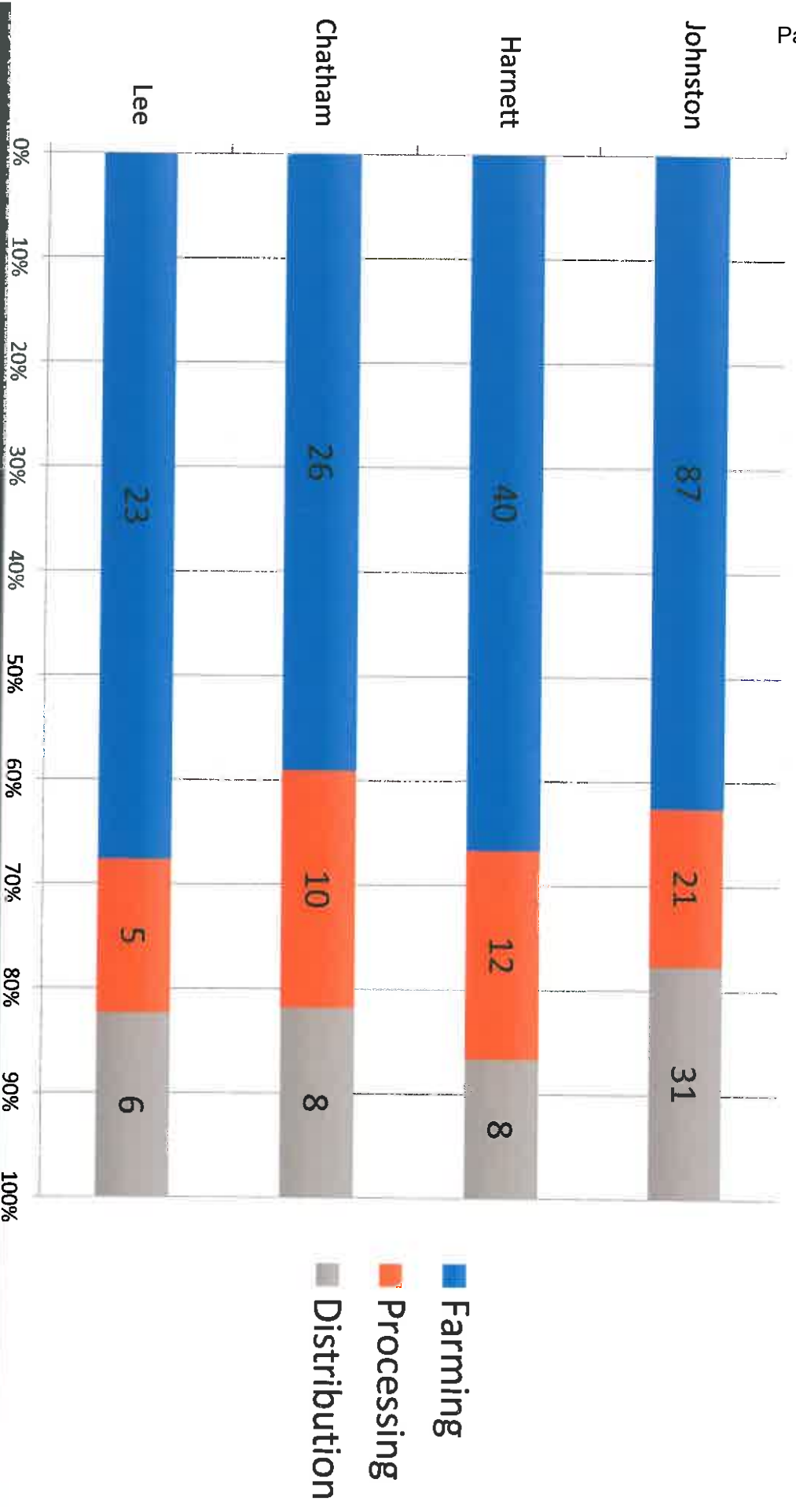
Agricultural Assets in the Region



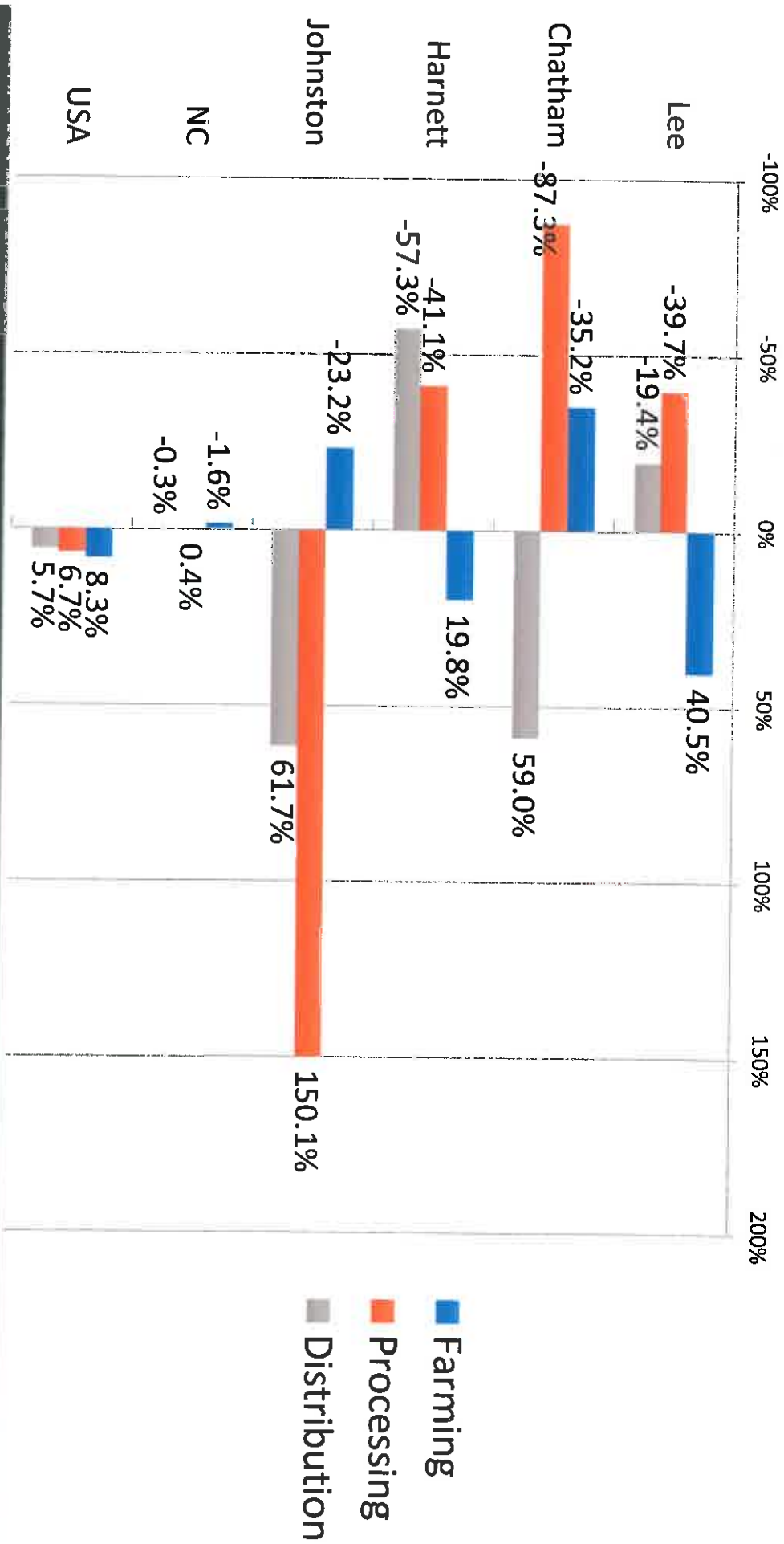
Ag Industry Employment Percentages



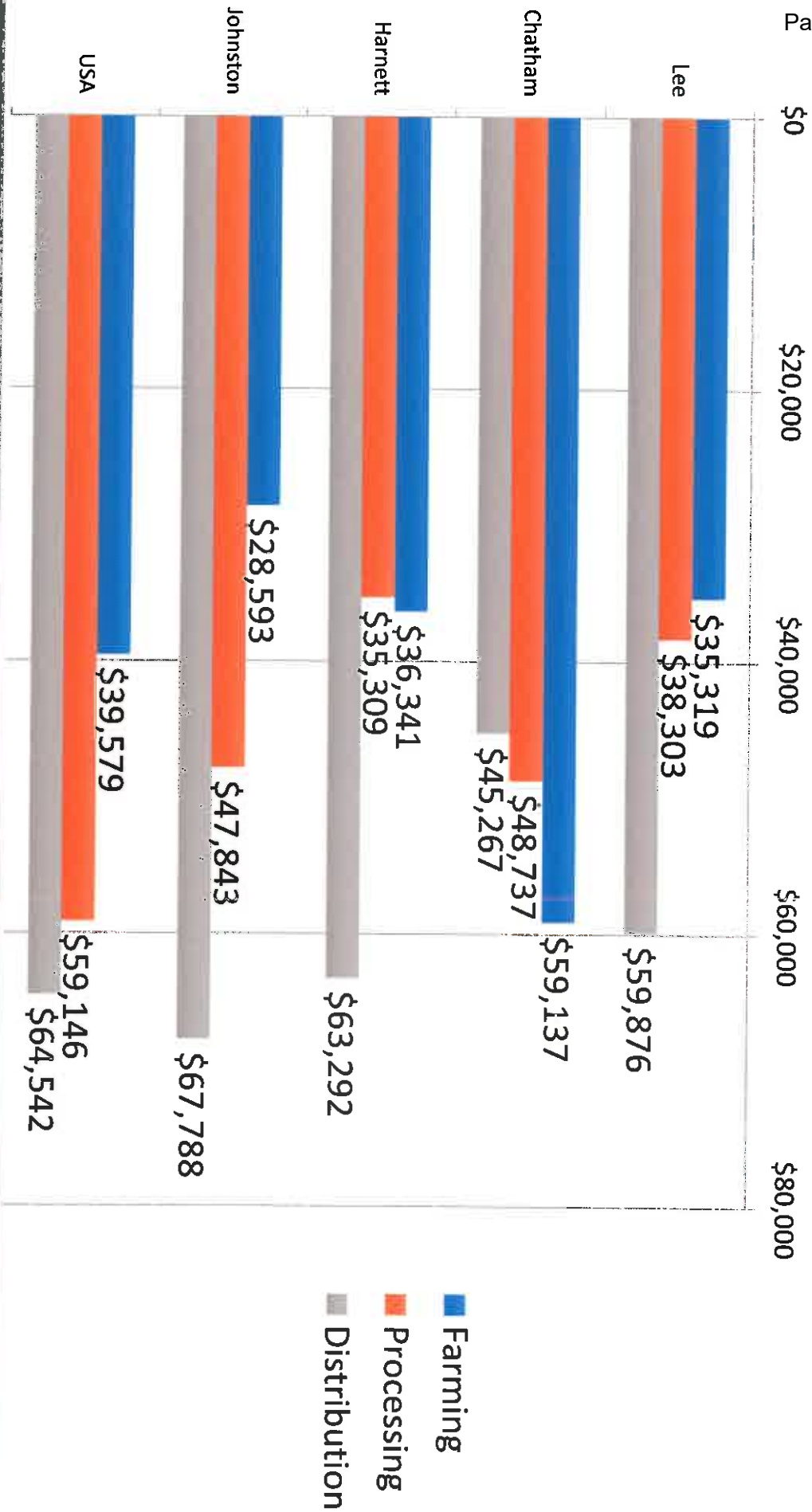
Ag Industry Establishment Percentages



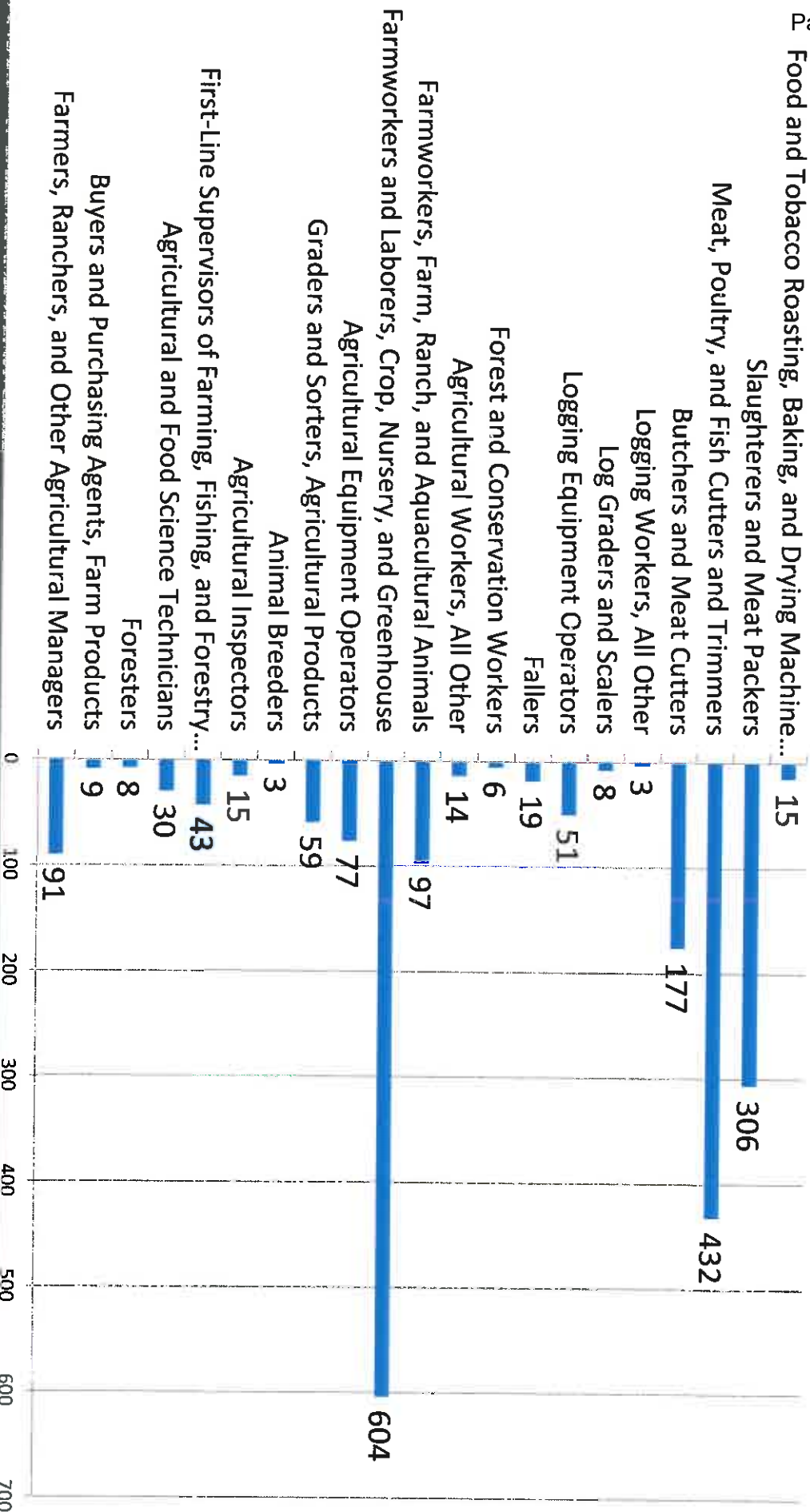
10-Year Employment Growth Ag Industry (2006-2016)



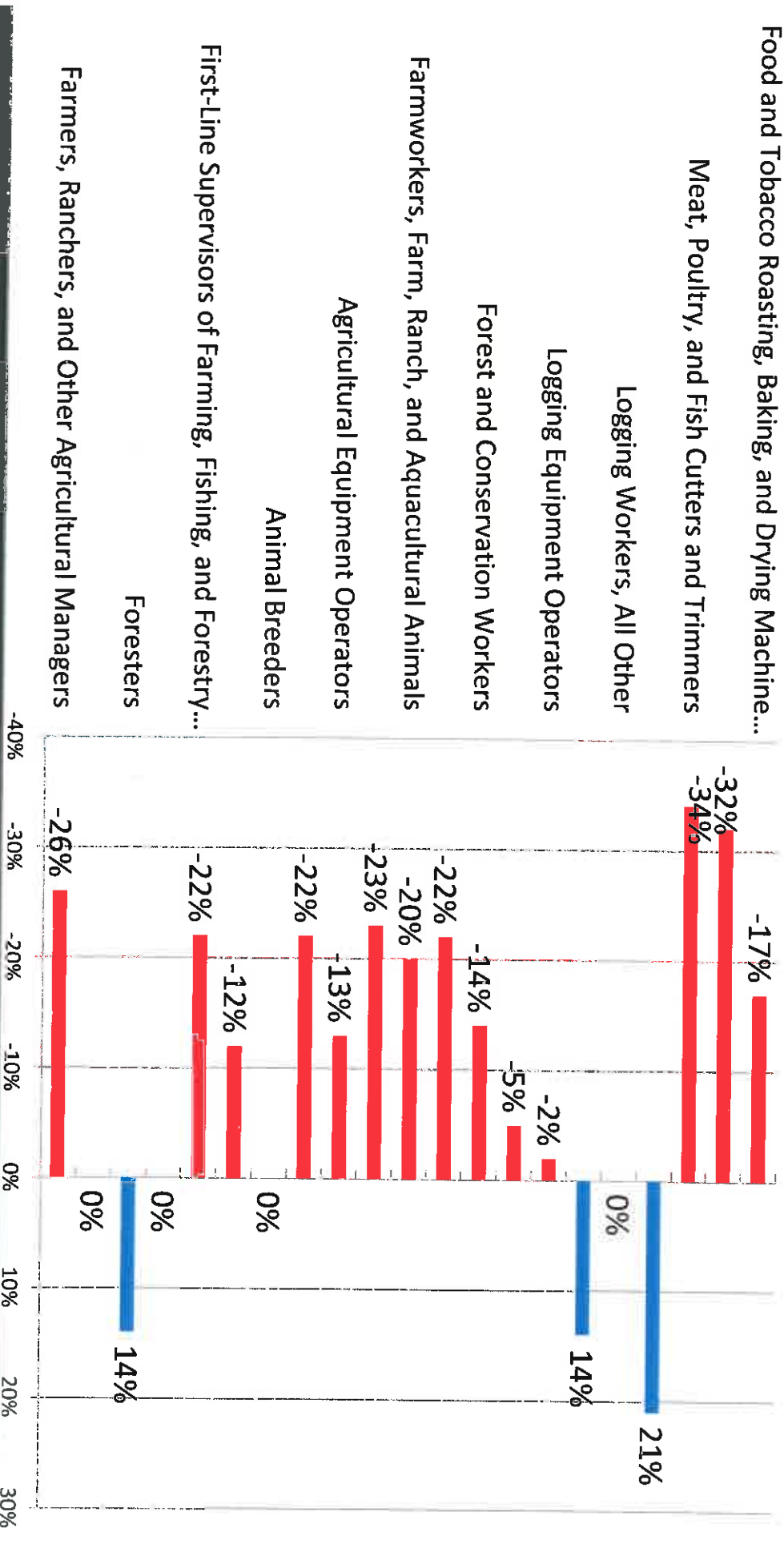
Ag Industry Average Earnings



Ag Occupation Total 2016

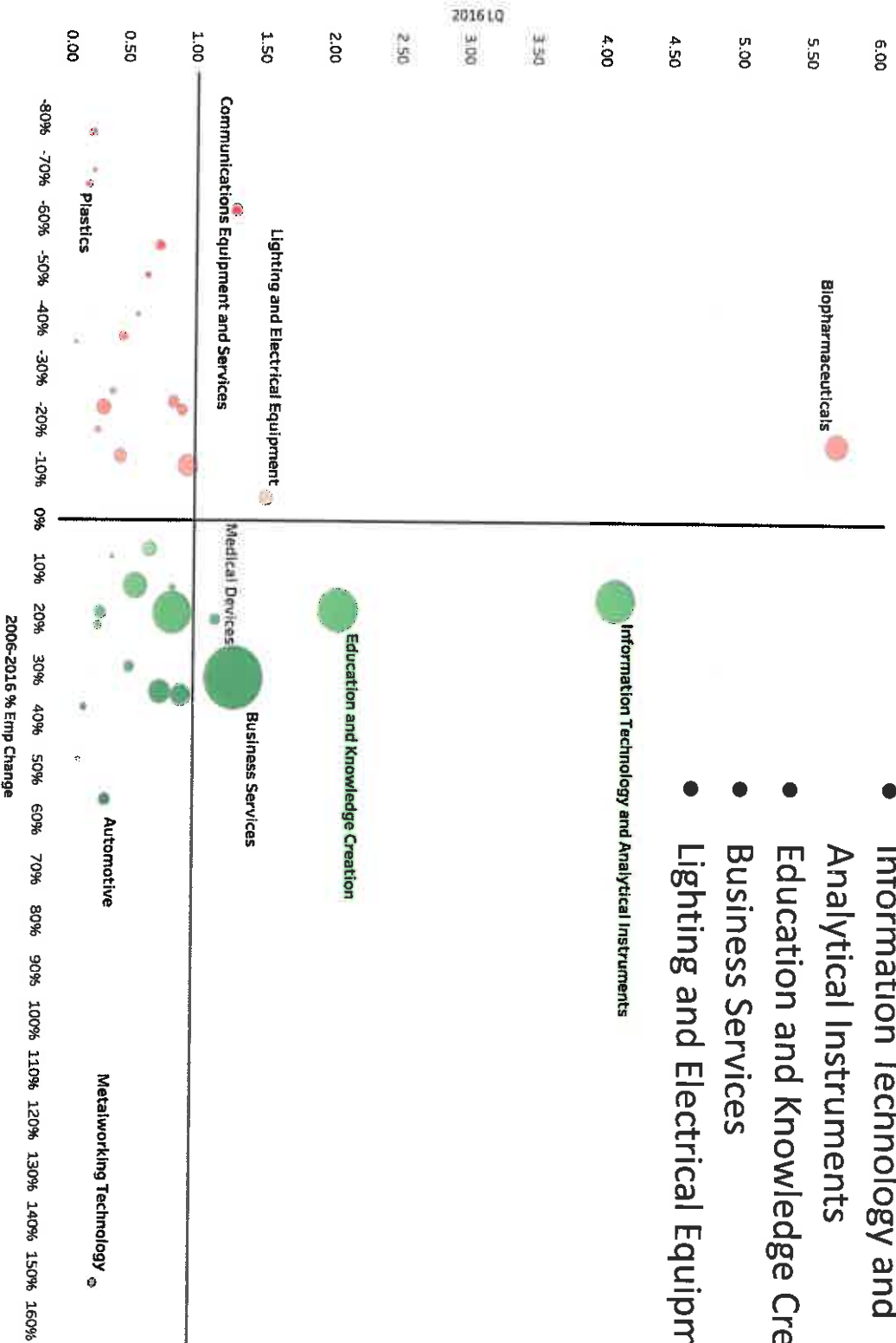


% Change in Agriculture Occupation Jobs (2011-2016)

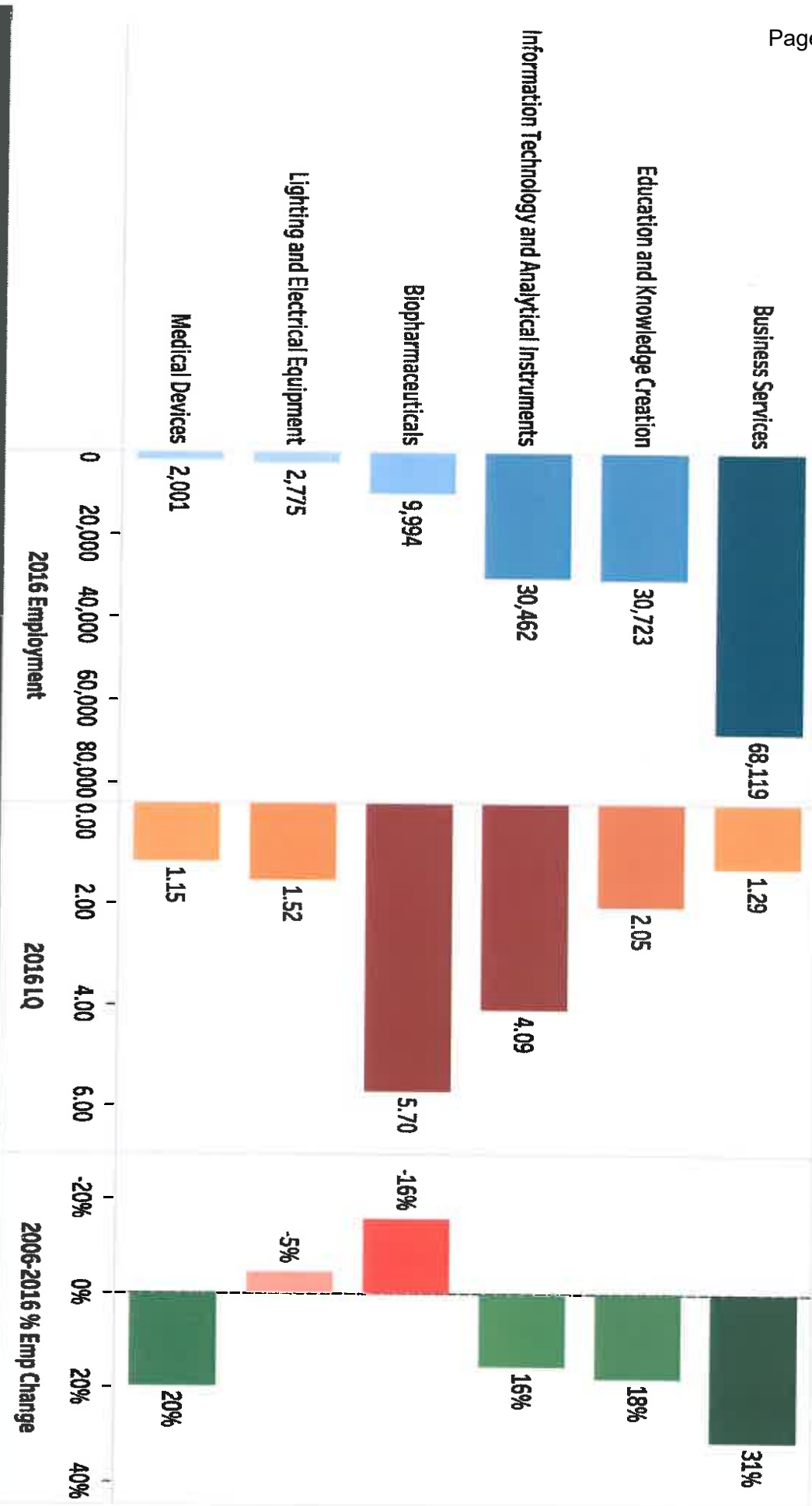


Triangle Cluster Map

- Triangle Asset Clusters:
- Biopharmaceuticals
 - Medical Devices
 - Information Technology and Analytical Instruments
 - Education and Knowledge Creation
 - Business Services
 - Lighting and Electrical Equipment

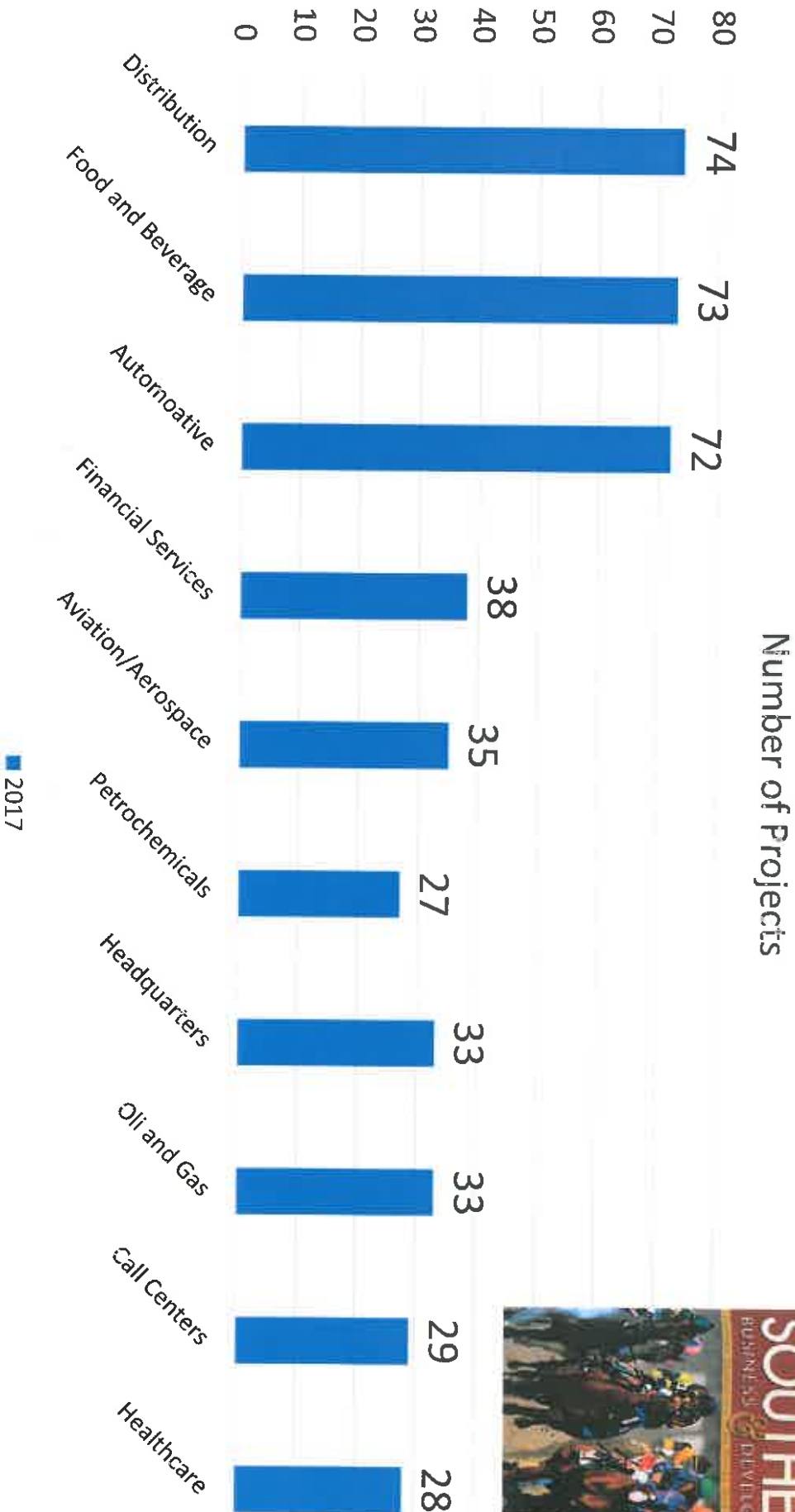
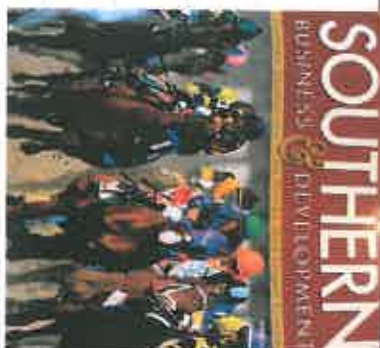


Triangle Asset Cluster Performance Metrics



Big Project Sectors in the South 2017

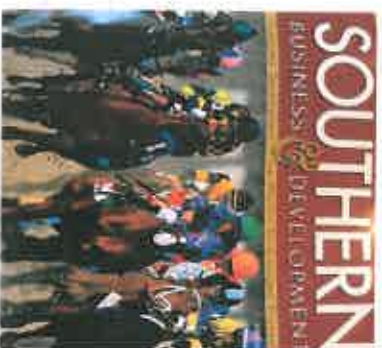
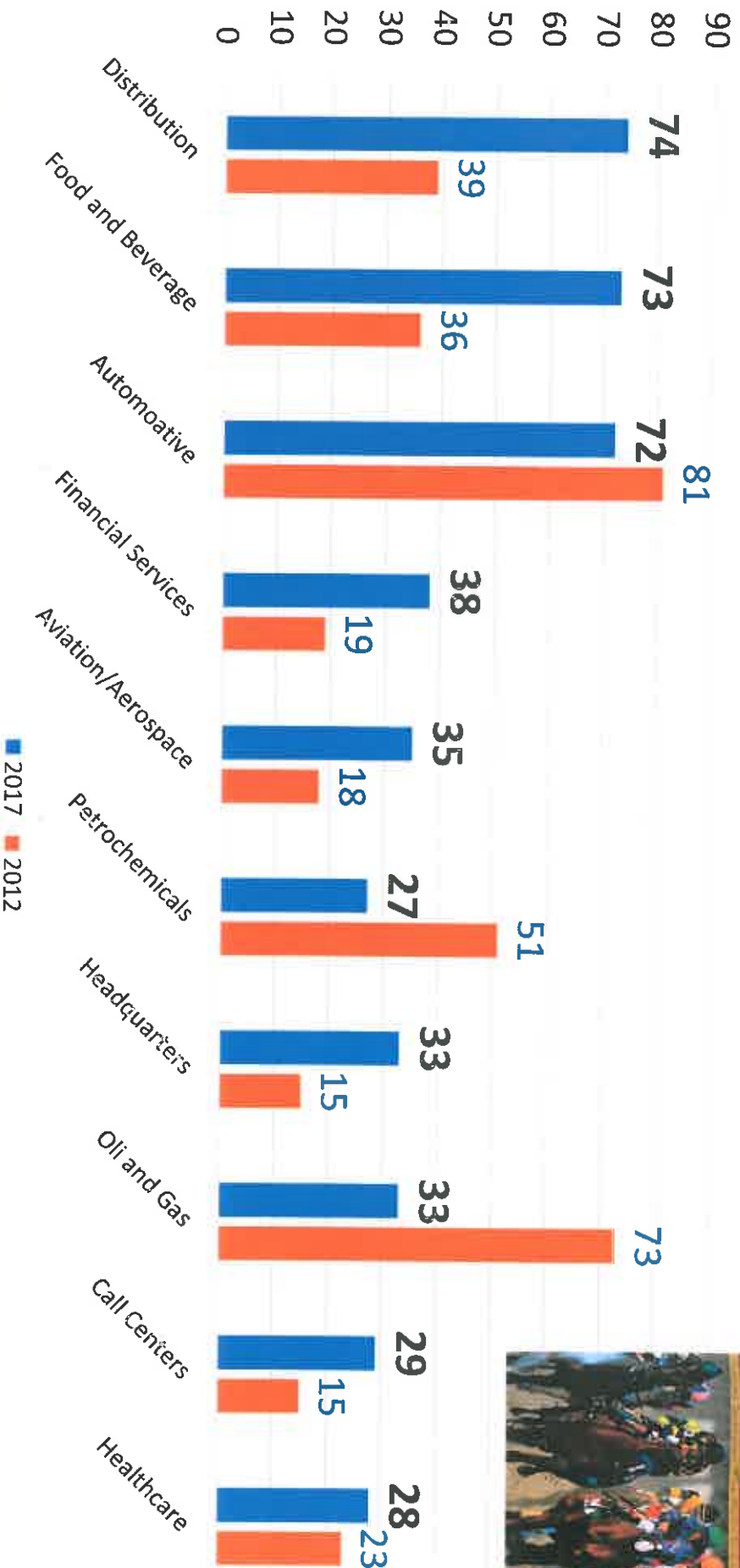
(At least 200 new jobs or \$300 million in new investment)



Big Project Sectors in the South 2017

(At least 200 new jobs or \$300 million in new investment)

Number of Projects



Global Agriculture Trends

- Genetically Modified to address, faster photosynthesis, climate change, water and pesticide reductions, and yields
- Robotics (both harvest & processing)
- Artificial Intelligence
- Urbanization (urban farming-urban consumption)
- New packaging materials
- Shifting farm business structures
- Commodity consumption shifts
- Shifting government policies and subsidies

Interactive Forces Transforming Agriculture



is there a Reasonable Chance of Increasing Value Added Agriculture in the 4-County Region?

Figure 3

The typical agricultural value chain



Source: A.J. Kearney analysis

is there a Reasonable Chance of Increasing Value Added Agriculture in the 4-County Region?

What are the overall goals for the four counties?

- Take advantage of a perceived asset
- Grow job opportunities
- Expand the economy in the county
- Support existing businesses
- Preserve, protect and celebrate history & lifestyle

We believe that there is a good opportunity. The components of a successful value-added agriculture structure exist- but lack resources and collaborative capacity. Also, there is significant and rising competition.

1. Can you build a successful marketing strategy to attract new employers to the region?
2. Can you provide additional support to existing cluster participants?
3. Can you connect the pieces?
4. Can you improve the competitive differentiation of the product?
5. Can you dedicate the resources necessary to achieve results?



Expanding through Attraction

Companies need a robust logistics network that guarantees products can be delivered anywhere in the world, with quick and direct connections to customers.

- Producers are placing increased significance on assurance of an **affordable, consistent, reliable source of energy** to support the technological advances necessary as the industry advances.
- **Close to agriculture research universities** leading in areas of food research, innovation, food safety and training is a competitive advantage
- A state and local business climate that is **business-friendly**
- **Available and affordable workforce**
- Local and state governments that can guide developers **smoothly through the permitting and licensing process**
- **Shovel-ready greenfield land**

Value-Added Food Processing Location Checklist	
Logistics	👍
Energy	👍
Research Universities	👍
Broadband	👍
Business Climate	👍
Workforce	👍
Ease of Permitting	👍
Shovel-ready sites	👍

Expanding through Attraction

Companies need a robust logistics network that guarantees products can be delivered anywhere in the world, with quick and direct connections to customers.

- Producers are placing increased significance on assurance of an **affordable, consistent, reliable source of energy** to support the technological advances necessary as the industry advances.
- **Close to agriculture research universities** leading in areas of food research, innovation, food safety and training is a competitive advantage
- A state and local business climate that is **business-friendly**
- **Available and affordable workforce**
- Local and state governments that can guide developers **smoothly through the permitting and licensing process**
- **Shovel-ready greenfield land**

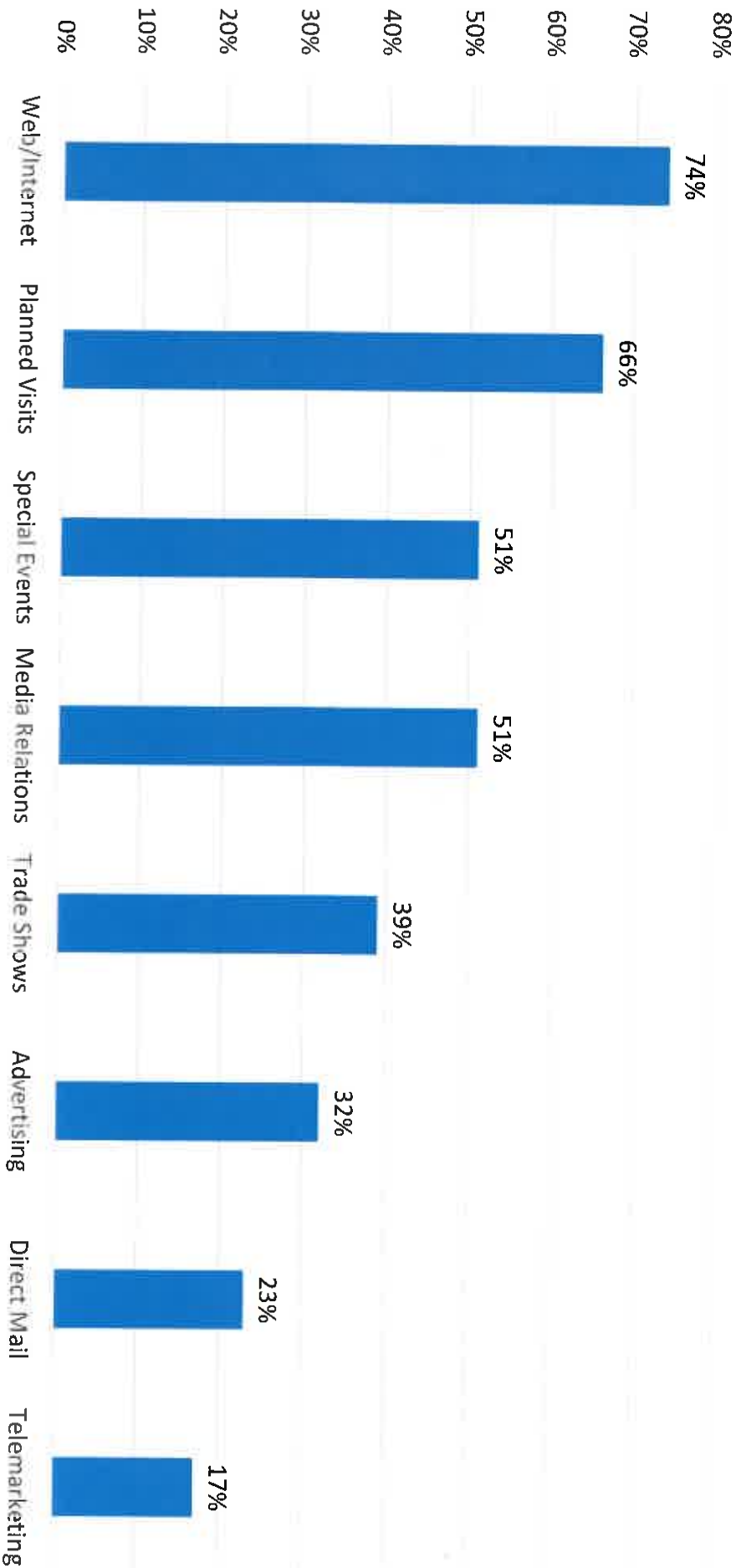
Value-Added Food Processing Location Checklist	
Logistics	1b
Energy	1b
Research Universities	1b
Broadband	1b
Business Climate	1b
Workforce	1b
Ease of Permitting	1b
Shovel-ready sites	1b

Legislative Options

- New legislation to provide a competitive advantage for value-added agriculture
 - Possible state-wide
 - Wide spread support for rural initiatives
- Less likely to find support for legislation only for 4-county region
- Possible- Develop pilot program for 4-county region that could be expanded

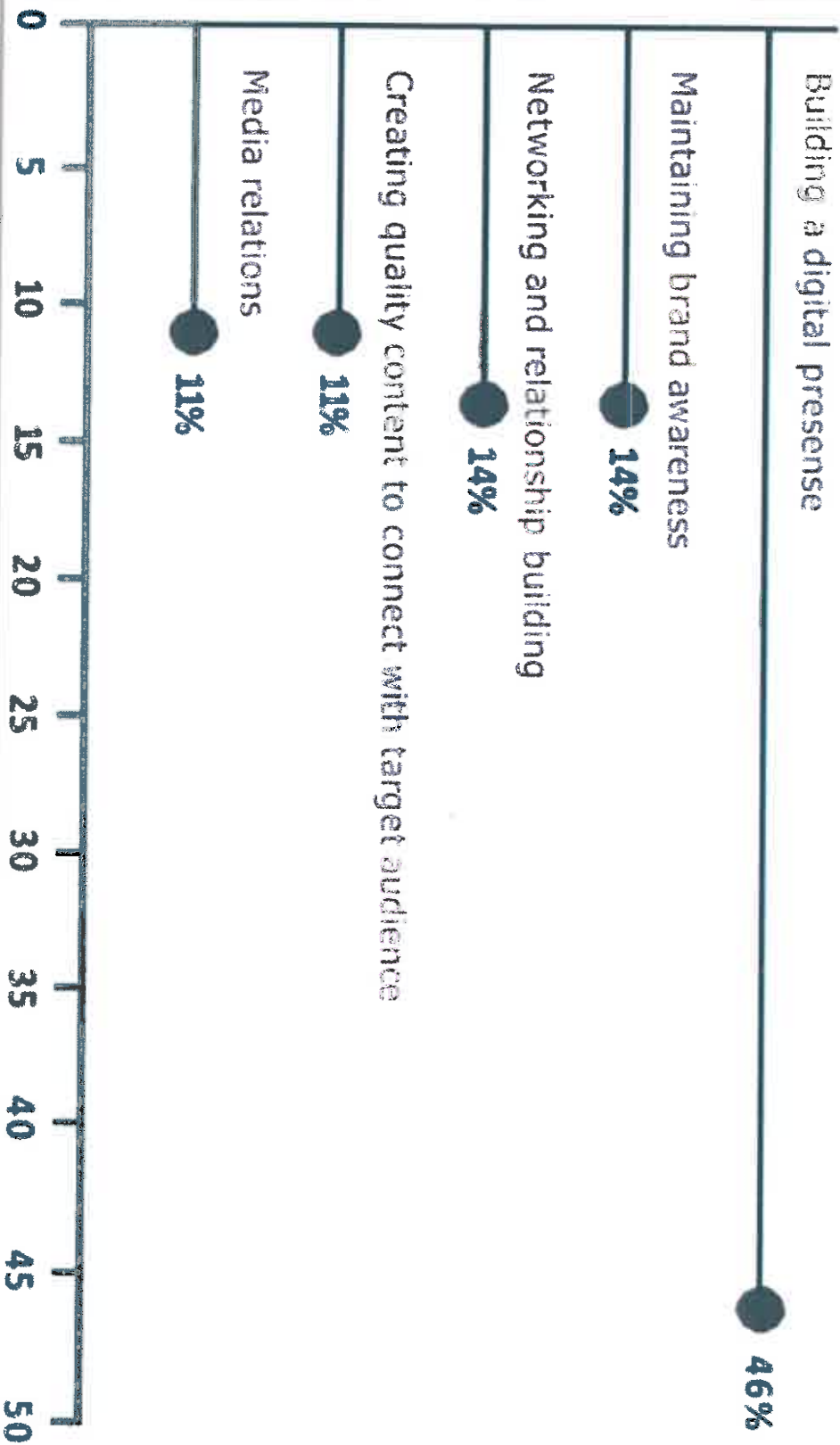
Most Effective Marketing Techniques (DCI Survey of Site Selectors)

2017



ED Marketing Best Practices (EDO)

SINGLE MOST IMPACTFUL MARKETING EFFORTS IN ECONOMIC DEVELOPMENT



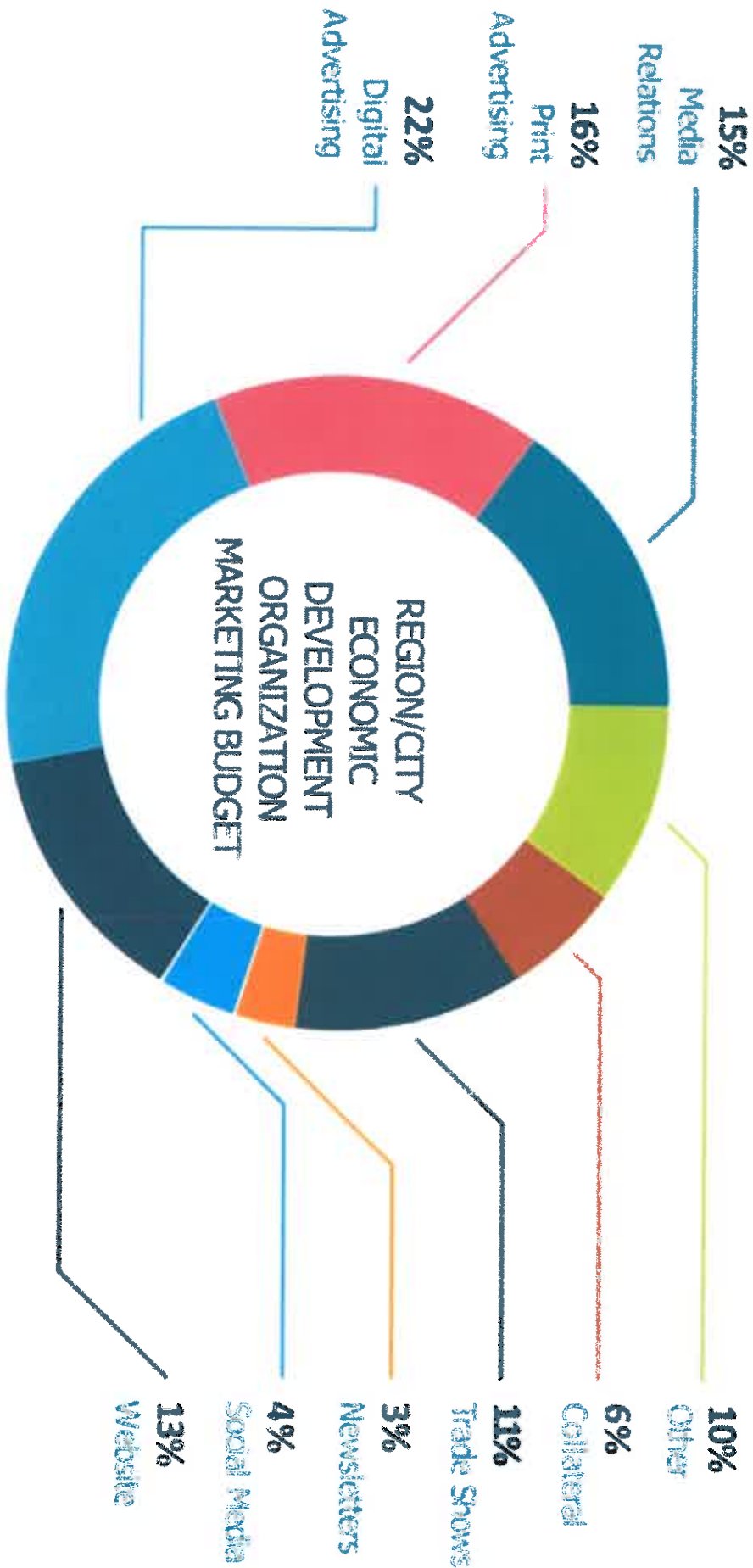
Best Practices Web Sites (DCI)

10 Best Practices for Economic Development Websites

1. Keep Demographic Data Up-to-Date
2. Highlight Key Industries
3. Showcase Leading Employers
4. Provide Comprehensive Contact Information
5. Put Incentives Front and Center
6. GIS for Available Sites
7. Share the Latest News
8. Consider User Experience
9. Keep Design Modern and Fresh
10. Don't Let Your Content Get Lost

by Development Counselors International, August, 2015

ED Marketing Budgets





Recommendations



VALUE ADDED PRODUCT

The Food Processing Sector
Food processing adds value to the agricultural produce starting at the post harvest level. It includes even primary processing like grading, sorting, cutting, seeding, shelling packaging etc.



Recommendations

- **Four counties begin a multi-year effort to incrementally strengthen their value-added agriculture**
 - Targeted recruitment
 - Support to existing agricultural enterprises
 - Build synergy between stakeholders
 - Explore supportive legislation
- **This cannot be solely an effort of the local economic development organizations**
 - Cooperative Extension,
 - Central Carolina and Johnston community colleges
 - Other groups that support farming and business.

Recommendations – Year One

- **Create a steering committee of stakeholders to develop a simple 3-year action agenda**
- **Identify and align these efforts with other ongoing activities such as the work of RTRP, NCEDP, The Central Corridor Manufacturing effort and the priorities of the North Carolina Department of Agriculture.**
- **Hold a legislative meeting for all state house and senate members in the four-county region to explain the goals of the efforts and to begin to identify opportunities for future legislation.**
- **Begin a series of focus groups with local agriculture businesses**
- **Develop, maintain and continuously update a joint website**

Recommendations – Year One

- **Reach out to other funding organizations, such as Golden LEAF and other foundations to attract additional funds to expand and accelerate the effort.**
- **Appropriate \$15,000 per county to the effort.** In year one \$30,000 would be budgeted for the development and maintenance of the web site and \$30,000 would be allocated to the staff resources necessary to accomplish the other tasks. Staff resources could be new part-time staff at one of the counties or contracted staff.

Recommendations – Year Two

- **Begin targeted marketing** to attract food-processing, participate in one or two national tradeshow and call on 5-10 site location consultants who specialize in food processing firms.
- **Develop an active social media campaign** targeted at internal and external audiences.
- **Develop targeted food processing support legislation.**
- **Explore the interest in creating a broader (public-private) agriculture cluster network.**
- **Appropriate \$17,500 per county and attempt to raise an additional \$20,000 for a \$90,000 annual budget.**

Recommendations – Year Three

- **Develop a functioning public-private Cluster Network.**
- **Sustain and expand marketing efforts** with direct calls on 20-30 national companies in addition to calls on site selection consultants and participation in trade shows.
- **Appropriate \$20,000 per county to support activities and attempt to raise an additional \$25,000.** Funds would be used for staff support (\$45,000), Marketing (\$45,000) and cluster coordination.

Increasing Value-Added Agriculture



Chatham, Harnett, Johnston & Lee Counties, NC

February 2018 | Economic Leadership LLC

WESARA SITE



KEY

- ① RECTANGLE FIELDS COMPLEX
- ② NATURAL GRASS FIELDS
- ③ SYNTHETIC FIELDS
- ④ DIAMOND FIELDS COMPLEX
- ⑤ NATURAL GRASS FIELDS (300)
- ⑥ NATURAL GRASS FIELDS
- ⑦ PARKING SPACES
- ⑧ HOTEL
- ⑨ COMMERCIAL BUILDING
- ⑩ DESTINATION PLAYGROUND
- ⑪ ROADSIDE PAVILION
- ⑫ HORSESHOE MTS
- ⑬ DISC GOLF
- ⑭ SAND VOLLEYBALL
- ⑮ PAVILION (TYR)
- ⑯ CONCESSION/RESTROOM (TYR)
- ⑰ SAND VOLLEYBALL
- ⑱ DETENTION POND (TYR)
- ⑲ MAINTENANCE BUILDING
- ⑳ WALKING TRAILS (TYR)
- ㉑ NATURE TRAILS (TYR)
- ㉒ PEDESTRIAN BRIDGE (TYR)

LEGEND

- PROPERTY BOUNDARY
- STREAM

WOOLBERT

 BRAILSFORD & DUNLAVEY

CONCEPTUAL MASTER PLAN

Sandfield, NC
 01.15.2016

Probable Construction Costs

Market Entry - 8 rectangles, 4 diamonds, no synthetic, no community amenities

Wesara Site Multi-Purpose Recreation Complex

City of Sanford, NC

Estimate of Probable Construction Cost

WORKSHEET - Capital Cost

17-Dec-15

NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
8 Rectangle Fields and Upper Parking Lot (+/- 600 Spaces)					
Site prep/ hardscape/softscape					
1	CLEARING/DEMO/SITE PREP	18.0	AC	\$5,000.00	\$90,000.00
2	EARTHWORK	200,000.0	CY	\$4.00	\$800,000.00
3	EROSION CONTROL (40 ac)	1.0	LS	\$50,000.00	\$50,000.00
4	GENERAL SEEDING	10.0	AC	\$5,000.00	\$50,000.00
5	STORM DRAINAGE	1.0	LS	\$120,000.00	\$75,000.00
6	STORM DETENTION	1.0	LS	\$50,000.00	\$50,000.00
7					
8	FIELD SOIL & DRAINAGE (8 fields)	8.0	EA	\$37,500.00	\$300,000.00
9	FIELD TURF ESTABLISH (grow-in 20 Ac)	20.0	EA	\$7,500.00	\$150,000.00
10	CONCRETE PLAZAS (allowance)	1.0	LS	\$100,000.00	\$25,000.00
11	CONCRETE PERIMETER WALKING TRAILS (allowance)	1.0	LS	\$75,000.00	\$75,000.00
12	ASPHALT PARKING LOT	23,000.0	SY	\$22.50	\$517,500.00
13	CONCRETE CURB & GUTTER	7,000.0	LF	\$17.00	\$119,000.00
Architecture					
14	RR/ CONCESSION PAVILION (3500 SF)	3,500.0	EA	\$150.00	\$525,000.00
15					
16	WAYFINDING / SIGNAGE	1.0	LS	\$75,000.00	\$10,000.00
Utilities					
17	FIRE LINE & HYDRANT (700 LF-tap to prop 6" at drive)	1.0	LS	\$50,000.00	\$50,000.00
18	2" WATER SERVICE (1100 LF-tap to prop 6" at drive)	1.0	LS	\$25,000.00	\$25,000.00
19	ELECTRICAL SERVICE	1.0	LS	\$10,000.00	\$10,000.00
20	METAL HALIDE / Glare Control Sports Lighting	8.0	EA	\$130,000.00	\$1,040,000.00
21	LATERAL SANITARY SEWER SYSTEM (Allowance)	1.0	LS	\$50,000.00	\$50,000.00
PARKING LOT AND AREA LIGHTING BY LOCAL POWER COMPANY					
Misc.					
22	BLEACHERS & PAD (allowance)	10.0	EA	\$5,000.00	\$10,000.00
23	LANDSCAPING/ TREES (allowance)	1.0	LS	\$100,000.00	\$20,000.00
24	FIELD EQUIPMENT (scoreboards, etc)	8.0	SET	\$4,000.00	\$32,000.00
25	CHAIN LINK FENCE (black vinyl 4ft & 6ft)	6,000.0	LF	\$18.00	\$50,000.00
26					
27					
28	FIELD IRRIGATION	6.0	EA	\$36,000.00	\$216,000.00
29	IRRIGATION CONNECTION (meter/BF/box)	1.0	EA	\$25,000.00	\$25,000.00
30	SITE AMENITIES (field team bench+ trash recpt)	8.0	SET	\$1,000.00	\$8,000.00
31	SITE AMENITIES (misc allowance- flagpoles/ bollards, etc)	1.0	LS	\$25,000.00	\$25,000.00
32					
SUB TOTAL (Construction/Hard Cost)					\$4,397,500.00
Mobilization + Gen Conditions + Bond etc (5%)					\$219,875.00
ESTIMATING CONTINGENCY 10%					\$439,750.00
PROJECTED CONSTRUCTION COST					\$5,057,125.00
4 Diamond Fields and Lower Parking Lots (+/- 300 Spaces)					
Site prep/ hardscape/softscape					
1	CLEARING/DEMO/SITE PREP	18.00	AC	\$5,000.00	\$90,000.00
2	EARTHWORK	150,000.0	CY	\$4.00	\$600,000.00
3	EROSION CONTROL (35 ac)	1.0	LS	\$40,000.00	\$40,000.00
4	STORM DRAINAGE	1.0	LS	\$75,000.00	\$75,000.00
5	STORM DETENTION	1.0	LS	\$50,000.00	\$50,000.00
6	GENERAL SEEDING	6.0	AC	\$5,000.00	\$30,000.00

ESTIMATING CONTINGENCY 10%	\$0.00
PROJECTED CONSTRUCTION COST	\$0.00
PROJECTED TOTAL CONSTRUCTION COST	\$10,374,265.00
soft costs (20%)	\$2,074,853.00
TOTAL	\$12,449,118.00

* other services that maybe required (ie. light/ turnlanes) and are not represented include NCDOT road improvement costs along Broadway Street. Another item is add't bio retention/ storm water related costs that the City/ county may further require.

Probable Construction Costs

Market Competitive - 8 rectangles (2 synthetic), 5 diamonds, no community amenities.

Wesara Site Multi-Purpose Recreation Complex
City of Sanford, NC
Estimate of Probable Construction Cost
WORKSHEET - Capital Cost
17-Dec-15

NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
8 Rectangle Fields and Upper Parking Lot (+/- 600 Spaces)					
Site prep/ hardscape/softscape					
1	CLEARING/DEMO/SITE PREP	22.00	AC	\$5,000.00	\$110,000.00
2	EARTHWORK	200,000.0	CY	\$4.00	\$800,000.00
3	EROSION CONTROL (40 ac)	1.0	LS	\$50,000.00	\$50,000.00
4	GENERAL SEEDING	10.0	AC	\$5,000.00	\$50,000.00
5	STORM DRAINAGE	1.0	LS	\$120,000.00	\$120,000.00
6	STORM DETENTION	1.0	LS	\$50,000.00	\$50,000.00
7	SYNTHETIC FIELDS (2 fields)	2.0	EA	\$650,000.00	\$1,300,000.00
8	FIELD SOIL & DRAINAGE (6 fields)	6.0	EA	\$85,000.00	\$510,000.00
9	FIELD TURF ESTABLISH (grow-in 20 Ac)	20.0	EA	\$7,500.00	\$150,000.00
10	CONCRETE PLAZAS (allowance)	1.0	LS	\$100,000.00	\$65,000.00
11	CONCRETE PERIMETER WALKING TRAILS (allowance)	1.0	LS	\$75,000.00	\$75,000.00
12	ASPHALT PARKING LOT	23,000.0	SY	\$22.50	\$517,500.00
13	CONCRETE CURB & GUTTER	7,000.0	LF	\$17.00	\$119,000.00
Architecture					
14	RR/ CONCESSION PAVILION (3500 SF)	3,500.0	EA	\$200.00	\$700,000.00
15	WAYFINDING / SIGNAGE	1.0	LS	\$75,000.00	\$25,000.00
Utilities					
17	FIRE LINE & HYDRANT (700 LF-tap to prop 6" at drive)	1.0	LS	\$50,000.00	\$50,000.00
18	2" WATER SERVICE (1100 LF-tap to prop 6" at drive)	1.0	LS	\$25,000.00	\$25,000.00
19	ELECTRICAL SERVICE	1.0	LS	\$10,000.00	\$10,000.00
20	METAL HALIDE / Glare Control Sports Lighting	8.0	EA	\$130,000.00	\$1,040,000.00
21	LATERAL SANITARY SEWER SYSTEM (Allowance)	1.0	LS	\$50,000.00	\$50,000.00
PARKING LOT AND AREA LIGHTING BY LOCAL POWER COMPANY					
Misc.					
22	BLEACHERS & PAD (10 locations)	10.0	EA	\$5,000.00	\$50,000.00
23	LANDSCAPING/ TREES (allowance)	1.0	LS	\$100,000.00	\$60,000.00
24	FIELD EQUIPMENT (scoreboards, etc)	8.0	SET	\$4,000.00	\$32,000.00
25	CHAIN LINK FENCE (black vinyl 4ft & 6ft)	6,000.0	LF	\$18.00	\$108,000.00
26	GOAL END & SIDE NETTING (netting + post only)	2,000.0	LF	\$30.00	\$60,000.00
27	FIELD IRRIGATION	6.0	EA	\$36,000.00	\$216,000.00
29	IRRIGATION CONNECTION (meter/BF/box)	1.0	EA	\$25,000.00	\$25,000.00
30	SITE AMENITIES (field team bench+ trash recpt)	8.0	SET	\$1,000.00	\$8,000.00
31	SITE AMENITIES (misc allowance- flagpoles/ bollards, etc)	1.0	LS	\$25,000.00	\$25,000.00
32					
SUB TOTAL (Construction/Hard Cost)					\$6,390,500.00
Mobilization + Gen Conditions + Bond etc (5%)					\$319,525.00
ESTIMATING CONTINGENCY 12%					\$766,860.00
PROJECTED CONSTRUCTION COST					\$7,476,885.00
5 Diamond Fields and Lower Parking Lots (+/- 375 Spaces)					
Site prep/ hardscape/softscape					
1	CLEARING/DEMO/SITE PREP	20.00	AC	\$5,000.00	\$100,000.00
2	EARTHWORK	185,000.0	CY	\$4.00	\$740,000.00

3	EROSION CONTROL (40 ac)	1.0	LS	\$50,000.00	\$50,000.00
4	STORM DRAINAGE	1.0	LS	\$100,000.00	\$100,000.00
5	STORM DETENTION	1.0	LS	\$50,000.00	\$50,000.00
6	GENERAL SEEDING	8.0	AC	\$5,000.00	\$40,000.00
7	DIAMOND FIELD (5 FIELDS)	5.0	EA	\$175,000.00	\$875,000.00
8	CONCRETE PLAZAS (allowance)	1.0	LS	\$75,000.00	\$75,000.00
9	CONCRETE PERIMETER WALKING TRAILS (allowance)	1.0	LS	\$75,000.00	\$75,000.00
10	ASPHALT PARKING LOTS	30,000.0	SY	\$22.50	\$675,000.00
11	CONCRETE CURB & GUTTER	10,000.0	LF	\$17.00	\$170,000.00
Architecture					
12	RR/ CONCESSION / SCORERS PAVILION (3000 SF)	3,000.0	SF	\$200.00	\$600,000.00
13	PAVILION W/ RR	1.0	EA	\$200,000.00	
14	SMALL PAVILIONS	3.0	EA	\$50,000.00	\$150,000.00
15	WAYFINDING / SIGNAGE	1.0	LS	\$50,000.00	\$25,000.00
Utilities					
16	FIRE LINE & HYDRANT (200 LF-tap 6")	1.0	LS	\$20,000.00	\$20,000.00
17	2" WATER SERVICE (700LF-tap 6")	1.0	LS	\$15,000.00	\$15,000.00
18	ELECTRICAL SERVICE	1.0	LS	\$10,000.00	\$10,000.00
19	METAL HALIDE / Glare Control Sports Lighting	5.0	EA	\$90,000.00	\$450,000.00
20	LATERAL SANITARY SEWER SYSTEM (Allowance)	1.0	LS	\$75,000.00	\$75,000.00
PARKING LOT AND AREA LIGHTING BY LOCAL POWER COMPANY					
Misc					
21	DESTINATION PLAYGROUND	1.0	LS	\$400,000.00	
22	LANDSCAPING/ TREES (allowance)	1.0	LS	\$100,000.00	\$50,000.00
23	BLEACHERS & PAD (portable)	5.0	SET	\$4,000.00	\$20,000.00
24					
25	GATEWAY / ENTRY STRUCTURES	2.0	EA	\$25,000.00	\$50,000.00
26	SITE AMENITIES (field team bench+ trash recpt)	5.0	SET	\$1,000.00	\$5,000.00
27	SITE AMENITIES (tables at shelters)	30.0	EA	\$700.00	\$21,000.00
28	SITE AMENITIES (grills+ trash recpt at shelters/ picnic sites)	10.0	SET	\$750.00	\$7,500.00
29	SITE AMENITIES (misc allowance- flagpoles/ bollards, etc)	1.0	LS	\$10,000.00	\$10,000.00
30					
31	MAINTENANCE FACILITY (minimal to mid level facility)	1.0	LS	\$300,000.00	\$150,000.00
SUB TOTAL (Construction/Hard Cost)					\$4,608,500.00
Mobilization + Gen Conditions + Bond etc (5%)					\$230,425.00
ESTIMATING CONTINGENCY 12%					\$553,020.00
PROJECTED CONSTRUCTION COST					\$5,391,945.00
Park Road (Built to Municipal Standards)					
1	CLEARING	2.00	AC	\$5,000.00	\$10,000.00
2	EARTHWORK	50,000.0	CY	\$4.00	\$200,000.00
3	EROSION CONTROL	1.0	LS	\$25,000.00	\$25,000.00
4	STORM DRAINAGE	1.0	LS	\$100,000.00	\$100,000.00
5	STORM DETENTION	1.0	LS	\$50,000.00	\$50,000.00
6	GENERAL SEEDING	5.0	AC	\$5,000.00	\$25,000.00
7	CONCRETE SIDEWALK (allowance)	1.0	LS	\$75,000.00	\$75,000.00
8	ENTRANCE GATES / DEMO ON BROADWAY STREET	1.0	EA	\$25,000.00	\$25,000.00
9	WAYFINDING / MAIN SIGNAGE	1.0	LS	\$30,000.00	\$30,000.00
10	ASPHALT ROAD	11,000.0	SY	\$22.50	\$247,500.00
11	CONCRETE CURB & GUTTER	7,800.0	LF	\$17.00	\$132,600.00
12	SANITARY SEWER MAINLINE	1.0	LS	\$110,000.00	\$110,000.00
13	SANITARY SEWER PUMP STATION	1.0	LS	\$75,000.00	\$75,000.00
14	6 " MAIN WATERLINE	1.0	LS	\$140,000.00	\$140,000.00
SUB TOTAL (Construction/Hard Cost)					\$1,245,100.00
Mobilization + Gen Conditions + Bond etc (5%)					\$62,255.00
ESTIMATING CONTINGENCY 12%					\$149,412.00
PROJECTED CONSTRUCTION COST					\$1,456,767.00
Trails, Passive Recreation Amenities and Misc.					

Probable Construction Costs

Market Advantage- 8 rectangles (2 synthetic), 5 diamonds, additional sports amenities (pavilion, signage)

Wesara Site Multi-Purpose Recreation Complex

City of Sanford, NC

Estimate of Probable Construction Cost

WORKSHEET - Capital Cost
17-Dec-15

NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
8 Rectangle Fields and Upper Parking Lot (+/- 600 Spaces)					
Site prep/ hardscape/softscape					
1	CLEARING/DEMO/SITE PREP	22.00	AC	\$5,000.00	\$110,000.00
2	EARTHWORK	200,000.0	CY	\$4.00	\$800,000.00
3	EROSION CONTROL (40 ac)	1.0	LS	\$50,000.00	\$50,000.00
4	GENERAL SEEDING	10.0	AC	\$5,000.00	\$50,000.00
5	STORM DRAINAGE	1.0	LS	\$120,000.00	\$120,000.00
6	STORM DETENTION	1.0	LS	\$50,000.00	\$50,000.00
7	SYNTHETIC FIELDS (2 fields)	2.0	EA	\$650,000.00	\$1,300,000.00
8	FIELD SOIL & DRAINAGE (6 fields)	6.0	EA	\$110,000.00	\$660,000.00
9	FIELD TURF ESTABLISH (grow-in 20 Ac)	20.0	EA	\$7,500.00	\$150,000.00
10	CONCRETE PLAZAS (allowance)	1.0	LS	\$100,000.00	\$100,000.00
11	CONCRETE PERIMETER WALKING TRAILS (allowance)	1.0	LS	\$75,000.00	\$75,000.00
12	ASPHALT PARKING LOT	23,000.0	SY	\$22.50	\$517,500.00
13	CONCRETE CURB & GUTTER	7,000.0	LF	\$17.00	\$119,000.00
Architecture					
14	RR/ CONCESSION PAVILION (3500 SF)	3,500.0	EA	\$200.00	\$700,000.00
15	OPEN "FARMER MARKET" PAVILIONS	2.0	EA	\$200,000.00	\$400,000.00
16	WAYFINDING / SIGNAGE	1.0	LS	\$75,000.00	\$75,000.00
Utilities					
17	FIRE LINE & HYDRANT (700 LF-tap to prop 6" at drive)	1.0	LS	\$50,000.00	\$50,000.00
18	2" WATER SERVICE (1100 LF-tap to prop 6" at drive)	1.0	LS	\$25,000.00	\$25,000.00
19	ELECTRICAL SERVICE	1.0	LS	\$10,000.00	\$10,000.00
20	METAL HALIDE / Glare Control Sports Lighting	8.0	EA	\$130,000.00	\$1,040,000.00
21	LATERAL SANITARY SEWER SYSTEM (Allowance)	1.0	LS	\$50,000.00	\$50,000.00
PARKING LOT AND AREA LIGHTING BY LOCAL POWER COMPANY					
Misc.					
22	BLEACHERS & PAD (10 locations)	10.0	EA	\$5,000.00	\$50,000.00
23	LANDSCAPING/ TREES (allowance)	1.0	LS	\$100,000.00	\$100,000.00
24	FIELD EQUIPMENT (Goals/Flags/wheelkit)	8.0	SET	\$4,000.00	\$32,000.00
25	CHAIN LINK FENCE (black vinyl 4ft & 6ft)	6,000.0	LF	\$18.00	\$108,000.00
26	GOAL END & SIDE NETTING (netting + post only)	2,000.0	LF	\$30.00	\$60,000.00
27	MOW STRIP AT NET POSTS	2,000.0	LF	\$17.00	\$34,000.00
28	FIELD IRRIGATION	6.0	EA	\$36,000.00	\$216,000.00
29	IRRIGATION CONNECTION (meter/BF/box)	1.0	EA	\$25,000.00	\$25,000.00
30	SITE AMENITIES (field team bench+ trash recept)	8.0	SET	\$1,000.00	\$8,000.00
31	SITE AMENITIES (misc allowance- flagpoles/ bollards, etc)	1.0	LS	\$25,000.00	\$25,000.00
32					
SUB TOTAL (Construction/Hard Cost)					\$6,659,500.00
Mobilization + Gen Conditions + Bond etc (5%)					\$332,975.00
ESTIMATING CONTINGENCY 15%					\$998,925.00
PROJECTED CONSTRUCTION COST					\$7,991,400.00
5 Diamond Fields and Lower Parking Lots (+/- 375 Spaces)					
Site prep/ hardscape/softscape					
1	CLEARING/DEMO/SITE PREP	20.00	AC	\$5,000.00	\$100,000.00
2	EARTHWORK	185,000.0	CY	\$4.00	\$740,000.00

Probable Construction Costs

Market Advantage and Community Asset

10 rectangles (2 synthetic), 5 diamonds, additional complex amenities (pavilion, signage), & community amenities (Farmer's Mkt pavilion, destination playground, etc.)

Wesara Site Multi-Purpose Recreation Complex

City of Sanford, NC

Estimate of Probable Construction Cost

WORKSHEET - Capital Cost

17-Dec-15

NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
10 Rectangle Fields and Upper Parking Lot (+/- 600 Spaces)					
	Site prep/ hardscape/softscape				
1	CLEARING/DEMO/SITE PREP	22.00	AC	\$5,000.00	\$110,000.00
2	EARTHWORK	200,000.0	CY	\$4.00	\$800,000.00
3	EROSION CONTROL (40 ac)	1.0	LS	\$50,000.00	\$50,000.00
4	GENERAL SEEDING	10.0	AC	\$5,000.00	\$50,000.00
5	STORM DRAINAGE	1.0	LS	\$120,000.00	\$120,000.00
6	STORM DETENTION	1.0	LS	\$50,000.00	\$50,000.00
7	SYNTHETIC FIELDS (2 fields)	2.0	EA	\$650,000.00	\$1,300,000.00
8	FIELD SOIL & DRAINAGE (8 fields)	8.0	EA	\$110,000.00	\$680,000.00
9	FIELD TURF ESTABLISH (grow-in 15 Ac)	15.0	EA	\$10,000.00	\$150,000.00
10	CONCRETE PLAZAS (allowance)	1.0	LS	\$100,000.00	\$100,000.00
11	CONCRETE PERIMETER WALKING TRAILS (allowance)	1.0	LS	\$75,000.00	\$75,000.00
12	ASPHALT PARKING LOT	23,000.0	SY	\$22.50	\$517,500.00
13	CONCRETE CURB & GUTTER	7,000.0	LF	\$17.00	\$119,000.00
	Architecture				
14	RR/ CONCESSION PAVILION (3500 SF)	3,500.0	EA	\$200.00	\$700,000.00
15	OPEN "FARMER MARKET" PAVILIONS	2.0	EA	\$200,000.00	\$400,000.00
16	WAYFINDING / SIGNAGE	1.0	LS	\$75,000.00	\$75,000.00
	Utilities				
17	FIRE LINE & HYDRANT (700 LF-tap to prop 6" at drive)	1.0	LS	\$50,000.00	\$50,000.00
18	2" WATER SERVICE (1100 LF-tap to prop 6" at drive)	1.0	LS	\$25,000.00	\$25,000.00
19	ELECTRICAL SERVICE	1.0	LS	\$10,000.00	\$10,000.00
20	METAL HALIDE / Glare Control Sports Lighting	8.0	EA	\$130,000.00	\$1,040,000.00
21	LATERAL SANITARY SEWER SYSTEM (Allowance)	1.0	LS	\$50,000.00	\$50,000.00
	PARKING LOT AND AREA LIGHTING BY LOCAL POWER COMPANY				
	Misc.				
22	BLEACHERS & PAD (10 locations)	10.0	EA	\$5,000.00	\$50,000.00
23	LANDSCAPING/ TREES (allowance)	1.0	LS	\$100,000.00	\$100,000.00
24	FIELD EQUIPMENT (Goals/Flags/wheelkit)	10.0	SET	\$4,000.00	\$32,000.00
25	CHAIN LINK FENCE (black vinyl 4ft & 6ft)	6,000.0	LF	\$18.00	\$108,000.00
26	GOAL END & SIDE NETTING (netting + post only)	2,000.0	LF	\$30.00	\$60,000.00
27	MOW STRIP AT NET POSTS	2,000.0	LF	\$17.00	\$34,000.00
28	FIELD IRRIGATION	6.0	EA	\$36,000.00	\$216,000.00
29	IRRIGATION CONNECTION (meter/BF/box)	1.0	EA	\$25,000.00	\$25,000.00
30	SITE AMENITIES (field team bench+ trash recpt)	8.0	SET	\$1,000.00	\$8,000.00
31	SITE AMENITIES (misc allowance- flagpoles/ bollards, etc)	1.0	LS	\$25,000.00	\$25,000.00
32	VOLLEYBALL COURTS	4.0	EA	\$15,000.00	\$60,000.00
	SUB TOTAL (Construction/Hard Cost)				\$7,189,500.00
	Mobilization + Gen Conditions + Bond etc (5%)				\$358,475.00
	ESTIMATING CONTINGENCY 15%				\$1,075,425.00
	PROJECTED CONSTRUCTION COST				\$8,603,400.00
5 Diamond Fields and Lower Parking Lots (+/- 375 Spaces)					
	Site prep/ hardscape/softscape				
1	CLEARING/DEMO/SITE PREP	20.00	AC	\$5,000.00	\$100,000.00
2	EARTHWORK	185,000.0	CY	\$4.00	\$740,000.00
3	EROSION CONTROL (40 ac)	1.0	LS	\$50,000.00	\$50,000.00

4	STORM DRAINAGE	1.0	LS	\$100,000.00	\$100,000.00
5	STORM DETENTION	1.0	LS	\$50,000.00	\$50,000.00
6	GENERAL SEEDING	8.0	AC	\$5,000.00	\$40,000.00
7	DIAMOND FIELD (5 FIELDS)	5.0	EA	\$175,000.00	\$875,000.00
8	CONCRETE PLAZAS (allowance)	1.0	LS	\$75,000.00	\$75,000.00
9	CONCRETE PERIMETER WALKING TRAILS (allowance)	1.0	LS	\$75,000.00	\$75,000.00
10	ASPHALT PARKING LOTS	30,000.0	SY	\$22.50	\$675,000.00
11	CONCRETE CURB & GUTTER	10,000.0	LF	\$17.00	\$170,000.00
Architecture					
12	RR/ CONCESSION / SCORERS PAVILION (3000 SF)	3,000.0	SF	\$200.00	\$600,000.00
13	PAVILION W/ RR	1.0	EA	\$200,000.00	\$200,000.00
14	SMALL PAVILIONS	5.0	EA	\$50,000.00	\$250,000.00
15	WAYFINDING / SIGNAGE	1.0	LS	\$50,000.00	\$50,000.00
Utilities					
16	FIRE LINE & HYDRANT (200 LF-tap 6")	1.0	LS	\$20,000.00	\$20,000.00
17	2" WATER SERVICE (700LF-tap 6")	1.0	LS	\$15,000.00	\$15,000.00
18	ELECTRICAL SERVICE	1.0	LS	\$10,000.00	\$10,000.00
19	METAL HALIDE / Glare Control Sports Lighting	5.0	EA	\$90,000.00	\$450,000.00
20	LATERAL SANITARY SEWER SYSTEM (Allowance)	1.0	LS	\$75,000.00	\$75,000.00
PARKING LOT AND AREA LIGHTING BY LOCAL POWER COMPANY					
Misc.					
21	DESTINATION PLAYGROUND	1.0	LS	\$400,000.00	\$400,000.00
22	LANDSCAPING/ TREES (allowance)	1.0	LS	\$100,000.00	\$100,000.00
23	BLEACHERS & PAD (10 locations)	10.0	SET	\$4,000.00	\$40,000.00
24	BATTING CAGES (2)	2.0	EA	\$10,000.00	\$20,000.00
25	GATEWAY / ENTRY STRUCTURES	4.0	EA	\$25,000.00	\$100,000.00
26	SITE AMENITIES (field team bench+ trash recept)	5.0	SET	\$1,000.00	\$5,000.00
27	SITE AMENITIES (tables at shelters)	50.0	EA	\$700.00	\$35,000.00
28	SITE AMENITIES (grills+ trash recept at shelters/ picnic sites)	10.0	SET	\$750.00	\$7,500.00
29	SITE AMENITIES (misc allowance- flagpoles/ bollards, etc)	1.0	LS	\$10,000.00	\$10,000.00
30	OVERFLOW PARKING AREA (gravel aisles)	4,000.0	SY	\$8.00	\$32,000.00
31	MAINTENANCE FACILITY ALLOWANCE	1.0	LS	\$300,000.00	\$300,000.00
SUB TOTAL (Construction/Hard Cost)					\$5,669,500.00
Mobilization + Gen Conditions + Bond etc (5%)					\$283,475.00
ESTIMATING CONTINGENCY 15%					\$850,425.00
PROJECTED CONSTRUCTION COST					\$6,803,400.00
Park Road (Built to Municipal Standards)					
1	CLEARING	2.00	AC	\$5,000.00	\$10,000.00
2	EARTHWORK	50,000.0	CY	\$4.00	\$200,000.00
3	EROSION CONTROL	1.0	LS	\$25,000.00	\$25,000.00
4	STORM DRAINAGE	1.0	LS	\$100,000.00	\$100,000.00
5	STORM DETENTION	1.0	LS	\$50,000.00	\$50,000.00
6	GENERAL SEEDING	5.0	AC	\$5,000.00	\$25,000.00
7	CONCRETE SIDEWALK (allowance)	1.0	LS	\$75,000.00	\$75,000.00
8	ENTRANCE GATES / DEMO ON BROADWAY STREET	1.0	EA	\$25,000.00	\$25,000.00
9	WAYFINDING / MAIN SIGNAGE	1.0	LS	\$50,000.00	\$50,000.00
10	ASPHALT ROAD	11,000.0	SY	\$22.50	\$247,500.00
11	CONCRETE CURB & GUTTER	7,800.0	LF	\$17.00	\$132,600.00
12	SANITARY SEWER MAINLINE	1.0	LS	\$110,000.00	\$110,000.00
13	SANITARY SEWER PUMP STATION	1.0	LS	\$75,000.00	\$75,000.00
14	6" MAIN WATERLINE	1.0	LS	\$140,000.00	\$140,000.00
SUB TOTAL (Construction/Hard Cost)					\$1,265,100.00
Mobilization + Gen Conditions + Bond etc (5%)					\$63,255.00
ESTIMATING CONTINGENCY 15%					\$189,765.00
PROJECTED CONSTRUCTION COST					\$1,518,120.00
Trails, Passive Recreation Amenities and Misc.					
1	CLEARING	2.00	AC	\$5,000.00	\$10,000.00
2	TRAIL SYSTEM (natural surface- +/- 7000 LF)	8,000.0	SY	\$12.00	\$96,000.00
3	BOARDWALK / PED BRIDGE ALLOWANCE	1.0	EA	\$50,000.00	\$50,000.00
4	HORSESHOE	4.0	EA	\$2,000.00	\$8,000.00
5	VOLLEYBALL COURTS	4.0	EA	\$15,000.00	\$60,000.00
6	DISC GOLF	1.0	LS	\$50,000.00	\$50,000.00
7	ROADSIDE PAVILION W/ RR	1.0	EA	\$200,000.00	\$200,000.00
8	UTILITIES (allowance)	1.0	LS	\$25,000.00	\$25,000.00
9	ASPHALT PARKING LOT (allowance)	1.0	LS	\$75,000.00	\$75,000.00

10	LANDSCAPING/ GRASS SEEDING (allowance)	1.0	LS	\$100,000.00	\$100,000.00
SUB TOTAL (Construction/Hard Cost)					\$674,000.00
Mobilization + Gen Conditions + Bond etc (5%)					\$33,700.00
ESTIMATING CONTINGENCY 15%					\$101,100.00
PROJECTED CONSTRUCTION COST					\$808,800.00

PROJECTED TOTAL CONSTRUCTION COST					\$17,733,720.00
soft costs (20%)					\$3,546,744.00

TOTAL \$21,280,464.00

* other services that maybe required (ie. light/ turnlanes) and are not represented include NCDOT road improvement costs along Broadway Street. Another item is add't bio retention/ storm water related costs that the City/ county may further require.



Committed Today for a Better Tomorrow



Market Analysis & Feasibility Study For a Multi-Sport / Event Complex

Presentation of Findings | June 30, 2015



programmanagers.com

 BRAILSFORD & DUNLAVEY

AGENDA

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



- ◆ Welcome
- ◆ Strategic Vision for Facility
- ◆ Summary of Key Findings
- ◆ Discussion of Detailed Findings
 - *Competitive Position*
 - *Potential Economic Impact of Facility*
 - *Financial Operating Assessment*
 - *Community Survey Analysis*
 - *Site Capacity (O.T. Sloan)*
- ◆ Next Steps
- ◆ Wrap-up

PLANNING PROCESS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- ◆ Strategic Visioning
- ◆ Tour of Recreation Assets
- ◆ Focus Groups
- ◆ Community Survey
 - 974 respondents
 - 3.14% margin of error at 95% interval
- ◆ Local Area Resource Analysis
- ◆ Peer Benchmarking
- ◆ Market Analysis
- ◆ Detailed Demand
- ◆ Economic Impact Modeling
- ◆ Financial Operating Assessment
- ◆ Site Analysis (Woolpert)
- ◆ **Presentation of Findings**
- ◆ Final Memorandum

Interviews Conducted

North Carolina USA Gymnastics:

State Chair

North Carolina AAU Basketball:

District Director

National Travel Basketball:

President

U.S. Youth Soccer:

Director of Operations

North Carolina Youth Soccer:

Executive Director

Top Gun Baseball:

President and CEO

North Carolina USSSA Softball:

Director

US Lacrosse, Eastern NC Chapter:

President

STRATEGIC PRIORITIES

STRATEGIC VISION

- ❖ *Elevate the athletics experience to recruit and retain businesses and families*
- ❖ *Generate economic activity by drawing visitors to the community*
- ❖ *Deliver a first-class facility in terms of quality*
- ❖ *Maximize value of community investment*

KEY QUESTIONS BASED ON VISION

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- 1) Are the community's needs and preferences aligned with the vision?
- 2) Is there an external market opportunity?
- 3) What will be the economic impact?
- 4) Will the facility be financially self-supporting?
- 5) Can the vision-driven solution be realized at O.T. Sloan?

SUMMARY OF KEY FINDINGS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- 1) The community supports the City/County's vision and quality-of-life goals
- 2) The external market is highly competitive
- 3) An opportunity exists to create significant economic activity through a sports facility
- 4) Additional resources will be required to operate as a stand-alone facility
- 5) The O.T. Sloan site has limited ability to achieve the City/County vision

SUMMARY OF FINDINGS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

	Rectangles	Diamonds	Indoor
Vision-Based Program	6 natural grass 2 synthetic	5 natural grass 300', Skinned	4-court with Multi-purpose Room
Local Community Need	1st 3rd	3rd 1st	2nd 2nd
Market Opportunity			
Total Cost (2018 dollars)	\$10,410,000	\$4,550,000	\$12,230,000
Minimum Land Requirement	60 acres	15 acres	5 acres
Land Cost	N/A	N/A	N/A
Tournaments	8	28	20
Total Visitors	12,670	9,430	14,690
Hotel Room Nights	5,070	2,580	4,010
Recurring Economic Activity	\$1,353,000	\$732,000	\$1,109,000
Potential Annual Revenues	\$205,000	\$121,000	\$161,000
Annual Operating Expenses	\$387,400	\$244,680	\$369,880
Operational Deficit	-\$182,400	-\$123,680	-\$208,880

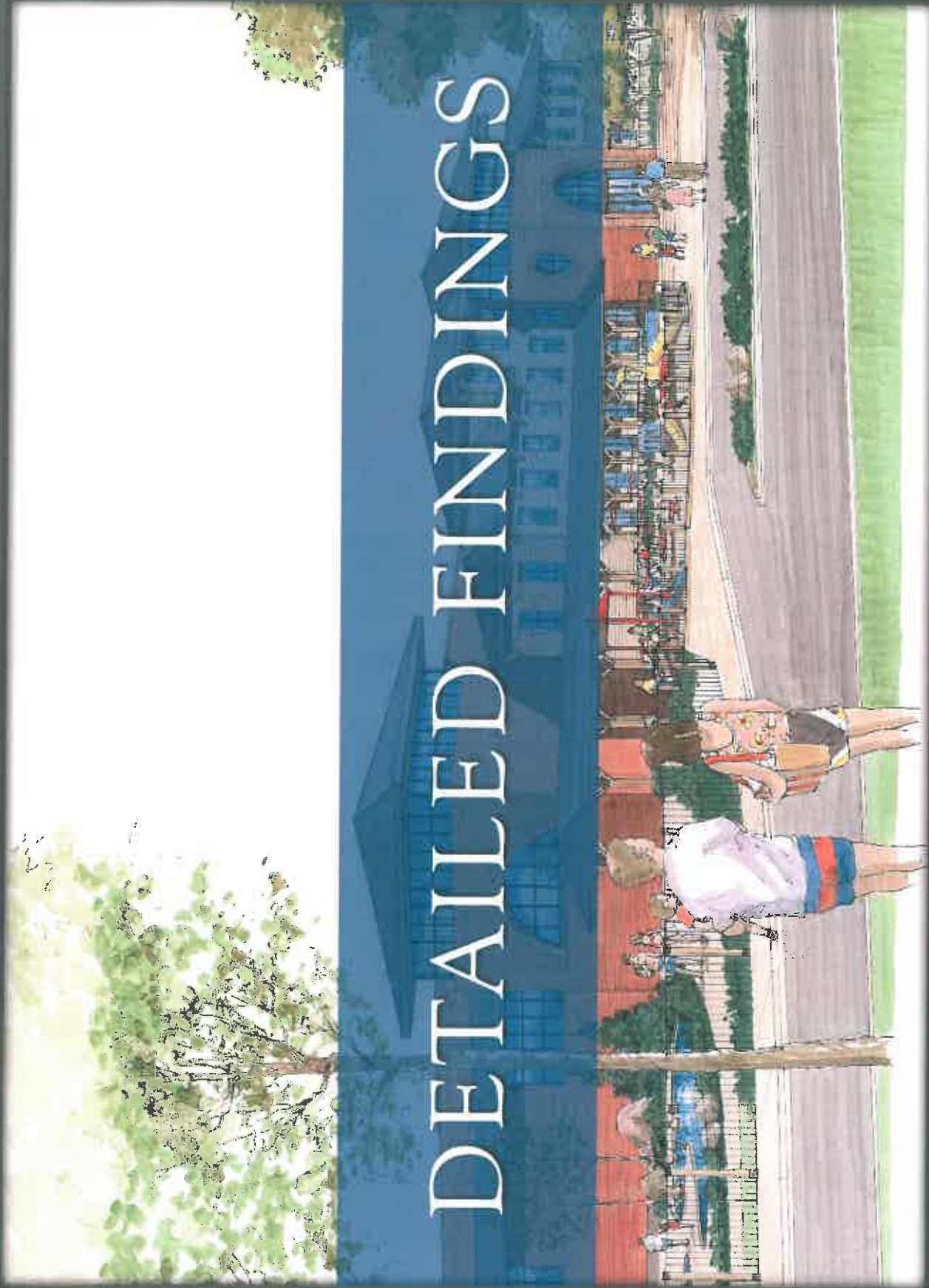
*Operating Expenses category does not include a debt service payment

OUTDOOR FACILITY PROFILE

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

	Rectangles	Diamonds	Outdoor Phase
Vision-Based Program	5 natural grass 2 synthetic	5 natural grass 300' Skinned	-
Local Community Need	1st 3rd	3rd 1st	
Market Opportunity			
Total Cost (2018 dollars)	\$10,410,000	\$4,550,000	\$14,700,000
Minimum Land Requirement	60 acres	15 acres	75 acres
Land Cost	N/A	N/A	N/A
Tournaments	8	28	36
Total Visitors	12,670	9,430	22,100
Hotel Room Nights	5,070	2,530	7,650
Recurring Economic Activity	\$1,353,000	\$732,000	\$2,051,000
Potential Annual Revenues	\$205,000	\$121,000	\$297,000
Annual Operating Expenses	\$387,400	\$244,680	\$607,160
Operational Deficit	-\$182,400	-\$123,680	-\$310,160

*Operating Expenses category does not include a debt service payment



DETAILED FINDINGS

Sanford – Lee Multi-sport Complex Feasibility Study

 BRAILSFORD & DUNLAVEY

SUMMARY OF KEY FINDINGS

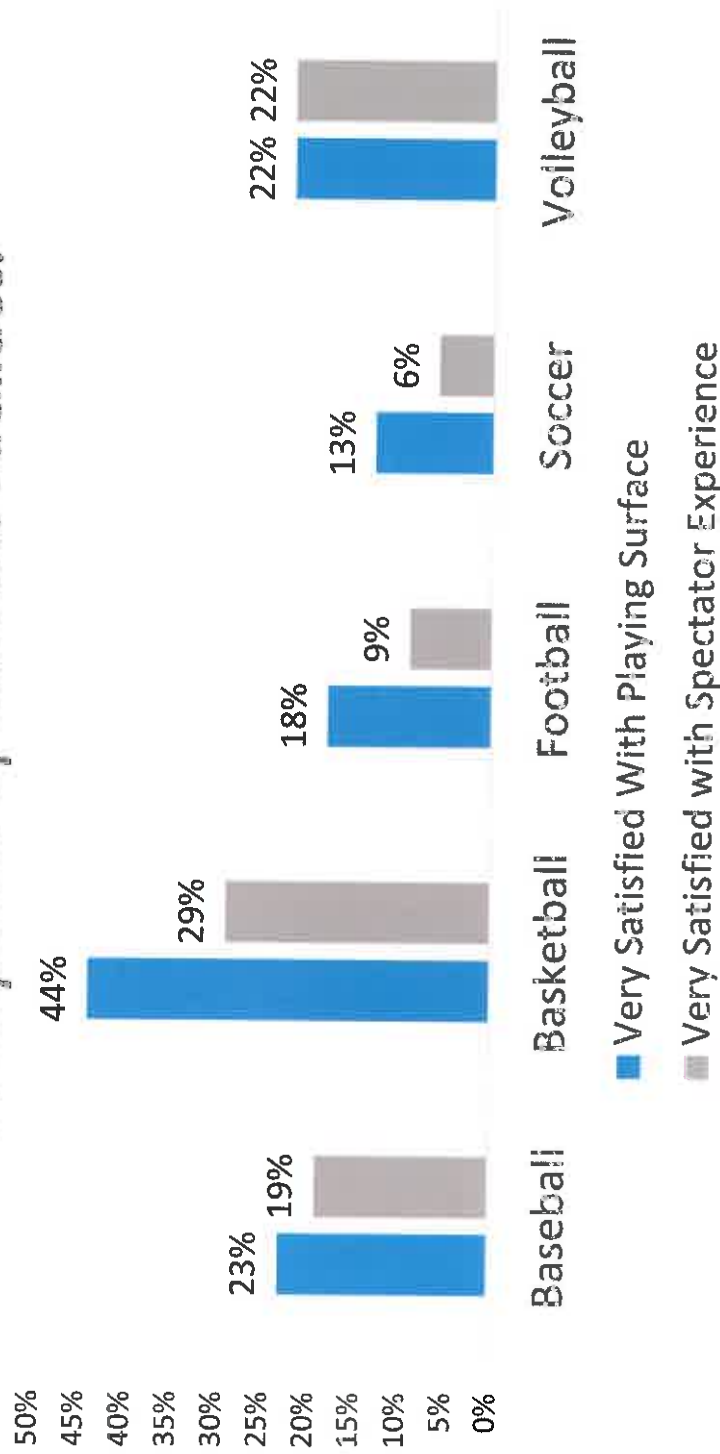
SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- 1) The community supports the City/County's vision and quality-of-life goals
- 2) The market is highly competitive
- 3) An opportunity exists to create significant economic activity through a sports facility
- 4) Additional resources will be required to operate as a stand-alone facility
- 5) The O.T. Sloan site has limited ability to achieve the community's vision

EXISTING CONDITIONS

SURVEY ANALYSIS

Perceptions of Current Facilities:

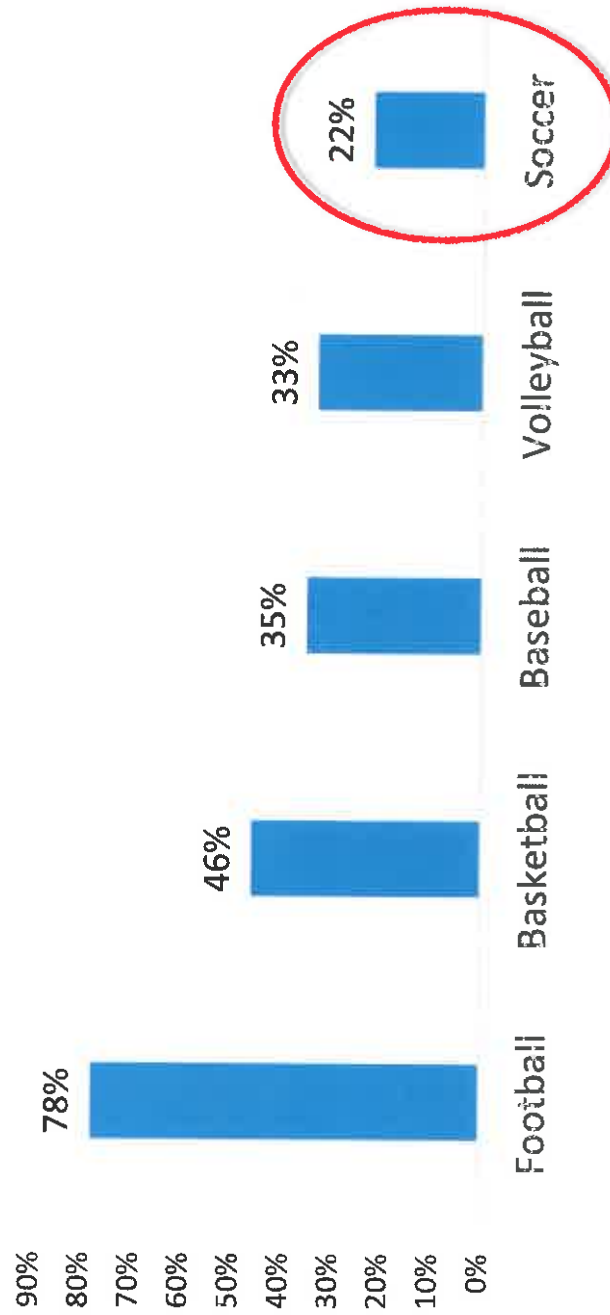


A substantial gap exists between City/County vision for facilities and perceptions of current users

EXISTING CONDITIONS

SURVEY ANALYSIS

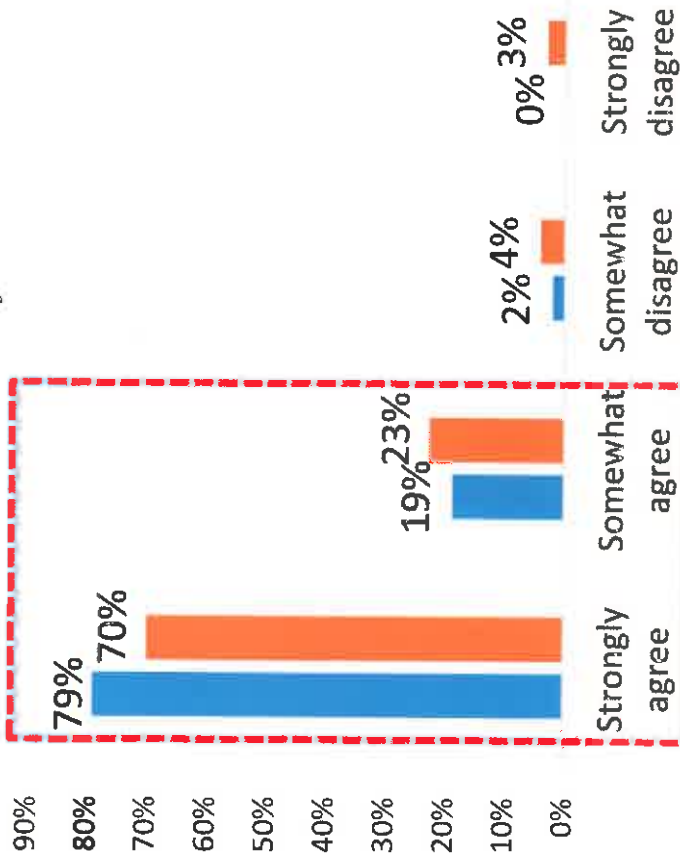
Perceptions of Current Facilities Compared With Other Communities:



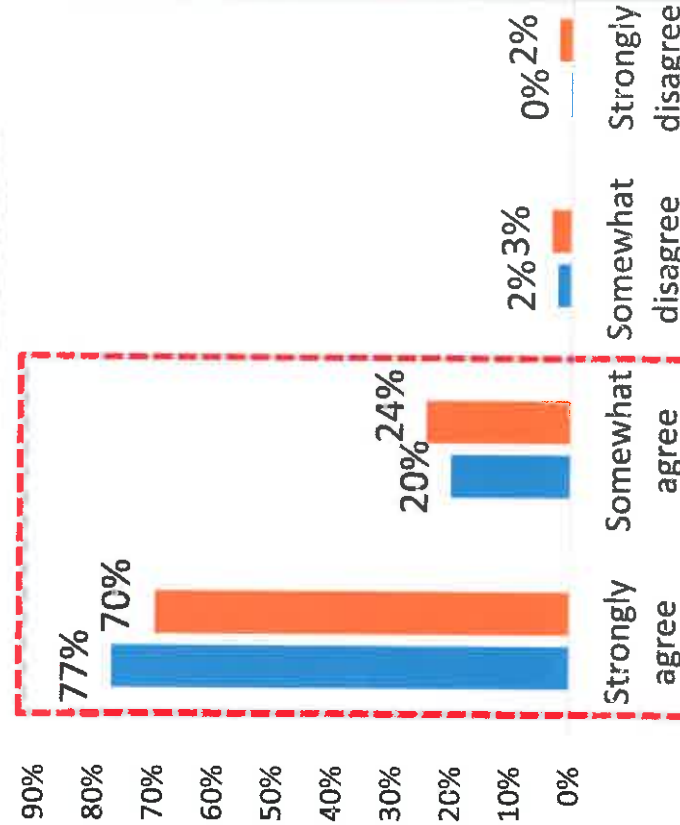
IMPORTANCE OF RECREATION

SURVEY ANALYSIS

To Economic Development:



To Resident Recruitment:



■ Child Plays Youth Sports ■ General Public

The community views improved facilities as a priority regardless of their level of involvement

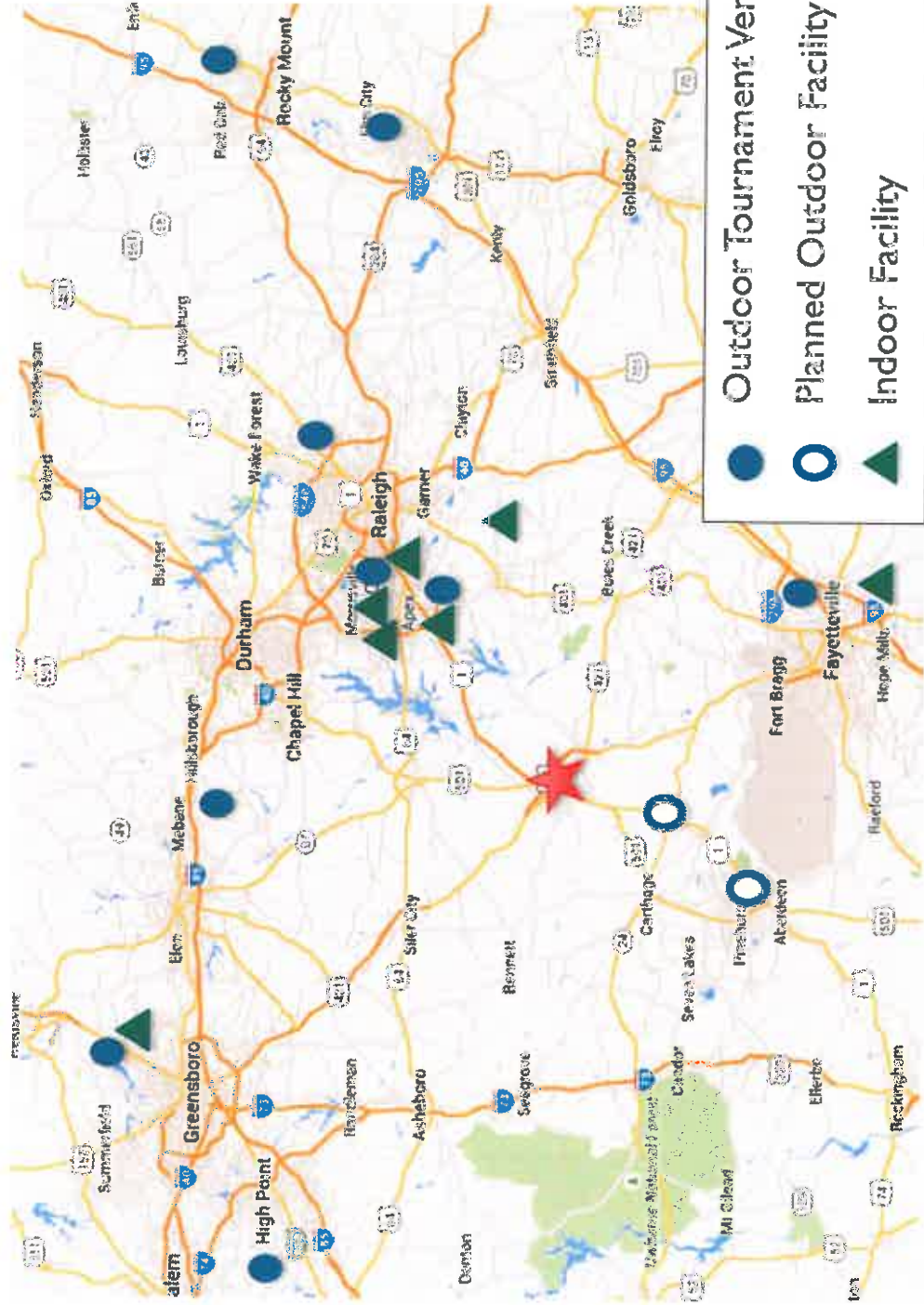
SUMMARY OF KEY FINDINGS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- 1) The community supports the City/County's vision and quality-of-life goals
- 2) The market is highly competitive
- 3) An opportunity exists to create significant economic activity through a sports facility
- 4) Additional resources will be required to operate as a stand-alone facility
- 5) The O.T. Sloan site has limited ability to achieve the community's vision

MARKET POSITION

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



COMPETITIVE MARKET POSITION

MARKET PROFILE

Complex	City	Acreage	Total		Synthetic		Local Hotel Rooms (20 mile radius)
			Rectangles	Diamonds	Rectangles	Diamonds	
WakeMed Soccer Park	Cary, NC	150	8	0	3	0	14,601
WRAL Soccer Center	Raleigh, NC	94	25	0	2	0	11,160
Bryan Park Soccer Complex	Summit, NC	68	17	0	0	0	7,161
BB&T Soccer Park	Advance, NC	69	13	0	0	0	4,013
Jordan Athletic Complex	Fayetteville, NC	39	8	0	0	0	3,999
Rocky Mount Sports Complex	Rocky Mount, NC	143	8	6	0	0	2,976
Gillette Park	Wilson, NC	113	8	2	0	0	2,325
Aberdeen (potential)	Aberdeen, NC	60	6	4	2	0	1,209
Cameron (potential)	Cameron, NC	-	14	0	3	0	279
Sanford/Lee (potential)	Sanford, NC	-	8	5	2	0	585

A minimum of 2,000 hotel rooms are required to compete for regional and national tournaments

HOTEL CAPACITY

MARKET PROFILE

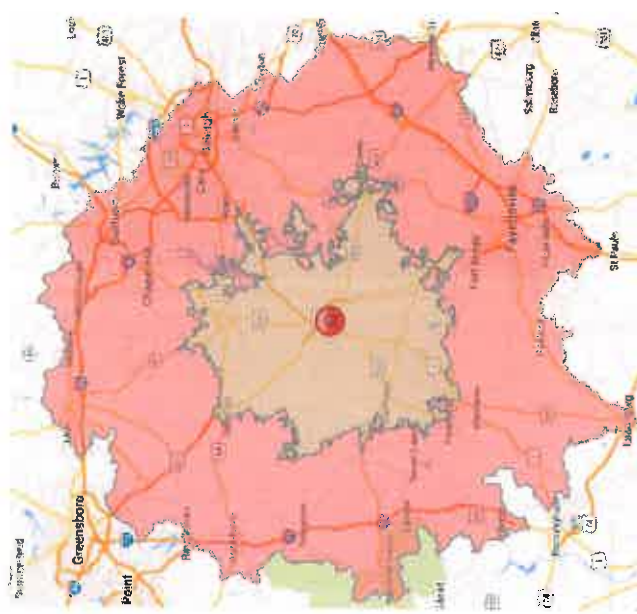
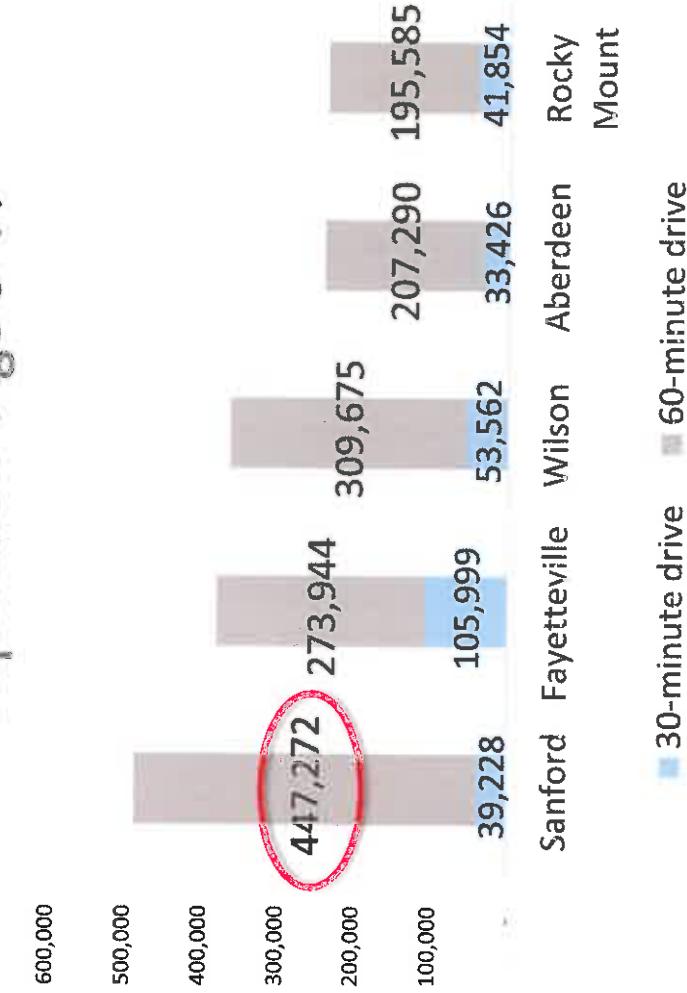
Complex	City	Total			Local Hotel Rooms (20 mile radius)	
		Acreage	Rectangles	Synthetic Rectangles		
WakeMed Soccer Park	Cary, NC	150	8	3	0	14,601
WRAL Soccer Center	Raleigh, NC	94	25	2	0	11,160
Bryan Park Soccer Complex	Summit, NC	68	17	0	0	7,161
BB&T Soccer Park	Advance, NC	69	13	0	0	4,013
Jordan Athletic Complex	Fayetteville, NC	39	8	0	0	3,999
Rocky Mount Sports Complex	Rocky Mount, NC	143	8	0	6	2,976
Gillette Park	Wilson, NC	113	8	0	2	2,325
Aberdeen (potential)	Aberdeen, NC	60	6	2	4	1,209
Cameron (potential)	Cameron, NC	-	14	3		279
Sanford/Lee (potential)	Sanford, NC		8	2	5	585

Sanford's current hotel capacity is at a competitive disadvantage relative to core competition

DRIVE-TIME ANALYSIS

MARKET PROFILE

Population- Age 5-19



Sanford's proximity to major metros provides excellent mid-range access to target population

SUMMARY OF KEY FINDINGS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- 1) The community supports the City/County's vision and quality-of-life goals
- 2) The market is highly competitive
- 3) An opportunity exists to create significant economic activity through a sports facility
- 4) Additional resources will be required to operate as a stand-alone facility
- 5) The O.T. Sloan site has limited ability to achieve the community's vision

TOURNAMENT DEMAND

ECONOMIC IMPACT ANALYSIS

Projected Annual Tournament Demand

	Number of Tournaments		
	Conservative	Moderate	Aggressive
Rectangles (multi-day)	2	3	4
Rectangles (single-day)	4	5	6
Diamonds	26	28	30
Indoor	18	20	22



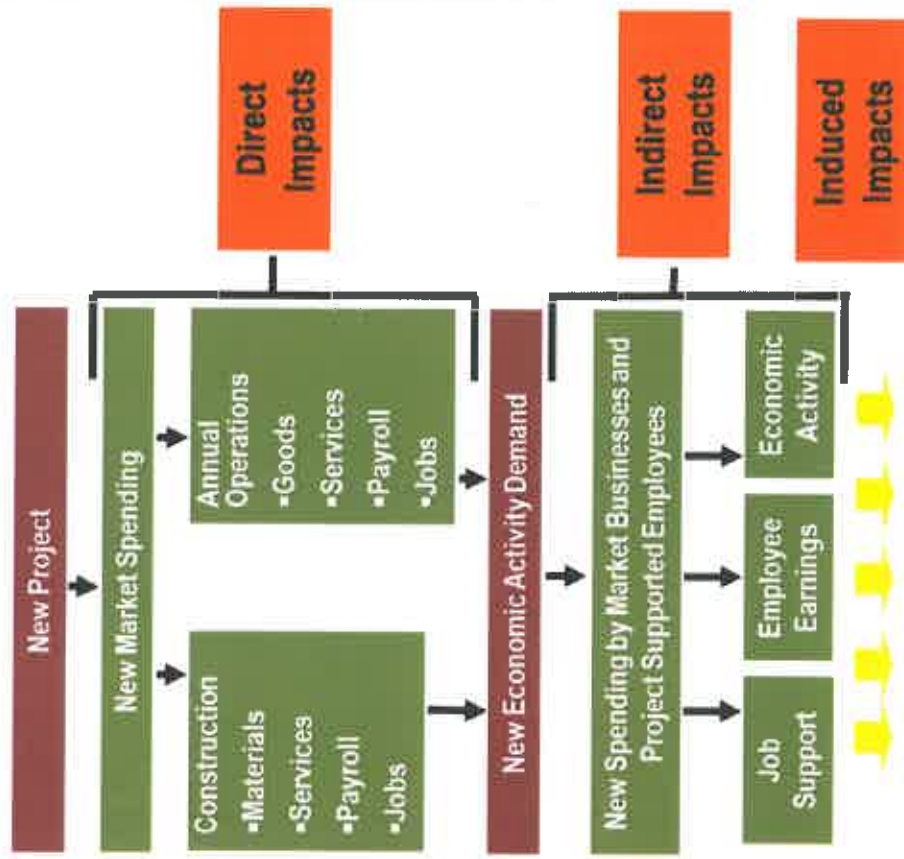
An outdoor multi-sport facility is projected to draw ~35 state-level tournaments based on moderate assumptions

ECONOMIC IMPACT ANALYSIS

OVERVIEW

◆ RIMS II Introduction:

Bureau of Economic Analysis (BEA) of the U.S. Department of Commerce has developed the Regional Input-Output Modeling System, Version II (RIMS II), which is intended to calculate the total regional effects on industrial output, personal earnings, and employment for particular regions in the United States resulting from specific enterprise or industry activities. In using preliminary project and operating cost assumptions, the following are estimated non-recurring and recurring economic impacts within Lee County.



PROJECTED ECONOMIC IMPACT

ECONOMIC IMPACT ANALYSIS

Non-Recurring Economic Impact (One-Year Period)

	Construction Impacts	Outdoor Phase
Project Cost Assumption		\$14,700,000
Economic Activity		\$2,371,360
Total Associated Earnings		\$1,858,786
Jobs Supported		54
Annual Salary (per FTE)		\$34,452

Recurring Economic Impact (Annual)

	Recurring Impacts	Outdoor Phase
From Facility Operations		\$341,000
From Hotel Spending		\$847,000
From Food & Beverage Spending		\$863,000
Total Recurring Economic Activity		\$2,051,000
Jobs Supported		11

PROJECTED ECONOMIC IMPACT

ECONOMIC IMPACT ANALYSIS

Non-Recurring Economic Impact (One-Year Period)

Construction Impacts	Outdoor Phase
Project Cost Assumption	\$14,700,000
Economic Activity	\$2,371,360
Total Associated Earnings	\$1,858,786
Jobs Supported	54
Annual Salary (per FTE)	\$34,452

Recurring Economic Impact (Annual)

Recurring Impacts	Outdoor Phase
From Facility Operations	\$341,000
From Hotel Spending	\$847,000
From Food & Beverage Spending	\$863,000
Total Recurring Economic Activity	\$2,051,000
Jobs Supported	11

SUMMARY OF KEY FINDINGS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- 1) The community supports the City/County's vision and quality-of-life goals
- 2) The market is highly competitive
- 3) An opportunity exists to create significant economic activity through a sports facility
- 4) Additional resources will be required to operate as a stand-alone facility
- 5) The O.T. Sloan site has limited ability to achieve the community's vision

OPERATING EXPENSE PROJECTIONS

FACILITY OPERATIONS

Expense Item	2018
Personnel	\$ 185,300
Utilities	\$ 46,900
General & Admin	\$ 27,000
Insurance	\$ 18,000
Advertising	\$ 30,000
Clubhouse Maintenance	\$ 6,000
Field Maintenance	\$ 211,000
Sub-Total	\$524,000
Replacement Reserves	\$ 23,760
Turf Replacement Reserve	\$ 59,400
Total Expenditures	\$607,160

Personnel and Field Maintenance costs are projected to comprise ~75% of operating costs

TOURNAMENT REVENUE

FACILITY OPERATIONS

Tournament Revenue= \$59,400

Concession Income= \$24,800

Revenue from Tournaments= \$84,200

Less Annual Expenses= \$607,160

Initial Funding Gap= \$522,960

Revenues from rental fees and concessions will have a limited impact on closing the initial funding gap

ADVERTISING REVENUE

FACILITY OPERATIONS

Advertising/Sponsorship

2018

	Offer Price	Probability	
Naming Rights	\$ 100,000	10%	\$ 10,000
Clubhouse	\$ 25,000	50%	\$ 12,500
Field Complex	\$ 25,000	50%	\$ 12,500
Diamond Complex	\$ 25,000	50%	\$ 12,500
Diamond Scoreboards	\$ 7,500	25%	\$ 1,875
Field Scoreboards	\$ 7,500	25%	\$ 1,875
Pavilion	\$ 7,500	10%	\$ 750
Total Advertising/Sponsorship Income			\$ 52,000

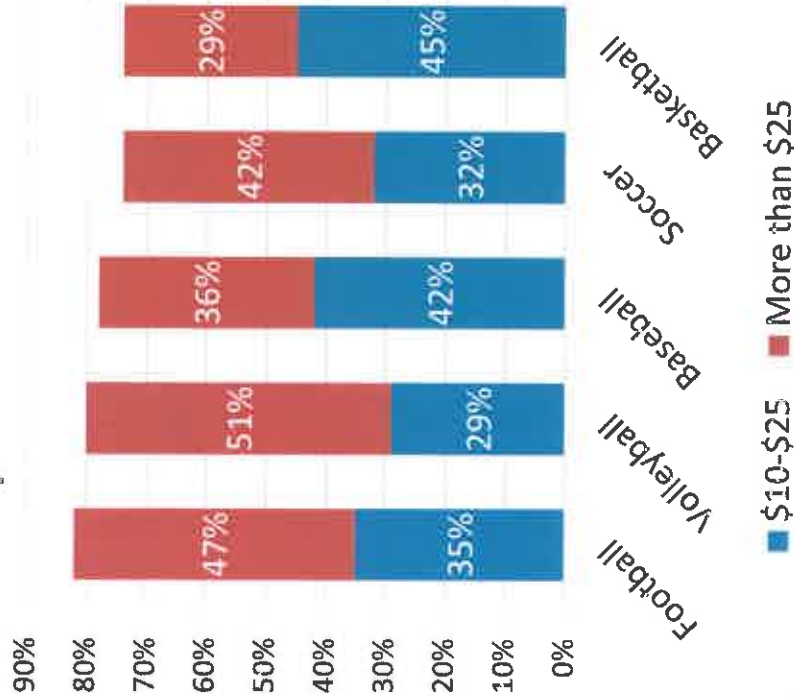
Local employers and potential donors should be targeted early in planning process

REVENUE FROM PARTICIPANTS

FACILITY OPERATIONS

- ◆ Lee County registration fees are \$23 lower per person than benchmark set of nearby communities*
- ◆ Families surveyed expressed strong willingness to pay higher registration fees with improved facilities
- ◆ Model assumes \$10 increase for all users, plus additional \$15 increase for potential users of new facility

Amount Willing to Pay for Improved Facilities



*Includes Wilson, Rocky Mount, Cary, and Holly Springs

LOCAL FACILITY RENT REVENUE

FACILITY OPERATIONS

- ◆ Synthetic fields should be marketed on per hour basis to local groups
 - Club teams (e.g., SASL) ➢ High schools
 - Competitive teams ➢ Increment weather alternative
 - Skill camps
- ◆ Conservative rate assumptions should be applied
 - ~1,000 rental hours assumed annually

Synthetic Rent Rates vs. Sanford/Lee

Facility	Location	Synthetic Rate (per field per hour)	Night Rate
Smith River Sports Complex	Martinsville, VA	\$75	\$100
Manchester Meadows	Rock Hill, SC	\$150	\$150
WakeMed Soccer Park	Cary, NC	\$125	\$165
Hampton Roads Complex	Virginia Beach, VA	\$200	\$212
Average		\$138	\$157
Sanford/Lee (proposed)	Sanford, NC	\$75	\$100

TOURNAMENT REVENUE

FACILITY OPERATIONS

Funding Gap (tournament rev only) = \$522,960

Advertising Income = \$52,000

Facilities Improvement Revenue = \$51,700

Local Facility Rental = \$108,800

Funding Gap Remaining = \$310,460

Additional levers (e.g. donations, tax revenues)
will be required to eliminate funding gap

SUMMARY OF KEY FINDINGS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

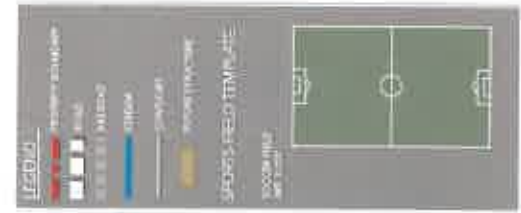
- 1) The community supports the City/County's vision and quality-of-life goals
- 2) The market is highly competitive
- 3) An opportunity exists to create significant economic activity through a sports facility
- 4) Additional resources will be required to operate as a stand-alone facility
- 5) The O.T. Sloan site has limited ability to achieve the community's vision

O.T. SLOAN SITE ANALYSIS- WOOLPERT

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- ◆ Excellent access from main thoroughfare
- ◆ ~42 acres of developable land
 - Phase I will not fit site
- ◆ Topography issues will add significant cost
- ◆ Removal of existing buildings, trees/woodlands





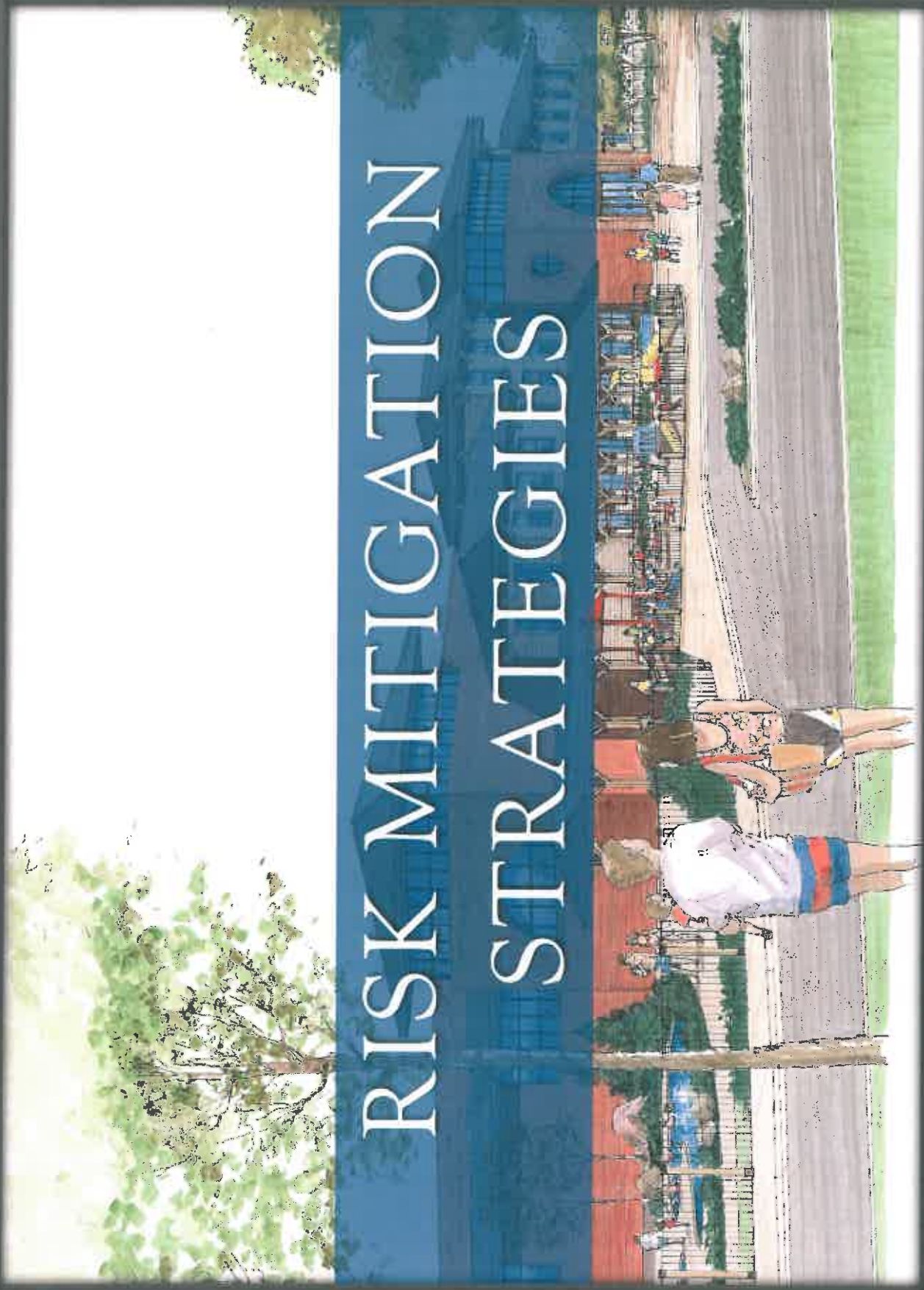
Vision-based
program
does not fit
on O.T. Sloan
site



SUMMARY OF KEY FINDINGS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- 1) The community supports the City/County's vision and quality-of-life goals
- 2) The market is highly competitive
- 3) An opportunity exists to create significant economic activity through a sports facility
- 4) Additional resources will be required to operate as a stand-alone facility
- 5) The O.T. Sloan site has limited ability to achieve the community's vision



RISK MITIGATION STRATEGIES

Sanford - Lee Multi-sport Complex Feasibility Study

 BRAILSFORD & DUNLAVEY

RISK MITIGATION STRATEGIES

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- ◆ Leverage the facility to increase local participation and launch new sports
- ◆ Distinguish the facility to create a unique experience
- ◆ Identify an entrepreneurial and well-connected General Manager
- ◆ Pursue an onsite hotel development to increase marketability and as additional income source
 - ◆ *Hotel requires ~5 acres*

NATIONAL RESEARCH

RISK MITIGATION STRATEGIES

Sports Fitness & Industry Association Report

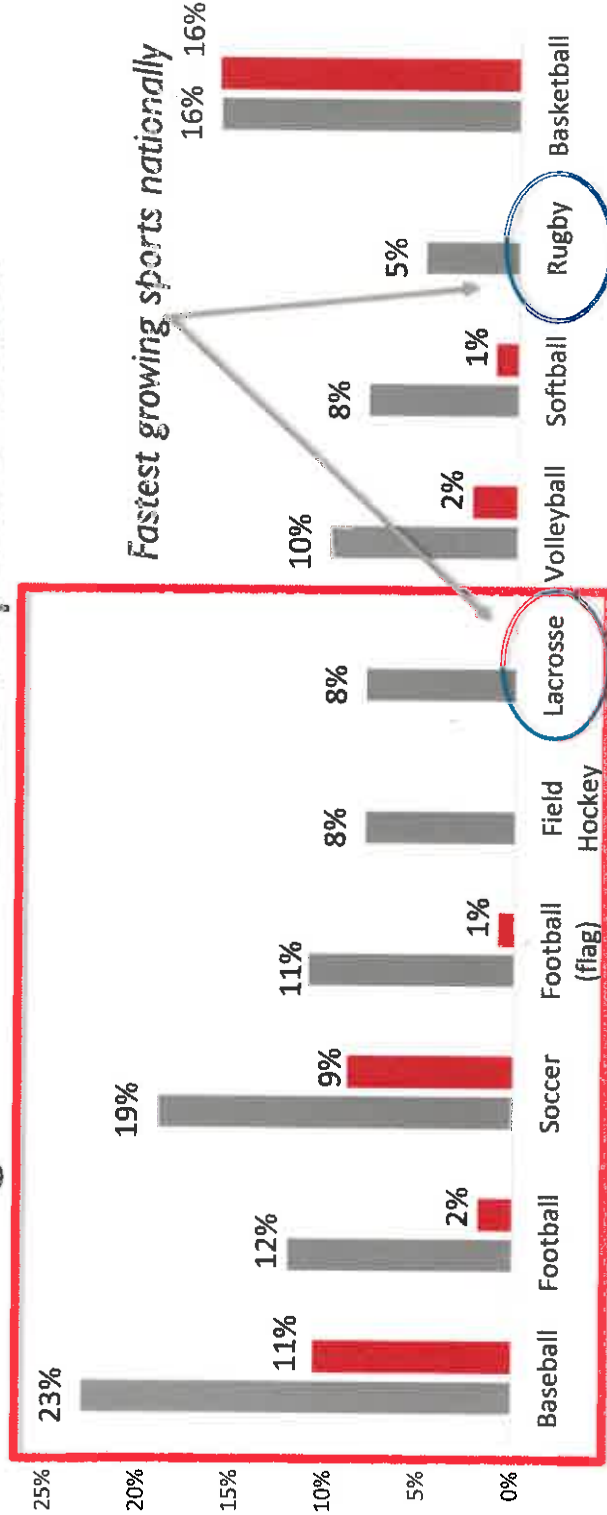
- ◆ 12,000 households surveyed
- ◆ Team sports participation rates by age, gender and activity
- ◆ Data for “core participation” representing frequent and regular users
- ◆ 5-year growth trends by sport



TEAM PARTICIPATION RATES

RISK MITIGATION STRATEGIES

Age 6-12 Team Participation Rates



■ National Team Participation Rate ■ Lee County Team Participation Rate

Latent demand for team sports exists in Lee County, especially with outdoor sports

RISK MITIGATION STRATEGIES

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- ◆ Leverage the facility to increase local participation and launch new sports
- ◆ Distinguish the facility to create a unique experience
- ◆ Identify an entrepreneurial and well-connected General Manager
- ◆ Pursue an onsite hotel development to increase marketability and provide additional income
 - ◆ *Hotel requires ~5 acres*

DISTINGUISHING FACILITY

RISK MITIGATION STRATEGIES

Spectator Experience



Tournament Experience



RISK MITIGATION STRATEGIES

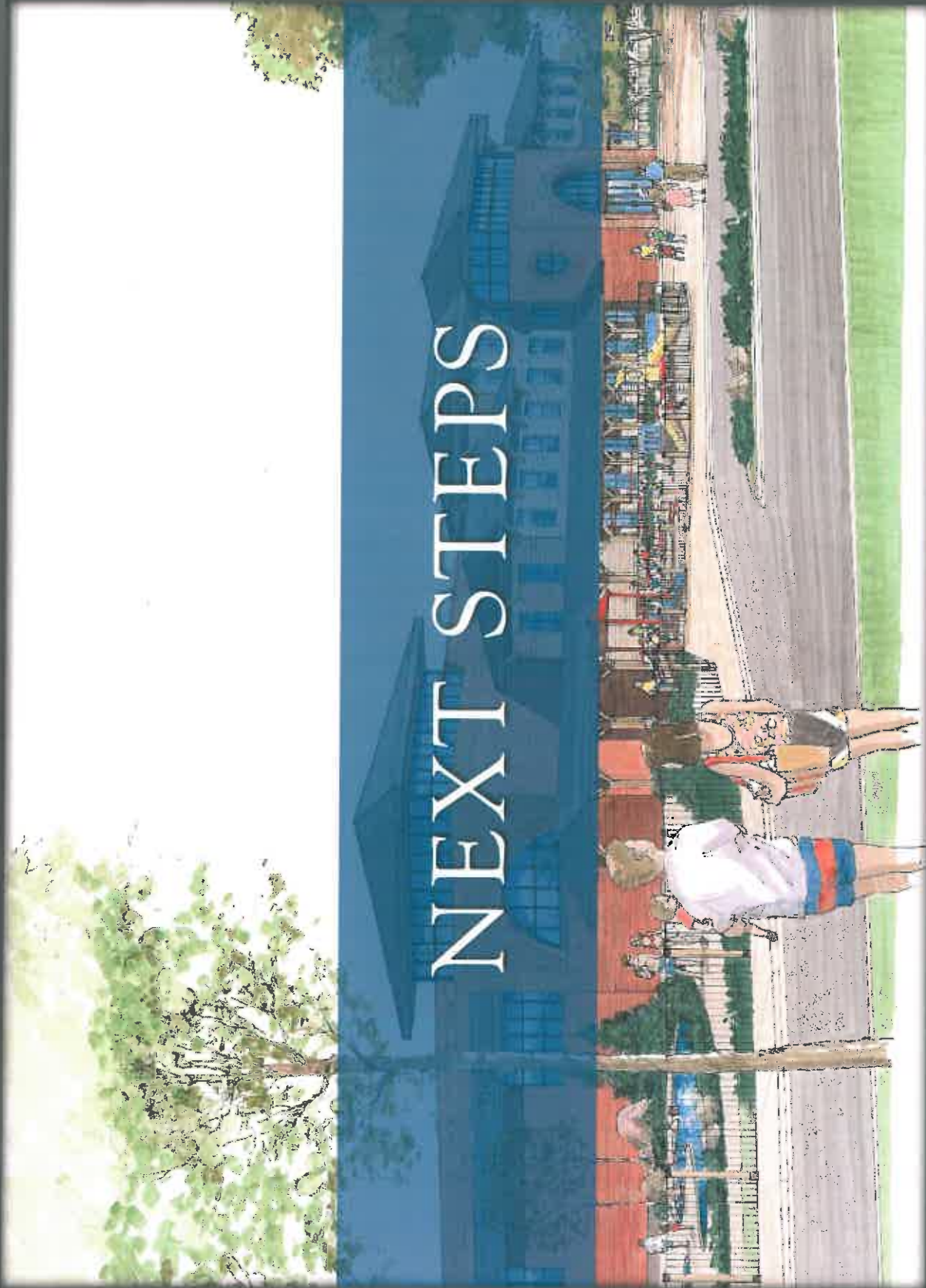
SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- ◆ Leverage the facility to increase local participation and launch new sports
- ◆ Distinguish the facility to create a unique experience
- ◆ Identify an entrepreneurial and well-connected General Manager
- ◆ Pursue an onsite hotel development to increase marketability and provide additional income
 - ◆ *Hotel requires ~5 acres*

RISK MITIGATION STRATEGIES

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- ◆ Leverage the facility to increase local participation and launch new sports
- ◆ Distinguish the facility to create a unique experience
- ◆ Identify an entrepreneurial and well-connected General Manager
- ◆ Pursue an onsite hotel development to increase marketability and provide additional income
 - ◆ Hotel requires ~5 acres



NEXT STEPS

Sanford – Lee Multi-sport Complex Feasibility Study

 BRAILSFORD & DUNLAVEY

NEXT STEPS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- ◆ Investigate site options for accommodating vision-based facility concept
 - *Minimum 70 acres*
 - *Ideally 100+ acres for future expansion*
- ◆ Evaluate and confirm potential revenue sources
 - *Private donations and/or hotel occupancy tax*
 - *Anchor tenant for weekday rentals*
 - *Advertising interest in local business community*
- ◆ Identify local stakeholders and take advantage of local/state resources for launching new sports
 - *Example: Eastern NC Chapter of US Lacrosse*
- ◆ Begin detailed pre-implementation planning for structuring, design, funding, operations, etc.

DISCUSSION



Committed Today for a Better Tomorrow



Market Analysis & Feasibility Study For a Multi-Sport / Event Complex

Presentation of Findings | June 30, 2015



SANFORD
NORTH CAROLINA

LEE COUNTY
NORTH CAROLINA

Committed Today for a Better Tomorrow



Multi-Sport / Event Complex- Site Analysis

October 27, 2015



 BRAILSFORD & DUNLAVEY

MARKET-DRIVEN PROGRAM

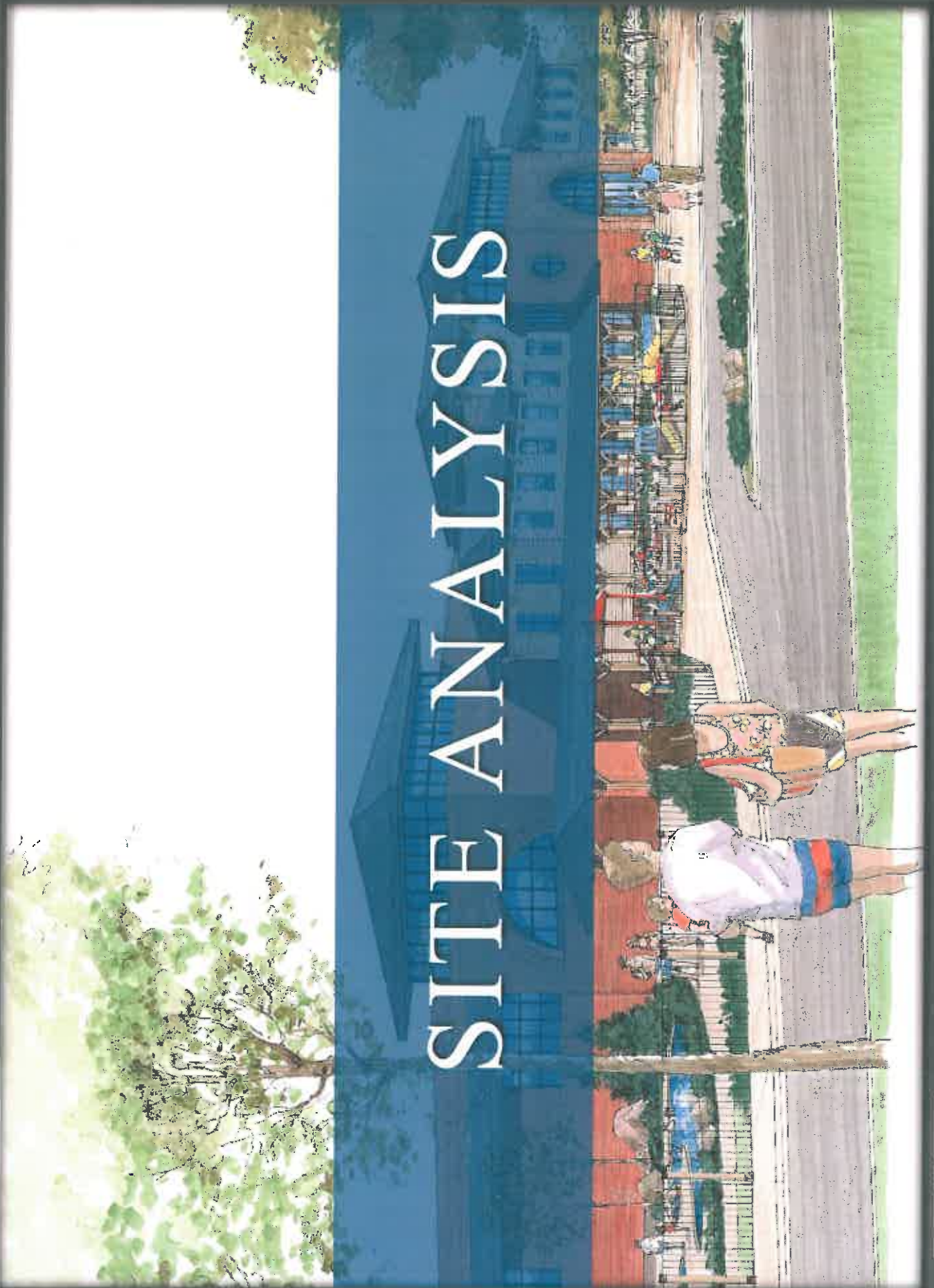
SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

◆ Outdoor Program

- Rectangles: 6 natural grass and 2 synthetic fields
- Diamonds: 5 natural grass fields (300', skinned)
- Minimum Land Requirement: ~75 acres
- Estimated Cost (2018): \$14.7 million
- Estimated Annual Impact: \$2.05 million

◆ Indoor Program

- Program: 4-court gymnasium (~45,000 square feet)
- Minimum Land Requirement: ~5-10 acres
- Estimated Cost: \$12.2 million
- Estimated Annual Impact: \$1.11 million



SITE LOCATION

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



LOCATION MAP

SITE COMPARISONS

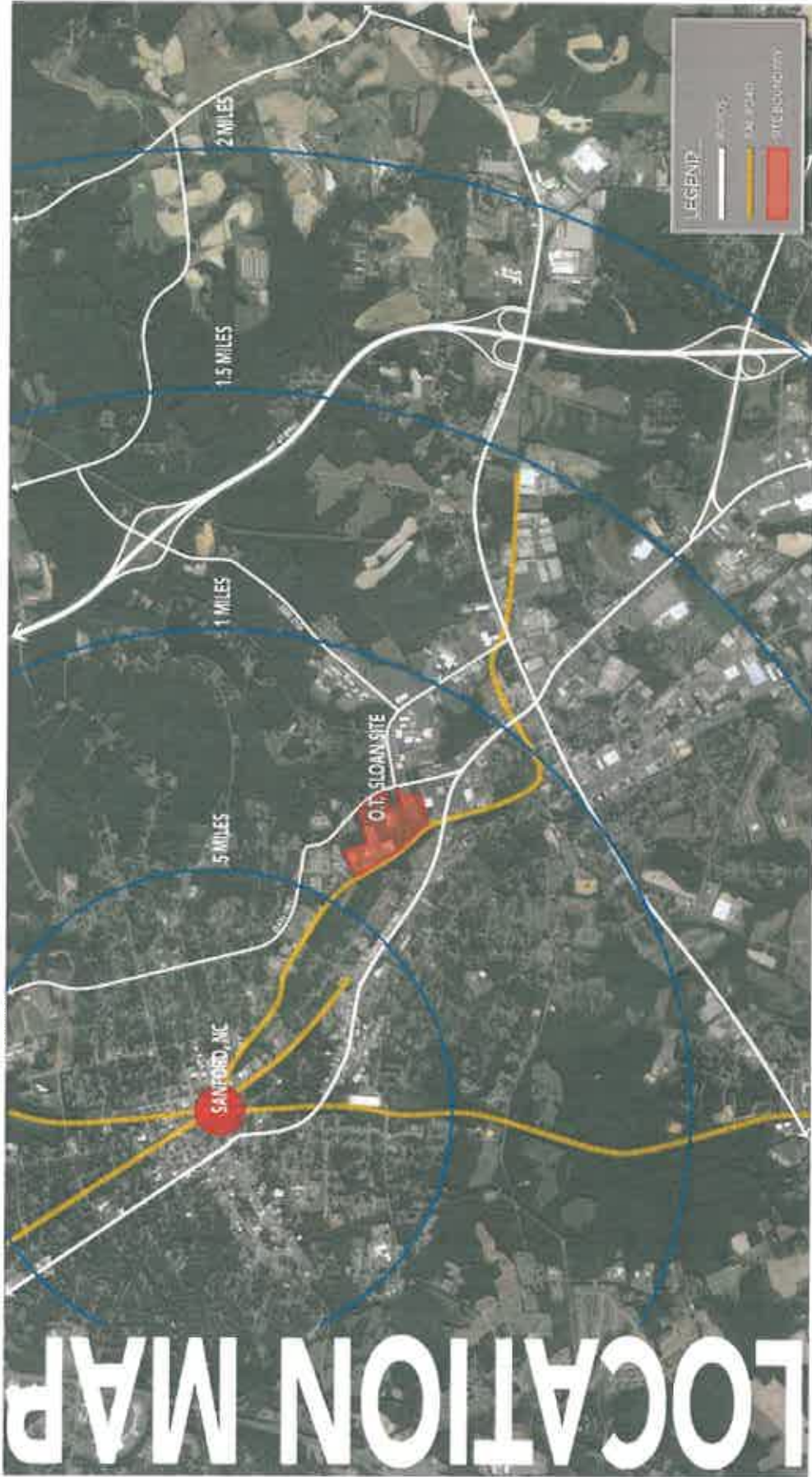
SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

TOTAL ACRES	HIGH DEVELOPABLE ACRES	MEDIUM DEVELOPABLE ACRES	LOW DEVELOPABLE ACRES	PERCENT OF HIGH DEVELOPMENT POTENTIAL OF TOTAL ACREAGE	SITE CAPACITY FOR OUTDOOR PROGRAM
42.37 AC	21.16 AC	15.86 AC	5.35 AC	50%	NO
130.03 AC	62.55 AC	38.50 AC	29.98 AC	47%	YES
132.83 AC	55.39 AC	16.37 AC	21.07 AC	71%	YES

SITE CAPACITY FOR INDOOR PROGRAM	SITE CAPACITY FOR BOTH OUTDOOR + INDOOR PROGRAMS	SITE SUPPORTS PASSIVE RECREATION	EASE OF ACCESS (H/M/L)	SLOPE CONSTRAINTS (H/M/L)	COST FOR DEVELOPMENT (H/M/L)
YES	NO	YES	M	M	M
YES	YES	YES	M	M	H
YES	YES	YES	H	L	L

SITE LOCATION

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



LOCATION MAP



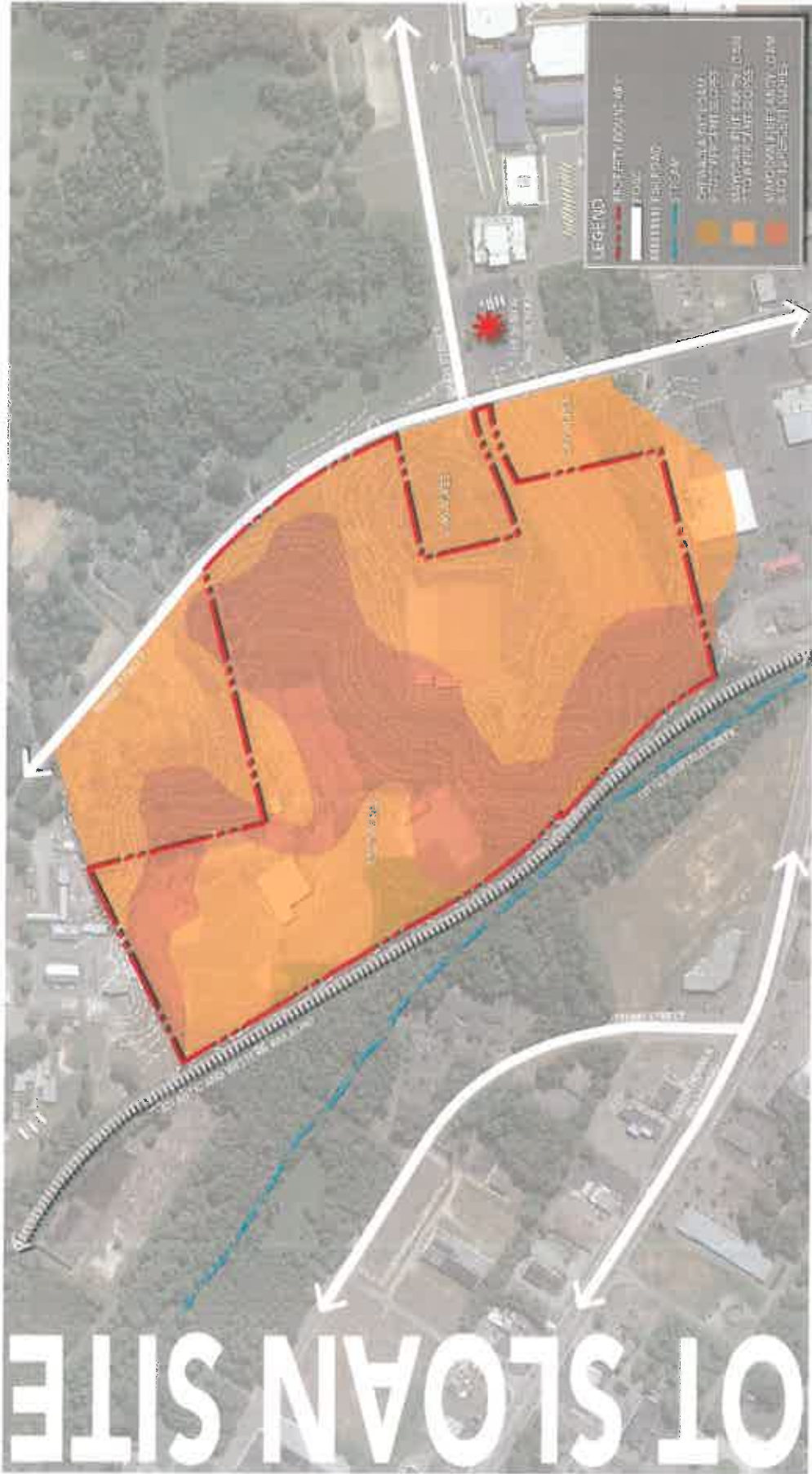
NATURAL FACTORS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



SOILS ANALYSIS MAP

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



OT SLOAN SITE

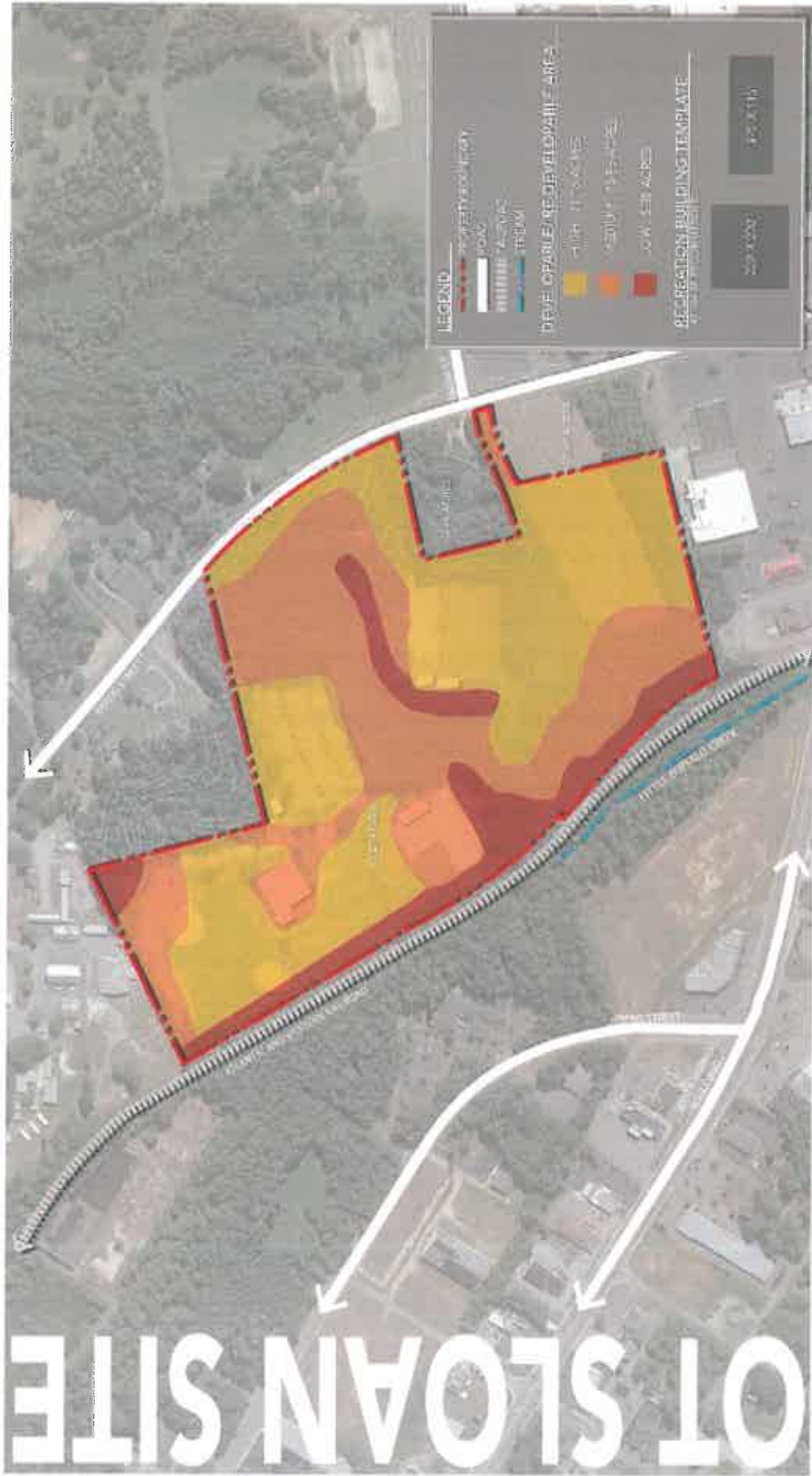
CULTURAL FACTORS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



SITE SUITABILITY

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



SITE LOCATION

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



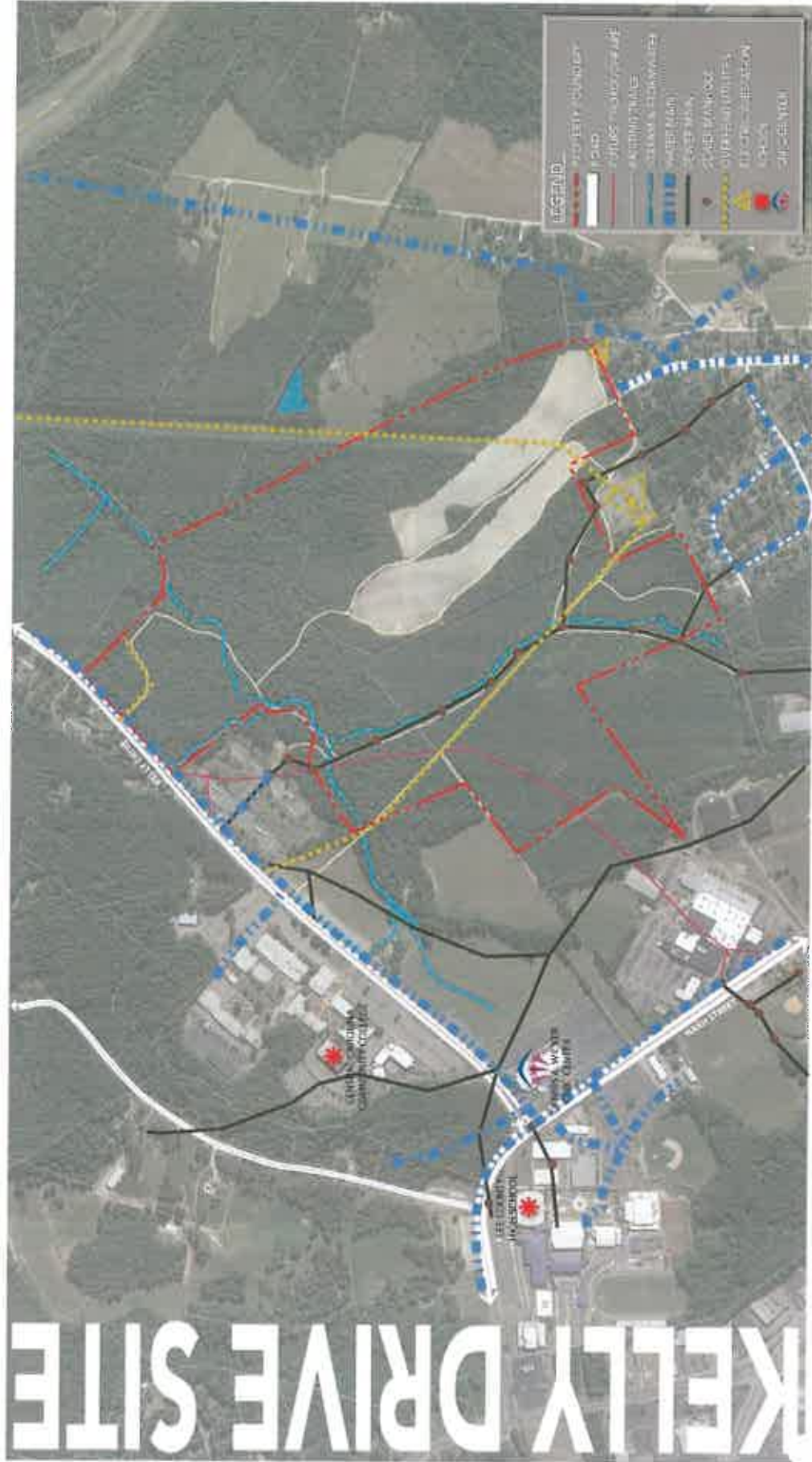
NATURAL FACTORS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



CULTURAL FACTORS

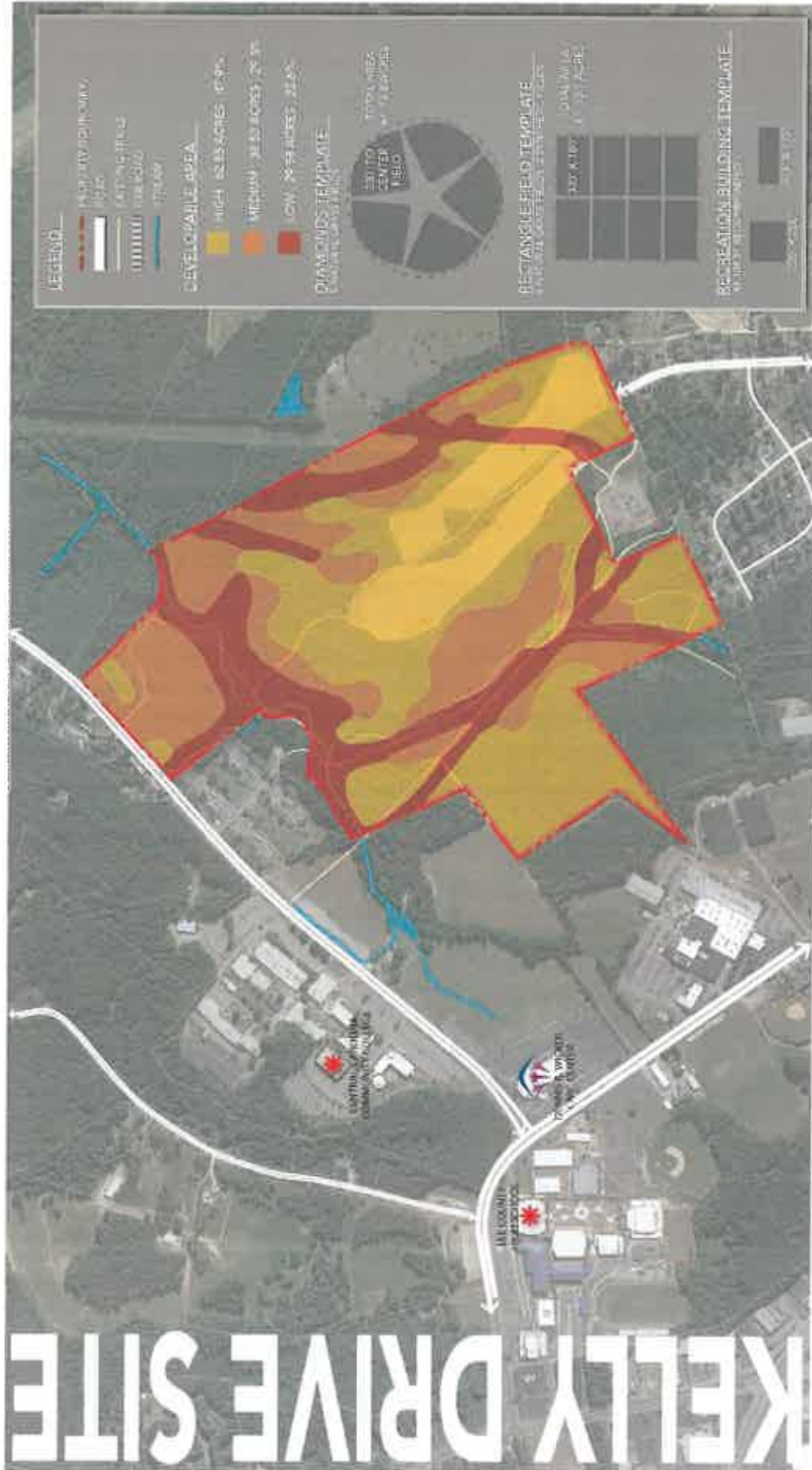
SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



SITE SUITABILITY

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

KELLY DRIVE SITE



SITE LOCATION

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



NATURAL FACTORS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



WESARA SITE



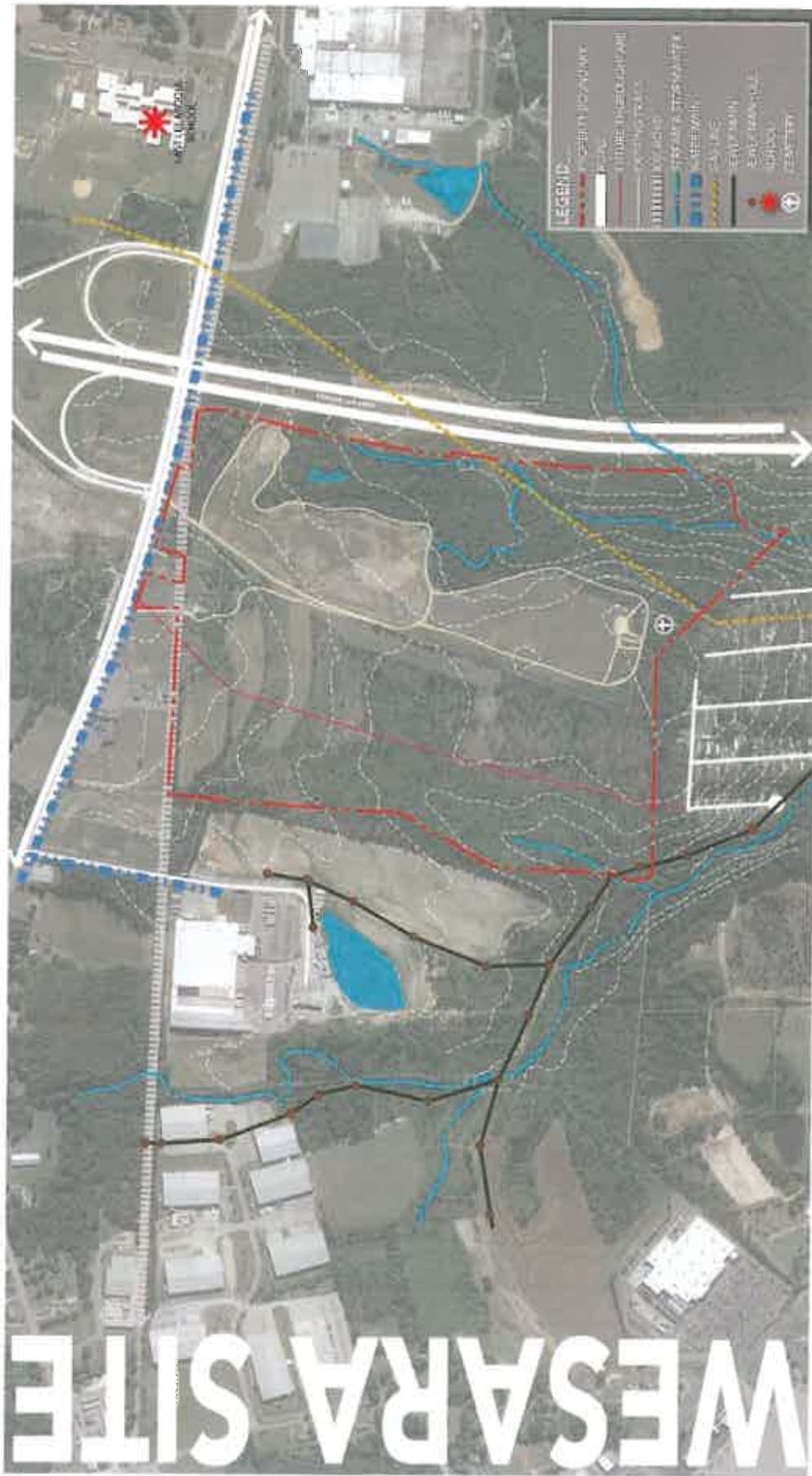
SOILS ANALYSIS MAP

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



CULTURAL FACTORS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX



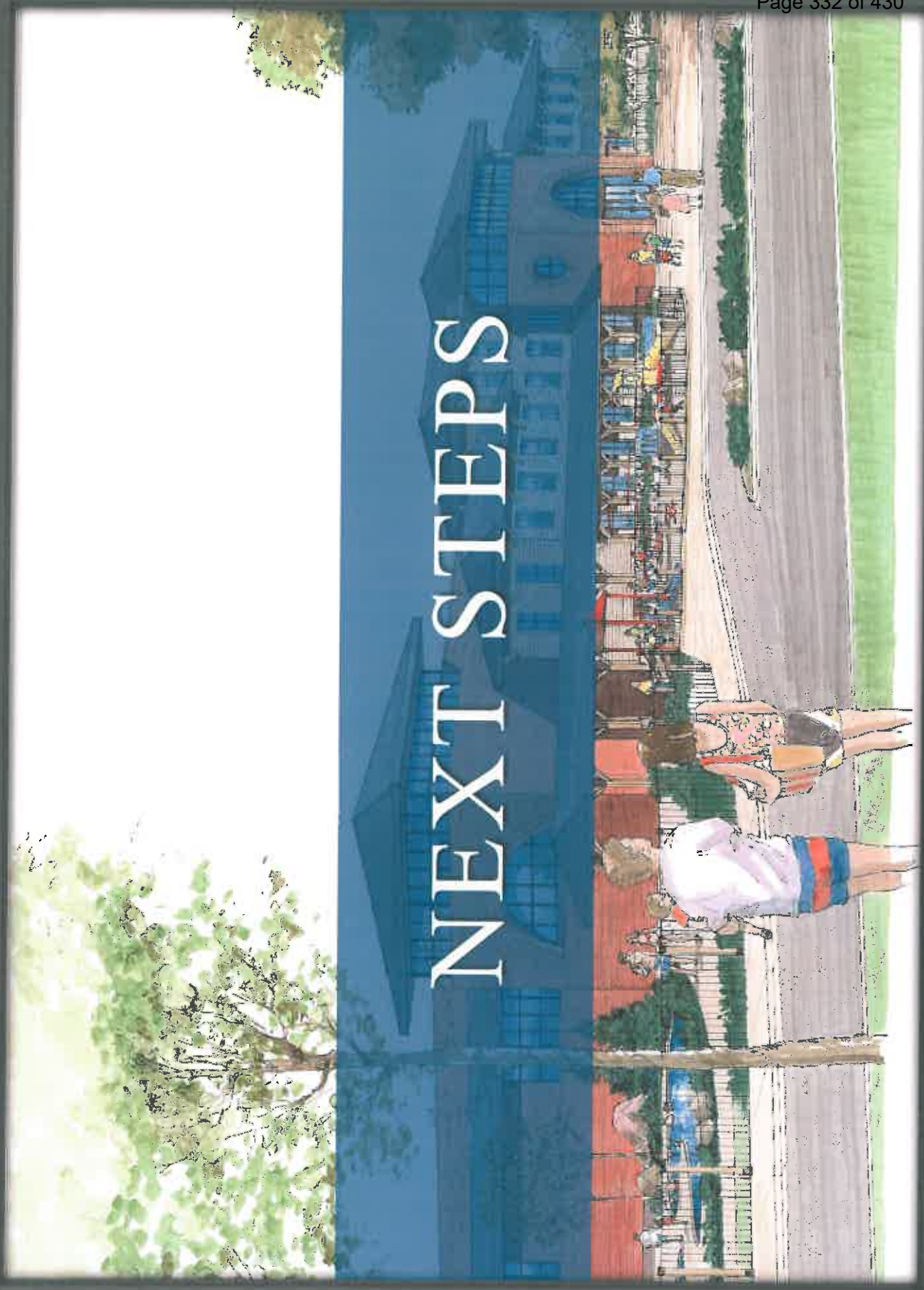
WESARA SITE



SITE SUITABILITY

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX





NEXT STEPS

SANFORD/LEE COUNTY MULTI-SPORT COMPLEX

- ◆ Confirm priority site(s) with Task Force
- ◆ Schedule Program Design Charrette with Woolpert
 - *Determine charrette participants*
 - *Week of November 7th?*
- ◆ Woolpert development of graphic program representation based on Sanford/Lee feedback
 - *Early/Mid-December*
- ◆ Public presentation of findings (if necessary)

DISCUSSION

SANFORD
NORTH CAROLINA

LEE COUNTY
NORTH CAROLINA

Committed Today for a Better Tomorrow



Multi-Sport / Event Complex- Site Analysis

October 27, 2015


WOOLPERT

 **BRAILSFORD & DUNLAVEY**



**Project Plan
for
Baseline Ambient Air Monitoring near
Potential Shale Gas Development Zones
in Lee County, NC**

Updated November 8, 2013

Department of Environment and Natural Resources
Division of Air Quality

Table of Contents

Executive Summary	3
1.0 Introduction.....	4
2.0 Project Description	5
2.1 Target Air Pollutants.....	5
2.2 Study Objectives ..	6
2.3 Assessment of Existing Monitoring Network.....	6
2.4 Methods	8
3.0 Data Analysis and Results	9
4.0 Cost Analysis	10
References	11

Executive Summary

The North Carolina Division of Air Quality (DAQ) has assessed its air quality monitoring network and developed a plan to better characterize baseline air quality in the area that may hold potential for shale gas production. Based on a review of available literature, the predominant air pollutants from hydraulic fracturing operations are speciated volatile organic compounds (benzene, toluene, ethyl benzene, xylenes, hexanes, 2,2,4-trimethylpentane, styrene), aldehydes (formaldehyde, acetaldehyde), criteria air pollutants (sulfur dioxide, nitrogen oxides, ozone, particulate matter) and reduced sulfur compounds.

An analysis of the existing air quality monitoring network indicates well-placed upwind and downwind multi-pollutant air monitoring locations in Candor (Montgomery County) and Raleigh (Wake County). These sites are near the Triassic Basin, but not within the area that may be considered most promising for shale gas production – the Sanford sub-basin located in Lee County. The DAQ does not currently operate any air quality monitors in Lee County. This project plan recommends establishing a multi-pollutant air monitoring site in Lee County that will employ identical monitoring methods and equipment as is used at all other monitoring sites.

The DAQ will leverage existing resources to the extent possible in implementing this project plan. However, it is estimated that \$158,000 of additional equipment will need to be purchased. Ongoing operating costs are projected to be approximately \$163,000 annually, including staff time for site maintenance and data analysis.

1.0 Introduction

North Carolina General Assembly Session Law 2011-276 directed the Department of Environment and Natural Resources (DENR), in conjunction with other agencies *“to study the issue of oil and gas exploration in the State and the use of horizontal drilling and hydraulic fracturing.”* The study recommended, among other things, the collection of baseline air quality information. Following that study, Session Law 2012-143, Section 2(c), requires rules related to collection of baseline data in areas where oil and gas exploration and development activities are proposed.¹ While the session law requires rules, the Division of Air Quality (DAQ) has the authority and expertise to accomplish baseline air monitoring objectives without additional rule making. This document contains an assessment of the DAQ ambient monitoring network and a project plan to better characterize air quality in the areas where the shale gas deposits are located.

The geologic formation of interest for hydraulic fracturing (HF) is the Triassic Basin, a discontinuous feature composed of sedimentary rock that lies on a generally southwest to northeast axis through 14 counties in the middle of the state. Several sub-basins in the Triassic Basin may hold potential for shale gas production, but the area considered most promising is the Sanford sub-basin of the Deep River geologic basin. This area of interest consists of approximately 59,000 acres north-northwest of the city of Sanford.

Recommendations for an ambient air monitoring program would necessarily need to be based on the HF process, the geochemical profile of the potential reserve, and probable well-pad and drilling configuration. Preliminary geochemical assessments indicate a potential for ‘wet-gas’ reserves, the more commercially preferred resource due to the presence of value-adding natural gas liquids (condensates) such as pentane, butane, hexane and ethane. Not all ‘wet-gas’ reserves are identical and definitive characterization of the deposits in the Sanford sub-basin are incomplete. In light of this weakly characterized shale gas deposit, and no prior ambient air monitoring for this purpose, this air monitoring plan heavily relies on the experiences of published studies from Arkansas, Colorado, Pennsylvania, New York, Texas, Wyoming, and United States Environmental Protection Agency (EPA). Those experiences have shown that unconventional natural gas development such as exists with HF results in direct and fugitive air emissions of a complex mixture of pollutants from the natural gas resource itself as well as from diesel engines, tanks, impoundment ponds and on-site materials used in production. The DAQ has used this information to identify target air pollutants most frequently described from monitoring and emission measurements, as well as those expected from HF production.

¹ Session Law 2012-143 Section 2.(c)(a)(5)(b)

2.0 Project Description

The DAQ will coordinate this baseline air monitoring program that is intended to characterize targeted air pollutants and establish ambient air conditions prior to start-up of possible emission sources from HF processes. Implicit in 'baseline monitoring' is that monitoring occurs before and during well development, production and gas treatment, thus making possible a "before-during-after" comparison necessary to characterize possible air quality impacts. Non-HF source impacted baseline air monitoring is planned for at least one year to account for fluctuations due to any seasonal, weekly and daily variations.

Additionally, national quality assurance documents recommend that ambient baseline sites be situated at a spatial scale defined as "urban" or "regional".^{2,3}

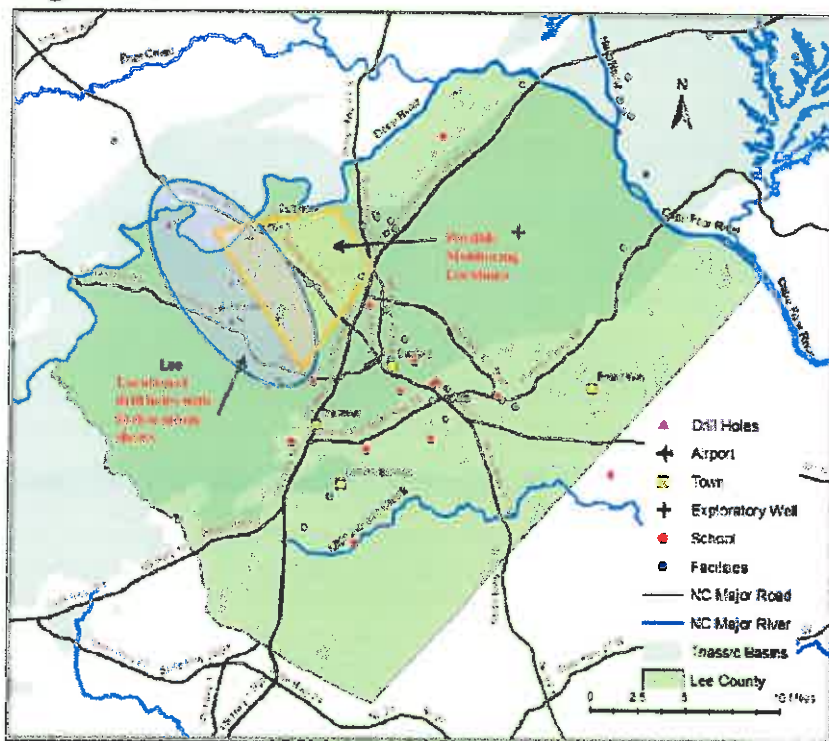


Figure 1 shows the targeted monitoring area within Lee County with respect to the locations of the Triassic Basin, exploratory wells, and facilities, all of which are necessary to consider when selecting a monitoring site. This monitoring plan anticipates that one site in Lee County will be suitable for comparison to other air monitoring data collected in North Carolina.

**Approximate Monitoring Location
 Figure 1**

2.1 Target Air Pollutants

Based on a review of available literature the predominant air pollutants (other than methane) from HF operations are listed below and are target air

² Quality Assurance Handbook for Air Pollution Measurement Systems Vol II Ambient Air Quality Monitoring Program, December 2008

³ It should be noted that using these spatial scales are not typically used with monitoring objectives for characterizing community situations.

pollutants for baseline monitoring:

Air Pollutant Category	Typically Monitored Pollutants
Speciated volatile organic compounds (VOCs)	benzene, toluene, ethyl benzene, xylenes, hexanes, 2,2,4-trimethylpentane, styrene
Aldehydes	formaldehyde, acetaldehyde
Criteria Air Pollutants	Sulfur dioxide, nitrogen oxides, ozone, particulate matter (PM 2.5)
Reduced sulfur compounds (RSC)*	hydrogen sulfide

*the presence of reduced sulfur compounds is dependent upon the type of shale gas (“wet” or “dry”) found, but is typical of “wet” gas. Until the composition of the deposit in the Deep River geologic basin is fully characterized, baseline monitoring for RSC is deferred.

2.2 Study Objectives

The baseline study objectives are intended to:

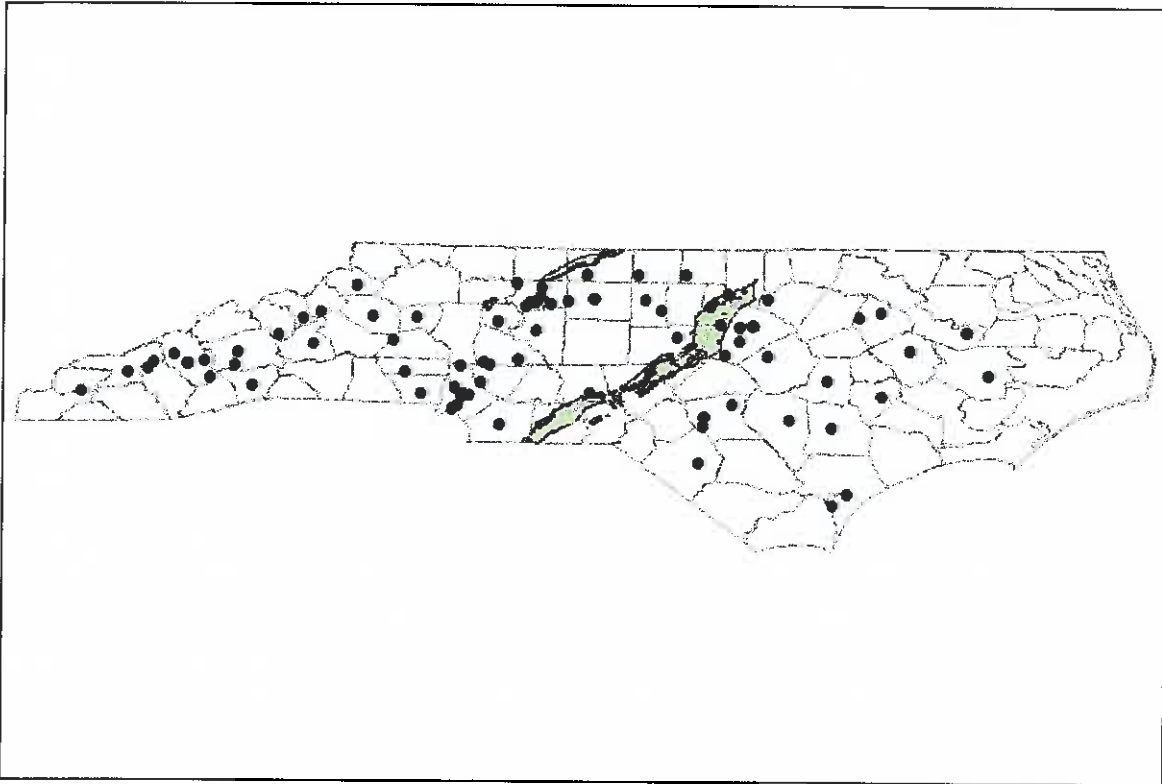
1. Measure target pollutant concentrations over a minimum one-year period to characterize baseline ambient conditions.
2. Collect a sufficient amount of data to estimate annual average concentrations
3. Implement monitoring consistent with existing State monitoring for ease of data comparability.
4. Use standard monitoring protocols to ensure consistent data of high quality.
5. Use conventional data reduction, data summary and analysis techniques to characterize the data

2.3 Assessment of Existing Monitoring Network

Since 2002, the DAQ has operated ambient air monitoring sites in five urban areas (Asheville, Winston-Salem, Charlotte, Raleigh, and Wilmington) and one rural area (Candor) under the federal Urban Air Toxics Monitoring Program (UAT). In addition to the six UAT sites, the Division has operated numerous monitoring sites across the state since the 1970s to monitor criteria air pollutants required by various federal regulations. Figure 2 shows the locations of all air quality monitoring sites in NC respective to where there is a potential for shale gas deposits to be located.

The multi-pollutant air quality monitoring sites nearest to the location where DENR has the most data on potential shale gas deposits (Lee County) include the Candor (Montgomery County) site and the Raleigh Millbrook (Wake

County) site. These sites are near the Triassic Basin, but not within the Sanford sub-basin located in Lee County. The DAQ does not currently operate any air quality monitors in Lee County. This project plan recommends establishing a Lee County air monitoring site that will employ identical monitoring methods and equipment as is used at all other monitoring sites.



**North Carolina's Ambient Air Quality Monitoring Sites and the Triassic Basin
Figure 2**

Thus, data collected could be directly comparable between the Lee County air monitoring sites and DAQ's existing air monitoring sites. The new Lee County site, along with the two existing sites in Candor and Raleigh, will help characterize air quality within, upwind and downwind of the Sanford sub-basin. The orientation of these three monitors will be aligned with the axis of the Triassic Basin, southwest to northeast, and with climatological wind directions in central North Carolina.

The Candor site will be considered the "upwind" site. An "upwind" site is needed to serve as a reference location to characterize ambient air typical to North Carolina. The Raleigh Millbrook site will be the "downwind" site. A "downwind" site is used for characterizing the possible influence of emission sources located downwind from the reference site. The proposed Lee County site is located between them.

While the sites at Candor and Raleigh Millbrook are already established, a few additions are proposed to those sites to ensure adequate coverage for the

pollutants of interest related to HF. The “upwind” site at Candor already monitors VOC, ozone and fine particles. The changes at Candor would be to install an aldehyde sampler and replace the existing every-third-day particle sampler with a continuous monitor. No sulfur dioxide (SO₂) or nitrogen dioxide (NO₂) monitoring is expected at Candor. Ozone is already monitored through EPA’s Clean Air Status and Trends Network or CASTNET⁴ and these data are publically available. No additional ozone equipment is expected to be needed at this site. The “downwind” site at Millbrook (Raleigh) already measures VOC, ozone, fine particles, and sulfur dioxide. Monitoring will soon begin for nitrogen dioxide. No additional criteria monitors are necessary at the Millbrook site, but the installation of an aldehyde sampler is necessary. The new Lee County site would be fitted with monitors for VOC, aldehydes, ozone, fine particles, and sulfur dioxide (first year only), and possibly nitrogen dioxide.

Equipment and operational costs are in Section 4.0 of this document.

2.4 Methods

A Quality Assurance Project Plan (QAPP) will be written to specify performance objectives and measures.

Field practices:

All air monitoring sampling and analysis methods follow reference or compendium methodologies published by the EPA. Equipment manufacturers’ operating manuals and agency standard operating procedures and preventative maintenance procedures will be followed. Samples will be managed under chain of custody procedures. The VOC samples will be collected once every six days and aldehyde samples will be collected once every 6 days throughout the duration of the baseline monitoring. Criteria air pollutants will be measured using continuous monitors. All sampling will occur on a schedule consistent with the national air monitoring schedule. Equipment typically used for monitoring air pollutants are listed below.

Field Monitoring Equipment*:

Make	Model	Description
Teledyne - Advanced Pollution Instrumentation, Inc.	T700U	NO ₂ Analyzer
Thermo Environmental Instruments, Inc.	43C	SO ₂ Analyzer
Thermo Environmental Instruments, Inc.	49C	Ozone Analyzer
Met One Instruments, Inc.	BAM-1020	PM _{2.5} Sampler
In House	--	Zero Air Generator
ESC	8832	Datalogger

⁴ CASTNET is a national air quality monitoring network designed to provide data to assess trends in air quality due to changes in air pollutant emissions. <http://epa.gov/castnet/javaweb/index.html>

Make	Model	Description
Thermo Environmental Instruments, Inc.	146C	Calibrator
Thermo Environmental Instruments, Inc.	49CPS	Ozone Calibrator
Teledyne - Advanced Pollution Instrumentation, Inc.		Calibrator
ATEC	2200	Aldehyde Sampler
Xontech	911	VOC Canister Sampler
ECTO	8' x 8'	Monitoring shelter
Campbell Scientific	CS800L	Meteorological Tower
Campbell Scientific	CR10X	Meteorological Sensors

*Equipment makes and models may change depending upon availability

Laboratory Practices:

The DAQ laboratory will analyze the canister (VOC) and cartridge (aldehyde) samples using standard operating procedures implementing EPA Compendium Method TO-15 (VOC), EPA PAMS Method, and TO-11A (aldehydes). Note that these analytical methods quantify a larger set of air pollutants than just those specifically targeted for this study. All data obtained will be reported and compared with monitoring results from the existing monitoring network. (See Monitoring Objectives.)

Laboratory Equipment*:

Make	Model	Description
Dionex/Thermo-Fisher		High Pressure Liquid Chromatograph
Agilent Technologies	7890A/240	GC/MS
Entech	3000	Canister Cleaning System
Entech	4600A	Dynamic Dilution System
Perkin Elmer	TurboMatrix TD	Thermal Desorber
Perkin Elmer	AutoSystem	GC/FID

*Equipment makes and models may change depending upon availability

3.0 Data Analysis and Results

The immediate outcome from reviewing sample results includes the identification of any elevated concentrations of air pollutants. The monitoring study will test the working hypothesis that pre-HF air quality at a specific location in Lee County is similar to air quality monitored at the upwind and downwind sites or across the state, hence establishing a baseline in Lee County.

To make this comparison, a database of long-term, historical, quality-assured air monitoring data acquired by ongoing state monitoring activities will be used in the final assessment(s). These data establish the long-term air pollutant characteristics, statewide, or of the general region where the baseline monitoring will occur. If there is a difference at the Lee County site, then data

obtained during the baseline period will establish a local, pre-HF air quality baseline.

The monitoring data can be used to provide estimates of exposure and create a valuable database for any future analysis of long-term health impacts or changes in air quality conditions.

4.0 Cost Estimates

Costs were estimated for site installation, equipment, operations, maintenance and labor. The cost estimate is for a one-year monitoring period at a new Lee County site and the Candor and Raleigh Millbrook sites to ensure adequate monitoring coverage for the pollutants of interest related to HF. Additionally, the DAQ will redirect available air monitoring equipment for use in this baseline monitoring project.

Item	Year 1	Year 2 and Beyond
Equipment	\$157,790	-----
Operation & Maintenance	\$ 13,122	\$ 32,862
Initial set-up labor	\$ 44,736	-----
Ongoing operation labor	\$130,800	\$ 130,800
Total Cost	\$346,448	\$ 163,662
Labor Hours	4267	3255
FTE	2.6	2.0

REFERENCES

Ambient Air Monitoring Analysis, Final Report. Town of DISH, Texas. Wolf Eagle Environmental. September 15, 2009. <http://www.townofdish.com/objects/DISH - final report revised.pdf>

Armendariz, Al. Emissions from Natural Gas Production in the Barnett Shale Area and Opportunities for Cost-Effective Improvements. Environmental Defense Fund. January 26, 2009. http://www.edf.org/sites/default/files/9235_Barnett_Shale_Report.pdf

Barnett Shale Formation Area Monitoring Projects. Texas Commission on Environmental Quality. 2009. http://www.tceq.state.tx.us/assets/public/implementation/barnett_shale/2010.01.27-BarnettShaleMonitoringReport.pdf

Bingham, Mark D. Field Detection and Implications of Mercury in Natural Gas. Society of Petroleum Engineers vol 5 #2. May, 1990. Access at: <http://www.onepetro.org/mslib/servlet/onepetroreview?id=00019357>

Cilborn, Theo et al. An Exploratory Study of Air Quality near Natural Gas Operations. Human and Ecological Risk Assessment. The Endocrine Disruption Exchange. November 9, 2012. <http://www.endocrinedisruption.com/files/HERA12-137NGAirQualityManuscriptforwebwithfigures.pdf>

Draft SGEIS on the Oil, Gas and Solution Mining Regulatory Program. Supplemental Generic Environmental Impact Statement (SGEIS), New York Department of Environmental Conservation. September, 2009 <http://www.dec.ny.gov/energy/58440.html>

Emissions Inventory & Ambient Air Monitoring of Natural Gas Production in the Fayetteville Shale Region. Arkansas Dept. of Environmental Quality. November 22, 2011 http://www.adeq.state.ar.us/air/pdfs/fayetteville_shale_air_quality_report.pdf

Environmental Protection Agency Region 6 Special Order. http://www.epa.gov/region6/6xa/pdf/range_order.pdf

FracFocus Chemical Disclosure Registry: <http://fracfocus.org/chemical-use/what-chemicals-are-used>

Garfield County Gas Emission Study. Garfield County, Colorado <http://www.garfield-county.com/news/administration-air-quality-study-proposal.aspx>

North Carolina Oil and Gas Study under Session Law 2011-276. Legislative Report. April 30, 2012. <http://portal.ncdenr.org/web/guest/denr-study>

Northeastern Pennsylvania Marcellus Shale Short-Term Ambient Air Sampling Report. January 12, 2011. Commonwealth of Pennsylvania, Department of Environmental Protection. http://www.dep.state.pa.us/dep/deputate/airwaste/aq/aqm/docs/Marcellus_NE_01-12-11.pdf

Regulatory Impact Assessment. Environmental Protection Agency, July, 2011 <http://www.epa.gov/airquality/oilandgas/actions.html>

BASELINE AIR QUALITY ASSESSMENT

Deep River Basin, Lee County North Carolina

JULY 12, 2018

NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF AIR QUALITY

217 West Jones Street, Raleigh, NC 27603

1.0 EXECUTIVE SUMMARY

The North Carolina Division of Air Quality, or DAQ, has completed the hydraulic fracturing baseline air quality monitoring project at the Blackstone site in the Deep River geological basin located south-southwest of the city of Sanford in Lee County, North Carolina. This study focused on collecting several air quality measurements, namely ozone, particulate matter, or PM, oxides of nitrogen, or NO_x, sulfur dioxide, or SO₂, aldehydes, speciated volatile organic compounds, or VOC, and meteorological data. DAQ currently operates long-term air monitoring sites that are upwind and downwind from the Blackstone site. The DAQ measured all pollutants included in this study at both the Blackstone site and the Millbrook downwind site located in Raleigh, North Carolina. The DAQ measured the same pollutants, except for NO_x and SO₂, at the upwind Candor site in Montgomery County, North Carolina. To provide a general comparison of the air shed in Lee County with these two other air sheds in North Carolina, an assessment was made between the air quality measurements obtained at the Blackstone site to air quality measurements collected at the rural upwind site in Candor and the urban downwind Millbrook site.

Prevailing winds out of the southwest and west-southwest direction characterize the Lee County air shed. The ozone data exhibited very similar maximum daily 8-hour averages for both Candor and Blackstone, with the downwind urban site being slightly higher as expected. The PM data showed a slow rise in levels of PM as one traveled from the southern tip of the basin towards the downwind site. Nitrogen dioxide levels in Lee County were lower than those measured at the downwind urban site in Raleigh, as expected. The SO₂ values at the urban downwind site in Raleigh showed the highest concentrations of the two sites, yet both sites appeared to exhibit a downward trend over time. Based on collected VOC data and statistical analysis during the study period, the air sheds at Blackstone and Candor measured the same types of VOC at similar concentration levels.

This report further discusses the findings of this baseline study.

Contents

1.0 Executive Summary 1
 FIGURES 4
 TABLES 6
2.0 Introduction 7
3.0 Meterological Data 10
 3.1 Introduction 10
 3.2 Monitoring Methodology 10
 3.3 Wind Rose Data 10
 3.4 Summary of Monitoring Data 14
 3.5 Conclusion 14
4.0 Ozone 15
 4.1 Introduction 15
 4.2 Monitoring Methodology 15
 4.3 Summary of Monitoring Data 17
 4.4 Statistical Analysis 22
 4.5 Conclusion 23
5.0 Particulate Matter 25
 5.1 Introduction 25
 5.2 Monitoring Methodology 25
 5.3 Summary of Monitoring Data 26
 5.4 Statistical Analysis 30
 5.5 Conclusion 31
6.0 Oxides of Nitrogen 32
 6.1 Introduction 32
 6.2 Monitoring Methodology 32
 6.3 Summary of Monitoring Data 33
 6.4 Statistical Analysis 34
 6.5 Conclusion 37
7.0 Sulfur Dioxide 38
 7.1 Introduction 38
 7.2 Monitoring Methodology 39
 7.3 Summary of Monitoring Data 39
 7.4 Statistical Analysis 40

7.5 Conclusion	40
8.0 Aldehydes	41
8.1 Introduction	41
8.2 Monitoring Methodology	41
8.3 Summary of Monitoring Data	42
8.4 Statistical Analysis.....	42
8.5 Conclusion	44
9.0 Volatile Organic Compounds (VOC)	46
9.1 Introduction	46
9.2 Monitoring Methodology	46
9.3 Summary of Monitoring Data	46
9.4 Statistical Analysis.....	47
9.5 Conclusion	52
10.0 Conclusions	53
11.0 List of Acronyms	54

FIGURES

Figure 1. Map of Monitoring Locations at Blackstone, Candor and Millbrook.....8

Figure 2. Blackstone Wind Rose (2014-2016)..... 11

Figure 3. Candor Wind Rose (2014-2016)..... 12

Figure 4. Millbrook Wind Rose (2014-2016)..... 13

Figure 5. Ozone Design Values for 2014 Through 2016 at Blackstone, Millbrook and Candor Sites..... 18

Figure 6. Ranked Millbrook Maximum Daily 8-Hour Ozone Concentrations.....19

Figure 7. Ranked Blackstone Maximum Daily 8-Hour Ozone Concentrations.....20

Figure 8. Ranked Candor Maximum Daily 8-Hour Average Ozone Concentrations.....21

Figure 9. Fourth Maximum Daily 8-Hour Average Ozone Concentrations.22

Figure 10. Ranked 24-Hour Average PM Concentrations at Candor.26

Figure 11. Ranked 24-Hour Average PM Concentrations at Blackstone.....27

Figure 12. Ranked 24-Hour Average PM Concentrations at Millbrook.28

Figure 13. Annual Average Particulate Matter Concentration at Candor, Blackstone and Millbrook.....29

Figure 14. 98th Percentile Particulate Matter Concentrations at Candor, Blackstone and Millbrook.29

Figure 15. Box Plots of 1-Hour Average Nitrogen Dioxide Concentrations at Blackstone and Millbrook.34

Figure 16. Nitrogen Dioxide Annual Average Concentrations at Blackstone and Millbrook.35

Figure 17. Nitrogen Dioxide 98th Percentile Concentrations at Blackstone and Millbrook.35

Figure 18. Ranked Nitrogen Dioxide Daily Maximum 1-Hour Average Concentrations at Blackstone.....36

Figure 19. Ranked Nitrogen Dioxide Daily Maximum 1- Hour Average Concentrations at Millbrook.....37

Figure 20. 99th Percentile Daily Maximum 1-Hour SO₂ Concentrations (PPB).40

Figure 21. DNPH Sampling Cartridge.41

Figure 22. The DNPH Reaction Mechanism with Atmospheric Aldehydes and Ketones.42

Figure 23. Annual Average Formaldehyde Concentrations (PPB).43

Figure 24. Annual Average Acetaldehyde Concentrations (PPB).....43

Figure 25. Box Plots of Formaldehyde Concentrations (PPB).44

Figure 26. Box Plots of Acetaldehyde Concentrations (PPB).44

Figure 27. Annual Average Benzene Concentrations at All Sites.....47

Figure 28. Annual Average Toluene Concentrations at All Sites.....47

Figure 29. Annual Average Ethylbenzene Concentrations at All Sites.....48

Figure 30. Annual Average m/p-Xylene Concentrations at All Sites.....48

Figure 31. Annual Average o-Xylene Concentrations at All Sites.....49

Figure 32. Annual Average n-Hexane Concentrations at All Sites.49

Figure 33. Box Plot of Benzene Concentrations at All Sites.....50

Figure 34. Box Plot of Toluene Concentrations at All Sites..... 50

Figure 35. Box Plot of Ethylbenzene Concentrations at All Sites..... 51

Figure 36. Box Plot of m/p-Xylene Concentrations at All Sites..... 51

Figure 37. Box Plot of o-Xylene Concentrations at All Sites..... 52

Figure 38. Box Plot of n-Hexane Concentrations at All Sites. 52

TABLES

Table 1. National and North Carolina Ambient Air Quality Ozone Standards as of 2016.....15

Table 2. First through Fourth Daily 8-Hour Average Maximum Ozone Values in Parts per Billion for 2014 through 2016..... 17

Table 3. Millbrook 98th Percentile and Average Maximum Daily 8-Hour Average Ozone Concentrations.19

Table 4. Blackstone 98th Percentile and Average Maximum Daily 8-Hour Average Ozone Concentrations.20

Table 5. Candor 98th Percentile and Average Maximum Daily 8-Hour Average Ozone Concentrations.21

Table 6. Wilcoxon Statistical Test for Maximum Daily 8-Hour Average Ozone at Candor and Blackstone.23

Table 7. Wilcoxon Statistical Test for Maximum Daily 8-Hour Average Ozone at Millbrook and Blackstone.23

Table 8. National and North Carolina Ambient Air Quality PM_{2.5} Standards.25

Table 9. Candor 98th Percentile and Annual Average of 24-Hour Average PM_{2.5} Concentrations.26

Table 10. Blackstone 98th Percentile and Annual Average of 24-Hour Average PM_{2.5} Concentrations.27

Table 11. Millbrook 98th Percentile and Annual Average of 24-Hour Average PM_{2.5} Concentrations.28

Table 12. Wilcoxon Statistical Test for PM_{2.5} between Candor and Blackstone.....30

Table 13. Wilcoxon Statistical Test for PM_{2.5} between Millbrook and Blackstone.....30

Table 14. Three Year Average and 98th Percentile PM_{2.5} Concentrations in µg/m³ at All Sites.....31

Table 15. National and North Carolina Ambient Air Quality Nitrogen Dioxide Standards.32

Table 16. Blackstone Annual Average and 98th Percentile of 1-Hour Average NO₂ Concentrations.33

Table 17. Millbrook Annual Average and 98th Percentile of 1-Hour Average NO₂ Concentrations.34

Table 18. Three Year Average and 98th Percentile NO₂ Concentrations.37

Table 19. National and North Carolina Ambient Air Quality Sulfur Dioxide Standards.38

Table 20. Number of Valid SO₂ Sampling Days at Blackstone and Millbrook.....39

Table 21. Annual 99th Percentile of Daily Maximum 1-Hour Averages.....39

2.0 INTRODUCTION

North Carolina General Assembly Session Law 2011-276 directed the Department of Environment and Natural Resources, currently, the Department of Environmental Quality, in conjunction with other agencies, “to study the issues of oil and gas exploration in the state and the use of horizontal drilling and hydraulic fracturing.”¹ Session Law 2012-143, Section 2(c), requires rules related to collection of baseline data in areas where oil and gas exploration and development activities are proposed.² The study recommended, among other things, the collection of baseline air quality information. Thus, the DAQ planned and initiated a baseline ambient air monitoring program. The Project Plan for Baseline Ambient Air Monitoring near Potential Shale Gas Development Zones in Lee County, North Carolina, provides additional information about this baseline ambient air monitoring program.³ This document contains the results of the baseline assessment where, in 2012, there was thought to be a high potential for shale gas exploration and extraction in the future.

Implicit in “baseline monitoring” is that monitoring occurs before well development, production and gas treatment. This data can be used when making a “before-during-after” comparison to characterize possible air quality impacts due to hydraulic fracturing. Because hydraulic fracturing has not occurred in North Carolina, this report contains a summary of the air quality in Lee County prior to hydraulic fracturing.

Objectives of the baseline study were to:

1. Measure target pollutant concentrations over a minimum one-year period to characterize baseline ambient conditions. (The actual study period lasted over four years. This report contains a summary of the first three years of monitoring).
2. Collect enough data to estimate annual average concentrations.
3. Implement monitoring consistent with existing state monitoring for ease of data comparability.
4. Use standard monitoring protocols to ensure consistent data of high quality.
5. Use conventional data reduction, data summary and analysis techniques to characterize the data.

This project plan recommended establishing a Lee County air monitoring site that would employ monitoring methods and equipment as used at other monitoring sites. Therefore, data collected would be directly comparable between the Lee County air monitoring site, named Blackstone, and DAQ’s existing air monitoring sites. The DAQ selected the Blackstone site, along with the two existing sites in Candor and Raleigh, referred to as Candor and Millbrook, to characterize air quality within, upwind and downwind of the Sanford sub-basin. Figure 1 displays the orientation of

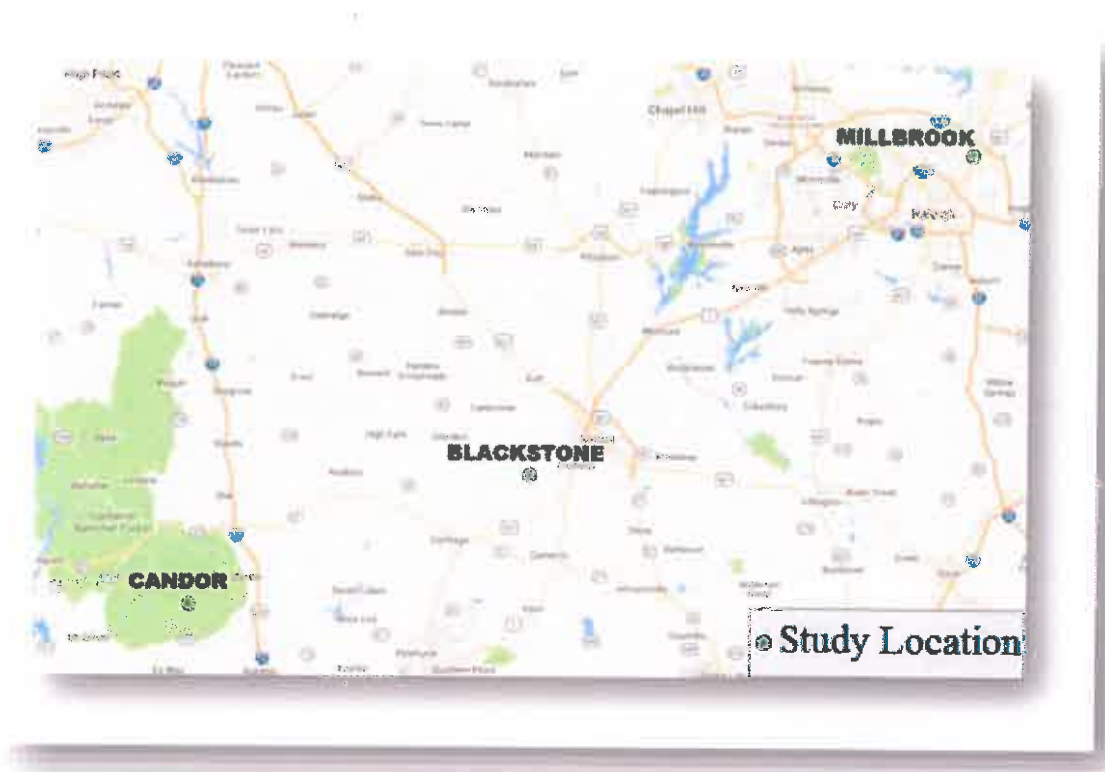
¹ General Assembly of North Carolina, Session 2011, Session Law 2011-276, House Bill 242, available on the worldwide web at <https://www.ncleg.net/Sessions/2011/Bills/House/PDF/H242v7.pdf>, accessed May 26, 2018.

² General Assembly of North Carolina, Session 2011, Session Law 2012-143, Senate Bill 820, available on the worldwide web at <https://www.ncleg.net/Sessions/2011/Bills/Senate/PDF/S820v6.pdf>, accessed May 26, 2018.

³ North Carolina Department of the Environment and Natural Resources, Project Plan for Baseline Ambient Air Monitoring near Potential Shale Gas Development Zones in Lee County, NC, updated Nov. 8, 2013, available on the worldwide web at https://files.nc.gov/ncdeq/Air%20Quality/monitor/specialstudies/DAQ_Project_Plan.pdf, accessed May 26, 2018.

these three monitoring stations, which are aligned with the axis of the Triassic Basin,⁴ southwest to northeast and with climatological wind directions in central North Carolina.⁵

Figure 1. Map of Monitoring Locations at Blackstone, Candor and Millbrook.



DAQ considers the Candor site as the “upwind” site. The study needed an “upwind” site to serve as a reference location to characterize ambient air typical to North Carolina. DAQ considers the Millbrook site as the “downwind” site. DAQ uses the “downwind” site to characterize the possible influence of emission sources located downwind from the reference site. The study site at Blackstone is located between the upwind site at Candor and the downwind site at Millbrook.

The United States Environmental Protection Agency, or EPA, uses core-based statistical areas, or CBSAs, as designated by the Office of Management and Budget, or OMB, to determine whether an area is urban or rural by EPA’s definition.⁶ The OMB designates CBSAs as metropolitan statistical areas, or MSAs, if they have at least one

⁴ U.S. Geological Survey, Assessment of Undiscovered Oil and Gas Resources of the East Coast Mesozoic Basins of the Piedmont, Blue Ridge Thrust Belt, Atlantic Coastal Plain and New England Provinces, 2011, available on the worldwide web at <https://pubs.usgs.gov/fs/2012/3075/fs2012-3075.pdf>, accessed on May 26, 2018.

⁵ North Carolina Climate Office, General Synopsis, available on the worldwide web at <http://www.nc-climate.ncsu.edu/climate/synopsis>, accessed May 25, 2018.

⁶ Office of Management and Budget, OMB Bulletin NO. 18-03, Revised Delineations of Metropolitan Statistical Areas, Micropolitan Statistical Areas and Combined Statistical Areas and Guidance on uses of the Delineations of These Areas, April 10, 2018, available on the worldwide web at <https://www.whitehouse.gov/wp-content/uploads/2018/04/OMB-BULLETIN-NO.-18-03-Final.pdf>, accessed May 25, 2018.

urban area of 50,000 or more population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by the number of people from the adjacent territory who commute to the urban core for work. Micropolitan statistical areas have at least one urban cluster of at least 10,000 but less than 50,000 population plus adjacent territory that has a high degree of social and economic integration with the core as measured by the number of people from the adjacent territory who commute to the urban cluster for work. Based on population statistics, Candor is not in an MSA or a micropolitan statistical area so EPA considers it a rural site. Millbrook and Blackstone are in CBSAs so the EPA considers them urban sites. However, Blackstone is in the micropolitan statistical area of Sanford, which has significantly less population and less urban area than the Raleigh MSA where Millbrook is located. The urbanization trends based on overall population statistics often follow the concentration trends when comparing pollutant concentrations at each site.

For the criteria pollutants, ozone, PM, NO₂ and SO₂, the EPA determines ambient air quality status by measuring pollutant concentrations in outdoor air and comparing the measured concentrations to corresponding standards. The EPA defines the ambient air as "that portion of the atmosphere, external to buildings, to which the public has access." The EPA classifies ambient air quality standards as primary and secondary. Primary standards are those established to protect public health. Secondary standards are those established to protect the public welfare from adverse pollution effects on soils, water, crops, vegetation, man-made materials, animals, wildlife, weather, visibility, climate, property, transportation, economy and personal comfort and well-being. The EPA periodically reviews the scientific criteria used to establish the standards. Depending on its findings, the EPA may reestablish or change the standards. The EPA defines a pollutant measurement that is greater than the ambient air quality standard for a specific averaging time as an exceedance.

3.0 METEOROLOGICAL DATA

3.1 INTRODUCTION

The Blackstone site, as well as the upwind site at Candor, is equipped with meteorological sensors that record data at 1 and 5-minute intervals at a height of 2 meters and 10 meters. The downwind site at Millbrook is also equipped with meteorological sensors that record data at a height of 2 meters and 10 meters. The DAQ collected data for wind speed, wind direction, variability in wind direction, temperature and relative humidity. The DAQ used the wind speed and wind direction data to construct wind roses, showing the frequency of winds blowing from specific directions over a specified period, which may help identify contributing sources in the event of high pollutant readings during the study period.

3.2 MONITORING METHODOLOGY

The meteorological sampling and analysis methods used followed reference documents published by the EPA. The DAQ followed equipment manufacturer's operating manuals, agency standard operating procedures and preventative maintenance procedures. The DAQ measured temperature and relative humidity data using a Rotronics HC2 sensor located in a solar radiation shield at 2 meters above ground level. Wind data was continuously measured by a cross arm with an attached Met One 010C wind speed sensor and a Met One 020 wind direction sensor. The DAQ placed these two sensors on a tower at 10 meters above ground level.

The wind roses show the direction from which the wind was blowing and present the wind speeds from those directions as rays of varying lengths and colors. The length of each "spoke" around the circle equates to the frequency the wind blows from a specific direction per unit time and color coded to the range of speeds observed. Each wind rose consists of wind data for the entire 3-year study period. The wind rose does not give information about wind direction variations and only indicates the relative amount of time during the sampling period that the winds originated from a specific direction. While the wind direction provides a generalized directional location of a potential impact source, the wind speed can provide a generalized distance from the air monitoring site to a potential impact source.

3.3 WIND ROSE DATA

Figure 2 through Figure 4 on the following pages contain examples of wind roses generated by wind speed and wind direction sensors at the Blackstone, Candor and Millbrook monitoring sites during the study period.

Figure 2. Blackstone Wind Rose (2014-2016).

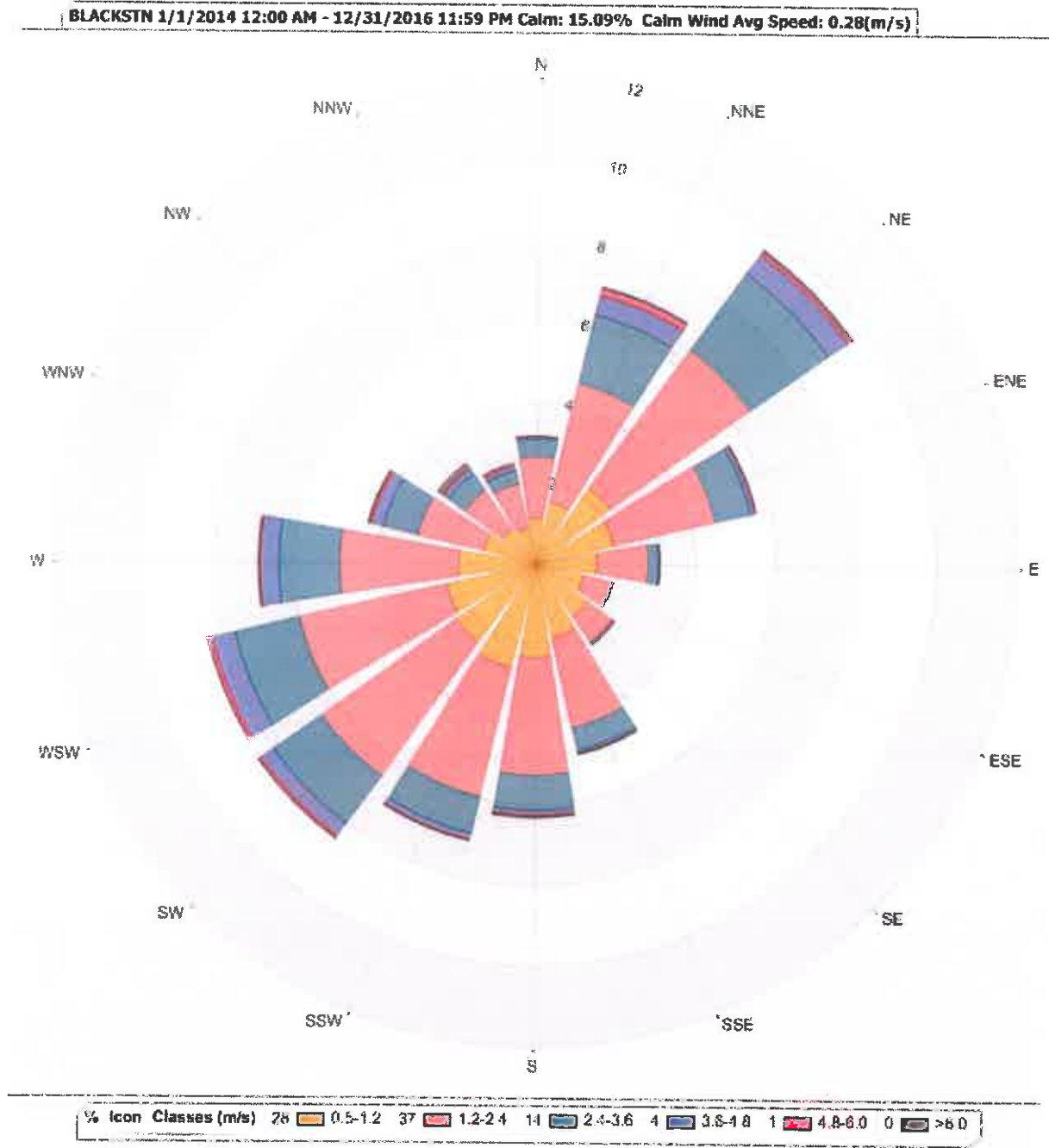
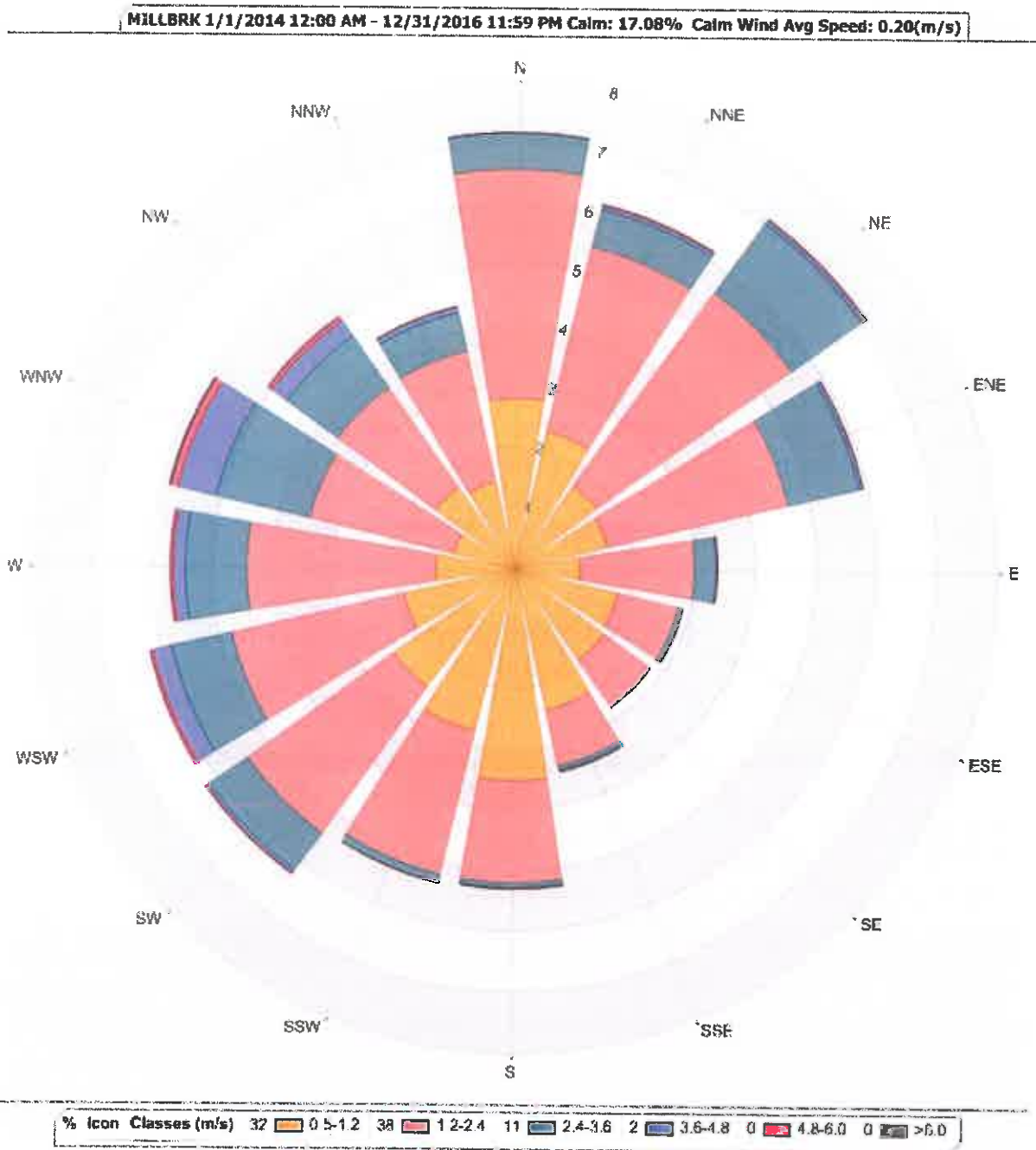


Figure 4. Millbrook Wind Rose (2014-2016).



3.4 SUMMARY OF MONITORING DATA

The Blackstone wind rose indicates the wind generally blows either from the southwest, west southwest and west or from the northeast with a predominant wind speed range of 1.2-2.4 meters per second, or m/s. Candor's wind rose indicates the wind generally blows from the south, north northeast and northeast with a predominant wind speed range of 1.2-2.4 m/s. Millbrook's wind rose indicates the wind generally blows from all directions with a predominant wind speed range of 1.2-2.4 m/s.

3.5 CONCLUSION

Wind roses can provide stake holders the ability to locate potential impact sources relative to the air monitoring site location. The Blackstone, Candor and Millbrook wind roses indicate similar wind speed ranges at all three sites during the study period. The wind direction data tend to vary from site to site, but overall the wind generally blows from the south, southwest direction at all sites. According to the North Carolina Climate Office, the winds in North Carolina come predominately from a westerly direction due to North Carolina's geographical location.⁷ The prevailing winds come from the southwest 10 months of the year and from the northeast in September and October.⁸

Wind roses can also be a useful tool in confirming the validity of a site location for air monitoring. The Blackstone site is located northeast of potential shale gas well sites in the deep river basin. Thus, DAQ positioned the site in a location that would measure the potential air emissions from the deep river basin on days when the wind was blowing from the southwest, west and south.

⁷ North Carolina Climate Office, General Synopsis, available on the worldwide web at <http://www.nc-climate.ncsu.edu/climate/synopsis>, accessed May 25, 2018.

⁸ *Ibid.*

4.0 OZONE

4.1 INTRODUCTION

Natural gas development and production emit criteria pollutants as defined by the Clean Air Act (EPA, 2012). The main pollutants produced in shale gas extraction are NO_x and VOCs. In the presence of sunlight, these react to form ozone and contribute to regional air problems. Ozone is the most widespread and serious criteria air pollutant in North Carolina and even moderate concentrations can be harmful to people, animals, vegetation and materials.

Ozone is a pulmonary irritant, affecting the respiratory mucous membranes, as well as other lung tissues and respiratory functions. Studies show ozone impairs normal function of the lung causing shallow, rapid breathing and a decrease in pulmonary function. Other symptoms of exposure include chest tightness, coughing and wheezing. People with asthma, bronchitis or emphysema will develop breathing difficulty when exposed to high, short-term concentrations. Continued or repeated long-term exposure may result in permanent lung damage.

Ozone damages vegetation by injuring leaves. It enters the plant's leaves through its gas exchange pores, or stomata, just as other atmospheric gases do in normal gas exchange. Ozone dissolves in the water within the plant and reacts with other chemicals, causing a variety of problems such as slowed photosynthesis, lower yields and greater susceptibility to pests.

Ozone also accelerates material aging by cracking rubber and fading dyes and paint. Ozone in the air will attack the double bonds in rubber chains, with natural rubber and nitrile rubber being the most sensitive to degradation. Ozone increases the oxidation rate of paints and dyes; primarily fading many of the natural dyes and dye-based pigments used by artists.

Table 1 summarizes the national primary, secondary and North Carolina ambient air quality standards in effect during the study. At the beginning of the study, the primary and secondary standards were set at 0.075 parts per million, or ppm, up to and including 2014 and 2015. In October 2015, the EPA revised the standard, starting in 2016, to 0.070 ppm. In 2015, EPA directives and Code of Federal Regulations, or CFR, guidance also changed the hours of day used to calculate the maximum 8-hour average for the day. The DAQ revised and back calculated design values, or DVs, with the 'new' standard, i.e. 0.070 ppm, back to 2014 and forward through 2016 data.

Table 1. National and North Carolina Ambient Air Quality Ozone Standards as of 2016.

Pollutant/ Ambient Measurement/ (Reference)	Averaging Period	Type of Summary	Primary National (Health Related) Standard	Secondary National (Welfare Related) Standard	North Carolina Standard
Ozone (40CFR50, App. I)	8 hours	Annual fourth-highest daily maximum 8-hour concentration, averaged over 3 years	0.070 ppm	0.070 ppm	0.070 ppm

4.2 MONITORING METHODOLOGY

4.3 SUMMARY OF MONITORING DATA

The EPA revised and updated the primary and secondary national ambient air quality standards, or NAAQS, for ozone during 2016 to 0.070 ppm or 70 parts per billion, or ppb. Due to the new standard, an escalation of exceedance events across the state occurred. During 2016, a total of 39 exceedance events occurred across the state with the new standard in place. Even with the 39 exceedances observed in 2016, North Carolina achieved attainment status in all counties across the state. It is significant that of the three sites presented in this report, only the Millbrook urban downwind site exhibited two ozone exceedance values. As shown in Table 2 one exceedance occurred during 2015 and the other during 2016.

Table 2. First through Fourth Daily 8-Hour Average Maximum Ozone Values in Parts per Billion for 2014 through 2016.

	First Maximum Daily 8-Hour Average	Second Maximum Daily 8-Hour Average	Third Maximum Daily 8-Hour Average	Fourth Maximum Daily 8-Hour Average
2014				
Blackstone	69	66	64	62
Candor	65	64	62	62
Millbrook	70	64	64	63
2015				
Blackstone	65	60	60	60
Candor	64	63	61	59
Millbrook	71	68	65	65
2016				
Blackstone	69	66	65	64
Candor	66	66	63	62
Millbrook	74	70	69	69

Per 40 CFR Part 50, the EPA uses design values, or DVs, to classify areas consistent with the NAAQS. For ozone, the EPA based the DV on the 4th highest daily maximum 8-hour average value for a site, averaged over a three-year period. The DAQ used the 70-ppb standard for the 2014 thru 2016 DV calculations. The data completeness requirement is no less than 75 percent per year and a 3-year average of 90 percent completeness. If the DV exceeds the 70-ppb standard, then EPA classifies the area as “non-attainment” and the area violates the standard. Figure 5 displays the DVs throughout the state for 2014 through 2016. All monitors throughout the state attained the standard. The DVs increase going from the rural Candor site to the urban Millbrook site.

Figure 5. Ozone Design Values for 2014 Through 2016 at Blackstone, Millbrook and Candor Sites.

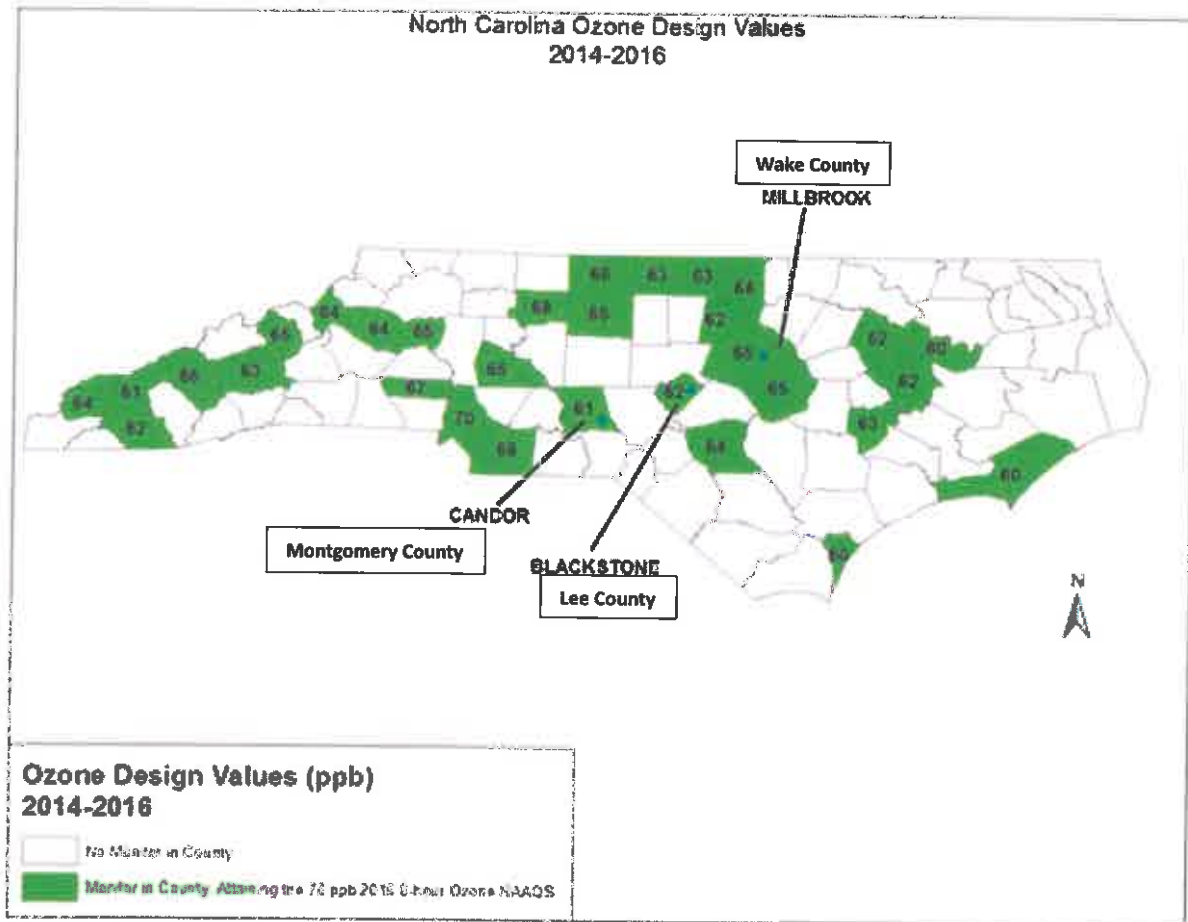


Figure 6 displays the ranked maximum daily 8-hour ozone concentrations at Millbrook for 2014, 2015 and 2016. All three years show a similar pattern with most concentrations being less than 60 ppb. Table 3 summarizes the average of the maximum daily 8-hour average; the 98th percentile of the maximum daily 8-hour average and the 4th maximum daily 8-hour average ozone concentrations at Millbrook for the three years. These statistics remained the same in 2014 and 2015.

Figure 6. Ranked Millbrook Maximum Daily 8-Hour Ozone Concentrations.

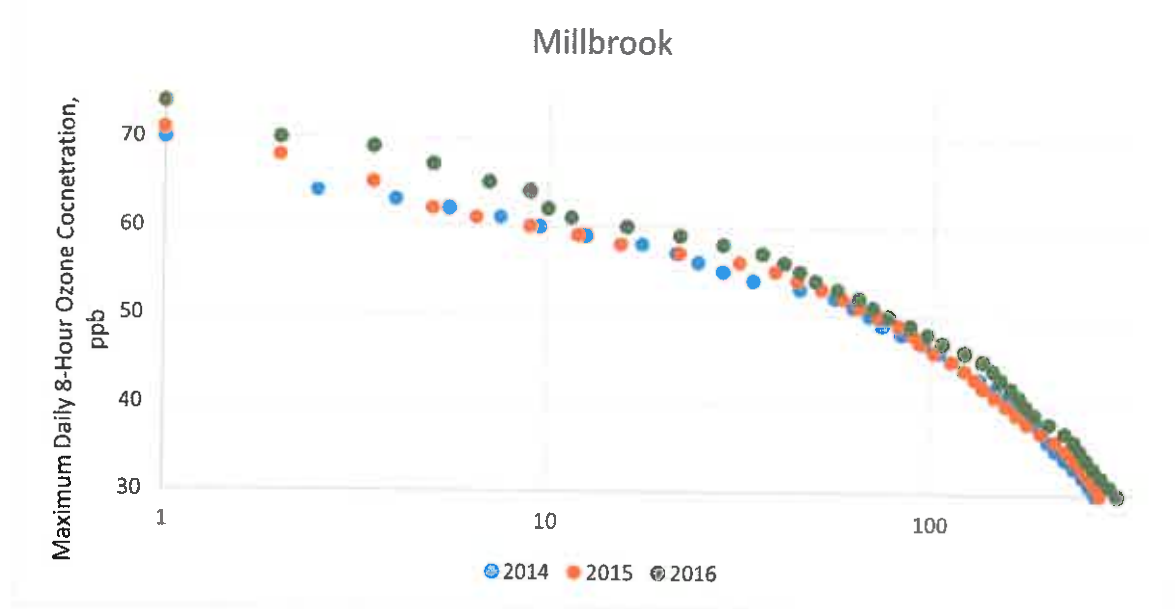


Table 3. Millbrook 4th Maximum, 98th Percentile and Average Maximum Daily 8-Hour Average Ozone Concentrations.

Millbrook	2014	2015	2016
Average of the maximum daily 8-hour average, ppb	39	39	41
98 th percentile of the maximum daily 8-hour average, ppb	61	61	65
4 th maximum daily 8-hour average, ppb	63	65	69

Figure 7 displays the ranked maximum daily 8-hour ozone concentrations at Blackstone for 2014, 2015 and 2016. All three years show a similar pattern with most concentrations being less than 60 ppb. Table 4 summarizes the average of the maximum daily 8-hour average; the 98th percentile of the maximum daily 8-hour average and the 4th maximum daily 8-hour average ozone concentrations at Blackstone for the three years. These statistics were very close to one another in 2014 and 2016 and appeared to go down in 2015.

Figure 7. Ranked Blackstone Maximum Daily 8-Hour Ozone Concentrations.

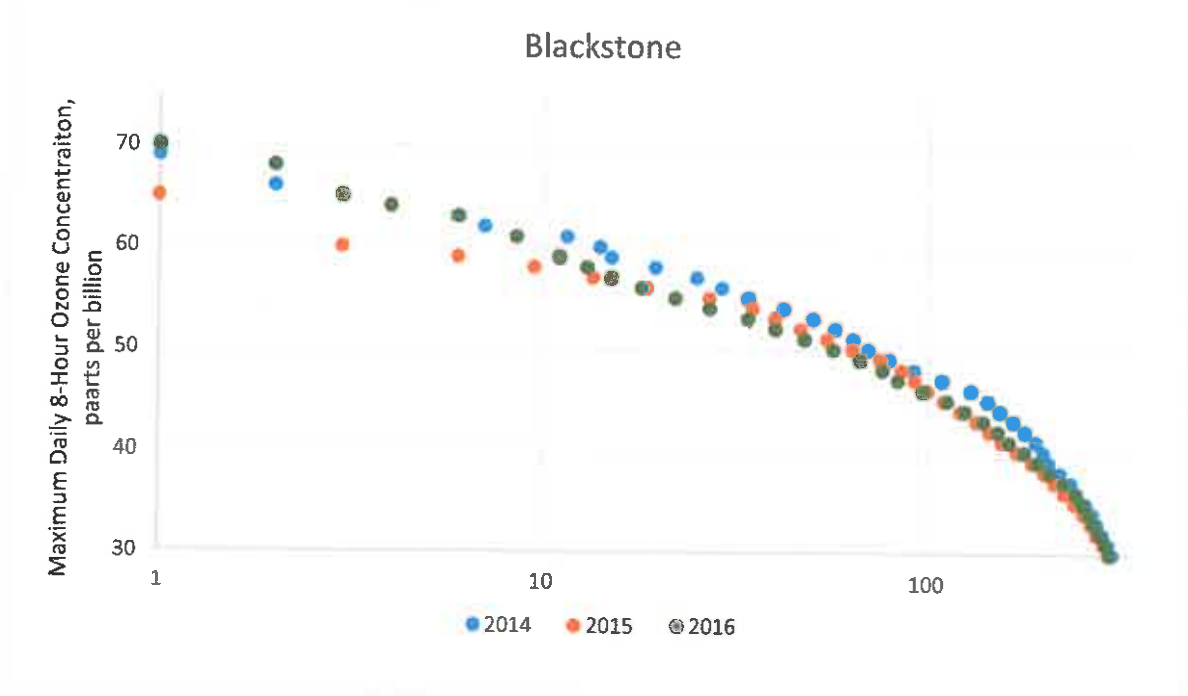


Table 4. Blackstone 4th Maximum, 98th Percentile and Average Maximum Daily 8-Hour Average Ozone Concentrations.

Blackstone	2014	2015	2016
<i>Average of the maximum daily 8-hour average, ppb</i>	41	39	41
<i>98th percentile of the maximum daily 8-hour average, ppb</i>	62	59	64
<i>4th maximum daily 8-hour average, ppb</i>	64	60	64

Figure 8 displays the ranked maximum daily 8-hour ozone concentrations at Candor for 2014, 2015 and 2016. All three years show a similar pattern with most concentrations being less than 60 ppb. Table 5 summarizes the average of the maximum daily 8-hour average; the 98th percentile of the maximum daily 8-hour average and the 4th maximum daily 8-hour average ozone concentrations at Candor for the three years. These statistics may indicate a slight downward trend between 2014 and 2016.

Figure 8. Ranked Candor Maximum Daily 8-Hour Average Ozone Concentrations.

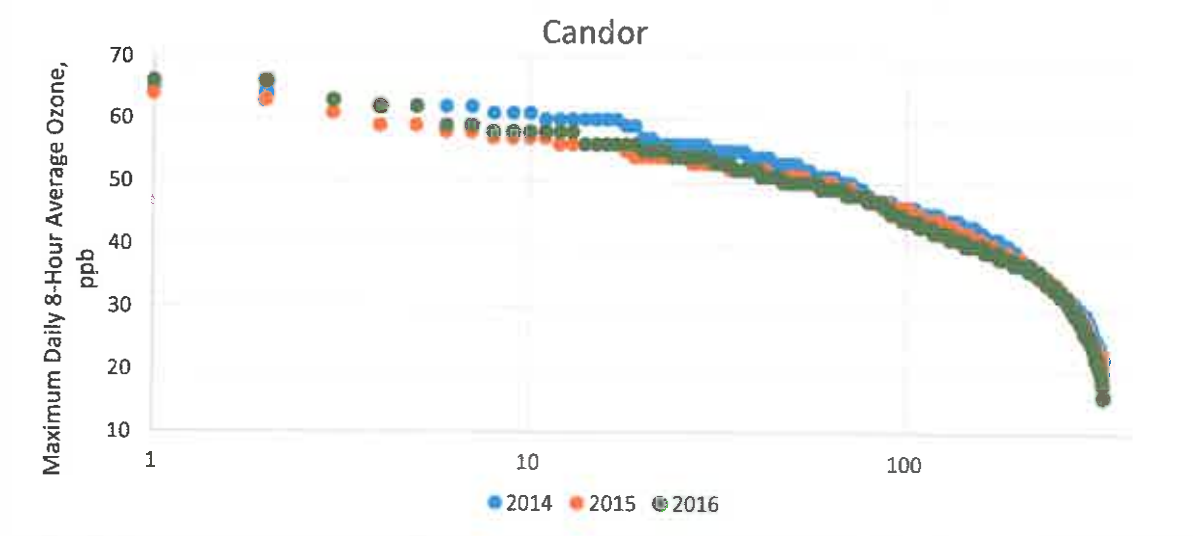
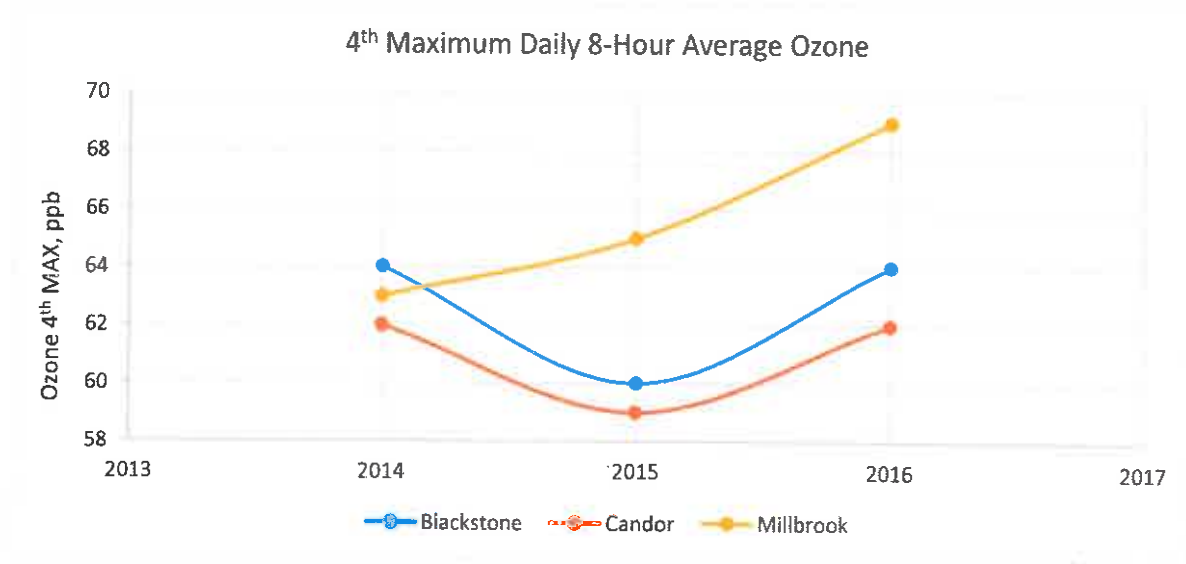


Table 5. Candor 4th Maximum, 98th Percentile and Average Maximum Daily 8-Hour Average Ozone Concentrations.

Candor	2014	2015	2016
<i>Average of the maximum daily 8-hour average, ppb</i>	40	39	39
<i>98th percentile of the maximum daily 8-hour average, ppb</i>	62	58	59
<i>4th maximum daily 8-hour average, ppb</i>	62	59	62

Figure 9 displays the trends in the fourth maximum daily 8-hour ozone concentrations at Candor, Blackstone and Millbrook for 2014, 2015 and 2016. The fourth maximum daily 8-hour ozone concentrations at Candor and Blackstone display a similar trend for this three-year period. At the Millbrook site, the fourth maximum daily 8-hour average ozone concentrations displayed an upward trend from 2014 to 2016.

Figure 9. Fourth Maximum Daily 8-Hour Average Ozone Concentrations.



4.4 STATISTICAL ANALYSIS

The DAQ performed a Wilcoxon nonparametric test that compares two paired groups on the three datasets. The DAQ used the test to determine whether a statistically significant difference exists between two populations that have the same continuous distribution. The DAQ used the test to calculate the difference between each set of pairs and analyze these differences. Table 6 and Table 7 present the results of these tests. Based on the Wilcoxon Statistical Test, the DAQ does not have sufficient evidence to conclude the ozone dataset at Blackstone differs from the Candor ozone dataset in 2014, 2015 and 2016. Based on the Wilcoxon Statistical Test, the DAQ does not have sufficient evidence to conclude the ozone dataset at Blackstone differs from the Millbrook ozone dataset in 2014. However, the DAQ does have statistically significant evidence at $\alpha = 0.05$ to show that the ozone dataset at Blackstone is not equal to the ozone dataset at Millbrook in 2015 and 2016.

Table 6. Wilcoxon Statistical Test for Maximum Daily 8-Hour Average Ozone at Candor and Blackstone.

	2014	2015	2016
α	0.05	0.05	0.05
Tails	2	2	2
W(Candor)	45	49	45
W(Blckstr)	60	56	60
W_crit	36	36	36
	(45>36)	(49>36)	(45>36)

Table 7. Wilcoxon Statistical Test for Maximum Daily 8-Hour Average Ozone at Millbrook and Blackstone.

	2014	2015	2016
α	0.05	0.05	0.05
Tails	2	2	2
W(Millbro)	48	73	70
W(Blckstr)	57	32	35
W_crit	36	36	36
	(48>36)	(32<36)	(35<36)

4.5 CONCLUSION

The comparisons of more than three years of daily maximum 8-hour average ozone data for all three sites indicated consistency in data for each site from year to year. Millbrook exhibited slightly higher daily 8-hour average values, as expected, in general, from an urban site with a much denser population and greater potential for source emissions. Candor and Blackstone exhibited very similar maximum daily 8-hour averages throughout the study. Only the Millbrook site exhibited exceedances of the NAAQS during 2015 and 2016. The DVs were slightly higher for Millbrook. The DVs for Blackstone and Candor were very similar in value. The fourth highest daily maximum 8-hour average used to calculate the DVs was positive and linear for Millbrook and increasing for all three years of the study. Both Candor and Blackstone exhibited a negative slope during year 2015 and then a return to values like 2014 for 2016. It is uncertain what caused this dip. The dip could possibly be attributable to meteorological events or other influences beyond the scope of this report.

The DAQ performed Wilcoxon statistical analysis on the data collected at the Blackstone site and compared it with data collected at both the upwind Candor site and the downwind Millbrook site. There was no statistical significance between the Blackstone and Candor sites ozone data for the duration of the study. However, at $\alpha = 0.05$ we have statistically significant evidence to show that the Millbrook ozone data are not equal to the Blackstone ozone during years 2015 and 2016.

In conclusion, this study collected over three years of continuous ozone data that DAQ can use with a high degree of confidence for baseline reference data if needed at a future date. The ozone data is of interest since it can be

impacted from many of the byproducts of shale gas extraction processing depending on activity levels. Scientists have known and established many of these byproducts as precursors of ozone formation. Thus, the DAQ believes the data collected from the Blackstone site and the data generated from the downwind Millbrook site provide excellent datasets to compare against should the energy industry implement a shale gas extraction operation in the foreseeable future.

5.0 PARTICULATE MATTER

5.1 INTRODUCTION

Atmospheric PM is defined as any airborne material, except uncombined water (liquid, mist, steam, etc.), that exists in a finely divided form as a liquid or solid at standard temperature (25° C) and pressure (760 mm mercury) and has an aerodynamic diameter of less than 100 micrometers, or μm . Two of the most common monitored sizes of PM are PM with an aerodynamic diameter less than or equal to 10 μm , or PM_{10} , and PM with aerodynamic diameter less than or equal to 2.5 μm , or $\text{PM}_{2.5}$. The DAQ has performed PM_{10} sampling in North Carolina since 1985. Monitoring $\text{PM}_{2.5}$ became a separate requirement in 1999 and the DAQ has performed sampling in North Carolina since that year.

Many human activities, such as fuel combustion, motor vehicle operation, industrial processes, grass mowing, agricultural tilling and open burning, emit PM. Natural sources include windblown dust, forest fires, volcanic eruptions and plant pollen.

$\text{PM}_{2.5}$ can cause health problems affecting the respiratory system, including aggravation of existing lung and heart disease, limitation of lung clearance, changes in form and structure of organs and the development of cancer. Individuals most sensitive to the effects of PM include those with chronic obstructive lung or heart disease, those suffering from the flu, asthmatics, the elderly and children.

Table 8 summarizes the national primary, secondary and North Carolina ambient air quality standards in effect during the study.

Table 8. National and North Carolina Ambient Air Quality $\text{PM}_{2.5}$ Standards.

Pollutant/ Ambient Measurement/ (Reference)	Averaging Period	Type of Summary	Primary National (Health Related) Standard	Secondary National (Welfare Related) Standard	North Carolina Standard
Particle Pollution ($\text{PM}_{2.5}$) (40CFR50, App. N)	1 year	Annual mean, averaged over 3 years	12 $\mu\text{g}/\text{m}^3$	15 $\mu\text{g}/\text{m}^3$	12 $\mu\text{g}/\text{m}^3$
	24 hours	98 th percentile, averaged over 3 years	35 $\mu\text{g}/\text{m}^3$	35 $\mu\text{g}/\text{m}^3$	35 $\mu\text{g}/\text{m}^3$

5.2 MONITORING METHODOLOGY

The DAQ conducted ambient monitoring for calendar years 2014 through 2016. The DAQ continuously measured $\text{PM}_{2.5}$ data using Met One Instruments, Inc. BAM-1020 $\text{PM}_{2.5}$ samplers at all three sites. All air monitoring sampling and analysis methods followed reference methodologies published by the EPA.¹¹ The DAQ followed manufacturer's operating manuals, agency standard operating procedures and preventative maintenance procedures.

¹¹ U.S. EPA, List of Designated and Equivalent Methods, available on the worldwide web at https://www.epa.gov/sites/production/files/2018-01/documents/amtic_list_dec_2017_update_1-20-2018_0.pdf, accessed May 25, 2018.

5.3 SUMMARY OF MONITORING DATA

Figure 10 displays the ranked 24-hour average PM_{2.5} concentrations at Candor for 2014, 2015 and 2016. All three years show a similar pattern with most concentrations falling within the range of 5 to 15 micrograms per cubic meter or µg/m³. Table 9 summarizes the 98th percentile and average 24-hour average PM_{2.5} concentrations at Candor for the three years. These statistics show a downward trend from 2014 to 2016. Please note that the annual averages used in this report are not the same as the weighted annual averages used to calculate design values, although the annual average and weighted annual average will be very close to one another.

Figure 10. Ranked 24-Hour Average PM_{2.5} Concentrations at Candor.

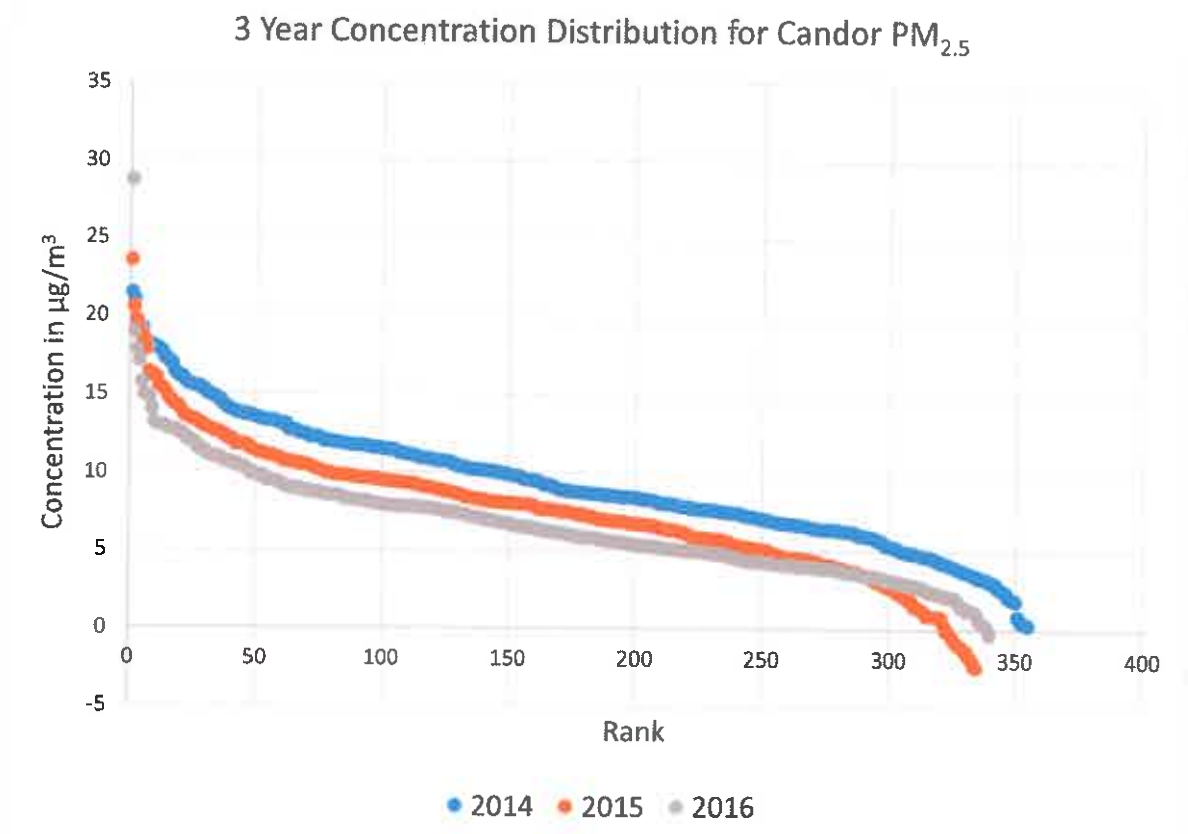


Table 9. Candor 98th Percentile and Annual Average of 24-Hour Average PM_{2.5} Concentrations.

Candor	2014	2015	2016	Three-Year Average Value for 2014-2016
Annual Average, µg/m ³	9.3	7.6	6.6	7.8
98 th Percentile, µg/m ³	18.2	18.0	14.9	17

Figure 11 displays the ranked 24-hour average PM_{2.5} concentrations at Blackstone for 2014, 2015 and 2016. All three years show a similar pattern with most concentrations falling within the range of 5 to 15 µg/m³. Table 10 summarizes the 98th percentile and average 24-hour average PM_{2.5} concentrations at Blackstone for the three years. These statistics show an increase in PM_{2.5} in 2015. This increase in 2015 is most likely due to the loss of three months of data from Feb. 23 to March 16, April 9 to May 8 and June 30 to July 23. Almost all data lost were due to problems with tape breaks caused by high humidity and improper orientation of the downtube, which caused punctures in the tape.

Figure 11. Ranked 24-Hour Average PM_{2.5} Concentrations at Blackstone.

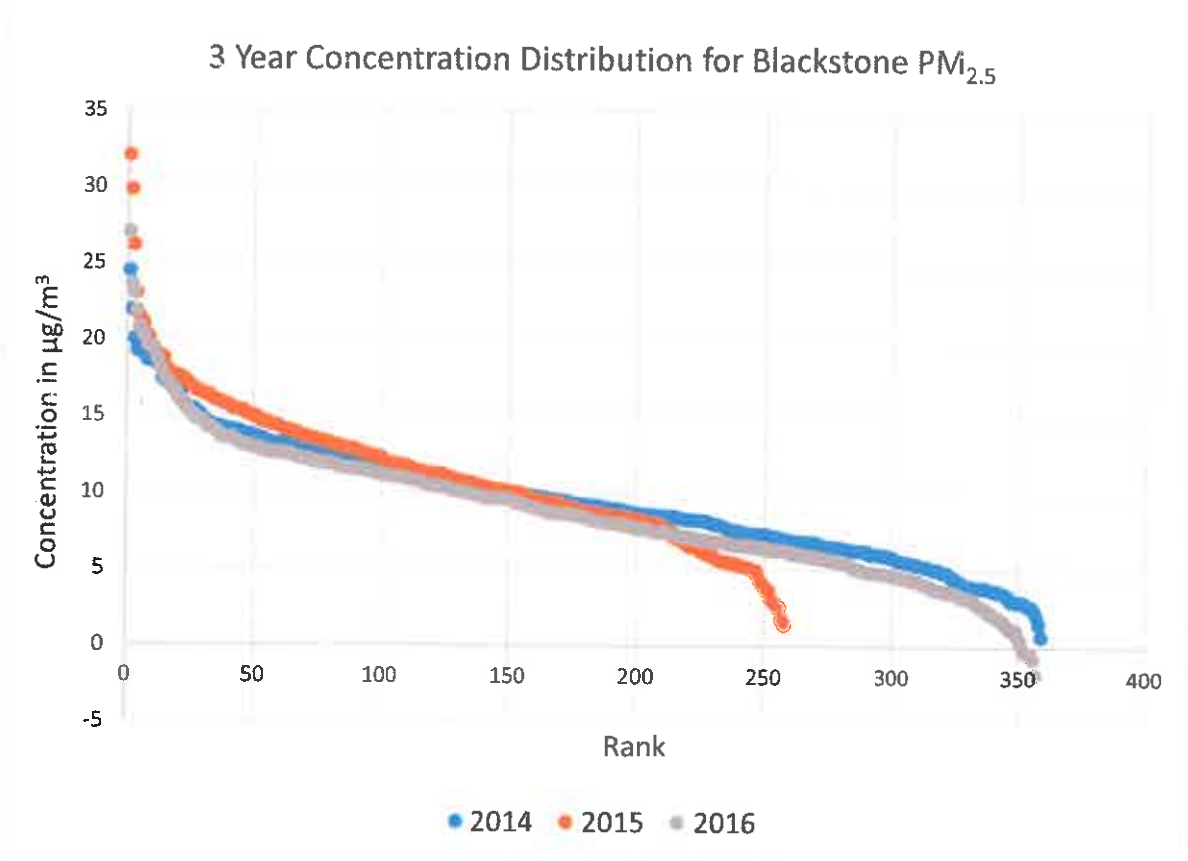


Table 10. Blackstone 98th Percentile and Annual Average of 24-Hour Average PM_{2.5} Concentrations.

Blackstone	2014	2015	2016	Three-Year Average Value for 2014-2016
Annual Average, µg/m ³	9.5	11.3	8.8	9.9
98 th Percentile, µg/m ³	18.9	21.5	20.1	20

Figure 12 displays the ranked 24-hour average PM_{2.5} concentrations at Millbrook for 2014, 2015 and 2016. All three years show a similar pattern with most concentrations falling within the range of 10 to 20 µg/m³. Table 11 summarizes the 98th percentile and average 24-hour average PM_{2.5} concentrations at Millbrook for the three years. These statistics show a downward trend for the annual average for the three-year period but an increase in the 98th percentile concentration in 2015.

Figure 12. Ranked 24-Hour Average PM_{2.5} Concentrations at Millbrook.

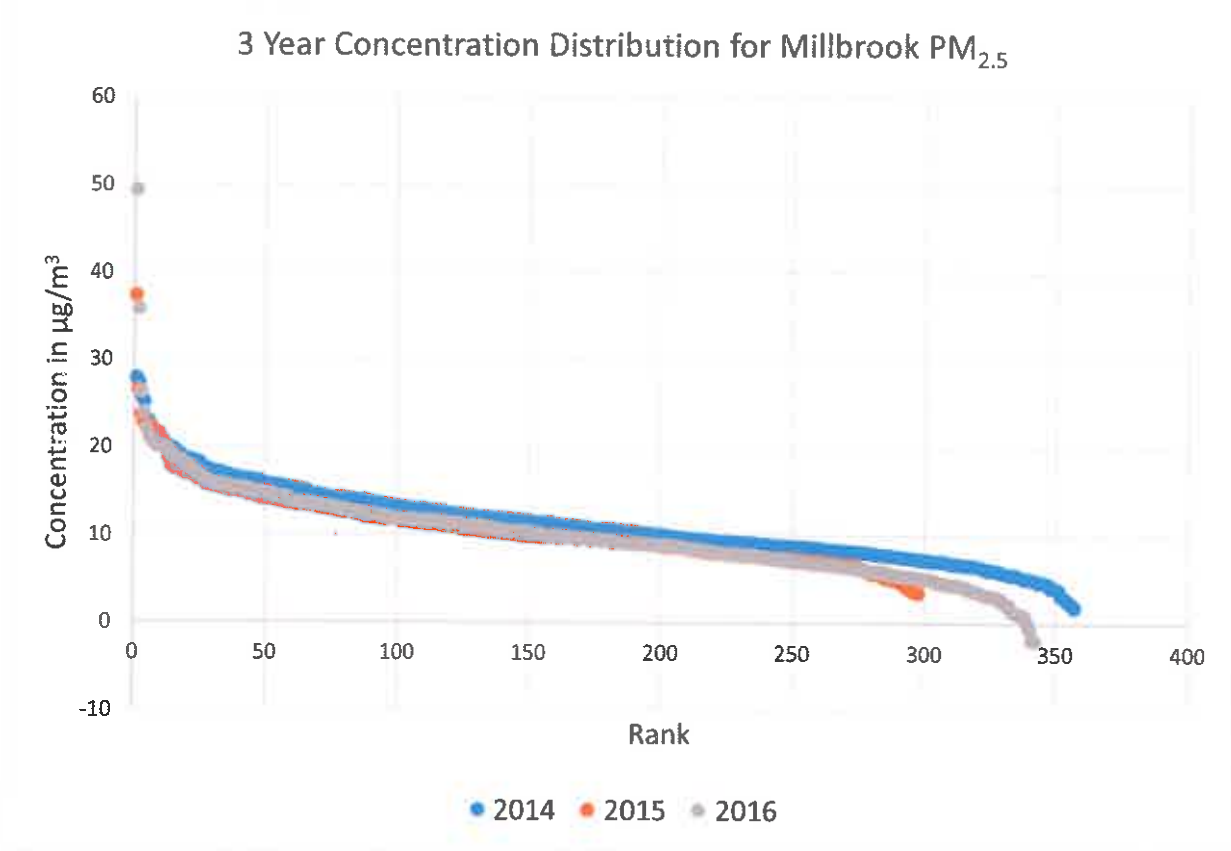


Table 11. Millbrook 98th Percentile and Annual Average of 24-Hour Average PM_{2.5} Concentrations.

Millbrook	2014	2015	2016	Three-Year Average Value for 2014-2016
Annual Average, µg/m ³	11.2	10.8	10.0	10.7
98 th Percentile, µg/m ³	22.1	22.2	20.8	22

Figure 13 and Figure 14 display the trends in the annual means and the 98th percentile of the 24-hour PM concentrations at Candor, Blackstone and Millbrook for 2014, 2015 and 2016. Candor and Millbrook show similar trends. The PM concentrations at Blackstone increased during 2015.

Figure 13. Annual Average PM_{2.5} Concentration at Candor, Blackstone and Millbrook.

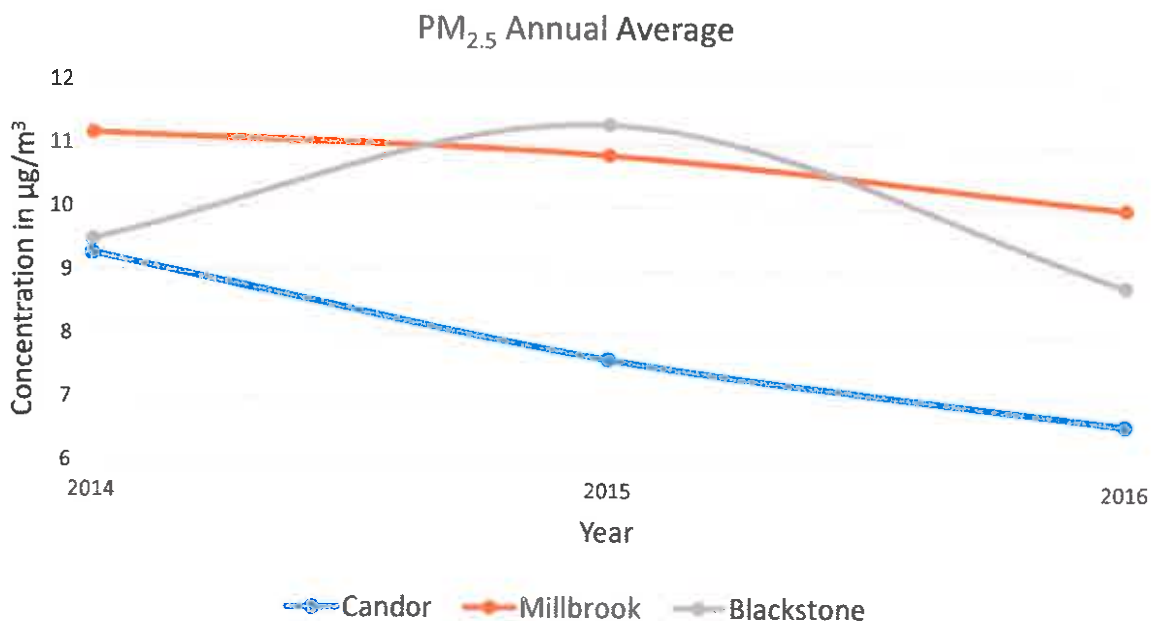
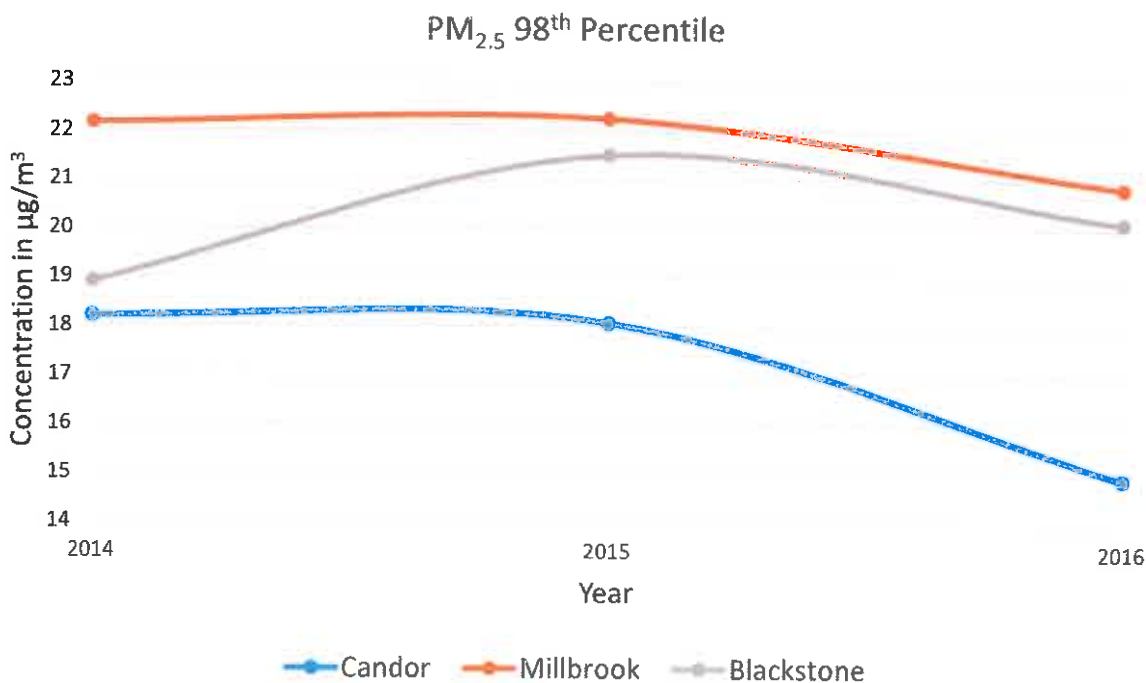


Figure 14. 98th Percentile PM_{2.5} Concentrations at Candor, Blackstone and Millbrook.



5.4 STATISTICAL ANALYSIS

The Wilcoxon test is a nonparametric test that compares two paired groups. The DAQ used it to test whether a statistically significant difference exists between two populations that have the same continuous distribution. The test essentially calculates the difference between each set of pairs and analyzes these differences. Table 12 and Table 13 provide the results of the Wilcoxon Statistical Tests.

Table 12. Wilcoxon Statistical Test for PM_{2.5} between Candor and Blackstone.

	2014	2015	2016
α	0.05	0.05	0.05
Tails	2	2	2
W (Candor)	200	150	140
W (Blckstn)	265	315	325
W_crit	184	184	184
	(200>184)	(150<184)	(140<184)

Based on the results of the Wilcoxon Statistical Test, the DAQ lacks sufficient evidence to conclude the 98th percentile PM_{2.5} data at Blackstone differ from the 98th percentile PM_{2.5} data at Candor in 2014. The DAQ has statistically significant evidence at $\alpha = 0.05$ to show that the 98th percentile PM_{2.5} data at Blackstone differ from the 98th percentile PM_{2.5} data at Candor in 2015 and 2016.

Table 13. Wilcoxon Statistical Test for PM_{2.5} between Millbrook and Blackstone.

	2014	2015	2016
α	0.05	0.05	0.05
Tails	2	2	2
W(Millbrook)	324	258	269
W(Blckstn)	141	207	196
W_crit	184	184	184
	(141<184)	(207>184)	(196>184)

We do not have sufficient evidence to conclude that the 98th percentile PM_{2.5} data at Blackstone differ from 98th percentile PM_{2.5} data at Millbrook in 2015 and 2016. We have statistically significant evidence at $\alpha = 0.05$ to show that the 98th percentile PM_{2.5} data at Blackstone differ from 98th percentile PM_{2.5} data at Millbrook in 2014.

5.5 CONCLUSION

This portion of the study was conducted to determine baseline PM levels in Lee County prior to shale gas well development and extraction. Because the DAQ used the same monitoring equipment at all three sites and operated them following the same procedures, the DAQ can directly compare the datasets collected at the Lee County air monitoring site and the two existing sites in Candor and Raleigh. This ability to compare the data helped characterize air quality upwind and downwind of the Sanford sub-basin.

Table 14 presents the three-year average for 2014 to 2016 for the annual averages and 98th percentiles of the 24-hour averages. On average, the Candor upwind monitoring site showed the lowest PM values, the Millbrook downwind monitoring site showed the highest PM values and the Blackstone site showed PM values between the other two sites. Further statistical analysis indicates there is evidence that these differences in PM levels are not due to random chance but rather to the specific surroundings near each monitoring site, with the more populated areas having higher PM values.

Table 14. Three Year Average and 98th Percentile PM_{2.5} Concentrations in µg/m³ at All Sites.

	Three Year Average	Three Year Average 98th
Candor	7.8	17.0
Blackstone	9.9	20.0
Millbrook	10.7	22.0

6.0 OXIDES OF NITROGEN

6.1 INTRODUCTION

Several gaseous forms of NO_x are normally found in the atmosphere, including nitrous oxide or N₂O, nitric oxide or NO and nitrogen dioxide, or NO₂. Nitrous oxide is a stable gas with anesthetic characteristics. Ambient concentrations are typically well below the threshold concentration for a biological effect. Nitric oxide is a colorless gas with ambient concentrations generally low enough to have no significant biological effect. Nitrogen dioxide is reddish-brown, but is not usually visible at normal ambient concentrations.

The most significant NO_x emissions result from the burning of fossil fuels such as coal, oil and gasoline, due to the oxidation of atmospheric nitrogen and nitrogen compounds in the fuel. The primary combustion product is NO, which reacts to form NO₂.

At high concentrations, nitrogen dioxide has significant health effects as a pulmonary irritant, especially upon asthmatics and children. In North Carolina, a much greater health concern is the formation of ozone, because the presence of NO₂ and other NO_x promote its formation.

Some types of vegetation are very sensitive to NO₂, including oats, alfalfa, tobacco, peas and carrots. Chronic exposure causes chlorosis (yellowing) and acute exposure usually causes irregularly shaped lesions on the leaves.

Nitric oxide and NO₂ do not directly damage materials. However, NO₂ can react with moisture in the air to produce nitric acid, which corrodes metal surfaces and contributes to acid rain. High concentrations of NO₂ may reduce visibility. Much of the brownish coloration sometimes observed in polluted air in winter months may be due to NO₂.

Table 15 summarizes the national primary, secondary and North Carolina ambient air quality standards that were in effect during the study.

Table 15. National and North Carolina Ambient Air Quality Nitrogen Dioxide Standards.

Pollutant/ Ambient Measurement/ (Reference)	Averaging Period	Type of Summary	Primary National (Health Related) Standard	Secondary National (Welfare Related) Standard	North Carolina Standard
Nitrogen Dioxide (NO ₂)	1 hour	98 th percentile of 1 hour daily maximum concentrations, averaged over 3 years	100 ppb		100 ppb
	1 year	Annual mean	53 ppb	53 ppb	53 ppb

6.2 MONITORING METHODOLOGY

The DAQ conducted ambient monitoring for calendar years 2014 through 2016 at the Millbrook site and from December 2014 through 2016 for the Blackstone site. The DAQ continuously measured NO, NO₂ and NO_x using a

Teledyne Model T200UP NO-NO₂-NO_x Analyzer which uses a photolytic convertor to convert NO₂ to NO. All air monitoring sampling and analysis methods followed reference methodologies published by the EPA.¹² The DAQ followed equipment manufacturer's operating manuals, agency standard operating procedures and preventative maintenance procedures.

6.3 SUMMARY OF MONITORING DATA

This report compares and discusses NO₂ data for two sites, Blackstone and Millbrook, during calendar years 2014, 2015 and 2016. Data analysis for calculating the 98th percentile values was performed by taking the highest hourly measurement for each day reporting 18 or more hours of data. From these numbers the 98th percentile was selected for each calendar period. The annual average was calculated by taking all of the hourly values for the calendar year and averaging them.

The Blackstone monitor reported the highest one-hour NO₂ measurement for each of the 695 days sampled from December 2014 through the end of 2016. Table 16 gives the 98th percentile concentrations and the annual arithmetic means of the NO₂ data. The arithmetic means are about 2 percent of the annual standard and the 98th percentile values are about 8 percent of the hourly standard.

Table 16. Blackstone Annual Average and 98th Percentile of 1-Hour Average NO₂ Concentrations.

Blackstone	2014	2015	2016	Two Year Average Value
Annual Average, ppb	*	1.39	1.17	1.28
98 th Percentile, ppb	*	9	7	8
*Sample size too small to meet statistical standards for reliability				

The Millbrook monitor reported the highest one-hour NO₂ measurement for each of the 1,060 days sampled over the three-year period. Table 17 gives the 98th percentile concentrations and the annual arithmetic means of the NO₂ data. The arithmetic means are about 11 percent of the annual standard and the 98th percentile values are about 37 percent of the hourly standard.

¹² U.S. EPA, List of Designated and Equivalent Methods, available on the worldwide web at https://www.epa.gov/sites/production/files/2018-01/documents/amtic_list_dec_2017_update_1-20-2018_0.pdf, accessed May 25, 2018.

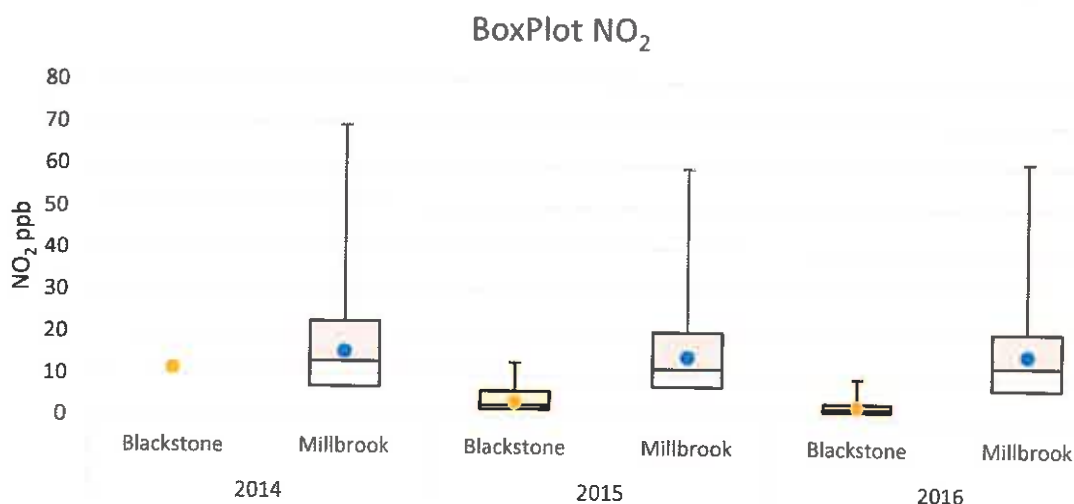
Table 17. Millbrook Annual Average and 98th Percentile of 1-Hour Average NO₂ Concentrations.

Millbrook	2014	2015	2016	Three Year Average Value
Annual Average, ppb	6.01	5.64	5.64	5.76
98 th Percentile, ppb	39	32	39	37.7

6.4 STATISTICAL ANALYSIS

The DAQ generated box plots to compare nitrogen dioxide concentration statistics at both sites. Figure 15 displays the box plots. The box plot presents the following information. The upper whisker represents the maximum, excluding outliers. The top of the box represents the first quartile. Twenty-five percent of the measured values are greater than this value. The dot in the box represents the mean. The line inside the box represents the median. Fifty percent of the measured values are greater than this value and 50 percent are lower. The bottom of the box represents the third quartile. Twenty-five percent of the measured values are less than this value. As expected the box plots show that the NO₂ concentrations at Millbrook tend to be higher than those measured at Blackstone.

Figure 15. Box Plots of Daily Maximum 1-Hour Average Nitrogen Dioxide Concentrations at Blackstone and Millbrook.



*2014 sample size at Blackstone is too small to meet statistical standards for reliability

Figure 16 displays the trends in the annual average of 1-hour NO₂ concentrations and Figure 17 displays the trends in the 98th percentile of the maximum daily 1-hour concentrations at Blackstone and Millbrook for 2014, 2015 and 2016. The annual average 1-hour NO₂ concentrations show a similar trend with time while the 98th percentile of the maximum daily 1-hour concentrations at Millbrook and Blackstone display a different trend going from 2015 to 2016.

Figure 16. Nitrogen Dioxide Annual Average Concentrations at Blackstone and Millbrook.

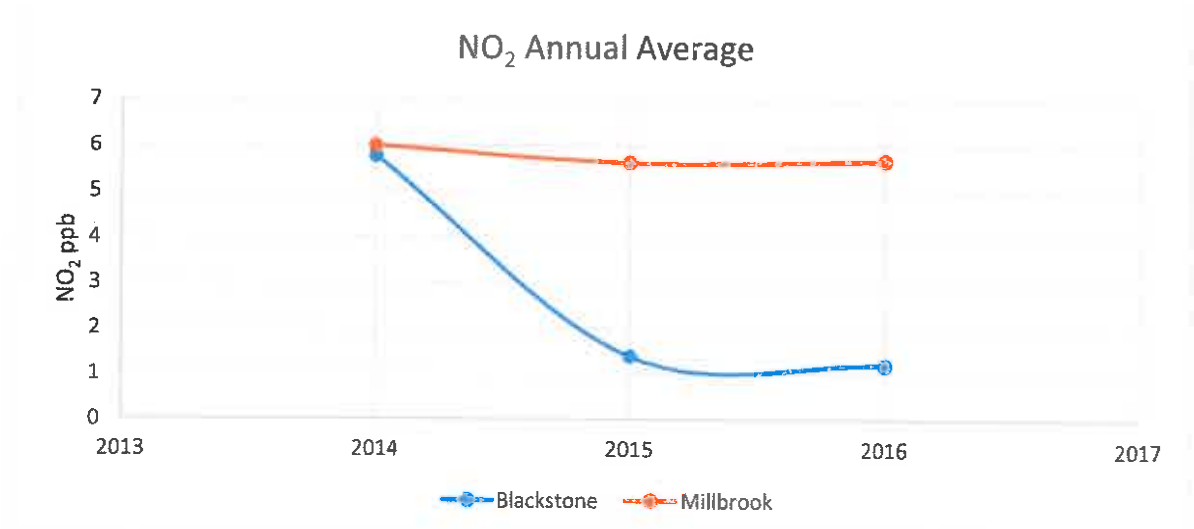


Figure 17. Nitrogen Dioxide 98th Percentile Concentrations at Blackstone and Millbrook.

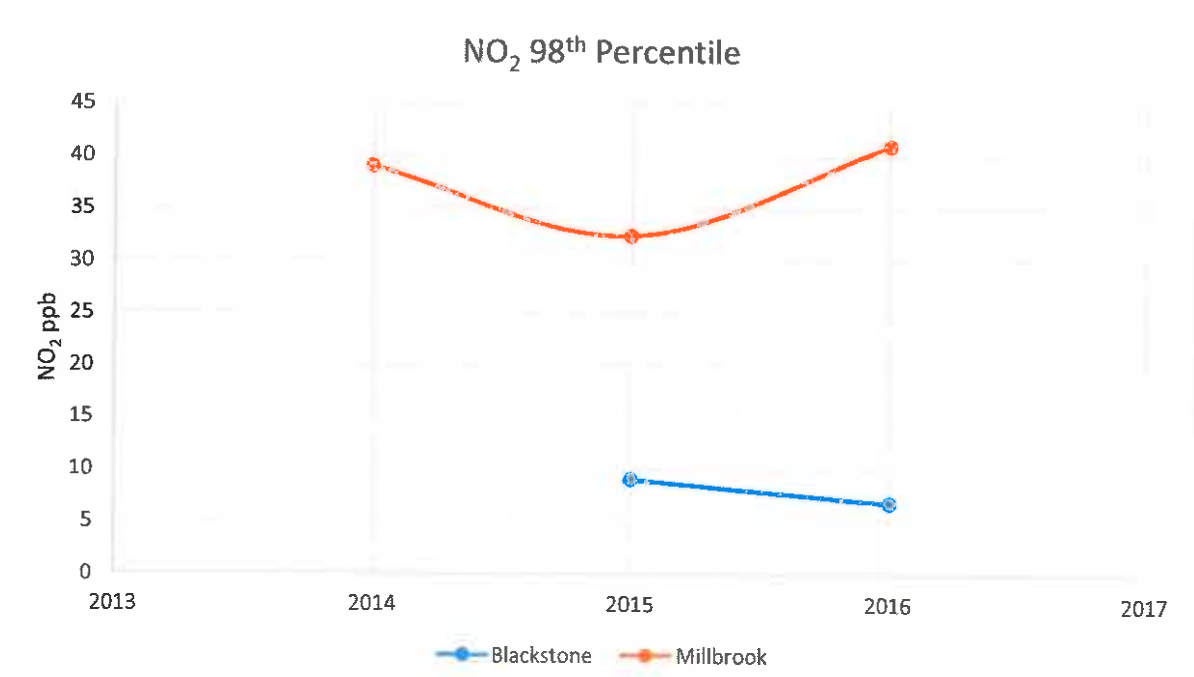


Figure 18 and Figure 19 displays the ranked maximum daily 1-hour NO₂ concentrations at Blackstone and Millbrook for 2014, 2015 and 2016, respectively. Note that the Blackstone plot uses a logarithmic scale for concentration and both plots use a logarithmic scale for the rank. At Blackstone, most of the daily maximum 1-hour average NO₂ concentrations are less than 10 parts per billion. At Millbrook about half the daily maximum 1-hour average NO₂ concentrations are between 10 and 40 parts per billion.

Figure 18. Ranked Nitrogen Dioxide Daily Maximum 1-Hour Average Concentrations at Blackstone.

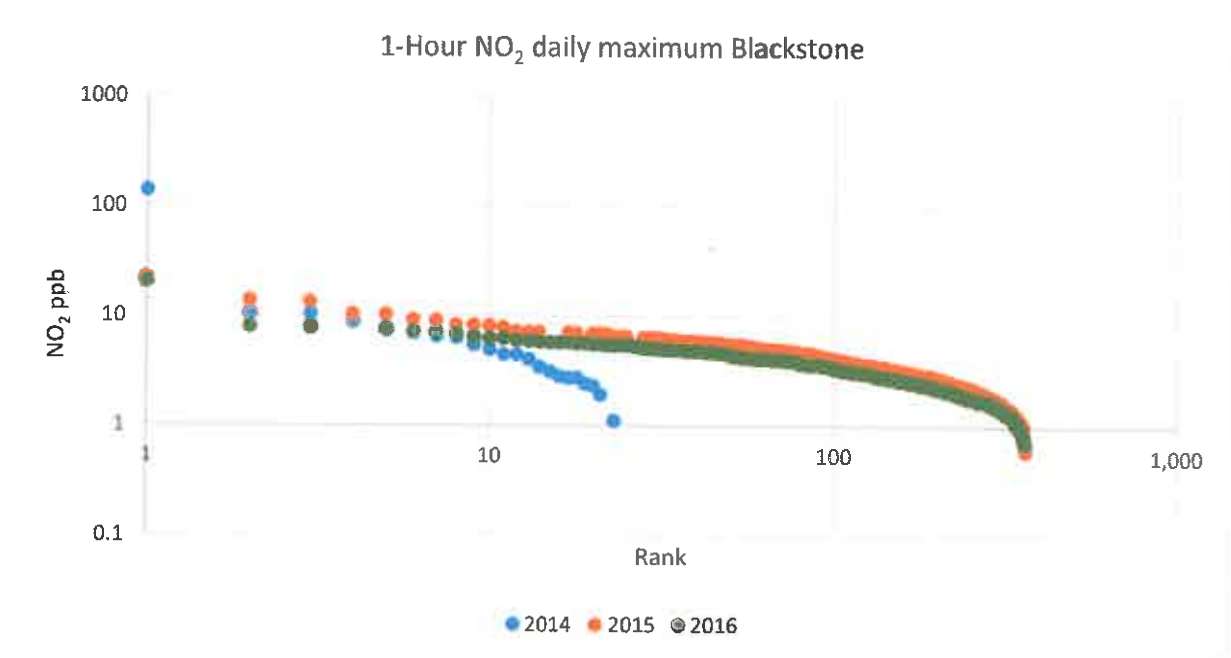
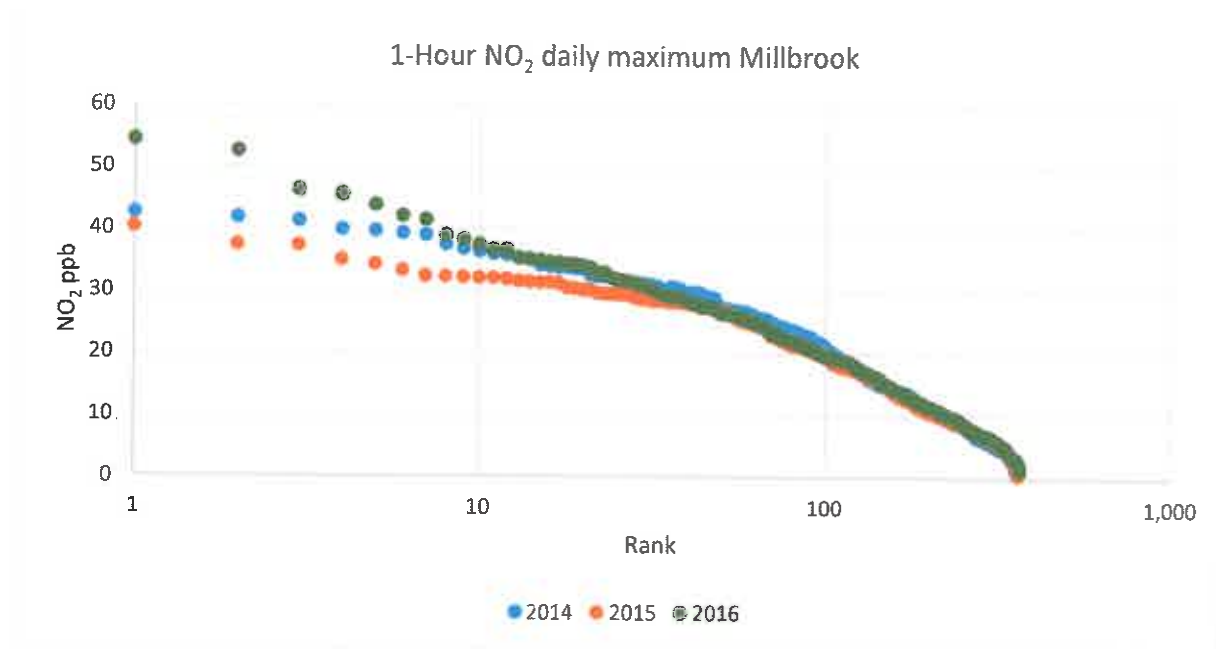


Figure 19. Ranked Nitrogen Dioxide Daily Maximum 1-Hour Average Concentrations at Millbrook.



6.5 CONCLUSION

The DAQ conducted this portion of the study to determine baseline NO₂ levels in Lee County before well development, production and gas treatment. Because the DAQ used the same monitoring equipment and procedures at both locations, the DAQ can directly compare the datasets collected at the Lee County air monitoring site and Raleigh Millbrook monitoring site. In general, as shown in Table 18, the NO₂ values at the Raleigh downwind site showed the higher NO₂ values.

Table 18. Three Year Average and 98th Percentile NO₂ Concentrations.

Site	Three Year Average of Annual Average of 1-Hour Averages, ppb	Three Year Average of 98 th Percentile of 1-Hour Averages, ppb
Blackstone	1.28*	8*
Millbrook	5.763	37.7

*Two-year average only

7.0 SULFUR DIOXIDE

7.1 INTRODUCTION

The EPA listed sulfur oxides, or SO_x as one of the criteria air pollutants for which they have established a NAAQS. These standards use SO₂ as the indicator pollutant. Sulfur dioxide is a colorless, corrosive, toxic gas and is the most prevalent compound of SO_x found in our lower atmosphere. It has a pungent odor and is detectable by taste and smell at levels between 1 and 3 ppm. Sulfate aerosols are other sulfur oxides of concern; they occur at levels considerably lower than SO₂ and contribute to PM air pollution.

The combustion of fossil fuels, such as coal, distillate fuel oil and gasoline produce SO₂. There are other minor sources such as ore smelting and other industrial processes that contribute as well. These sources emit SO_x into the atmosphere. When they emit SO_x at higher levels, they can have a direct impact on human health and the environment.

Human exposure to SO₂ has been associated with reducing pulmonary function and is a respiratory irritant. Especially susceptible groups are asthmatics, the elderly and children.

Sulfur dioxide can adversely affect forests, agricultural crops and other vegetation. High ambient concentrations in the air can act as a defoliant and lead to soil acidification. The formation of sulfurous and sulfuric acids when combined with moisture can increase the pH of ground and surface waters.

Higher levels of SO₂ in the ambient air can react with moisture in the atmosphere to produce acidic precipitation, which corrodes both ferrous and non-ferrous metals, limestone, marble and sandstone. Sulfate in the presence of moisture will rapidly form sulfuric acid which is a strong acid and can further lead to the chemical erosion of buildings and monuments.

Table 19 summarizes the national primary, secondary and North Carolina ambient air quality standards that were in effect during the study.

Table 19. National and North Carolina Ambient Air Quality Sulfur Dioxide Standards.

Pollutant/ Ambient Measurement/ (Reference)	Averaging Period	Type of Summary	Primary National (Health Related) Standard	Secondary National (Welfare Related) Standard	North Carolina Standard
Sulfur Dioxide	1 hour	99 th percentile of 1-hour daily maximum concentrations, averaged over 3 years	75 ppb		75 ppb
	3 hours	Not to be exceeded more than once per year		0.5 ppm	0.5 ppm

7.2 MONITORING METHODOLOGY

The DAQ conducted ambient monitoring for calendar years 2015 through 2016 for both the Blackstone study site and the Millbrook downwind site. The DAQ continuously measured SO₂ at the Millbrook site using a Thermo 43C-TLE Enhanced Trace Level SO₂ Analyzer until being replaced later with a newer 43i-TLE model. At the Blackstone site, the DAQ used a Thermo 43C SO₂ Analyzer, which DAQ later replaced with a newer 43i model. These instruments employ pulsed fluorescence technology and optical detection to precisely measure down to parts per trillion levels and conform to EPA approved monitoring methods.¹³

7.3 SUMMARY OF MONITORING DATA

The DAQ collected SO₂ data for calendar years 2014 through 2016 for the Millbrook site and 2015 and 2016 for the Blackstone site. DAQ achieved a high degree of data capture as illustrated in Table 20.

Table 20. Number of Valid SO₂ Sampling Days at Blackstone and Millbrook.

Year	2014	2015	2016
Blackstone		360	356
Millbrook	360	347	355

When comparing the two sites, DAQ considered the 99th percentile of daily maximum 1-hour values or the values below which nominally 99 percent of all daily maximum 1-hour concentration values fall. Table 21 provides the 99th percentile of the daily maximum 1-hour averages at both sites.

Table 21. Annual 99th Percentile of Daily Maximum 1-Hour Averages.

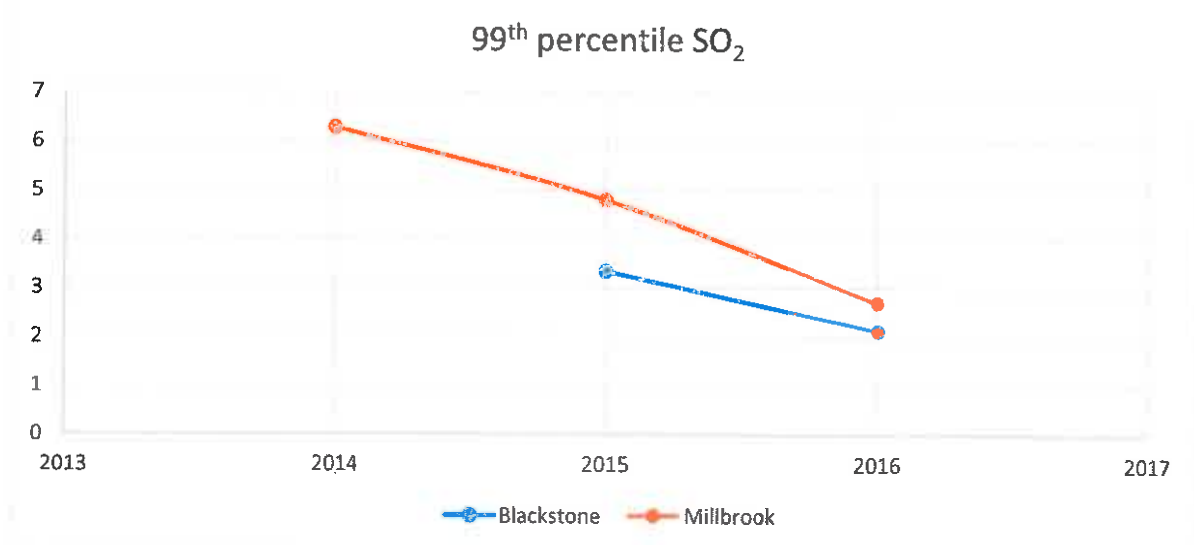
Year	2014	2015	2016
Blackstone, ppb		3	2
Millbrook, ppb	6	5	3

¹³ U.S. EPA, List of Designated and Equivalent Methods, available on the worldwide web at https://www.epa.gov/sites/production/files/2018-01/documents/amtic_list_dec_2017_update_1-20-2018_0.pdf, accessed May 25, 2018.

7.4 STATISTICAL ANALYSIS

Figure 20 displays the trend in the 99th percentile of the daily maximum 1-hour SO₂ concentrations measured at the two sites. The 99th percentile at both sites declined over the study period. As expected, the DAQ measured lower SO₂ concentrations at the Blackstone site.

Figure 20. 99th Percentile Daily Maximum 1-Hour SO₂ Concentrations (PPB).



7.5 CONCLUSION

The DAQ conducted this portion of the study to determine baseline SO₂ levels in Lee County before any well development, production and gas treatment. The DAQ collected the data using methods and procedures that allows direct comparability of the collected data at the Lee County and the downwind site at Millbrook. The SO₂ values at Millbrook showed the highest concentrations. Both sites appeared to exhibit a downward trend with overall lower concentrations in the ambient air in 2016.

8.0 ALDEHYDES

8.1 INTRODUCTION

Atmospheric aldehydes contribute to ozone formation through complex chemical reactions in the atmosphere. Potential sources of atmospheric aldehydes include mobile sources, industrial emissions, non-mobile sources, farming and agriculture. Additional aldehyde emission sources include oil and gas extraction and combustion of various fossil fuels.

8.2 MONITORING METHODOLOGY

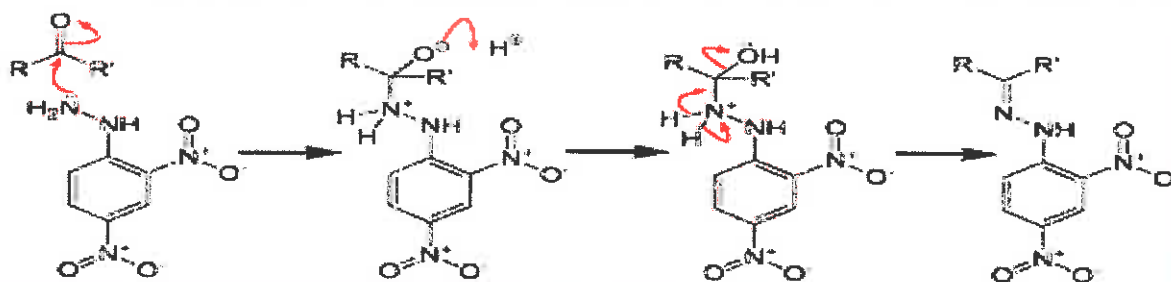
The DAQ collected atmospheric aldehydes using established EPA methods and procedures¹⁴ using ATEC 2200 air samplers that pull a known volume of ambient air through a sampling cartridge. The supplier packs the sampling cartridge, shown in Figure 21, with a bed of silica beads coated with dinitrophenylhydrazone, or DNPH. The DNPH reacts with the aldehyde as shown in Figure 22 to form a DNPH-aldehyde derivative that DAQ quantified using chromatographic techniques.

Figure 21. DNPH Sampling Cartridge.



¹⁴ U.S. EPA, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, Compendium Method TO-11A, Determination of Formaldehyde in Ambient Air Using Adsorbent Cartridge Followed by High-Performance Liquid Chromatography (HPLC), January 1999, available on the worldwide web at <https://www3.epa.gov/ttn/amtic/files/ambient/airtox/to-11a.pdf>, accessed May 25, 2018.

Figure 22. The DNPH Reaction Mechanism with Atmospheric Aldehydes and Ketones.



The field operator retrieves the sampled cartridges within 24-hours of collection and sends them to the North Carolina DAQ Laboratory Analysis Branch, or LAB, for extraction and analysis. At the LAB, the analyst removes the collected DNPH-aldehydes from the sampling cartridge via liquid extraction using a known volume of acetonitrile. The analyst separates and quantifies the DNPH-aldehyde extracts using an HPLC system fitted with a reversed phase separation column and multi-wavelength detector. To identify and quantify the ambient air sample extracts, the analyst compares the DNPH-aldehyde derivatives to known National Institute of Standards and Technology, or NIST, traceable DNPH-aldehyde derivative standards.

Aldehyde samples are collected on a six-day frequency, following the national sampling schedule,¹⁵ and are collected over a 24-hour period from midnight to midnight local standard time, that is Eastern Standard Time. Sample volume is determined using calibrated mass flow controllers at standard atmospheric conditions.

8.3 SUMMARY OF MONITORING DATA

This report discusses aldehyde data for all three sites during calendar years 2014, 2015 and 2016. This report focuses on comparing two main aldehyde compounds - formaldehyde and acetaldehyde - because they are the most predominant aldehydes found in the atmosphere. During this timeframe, the DAQ collected on DNPH cartridges a total of 756 aldehyde samples from all three sites. The total number of valid samples from all three sites was 738 DNPH cartridges. The sample completeness during this three-year period was 96 percent. The DAQ attributed the 18 missed or invalid DNPH cartridges to sample collection errors, power failures and laboratory errors.

8.4 STATISTICAL ANALYSIS

The DAQ compared the annual average concentration of formaldehyde and acetaldehyde at Candor, Blackstone and Millbrook. Figure 23 and Figure 24 present the trends in the annual average concentrations. Secondly, the DAQ generated box plots to compare formaldehyde and acetaldehyde concentration statistics at all three sites. Figure 25 and Figure 26 display the box plots.

¹⁵ U.S. EPA, Sampling Schedule Calendar, available on the worldwide web at <https://www3.epa.gov/ttn/amtic/calendar.html>, accessed May 24, 2018.

Figure 23. Annual Average Formaldehyde Concentrations.

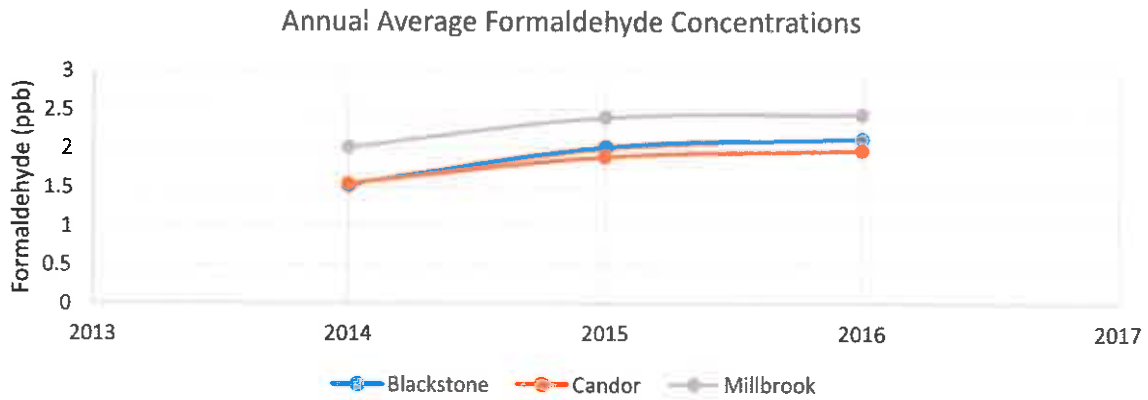


Figure 24. Annual Average Acetaldehyde Concentrations.

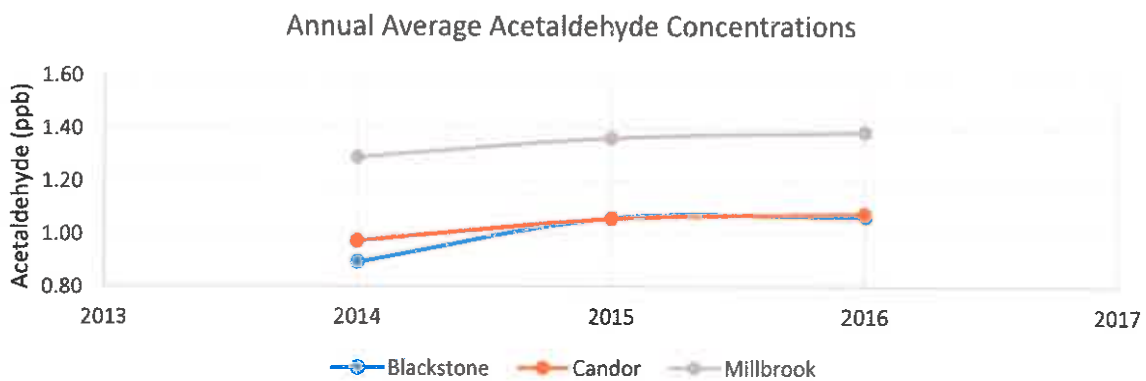


Figure 25. Box Plots of Formaldehyde Concentrations (PPB).

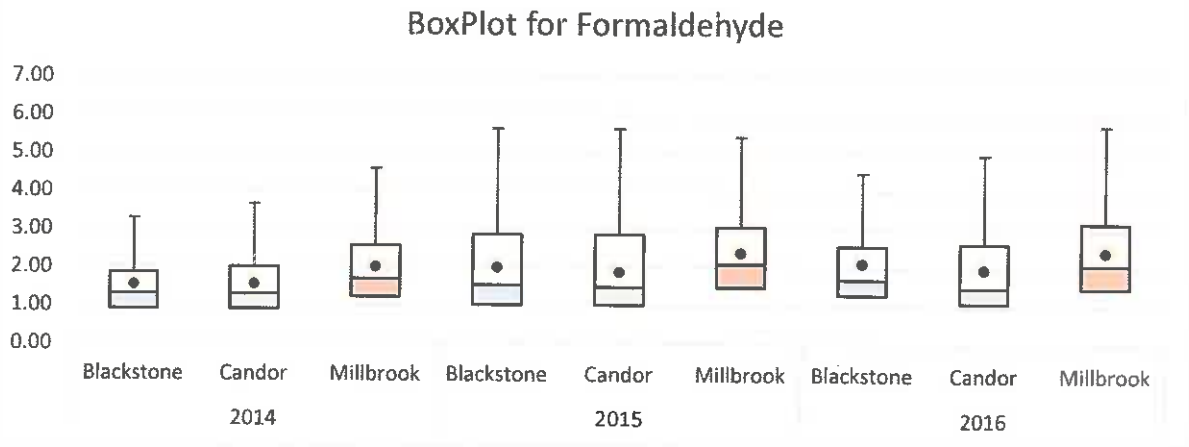
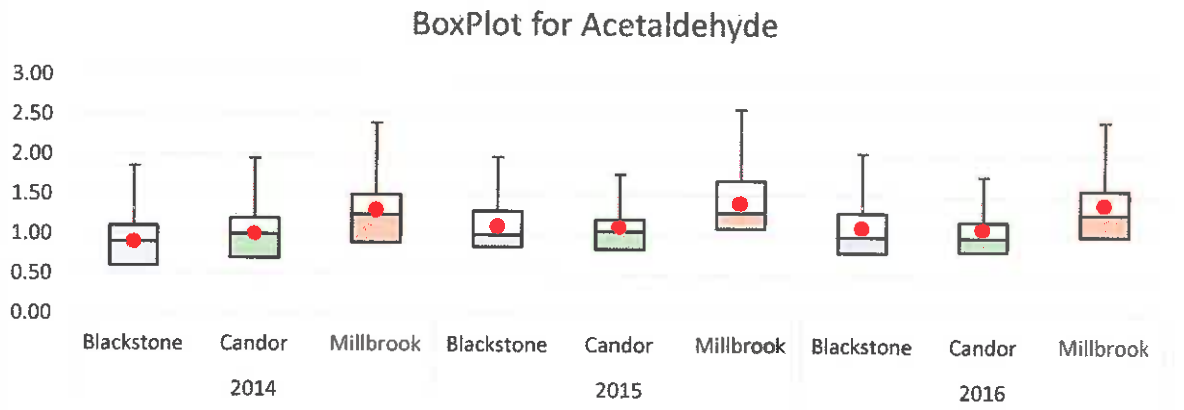


Figure 26. Box Plots of Acetaldehyde Concentrations (PPB).



8.5 CONCLUSION

The annual average formaldehyde and acetaldehyde concentration charts shows similar concentrations at Blackstone and Candor. One can use annual average aldehyde concentrations to deduce the urbanization of each site. One would expect formaldehyde and acetaldehyde concentrations at Candor to be the lowest values because Candor is a rural site. Based on the data collected during the study the following trend holds true, Millbrook detected the highest values of formaldehyde and acetaldehyde meaning it was the most urban site. Blackstone detected concentrations values somewhere between Candor and Millbrook. Specifically, formaldehyde values at Blackstone were much closer to Candor with a measured annual average difference between the two sites of approximately 0.15 ppb in 2016. Alternatively, the difference between measured annual average formaldehyde values at Blackstone and Millbrook was approximately 0.43 ppb in 2016.

The DAQ expected to see this larger difference between the measured values at Millbrook and Blackstone because the Millbrook site is in a larger urban area than Blackstone. The box plots of formaldehyde and acetaldehyde at all

three sites show a similar trend with Blackstone and Candor concentration statistics being more alike than the concentration statistics between Blackstone and Millbrook.

9.0 VOLATILE ORGANIC COMPOUNDS (VOC)

9.1 INTRODUCTION

Volatile organic compounds contribute to ozone formation through complex chemical reactions in the atmosphere. Potential sources of VOCs include mobile sources, industrial emissions, non-mobile sources, farming and agriculture. Additional VOC emission sources include oil and gas extraction and combustion of various fossil fuels. The VOC compounds of interest include benzene, toluene, ethylbenzene, xylenes, hexanes, 2,2,4 trimethylpentane and styrene.

9.2 MONITORING METHODOLOGY

DAQ collected and analyzed the VOCs following established EPA methods and procedures.¹⁶ The DAQ used a Xontech 911 air sampler to force ambient air into 6-liter Summa canisters to a predetermined final canister pressure. The DAQ cleaned and certified the canisters at the LAB using established procedures before sending them to the field. The field operators shipped the sampled canisters to the LAB where the analyst checks the canister for leaks and analyzes the samples by gas chromatography mass spectrometry. The DAQ analyst compared the sampled canister analysis results to known NIST-traceable VOC standards. The vendor provides approximately 75 VOCs in the NIST-traceable standard.

The DAQ collected VOC samples on a six-day frequency following the EPA national sampling calendar.¹⁷ The DAQ collected VOC samples over a 24-hour period from midnight to midnight local standard time, or Eastern Standard Time in North Carolina. The DAQ determined the sample volume collected using certified pressure gauges calibrated at standard atmospheric conditions, or 25 degrees Celsius and 760 millimeters mercury.

9.3 SUMMARY OF MONITORING DATA

This report discusses VOC data for all three sites during calendar years 2014, 2015 and 2016.

Based on available study data and the DAQ's Blackstone site project plan, VOCs associated with oil and gas extraction emissions include benzene, toluene, ethylbenzene, xylenes, hexanes, 2,2,4-trimethylpentane and styrene. The 2,2,4-trimethylpentane and styrene concentrations detected during the study period were too low to create meaningful annual average concentration charts or box plots. This report will not further discuss these compounds due to their concentration values being at or below reportable limits throughout the study period.

The total number of VOC canister samples collected from all three sites during this timeframe was 789 canisters. The total number of valid samples from all three sites was 755 canisters. The sample completeness during this

¹⁶ U.S. EPA, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, Compendium Method TO-15, Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS), January 1999, available on the worldwide web at <https://www3.epa.gov/ttn/amtic/files/ambient/airtox/to-15r.pdf>, accessed May 25, 2018.

¹⁷ U.S. EPA, Sampling Schedule Calendar, available on the worldwide web at <https://www3.epa.gov/ttn/amtic/calendar.html>, accessed May 24, 2018.

three-year period is 96 percent. The DAQ attributed the 34 missed or invalid canisters to sample collection errors, power failures and laboratory errors.

9.4 STATISTICAL ANALYSIS

Figure 27 through Figure 32 compare the annual average concentration of benzene, toluene, ethylbenzene, xylenes, hexanes, 2,2,4-trimethylpentane and styrene at Candor, Blackstone and Millbrook. Lastly, the DAQ used box plots as a tool to compare the benzene and toluene concentration statistics between all three sites. Figure 33 through Figure 38 provide the box plots for all VOCs of interest.

Figure 27. Annual Average Benzene Concentrations at All Sites.

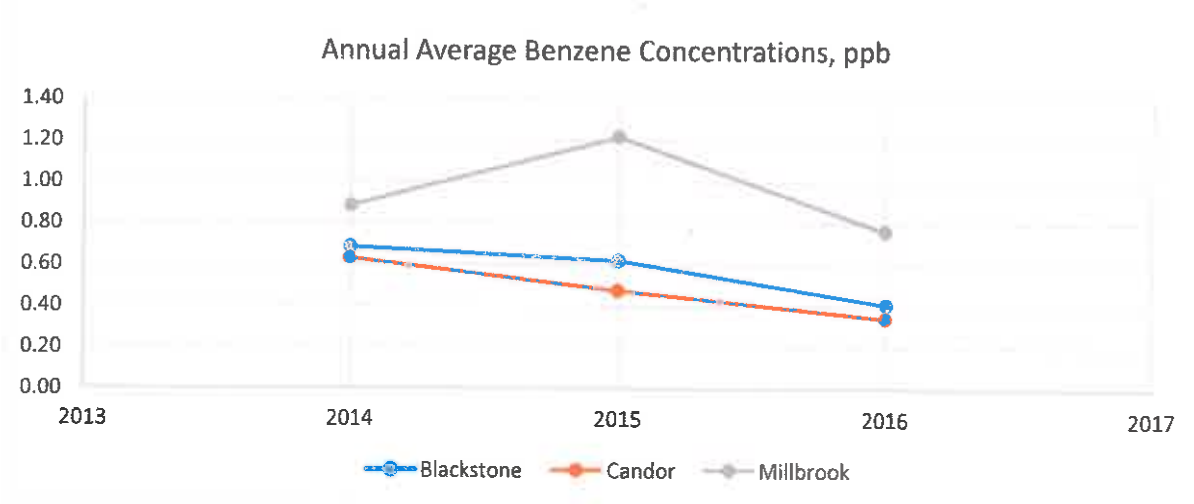


Figure 28. Annual Average Toluene Concentrations at All Sites.

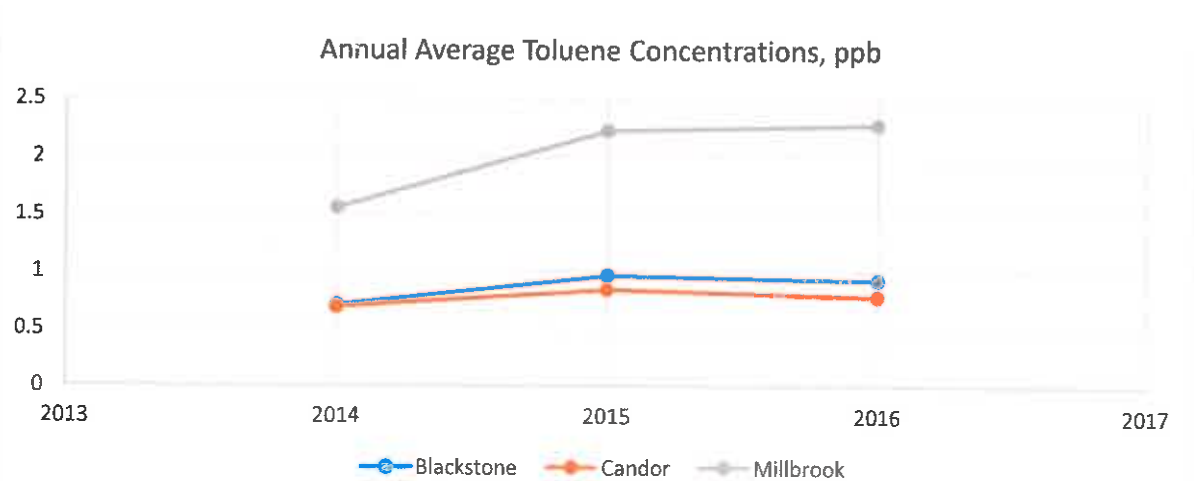


Figure 29. Annual Average Ethylbenzene Concentrations at All Sites.

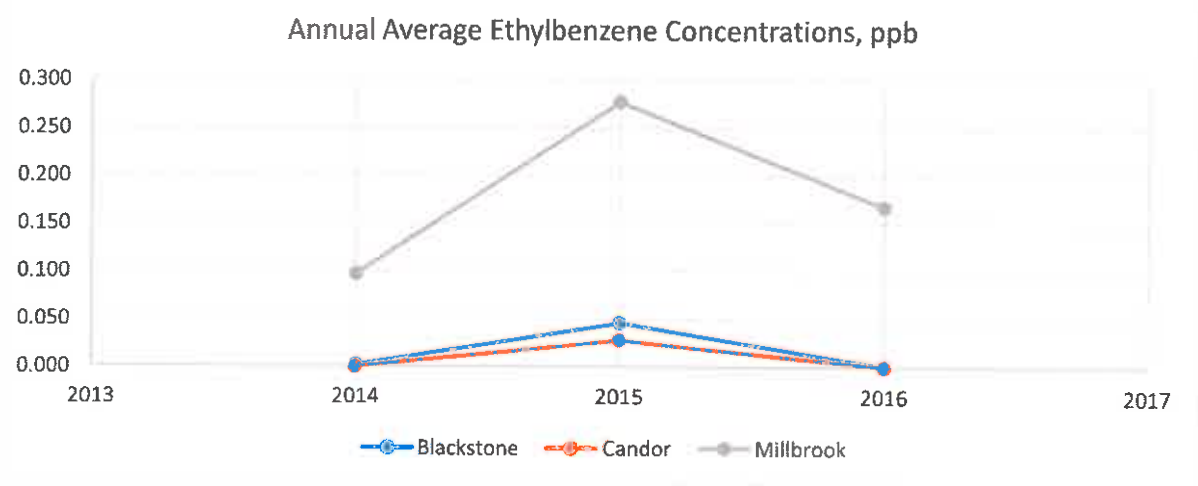


Figure 30. Annual Average m/p-Xylene Concentrations at All Sites.

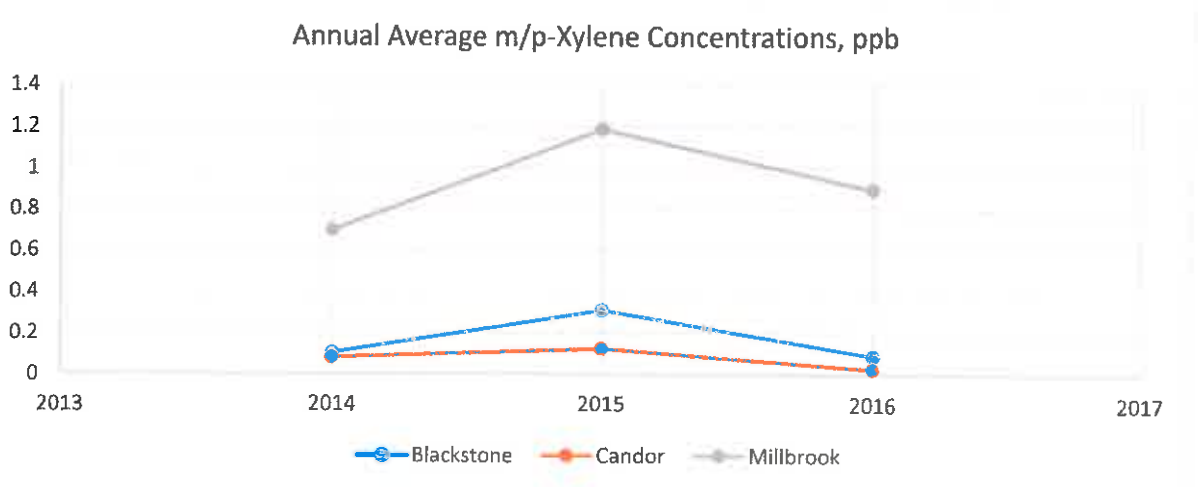


Figure 31. Annual Average o-Xylene Concentrations at All Sites.

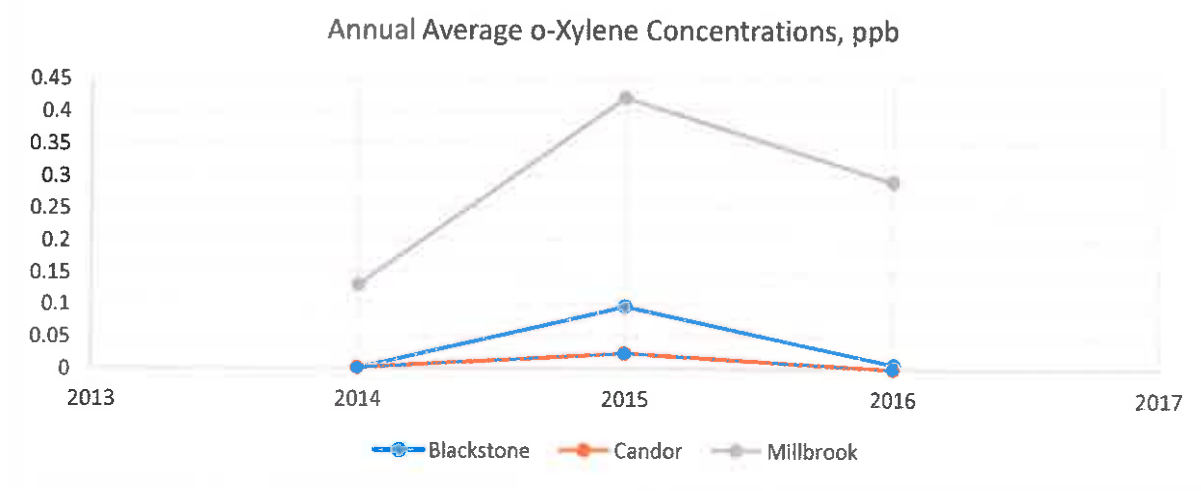


Figure 32. Annual Average n-Hexane Concentrations at All Sites.

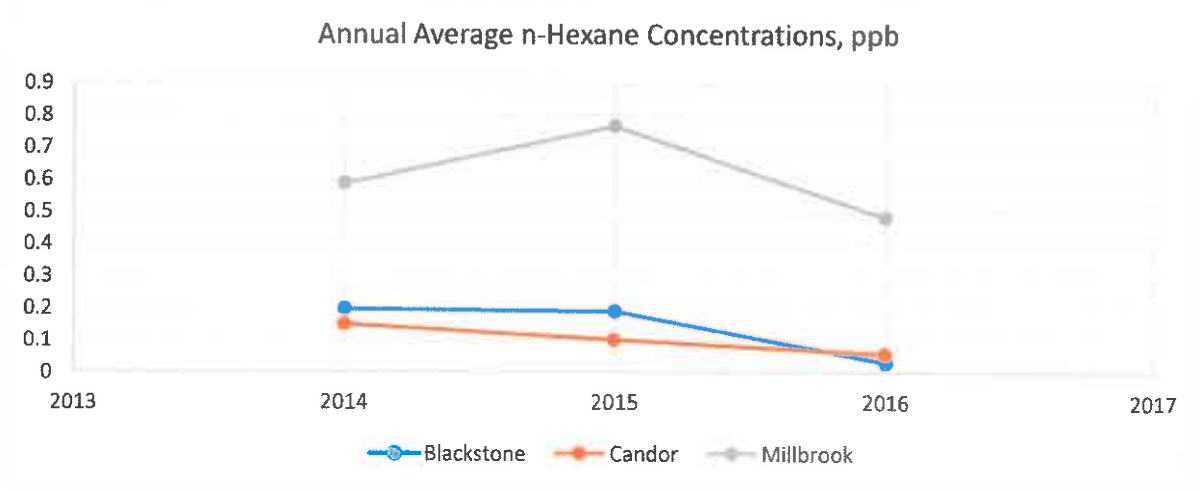


Figure 33. Box Plot of Benzene Concentrations at All Sites.

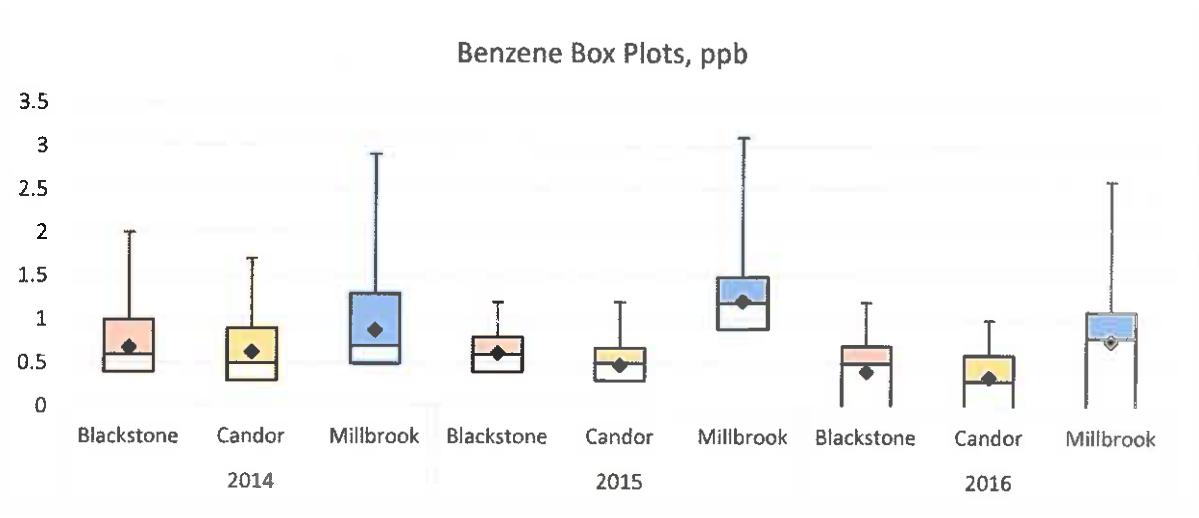


Figure 34. Box Plot of Toluene Concentrations at All Sites.

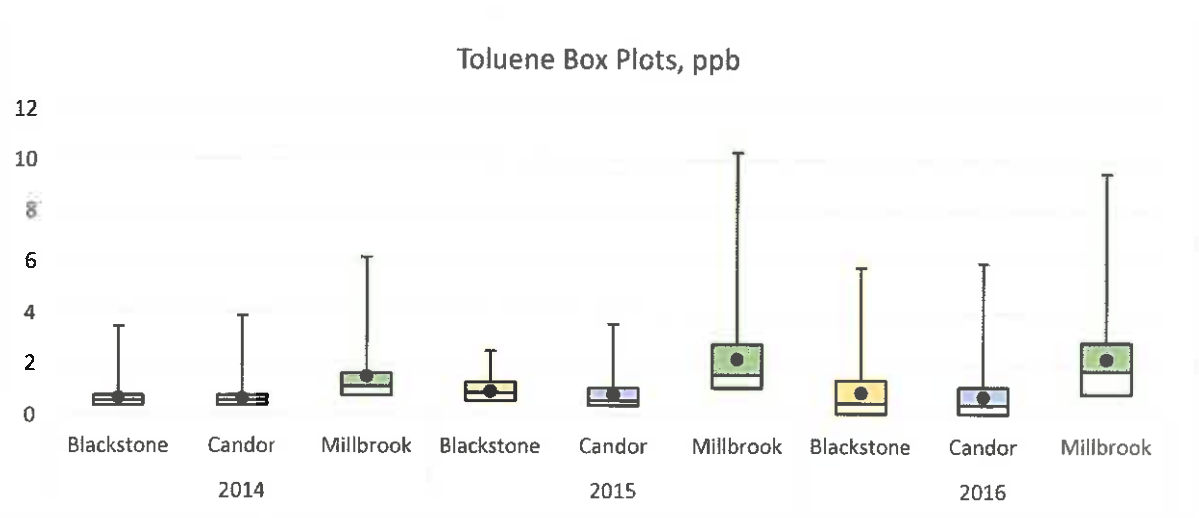


Figure 35. Box Plot of Ethylbenzene Concentrations at All Sites.

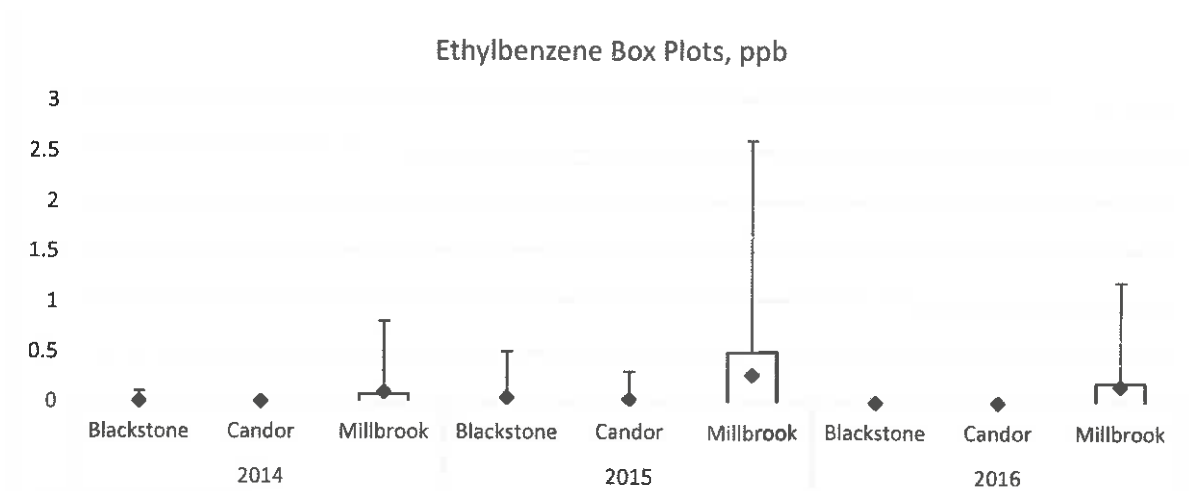


Figure 36. Box Plot of m/p-Xylene Concentrations at All Sites.

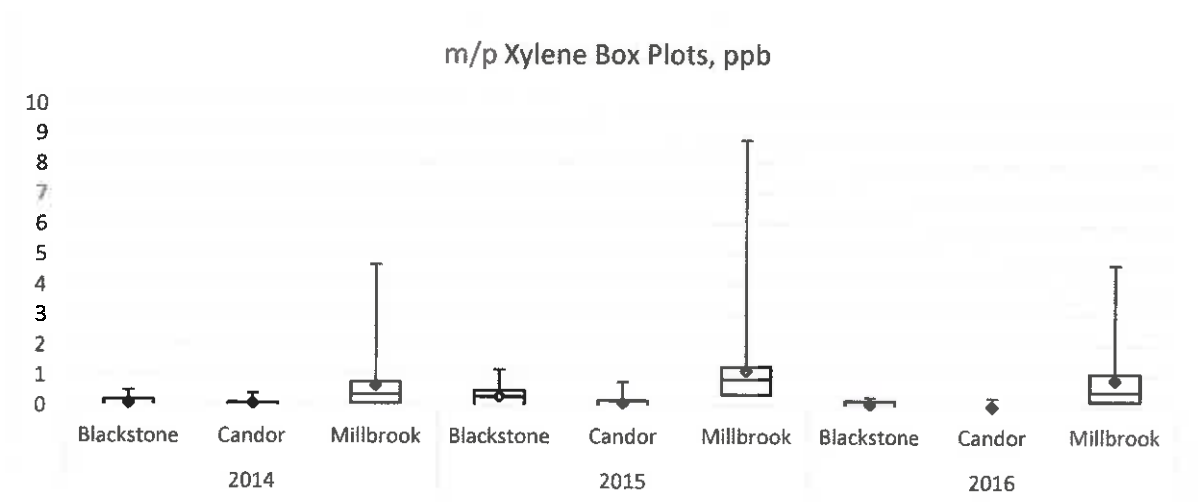


Figure 37. Box Plot of o-Xylene Concentrations at All Sites.

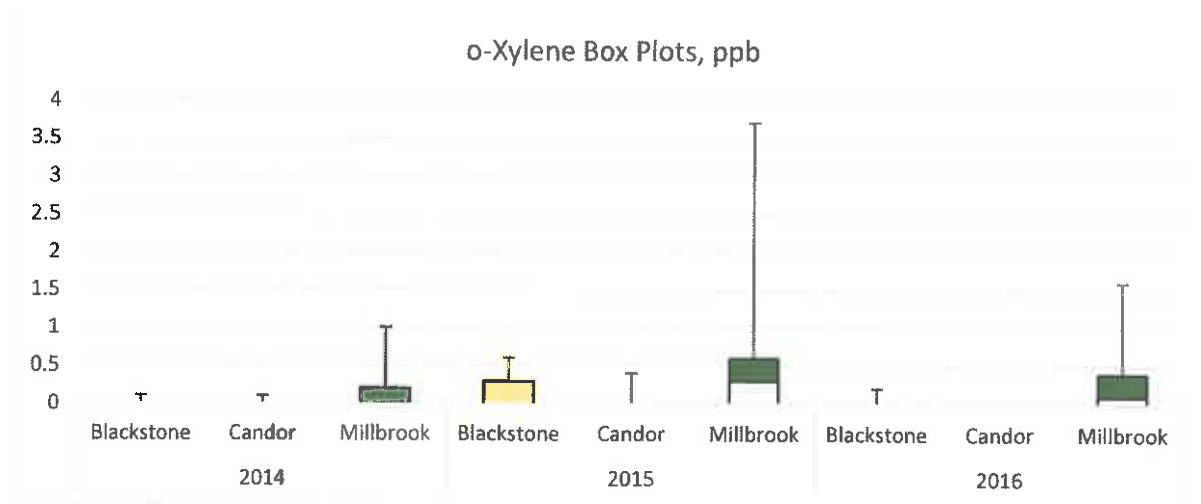
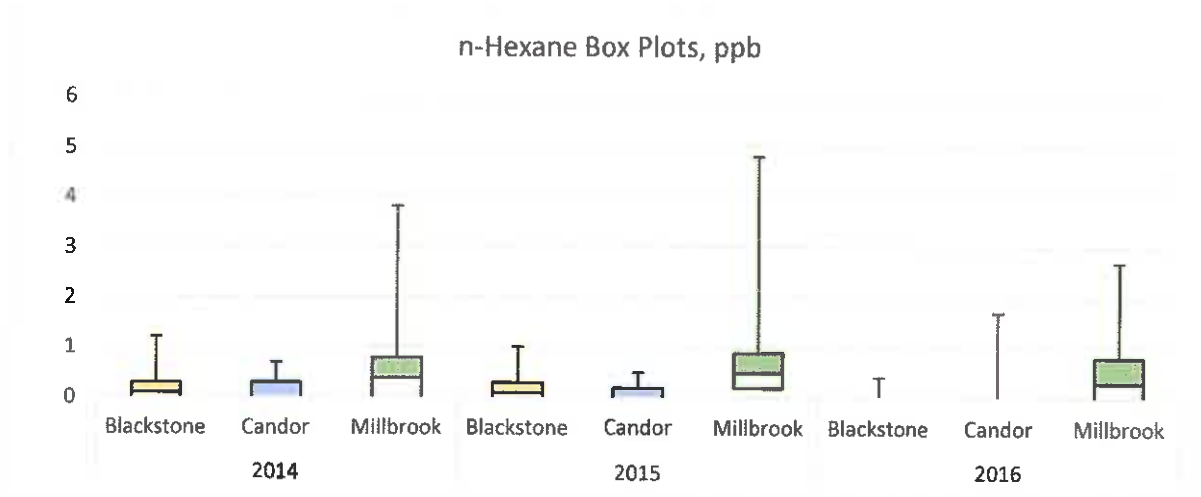


Figure 38. Box Plot of n-Hexane Concentrations at All Sites.



9.5 CONCLUSION

Based on collected VOC data and statistical analysis during the study period, one can infer that air sheds at Blackstone and Candor are similar. Focusing on annual average benzene and toluene concentrations during the study period one can conclude that Blackstone and Candor air sheds are similar. The annual average benzene concentration difference between Blackstone and Candor was approximately 0.07 ppb in 2016. Conversely, in 2016 the annual average benzene concentration difference between Blackstone and Millbrook was approximately 0.35 ppb or 5 times higher. The DAQ expected these results because concentrations of VOCs are heavily dependent on the size of the urban area near the site. Millbrook is in the largest urban area, Blackstone is in a much smaller urban area and Candor is a rural site. The VOC trends between annual average concentrations and concentration statistics show a similar trend with the aldehyde annual average concentrations and concentrations statistics during the study period.

10.0 CONCLUSIONS

The DAQ has completed the hydraulic fracturing baseline air quality monitoring project at the Blackstone site in the Deep River geological basin located south-southwest of the city of Sanford, North Carolina. This study focused on collecting several air quality measurements, namely ozone, PM, NO_x, SO₂, aldehydes, speciated VOCs, and meteorological data. DAQ currently operates long-term air monitoring sites that are upwind and downwind from the Blackstone site. To provide a general comparison of the air shed in Lee County, an assessment was made between the air quality measurements obtained at the Blackstone site to air quality measurements collected at a rural upwind site in Candor, North Carolina, and an urban downwind site in Raleigh, North Carolina.

Prevailing winds out of the southwest and west-southwest direction characterize the Lee County air shed. The ozone data exhibited very similar maximum daily 8-hour averages for both Candor and Blackstone, with the downwind urban site being slightly higher as expected. The PM data showed a slow rise in levels of PM as one traveled from the southern tip of the basin towards the downwind site. Nitrogen dioxide levels in Lee County were lower than those measured at the downwind urban site in Raleigh, as expected. The SO₂ values at the urban downwind site in Raleigh showed the highest concentrations of the two sites, yet both sites appeared to exhibit a downward trend over time. Based on collected VOC data and statistical analysis during the study period (2014 through 2016), the air sheds at Blackstone and Candor measured the same types of VOC at similar concentration levels. Ambient monitoring data was also collected during the 2017 calendar year at each of the three sites; however, this data was not quality assured and certified early enough to be evaluated in this report. However, preliminary analysis of the 2017 data does not reveal any unexpected or anomalous results.

11.0 LIST OF ACRONYMS

CBSA – Core-based statistical area

CFR – Code of Federal Regulations

DAQ – North Carolina Division of Air Quality

DNPH – Dinitrophenylhydrazone

DV – design values

EPA – United States Environmental Protection Agency

LAB – North Carolina DAQ Laboratory Analysis Branch

m – meta

$\mu\text{g}/\text{m}^3$ – micrograms per cubic meter

μm – micrometer

m/s – meters per second

MSA – Metropolitan statistical areas

n – normal or straight-chained

NAAQS – National ambient air quality standards

NIST – National Institute of Standards and Technology

NO_x – Oxides of nitrogen

o – ortho or adjacent

OMB – Office of Management and Budget

p – para or opposite

PM – Particulate matter

PM_{10} – PM with an aerodynamic diameter less than or equal to 10 μm

$\text{PM}_{2.5}$ – PM with aerodynamic diameter less than or equal to 2.5 μm

ppb – parts per billion

ppm – parts per million

SO_2 – Sulfur dioxide

SO_x – Sulfur oxides

VOC – Volatile organic compounds



OR CARO A *Environmental Quality*

NC DEQ

Special Studies

Shale Gas Development

The Division of Air Quality has produced the following information to begin assessing potential air quality impacts that could result from various shale gas development and production activities.

- Project Plan for Baseline Ambient Air Monitoring near Potential Shale Gas Development Zones in Lee County, NC
(https://files.nc.gov/ncdeq/Air_Quality/monitor/specialstudies/DAQ_Project_Plan.pdf), updated November 8, 2013
 - List of pollutants that will be monitored
(https://files.nc.gov/ncdeq/Air_Quality/monitor/specialstudies/Shale_Gas_Development_Compound_List.pdf), updated November 8, 2013

The Division of Air Quality has concluded its baseline air quality assessment of the Deep River Basin air shed as detailed in this report:

- Baseline Air Quality Assessment Deep River Basin
(https://files.nc.gov/ncdeq/Air+Quality/monitor/specialstudies/blackstone_report/Baseline_Air_Quality_Assessment_Deep_River_Basin_Final_Report.pdf)
dated July 12, 2018

Exceptional Event Documentation Packages

Documentation is available justifying the exclusion of fine particle data affected by exceptional events in:

- 2005, 2006, and 2007 (</about/divisions/air-quality/air-quality-data/special-studies/data-proposed-for-exclusion-from-naaqs-compliance-determinations-2005-2007>)
- 2008 (</about/divisions/air-quality/air-quality-data/special-studies/data-proposed-for-exclusion-from-naaqs-compliance-determinations-2008>)
- 2013 (</about/divisions/air-quality/air-quality-data/special-studies/data-proposed-for-exclusion-from-naaqs-compliance-determinations-2013>)

Atmospheric Nitrogen Studies

- Cure, Bill, et al. (1999). Status Report on Emissions and Deposition of Atmospheric Nitrogen Compounds from Animal Production in North Carolina. (https://files.nc.gov/ncdeq/Air_Quality/monitor/specialstudies/nstatusreport.pdf)
- Shendrikar, Arun (2006). Recommendation on the Continuation of Ammonia Monitoring in North Carolina. (https://files.nc.gov/ncdeq/Air_Quality/monitor/specialstudies/ammonia_monitoring_recommendation.pdf)
- Shendrikar, Arun, et al. (2006). Atmospheric Ammonia Monitoring Around Hog Farm Industries in North Carolina
(https://files.nc.gov/ncdeq/Air_Quality/monitor/specialstudies/NH3_monitoring_around_hog_farms.pdf)

Air Quality Monitoring

[Monitoring Data by Site \(/about/divisions/air-quality/air-quality-data/current-monitoring-data-by-site\)](/about/divisions/air-quality/air-quality-data/current-monitoring-data-by-site) 8-20-2018

Page 401 of 430

[Monitoring Data by Pollutant \(/about/divisions/air-quality/air-quality-monitoring/current-monitoring-data-pollutant\)](/about/divisions/air-quality/air-quality-monitoring/current-monitoring-data-pollutant)

[Pollen Monitoring \(/about/divisions/air-quality/air-quality-data/nata-epa-national-air-toxics-assessment-for-north-carolina/pollen-monitoring\)](/about/divisions/air-quality/air-quality-data/nata-epa-national-air-toxics-assessment-for-north-carolina/pollen-monitoring)

[Annual Network Plan \(/about/divisions/air-quality/air-quality-data/annual-network-plan\)](/about/divisions/air-quality/air-quality-data/annual-network-plan)

[Quality Assurance Documents \(/about/divisions/air-quality/air-quality-data/ambient-monitoring-quality-assurance-documents\)](/about/divisions/air-quality/air-quality-data/ambient-monitoring-quality-assurance-documents)

[Special Studies \(/about/divisions/air-quality/air-quality-data/special-studies\)](/about/divisions/air-quality/air-quality-data/special-studies)

[Data Proposed For Exclusion From NAAQS Compliance Determinations \(/about/divisions/air-quality/air-quality-data/special-studies/data-proposed-for-exclusion-from-naaqs-compliance-determinations-2005-2007\)](/about/divisions/air-quality/air-quality-data/special-studies/data-proposed-for-exclusion-from-naaqs-compliance-determinations-2005-2007)

[Data Proposed For Exclusion From NAAQS Compliance Determinations \(/about/divisions/air-quality/air-quality-data/special-studies/data-proposed-for-exclusion-from-naaqs-compliance-determinations-2008\)](/about/divisions/air-quality/air-quality-data/special-studies/data-proposed-for-exclusion-from-naaqs-compliance-determinations-2008)

[Data Proposed For Exclusion From NAAQS Compliance Determinations \(/about/divisions/air-quality/air-quality-data/special-studies/data-proposed-for-exclusion-from-naaqs-compliance-determinations-2013\)](/about/divisions/air-quality/air-quality-data/special-studies/data-proposed-for-exclusion-from-naaqs-compliance-determinations-2013)

[Historical Data Summaries \(/about/divisions/air-quality/air-quality-data/nata-epa-national-air-toxics-assessment-for-north-carolina/data-archives-statistical-summaries\)](/about/divisions/air-quality/air-quality-data/nata-epa-national-air-toxics-assessment-for-north-carolina/data-archives-statistical-summaries)

[Air Quality Reports \(/about/divisions/air-quality/air-quality-data/nata-epa-national-air-toxics-assessment-for-north-carolina/reports\)](/about/divisions/air-quality/air-quality-data/nata-epa-national-air-toxics-assessment-for-north-carolina/reports)

[Hazardous Air Pollutants \(/about/divisions/air-quality/air-quality-data/nata-epa-national-air-toxics-assessment-for-north-carolina/hazardous-air-pollutants\)](/about/divisions/air-quality/air-quality-data/nata-epa-national-air-toxics-assessment-for-north-carolina/hazardous-air-pollutants)

[North Carolina Haze Cams \(/about/divisions/air-quality/air-quality-data/north-carolina-haze-cams\)](/about/divisions/air-quality/air-quality-data/north-carolina-haze-cams)

Share this page:



Facebook

(<https://www.facebook.com/sharer/sharer.php?u=https%3A%2F%2Fdeq.nc.gov%2Fabout%2Fdivisions%2Fair-quality%2Fair-quality-data%2Fspecial-studies>)



Twitter

(<http://twitter.com/intent/tweet?url=https%3A%2F%2Fdeq.nc.gov%2Fabout%2Fdivisions%2Fair-quality%2Fair-quality-data%2Fspecial-studies>)

Mary C. Yow, PPS
Tax Administrator
 718-4661 ext. 5420

Mary Barbour
Listing Manager
 718-4661 ext. 5421



Lisa Faulkner
Appraisal Manager
 718-4660 ext. 5413

Denette Fitzpatrick
Collection Manager
 718-4662 ext. 5423

Memo

To: John Crumpton, County Manager
 From: Mary C. Yow. Tax Administrator
 Date: August 3, 2018
 Re: Monthly Forced Collection Efforts report for July 2018

July 2018	
Accounts researched	1665
Wage garnishments, Escheats and bank attachments issued	122
Accounts Updated with Collection info	308
July total collections (all)	\$ 2,395,358.27
July collections for county only (G01)	\$ 1,627,952.44
Payment Agreements Implemented	3
Debt Setoff Funds Received	\$1,289.05
Letters Mailed Requesting Employee Info	38

Sanford/Lee County Zoning & Design Review Dept.

115 Chatham Street, Sanford, NC 27330 Phone 919-718-4656

SANFORD / LEE COUNTY / BROADWAY TECHNICAL REVIEW COMMITTEE (TRC) MEMO

TO: SANFORD / LEE COUNTY / BROADWAY (TRC) MEMBERS

Sanford/Lee Co. Community Development Dept.: Marshall Downey, Director
Sanford/Lee Co. Community Development Dept.: David Montgomery, Long Range-Transportation Planner
Sanford/Lee Co. Zoning & Design Review Dept.: Amy J. McNeill, Zoning Administrator
Sanford/Lee Co. Zoning & Design Review Dept.: Alexandria Voignier, Planner II
Sanford/Lee County Building Inspections Dept.: Chris Riggins, Inspections Administrator
Sanford Public Works Dept. / Engineering Division: Michael Lamping, Civil Engineer 1
Sanford Fire Dept.: Wayne Barber, Chief & Ken Cotton, Deputy Chief / Fire Marshal
Sanford Police Dept.: Jamie Thomas, Major of Field Operations
Lee County Office of Emergency Services: Shane Seagroves, Director & Bill Rogers, Fire Marshal
Lee County Strategic Services Dept.: Don Kavaschitz, Administrator
Lee County Schools: Reid Cagle, Transportation Director & Dr. Jim Atkinson, Asst. Supt. for Aux Serv.
NCDOT: Travis Morgan, District 2 Engineer
CC: TRC "CC" Members, Project Managers/Designers

FROM: SANFORD/LEE COUNTY ZONING & DESIGN REVIEW DEPT.

DATE: 07-26-2018

RE: TRC meeting on **Thursday July 26, 2018 at 9:00 am** in the Buggy Conference Room of the historic Buggy Company Building at 115 Chatham Street to review the following project(s):

TRC-19-18

9:00 AM – Sam's Xpress Car Wash and Gas Station–Concept Review

LOCATION: TBD (previously 2700) Horner Blvd. Sanford, NC

LEE CO. PIN NO.: 9652-70-7981-00

ZONING: LI Light Industrial

ACRES: 3.89 +/- (Proposing to subdivide)

DESCRIPTION: Proposing to subdivide the lot into two parcels. Developing a car wash and gas station with all required site improvements.

UTILITIES: Proposed to be served by existing public water & public sewer.

STREET(s): Exiting Public Street (NCDOT maintained).

JURISDICTION: Sanford, inside corporate City limits.

APPLICANT: Matt Lowder | 919.553.6570 | mlowder@trianglesitedesign.com

PROJECT MANAGER: Chris Morgan | cmorgan@samsxpress.com

PLANNER: Alexandria Voignier, 919-718-4656, ext. 5399 or
alexandria.voignier@sanfordnc.net

TRC-20-18

9:30 AM – Commercial Building and Car Wash–Commercial Review

LOCATION: TBD Horner Blvd. Sanford, NC

IF YOU ARE UNABLE TO ATTEND THE MEETING, PLEASE FORWARD REVIEW COMMENTS &/OR QUESTIONS TO THE PROJECT PLANNER. Thank you.

LEE CO. PIN NO.: 9651-98-9550-00, 9661-08-1414-00, 9661-08-1481-00, and 9661-08-2356-00

ZONING: C2 Commercial and LI Light Industrial

ACRES: 5.0 +/- (Proposing to subdivide and recombine)

DESCRIPTION: Proposing to construct a retail center with 4 unites and a 1 bay car wash with associated parking and site improvements.

UTILITIES: Proposed to be served by existing public water & public sewer.

STREET(s): Exiting Public Street (NCDOT maintained).

JURISDICTION: Sanford, inside corporate City limits.

APPLICANT: John Paul Pereira | 423.551.4209 | jppereira@hutton.com

PROJECT MANAGER: Jake Simko | 423.790.5880 | Jake@berryengineers.com

PLANNER: Alexandria Voignier, 919-718-4656, ext. 5399 or alexandria.voignier@sanfordnc.net

TRC-21-18

10:00 AM – West Landing Subdivision Windmere Ext.–Major Subdivision Review

LOCATION: Lots are located approx. 1200 ft. south of intersection Winterlocked and Windmere Drive.

LEE CO. PIN NO.: 9632-51-9611-00

ZONING: R-20 Residential Single-Family

ACRES: 3.04 +/-

DESCRIPTION: This proposal is an extension in West Landing Subdivision along Windmere Drive and is proposed to have 5 new lots.

UTILITIES: Proposed to be served by public water & public sewer.

STREET(s): Proposed Public Street (City maintained).

JURISDICTION: Sanford, inside corporate City limits.

APPLICANT: Paul Adcock | adcockco@live.com

PROJECT MANAGER: Ken Bright | 919.776.3444 | kwbright@kenbrightengineering.com

PLANNER: Amy McNeill | 919.718.4656 ext. 5397 | amy.mcneill@sanfordnc.net

TRC-22-18

10:30 am - Winding Brook Apartments - Concept Review

LOCATION: 0 Woodland Ave. Sanford, NC

LEE CO. PIN NO.: 9652-32-2400-00, 9652-32-2185-00, 9652-32-5208-00, 9652-32-4087-00, and 9652-31-3940-00

ZONING: Request from CZ Conditional Zoning (2010/2015) to MF-12 Multi-Family

ACRES: 8.63 +/-

DESCRIPTION: This proposal is for 4 residential buildings and a clubhouse comprised of 60 units, with one and two bedrooms. Per the site plan, two of the buildings are three story the other two are one story buildings including site improvements.

UTILITIES & ACCESS: Proposed to be served by public water & public sewer.

STREET(s): Proposed Private Drive.

JURISDICTION: City of Sanford, inside the corporate City limits

APPLICANT: Patrick Theismann | 336.398.2702 | pthesimann@beacon-nc.com
OWNER: Ray Covington | 336.312.3320 | covington2@me.com
PROJECT MANAGER: Ken Bright | 919.356.4687 | kwbright@kenbrightengineering.com
PLANNER: Amy McNeill | 919.718.4656 ext. 5397 | amy.mcneill@sanfordnc.net

Permits Monthly Report

From 7/1/2018 To 7/31/2018

Commercial Building Permit

Accessory Building

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
COMM-7-18-31631	325 CHARLOTTE AVE SANFORD, NC 27330-	288	12960	7/02/2018	SBC CONTRACTING INC.	(919)426-7650	SHARON HOOKER	City of Sanford	HRF

Addition

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
COMM-7-18-31716	4300 OAK PARK RD SANFORD, NC 27330-	13132	1313200	7/18/2018	RGD PROJECT MANAGEMENT	(919)674-2013	PFIZER	Lee County	HRF

New

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
COMM-6-18-31620	283 HARVEY FAULK RD SANFORD, NC 27330-	19040	1904000	7/02/2018	AMERICAN SOUTH GENERAL CONTRACTORS, INC	(919)774-4000	SCHOOLHOUSE SANFOR	Lee County	HRF

Renovation

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
COMM-6-18-31400	351 TIFFANY DR SANFORD, NC 27330-	0	0	7/05/2018	SKYWARD TELECOM, LLC	(919)556-5562	DONALD SIMPSON	City of Sanford	HRF
COMM-7-18-31781	1815 NASH ST SANFORD, NC 27330-	0	0	7/19/2018	NEW ATLANTIC CONTRACTING	(336)759-7440	CENTRAL CAROLINA CO	City of Sanford	HRF
COMM-7-18-31847	802 HORNER BLVD S SANFORD, NC	0	0	7/27/2018	MUNDO LATINO	(919)770-2932	BYRON RAMIREZ	City of Sanford	HRF

Repair

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
COMM-6-18-31621	2215 NASH ST SANFORD, NC 27330-	0	0	7/03/2018	TURN KEY RESTORATION	(919)552-2148	ROY HARRINGTON	City of Sanford	HRF

Number of Commercial Building Permit: 7

Valuation Total: \$3,230,160.00

Permits Monthly Report
 From 7/1/2018 To 7/31/2018

Demolition Permit

Commercial

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
DEMO-7-18-31715	701 ROD SULLIVAN RD SANFORD,NC 27330-	0	0	7/11/2018	SANFORD CONTRACTORS	(919)775-7882	ROBERT HEUTS	Lee County	HRF

Residential

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
DEMO-7-18-31825	186 TRIPLE FARM LN SANFORD,NC 27330-	0	0	7/24/2018	NANCY LEMUS	(919)353-1113	NANCY LEMUS	Lee County	HRF

Number of Demolition Permit: 2

Valuation Total: \$0.00

Permits Monthly Report
From 7/1/2018 To 7/31/2018

Electrical Permit

Accessory Building

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31640	5808 MOCKINGBIRD LN SANFORD,NC 27330-	0	0	7/02/2018	M & T ELECTRICAL CONTRACTORS INC.	(919)770-3548	MAX DERRICK SERCY, M	Lee County	
ELEC-7-18-31658	282 SHERIFF WATSON RD SANFORD,NC 27332-	0	0	7/05/2018	TROY HETTINGER	(910)797-5818	TROY HETTINGER	Lee County	
ELEC-7-18-31677	1623 TEMPTING CHURCH SANFORD,NC 27330-	0	0	7/06/2018	ROBERT HOUSE	(919)770-9379	ROBERT E HOUSE JR.	Lee County	
ELEC-7-18-31686	270 BEVERLY HILLS LN SANFORD,NC 27330-	0	0	7/09/2018	G.E.B. ELECTRICAL	(919)499-6013	RANDY TODD	Lee County	
ELEC-7-18-31833	314 BORDER LEE FARM R SANFORD,NC 27330-	0	0	7/24/2018	DAVID DOUGLAS SKILLMAN	(408)599-2160	DAVID DOUGLAS SKILLM	Lee County	

Change Out

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31651	3224 NC 87 HWY S SANFORD,NC 27330-	0	0	7/03/2018	R & R REFRIGERATION HEATING & AC	(910)568-5135	CHICK-FIL-A INC	City of Sanford	
ELEC-7-18-31673	411 JUDD ST SANFORD,NC 27330-	0	0	7/06/2018	G. W. MAY ELECTRIC COMPANY INC.	(919)471-1703	LIVON M HEATH	City of Sanford	
ELEC-7-18-31676	338 CARTHAGE ST SANFORD,NC 27330-	0	0	7/06/2018	SMART POWER SOURCE INC.	(704)564-3258	RBC CENTURA BANK	City of Sanford	
ELEC-7-18-31685	527 GLENWOOD DR SANFORD,NC 27331-	0	0	7/09/2018	RON WATSON ELECTRICAL SERVICE	(919)229-1120	SANFORD REAL ESTATE	City of Sanford	

Commercial

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31680	283 HARVEY FAULK RD SANFORD,NC 27330-	0	0	7/09/2018	MOONLITE ELECTRIC & CONSTRUCTION, INC.	(919)468-8347	SCHOOLHOUSE SANFOR	Lee County	
ELEC-7-18-31700	298 HARVEY FAULK RD SANFORD,NC 27330-	0	0	7/10/2018	STONER ELECT. CO., M.R.	919-774-8877	CHARLES R. PRICE	City of Sanford	

ELEC-7-18-31756	7009 OLD JEFFERSON DA' SANFORD,NC 27330-	0	0	7/17/2018	INFINITY COMMUNICATIONS NC, LLC	(919)797-2334	ADKINS PROPERTIES LL	Lee County
ELEC-7-18-31757	298 COPPER MINE DR SANFORD,NC	0	0	7/17/2018	INFINITY COMMUNICATIONS NC, LLC	(919)797-2334	GLOBAL SIGNAL ACQUIS	Lee County
ELEC-7-18-31758	3930 COLON RD SANFORD,NC	0	0	7/17/2018	INFINITY COMMUNICATIONS NC, LLC	(919)797-2334	ALICE J (LIFE ESTATE) H	Lee County
ELEC-7-18-31759	2105 BRANTLEY RD SANFORD,NC 27330-	0	0	7/17/2018	INFINITY COMMUNICATIONS NC, LLC	(919)797-2334	RUBY & ERNEST MCSWA	Lee County
ELEC-7-18-31760	1810 DOUGLAS DR SANFORD,NC	0	0	7/17/2018	INFINITY COMMUNICATIONS NC, LLC	(919)797-2334	Crown Castle	City of Sanford
ELEC-7-18-31794	201 CHATHAM ST SANFORD,NC 27330-	0	0	7/20/2018	CHISOLM ELECTRICAL CONTRACTORS, INC	(910) 673-5646	APRIL MONTGOMERY	City of Sanford
ELEC-7-18-31795	900 VANCE ST S SANFORD,NC 27330-	0	0	7/20/2018	MOONLITE ELECTRIC & CONSTRUCTION, INC.	(919)468-8347	COUNTY OF LEE	City of Sanford
ELEC-7-18-31800	1815 NASH ST SANFORD,NC 27330-	0	0	7/23/2018	P.R. FAULK ELECTRICAL CORP.	(919)775-1990	CENTRAL CAROLINA CO	City of Sanford

MH Double-Wide

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31704	4429 ST ANDREWS CHURC SANFORD,NC 27330-	0	0	7/10/2018	SWAIM ELECTRIC	(336)685-9722	PAUL GARNER	Lee County	

MH Single-Wide

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31647	56 BAYBERRY LN SANFORD,NC	0	0	7/03/2018	RED TOP ELECTRIC	(919)774-8663	PINE VILLAGE MHC LLC	City of Sanford	
ELEC-7-18-31648	52 BAYBERRY LN SANFORD,NC	0	0	7/03/2018	RED TOP ELECTRIC	(919)774-8663	PINE VILLAGE MHC LLC	City of Sanford	
ELEC-7-18-31764	3025 BYRD AVE SANFORD,NC 27330-	0	0	7/18/2018	MICHAEL ROSS ELECTRIC	(910)315-3850	LUX LETT	Lee County	
ELEC-7-18-31778	1855 LOWER MONCURE R SANFORD,NC 27330-	0	0	7/18/2018	OMAR DOMINGUES DE LA CRUZ	(919)775-5718	OMAR DOMINGUES DE L	Lee County	
ELEC-7-18-31871	133 CORALBERRY CIR SANFORD,NC 27330-	0	0	7/30/2018	G.E.B. ELECTRIC	919-499-6013	PINE VILLAGE MHC LLC	City of Sanford	
ELEC-7-18-31877	131 CORALBERRY CIR SANFORD,NC	0	0	7/30/2018	G.E.B. ELECTRIC	919-499-6013	PINE VILLAGE MHC LLC	City of Sanford	

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31878	132 CORALBERRY CIR SANFORD, NC	0	0	7/30/2018	G.E.B. ELECTRIC	919-499-6013	PINE VILLAGE MHC LLC	City of Sanford	
ELEC-7-18-31879	134 CORALBERRY CIR SANFORD, NC	0	0	7/30/2018	G.E.B. ELECTRIC	(919)499-6013	PINE VILLAGE MHC LLC	City of Sanford	
ELEC-7-18-31880	135 CORALBERRY CIR SANFORD, NC 27330-	0	0	7/30/2018	G.E.B. ELECTRIC	919-499-6013	PINE VILLAGE MHC LLC	City of Sanford	
Miscellaneous									
ELEC-7-18-31630	619 SPRING LN SANFORD, NC 27330-	0	0	7/02/2018	J.S. HOWARD ELECTRICAL	(919)774-1650	MONTY R & SANDRA L FR	City of Sanford	
ELEC-7-18-31638	720 BUCKHORN RD SANFORD, NC 27330-	0	0	7/02/2018	M & T ELECTRICAL CONTRACTORS INC.	(919)770-3548	CHRIS DOMINIC	Lee County	
ELEC-7-18-31678	1721 OWLS NEST RD SANFORD, NC 27330-	0	0	7/09/2018	DANNY COX	(919)770-9423	KENNETH M MILLER	City of Sanford	
ELEC-7-18-31721	291 LANIER FARM RD SANFORD, NC 27330-	0	0	7/12/2018	KENNETH W II BROADWELL	(336)504-8685	KENNETH W II BROADW	Lee County	
ELEC-7-18-31723	520 WEATHERSPOON ST 1 SANFORD, NC 27330-	0	0	7/13/2018	HARMON'S ELECTRIC AND HOME IMPROVEMENT	(919)498-4321	VIVIAN DOUGLAS	City of Sanford	
ELEC-7-18-31728	3715 WICKER ST SANFORD, NC 27330-	0	0	7/13/2018	WICKER ELECTRIC	(919)770-0472	JAMES D & JENNIFER E Y	Lee County	
ELEC-7-18-31743	1600 COLON RD SANFORD, NC 27330-	0	0	7/16/2018	MICHAEL BOYETTE	(919)499-3856	CARTER KELLER	Lee County	
ELEC-7-18-31748	903 STEEL BRIDGE RD Sanford, NC 27330-	0	0	7/16/2018	J.M. POPE ELECTRIC	(919)498-4070	LAMCO CUSTOM BUILDE	Lee County	
ELEC-7-18-31801	1815 NASH ST SANFORD, NC 27330-	0	0	7/23/2018	P.R. FAULK ELECTRICAL CORP.	(919)775-1990	CENTRAL CAROLINA CO	City of Sanford	
ELEC-7-18-31813	2010 SUTPHIN DR SANFORD, NC 27330-	0	0	7/24/2018	HARMON'S ELECTRIC AND HOME IMPROVEMENT	(919)498-4321	CALVIN WINDHAM	City of Sanford	
ELEC-7-18-31824	4732 ST ANDREWS CHURC SANFORD, NC 27332-	0	0	7/30/2018	DONALD & KATHY MATTHEWS	(919)499-4217	DONALD & KATHY MATTH	Lee County	
ELEC-7-18-31864	4300 OAK PARK RD SANFORD, NC 27330-	0	0	7/27/2018	EAST COAST CONSTRUCTION SERVICES LLC	(336)431-1533	PRAXIS BIOLOGICS INC	Lee County	
ELEC-7-18-31872	815 FRANKLIN DR S SANFORD, NC 27330-	0	0	7/30/2018	BITTING ELECTRIC INC	(919)467-9417	DAVID H & VIVIAN BYRD	Lee County	

Modular Home

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31862	262 EDWARDS RD SANFORD, NC 27330-	0	0	7/27/2018	CAROLINA AIR, HEATING & COOLING	(919)585-2425	CASEY W LAWSON	Lee County	

Power Restoration

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31652	614 MATTHEWS ST SANFORD, NC 27330-	0	0	7/03/2018	G.E.B. ELECTRICAL	(919)499-6013	PAUL DOUGLAS	City of Sanford	
ELEC-7-18-31710	812 GOLDEN HILLS LN SANFORD, NC 27332-	0	0	7/10/2018	JOHNSON'S INNOVATIVE ELECTRICAL CONTRAC	(919)770-1084	RONALD A DEAL	Lee County	
ELEC-7-18-31735	231 OAK BRANCH LN SANFORD, NC 27330-	0	0	7/13/2018	J.S. HOWARD ELECTRICAL	(919)774-1650	POSTOAK SANFORD LLC	City of Sanford	
ELEC-7-18-31738	235 OAK BRANCH LN SANFORD, NC 27330-	0	0	7/13/2018	J.S. HOWARD ELECTRICAL	(919)774-1650	POSTOAK SANFORD LLC	City of Sanford	
ELEC-7-18-31739	227 OAK BRANCH LN SANFORD, NC 27330-	0	0	7/13/2018	J.S. HOWARD ELECTRICAL	(919)774-1650	POSTOAK SANFORD LLC	City of Sanford	
ELEC-7-18-31766	233 OAK BRANCH LN SANFORD, NC 27330-	0	0	7/18/2018	J.S. HOWARD ELECTRICAL	(919)774-1650	POSTOAK SANFORD LLC	City of Sanford	
ELEC-7-18-31767	225 OAK BRANCH LN SANFORD, NC 27330-	0	0	7/18/2018	J.S. HOWARD ELECTRICAL	(919)774-1650	POSTOAK SANFORD LLC	City of Sanford	
ELEC-7-18-31850	2416 JEFFERSON DAVIS H SANFORD, NC 27330-	0	0	7/25/2018	SANFORD ELECTRICAL CONTRACTORS	(919)356-9628	CORLEY, BEVERLY DON	Lee County	

Residential Addition

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31763	363 WILLOW CREEK RD SANFORD, NC 27330-	0	0	7/18/2018	DOUGLAS ELECTRIC	(919)708-8936	H WAYNE & LINDA M LAM	Lee County	
ELEC-7-18-31873	625 SUNSET DR SANFORD, NC 27330-	0	0	7/30/2018	JESSE MCPHERSON	(919)770-7521	JESSE C JR MCPHERSON	City of Sanford	

Residential New

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31639	3031 CARRINGTON LN SANFORD, NC 27330-	0	0	7/02/2018	M & T ELECTRICAL CONTRACTORS INC.	(919)770-3548	JERRY BATCHELOR	City of Sanford	

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31709	292 PEELE LN SANFORD, NC 27330-	0		7/10/2018	ABSOLUTE POWER COMPANY INC.	(919)995-4136	KEVIN PECKENPAUGH	Lee County	
ELEC-7-18-31745	206 GREENWICH DR SANFORD, NC 27330-	0		7/16/2018	J.M. POPE ELECTRIC	(919)498-4070	BOBBY BRANCH	Lee County	
ELEC-7-18-31746	2142 LOWER MONCURE R SANFORD, NC 27330-	0		7/16/2018	J.M. POPE ELECTRIC	(919)498-4070	JEFFREY BUCHANAN	Lee County	
ELEC-7-18-31821	2720 BRISTOL WAY SANFORD, NC 27330-	0		7/24/2018	BILLINGS ELECTRIC CO. INC	(919) 258-3115	EDDIE PHILLIPS	City of Sanford	
ELEC-7-18-31822	3403 COTTEN RD SANFORD, NC 27330-	0		7/24/2018	BILLINGS ELECTRIC CO. INC	(919) 258-3115	DOUGLAS DEGON	Lee County	
ELEC-7-18-31826	402 CLOVERMIST CT SANFORD, NC 27330-	0		7/24/2018	TOOL TIME ELECTIC COMPANY, INC.	(919)481-9100	ALBERT ADCOCK	City of Sanford	

Residential Renovation

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31684	2301 BROOKWOOD TR SANFORD, NC 27330-	0		7/09/2018	T & G ELECTRIC OF SANFORD NC	(919)434-4480	MARK DAVENPORT	City of Sanford	
ELEC-7-18-31680	105 FOOTHILL CT SANFORD, NC 27330-	0		7/09/2018	TOOL TIME ELECTIC COMPANY, INC.	(919)481-9100	JAMES PREWITT	City of Sanford	
ELEC-7-18-31696	710 ERWIN RD SANFORD, NC 27330-	0		7/10/2018	A.L. MCKENZIE ELECTRICAL CO	(919)353-2134	JONATHAN WESTER	City of Sanford	
ELEC-7-18-31796	8612 PERSIMMON PATH SANFORD, NC 27332-	0		7/23/2018	A.L. MCKENZIE ELECTRICAL CO	(919)353-2134	MIKE WOMBLE	Lee County	
ELEC-7-18-31827	1017 BAILES DR SANFORD, NC 27330-	0		7/24/2018	ON TIME ELECTRIC LP	(919)891-8299	LARRY GOODWIN	City of Sanford	
ELEC-7-18-31828	1106 HAWKINS AVE SANFORD, NC 27330-	0		7/24/2018	ON TIME ELECTRIC LP	(919)891-8299	STEPHEN SCULLY	City of Sanford	
ELEC-7-18-31867	214 BROOKFIELD CIR SANFORD, NC 27330-	0		7/27/2018	SOUTHERN ELECTRIC & AUTOMATION CORP.	(919) 498-4122	CYNTHIA PIJERS	City of Sanford	

Residential Repair

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31645	2909 CHESHIRE DR SANFORD, NC 27332-	0		7/03/2018	STONER ELECT. CO., M.I.R.	919-774-8877	ROBERTO BLANCO	Lee County	
ELEC-7-18-31683	3346 DEEP RIVER RD SANFORD, NC 27330-	0		7/09/2018	STONER ELECT. CO., M.I.R.	919-774-8877	ANDREW CHRISCOE	Lee County	

ELEC-7-18-31866 2903 WICKER ST 0 7/27/2018 0 7/27/2018 STONER ELECT. CO., M.R. 919-774-8877 ROXANNE PENNY City of Sanford

Service Change

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31644	2006 CARBANTON RD SANFORD, NC 27330-	0	0	7/03/2018	STONER ELECT. CO., M.R.	919-774-8877	REGINALD N JACKSON	City of Sanford	
ELEC-7-18-31653	616 DENADA PATH SANFORD, NC 27330-	0	0	7/03/2018	DYLAN PREVETTE	(919)279-0693	DYLAN PREVETTE	City of Sanford	
ELEC-7-18-31698	510 HUGHES ST SANFORD, NC 27330-	0	0	7/10/2018	FLOR RIOS VENEGAS		FLOR RIOS VENEGAS	City of Sanford	
ELEC-7-18-31793	2119 CARTHAGE ST SANFORD, NC 27330-	0	0	7/20/2018	TRADE MARK ELECTRIC		CHARLES N FIELDS	Lee County	
ELEC-7-18-31802	6 OAKCREST DR SANFORD, NC 27330-	0	0	7/23/2018	DEAN ELECTRIC	(919)770-2097	OTTER CREEK PROPERT	City of Sanford	
ELEC-7-18-31848	808 FRANKLIN DR N SANFORD, NC 27330-	0	0	7/25/2018	A.L. MCKENZIE ELECTRICAL CO	(919)353-2134	EASTERLING CLEONE CO	City of Sanford	
ELEC-7-18-31851	2408 JEFFERSON DAVIS H SANFORD, NC 27330-	0	0	7/25/2018	SANFORD ELECTRICAL CONTRACTORS	(919)356-9628	BEVERLY CORLEY	Lee County	
ELEC-7-18-31852	2400 JEFFERSON DAVIS H SANFORD, NC 27330-	0	0	7/25/2018	SANFORD ELECTRICAL CONTRACTORS	(919)356-9628	CORLEY, BEVERLY DON	Lee County	
ELEC-7-18-31856	3009 BYRD AVE SANFORD, NC 27330-	0	0	7/26/2018	M & T ELECTRICAL CONTRACTORS INC.	(919)770-3548	BRENDA J BORDWELL,	Lee County	

Swimming Pool

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31747	903 STEEL BRIDGE RD Sanford, NC	0	0	7/16/2018	J.M. POPE ELECTRIC	(919)498-4070	LAMCO CUSTOM BUILDE	Lee County	

Temporary Service Pole

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
ELEC-7-18-31740	3110 PARKWOOD DR SANFORD, NC 27330-	0	0	7/13/2018	T & G ELECTRIC OF SANFORD NC	(919)434-4480	MICHAEL SUBLETT	City of Sanford	
ELEC-7-18-31789	225 OAK BRANCH LN SANFORD, NC 27330-	0	0	7/19/2018	J.S. HOWARD ELECTRICAL	(919)774-1650	POSTOAK SANFORD LLC	City of Sanford	
ELEC-7-18-31870	2224 JEFFERSON DAVIS H SANFORD, NC 27330-	0	0	7/30/2018	WICKER ELECTRIC	(919)770-0472	TRAMWAY STATION LLC	City of Sanford	

Permits Monthly Report
From 7/1/2018 To 7/31/2018

Malt Beverage Application

<NONE>

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
MALT-7-18-31755	3868 AVENTS FERRY RD SANFORD,NC 27330-	0	0	7/17/2018	DANIEL DOBY	(919)499-8908	CECIL CAMERON	Lee County	

Number of Malt Beverage Application: 1

Valuation Total: \$0.00

Permits Monthly Report
From 7/1/2018 To 7/31/2018

Manufactured Home Setup Permit

MH Double-Wide

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
MANU-7-18-31667	1148 GUNTER LAKE RD SANFORD, NC 27332-	0	0	7/06/2018	RODNEY BROWN	(919)356-4773	STEPHANIE JORDAN	Lee County	

MH Single-Wide

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
MANU-7-18-31705	131 CORALBERRY CIR SANFORD, NC	0	0	7/11/2018	RAVEN ROCK M.H. MOVERS	919-775-3600	PINE VILLAGE MHC LLC	City of Sanford	
MANU-7-18-31707	132 CORALBERRY CIR SANFORD, NC 27330-	0	0	7/11/2018	RAVEN ROCK M.H. MOVERS	919-775-3600	PINE VILLAGE MHC LLC	City of Sanford	
MANU-7-18-31725	552 CENTER CHURCH RD SANFORD, NC 27330-	0	0	7/18/2018	CLAYTON HOMES	(336)460-0329	CATHY GILES	Lee County	
MANU-7-18-31776	1855 LOWER MONCURE R SANFORD, NC 27330-	0	0	7/18/2018	OMAR DOMINGUES DE LA CRUZ	(919)775-5718	OMAR DOMINGUES DE L	Lee County	
MANU-7-18-31804	134 CORALBERRY CIR SANFORD, NC	0	0	7/23/2018	RAVEN ROCK M.H. MOVERS	919-775-3600	PINE VILLAGE MHC LLC	City of Sanford	
MANU-7-18-31805	133 CORALBERRY CIR SANFORD, NC 27330-	0	0	7/23/2018	RAVEN ROCK M.H. MOVERS	919-775-3600	PINE VILLAGE MHC LLC	City of Sanford	
MANU-7-18-31808	135 CORALBERRY CIR SANFORD, NC 27330-	0	0	7/23/2018	RAVEN ROCK M.H. MOVERS	919-775-3600	PINE VILLAGE MHC LLC	City of Sanford	
MANU-7-18-31830	122 PINESAGE VISTA LN CAMERON, NC 28326-	0	0	7/24/2018	MILLER MOBILE HOME	(910)308-1254	SALVADOR HERNANDEZ	Lee County	
MANU-7-18-31831	126 PINESAGE VISTA LN CAMERON, NC 28326-	0	0	7/24/2018	MILLER MOBILE HOME	(910)308-1254	SALVADOR HERNANDEZ	Lee County	

Number of Manufactured Home Setup Permit: 10

Valuation Total: \$0.00

Permits Monthly Report
From 7/1/2018 To 7/31/2018

Mechanical Permit

Commercial

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
MECH-7-18-31633	3321 NC 87 HWY S SANFORD, NC 27330-	0	0	7/02/2018	PIEDMONT SERVICE GROUP, INC.	(919)851-5800	NFU DEVELOPMENT LLC	City of Sanford	
MECH-7-18-31642	2720 WILKINS DR SANFORD, NC 27330-	0	0	7/03/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	WASTE MANAGEMENT O	City of Sanford	
MECH-7-18-31650	3224 NC 87 HWY S SANFORD, NC 27330-	0	0	7/03/2018	PEYCOR, INC.	(910)214-4822	CHICK-FIL -A INC	City of Sanford	
MECH-7-18-31670	410 GUNTER ST SANFORD, NC 27330-	0	0	7/06/2018	CAROLINA AIR, HEATING & COOLING	(910)585-2425	NOBLE OIL SERVICES IN	City of Sanford	
MECH-7-18-31675	338 CARTHAGE ST SANFORD, NC 27330-	0	0	7/06/2018	MECHANICAL CONTRACTORS, INC.	(704)892-4934	RBC CENTURA BANK	City of Sanford	
MECH-7-18-31679	2825 HORNER BLVD S SANFORD, NC 27330-	0	0	7/09/2018	JOYNER & DICKENS H & A/C, INC.	919-774-6841	FPB INVESTMENTS OF N	City of Sanford	
MECH-7-18-31682	211 WICKER ST SANFORD, NC 27330-	0	0	7/09/2018	JOYNER & DICKENS H & A/C, INC.	919-774-6841	JANICE DOSSENBACH	City of Sanford	
MECH-7-18-31688	900 VANCE ST S SANFORD, NC 27330-	0	0	7/11/2018	BAKER MECHANICAL, INC.	(252)291-4460	LEE COUNTY BOARD OF	City of Sanford	
MECH-7-18-31697	226 CARTHAGE ST SANFORD, NC 27330-	0	0	7/10/2018	RD'S FIRE CONTROL	(910)389-0139	Renee Fincher	City of Sanford	
MECH-7-18-31717	1450 HORNER BLVD N SANFORD, NC 27330-	0	0	7/11/2018	SURETEMP MECHANICAL	919-770-4120	COUNTY OF LEE	City of Sanford	
MECH-7-18-31754	118 MOORE ST S SANFORD, NC 27330-	0	0	7/17/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	BANE + YOUNGBLOOD C	City of Sanford	
MECH-7-18-31788	201 CHATHAM ST SANFORD, NC 27330-	0	0	7/19/2018	FOUR SEASONS HEATING AND A/C	(910)235-0606	APRIL MONTGOMERY	City of Sanford	
MECH-7-18-31845	2220 WOODLAND AVE SANFORD, NC 27330-	0	0	7/25/2018	PSNC		CITY OF SANFORD	City of Sanford	

Res Ductwork Additions

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
MECH-7-18-31675	625 SUNSET DR SANFORD, NC 27330-	0	0	7/30/2018	JESSE MCPHERSON	(919)770-7521	JESSE C JR MCPHERSON	City of Sanford	

Residential

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
MECH-7-18-31629	1906 OWLS NEST RD SANFORD, NC 27330-	0	0	7/02/2018	CENTER HEATING & AIR	919-775-2500	DALE MATTHEW STANSE	City of Sanford	
MECH-7-18-31632	739 ARTHUR MADDOX RD SANFORD, NC 27330-	0	0	7/02/2018	ALLEN KELLY & COMPANY INC.	(919)779-4197	SCIOTO BLUE RIVER PRO	Lee County	
MECH-7-18-31634	202 SUMMITT DR SANFORD, NC 27330-	0	0	7/02/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	FIRST BAPTIST CHURCH	City of Sanford	
MECH-7-18-31641	2100 WASHINGTON ST SANFORD, NC 27332-	0	0	7/05/2018	COMFORT FIRST HEATING & COOLING , INC.	(919)777-1777	ALLAN K HARKLEROAD	Lee County	
MECH-7-18-31643	210 STREAMSIDE DR SANFORD, NC 27330-	0	0	7/03/2018	AMERICAN RESIDENTIAL SERVICES L.L.C. (DBA),	(919)865-7777	PAUL ADCOCK	City of Sanford	
MECH-7-18-31646	7914 VILLANOW DR SANFORD, NC 27332-	0	0	7/03/2018	AIR RICH HTG. AND COOLING INC.		ROBERT DAVIS WOOTEN	Lee County	
MECH-7-18-31649	605 GLENWOOD DR SANFORD, NC 27330-	0	0	7/03/2018	JAMES A CALBALLERO	(919)774-5422	JAMES A CALBALLERO	City of Sanford	
MECH-7-18-31656	527 GLENWOOD DR SANFORD, NC 27330-	0	0	7/03/2018	PSNC		SANFORD REAL ESTATE	City of Sanford	
MECH-7-18-31660	775 LOWER MONCURE RC SANFORD, NC 27330-	0	0	7/05/2018	72 DEGREES HEATING & AIR	(336)656-9900	MARK PERKINS	Lee County	
MECH-7-18-31665	2722 WATERS EDGE SANFORD, NC 27330-	0	0	7/05/2018	COMFORT FIRST HEATING & COOLING , INC.	(919)777-1777	JEFFERY S BREWER	City of Sanford	
MECH-7-18-31666	504 GLENWOOD DR SANFORD, NC 27330-	0	0	7/05/2018	PSNC		THOMAS SHANE SEAGR	City of Sanford	
MECH-7-18-31671	3306 WESTCOTT CIR SANFORD, NC 27330-	0	0	7/06/2018	CAROLINA AIR, HEATING & COOLING	(910)585-2425	GLENNA GRIDER	City of Sanford	
MECH-7-18-31672	2142 LOWER MONCURE R SANFORD, NC 27330-	0	0	7/06/2018	CAROLINA AIR, HEATING & COOLING	(910)585-2425	JEFFREY BUCHANAN	Lee County	
MECH-7-18-31681	5159 OSPREY PT SANFORD, NC 27330-	0	0	7/09/2018	JOYNER & DICKENS H & A/C, INC.	919-774-6841	JOHN B & SUSAN C HOO	Lee County	

MECH-7-18-31691	292 PEELE LN SANFORD,NC 27330-	0	7/31/2018	CAROLINA COMFORT AIR INC.	(919)834-1060	KEVIN PECKENPAUGH	Lee County
MECH-7-18-31693	5095 QUAIL HOLLOW RD SANFORD,NC 27330-	0	7/10/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	MAUDE H MALONEY	Lee County
MECH-7-18-31694	3403 COTTEN RD SANFORD,NC 27330-	0	7/10/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	DOUGLAS DEGON	Lee County
MECH-7-18-31695	1600 PHILLIPS DR SANFORD,NC 27330-	0	7/10/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	DENISE T BEATTIE	City of Sanford
MECH-7-18-31702	326 WILDLIFE RD SANFORD,NC 27332-	0	7/10/2018	CAROLINA AIR, HEATING & COOLING	(910)585-2425	DENNIS J GUSTAFSON	Lee County
MECH-7-18-31703	4429 ST ANDREWS CHURCH RD SANFORD,NC 27330-	0	7/10/2018	SWAIM ELECTRIC	(336)685-9722	PAUL GARNER	Lee County
MECH-7-18-31712	8708 HOLLY POND RD SANFORD,NC 27330-	0	7/11/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	DANIEL F BIEDIGER	Lee County
MECH-7-18-31713	368 FRANK WICKER RD SANFORD,NC 27330-	0	7/11/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	IVEY FOSTER MCNEILL	Lee County
MECH-7-18-31726	229 KRISTIN LN SANFORD,NC 27330-	0	7/12/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	LAURA W RIDDLER	Lee County
MECH-7-18-31729	569 BRUCE COGGINS RD SANFORD,NC 27330-	0	7/13/2018	COMFORT FIRST HEATING & COOLING , INC.	(919)777-1777	NORBERT E JOHNSTON	Lee County
MECH-7-18-31730	2142 LOWER MONCURE R SANFORD,NC 27330-	0	7/16/2018	FARMER LP GAS & OIL CO., INC.	(910)893-3598	JEFFREY BUCHANAN	Lee County
MECH-7-18-31734	3007 CARRINGTON LN SANFORD,NC 27330-	0	7/16/2018	SOUTHEAST FIREPLACE, INC.	(919)269-8644	BRITTEN WICKER	City of Sanford
MECH-7-18-31737	2512 COUNTY LINE RD CAMERON,NC 28326-	0	7/13/2018	COMFORT FIRST HEATING & COOLING , INC.	(919)777-1777	WILLIAM H CROWELL	Lee County
MECH-7-18-31741	2726 SUNNYBROOK DR SANFORD,NC 27330-	0	7/13/2018	JEFFERY L CROWDER		JEFFERY L CROWDER	City of Sanford
MECH-7-18-31752	1929 WEDGEWOOD DR SANFORD,NC 27332-	0	7/17/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	KARL C HEIDINGER	Lee County
MECH-7-18-31753	5144 CARDINAL CIR SANFORD,NC 27332-	0	7/17/2018	JOYNER & DICKENS	(919)774-6841	MELISSA SHUTTLEWORT	Lee County
MECH-7-18-31761	2720 BRISTOL WAY SANFORD,NC 27330-	0	7/17/2018	B & T HVAC SERVICES, INC.	(919)362-7601	EDDIE PHILLIPS	City of Sanford
MECH-7-18-31768	3031 CARRINGTON LN SANFORD,NC 27330-	0	7/18/2018	RICKY YARBOROUGH	(919)770-4078	JERRY BATCHELOR	City of Sanford

MECH-7-18-31771	5067 BLUEBIRD DR SANFORD, NC 27330-	0	0	7/18/2018	TOTAL SYSTEMS HEATING & COOLING, INC.	(910)436-3450	AMY MAULDIN	Lee County
MECH-7-18-31779	1855 LOWER MONCURE R SANFORD, NC 27330-	0	0	7/18/2018	OMAR DOMINGUES DE LA CRUZ	(919)775-5718	OMAR DOMINGUES DE L	Lee County
MECH-7-18-31782	3031 CARRINGTON LN SANFORD, NC 27330-	0	0	7/19/2018	ADVANCE SERVICES INC	(910)483-8654	JERRY BATCHELOR	City of Sanford
MECH-7-18-31787	1717 THOMAS KELLY RD SANFORD, NC 27330-	0	0	7/19/2018	SCOTT DE DEUGD	(919)345-8687	SCOTT DE DEUGD	Lee County
MECH-7-18-31797	338 QUEEN RD SANFORD, NC 27330-	0	0	7/23/2018	JAMES CARRIKER	(910)215-6877	WILLAIM SAUNDERS	City of Sanford
MECH-7-18-31798	3014 PINE LAKE DR SANFORD, NC 27330-	0	0	7/23/2018	JOYNER & DICKENS H & A/C, INC.	919-774-6841	SETZER, PATRICIA LEE S	City of Sanford
MECH-7-18-31812	421 REYNWOOD VISTA SANFORD, NC 27330-	0	0	7/24/2018	BLOSSMAN GAS OF NORTH CAROLINA, INC.	(336)248-5381	SUNIL P & VIDYA PERSA	Lee County
MECH-7-18-31814	6031 MASTERS CIR SANFORD, NC 27330-	0	0	7/24/2018	COMFORT FIRST HEATING & COOLING, INC.	(919)777-1777	PATRICK M GARCIA	Lee County
MECH-7-18-31835	4148 BUCKHORN RD SANFORD, NC 27330-	0	0	7/25/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-6841	JOSEPH CAVALLUZZI	Lee County
MECH-7-18-31839	1922 CAPTAINS PT SANFORD, NC 27332-	0	0	7/25/2018	CAROLINA AIR, HEATING & COOLING	(910)585-2425	STREP RICHARD KUEHL	Lee County
MECH-7-18-31844	363 WILLOW CREEK RD SANFORD, NC 27330-	0	0	7/25/2018	COOPER CONTRACTORS	(919)353-0897	H WAYNE & LINDA M LAM	Lee County
MECH-7-18-31846	1106 HAWKINS AVE SANFORD, NC 27330-	0	0	7/25/2018	TIN SHOP	(919)499-1759	STEPHEN SCULLY	City of Sanford
MECH-7-18-31855	805 SANDSTONE CT SANFORD, NC 27330-	0	0	7/26/2018	CENTER HEATING & AIR	919-775-2500	NANCY WAZENEGGER	City of Sanford
MECH-7-18-31857	2818 KENDALE DR SANFORD, NC 27330-	0	0	7/27/2018	AIR RICH HTG. AND COOLING INC.		LINDA BADGETT WINSLE	Lee County
MECH-7-18-31859	4410 FARRELL RD SANFORD, NC 27330-	0	0	7/26/2018	HUNTER OIL AND PROPANE INC.	(919)775-5651	MICHAEL EVANS	Lee County
MECH-7-18-31860	323 QUARTERMASTER DR SANFORD, NC 27330-	0	0	7/27/2018	AMERICAN RESIDENTIAL SERVICES L.L.C. (DBA),	(919)865-7777	CHARITY ANN WELDON	City of Sanford
MECH-7-18-31861	3710 WOODSIDE DR SANFORD, NC 27330-	0	0	7/30/2018	72 DEGREES HEATING & AIR	(336)656-9900	JAMES E BANKS	Lee County
MECH-7-18-31863	262 EDWARDS RD SANFORD, NC 27330-	0	0	7/27/2018	CAROLINA AIR, HEATING & COOLING	(910)585-2425	CASEY W LAWSON	Lee County

MECH-7-18-31865	711 TIDEWATER DR SANFORD,NC 27330-	0	7/27/2018	SOUTHEAST FIREPLACE, INC.	(919)269-8644	ERICA ANTUNEZ	City of Sanford
MECH-7-18-31868	309 CRICKET HEARTH RD SANFORD,NC 27330-	0	7/27/2018	COMFORT FIRST HEATING & COOLING , INC.	(919)777-1777	NATHAN JOHNSON	Lee County
MECH-7-18-31869	755 TURNBURY CT SANFORD,NC 27332-	0	7/30/2018	COMFORT FIRST HEATING & COOLING , INC.	(919)777-1777	DAVID GLENN JR EMERS	Lee County
MECH-7-18-31884	411 GARDEN ST W SANFORD,NC 27330-	0	7/31/2018	CENTER HEATING & AIR	919-775-2500	PAMELA T JENKINS	City of Sanford
MECH-7-18-31887	2309 LAKELAND DR SANFORD,NC 27330-	0	7/31/2018	JOYNER AND DICKENS H AND AC ELECTRIC CO I	919-774-8841	GEORGE R JR PERKINS	City of Sanford
MECH-7-18-31888	166 WILLOW CREEK RD SANFORD,NC 27330-	0	7/31/2018	CENTER HEATING & AIR	919-775-2500	JOHNNY A CHANG	Lee County
MECH-7-18-31889	421 CEDAR RIDGE LN SANFORD,NC 27330-	0	7/31/2018	HEARTH TECHNOLOGIES INC.	(704)598-6090	NICK DALISKY	Lee County

Number of Mechanical Permit: 71

Valuation Total: \$0.00

Permits Monthly Report
From 7/1/2018 To 7/31/2018

Plumbing Permit

Commercial

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
PLUM-7-18-31689	900 VANCE ST S SANFORD, NC 27330-	0	0	7/09/2018	BAKER MECHANICAL, INC.	(252)281-4460	COUNTY OF LEE	City of Sanford	
PLUM-7-18-31720	810 HAWKINS AVE SANFORD, NC 27330-	0	0	7/12/2018	C & N ELECTRICAL & PLUMBING	(919) 775-3299	ALOWDI LLC	City of Sanford	
PLUM-7-18-31783	4300 OAK PARK RD SANFORD, NC 27330-	0	0	7/19/2018	SOUTHERN INDUSTRIAL CONSTRUCTORS, INC	(919)782-4600	PFIZER	Lee County	
PLUM-7-18-31799	1521 BOONE TRAIL RD SANFORD, NC 27330-	0	0	7/23/2018	PIPEWORX PLUMBING, INC.	(919)770-6452	B&C REAL INVESTMENTS	City of Sanford	
PLUM-7-18-31803	1600 COLON RD SANFORD, NC 27330-	0	0	7/23/2018	SIMPSON PLUMBING	(910)245-7949	CARTER KELLER	Lee County	
PLUM-7-18-31832	1815 NASH ST SANFORD, NC 27330-	0	0	7/24/2018	EARNHARDT PLUMBING, LLC	(919)803-4816	CENTRAL CAROLINA CO	City of Sanford	

MH Single-Wide

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
PLUM-7-18-31706	131 CORALBERRY CIR SANFORD, NC	0	0	7/11/2018	RAVEN ROCK M.H. MOVERS	919-775-3600	PINE VILLAGE MHC LLC	City of Sanford	
PLUM-7-18-31708	132 CORALBERRY CIR SANFORD, NC	0	0	7/11/2018	RAVEN ROCK M.H. MOVERS	919-775-3600	PINE VILLAGE MHC LLC	City of Sanford	
PLUM-7-18-31777	1855 LOWER MONCURE R SANFORD, NC 27330-	0	0	7/18/2018	OMAR DOMINGUES DE LA CRUZ	(919)775-5718	OMAR DOMINGUES DEL	Lee County	
PLUM-7-18-31806	133 CORALBERRY CIR SANFORD, NC 27330-	0	0	7/23/2018	RAVEN ROCK M.H. MOVERS	919-775-3600	PINE VILLAGE MHC LLC	City of Sanford	
PLUM-7-18-31807	134 CORALBERRY CIR SANFORD, NC	0	0	7/23/2018	RAVEN ROCK M.H. MOVERS	919-775-3600	PINE VILLAGE MHC LLC	City of Sanford	
PLUM-7-18-31809	135 CORALBERRY CIR SANFORD, NC 27330-	0	0	7/23/2018	RAVEN ROCK M.H. MOVERS	919-775-3600	PINE VILLAGE MHC LLC	City of Sanford	

Modular Home

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
PLUM-7-18-31636	298 HARVEY FAULK RD SANFORD, NC 27330-	0	0	7/02/2018	H.R. CURTIS PLUMBING	(919)770-0168	CHARLES R. PRICE	City of Sanford	
PLUM-7-18-31692	262 EDWARDS RD SANFORD, NC 27330-	0	0	7/10/2018	H.R. CURTIS PLUMBING	(919)770-0168	CASEY W LAWSON	Lee County	

Other

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
PLUM-7-18-31701	1105 WREN TREE CIR SANFORD, NC 27330-	0	0	7/10/2018	RELIABLE PLUMBING, INC.	919-775-5782	TRACY K HARDISON,	City of Sanford	
PLUM-7-18-31732	520 WEATHERSPOON ST 1 SANFORD, NC 27330-	0	0	7/13/2018	PSNC		VIVIAN DOUGLAS	City of Sanford	
PLUM-7-18-31769	2857 LEE AVE SANFORD, NC 27330-	0	0	7/18/2018	PHOENIX FIRE PROTECTION	(919)774-3042	S&S HOLDINGS OF SANF	City of Sanford	
PLUM-7-18-31770	2863 LEE AVE SANFORD, NC 27330-	0	0	7/18/2018	PHOENIX FIRE PROTECTION	(919)774-3042	S&S HOLDINGS OF SANF	City of Sanford	
PLUM-7-18-31792	1436 COURTLAND DR W SANFORD, NC 27330-	0	0	7/20/2018	HARE PLUMBING, INC	(919)770-5308	M&R ASSOCIATES OF SA	City of Sanford	

Residential Addition

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
PLUM-7-18-31837	3306 WESTCOTT CIR SANFORD, NC 27330-	0	0	7/25/2018	MCDONALD PLUMBING	(919)770-0773	GLENNA GRIDER	City of Sanford	
PLUM-7-18-31841	1805 CREPE MYRTLE DR SANFORD, NC	0	0	7/25/2018	COX BROTHERS PLUMBING	(919) 258-9559	THOMAS F & MARY B DO	City of Sanford	
PLUM-7-18-31874	625 SUNSET DR SANFORD, NC 27330-	0	0	7/30/2018	JESSE MCPHERSON	(919)770-7521	JESSE C JR MCPHERSON	City of Sanford	

Residential Alteration

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
PLUM-7-18-31637	2112 LOWER MONCURE R SANFORD, NC 27330-	0	0	7/02/2018	PIPEWORX PLUMBING, INC.	(919)770-6452	DUNCAN LUNDY	Lee County	
PLUM-7-18-31853	1705 CREPE MYRTLE DR SANFORD, NC 27330-	0	0	7/26/2018	RELIABLE PLUMBING, INC.	919-775-5782	BARBER, WARREN R OR	City of Sanford	

Residential New

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
PLUM-7-18-31635	3007 CARRINGTON LN SANFORD,NC 27330-	0	0	7/02/2018	GILBERT PLUMBING COMPANY	(910) 567-6361	BRITTEN WICKER	City of Sanford	
PLUM-7-18-31674	166 WILLOW CREEK RD SANFORD,NC 27330-	0	0	7/06/2018	HARE PLUMBING, INC	(919)770-5308	JOHNNY A CHANG	Lee County	
PLUM-7-18-31699	2142 LOWER MONCURE R SANFORD,NC 27330-	0	0	7/10/2018	GILBERT PLUMBING COMPANY	(910) 567-6361	JEFFREY BUCHANAN	Lee County	
PLUM-7-18-31731	805 SANDSTONE CT SANFORD,NC 27330-	0	0	7/13/2018	SIMPSON PLUMBING	(910)690-3831	NANCY WAZENEGGER	City of Sanford	
PLUM-7-18-31742	206 GREENWICH DR SANFORD,NC 27330-	0	0	7/16/2018	DOUBLE J PLUMBING LLC	(910)814-7705	BOBBY BRANCH	Lee County	
PLUM-7-18-31780	3031 CARRINGTON LN SANFORD,NC 27330-	0	0	7/19/2018	RELIABLE PLUMBING, INC.	919-775-5782	JERRY BATCHELOR	City of Sanford	
PLUM-7-18-31836	2720 BRISTOL WAY SANFORD,NC 27330-	0	0	7/25/2018	MICHAEL LESLIE PLUMBING	(919)499-8374	EDDIE PHILLIPS	City of Sanford	
PLUM-7-18-31842	2527 VICTORY DR SANFORD,NC 27330-	0	0	7/25/2018	COX BROTHERS PLUMBING	(919) 258-9559	PINNACLE INC	City of Sanford	
PLUM-7-18-31849	3403 COTTEN RD SANFORD,NC 27330-	0	0	7/25/2018	COX BROTHERS PLUMBING	(919) 258-9559	DOUGLAS DEGON	Lee County	

Residential Renovation

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
PLUM-7-18-31661	1106 HAWKINS AVE SANFORD,NC 27330-	0	0	7/05/2018	STATEN PLUMBING, INC	(919)483-6578	STEPHEN SCULLY	City of Sanford	
PLUM-7-18-31843	710 ERWIN RD SANFORD,NC 27330-	0	0	7/25/2018	COX BROTHERS PLUMBING	(919) 258-9559	JONATHAN WESTER	City of Sanford	

Residential Repair

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
PLUM-7-18-31718	3712 WICKER ST SANFORD,NC 27330-	0	0	7/11/2018	PIPEWORX PLUMBING, INC.	(919)770-6452	CHARLES F & WANDA BA	City of Sanford	
PLUM-7-18-31727	1011 STONEYBROOK DR SANFORD,NC 27330-	0	0	7/13/2018	KEVIN HAYWARD	(209)612-9427	KEVIN HAYWARD	City of Sanford	

Number of Plumbing Permit: 37

Valuation Total: \$0.00

Permits Monthly Report

From 7/1/2018 To 7/31/2018

Residential Building Permit

Accessory Building

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
RES-5-18-31113	6996 SHERIFF WATSON RD SANFORD, NC 27330-	900	36000	7/02/2018	HEIKE DRYBREAD	(919)352-2057	HEIKE DRYBREAD	Lee County	
RES-6-18-31545	715 PENDERGRASS RD SANFORD, NC 27330-	216	8640	7/12/2018	WILLIAM E. & LOU ELLEN MORGAN	(919)770-7364	WILLIAM E. & LOU ELLEN	City of Sanford	
RES-6-18-31563	270 BEVERLY HILLS LN SANFORD, NC 27330-	200	8000	7/03/2018	RANDY TODD	(919)774-4945	RANDY TODD	Lee County	
RES-6-18-31618	282 SHERIFF WATSON RD SANFORD, NC 27332-	1440	57600	7/05/2018	TROY HETTINGER	(910)797-5818	TROY HETTINGER	Lee County	
RES-7-18-31687	43 JP LN SANFORD, NC 27332-	0	0	7/12/2018	LISA MARIE KELLY JOHNSON	(919)478-2025	LISA MARIE KELLY, (JOH	Lee County	
RES-7-18-31714	1334 CARTHAGE ST SANFORD, NC 27330-	2400	96000	7/17/2018	SANFORD METAL BLD. LLC	(919)776-2623	MICHAEL H COLDREN	City of Sanford	

Addition

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
RES-6-18-31568	1158 DEERFOOT TR SANFORD, NC	240	6000	7/06/2018	JOHN REUTHER CONSTRUCTION	(919)971-5724	IAN WIGHTMAN	Lee County	
RES-6-18-31619	2421 WESTGATE DR SANFORD, NY 27330-	272	6800	7/02/2018	CHARLES WRIGHT	(919)400-3738	CHARLES WRIGHT	City of Sanford	
RES-7-18-31668	6804 BRADLEY RD Sanford, NC 27330-	362	9050	7/06/2018	WESLEY JOHNSON	(828)674-4866	Wesley Johnson	Lee County	
RES-7-18-31810	3370 CARBANTON RD SANFORD, NC 27330-	732	18300	7/27/2018	BRANDON HILL	(919)895-0480	BRANDON HILL	Lee County	
RES-7-18-31838	7308 VILLANOW DR SANFORD, NC 27330-	540	13500	7/25/2018	J.A. HART CONSTRUCTION/REMODELING	(919)935-2603	STEVEN WILSON	Lee County	

Modular Home

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
----------	----------	---------	-----------	--------	------------	-------	-------	----------	-----

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
RES-6-18-31507	618 FOREST OAKS DR E SANFORD, NC 27330-	1699	128605	7/10/2018	PREMIERE HOMES	(252)578-4212	CASSANDRA CALDWELL	Lee County	Yes
RES-7-18-31722	3246 DEEP RIVER RD SANFORD, NC 27330-	2080	164640	7/18/2018	FREEMAN MOBILE HOME MOVERS, INC	(336)685-4140	LOU ANN GRIFFIN	Lee County	Yes
<u>New</u>									
RES-5-18-31092	900 BREEZEWOOD RD SANFORD, NC 27330-	800	64000	7/05/2018	JAMES CRITELLI	(919)285-6426	JAMES CRITELLI	Lee County	Yes
RES-6-18-31494	423 CRICKET HEARTH RD SANFORD, NC 27330-	2345	166610	7/11/2018	KEITH MICHAEL BROWN		van harris realty inc	Lee County	Yes
RES-6-18-31534	3214 DEBRA LN SANFORD, NC 27330-	2179	151265	7/03/2018	LAMCO CUSTOM BUILDERS	(919)307-4254	LAMCO CUSTOM BUILDERS	Lee County	Yes
RES-6-18-31571	3218 DEBRA LN SANFORD, NC 27330-	2096	147320	7/03/2018	LAMCO CUSTOM BUILDERS	(919)307-4254	DANIEL W HESTER	Lee County	Yes
RES-7-18-31654	2520 CREEK TR SANFORD, NC 27330-	2184	154100	7/11/2018	GLENN GODFREY CONSTRUCTION	(919) 774-9446	PINNACLE INC	City of Sanford	Yes
RES-7-18-31657	206 GREENWICH DR SANFORD, NC 27330-	3682	239750	7/09/2018	WEAVER HOMES INC.	(910)433-0888	BOBBY BRANCH	Lee County	Yes
RES-7-18-31662	1314 BUCKHORN RD SANFORD, NC 27330-	3453	198520	7/12/2018	DETAILED RESIDENTIAL, LLC	(919)368-0063	DETAILED RESIDENTIAL	Lee County	Yes
RES-7-18-31663	2512 MEADOW VIEW LN SANFORD, NC 27330-	3697	241615	7/06/2018	ESTEBAN FLORES CASTANEDA	(919)356-7702	ESTEBAN FLORES CAST	City of Sanford	Yes
RES-7-18-31669	1123 SHERIFF WATSON RI SANFORD, NC 27330-	9617	679740	7/06/2018	FLOYD HAUSE	(443)784-2893	FLOYD HAUSE	Lee County	Yes
RES-7-18-31719	6815 BRADLEY RD SANFORD, NC 27330-	3650	236790	7/16/2018	CASEY & ERIC GOLDBERG	(919)721-5310	CASEY & ERIC GOLDBER	Lee County	Yes
RES-7-18-31751	402 CLOVERMIST CT SANFORD, NC 27330-	4758	276805	7/17/2018	WALKER DESIGN BUILD	(919)234-4284	ALBERT ADCKOCK	City of Sanford	Yes
RES-7-18-31772	600 TIDEWATER DR SANFORD, NC 27330-	2370	167050	7/24/2018	JAY J. NORRIS		JAY NORRIS	City of Sanford	Yes
RES-7-18-31773	104 TYVOLA ST SANFORD, NC 27330-	2792	191090	7/24/2018	MCCLOSKEY BUILDERS, INC	(910)813-3428	RONALD MCCLOSKEY	City of Sanford	Yes
RES-7-18-31775	100 TYVOLA ST SANFORD, NC 27330-	2430	175170	7/24/2018	MCCLOSKEY BUILDERS, INC	(910)813-3428	RONALD MCCLOSKEY	City of Sanford	Yes
RES-7-18-31785	109 TYVOLA ST SANFORD, NC 27330-	3707	265045	7/24/2018	MCCLOSKEY BUILDERS, INC	(910)813-3428	RONALD MCCLOSKEY	City of Sanford	Yes

RES-7-18-31786 105 TYVOLA ST 3038 222280 7/24/2018 MCCLOSKEY BUILDERS, INC (910)813-3428 RONALD MCCLOSKEY City of Sanford Yes

Other

Permit # Location **Sq. Ft.** **Valuation** **Issued** **Contractor** **Phone** **Owner** **District** **HRF**

RES-7-18-31840 149 CHARLOTTE AVE 0 0 7/26/2018 THE HOSE REPAIR AND PARTS CENTER COMPAN (919)774-6446 STELLA HOLDER City of Sanford HRF

Renovation

Permit # Location **Sq. Ft.** **Valuation** **Issued** **Contractor** **Phone** **Owner** **District** **HRF**

RES-6-18-31539 2301 BROOKWOOD TR 0 0 7/02/2018 MARK DAVENPORT (828)712-4222 MARK DAVENPORT City of Sanford HRF

RES-6-18-31602 105 FOOTHILL CT 0 0 7/05/2018 PREWITT CUSTOM HOMES, INC. (919)669-1969 JAMES PREWITT City of Sanford

RES-6-18-31617 612 FAIRWAY DR 0 0 7/05/2018 F.S., LLC (DBA) RAM JACK, LLC (919)309-9727 NICHOLAS M HOFFMAN City of Sanford

RES-7-18-31664 543 DYCUS RD 0 0 7/11/2018 ORKIN PEST CONTROL (919)828-3221 GREGORY KEITH PIERCE Lee County

RES-7-18-31733 511 GLENWOOD DR 0 0 7/17/2018 F.S., LLC (DBA) RAM JACK, LLC (919)309-9727 PHILLIP LEE & SANDRA K City of Sanford

RES-7-18-31774 1017 BAILES DR 0 0 7/19/2018 WITS REMODELING (919)708-2316 LARRY GOODWIN City of Sanford

Repair

Permit # Location **Sq. Ft.** **Valuation** **Issued** **Contractor** **Phone** **Owner** **District** **HRF**

RES-7-18-31823 4732 ST ANDREWS CHURCH 0 0 7/30/2018 DONALD & KATHY MATTHEWS (919)499-4217 DONALD & KATHY MATTH Lee County

Number of Residential Building Permit: 37

Valuation Total: \$4,130,285.00

Permits Monthly Report
 From 7/1/2018 To 7/31/2018

Sign Permit

New

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
SIGN-7-18-31659	1956 HORNER BLVD S SANFORD, NC 27330-	0	0	7/09/2018	ALLEN INDUSTRIES	(336)799-4670	EVANSTON II SANFORD	City of Sanford	
SIGN-7-18-31854	1600 COLON RD SANFORD, NC 27330-	0	0	7/27/2018	CAROLINA COMMERCIAL CONTRACTORS, LLC	(919)776-4641	CARTER KELLER	Lee County	

Number of Sign Permit: 2

Valuation Total: \$0.00

Permits Monthly Report

From 7/1/2018 To 7/31/2018

Sprinkler Permit

Fire Alarm

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
SPRK-7-18-31724	2101 NASH ST SANFORD, NC 27330-	0	0	7/12/2018	JOHNSON CONTROLS	(919)337-9262	MAGNETI MARELLI USA I	Sanford Fire/SPRK	

Miscellaneous

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
SPRK-7-18-31791	226 CARTHAGE ST SANFORD, NC 27330-	0	0	7/20/2018	RD'S FIRE CONTROL	(910)389-0139	Renee Fincher	Sanford Fire/SPRK	
SPRK-7-18-31815	3309 WICKER ST SANFORD, NC 27330-	0	0	7/24/2018	UNITED FIRE & SAFETY	(919)848-4336	LEE COUNTY BOARD OF	Sanford Fire/SPRK	
SPRK-7-18-31816	1337 BROADWAY RD SANFORD, NC 27330-	0	0	7/24/2018	UNITED FIRE & SAFETY	(919)848-4336	LEE COUNTY BOARD OF	Sanford Fire/SPRK	
SPRK-7-18-31817	607 MCINTOSH ST W SANFORD, NC 27330-	0	0	7/24/2018	UNITED FIRE & SAFETY	(919)848-4336	LEE COUNTY	Sanford Fire/SPRK	
SPRK-7-18-31818	3301 WICKER ST SANFORD, NC 27331-	0	0	7/24/2018	UNITED FIRE & SAFETY	(919)848-4336	LEE COUNTY BOARD OF	Sanford Fire/SPRK	
SPRK-7-18-31819	1708 NASH ST SANFORD, NC 27330-	0	0	7/24/2018	UNITED FIRE & SAFETY	(919)848-4336	LEE COUNTY BOARD OF	Sanford Fire/SPRK	
SPRK-7-18-31820	3115 CEMETERY RD SANFORD, NC 27332-	0	0	7/24/2018	UNITED FIRE & SAFETY	(919)848-4336	COUNTY OF LEE	Sanford Fire/SPRK	
SPRK-7-18-31829	1400 BROADWAY RD SANFORD, NC 27330-	0	0	7/24/2018	CAROLINA FIRE PROTECTION, INC	(910) 892-1700	COTY US LLC	Sanford Fire/SPRK	

New

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
SPRK-7-18-31784	1400 BROADWAY RD SANFORD, NC 27330-	0	0	7/18/2018	CAROLINA FIRE PROTECTION, INC	(910) 892-1700	COTY US LLC	Sanford Fire/SPRK	

Tent

Permit #	Location	Sq. Ft.	Valuation	Issued	Contractor	Phone	Owner	District	HRF
SPRK-7-18-31711	505 SEVENTH ST N SANFORD, NC 27330-	0	0	7/10/2018	SAINT STEPHEN CATHOLIC CHURCH	(919)770-8123	SANFORD LIONS CLUB	Sanford Fire/SPRK	

Number of Sprinkler Permit: 11

Valuation Total: \$0.00

<p>Grand Totals:</p> <p>96,339 sq ft \$7,360,445.00 Total Permits Issued: 261</p>
--