Post & Courier

CHARLESTON COUNTY COUNCIL COMPREHENSIVE PLAN, ZONING AND LAND DEVELOPMENT REGULATIONS ORDINANCE (ZLDR), AND ZONING MAP AMENDMENT PUBLIC HEARING Tuesday, July 14, 2020 at 6:30 PM

Charleston County Council will hold a public hearing on the matters listed below beginning at 6:30 p.m., Tuesday, July 14, 2020, in Council Chambers (second floor of the Lonnie Hamilton, III, Public Services Building, located at: 4045 Bridge View Drive, North Charleston, SC 29405). The complete agenda can be found online at: https://www.charlestoncounty.org/departments/zoning-planning/. The meeting will be livestreamed at: https://www.charlestoncounty.org/departments/zoning-planning/. Written public comments may be emailed to CCPC@charlestoncounty.org or mailed to the address listed above by noon on Tuesday, July 14. Contact the Zoning and Planning Department at (843)202-7200 or CCPC@charlestoncounty.org for additional information.

- a. <u>ZREZ-02-20-00114</u>: Request to rezone TMS 711-00-00-052, located at 7820 N. Highway 17 (East County area), from the Agricultural Preservation 10 (AG-10) Zoning District to the Planned Development, PD-176, High School/Middle School in Awendaw, Zoning District.
- b. <u>ZREZ-02-20-00115</u>: Request to rezone TMS 390-00-072, located at 9576 Koester Road (Ladson area) from the Single Family Residential 4 (R-4) Zoning District to the Community Commercial (CC) Zoning District.
- c. <u>ACP-02-20-00117 & ZLDR-02-20-00121:</u> Request to amend the zoning and future land use designation in the Parkers Ferry Overlay Zoning District in the Comprehensive Plan and the ZLDR, from the Residential Area to the Commercial Area for TMS 121-00-00-051, located at 7662 Savannah Hwy (Adams Run area).
- d. <u>ACP-05-20-00119 & ZLDR-05-20-00122:</u> Request to amend the zoning and future land use designation in the Parkers Ferry Overlay Zoning District in the Comprehensive Plan and the ZLDR, from the Residential Area to the Commercial Area for TMS 121-00-00-047 located at Savannah Hwy (Adams Run area).

This Public Notice is in accordance with Section 6-29-760 of the Code of Laws of South Carolina.

Kristen L. Salisbury Clerk of Council

ZONING MAP AMENDMENT REQUEST:

ZREZ-02-20-00114

- Case History
- Presentation
- PD Documents
- Application
- Community Meeting Presentation
- Public Input

High School/ Middle School in Awendaw PD-176: ZREZ-02-20-00114 Case History

Planning Commission: June 22, 2020
Public Hearing: July 14, 2020
Planning and Public Works Committee: August 6, 2020
First Reading: August 11, 2020
Second Reading: September 8, 2020
Third Reading: September 22, 2020

CASE INFORMATION

Applicant: Mary Martinich, Seamon Whiteside

Owner: Quarry Lake Plantation LLC

Location: 7820 N Highway 17

Parcel Identification: 711-00-00-052

<u>Application:</u> Request to rezone TMS 711-00-00-052, located at 7820 N. Highway 17 (East County area), from the Agricultural Preservation 10 (AG-10) Zoning District to the Planned Development, PD-176, High School/Middle School in Awendaw, Zoning District.

Council District: 2 (Schweers)

Property Size: 107.2 acres

Zoning History: The subject property was zoned Agricultural Preservation District (AG-10) on the 1994 Tax Maps, and there have been no previous rezoning requests for this parcel.

Adjacent Zoning: The subject property is currently used as a farm. The properties to the North and East are zoned Resource Management (RM) and are part of the Francis Marion National Forest. Other properties to the East are Agricultural Residential (AGR) and contain mobile homes and single-family dwellings. Properties within the County to the West are zoned Agricultural Preservation (AG-10) and those within the Town of Awendaw are zoned Agricultural General (AG), and contain either single-family dwellings or mobile homes. The property to the South, across N Highway 17, is zoned Resource Management (RM) and is undeveloped.

Overview of Requested PD Guidelines:

The applicant is requesting to rezone from Agricultural Preservation District (AG-10) to PD-176, High School/ Middle School in Awendaw. Specifically, PD-176 requests the following:

- One academic building, maximum of 255,000 square feet;
- Accessory buildings:
 - o Fieldhouse, maximum of 10,000 square feet;
 - o Press box for concessions, maximum of 5,000 square feet;
 - o Well house, maximum of 500 square feet;
 - o Three storage buildings, combined maximum of 9,000 square feet;
- Total lot coverage of 5.9% and total building area maximum 279,500 square feet;
- Athletic fields and areas: One football field, one practice field, middle school multi-use field, one baseball field, one softball field, bleachers, one paved track, and six tennis courts;
- Resource extraction of timber and soil during the construction of the school building, facilities and stormwater detention pond;
- All utilities to serve the listed facilities, including water well/service, septic service (including waste

treatment drip field), electrical service, stormwater detention pond, and a well house will be included for water:

- Paved parking will be provided per Art. 9.3, *Off-Street Parking and Loading*, of the ZLDR in effect at the time of approval;
- All signs shall comply with Art. 9.11, Signs, and Art. 9.6.4.C, Site Lighting:
 - o One monument style, externally lit, freestanding sign to address Highway 17
 - Secondary signage addressing the entrance along Jenkins Hill Road
 - o Internal directional signage
 - Light Emitting Diode (LED) Message Boards
- Lighting for the sports and recreation areas shall follow the IES guidelines for Sports and Recreational Area Lighting:
 - o Illumination levels for field sports shall not exceed 50 foot-candles:
 - Light poles shall not exceed 80 feet in height;
- Tree protection, preservation, and replacement shall meet or exceed regulations outlined in Art. 9.4. *Tree Protection and Preservation*, of the ZLDR;
- Will follow AG-10 standards of the ZLDR in effect at the time of approval for anything not specified in the PD Guidelines, including if the property is not developed as a school.

<u>Municipalities Notified/Response</u>: The Town of Summerville, Town of Sullivan's Island, Town of Seabrook Island, Town of Ravenel, Town of Mt Pleasant, Town of Meggett, Town of McClellanville, Town of Lincolnville, Town of Kiawah Island, Town of James Island, Town of Hollywood, Town of Awendaw, City of North Charleston, City of Isle of Palms, City of Folly Beach, City of Charleston, and Colleton County were notified of the request and have not responded.

STAFF RECOMMENDATION

According to Section §4.23.9 E (9) of the *Zoning and Land Development Regulations Ordinance (ZLDR)*, applications for PD Development Plans may be approved only if County Council determines that the following criteria are met:

A. The PD Development Plan complies with the standards contained in this Article;

<u>Staff Response</u>: The PD complies with the standards contained in this Article.

B. The development is consistent with the intent of the *Comprehensive Plan* and other adopted policy documents;

<u>Staff Response:</u> The PD is consistent with the intent of the Comprehensive Plan and other adopted policy documents, as CCSD seeks to provide community facilities for a currently underserved area of Charleston County, while maintaining the rural character of the community. Additionally, a school is allowed on the subject parcel under the current AG-10 zoning, contingent upon BZA's approval of a Special Exception. The applicant has chosen to pursue a PD due to the lapse of approval that BZA imposes (12 months plus an option for a 12-month extension, if eligible).

C. The County and other agencies will be able to provide necessary public services, facilities, and programs to serve the development proposed, at the time the property is developed.

<u>Staff Response</u>: The County and other agencies will be able to provide services to the proposed development pursuant to the letters of coordination submitted by the applicant.

Because the Planned Development application meets all of the criteria of Section §4.23.9 E (9), staff recommends approval.

PLANNING COMMISSION MEETING: June 22, 2020

Recommendation: Approval with one condition (8-0) with 1 absent.

<u>Condition of Approval:</u> During Site Plan Review, the applicant and staff shall work to maximize the size of the buffer beyond 25 feet at James Turner and Jenkins Hill Roads.

<u>Notifications:</u> 155 notification letters were sent to owners of property located within 300 feet of the boundaries of the subject parcel and individuals on the East Cooper Interested Parties List on June 5, 2020. Additionally, this request was noticed in the *Post & Courier* on June 5, 2020.

<u>Public Input:</u> One letter of opposition from the Town of Awendaw was received.

Speakers: The applicant, and a member of the public, spoke in support of the application.

PUBLIC HEARING: JULY 14, 2020

<u>Notifications:</u> 155 notification letters were sent to owners of property located within 300 feet of the boundaries of the subject parcel and individuals on the East Cooper Interested Parties List on June 26, 2020. Additionally, this request was noticed in the *Post & Courier* on June 12, 2020.

Speakers: Lee Gastley, with Seamon Whiteside, spoke in support of the application.

PLANNING AND PUBLIC WORKS COMMITTEE: AUGUST 6, 2020

<u>Public Input:</u> One letter of support from the Town of McClellanville was received.

Charleston County Planned Development Zoning Map Amendment Request

PPW Committee – August 6, 2020

1st Reading – August 11, 2020

2nd Reading – September 8, 2020

3rd Reading – September 22, 2020

ZREZ-02-20-00114 PD-176: High School/ Middle School in Awendaw

• East County Area: 7820 N Highway 17

• Parcel I.D.: 711-00-00-052

Owner: Quarry Lake Plantation LLC

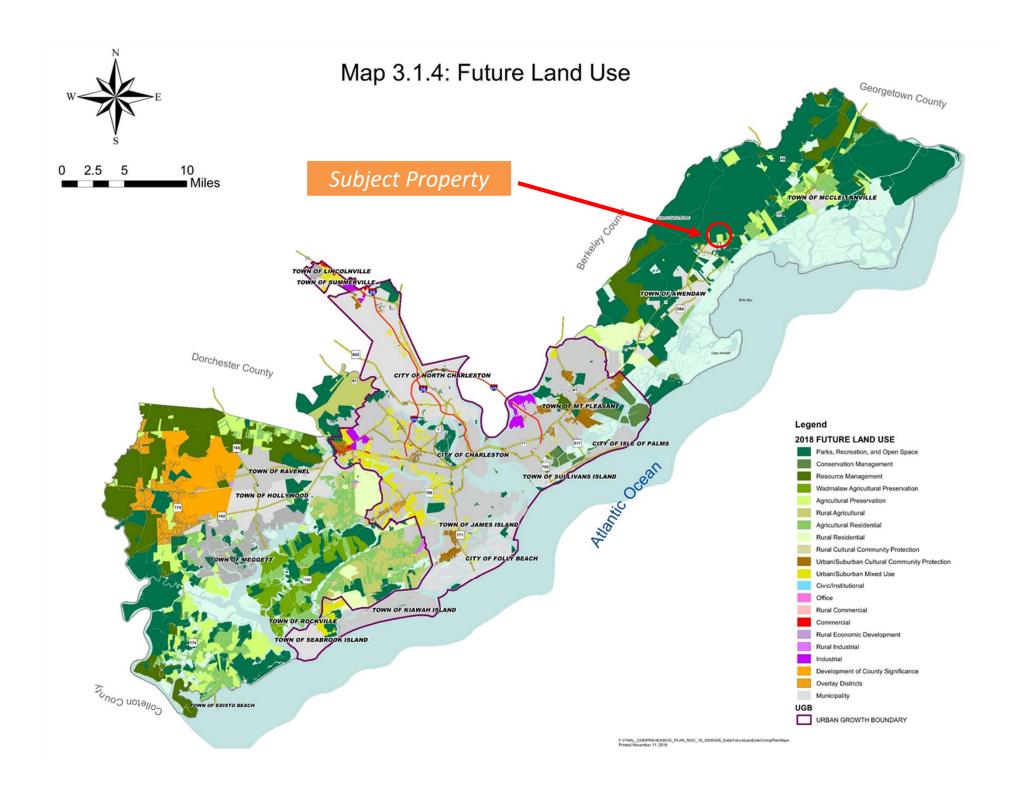
Applicant: Seamon Whiteside

• Property Size: 107.2 acres

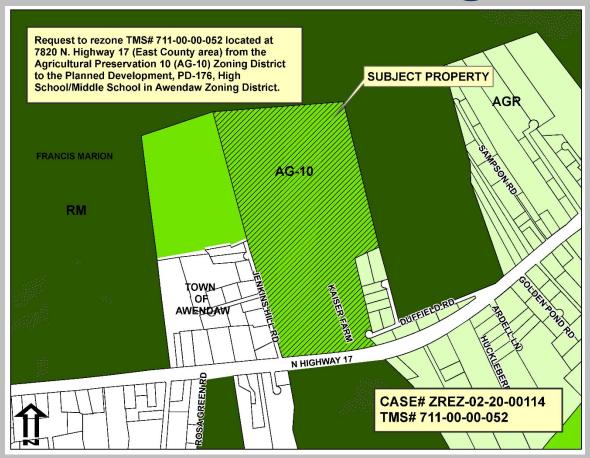
• Council District: 2 - Schweers

Zoning History

- The subject property was zoned Agricultural Preservation District (AG-10) on the 1994 Tax Maps
- There have been no previous rezoning requests for this parcel

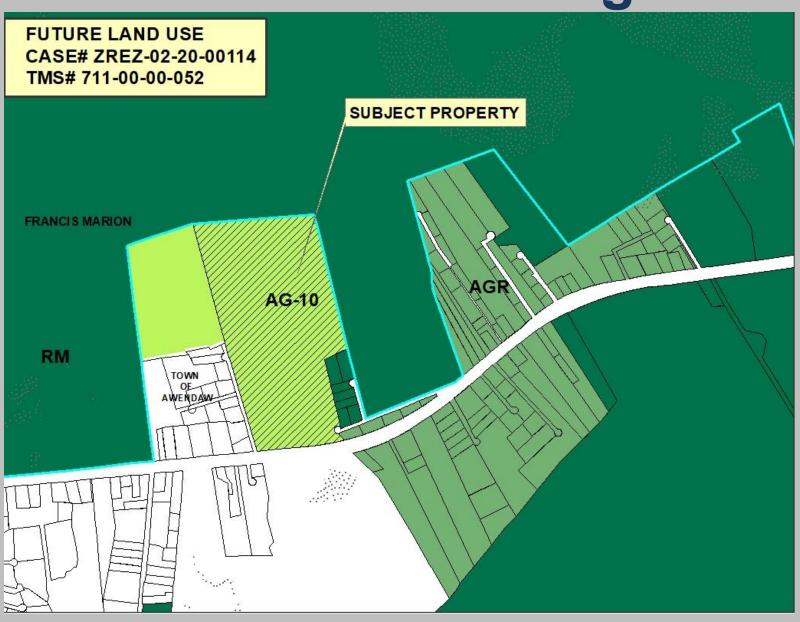


Current Zoning



The subject property is currently used as a farm. The properties to the North and East are zoned Resource Management (RM) and are part of the Francis Marion National Forest. Other properties to the East are Agricultural Residential (AGR) and contain mobile homes and single-family dwellings. Properties within the County to the West are zoned Agricultural Preservation (AG-10) and those within the Town of Awendaw are zoned Agricultural General (AG), and contain either single-family dwellings or mobile homes. Property to the South, across N Highway 17, is zoned Resource Management (RM) and is undeveloped.

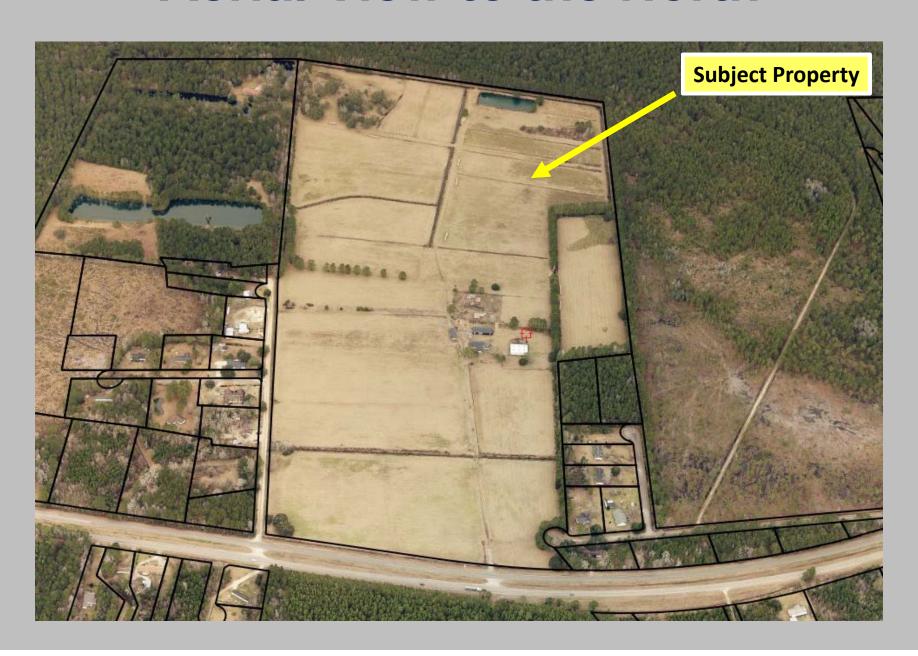
Future Land Use Designation



Aerial View to the West



Aerial View to the North



Site Photos



1 – Subject Property

2 – Adjacent Property



Site Photos



3 – Subject Property

4 – Subject Property



Requested PD Guidelines

The applicant requests to rezone from Agricultural Preservation District (AG-10) to PD-176, High School/ Middle School in Awendaw. Specifically, PD-176 requests the following:

- One academic building, maximum of 255,000 square feet
- Accessory buildings: fieldhouse, maximum of 10,000 square feet, press box for concessions, maximum of 5,000 square feet, well house, maximum of 500 square feet, and three storage buildings, combined maximum of 9,000 square feet
- Athletic fields and areas: One football field, one practice field, middle school multi-use field, one baseball field, one softball field, bleachers, one paved track, and six tennis courts
- Resource extraction of timber and soil during the construction of the school building, facilities and stormwater detention pond
- All utilities to serve the listed facilities, including water well/service, septic service
 (including waste treatment drip field), electrical service, stormwater detention pond,
 and a well house will be included for water
- Total lot coverage of 5.9% and total building area maximum 279,500 square feet

Requested PD Guidelines Cont'd

- Paved parking will be provided per Art. 9.3, Off-Street Parking and Loading, of the ZLDR in effect at the time of approval
- All signs shall comply with Art. 9.11, Signs, and Art. 9.6.4.C, Site Lighting
 - One monument style, externally lit, freestanding sign to address Highway 17
 - Secondary signage addressing the entrance along Jenkins Hill Road
 - Internal directional signage
 - Light Emitting Diode (LED) Message Boards
- Lighting for the sports and recreation areas shall follow the IES guidelines for Sports and Recreational Area Lighting
 - Illumination levels for field sports shall not exceed 50 foot-candles
 - Light poles shall not exceed 80 feet in height
- Tree protection, preservation, and replacement shall meet or exceed regulations outlined in Art. 9.4, *Tree Protection and Preservation*, of the ZLDR
- Will follow AG-10 standards of the ZLDR in effect at the time of approval for anything not specified in the PD Guidelines, including if the property is not developed as a school



Approval Criteria—Section 4.23.9(E)(9)

According to Section §4.23.9 E (9) of the Zoning and Land Development Regulations Ordinance (ZLDR), applications for PD Development Plans may be approved only if County Council determines that the following criteria are met:

- A. The PD Development Plan complies with the standards contained in this Article; Staff Response: The PD complies with the standards contained in this Article.
- B. The development is consistent with the intent of the Comprehensive Plan and other adopted policy documents;

Staff Response: The PD is consistent with the intent of the Comprehensive Plan and other adopted policy documents, as CCSD seeks to provide community facilities for a currently underserved area of Charleston County, while maintaining the rural character of the community. Additionally, a school is allowed on the subject parcel under the current AG-10 zoning, contingent upon BZA's approval of a Special Exception. The applicant has chosen to pursue a PD due to the lapse of approval that BZA imposes (12 months plus an option for a 12-month extension, if eligible).

C. The County and other agencies will be able to provide necessary public services, facilities, and programs to serve the development proposed, at the time the property is developed.

Staff Response: The County and other agencies will be able to provide services to the proposed development pursuant to the letters of coordination submitted by the applicant.

Recommendations

STAFF RECOMMENDATION: APPROVAL

The requested PD amendment is consistent with the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).

PLANNING COMMISSION RECOMMENDATION: APPROVAL WITH ONE CONDITION (8-0, 1 absent)

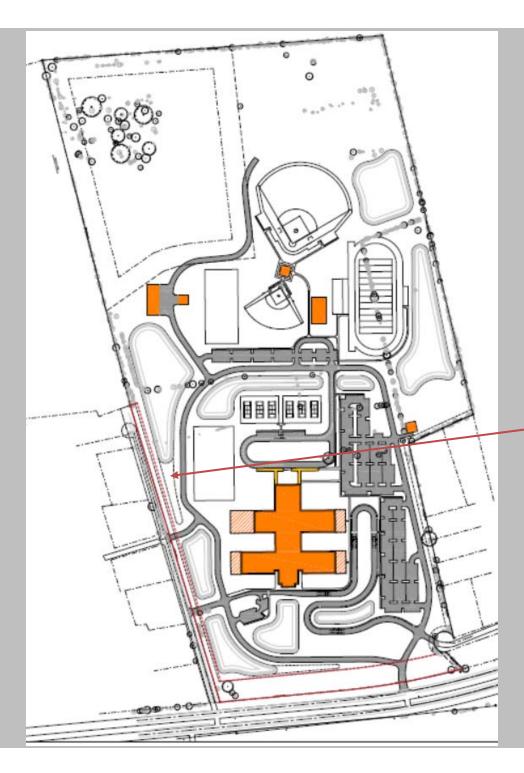
Condition of Approval: During Site Plan Review, the applicant and staff shall work to maximize the size of the buffer beyond 25 feet at James Turner and Jenkins Hill Roads.

Condition of Approval

The applicant has worked with staff to specify the following in reference to the PC condition to provide additional noise and visual screening for the existing residents living along these roads:

Show a 35' Type S-3 buffer with 3-6' berms in the area at James Turner and Jenkins Hill Roads.

Staff recommends acceptance of this condition as clarification to the existing PC recommended condition of approval.



Site Plan showing area of 35' buffer indicated in red

Public Input

1 letter of opposition from Bill Wallace, Town Administrator of the Town of Awendaw

1 letter of support from Rutledge Leland, Mayor for the Town of McClellanville

Notifications

June 5, 2020 – Planning Commission Notifications

- 155 notifications were sent to owners of property located within 300 feet of the boundaries of the subject parcel and individuals on the East Cooper Interested Parties List
- Request advertised in the Post & Courier

June 12, 2020 – Public Hearing Notifications

Public Hearing request advertised in the Post & Courier

June 26, 2020 – Public Hearing Notifications

 155 notifications were sent to owners of property located within 300 feet of the boundaries of the subject parcel and individuals on the East Cooper Interested Parties List

Charleston County Planned Development Zoning Map Amendment Request

PPW Committee – August 6, 2020

1st Reading – August 11, 2020

2nd Reading – September 8, 2020

3rd Reading – September 22, 2020

PD GUIDELINES	

High School / Middle School in Awendaw

Charleston County, South Carolina TMS711-00-00-052 2/28/2020



PD Prepared for:

Charleston County School District

Prepared By/Applicant:



501 Wando Park Blvd Suite 200 Mount Pleasant, SC | (843) 884-1667 | seamonwhiteside.com

Project # 8067

High School/Middle School in Awendaw PD

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High School/Middle School PD

25. Appendices

- A. Site Location Map & Current Aerial
- B. Tax Map, Existing Land Use Map
- C. As-built Survey/Tree Survey
- D. Aerial Conceptual Sketch Plan
- E. Wetland Letter Application & Receipt
- F. Architectural Site Plan
- G. Landscape Sketch Plan
- H. Utility Plans
- I. Circulation Plan
- J. Traffic Impact and Access Study
- K. Historical & Archaeological Survey
- L. Site Photography
- M. Letters of Coordination

1. Statement of Objectives

The objective of the High School/Middle School in Awendaw PD (Planned Development) is to create flexibility within the existing AG-10 zoning to allow for a high school and middle school with associated facilities such as parking, football, track, baseball, softball and tennis.

A Conceptual Site Plan for the school and surrounding facilities is included in Appendix D of this report. Any modifications to the site plan shall be approved at staff level.

2. Intent and Results of Proposed PD

Intent and results of the proposed school use meets with the objectives of §4.23.4 of the ZLDR in the following ways:

- A. A maximum choice in the types of environment available to the public by allowing a development that would not be possible under the strict application of the standards of this Ordinance that were designated primarily for development on individual lots:
 - a. Educational and recreational facilities are accessible to residents of the area and of Charleston County.
 - b. A centrally located community 'hub' for the towns of McClellanville and Awendaw is provided.
- B. A greater freedom in selecting the means to provide access, light, open space and design amenities:
 - a. Increased access to the site is available to residents through sport fields and facilities versus the current privately-owned agricultural use.
- C. Quality design and environmentally sensitive development by allowing development to take advantage of special site characteristics, locations and land use arrangements:
 - a. Development of the school, including utilities will occur in areas already cleared of vegetation, minimizing the need for tree removal.
 - b. Quality open spaces and sports/recreation fields are provided for the school and community.
 - c. The conceptual site plan (see Appendix D) provides interconnected stormwater detention ponds, minimizing the need for below-ground drainage.

- D. A development pattern in harmony with the applicable goals and strategies of the Comprehensive Plan, the proposed school use meets the following:
 - 2.2.1 Land Use: Provides needed community facilities for an underserved area of the county, centrally situated and easily accessible by the adjacent highway. Additional buffer widths will be provided where the site is adjacent to private property, respecting the rights of the neighbors.
 - 2.2.2 Economic Development: Provides job opportunities for area residents, as well as needed services for healthy local governments.
 - 2.2.5 Population: Accommodates the socioeconomic diverse and growing population of Awendaw, McClellanville, and the surrounding area with needed educational facilities in an environmentally and fiscally sustainable manner.
 - 2.2.7 Transportation: Utilizes existing highway and local roadways to serve the proposed school, maintaining the existing community character.
 - 2.2.8 Community Facilities: Community facilities and services will be provided, coordinated with Charleston County, ensuring capacity for expected growth.
 - LU 1. The proposed school will not affect any critical line areas.
 - LU 2. A 100-foot buffer, planted to meet S-3 planting requirements, will be provided between Highway 17 and school structures.
 - LU 4. The school will be located along existing road systems that will accommodate the expected traffic.
 - LU 6. Utilizes the implementation tool of a Planned Development Zoning District as well as increases the level of service (LOS) of the CCSD by centrally locating the new school between the towns of Awendaw and McClellanville.
 - LU 16. This PD will follow the approval process for amending the BCDCOG 208 Water Quality Management Plan.
- E. The permanent preservation of common open space, recreation areas and facilities:
 - Recreation areas and facilities provided on the site will be available for use by the school and students as well as residents.

- F. An efficient use of the land resulting in more economical networks of utilities, streets, schools, public grounds and buildings, and other facilities:
 - a. The conceptual plan (See Appendix D) provides all elements (buildings, parking, sports fields, etc.) carefully arranged to best utilize the site while providing accessibility to all areas from the centrally located school structure.
 - b. Well water will be utilized to provide potable water for the site, and a new septic system will be created to serve the school, with the drip area located in an existing field with a minimum of 100 feet of buffer on all sides per SCDHEC requirements.
- G. A creative approach to the use of land and related physical facilities that results in better development and design and the construction of amenities:
 - a. Given the underserved community, the location of a new middle/high school at this site will allow for the provision of needed recreational and athletic amenities that will serve both students and the community.

3. Site Information

The property is a +/- 107.2-acre tract of land composed of +/- 106.4 acres upland, +/- 0.8 ac non-jurisdictional pond and is located along the north side of Highway 17 in Charleston County in Awendaw, South Carolina. Access to the property is provided by U.S. Highway 17 and three roads. Unimproved Kaiser Farm Road connects internal to the property, Jenkins Hill Road is adjacent to the site along the west side and Duffield Road connects to the property at the southeast corner. Along Highway 17, there are residential properties on both sides of the property and the Francis Marion National Forest is located to the north and east of the property.

The site is a currently used as a farm and is made up of farmland and agricultural uses. A large portion of the site is open, with relatively few trees. There are several grand trees including live oaks, water oaks, and black gums. There is a notable cluster of live oaks in the northwest corner of the property. Historic use of the property consists of rural residential, farmland and open pasture.

4. Allowed Land Uses

Middle and high school facilities are planned for the entirety of the site. All facilities are available to the public for use and may or may not require application to the CCSD to do so. Facilities included as part of this PD are as follows:

- School Buildings:
 - One main academic building (+/- 255,000 sf).
 - Anticipated ancillary buildings including but not limited to: a fieldhouse (+/- 10,000 sf), press box for concessions (+/-5,000 sf), well house (+/- 500sf), and three storage buildings (+/- 9,000 sf).

- The exact number of buildings will be determined during programming and the design phase of the project.
- The total building area is equal to \pm 279,500 sf., which is a maximum floor area ratio and lot coverage of \pm 5.9-percent.
- Utilities: All utilities to serve the listed facilities, including water well/service, septic service (including waste treatment drip field), electrical service, and stormwater detention pond. A well house will be included for water.
- Roads: Impact to existing roads will be affected by the development.
- Parking: Paved parking will be provided for allowed facilities based on ZLDR requirements.
- Athletic Fields: One football field, one practice field, middle school multi-use field, one baseball field, one softball field and bleachers are anticipated.
- Paved Track
- Tennis Courts (6)
- Resource Extraction: Due to construction of the school and school related facilities, site activities, including the digging of stormwater detention ponds and tree removal, may result in the extraction of soil or lumber from the site.

5. Maximum Density

No residential uses are proposed for this Planned Development.

6. Impact Assessment/Analysis

a. Utilities

- i. Water: A well to be dug onsite will provide potable water for the schools and associated recreational facilities on the site.
- ii. Wastewater: A septic system will be utilized to service the schools and associated athletic facilities. Wastewater disposal shall be coordinated with South Carolina Department of Health and Environmental Control (SCDHEC) and serviced through septic services approved by SCDHEC. Prior to applying for Site Plan Review, the applicant shall submit a letter to the Zoning and Planning Department requesting a determination by the County regarding whether an amendment to the 208 Water Quality Management Plan is required for the septic system. If the County determines an amendment to the BCDCOG 208 Water Quality Management Plan is required, the amendment must be approved by the BCDCOG prior to submittal of any zoning permit applications for land disturbance activities/development or any Site Plan Review applications.
- iii. Electrical: Power will be provided to the site from existing overhead electric lines located along the north side of Highway 17.

b. Traffic Study

i. A Traffic and Access Impact Study has been performed by Ridgeway Traffic Consulting, LLC and is provided in its entirety in Appendix I. Conclusions of this study state, in part:

"Turn lane improvements have been recommended for the main intersection to US 17 and the intersection of US 17 at Jenkins Hill Road that will minimize impacts on US 17 through volumes and provide for good traffic operations. Conflicting traffic volumes along Jenkins Hill Road are expected to be minimal although a right-turn lane is recommended at the southern access to separate passenger vehicles and buses that will continue north."

c. Emergency Services

- i. This site is currently under the jurisdiction of Charleston County Sherriff's Office and the Charleston County Emergency Services.
- ii. Refer to Appendix M, Letters of Coordination, regarding all necessary utility and infrastructure connection coordination and additional services needed for this parcel.

d. Drainage

- i. The planned development shall comply with all Charleston County Stormwater Ordinances and South Carolina Department of Health and Environmental Control (SCDHEC) Regulatory requirements. For site locations within sensitive drainage basins, additional stormwater design and construction requirements may be required by the Director of Public Works prior to Stormwater permit approval and issuance. Sensitive drainage basins may include but are not limited to areas which incur flooding conditions, are designated as Special Protection Areas, discharge to water bodies with restrictive Water Quality conditions, and/or are governed by other restrictive Water Quality and Water Quality conditions. Where possible and allowed by permit, the proposed site may connect its stormwater system with existing conveyances. Best Management Practices (BMP's) shall be utilized, installed, and maintained in compliance with applicable approved permits throughout all phases including, but not limited to, site development, construction, and post construction.
- ii. Applicant shall comply with Charleston County Stormwater Ordinances and SCDHEC Regulatory requirements for pre and post construction water quality and quantity. Stormwater design, construction, and maintenance shall be in compliance with applicable approved Charleston County Stormwater Permits. Comprehensive Master Drainage Plan must be provided for proposed site and incorporate all development phasing, future development, existing drainage systems and conveyances, and proposed drainage systems and conveyances. The Comprehensive Stormwater Master Plan shall also include discharge management plans for specialized activities within the development. Utilization of approved and permitted Low Impact Design elements is encouraged within a comprehensive site Master Drainage Plan.

iii. The maintenance of all stormwater devices, structures, and facilities will be the responsibility of the Developer and/or Property Owner's Association. A Covenants For Permanent Maintenance of Stormwater Facilities shall be established by responsible party and recorded at the Registrar of Deeds office.

e. Garbage Disposal

i. No public garbage collection is currently available. The property will utilize private contract waste disposal.

7. Development Schedule

- i. The exact year for school construction is unknown at this time and will depend on enrollment growth or the attendance zone reaching the 500 minimum student population threshold per school. The District does not typically approve funds for new school construction for a student population that is less than 500.
- ii. The site will remain in its natural state until it is developed.
- iii. If phasing is to occur, it will be determined during the design phase.

8. Open Space

- i. Open space will be owned and maintained by the school.
- ii. See Common Open Space for more information.

9. Streets

i. No public rights of way are planned for this development. All internal drives will be owned and maintained by the CCSD.

10. Compliance with ZLDR

Items not specifically addressed within this Planned Development Guidelines shall comply with and reference the Charleston County Zoning and Land Development Regulations (ZLDR) for the AG-10 Zoning District, specifically Chapters 4,6,8,9 and 12 in effect at the time of the subsequent application submittal.

The PD agrees to proceed with proposed development in accordance with the provisions of these zoning regulations, applicable provisions of the Charleston County Comprehensive Plan, and with such conditions as may be attached to any rezoning to the applicable PD district.

The provisions of Article 3.10, Variances, of this Ordinance shall not apply to the planned development and all major changes to the planned development must be approved by County Council. Tree variances may be granted in accordance with this Article and all other sections of this Ordinance.

This Planned Development intends to meet the criteria listed in Chapter 4, Article, 4.23 of the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).

No person shall erect or alter any building, structure, or sign on any tract of land or use any tract of land within the PD except in conformance with these guidelines and regulations. Unless modified herein, definitions of terms used in the Planned Development Guidelines shall follow definitions listed in the Charleston County Zoning

and Land Development Regulations Ordinance (ZLDR) for the AG-10 Zoning District, as amended from time to time.

Administration and enforcement of the Planned Development Guidelines shall follow the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).

This PD complies with the approval criteria contained in Section 4.23.9(E)(9) and as stated below:

- The PD complies with the standards contained in Article 4.23 PD, Planned Development.
- See "Intent and Results of Proposed PD" section for more information.
- See the "Letters of Coordination" that state the County and other agencies will be able to provide the necessary public services, facilities, and programs to serve the development proposed, at the time the property is developed.

11. Historical and Archaeological Survey

i. There are no known historical or cultural artifacts on this property. See Appendix K for Historical and Archaeological Site Assessment.

12. Letters of Coordination

- i. See Appendix M.
- 13. Dimensional Standards (*Note: No residential uses are proposed for this PD.)
 - Dimensional standards shall comply with AG-10 density standards of the ZLDR in effect at time of subsequent application development submittal if the property is not developed as a school.
 - ii. The Dimensional Standards Table setbacks do not apply to storage and ancillary buildings however, these buildings shall be placed outside of required buffers.

DENSITY/INTENSITY AND DIMENSIONAL STANDARDS TABLE				
MINIMUM SETBACKS (SCHOOL BUILDING)				
FRONT/STREET SIDE	100′			
INTERIOR SIDE	100′			
REAR	100′			
MINIMUM BUFFERS				
HWY 17	100′ S3			
NORTH SIDE (RM-FOREST)	0'			
EAST SIDE (RM-FOREST)	0'			
EAST SIDE (AGR-RESID.)	25' TYPE B			
WEST SIDE (AG-10)	0'			
JENKINS HILL ROAD	25′ S2			
MAXIMUM HEIGHT				
HEIGHT	50' (SCHOOL) & 35' (ALL OTHER USES)			

14. Architectural Guidelines

- i. Architectural design for the school will reflect the local rural character. See Appendix F for a conceptual plan for the school.
- ii. Architectural standards shall comply with Article 9.6 of the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).
- iii. An architectural wall is not required when ten (10) or more parking spaces are located between the right-of-way and front façade of a building. There is a 100' required buffer along Highway 17 and the school building is setback from the road far enough to provide an effective visual buffer for the parking area.

15. Lots to Abut Upon Common Open Space

i. No individual lots are planned for this site.

16. Access

- i. Access to the site shall be primarily provided via U.S. Highway 17 and Jenkins Hill Road. SCDOT approval and applicable encroachment permit shall be required for all activity within the highway right of way. Any improvements or access to Jenkins Hill Road will require approval by Charleston County.
- ii. Within the site, paved vehicular accessways will be provided in 24-foot and 15' minimum widths for two and one lane traffic. Lanes specifically designed for student drop-off and for buses, including stacking space for both, will be provided to serve the schools. Areas between structures shall be covered by easements where necessary for access, maintenance and utility service.

17. Commercial Areas

i. There are no commercial areas associated with this PD.

18. Industrial Areas

i. There are no industrial areas associated with this PD.

19. Areas Designated for Future Use

i. Development will remain in its natural state until such time as development permits are approved.

20. Signs and Lighting

- i. One monument style, externally lit, free standing sign that complies with the requirements of ZLDR Art. 9.11 Signs, will be provided to address Highway 17 with secondary signage addressing the entrance along Jenkins Hill Road. Only directional signage shall be allowed internal to the site and shall comply with ZLDR Article 9.11.
- ii. Light Emitting Diode LED Message Boards are allowed and do not require a special exception. LED Message Boards shall comply with Article 9.11 Signs of the ZLDR.
- iii. All site lighting shall comply with Article 9.6.4.C. of the ZLDR.

iv. Lighting for the sports and recreation areas shall follow the IES guidelines for Sports and Recreational Area Lighting. Illumination levels for field sports shall not exceed 50 foot-candles. Light poles shall not exceed 80 feet in height.

21. Parking

- i. Parking is per CCSD standards for schools: one (1) space per each vehicle owned and operated by the school, plus two (2) per employee (including faculty, administrative, etc.), plus 1 per 8 students.
- ii. Parking shall comply with Article 9.3 of the ZLDR.

22. Tree Protection

i. Tree protection, preservation, and replacement shall meet or exceed regulations outlined in Article 9.4 of the Charleston County Zoning and Land Development Regulations Ordinance (ZLDR).

23. Resource Areas

- i. Several large hardwood trees that are found in the northwest corner of the site will remain. Existing irrigation ditches and the primarily pine trees that have grown along them will be filled and removed as necessary to provide for the development of the site and for the safety of students. Tree protection, preservation and replacement shall meet or exceed regulations outlined in Article 9.4 of the ZLDR.
- ii. The PD does not anticipate plans to change the non-jurisdictional pond located at the rear of the property however, if necessary, the pond may be modified, altered or removed.

24. Common Open Space

- i. Landscaping shall meet or exceed regulations outlined in Article 9.5 Landscaping, Screening and Buffers of the ZLDR.
- ii. As illustrated on the Aerial Conceptual Sketch Plan, in Appendix D, proposed Common Open Space will include +/-76 acres, or approximately +/-71% of the overall +/-107.2 acres. Areas include all athletic fields and recreational structures, and septic drip field with surrounding 100' buffer. It does not include any new constructed ponds, landscape buffers, or any open areas around the new school building or parking.
- iii. All fencing shall be commensurate with the type of facility provided. All fencing shall meet or exceed regulations outlined in the ZLDR at the time of subsequent development application. School fencing shall meet Charleston County School District requirements for safety.

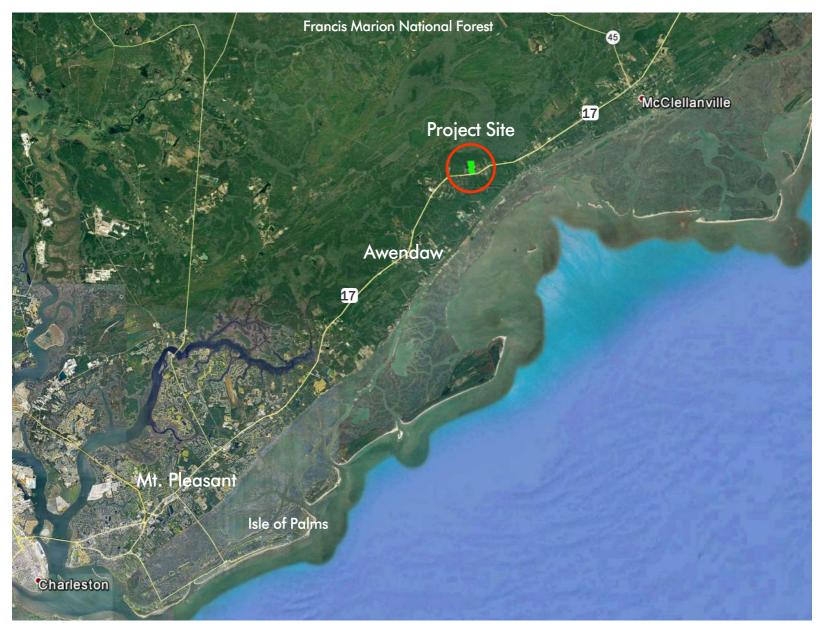
APPENDIX A:

SITE LOCATION MAP & CURRENT AERIAL



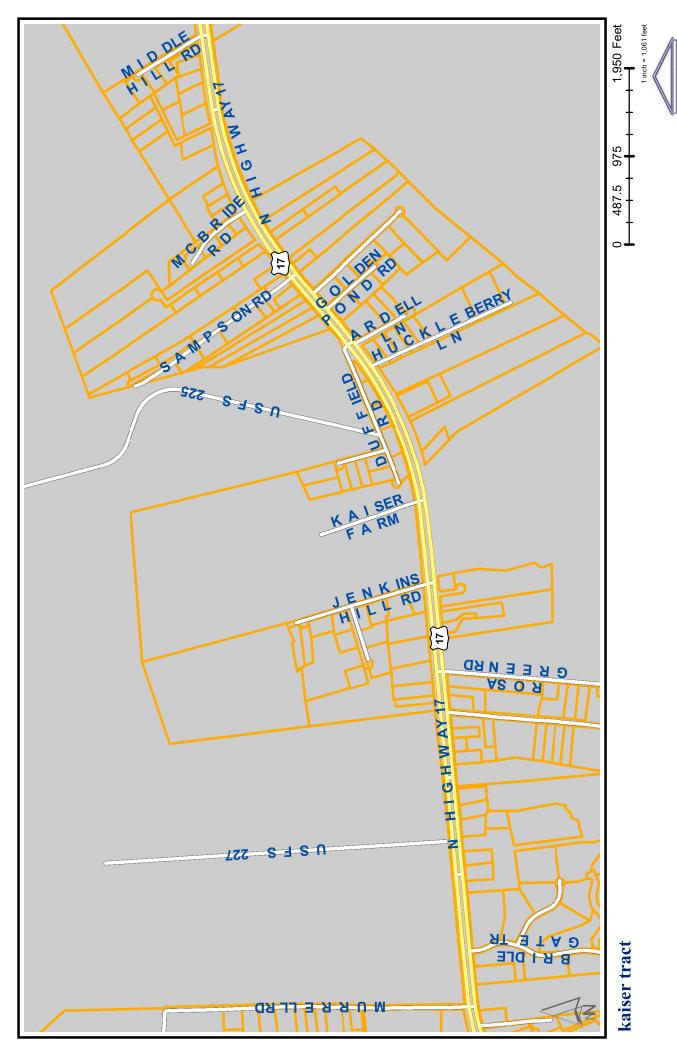






APPENDIX B:

TAX MAP & EXISTING LAND USE MAP



Note: The Charleston County makes every effort possible to produce the most accurate information. The layers contained in the map service are for information purposes only. The Charleston County makes no warranty, express or implied, nor any guaranty as to the content, sequence, accuracy, timeliness or completeness of any of the information provided. The County explicitly disclaims all representations and warranties. The reader agrees to hold harmless the Charleston County for any cause of action and costs associated with any causes of action which may arise as a consequence of the County providing this information.

Author: Charleston County SC Date: 2/18/2019

CHARLESTON
COUNTY
SOUTH CAROLINA

田田



Charleston County SC

■ COUNTY

SOUTH CAROLINA

1 inch = 819 feet

Note: The Charleston County makes every effort possible to produce the most accurate information. The layers contained in the map service are for information purposes only. The Charleston County makes no warranty, express or implied, nor any guaranty as to the content, sequence, accuracy, timeliness or completeness of any of the information provided. The County explicitly disclaims all representations and warranties. The reader agrees to hold harmless the Charleston County for any cause of action and costs associated with any causes of action which may arise as a consequence of the County providing this information.

Author: Charleston County SC Date: 11/26/2019

APPENDIX C: AS-BUILT SURVEY/ TREE SURVEY



VICIINTY MAP: NOT TO SCALE

LEGE	ND	LEGEND
6	PROPERTY CORNER FOUND, AS DESCRIBED	PROPERTY LINE
Ö	PROPERTY CORNER, SET	— ADJACENT PROPERTY LINE
-	POWER POLE	——EP——EP—— OVERHEAD POWER LINE
	ELECTRIC BOX	——EUP——EUP—— UNDERGROUND POWER LINE
0	TELEPHONE PEDISTOOL	——ET——ET—— TELEPHONE LINE
\odot	TREE, AS DESCRIBED	——ED——ED—— STORM DRAINAGE LINE
$\widecheck{\odot}$	GRAND TREE, AS DESCRIBED (24" +)	——EG——EG—— GAS LINE

PLAT BOOK PAGE
BW 198
CO 119
S18 0245
BW 4
N 160
O 94

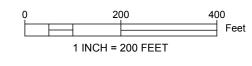
DEED BOOK PAGE
R186 275
G180 564

SC DOT DOCKET NO. 10.743

SHEET 30-31









1. ANYTHING SHOWN OUTSIDE THE DEFINED BOUNDARY OF THIS PLAT IS FOR DESCRIPTIVE PURPOSES ONLY.

- 2. AREA DETERMINED BY COORDINATE (DMD) METHOD.
- 3. THE PUBLIC RECORDS REFERENCED ON THIS PLAT ARE ONLY THOSE USED AND NECESSARY FOR THE ESTABLISHMENT OF THE BOUNDARY OF THIS PROPERTY. THEY ARE NOT AND DO NOT CONSTITUTE A TITLE SEARCH.
- 4. THE PROPERTY IS LOCATED IN FLOOD ZONE X AS SCALED FROM F.I.R.M PANEL NO. 45019C0190J. REVISED NOV. 17, 2004.
- 5. THE LOCATION OF OBVIOUS, ACCESSIBLE UTILITIES WERE PHYSICALLY SURVEYED. UNDERGROUND, INACCESSIBLE UTILITIES ARE SHOWN IN AN
- APPROXIMATE LOCATION ONLY.
 6. COORDINATES ARE BASED ON SOUTH CAROLINA STATE PLANE (NAD 83).
- 7. ELEVATIOS ARE BASED ON NGVD 1929.
- 7. WETLANDS WERE NOT SURVEYED FOR THIS BOUNDARY.
- 8. EASEMENTS MAY EXIST OUTSIDE THE KNOWLEDGE OF THE SURVEYOR WHICH WERE NOT SHOWN ON THE REFERENCE PLATS.

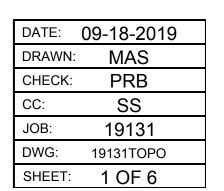
* BENCHMARK INFORMATION CONTACT: MICHAEL SCHMIEDER SOUTHEASTERN LAND SURVEYING, LLC 843-795-9330

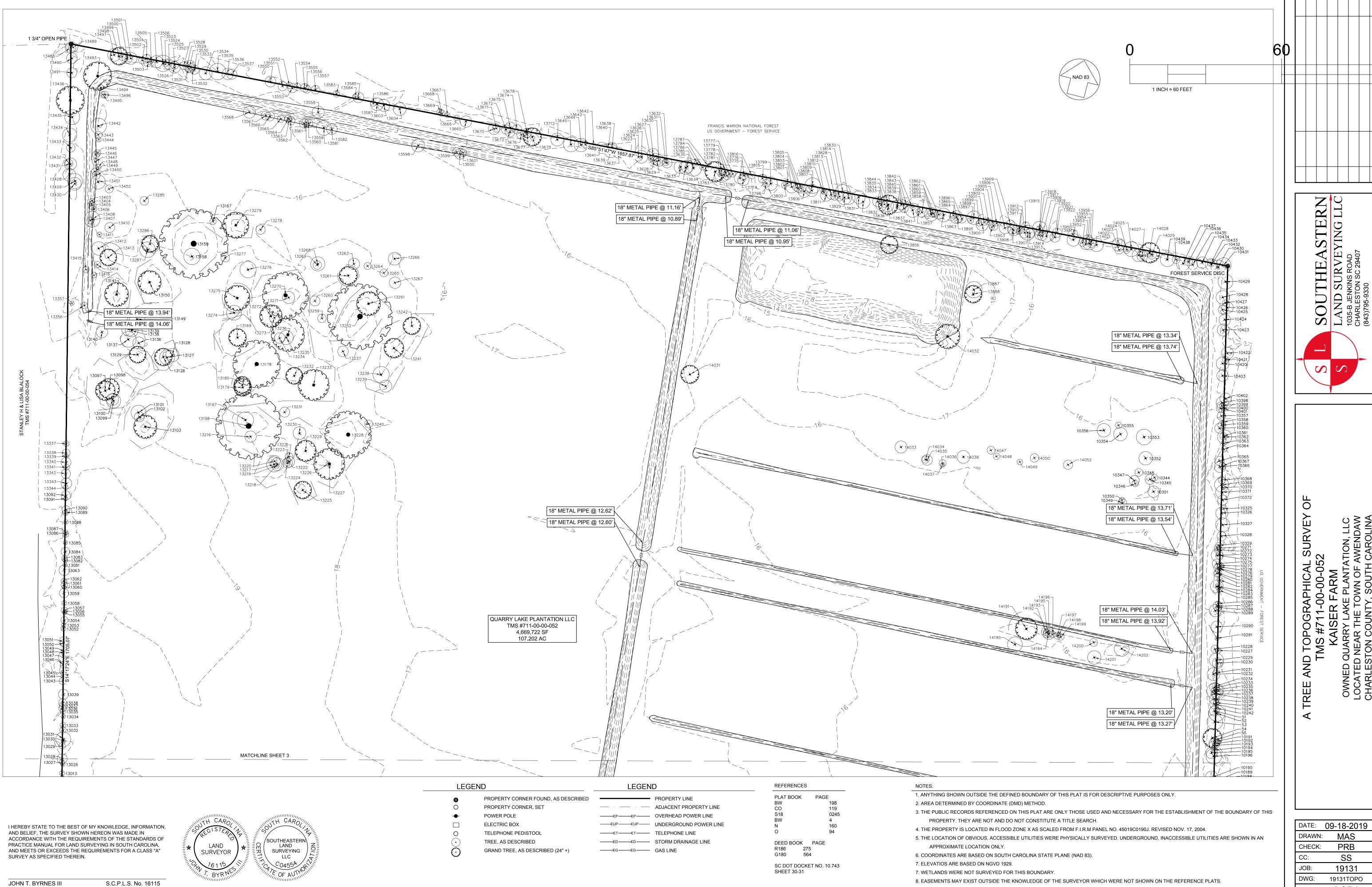
	PARCEL CURVE TABLE								
Curve #	Length	Radius	Delta	Chord Direction	Chord Length				
C1	272.76	3769.72	004.1457	N82°30'05"E	272.70				
C2	19.60	3769.72	000.2980	N80°11'39"E	19.60				
С3	281.36	3769.72	004.2764	N77°25'37"E	281.88				
C4	225.76	50.00	258.6943	N29°31'18"E	77.33				

I HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN.

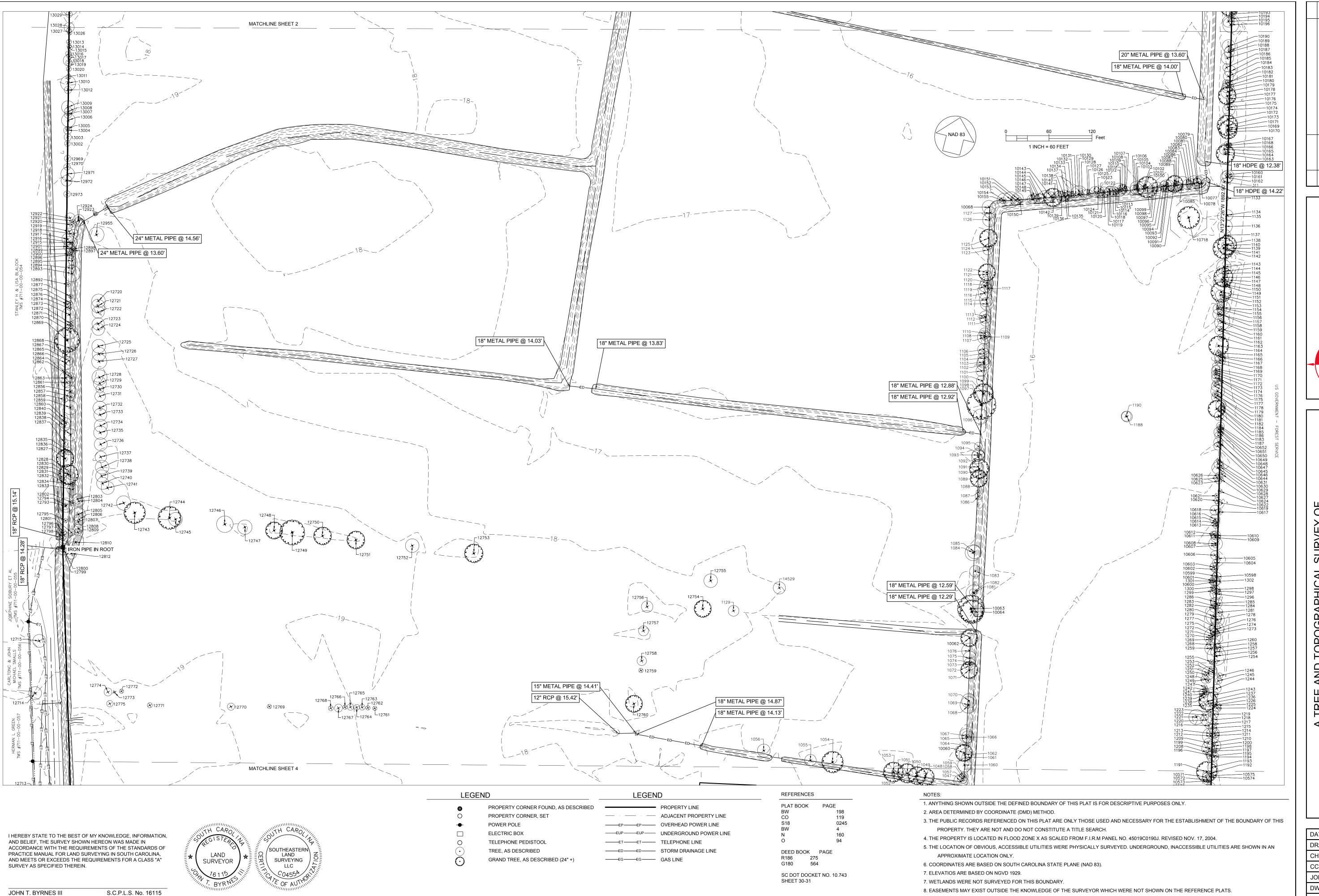








DATE: 09-18-2019 MAS PRB CHECK: SS 19131 19131TOPO SHEET: 2 OF 6



TOPOGRAPHICAL SURVEY OF

MS #711-00-00-052

KAISER FARM

JARRY LAKE PLANTATION, LLC
JEAR THE TOWN OF AWENDAW

ON COUNTY, SOUTH CAROLINA

DATE: 09-18-2019

DRAWN: MAS

CHECK: PRB

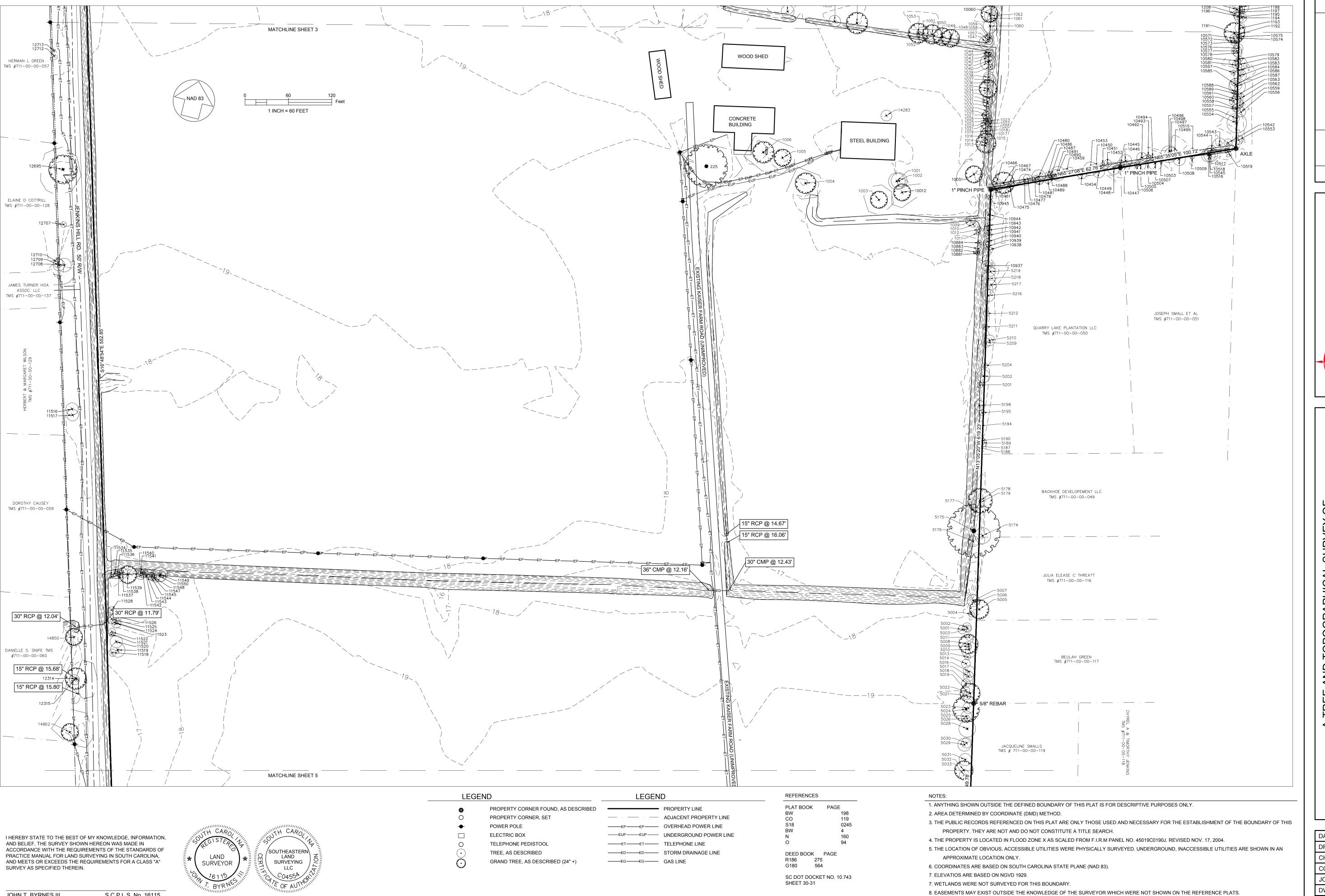
CC: SS

JOB: 19131

DWG: 19131TOPO

3 OF 6

SHEET:

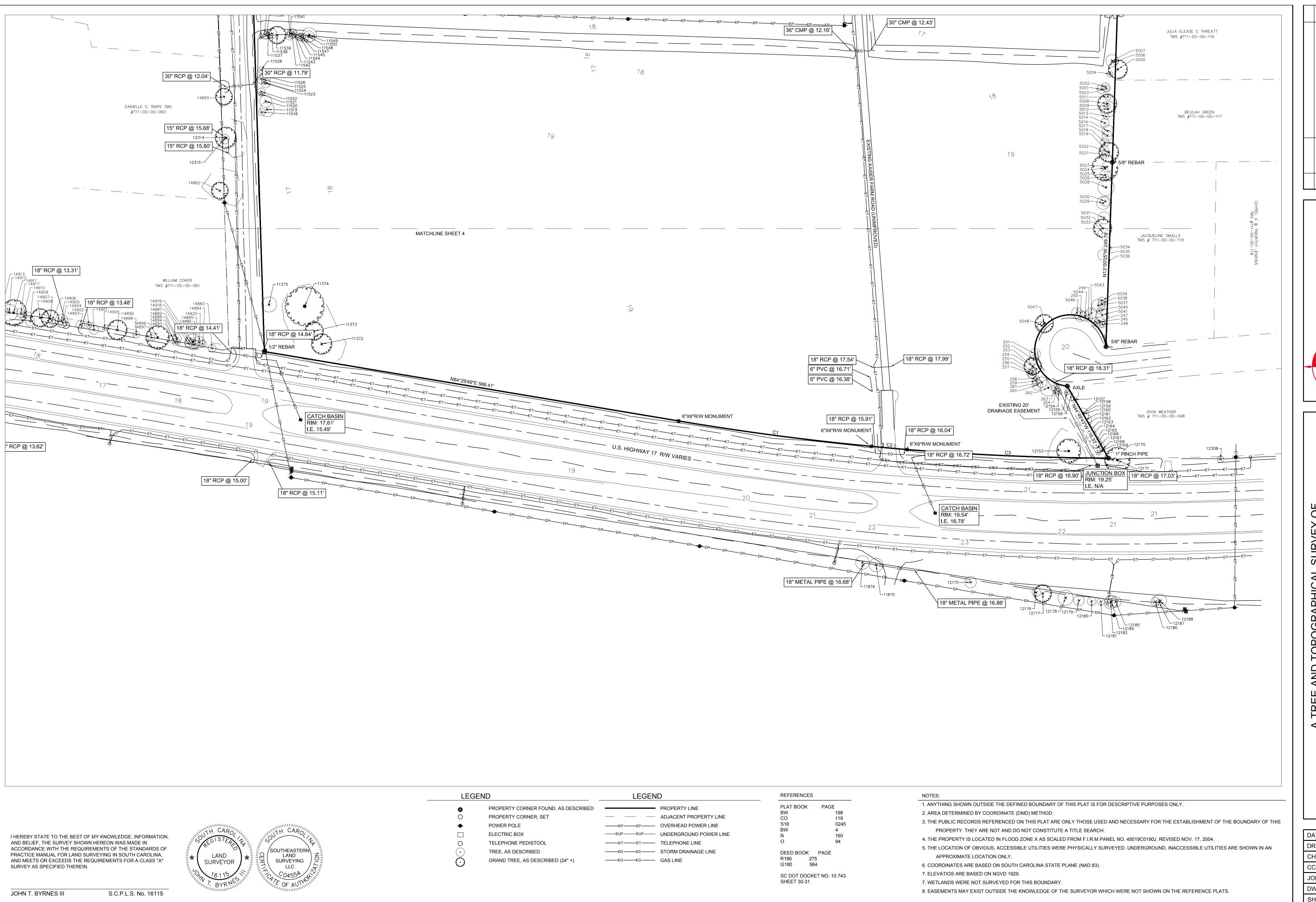


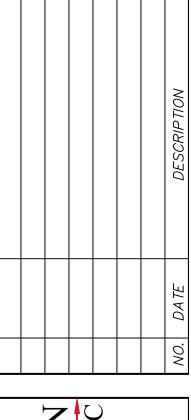
JOHN T. BYRNES III

S.C.P.L.S. No. 16115



DATE: 09-18-2019 MAS PRB CHECK: SS 19131 19131TOPO SHEET: 4 OF 6







A TREE AND TOPOGRAPHICAL SURVEY OF
TMS #711-00-052
KAISER FARM
OWNED QUARRY LAKE PLANTATION, LLC
LOCATED NEAR THE TOWN OF AWENDAW
CHARLESTON COUNTY, SOUTH CAROLINA

DATE: 09-18-2019

DRAWN: MAS

CHECK: PRB

CC: SS

JOB: 19131

DWG: 19131TOPO

SHEET: 5 OF 6

51 52	14 17+6	PINE	1082 1083	6+4 16	GUM PINE	1186 1187	6+4	PINE	5018 5019	12 11	L(
53	16+6	PINE	1084	22	PINE	1188	8+7	PINE	5021	11	L
54	22+5	PINE	1085	19	PINE	1190	14	PINE	5022	28	119
55 225	10 30+29	PINE LO	1086 1087	10 6	GUM GUM	1191	13+10+6 6	PINE PINE	5023 5024	15 20+17	PII Li
245	15	PINE	1087	24	PINE	1193	14	GUM	5025	15	PII
246	10	PINE	1089	13	PINE	1194	13	PINE	5026	8	PH
247	12 9	PINE	1090 1091	21+6 15	PINE PINE	1195	14 10	PINE PINE	5028 5029	15+8	119
248 249	10	PINE PINE	1091	19	PINE	1197	6	LO	5030	18 14	119 119
250	15	PINE	1093	17	PINE	1198	6	LO	5031	17	PII
251	15	PINE	1094	11	PINE	1199	16+5	PINE	5032	26	119
252 253	12 15+10	PINE PINE	1095 1096	11 21	PINE	1200 1208	19 6	PINE PINE	5033 5034	14 12	119 119
254	12	PINE	1097	16+16+9	PINE	1209	12	PINE	5035	16	PII
255	10	PINE	1098	6	lo	1210	6	PINE	5036	10	LA
256 257	13 11	PINE PINE	1099 1100	28 15	PINE PINE	1211	6 15+8	PINE PINE	5037 5038	18 10	119 119
258	8	PINE	1101	15	PINE	1213	13	PINE	5039	10	PII
259	11	PINE	1102	20	PINE	1214	14	PINE	5040	8	1IA
260 261	15 15	PINE PINE	1103 1104	17 19	PINE	1215 1216	12 9	PINE PINE	5041 5043	18 15	119
262	23	PINE	1104	15	PINE	1217	6	GUM	5043	14	119 119
263	11	PINE	1106	16	PINE	1218	13	pine	5046	15	119
264	12	PINE	1107 1108	19 11	PINE PINE	1219 1220	11 15	PINE PINE	5047	26	PII
311 1001	10 23	PINE	1108	13	PINE	1221	21	LO	5048 5174	12 22	119 119
1002	22	LO	1110	15	PINE	1222	8	PINE	5175	7+4	L
1003	24	CEDAR	1111	16 17	PINE	1223 1224	7 11	PINE PINE	5176	8+7	L
1004	29 24	LO GUM	1112 1113	17 6	PINE	1224	8	PINE	5177 5178	12 24+10	119 119
1006	30	GUM	1114	18	PINE	1226	7	PINE	5179	13	PII
1009	13	PINE	1115	19 17	PINE	1235 1236	8 7	PINE	5187	8	0/
1010 1011	<u>8</u> 6	PINE PINE	1116 1117	17 12	PINE PINE	1236	/ 17+9	GUM	5188 5189	10 12	119 119
1012	7	PINE	1118	8	PINE	1238	12	PINE	5190	14	119
1013 1014	16 12+7+5+4	PINE PINE	1119 1120	17 18	PINE PINE	1239 1240	6 13	PINE PINE	5194 5195	<u>9</u> 8	119 O
1015	9	PINE	1121	12	PINE	1241	9	PINE	5198	14	PII
1016	19	PINE	1122	24	PINE	1242	6	PINE	5201	8	W
1017 1018	10+8 17	PINE PINE	1123 1124	14 8	PINE LO	1243 1244	10 12	PINE PINE	5202 5204	18 8	119 W
1019	8	PINE	1125	25	PINE	1245	9	PINE	5209	13	119
1020	10+3	PINE	1126 1127	19 16	PINE PINE	1246 1247	<u>8</u> 6	PINE LO	5210	15	PII
1021 1022	12 6	PINE PINE	1127	15	PINE	1248	7	PINE	5211 5212	8	119 119
1023	10	PINE	1133	6	GUM	1249	11	PINE	5216	17	1IA
1024	7 13	PINE	1134 1135	15 6+6	PINE GUM	1250 1251	6 18	PINE PINE	5217 5218	14 18	W III
1025 1223	15	PINE PINE	1136	20	PINE	1252	12	PINE	5219	13	PII
1248	17+7	PINE	1137	16 7	PINE	1253 1254	12 7	PINE GUM	10012	24	L
1273 1298	16+7 22+6	PINE PINE	1138 1139	12+12+6	PINE PINE	1255	6	LO	10051 10060	24 24	LI
1323	11	PINE	1140	8+6+5+5+3	POPLAR	1256	13	PINE	10062	24	119
1348 1373	30+30 15	LO PINE	1141 1142	16 14	PINE	1257 1258	13 6+5	PINE GUM	10063 10064	25+13 24+9	119 119
1398	10	PINE	1143	20	PINE	1259	17	PINE	10064	19	PII
1423	12	PINE	1144	6	GUM	1260	14	PINE	10077	14+6+4+3	119
1448 1473	9 10	PINE PINE	1145 1146	6 9+7+6+3+2	GUM POPLAR	1268 1269	10 6	PINE GUM	10078 10079	13+6 10	119 119
1498	15	PINE	1147	18	PINE	1270	6	PINE	10079	11	PII
1523	15	PINE	1148	7	PINE	1271 1272	14+9 10	PINE PINE	10081	12+9	119
1548 1573	12 15+11	PINE PINE	1149 1150	6 6	GUM GUM	1273	9	PINE	10082 10083	15 8	119 119
1598	12	PINE	1151	15+14	PINE	1274	10	PINE	10084	14	IIQ
1623	10	PINE	1152 1153	14 8	PINE LO	1275 1276	8 19	PINE PINE	10085	9+9+5	119
1648 1673	13 11	PINE PINE	1153	19	PINE	1277	14	PINE	10086 10087	8 10	119 119
1699	8	PINE	1155	6	PINE	1278	13+3+3	PINE	10088	6	PII
1724	11 15	PINE	1156 1157	14 15	PINE	1279 1280	14 12+6+4	PINE PINE	10089 10090	13+6+5	119
1749 1774	15 15	PINE PINE	1157	7	PINE	1281	12	PINE	10090	10 12+5	119 119
1799	23	PINE	1159	7	PINE	1282 1283	12 g	PINE PINE	10092	6	IIA
1824 1849	11 12	PINE PINE	1160 1161	21 6	PINE PINE	1283	8 6	PINE	10093 10094	11+5 13	119 119
1849 1874	12	PINE	1162	12	PINE	1285	16	PINE	10094	6	PII
1899	23	PINE	1163	10	PINE	1286 1296	11 16	PINE PINE	10096	13	119
1924 1949	22 24	LO CEDAR	1164 1165	18+10 7	PINE PINE	1296	7	PINE	10097 10098	13 7	119 119
1949 1974	24 29	LO	1166	15	PINE	1298	11	PINE	10098	11+11+4	PII
1999	24	GUM	1167 1168	9 15	PINE PINE	1299	7 6	PINE PINE	10100	11+10	119
2024	30 13	GUM PINE	1168	6	LO	1301	14	PINE	10101	<u>6</u> 9	119 119
2074	8	PINE	1170	10	PINE	1302	8+4	PINE	10103	15	PII
2099	6	PINE	1171 1172	14 6	PINE	5001 5002	12 12	PINE PINE	10104	14+6	119
2124 2149	7 16	PINE PINE	1172	12	PINE	5003	10	PINE	10105 10106	6 12	119 119
2174	12+7+5+5	PINE	1174	11	PINE	5004 5005	8 27	OAK PINE	10107	12	119
2199	29 39	PINE	1175 1176	<u>8</u> 7	PINE PINE	5005	8	GUM	10108 10109	6 8	GU
2224 2250	39 10+9	PINE PINE	1177	8	PINE	5007	10+7	OAK	10109	8 13	119 119
2275	1	PINE	1178	12	PINE	5008 5009	27 8	PINE PINE	10111	6	PII PII
2300 2325	10 10+4	PINE PINE	1179 1180	19 8	PINE PINE	5010	22	PINE	10112 10113	3+3 19	119 119
350	10+4 12	PINE	1181	9	PINE	5011	9	PINE	10113	8	PII
375	6	PINE	1182 1183	12 14+10	PINE PINE	5013 5014	8 12	PINE PINE	10115	6	PII
2400	10 7	PINE PINE	1183	14+10	PINE	5016	16	PINE	10116 10117	12 8	119 119
2425	,				<u> </u>						,:1

10119	9	PINE	10291	6
10120	12+3	PINE	10325	10
10121 10122	6 9	PINE PINE	10326	9+8 20
.0123	15	PINE	10327	13
10124	6	PINE	10329	9
)125	15	PINE	10344	9
0126	6	PINE	10345	14
10127	13	PINE	10346	9
10128	6	PINE	10347	14
10129	17.6	PINE	10348	11
10130	17+6 6	PINE	10349	12 8
0131	6	GUM	10350	<u>0</u> 16
10133	6	TUPELO	10352	19
10134	9	PINE	10353	22
10135	8+3	PINE	10354	19
10136	12	PINE	10355	9
10137	10	PINE	10356	19
10138	15	PINE	10357	7+5
10139	14	PINE	10358	6
10140 10141	12 7	PINE PINE	10359 10360	11 14
10141	10+10+6	PINE	10360	10
10143	13	PINE	10362	10+10
10144	19	PINE	10363	6
10145	12	PINE	10364	8
10146	9+5	PINE	10365	13
10147	9	PINE	10366	16
10148	11	PINE	10367	5+5
10149	13	PINE	10368	10
10150	7	PINE	10369	20
10151	16	PINE	10370	6
10152	15	PINE	10371	19
10153 10154	17+5 21	PINE PINE	10372	14 17
10154	9	GUM	10398 10399	1/_
10155	6	GUM	10399	/
10161	17	PINE	10400	6
10162	17	PINE	10402	8+8
10163	13+13	PINE	10403	16
10164	7	PINE	10420	18
10165	15	PINE	10421	9
10166	7	MAPLE	10422	17
10167	8	GUM	10423	17
10168	6	GUM	10424	16
10169 10170	13+13 7	PINE PINE	10425	12 16
10170	8	PINE	10426 10427	8
10172	17	PINE	10427	19
10173	13+12+9+4	PINE	10429	21
10174	17	PINE	10430	20
10175	9	GUM	10431	11+10
10176	6	GUM	10432	17
10177	7	GUM	10433	10
10178	14+6+5	PINE	10434	16
10179	9+8+3	PINE	10435	14
10180 10181	14 15	PINE PINE	10436 10437	11 19
10182	10	PINE	10437	11
10183	8	PINE	10439	20
10184	14	PINE	10445	10
10185	16	PINE	10446	17
10186	11	PINE	10447	14
10187	17	PINE	10448	17
10188	14	PINE	10449	9+7
10189	6	GUM	10450	12
10190	18	PINE	10451	6
10191 10192	6 15	PINE PINE	10452	10
10192	15	PINE	10453 10454	19 12
10193	8	GUM	10454	12
10195	16	PINE	10459	13
10196	17+5	PINE	10460	10
10227	8	GUM	10466	13
10228	11	PINE	10467	16+1
10229	20	PINE	10474	6
10230	15	PINE	10475	9
10231	8	GUM	10476	10+6
10232	18	PINE	10477	13
10233	14 5+5	PINE	10479	8
10234 10235	5+5 8	GUM PINE	10480 10481	19 8+4
10236	11+6+6	PINE	10481	<u>8+4</u> 8
10237	8	PINE	10487	9
10238	13	PINE	10487	<u></u>
10239	14+7	PINE	10489	9
10240	8	PINE	10490	11+9
10241	13	PINE	10491	14
10242	6	GUM	10492	14
10271	9	PINE	10493	6
10272	9	PINE	10494	8
10273	17 5+5	PINE	10495	8
10274 10275	5+5 13	GUM PINE	10496 10497	23 18
10275	11	PINE	10497	18 8
10276	8	GUM	10498	<u>8</u> 7
10277	8	GUM	10503	/ 17+5
10279	6	GUM	10505	15
10280	7+3	WO	10506	7
10281	10	wo	10507	19
	8	GUM	10508	17
10282	18	PINE	10509	7
10283	5+4	WO	10515	11
10283 10284		~	10516	19
10283 10284 10285	6	GUM	4051-	
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10544	12	PINE	11537	6	
10545	7	PINE	11538	8+6	
10553	12	wo	11539	10+9+6	
10554	27	PINE	11540	11	+
10555	9 13	PINE PINE	11541 11542	<u>8</u> 8+6	
10557	7	PINE	11543	7	
10558	11	PINE	11544	6	
10559	8	GUM	11545	10	
10560	12 12	PINE	11546	8	1
10562	7	WO	11547 11548	11 12	+
10563	10	PINE	11549	10+10	
10571	11	PINE	11550	16	
10572	13	PINE	11875	19	
10573	6	PINE	11876	19	<u> </u>
10574	<u>11</u> 6	PINE	12153	34	\vdash
10576	13	GUM PINE	12154 12155	<u>8</u> 7	-
10577	14	PINE	12156	19	1
10578	12	PINE	12157	8	
10579	8	GUM	12158	12	
10580	8 10	PINE PINE	12159	8	+
10582	17	PINE	12160 12161	9+8 18	+
10583	5+3	WO	12162	15	
10584	13+4	wo	12163	17	
10585	7	PINE	12164	11+4	
10586	13+4	PINE	12165	16	<u> </u>
10587	13+6+4 6	PINE	12166 12167	9 16	OR
10589	8	PINE	12167	4+3	
10597	7	GUM	12169	7	
10598	13	PINE	12170	21	\Box
10599	8	PINE	12171	28+8	1
10600	<u>8</u> 7	PINE PINE	12175	16 12	+
10602	8	PINE	12176 12177	12 25	+
10603	12	PINE	12177	23	
10604	8	PINE	12179	15	
10605	6	PINE	12180	12	<u> </u>
10606 10607	12 7	PINE	12181	10	
10608	19	PINE	12183 12184	18 17	
10609	13	PINE	12184	15	
10610	13	PINE	12186	12	
10611	11	PINE	12187	8	
10612 10613	9 8	PINE PINE	12188	19	_
10614		PINE	12308 12314	9 16+14	+
10615	8	LO	12314	9+5	
10616	14	PINE	12695	40	
10617	9	LO	12707	8	
10618 10619	14 9	PINE PINE	12708	13+6	-
10620	8	PINE	12709 12710	16 13	
10621	6	PINE	12710	3	OR
10622	6	GUM	12713	3	OR
10623	8	PINE	12714	18	
10624 10625	<u>6</u> 9	PINE	12715	18	-
10626	9	PINE	12720	19	
10627	8	PINE	12721 12722	19 17	+
10628	17	PINE	12723	17	
10629	7	PINE	12724	17	
10630 10631	12 6	PINE PINE	12725	19	-
10644	11	PINE	12726	19	+
10645	8+5	PINE	12727 12728	21 21	
10646	6	PINE	12729	18	†
10647	10	PINE	12730	11	
10648	14 6	PINE PINE	12731	15	-
10649	<u> </u>	PINE	12732	19	+
10651	8	PINE	12733	18 18	+
10652	11	PINE	12734 12735	18 19	+
10718	31	LO	12736	18	
10881	<u>6</u> 6	PINE	12737	16	_
10882 10883	<u> </u>	PINE PINE	12738	19	-
10884	7	PINE	12739 12740	17 17	+
10937	6+4+4	wo	12740	17	+
10938	88	WO	12742	20	
10939	7 9	GUM	12743	30	
10940	9	WO GUM	12744	20+12	_
10941	11	PINE	12745	19	+
10943	7	TUPELO	12746 12747	23 20	+
10944	11+5	WO	12748	24	
10945 11372	7 	TUPELO LO	12749	18+17	
11372	29 26	LO	12750	25	+
11374	21+17+17	LO	12751	25 10	+-
11375	21	LO	12752 12753	19 26	1
11516	17	LO	12754	24	+-
11517	16	LO	12755	19	
11518	10 20	GUM WO	12756	5+4+4+3	N
11519 11520	20 17	wo	12757	4+4+3+3	\perp
11521	6	BIRCH	12758	5+5+3	-
11522	10	WO	12759	3+3	+
	13	wo	12760 12761	24 6	N
11523	7	wo	12762	6	I N
11524			12763		T N
11524 11525	13	WO	[12/03	5+3	¹v
11524 11525 11526	6+6	wo	12764	5+3	N
11524 11525 11526 11527		WO WO	12764 12765	5+3 5+4	1 .
11524 11525 11526	6+6 7	wo	12764 12765 12766	5+3 5+4 4+2	N N
11524 11525 11526 11527 11528 11534 11535	6+6 7 9	WO WO MAPLE	12764 12765 12766 12767	5+3 5+4 4+2 6+5	N
11524 11525 11526 11527 11528 11534	6+6 7 9 6	WO WO MAPLE BIRCH	12764 12765 12766	5+3 5+4 4+2	

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NE 12898 5+3 WO 13902 6 WO 13432 12 Guln 12890 20 PINE 12890 20 PINE 12890 10 WO 13092 28 LO 13434 20 WO 13092 13 WO 13435 12 FINE 12891 13 FINE 12892 10 13435 12-12 Guln 13498 13-12 Guln 13498 Guln 13498 13-12 Guln 13498 Guln	-		6+5			6+5				
SE 12875 20		12858	5+3	wo	13091	6	wo	13432	11	GUM
SE 13850				PINE						
No. 12861 15			10	wo			LO			
Section 1886 17 - 6		12861		PINE		1	LO	13435		GUM
Section Sect		12862	7+6			20	GUM			
AM DO DE 12865 6 WO 13100 21 LO 131443 6-4 GUM DE 12865 12 PINF 13100 21 LO 131444 7 GUM DE 12865 11 8 WO 13103 33 LO 13145 9 GUM DE 1287 11 1 GUM DE 13125 22 LO 13445 9 GUM DE 1287 15 PINF 13125 22 LO 13445 9 GUM DE 1287 15 PINF 13125 22 LO 13445 9 GUM DE 1287 16 PINF 13125 22 LO 13445 9 GUM DE 1287 16 PINF 13125 12 PINF 14 LO 13445 9 GUM DE 1287 16 PINF 13125 17 LO 13445 9 GUM DE 1287 16 PINF 13125 17 LO 13445 9 GUM DE 1287 16 PINF 13125 17 LO 13445 9 GUM DE 1287 16 PINF 13125 17 LO 13445 9 GUM DE 1287 16 PINF 13125 17 LO 13445 9 GUM DE 1287 16 PINF 13125 17 LO 13445 9 GUM DE 1287 16 PINF 13125 17 LO 13445 9 GUM DE 1287 16 PINF 13125 17 LO 13445 9 GUM DE 1287 16 PINF 13125 17 LO 13445 11 WO DE 1287 16 PINF 13125 17 LO 13445 17 PINF 13125 17 LO 13445 17 PINF 13125 18 PINF 13125 18 LO 13445 17 PINF 13125 18 PINF 1312		12863	17	PINE	13100	10+7	GUM	13442	22	PINE
12866	CAN	12864	6	wo	13101	21	LO	13443	6+4	GUM
12667 111 GUM 13126 25	0	12865	12	PINE	13102	14	LO	13444	7	GUM
	0	12866	11+8	wo	13103	33	LO	13445	9	GUM
1286	0	12867	11	GUM	13126	2 5	wo	13446	10	wo
12870 15-44 PINE 13129 24	0	12868	7	TUPELO	13127	21	LO	13447	9	GUM
12871 6	0	12869	25+10	PINE	13128	19	LO	13448	8	GUM
MEMTAL 12873 20	0	12870	16+4	PINE	13129	24	LO	13449	9	wo
March 12873 20	0	12871	6	pine	13136	17	LO	13450	11	wo
12874 6	MENTAL	12872	6	TUPELO	13137	22	LO	13451	20	PINE
12875 6	1ENTAL	12873	20	PINE	13138	18	LO	13452	11	wo
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NE		12874		TUPELO	13140	1 10				
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No. 12898 9 GUM 13179 25 LO 13499 11 PINE 12890 6 WO 13180 24 LO 13500 9+6 PINE 13290 12 GUM 13196 24 LO 13500 17 PINE 13291 12 GUM 13196 24 LO 13500 17 PINE 13291 13+5 WO 13216 10+6 WO 13504 11 TUPELO 13217 15 PINE 13218 18 LO 13505 6 PINE 12918 8+5 LO 13218 18 LO 13506 17 PINE 13219 9 TUPELO 13219 8 GUM 13502 10 PINE 13219 9 TUPELO 13219 8 GUM 13524 4+9 PINE 13210 16 LO 13524 8 GUM 13524 14+9 PINE 13220 16 LO 13526 14 PINE 13220 16 LO 13526 14 PINE 13221 11 LO 13525 14 PINE 13222 15 LO 13526 16 PINE 13223 8 LO 13526 16 PINE 13224 7+7 LO 13525 11 PINE 13224 7+7 LO 13526 11 LO 13526 11 LO 13297 PINE 13227 22+27 LO 13227 24+20 LO 13529 6 WO 13520 11 LO 13523 14 PINE 13222 12 PINE 13222 25 WO 13523 13 PINE 13223 14 WO 13240 14 WO 13533 13 PINE 13220 15 LO 13523 14 WO 13533 13 PINE 13220 15 LO 13523 14 WO 13533 13 PINE 13223 14 WO 13535 13+10 WO 13230 18 PINE 13231 14 WO 13555 13 WO 13008 8+6 WO 13234 15 LO 13555 12 GUM 13555 12 GUM 13009 9+9 LO 13234 15 LO 13555 12 GUM 13009 9+9 LO 13234 15 LO 13555 12 GUM 13555 12 GUM 13009 9+9 LO 13230 13 LO 13230 13 WO 13231 14 WO 13555 12 GUM 13009 9+9 LO 13233 T1 LO 13555 T1 WO T1 T1 T1 T1 T1 T1 T1 T	VE VE VE VE	12875 12876 12877 12892 12893 12894	8 6 6 12+11 9	WO WO LO WO	13149 13150 13158 13159	34 22 33 23 29+25+23+21	LAO WO LO LO	13489 13490 13491 13493 13494 13495	15 14 14+14+12 8 8	PINE PINE PINE GUM PINE
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12917	NE N	12875 12876 12877 12892 12893 12894 12895 12896 12897 12898 12899 12900 12901	8 6 6 12+11 9 12 10 10 9 12 6	WO WO LO WO WO GUM GUM GUM WO GUM GUM	13149 13150 13158 13159 13167 13169 13178 13179 13180 13196	34 22 33 23 29+25+23+21 9 25 19+18+16+14 25 24 24 23	LAO WO LO	13489 13490 13491 13493 13494 13495 13496 13497 13498 13499 13500 13501 13502	15 14 14+14+12 8 8 8 10 18 17+8 11 9+6 17	PINE PINE GUM PINE PINE PINE PINE PINE PINE PINE PINE
12918	NE N	12875 12876 12877 12892 12893 12894 12895 12896 12897 12898 12899 12900 12901 12915	8 6 6 12+11 9 12 10 10 9 12 6 12 13+5	WO WO LO WO WO GUM WO GUM GUM GUM WO GUM WO GUM	13149 13150 13158 13159 13167 13169 13178 13179 13180 13196 13197 13198	34 22 33 23 29+25+23+21 9 25 19+18+16+14 25 24 24 24 23 29+23+22+19	LAO WO LO	13489 13490 13491 13493 13494 13495 13496 13497 13498 13499 13500 13501 13502 13503	15 14 14+14+12 8 8 10 18 17+8 11 9+6 17	PINE PINE GUM PINE PINE PINE PINE PINE PINE PINE PINE
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NE	NE N	12875 12876 12877 12892 12893 12894 12895 12896 12897 12898 12899 12900 12901 12915 12916 12917	8 6 6 12+11 9 12 10 10 9 12 6 12 13+5 8	WO WO LO WO WO GUM GUM GUM WO GUM WO GUM WO FINE LO	13149 13150 13158 13159 13167 13169 13178 13179 13180 13196 13197 13198 13216 13217	34 22 33 23 29+25+23+21 9 25 19+18+16+14 25 24 24 23 29+23+22+19 10+6 21 18	LAO WO LO	13489 13490 13491 13493 13494 13495 13496 13497 13498 13499 13500 13501 13502 13503 13504 13505 13506	15 14 14+14+12 8 8 8 10 18 17+8 11 9+6 17 10 12 11 6 17	PINE PINE GUM PINE PINE PINE PINE PINE PINE PINE PINE
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NE	NE N	12875 12876 12877 12892 12893 12894 12895 12896 12897 12898 12899 12900 12901 12915 12916 12917 12918 12919	8 6 6 12+11 9 12 10 10 9 12 6 12 13+5 8 16 8+5 9	WO WO LO WO WO GUM WO GUM WO GUM WO FINE LO TUPELO	13149 13150 13158 13159 13167 13169 13178 13179 13180 13196 13197 13198 13216 13217 13218 13219	34 22 33 23 29+25+23+21 9 25 19+18+16+14 25 24 24 23 29+23+22+19 10+6 21 18 8 16	LAO WO LO CO GUM LO LO LO LO LO LO LO LO	13489 13490 13491 13493 13494 13495 13496 13497 13498 13499 13500 13501 13502 13503 13504 13505 13506 13523 13524	15 14 14+14+12 8 8 8 10 18 17+8 11 9+6 17 10 12 11 6 17 14+9 8	PINE PINE GUM PINE PINE PINE PINE PINE PINE PINE PINE
NE 12924 10	NE N	12875 12876 12877 12892 12893 12894 12895 12896 12897 12898 12899 12900 12901 12915 12916 12917 12918 12919 12920 12921	8 6 6 12+11 9 12 10 10 9 12 6 12 13+5 8 16 8+5 9 7	WO WO LO WO WO GUM WO GUM WO GUM WO FINE LO TUPELO TUPELO WO	13149 13150 13158 13159 13167 13169 13178 13179 13180 13196 13197 13198 13216 13217 13218 13219 13220 13221	34 22 33 23 29+25+23+21 9 25 19+18+16+14 25 24 24 23 29+23+22+19 10+6 21 18 8 16 11	LAO WO LO	13489 13490 13491 13493 13494 13495 13496 13497 13498 13499 13500 13501 13502 13503 13504 13505 13506 13523 13524 13525	15 14 14+14+12 8 8 8 10 18 17+8 11 9+6 17 10 12 11 6 17 14+9 8 14	PINE PINE GUM PINE PINE PINE PINE PINE PINE PINE PINE
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NE	NE N	12875 12876 12877 12892 12893 12894 12895 12896 12897 12898 12899 12900 12901 12915 12916 12917 12918 12919 12920 12921 12922 12923	8 6 6 12+11 9 12 10 10 9 12 6 12 13+5 8 16 8+5 9 7 6	WO WO LO WO WO GUM WO GUM WO GUM WO GUM TUPELO TUPELO WO PINE LO TUPELO TUPELO WO PINE LO	13149 13150 13158 13159 13167 13169 13178 13179 13180 13196 13197 13198 13216 13217 13218 13219 13220 13221 13222	34 22 33 23 29+25+23+21 9 25 19+18+16+14 25 24 24 23 29+23+22+19 10+6 21 18 8 16 11 15 8	LAO WO LO	13489 13490 13491 13493 13494 13495 13496 13497 13498 13499 13500 13501 13502 13503 13504 13505 13506 13523 13524 13525 13526 13527	15 14 14+14+12 8 8 8 10 18 17+8 11 9+6 17 10 12 11 6 17 14+9 8 14 16 11	PINE PINE GUM PINE PINE PINE PINE PINE PINE PINE PINE
NE 12970 9	NE	12875 12876 12877 12892 12893 12894 12895 12896 12897 12898 12899 12900 12901 12915 12916 12917 12918 12919 12920 12921 12922 12923 12924	8 6 6 12+11 9 12 10 10 9 12 6 12 13+5 8 16 8+5 9 7 6 14	WO WO LO WO WO WO GUM WO GUM WO GUM WO GUM WO FINE LO TUPELO TUPELO WO PINE LO WO PINE	13149 13150 13158 13159 13167 13169 13178 13179 13180 13196 13197 13198 13216 13217 13218 13219 13220 13221 13222 13223 13224	34 22 33 23 29+25+23+21 9 25 19+18+16+14 25 24 24 23 29+23+22+19 10+6 21 18 8 16 11 15 8 7+7	LAO WO LO	13489 13490 13491 13493 13494 13495 13496 13497 13498 13499 13500 13501 13502 13503 13504 13505 13506 13523 13524 13525 13526 13527 13528	15 14 14+14+12 8 8 8 10 18 17+8 11 9+6 17 10 12 11 6 17 14+9 8 14 16 11 11	PINE PINE GUM PINE PINE PINE PINE PINE PINE PINE PINE
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12972 15	E	12875 12876 12877 12892 12893 12894 12895 12896 12897 12898 12899 12900 12901 12915 12916 12917 12918 12920 12921 12922 12923 12924 12955 12969	8 6 6 12+11 9 12 10 10 9 12 6 12 13+5 8 16 8+5 9 7 6 14 16 10 21	WO WO LO WO WO GUM WO GUM WO GUM WO GUM WO FINE LO TUPELO TUPELO WO PINE LO WO PINE LO TUPELO TUPELO WO PINE LO TUPELO WO PINE LO	13149 13150 13158 13159 13167 13169 13178 13179 13180 13196 13197 13198 13216 13217 13218 13219 13220 13221 13222 13223 13224 13225 13226	34 22 33 23 29+25+23+21 9 25 19+18+16+14 25 24 24 23 29+23+22+19 10+6 21 18 8 16 11 15 8 7+7 25 6	LAO WO LO	13489 13490 13491 13493 13494 13495 13496 13497 13498 13499 13500 13501 13502 13503 13504 13505 13506 13523 13524 13525 13526 13527 13528 13529 13530	15 14 14+14+12 8 8 8 8 10 18 17+8 11 9+6 17 10 12 11 6 17 14+9 8 14 16 11 11 6 9+8	PINE PINE GUM PINE PINE PINE PINE PINE PINE PINE PINE
SE 12973 9	E	12875 12876 12877 12892 12893 12894 12895 12896 12897 12898 12899 12900 12901 12915 12916 12917 12918 12919 12920 12921 12922 12923 12924 12955 12969 12970	8 6 6 12+11 9 12 10 10 9 12 6 12 13+5 8 16 8+5 9 7 6 14 16 10 21 9	WO WO LO WO WO GUM WO GUM WO GUM WO GUM WO PINE LO TUPELO TUPELO WO PINE LO PINE LO PINE LO LO LO	13149 13150 13158 13159 13167 13169 13178 13179 13180 13196 13197 13198 13216 13217 13218 13219 13220 13221 13222 13223 13224 13225 13226 13227	34 22 33 23 29+25+23+21 9 25 19+18+16+14 25 24 24 23 29+23+22+19 10+6 21 18 8 16 11 15 8 7+7 25 6 24+20	LAO WO LO	13489 13490 13491 13493 13494 13495 13496 13497 13498 13500 13501 13502 13503 13504 13505 13506 13523 13524 13525 13526 13527 13528 13529 13530 13530	15 14 14+14+12 8 8 8 10 18 17+8 11 9+6 17 10 12 11 6 17 14+9 8 14 16 11 11 6 9+8 9	PINE PINE GUM PINE PINE PINE PINE PINE PINE PINE PINE
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SE 13004 6+5 WO 13233 25+19 LO 13537 9+5 MAPLE 13005 6 WO 13234 15 LO 13550 14 WO 13235 20 LO 13551 13 WO 13236 29+18 LO 13552 9 WO 13236 29+18 LO 13553 13 WO 13237 15 LO 13553 13 WO 13238 23 LO 13554 10 GUM 13010 10+6+5 WO 13238 23 LO 13555 12 GUM 13011 7 WO 13240 11 LO 13557 12 GUM 13012 10 WO 13241 28 LO 13557 12 PINE 13013 7 WO 13242 25 LO 13558 11+6 LO 13559 12 PINE 13014 6 WO 13251 34 LO 13550 12 PINE 13016 8 LO 13259 12 LO 13561 13 PINE 13016 8 LO 13260 14 LO 13562 12 PINE 13018 8+8 LO 13261 20+6 GUM 13564 10 PINE 13564 10 PINE 13564 10 PINE 13019 9 LO 13263 16 WO 13564 10 PINE 13564 10 P		12875 12876 12877 12892 12893 12894 12895 12896 12897 12898 12899 12900 12901 12915 12916 12917 12918 12920 12921 12922 12923 12924 12955 12969 12970 12971	8 6 6 12+11 9 12 10 10 9 12 6 12 13+5 8 16 8+5 9 7 6 14 16 10 21 9	WO WO LO WO WO GUM WO GUM WO GUM WO GUM WO PINE LO TUPELO TUPELO WO PINE LO PINE LO PINE LO PINE LO LO PINE LO LO LO LO PINE	13149 13150 13158 13159 13167 13169 13178 13179 13180 13196 13197 13198 13216 13217 13218 13219 13220 13221 13222 13223 13224 13225 13226 13227 13228 13229 13228	34 22 33 23 29+25+23+21 9 25 19+18+16+14 25 24 24 23 29+23+22+19 10+6 21 18 8 16 11 15 8 7+7 25 6 24+20 26+20+20 30 18	LAO WO LO	13489 13490 13491 13493 13494 13495 13496 13497 13498 13499 13500 13501 13502 13503 13504 13505 13506 13523 13524 13525 13526 13527 13528 13529 13530 13531 13532	15 14 14+14+12 8 8 8 8 10 18 17+8 11 9+6 17 10 12 11 6 17 14+9 8 14 16 11 11 6 9+8 9 6 13 18	PINE PINE GUM PINE PINE PINE PINE PINE PINE PINE PINE
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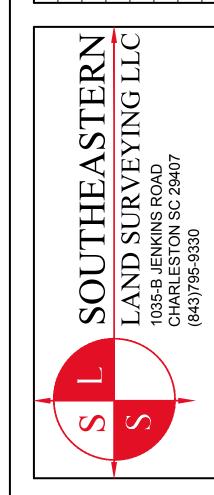
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MAGNOLIA MAGNOLIA PEAR

13029	5+4	LO	13268	20
13030	6 13+8	LO	13269	12 23+21+2
13031 13032	5+4	LO LO	13270 13271	17
13033	5+3	LO	13272	17+15
13034	6	LO	13273	14
13035	7	LO	13274	21
13036 13037	10 10	WO WO	13275 13276	18+18 23
13038	6+5	LO	13277	12
13039	14	LO	13278	13
13043	10	WO	13279	37
13044	6	W0	13285	12
13045 13046	6 8	HICKORY WO	13286 13287	24 22
13047	14	WO	13337	8
13048	8	GUM	13338	11
13049	8	LO	13339	6
13050 13051	11 7+7	GUM GUM	13340 13341	8+6 8
13052	7	WO	13342	8+5
13053	6	wo	13343	9+6
13054	10	GUM	13344	7
13055 13056	6 6	LO LO	13356 13357	5+4 6
13057	9	LO	13403	7
13058	7	WO	13404	7
13059	7+6	LO	13405	12
13060	6	WO	13406	7
13061 13062	9	LO LO	13407 13408	10 22
13063	8+7	WO	13410	14
13081	6	LO	13411	7
13082	7	LO	13412	19
13083	8 7.5	LO	13413	24
13084 13085	7+5 6	WO LO	13414 13415	9 5+2+2
13086	8	WO	13416	8
13087	7	wo	13428	18
13088	3+3	WO	13429	21
13089 13090	8 6+5	WO LO	13430 13431	18 17
13091	6	WO	13431	11
13092	13	WO	13433	12
13097	28	LO	13434	20
13098	29	LO	13435	21
13099 13100	20 10+7	GUM GUM	13436 13442	19+12+ 22
13101	21	LO	13443	6+4
13102	14	LO	13444	7
13103	33	LO	13445	9
13126 13127	25 21	WO LO	13446 13447	10 9
13128	19	LO	13448	8
13129	24	LO	13449	9
13136	17	LO	13450	11
13137 13138	22 18	LO LO	13451 13452	20 11
13139	20	LO	13488	15
13140	16	wo	13489	13
13141	34	LAO	13490	15
13149	22	WO	13491	14
13150 13158	33 23	LO LO	13493 13494	14+14+1 8
		LO	13495	8
13167	9	LO	13496	10
13169	25	LO	13497	18
13178 13179	19+18+16+14 25	LO LO	13498 13499	17+8 11
13180	24	LO	13500	9+6
13196	24	LO	13501	17
13197	23	GUM	13502	10
13198 13216	29+23+22+19 10+6	LO WO	13503 13504	12 11
13216	21	LO	13504	6
13218	18	LO	13506	17
13219	8	GUM	13523	14+9
13220 13221	16 11	LO LO	13524 13525	8 14
13221	15	LO	13525	16
13223	8	LO	13527	11
13224	7+7	LO	13528	11
13225 13226	25 6	WO GUM	13529 13530	6 9+8
13227	24+20	LO	13530	9+8
13228	26+20+20	LO	13532	6
13229	30	LO	13533	13
13230 13231	18 14	WO WO	13534 13535	18 13+10
13231	24	LO	13536	13+10
13233	25+19	LO	13537	9+5
13234	15	LO	13550	14
13235 13236	20 29+18	LO LO	13551 13552	13 9
13236	29+18 15	LO	13552	13
13238	23	LO	13554	10
13239	17	GUM	13555	12
13240	11	LO LO	13556 13557	11 12
127/1	י יס י	LU	13557	11+6
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13242 13251 13252 13259	25 34 39+20+18+15 12	LO LO	13559 13560 13561	12 12 13
13242 13251 13252 13259 13260	25 34 39+20+18+15 12 14	LO LO LO	13559 13560 13561 13562	12 12 13 12
13242 13251 13252 13259	25 34 39+20+18+15 12 14 20+6	LO LO	13559 13560 13561	12 12 13
13242 13251 13252 13259 13260 13261	25 34 39+20+18+15 12 14 20+6	LO LO LO LO	13559 13560 13561 13562 13563 13564 13565	12 12 13 12 6
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13242 13251 13252 13259 13260 13261 13263 13264 13265	25 34 39+20+18+15 12 14 20+6 16 10	LO LO LO GUM WO LO	13559 13560 13561 13562 13563 13564 13565 13566	12 12 13 12 6 10 10

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22+2-21-21							13865
177 WO 13986 8 WO 1 1 1 1 1 1 1 1 1	_						13887
17-15	2	23+21+21	LO	13583	9	wo	13888
17-15	1	17	wo	13584	8	wo	13895
1 2 CLIM 13090 18	2	17+15	LO	13585	8+7	GUM	13896
2 21 GLM 13097 18 PNME 1 13098 18 PNME 1 13098 12 PNME 1 13098 12 PNME 1 13090 12 PNME 1 13090 12 PNME 1 13090 13 PNME 1 13090	3	14		13586	8	PINF	13897
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37	_	12	WO	13600	15	PINE	13901
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12		37	wo	13603	17	PINE	13903
2	5	12	WO		18		13904
2							13905
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1	7	22	WO	13624	12	GUM	13906
1	7	8	WO	13625	18	WO	13907
1	8	11	wo	13626	7	GUM	13908
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1 7 WO 136373 15 PINE 1 12 12 GUM 13638 14 PINE 1 13638 15 PINE 1 13638 19 MARPLE 1 13640 12 PINE 1 13640 12 PINE 1 13641 16 PINE 1 13642 6 WO 1 13643 9 TUPELO 1 13644 19 PINE 1 13645 16 PINE 1 13645 16 PINE 1 13645 16 PINE 1 13645 16 PINE 1 13665 16 PINE 1 13666 8 WO 1 13667 7 WO 1 13669 9 PWO 1 13669 9 PWO 1 13669 9 PWO 1 13669 19 PWO 1 13670 16 PINE 1 1 1 PINE 1 1 1 PINE 1 1 PI	-					1	
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B 17 PINE 13864 6+4 MAPLE 1	-						14918
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584	8	WO	13895	11	PINE
585	8+7	GUM	13896	12	PINE
586	8	PINE	13897	8	PINE
587	18	PINE	13898	19	PINE
598	18	PINE	13899	8	PINE
599	12	PINE	13900	17	PINE
600	15	PINE	13901	9	PINE
601	10	PINE	13902	6+3	MAPLE
603	17	PINE	13903	7	PINE
604	18	PINE	13904	13	PINE
623 624	10 12	GUM GUM	13905 13906	7 16	GUM PINE
625	18	WO	13907	16	PINE
626	7	GUM	13908	14	PINE
627	16	PINE	13909	6+5	MAPLE
628	11	GUM	13910	9	PINE
629	12	GUM	13911	8	PINE
630	16	PINE	13912	15	PINE
631	9	PINE	13913	12+9	PINE
632	14 18	MAPLE PINE	13914 13915	13 11	PINE PINE
634	19	PINE	13916	12	PINE
635	10+8	PINE	13917	9	GUM
637	15	PINE	13918	20	PINE
638	14	PINE	13919	13	PINE
639	19	MAPLE	13920	17	PINE
640	12	PINE	13921	14	PINE
641 642	16 6	PI NE WO	13922 13950	13 14	PINE PINE
643	9	TUPELO	13951	18	PINE
644	19	PINE	13952	11	PINE
645	21	PINE	13953	15	PINE
665	16	PINE	13954	13	PINE
666	8	WO	13955	18	PINE
667	7	WO	13956	9	PINE
8668	9	WO WO	14021	19	PINE
669 670	9 16	WO PINE	14022 14023	12 18	PINE PINE
671	11	PINE	14023	10	GUM
672	13	PINE	14025	21	PINE
673	14	PINE	14026	18	PINE
674	13	PINE	14027	15	PINE
675	10+5	GUM	14028	17+12	PINE
676	13	PINE	14029	10+3	GUM
677 678	10 13	MAPLE PINE	14031 14032	26 23+9+3	PINE PINE
679	19+7	PINE	14032	17	LO
712	18	PINE	14034	10	WO
3774	16	PINE	14035	9+6	LO
775	16	PINE	14036	10	WO
3776	11	PINE	14037	6	WO
777	9	WO	14038	18	LO
778 779	11 9	PINE WO	14047 14048	11 9	wo wo
780	20	PINE	14049	8	wo
781	6	PINE	14050	12	GUM
782	8	GUM	14052	13	GUM
783	16+13	PINE	14190	21	GUM
784	8	GUM	14191	17+14	GUM
785 786	23 8	PINE GUM	14192 14193	9 9+8	GUM
787	6	GUM	14193	9	GUM GUM
798	11	PINE	14195	9+6	GUM
799	19	PINE	14196	5+4	GUM
800	8	PINE	14197	10	GUM
801	7	WO	14198	6	GUM
802			14199	9	
	17	PINE	14200		GUM
803	10	PINE	1/201	11	TUPELO
803 804 805			14201 14202	11 19	TUPELO GUM
804	10 11	PINE PINE	14201 14202 14283	11	TUPELO
804 805	10 11 7	PINE PINE PINE	14202	11 19 21	TUPELO GUM GUM
8804 8805 8806 8807 8808	10 11 7 17 17 22	PINE PINE PINE PINE PINE PINE	14202 14283 14529 14850	11 19 21 15 17 24	TUPELO GUM GUM GUM CEDAR PINE
8804 8805 8806 8807 8808 8809	10 11 7 17 17 22 6	PINE PINE PINE PINE PINE PINE GUM	14202 14283 14529 14850 14862	11 19 21 15 17 24 24	TUPELO GUM GUM GUM CEDAR PINE
8804 8805 8806 8807 8808 8809	10 11 7 17 17 22 6 7	PINE PINE PINE PINE PINE PINE GUM GUM	14202 14283 14529 14850 14862 14883	11 19 21 15 17 24 24 11	TUPELO GUM GUM GUM CEDAR PINE LO GUM
8804 8805 8806 8807 8808 8809 8810	10 11 7 17 17 22 6	PINE PINE PINE PINE PINE PINE GUM	14202 14283 14529 14850 14862	11 19 21 15 17 24 24	TUPELO GUM GUM GUM CEDAR PINE
3804 3805 3806 3807 3808 3809 3810 3811	10 11 7 17 17 22 6 7 16	PINE PINE PINE PINE PINE PINE GUM GUM PINE	14202 14283 14529 14850 14862 14883 14884	11 19 21 15 17 24 24 11	TUPELO GUM GUM GUM CEDAR PINE LO GUM
3804 3805 3806 3807 3808 3809 3810 3811 3812 3813	10 11 7 17 17 22 6 7 16 13 12 21	PINE PINE PINE PINE PINE PINE GUM GUM PINE PINE PINE	14202 14283 14529 14850 14862 14883 14884 14885 14886 14887	11 19 21 15 17 24 24 11 10 11	TUPELO GUM GUM CEDAR PINE LO GUM PINE PINE PINE
3804 3805 3806 3807 3808 3809 3810 3811 3812 3813 3814	10 11 7 17 17 22 6 7 16 13 12 21	PINE PINE PINE PINE PINE PINE GUM GUM PINE PINE PINE PINE PINE	14202 14283 14529 14850 14862 14883 14884 14885 14886 14887 14888	11 19 21 15 17 24 24 11 10 11 11 11	TUPELO GUM GUM CEDAR PINE LO GUM PINE PINE PINE PINE PINE PINE PINE GUM
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8804 8805 8806 8807 8808 8810 8811 8812 8813 8814 8815 8816	10 11 7 17 17 22 6 7 16 13 12 21 12	PINE PINE PINE PINE PINE PINE GUM GUM PINE PINE PINE PINE PINE PINE	14202 14283 14529 14850 14862 14883 14884 14885 14886 14887 14888 14889	11 19 21 15 17 24 24 11 10 11 11 11 7	TUPELO GUM GUM CEDAR PINE LO GUM PINE PINE PINE PINE PINE PINE PINE GUM PINE
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8804 8805 8806 8808 8809 8810 8811 8812 8813 8814 8815 8816 8828 8829	10 11 7 17 17 22 6 7 16 13 12 21 12 10 12 15+5	PINE PINE PINE PINE PINE PINE GUM GUM PINE PINE PINE PINE PINE PINE PINE PINE	14202 14283 14529 14850 14862 14883 14884 14885 14886 14887 14888 14889 14894 14895 14896	11 19 21 15 17 24 24 11 10 11 11 11 7 12 12 7 33	TUPELO GUM GUM GUM CEDAR PINE LO GUM PINE PINE PINE PINE PINE PINE PINE MAPLE PINE
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8804 8805 8806 8807 8808 8810 8811 8812 8813 8814 8815 8828 8829 8830 8831 8832 8833 8834 8834	10 11 7 17 17 17 22 6 7 16 13 12 21 12 10 12 15+5 18 18 19 7+7 16 9	PINE PINE PINE PINE PINE PINE PINE GUM GUM PINE PINE PINE PINE PINE PINE PINE PINE	14202 14283 14529 14850 14862 14883 14884 14885 14886 14887 14888 14899 14894 14895 14896 14897 14898 14899 14899	11 19 21 15 17 24 24 24 11 10 11 11 7 12 12 7 33 9 9 9 28 6 13	TUPELO GUM GUM GUM CEDAR PINE LO GUM PINE PINE PINE PINE PINE PINE GUM PINE PINE GUM PINE PINE CHERRY MAPLE
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8804 8805 8806 8807 8808 8810 8811 8812 8815 8816 8829 8830 8831 8832 8833 8834 8835 8836 8838	10 11 7 17 17 17 17 22 6 7 16 13 12 21 12 10 12 15+5 18 18 19 7+7 16 9 17 15+13 18 15 12 20	PINE PINE PINE PINE PINE PINE PINE PINE	14202 14283 14529 14850 14862 14883 14884 14885 14886 14887 14888 14899 14896 14897 14898 14899 14900 14901 14902 14903 14904 14905 14905 14906 14907	11 19 21 15 17 24 24 21 11 10 11 11 7 12 12 7 33 9 9 9 28 6 13 8 12 12 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18	TUPELO GUM GUM GUM CEDAR PINE LO GUM PINE PINE PINE PINE PINE GUM PINE PINE MAPLE PINE GUM GUM PINE GUM GUM PINE GUM GUM PINE GUM GUM PINE CHERRY MAPLE PINE GUM GUM PINE CHERRY MAPLE PINE GUM GUM PINE CHERRY MAPLE PINE PECAN GUM PINE
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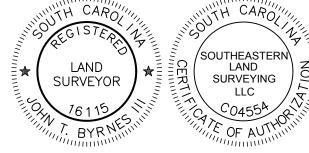
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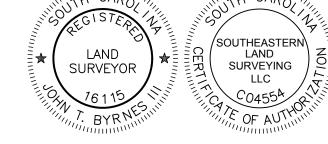


DATE: 09-18-2019 MAS PRB CHECK: SS 19131 JOB: 19131TOPO 6 OF 6 SHEET:

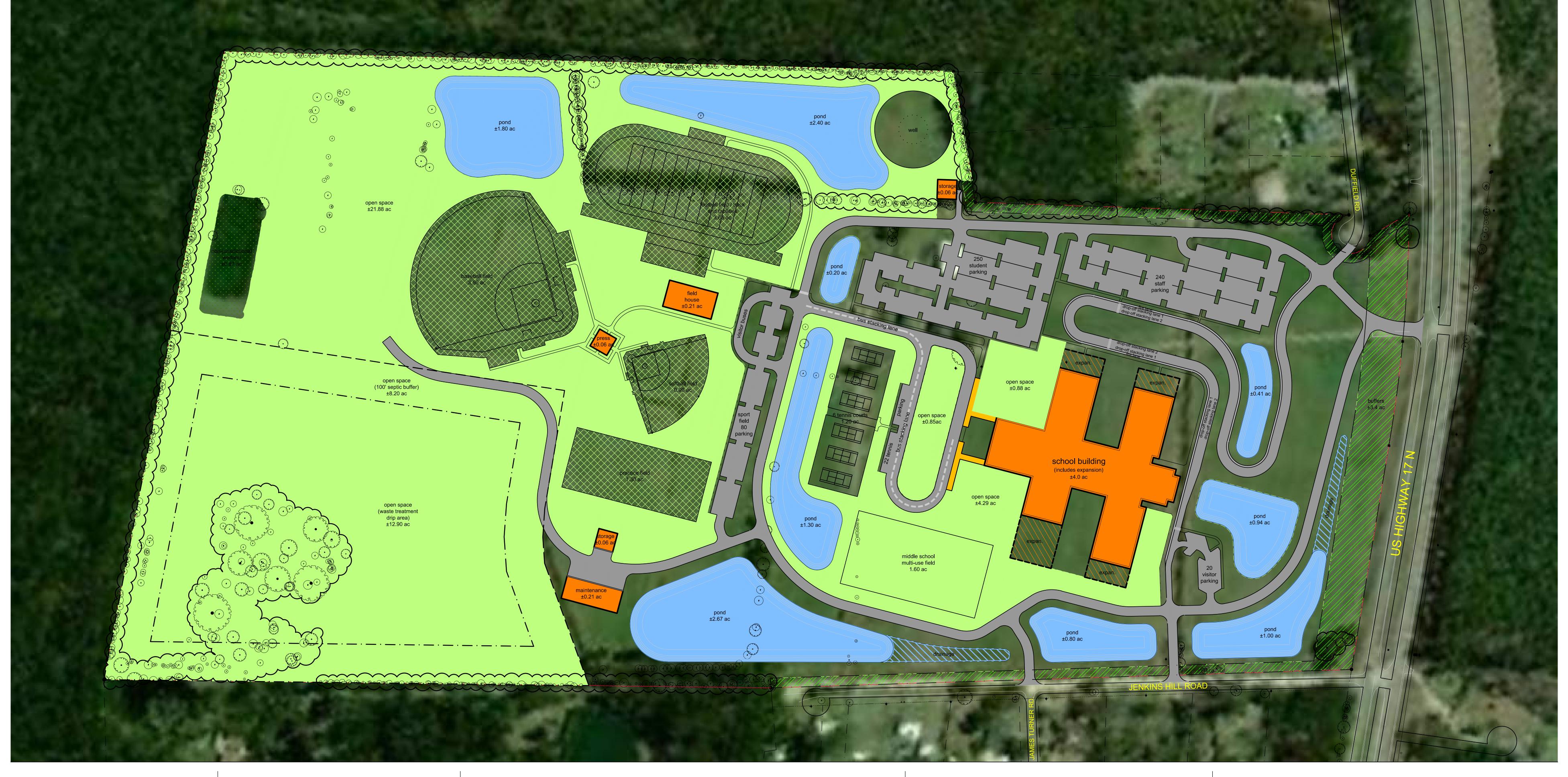
I HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN.

JOHN T. BYRNES III





APPENDIX D: AERIAL CONCEPTUAL SKETCH PLAN



General Notes:

Owner: Quarry Lake Plantation, LLC PO Box 973

Charleston, SC 29403

Developer: Charleston County School District 75 Calhoun Charleston, SC 29401

Contact: Angela Barnette email: angela_barnette@charleston.k12.sc.us

Phone: (843) 937-6300

Engineers/Land Planners: Seamon Whiteside 501 Wando Park Blvd., Ste. 200 Mount Pleasant, SC 29464 Contact: Lee Gastley

email: lgastley@seamonwhiteside.com Phone: 843/884-1667

Site Information

TMS NO: 711-00-00-052 Property is located in Flood Zone X as scaled from F.I.R.M Panel No. 45019C 0190J dated November 17, 2004.

NON-JURISDICTIONAL WETLAND UPLAND ±106.33 AC

TOTAL DEVELOPMENT:

107.2 AC

±0.87 AC

Proposed Uses

HIGH SCHOOL / MIDDLE SCHOOL (facilities): MAIN BUILDING (incl. expansion) FIELD HOUSE PARKING / VEHICULAR ACCESS ±11.10

±11.52 PONDS (NEW) POND (EXIST. NJ. WETLAND) ±0.87 LAND USE BUFFERS
TOTAL ±3.40 ±31.04 ac

OPEN SPACE

ATHLETIC FIELDS / COURTS WASTE TREATMENT DRIP AREA ±12.90 WASTE TREATMENT AREA BUFFER ±8.20 UNSTRUCTURED OPEN SPACE* ±28.38 REMAINING UNBUILT SPACE**

Unstructured open areas include, but are not limited to, contiguous areas around the buildings/structures and those areas surrounding ponds and athletic fields/courts that are not indicated as belonging to those uses. These areas may be utilized as pedestrian access or general landscaped or unused space.

±76.16 ac

** Remaining unbuilt space includes areas that do not fit in a listed use but are generally non-contiguous unused space. May include sidewalks or landscaped areas.

Note: Acreages indicated are approximate and based on the conceptual plan as shown. Total final acreages of individual built items will not exceed the amounts shown, and Total open space will not be less than shown.

Sketch Plan Notes

- This Sketch Plan is conceptual in nature and final location of features may be adjusted to allow for on-site conditions. The final layout, however, will maintain the general intent shown on this plan.
- All areas designated for future expansion or not intended for immediate improvement or development shall remain in natural state until such time as development permits are
- Maximum 4% building coverage.
- Maximum height of structures shall be 35' measured from base flood elevation to the halfway point between the eave and the peak of the highest roof element.

Legend



proposed building / building expansion

parking / internal drives



pond



drainage swale



unstructured open space



athletic fields / courts



land use buffer

existing grand tree (24"+ dbh) existing protected tree (8"-24" dbh)

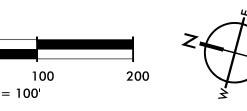
Site Location Map



AERIAL CONCEPTUAL SKETCH PLAN

AWENDAW / MCCLELLANVILLE HIGH SCHOOL / MIDDLE SCHOOL CHARLESTON COUNTY SCHOOL DISTRICT CHARLESTON COUNTY, SOUTH CAROLINA

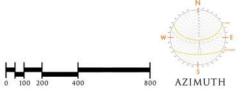






CONCEPTUAL MASTER PLAN

NOTE: THIS PLAN IS CONCEPTUAL IN NATURE AND SUBJECT TO CHANGE BASED ON FINAL SURVEY DATA. DEVELOPMENT PROGRAM INFORMATION, MUNICIPAL AND REGULATORY INPUT. ETC. IT IS INTENDED TO BE USED ONLY AS A RESOURCE TO ESTABLISH THE POTENTIAL FOR VARIOUS DEVELOPMENT SCENARIOS.





APPENDIX E:

WETLAND LETTER APPLICATION & RECEIPT



DEPARTMENT OF THE ARMY CHARLESTON DISTRICT, CORPS OF ENGINEERS 69A HAGOOD AVENUE CHARLESTON, SOUTH CAROLINA 29403-5107

FEB - 5 2019

Regulatory Division

Mr. William Wilson Sabine & Waters, Inc. PO Box 1072 Summerville, South Carolina 29483



Dear Mr. Wilson:

This letter is in response to your request for an Approved Jurisdictional Determination (AJD) (SAC-2018-01542) received in our office on September 26, 2018, for a 107.2-acre site located on Kaiser Farm in McClellanville, Charleston County, South Carolina (Latitude: 33.0437°N, Longitude: -79.5984 °W). An AJD is used to indicate that this office has identified the presence or absence of wetlands and/or other aquatic resources on a site, including their accurate location(s) and boundaries, as well as their jurisdictional status pursuant to Section 404 of the Clean Water Act (CWA) (33 U.S.C. § 1344) and/or navigable waters of the United States pursuant to Section 10 of the Rivers and Harbors Act of 1899 (RHA) (33 U.S.C. § 403).

The site in question is shown on the enclosed depiction entitled "Site Map – Kaiser Tract Ravenel Commercial Properties Charleston County, SC" and dated July 3, 2018, prepared by Sabine & Waters, Inc. Based on an on-site inspection, a review of aerial photography, topographic maps, National Wetlands Inventory maps, LIDAR, soil survey information, and Wetland Determination Data Form(s), this office has determined that the referenced site, as shown on the referenced depiction, does not contain any aquatic resources that are subject to regulatory jurisdiction under Section 404 of the CWA or Section 10 of the RHA.

Enclosed is a form describing the basis of jurisdiction for the area(s) in question. It should also be noted that some or all of these areas may be regulated by other state or local government entities. Specifically, you are encouraged to contact the South Carolina Department of Health and Environmental Control, Bureau of Water or the Department of Ocean and Coastal Resource Management, to determine the limits of their jurisdiction.

Please be advised that this AJD is valid for five (5) years from the date of this letter unless new information warrants revision before the expiration date. This AJD is an appealable action under the Corps of Engineers administrative appeal procedures defined at 33 CFR Part 331. The administrative appeal options, process and appeals request form is attached for your convenience and use.

This AJD has been conducted pursuant to Corps of Engineers' regulatory authority to identify the limits of Corps of Engineers' jurisdiction for the particular site identified in this request. This AJD may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

In all future correspondence concerning this matter, please refer to file number SAC-2018-01542. A copy of this letter is being forwarded to certain State and/or Federal agencies for their information. If you have any questions concerning this matter, please contact Leslie Estill, Project Manager, at (843) 329-8039.



Sincerely,

Tracy Sanders Biologist

Enclosures:

Approved Jurisdictional Determination Form

Notification of Appeal Options

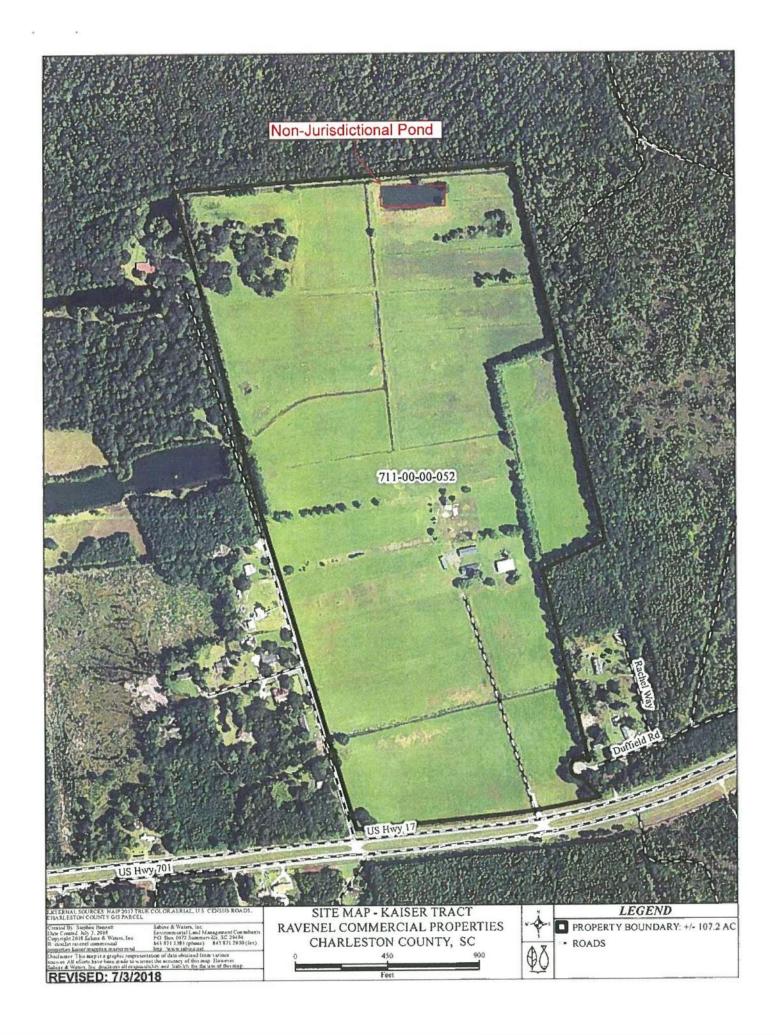
Depiction entitled "Site Map – Kaiser Tract Ravenel Commercial Properties Charleston County, SC"

Copies Furnished:

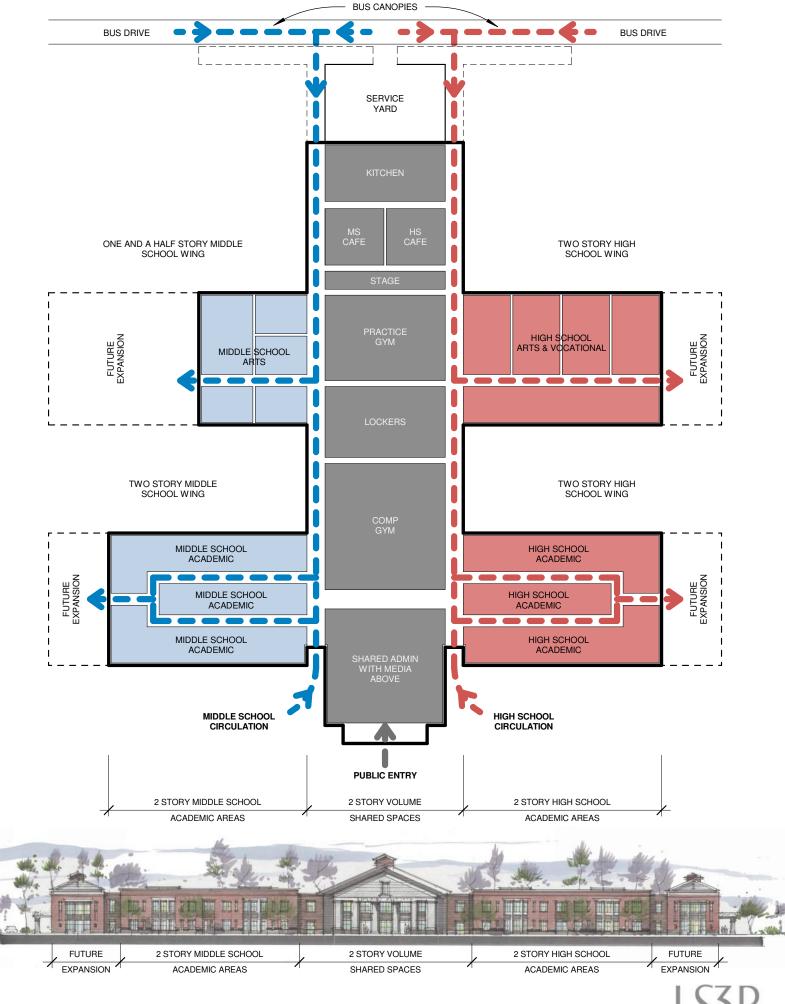
Mr. Barry Gumb Qyarry Lake Plantation, LLC 525 East Bay Street, Suite 100 Charleston, South Carolina 29403

South Carolina Department of Health and Environmental Control Bureau of Water 2600 Bull Street Columbia, South Carolina 29201

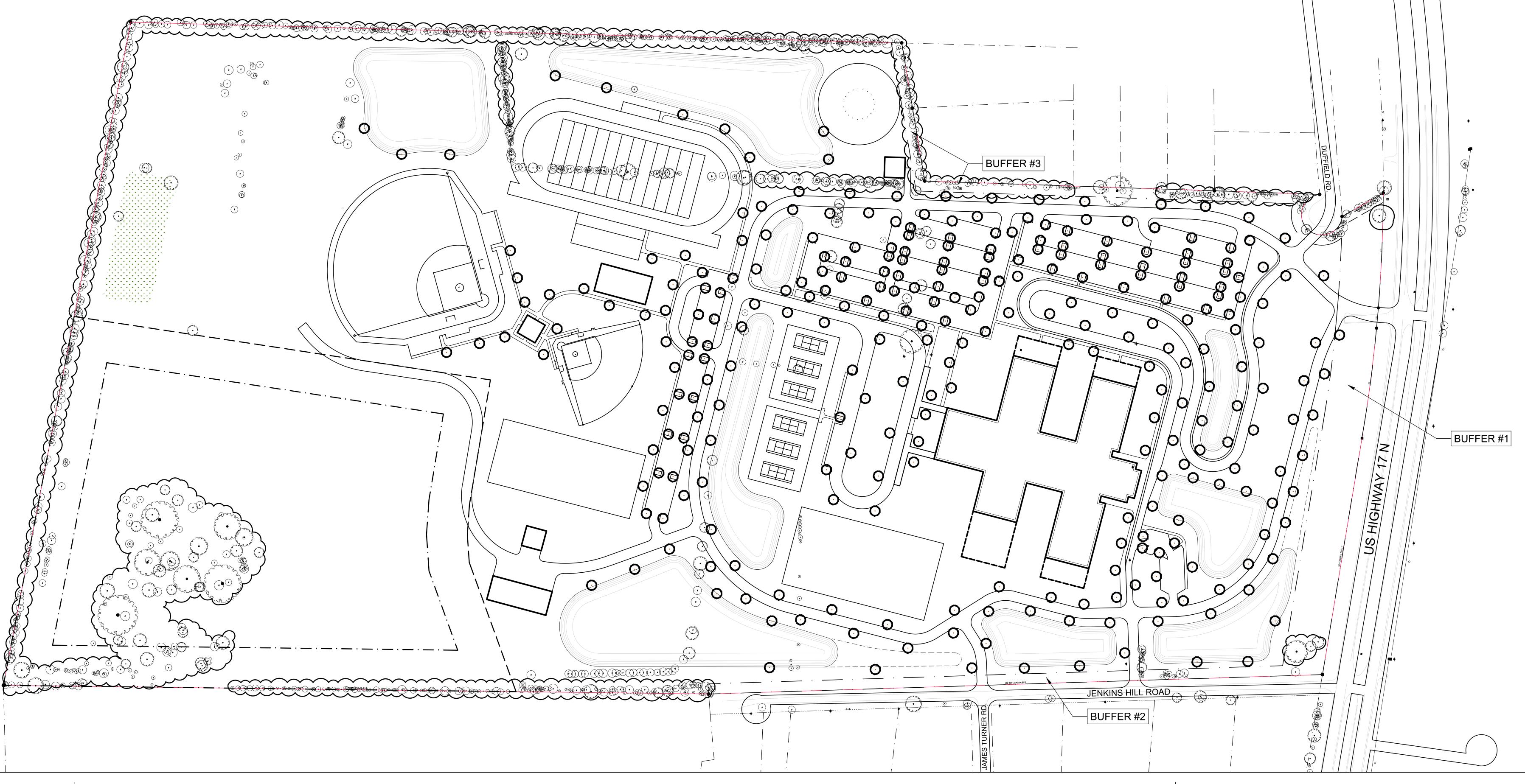
South Carolina Department of Health and Environmental Control Office of Ocean and Coastal Resource Management 1362 McMillan Avenue, Suite 400 Charleston, South Carolina 29405



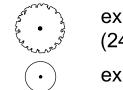
APPENDIX F: ARCHITECTURAL SITE PLAN



APPENDIX G: LANDSCAPE SKETCH PLAN

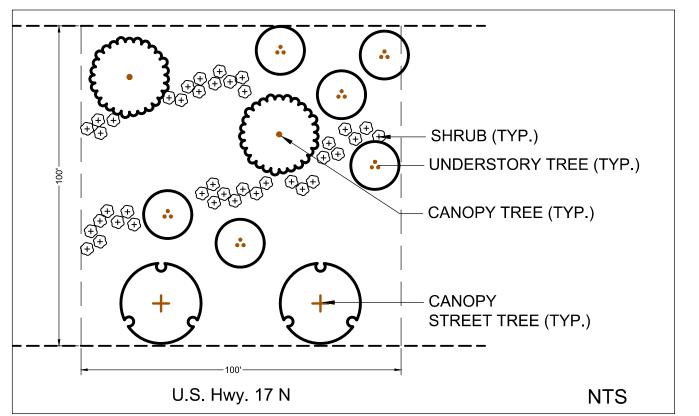


Legend



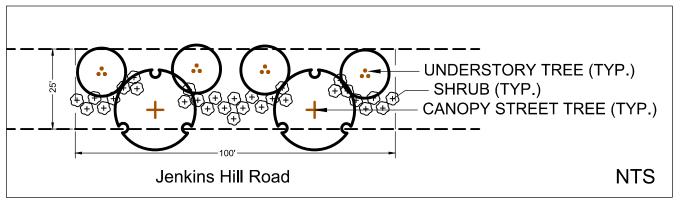
existing grand tree (24"+ dbh) existing protected tree (8"-24" dbh)

Typical Land use Buffer Plantings



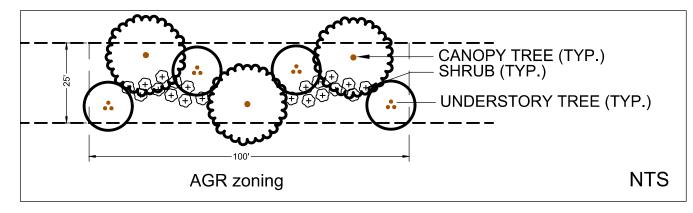
Buffer #1 (loc	ated along U.S. l	Hwy 17 N)			
100' Type S3 - total length 1,193 lf					
plant type	per 100'	multiplier	tot		

100 Type 33 - total length 1, 193 li					
plant type	per 100'	multiplier	total		
anopy/street tree	4	11.93	48*		
understory tree	6	11.93	72		
shrubs	40	11.93	478		



Buffer #2 (located along Jenkins Hill Road) 25' Type S2 - total length 1.411 If

20 Type 02 - total length 1,+11 li						
plant type	per 100'	multiplier	total			
canopy/street tree	2	14.11	29*			
understory tree	4	14.11	56			
shrubs	30	14 11	424			



Buffer #3 (located along west property line adj. to AGR zoning) 25' Type B - total length 1,538 If

plant type	per 100'	multiplier	total
canopy/street tree	3	15.38	47*
understory tree	4	15.38	62
shrubs	20	15.38	308

- Per Charleston County ZLDR, 2 street trees are required per 100 lf in S2 and S3 buffers and may count toward the canopy tree requirement.
- 2. Existing trees may count toward canopy tree requirements.
- 3. Typical Buffer Plantings shown are conceptual. Quantities will be met per requirements noted with final planting locations to be determined and approved by Charleston County Planning Staff.

Site Location Map

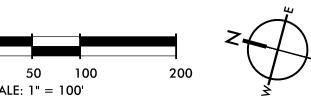


LANDSCAPING SKETCH PLAN

AWENDAW / MCCLELLANVILLE HIGH SCHOOL / MIDDLE SCHOOL CHARLESTON COUNTY SCHOOL DISTRICT CHARLESTON COUNTY, SOUTH CAROLINA

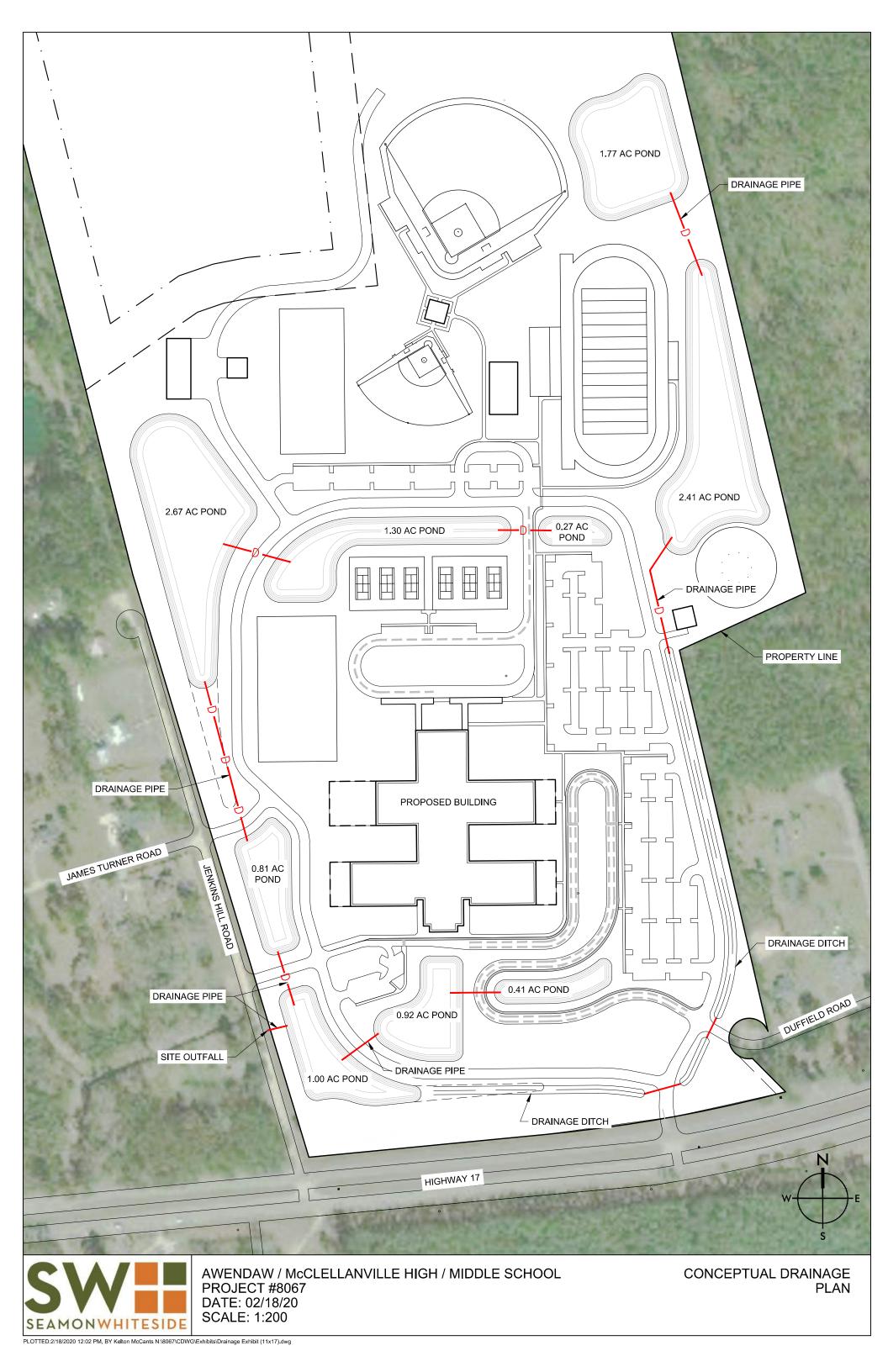


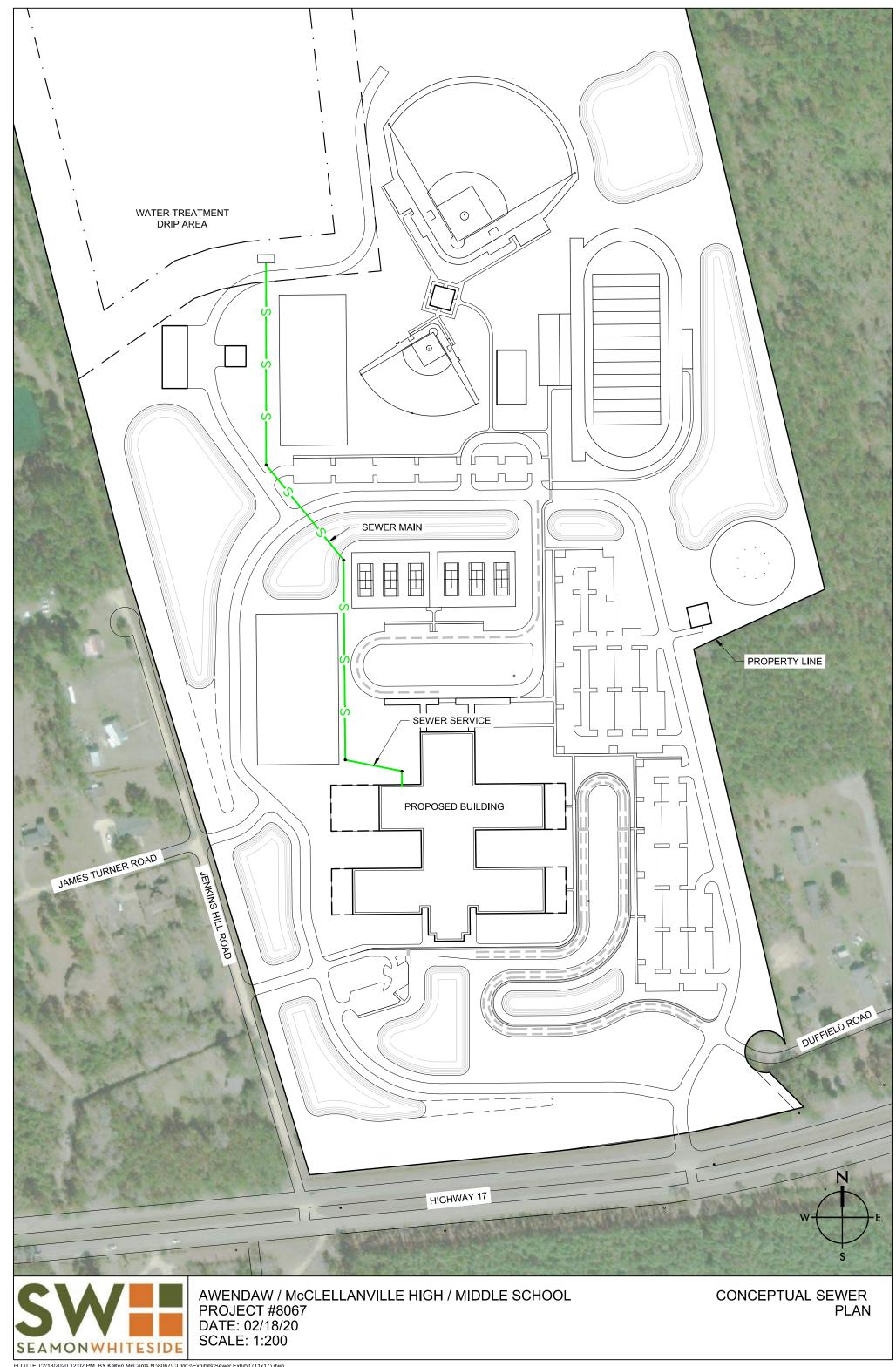
NOTE: THIS PLAN IS CONCEPTUAL IN NATURE AND SUBJECT TO CHANGE.

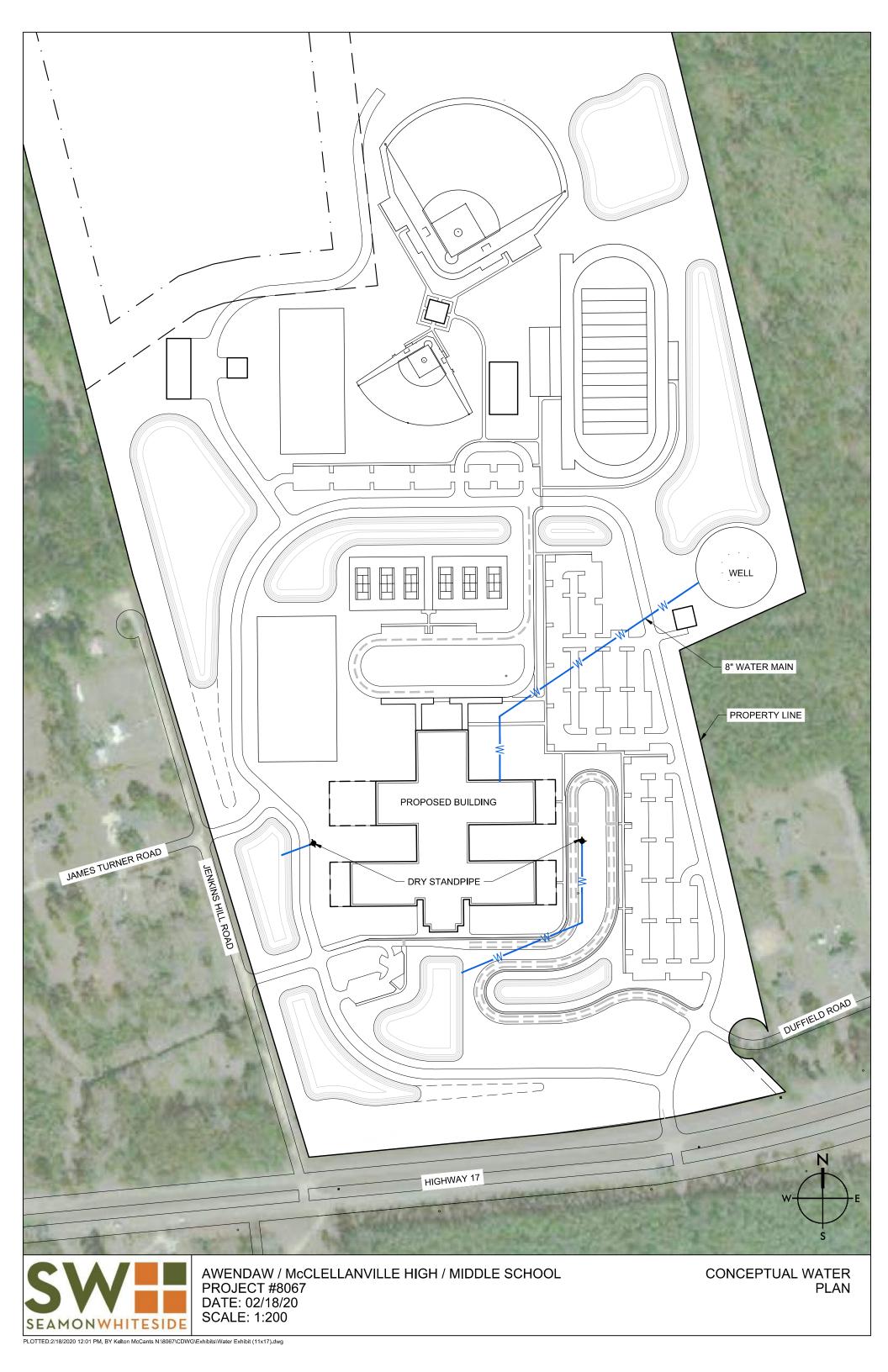


APPENDIX H:

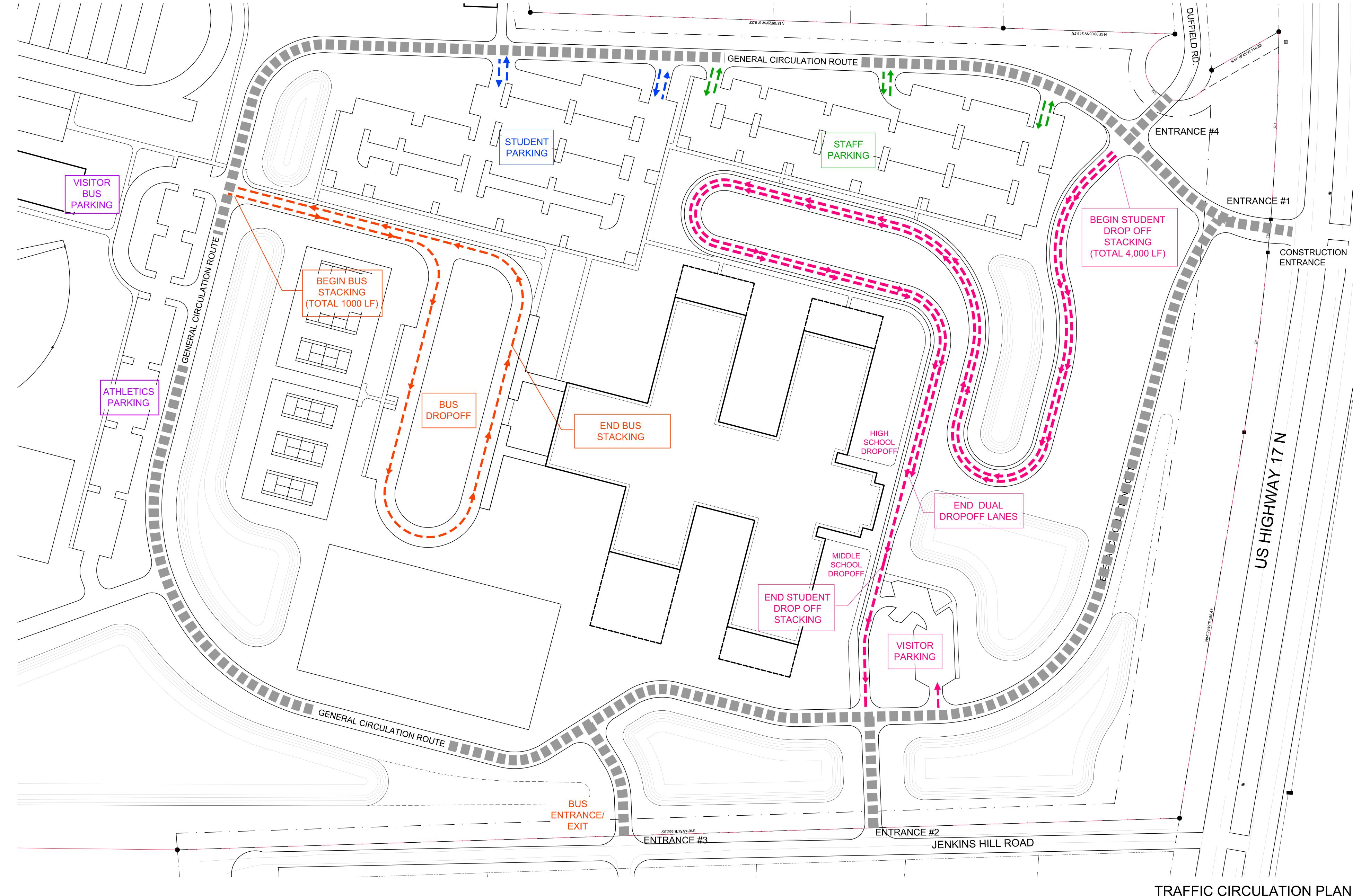
UTILITY PLANS

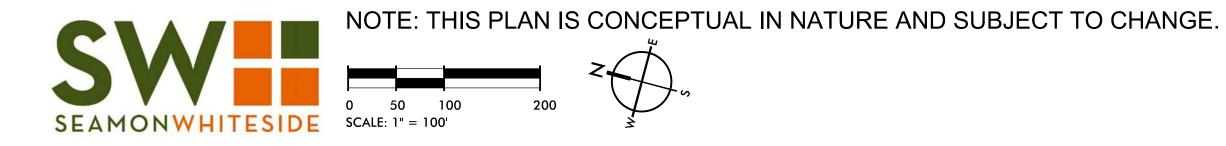






APPENDIX I: CIRCULATION PLAN





TRAFFIC CIRCULATION PLAN

APPENDIX J:

TRAFFIC IMPACT & ACCESS STUDY

TRAFFIC IMPACT AND ACCESS STUDY

HIGH SCHOOL/MIDDLE SCHOOL IN AWENDAW CHARLESTON COUNTY, SC

Prepared for:

SEAMON WHITESIDE + ASSOCIATES

501 Wando Park Boulevard, Suite 200 Mount Pleasant, SC 29464

Prepared by:

RIDGEWAY TRAFFIC CONSULTING, LLC

1720 Dutch Fork Road, Suite F Irmo, SC 29063



SUBMITTED FEBRUARY 2020

PROJECT DESCRIPTION & EXISTING CONDITIONS

Ridgeway Traffic Consulting (RTC) has been retained to evaluate the traffic and transportation impacts resulting from the construction of a new high school/middle school campus for the Charleston County School District near Awendaw, South Carolina.

Evaluation of the transportation impacts associated with the proposed project first requires a thorough description and quantification of the proposed project and the project site, which is included in the following sections.

PROJECT DESCRIPTION

The project proposal is to construct a new combined high school/middle school campus along the north side of US 17 in the proximity of Kaiser Farm Road in rural Charleston County near Awendaw, South Carolina. **Figure 1** depicts the site location in relation to the local and regional roadway system.

Access for the school is currently proposed via a main entrance for students, staff and parent drop-offs/pick-ups to US 17 in the current location Kaiser Farm Road where an existing median break is provided. A second entrance for students, staff and parent drop-offs will be provided to Jenkins Hill Road. The bus loop will be serviced via a separate connection to Jenkins Hill Road. Connectivity to the east to Duffield Road is also proposed.

Details/recommendations for the site access drives are provided in the Mitigation section of this report.

Under the current development plan, the school is anticipated to open in the Fall of 2025, which is the horizon year analyzed for this report. **Figure 2** depicts the conceptual plan for the school.

GEOMETRICS AND TRAFFIC CONTROL

A comprehensive field inventory of the site and study area has been conducted. The field inventory included a collection of geometric data, traffic volumes, and traffic control within the study area.

Study Area Roadway

US 17 – is a four-lane divided major arterial across site frontage with two lanes provided in each direction separated by a grassed median. The posted speed limit across site frontage is currently 60 miles-per-hour (mph). This roadway is maintained by the SCDOT.

The existing lane geometrics and traffic control characteristics for the study area roadways/intersections are graphically depicted in **Figure 3**.

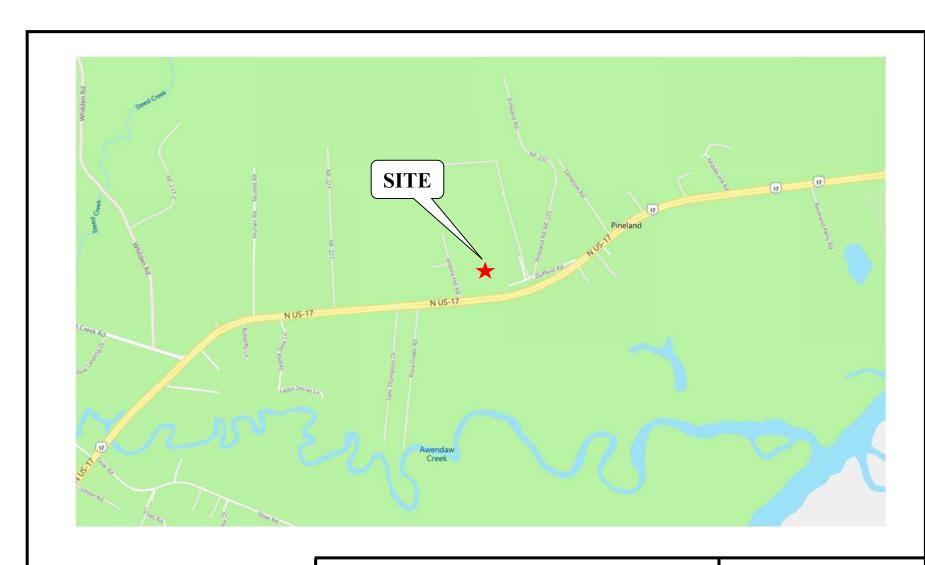




Figure 1 SITE LOCATION MAP

High School/Middle School In Awendaw





NOTE: THIS PLAN IS CONCEPTUAL IN NATURE AND SUBJECT TO CHANGE BASED ON FINAL SURVEY DATA. DEVELOPMENT PROGRAM INFORMATION, MUNICIPAL AND REQULATORY LYPUT. TEC. IT IS INTENDED TO BE USED ONLY AS RESOURCE TO ESTABLISH THE POTENTIAL FOR VARIOUS DEVELOPMENT SCENARIOS.

02/19/2020

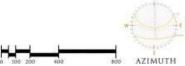




Figure 2 PROPOSED SITE PLAN



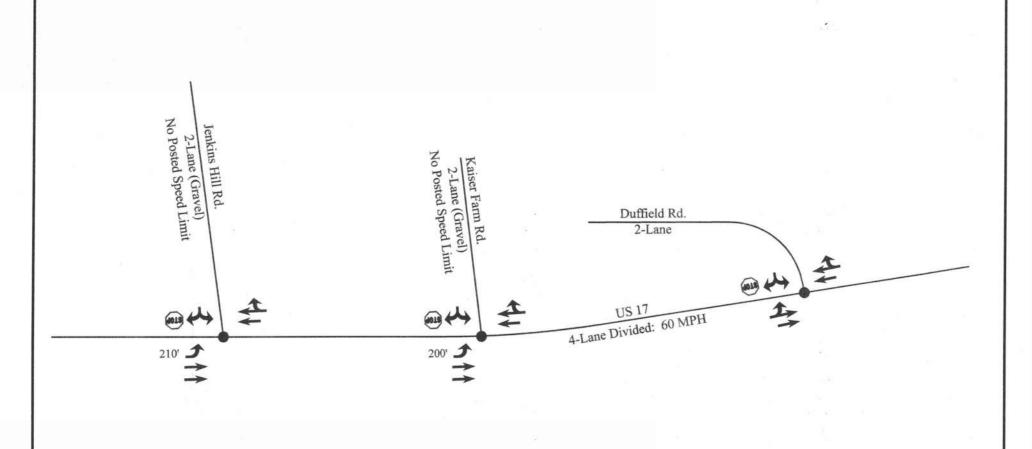
TRAFFIC VOLUMES

In order to determine the existing traffic volume flow patterns within the study area, manual turning movement counts were gathered for the weekday morning (7:00-9:00 AM) and afternoon (2:00 – 6:00 PM) peak time periods for the following study area intersections along US 17:

- US 17 at Jenkins Hill Road; and
- US 17 at Duffield Road.

The PM peak hour was expanded by two hours to pick up times when the school is anticipated to peak in the afternoon, which is before the commuter PM peak. The AM peak hour for the school is anticipated to coincide with the typical commuter peak.

The existing peak-hour traffic flow networks for the weekday AM, School PM and Commuter PM peak-hour periods are shown graphically in **Figures 4A-4C**.



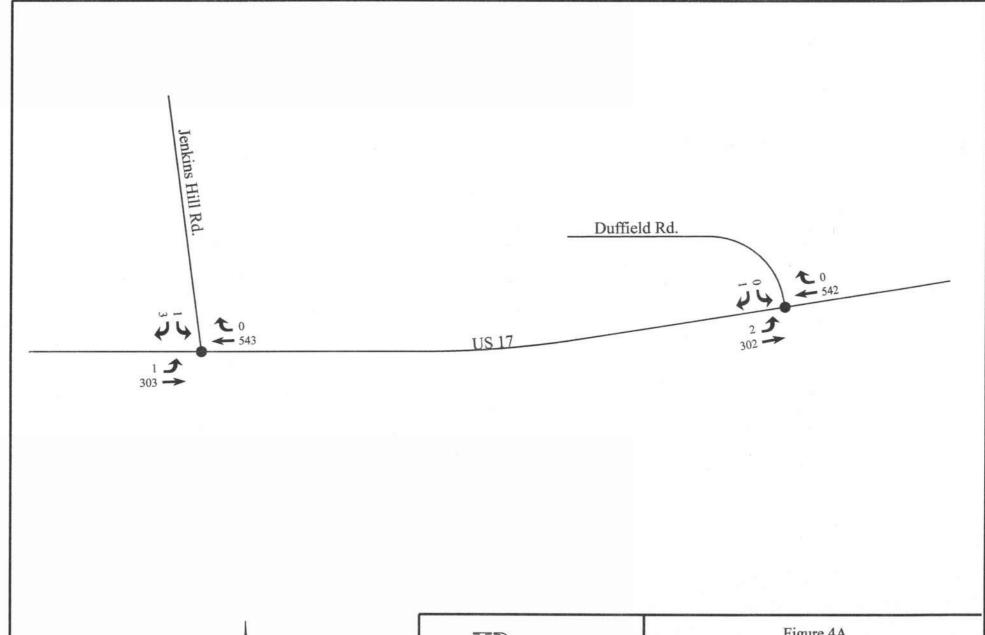
Unsignalized IntersectionLane Designation

000' = Storage Length



Ridgeway
Traffic Consulting

Figure 3
EXISTING GEOMETRY &
TRAFFIC CONTROL

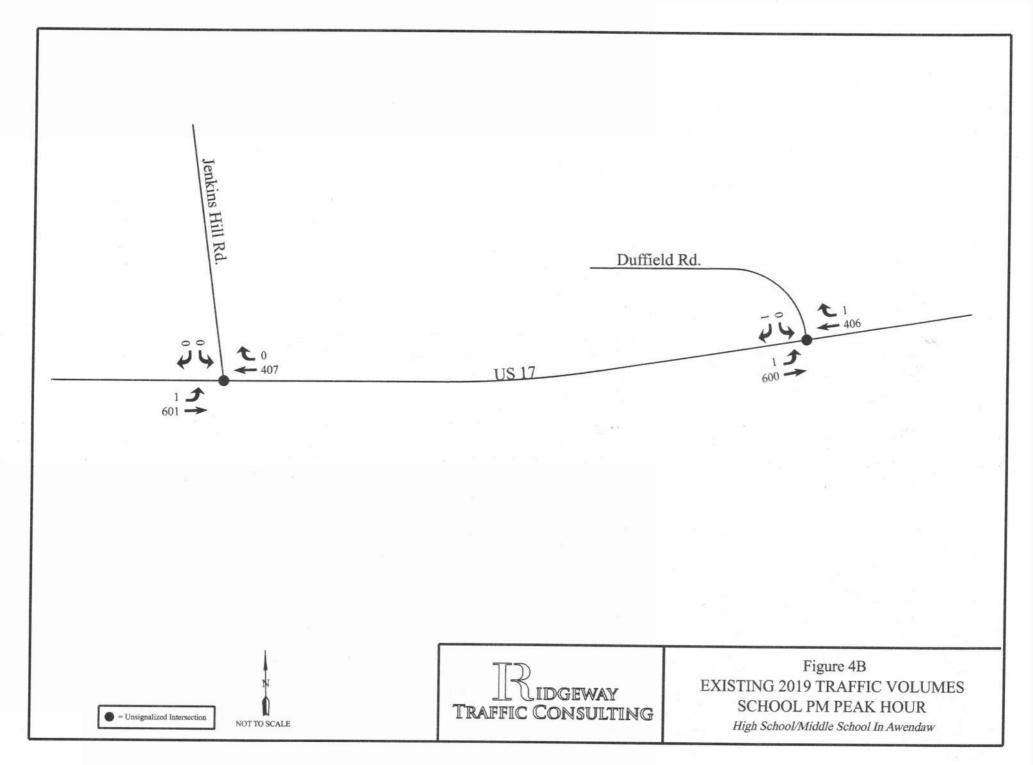


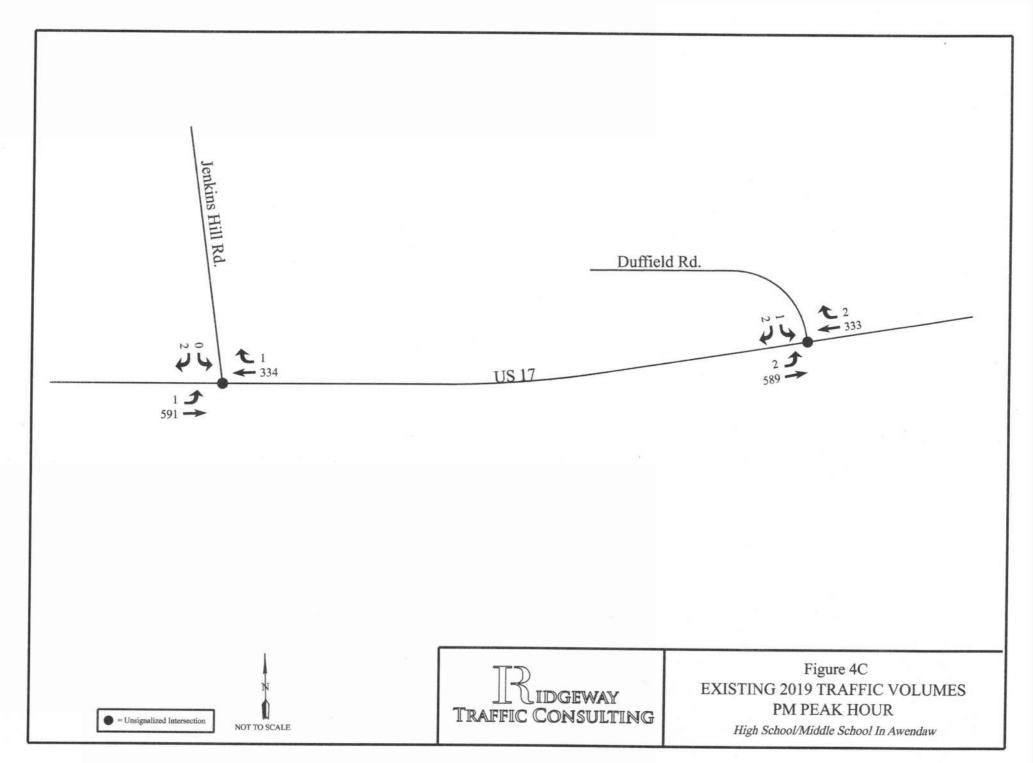


Unsignalized Intersection



Figure 4A EXISTING 2019 TRAFFIC VOLUMES AM PEAK HOUR





PROBABLE IMPACTS OF THE PROJECT

To estimate the impact of site-generated traffic volumes on the roadway network under Future conditions, Existing traffic volumes in the study area were projected to the Year 2025, which is when the proposed school is expected to be constructed and operational. Traffic volumes on the roadway network at this time will include all existing traffic, any new traffic due to normal traffic growth, and any traffic related to specific developments that are presently approved and expected to be completed by 2025 (in excess of normal traffic volume growth). Consideration of these factors resulted in the development of 2025 No-Build traffic volumes. Anticipated site-generated traffic volumes were then super-imposed upon the 2025 No-Build traffic flow networks to reflect 2025 Build conditions including the proposed development.

BACKGROUND TRAFFIC GROWTH

Traffic growth on area roadways is a function of the expected land development both within the immediate area as well as the surrounding region. Several methods can be used to estimate this growth. A procedure frequently employed identifies the location and type of approved/permitted development. This produces a realistic estimate of growth for local traffic. However, the drawback of this procedure is that the potential growth in population and traffic growth external to the study area would not be accounted for in the traffic projections.

An alternative procedure estimates an annual percentage increase in traffic growth and applies that percentage to all traffic volumes under study. The drawback to such a procedure is that some turning movement volumes may be growing at either a higher or lower rate at particular intersections. To provide a conservative analysis framework, both procedures have been applied.

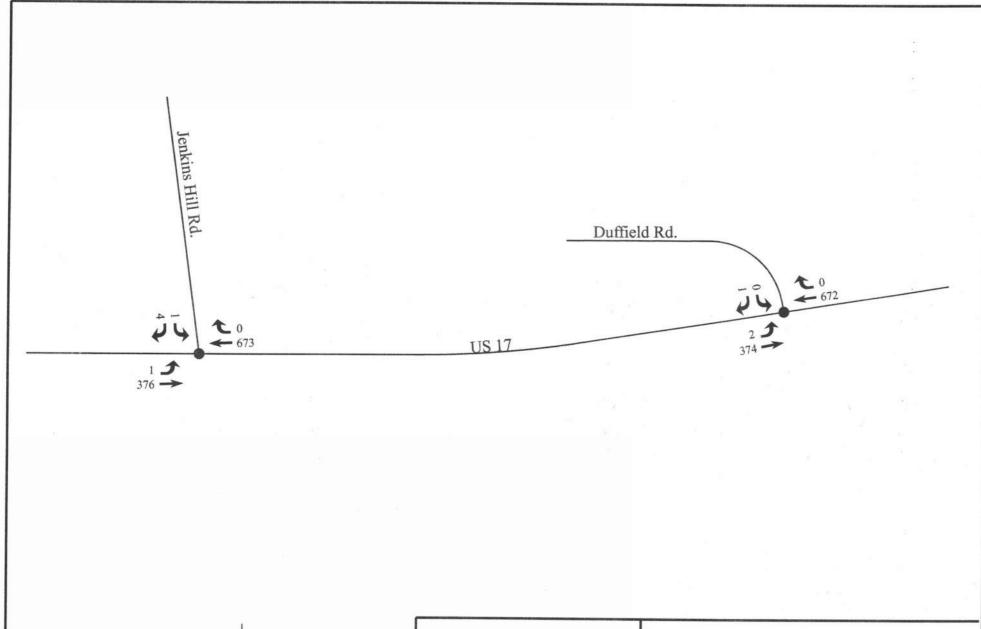
Specific Development

No specific background developments were identified for inclusion in future traffic volumes beyond normal annual growth.

Annual Growth

Based on a review of historical SCDOT traffic data for US 17 between Awendaw and McClellanville (Station #137), growth has been moderate over the past five years based on a 2013 reported volume of 9,400 vehiclesper-day (vpd) and a 2018 reported volume of 11,100 vpd. Based on this data, a 4-percent annual growth rate was developed and utilized for this report.

The anticipated 2025 No-Build AM and PM peak-hour traffic volumes, which include the 4-percent annual growth rate, are graphically depicted in **Figures 5A-5C** for the AM, School PM and Commuter PM peak hours.

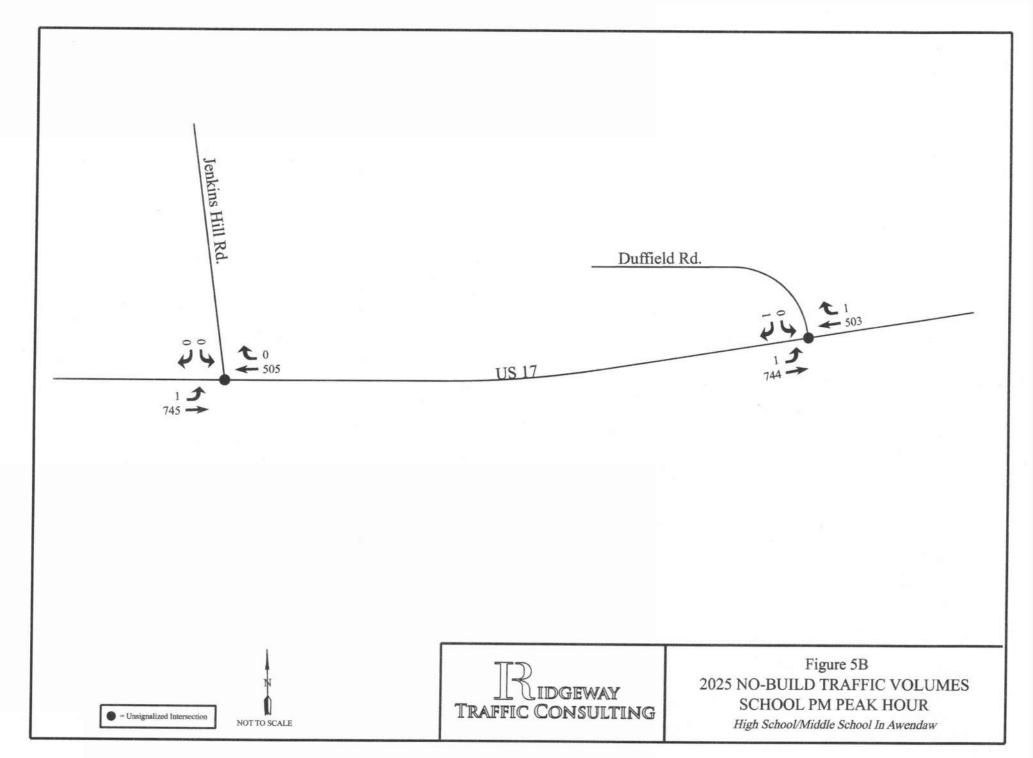


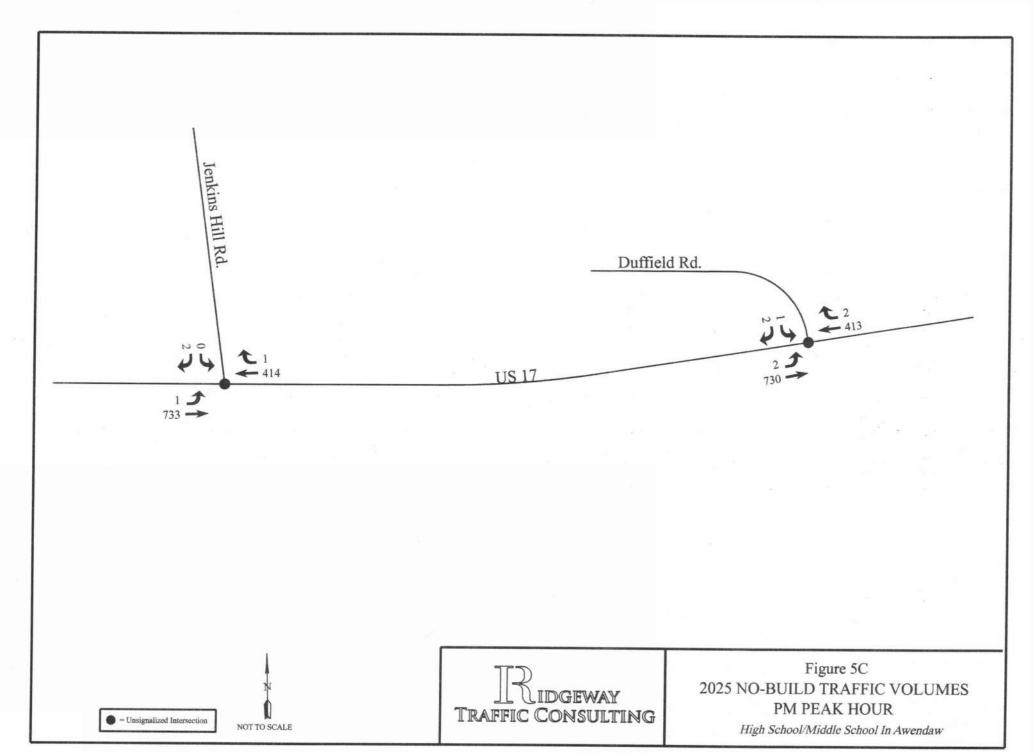


Unsignalized Intersection



Figure 5A 2025 NO-BUILD TRAFFIC VOLUMES AM PEAK HOUR





PLANNED ROADWAY IMPROVEMENTS

No funded roadway improvement projects were identified within the study area that are expected to add capacity by the time the project is completed.

SITE-GENERATED TRAFFIC

Traffic volumes generated by the proposed school campus were forecasted using the Tenth Edition of the Institute of Transportation Engineers (ITE) *Trip Generation* Manual¹. Land-Use codes #522 (Middle School/Junior High School) and #530 (High School) were used to project site traffic. **Table 1** summarizes the anticipated trip generation characteristics for the campus.

Table 1
PROJECT TRIP GENERATION SUMMARY¹
High School/ Middle School In Awendaw

Time Period	500 Student Middle School (a)	500 Student High School (b)	Total Trips (a+b)
AM Peak-Hour			
Enter	157	174	331
<u>Exit</u>	<u>133</u>	<u>86</u>	<u>219</u>
Total	290	260	550
PM Peak-Hour (School)			
Enter	80	68	148
Exit_	<u>95</u>	<u>144</u>	<u>239</u>
Total	175	212	387
PM Peak-Hour (Commuter)			
Enter	42	34	76
Exit_	<u>43</u>	<u>36</u>	<u>79</u>
Total	85	70	155

¹ ITE Trip Generation manual, 10th Edition: LUC 522 (Middle/Jr. High School) & LUC 530 (High School)

As shown, the proposed campus is expected to generate a total of 550 trips (331 entering, 219 exiting) during the AM peak-hour, with 387 trips (148 entering, 239 exiting) during the school PM peak-hour. During the typical commuter PM peak hour, a total of 155 trips (76 entering, 79 exiting) can be expected.

Distribution Pattern

Traffic for the new school been assigned based on observed patterns in the area and information provided by the School District. This pattern is shown in **Table 2**. In general, 70-percent of students for the campus are expected to arrive from the west (Awendaw and Mount Pleasant), with the balance from the east (McClellanville). Exiting movements during the AM are expected to be more heavily weighted to the west due to parents that drop a student from the east and then continue towards Mount Pleasant. This pattern is expected to be reversed during the PM hours.

¹ Trip Generation, Tenth Edition; Institute of Transportation Engineers; Washington, DC.

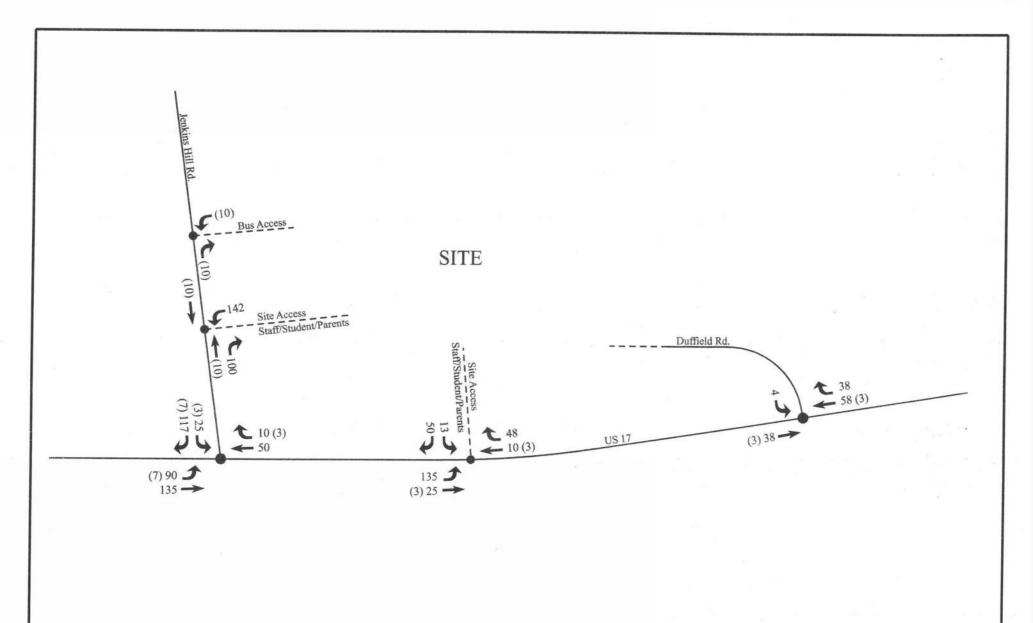
Table 2
PROJECT TRIP-DISTRIBUTION SUMMARY¹
High School/ Middle School In Awendaw

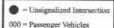
		AM PEAF	K-HOUR	PM PEAI SCH		PM PEAI COMM	
Roadway	Direction To/From	Enter	Exit	Enter	Exit	Enter	Exit
US 17	East (McClellanville)	30	20	20	30	20	30
	West (Awendaw/ Mt. Pleasant)	70	80	80	70	80	70
	Total	100	100	100	100	100	100

The site-generated traffic presented in Table 1 has been distributed within the study area roadway network as shown by the distribution pattern shown in Table 2. This has resulted in the site-generated specific volumes for the study area as depicted in **Figures 6A-6C**.

BUILD TRAFFIC VOLUMES

The site-generated traffic volumes shown in Figures 6A-6C have been added to the 2025 No-Build traffic volumes (Figures 5A-5C) to represent 2025 Build traffic volume conditions which are depicted graphically in **Figures 7A-7C.** These volumes were used as the basis for analysis to determine potential improvement measures necessary to mitigate traffic impacts caused by the project.



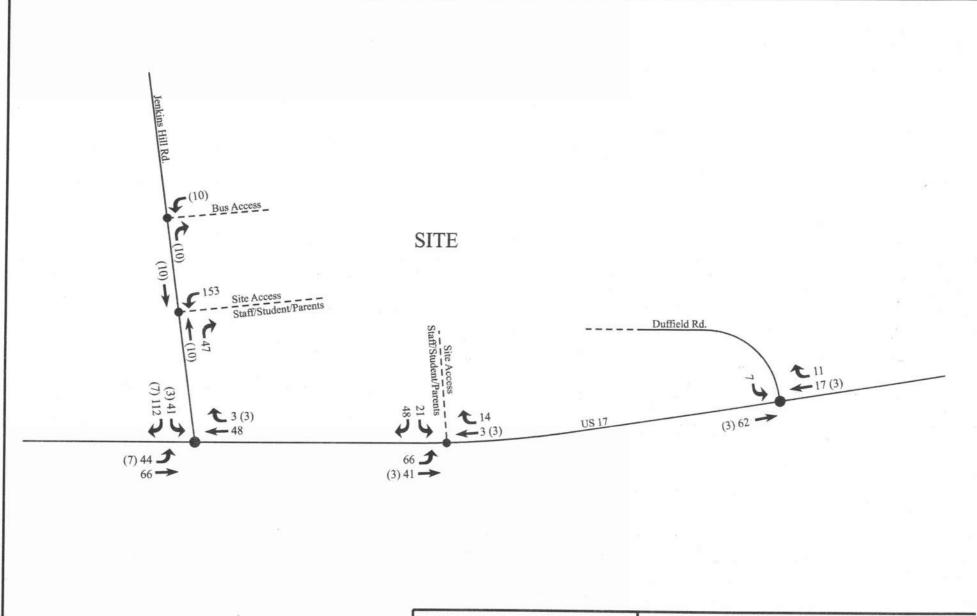


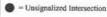
(000) = Buses





Figure 6A SITE-GENERATED TRAFFIC VOLUMES AM PEAK HOUR





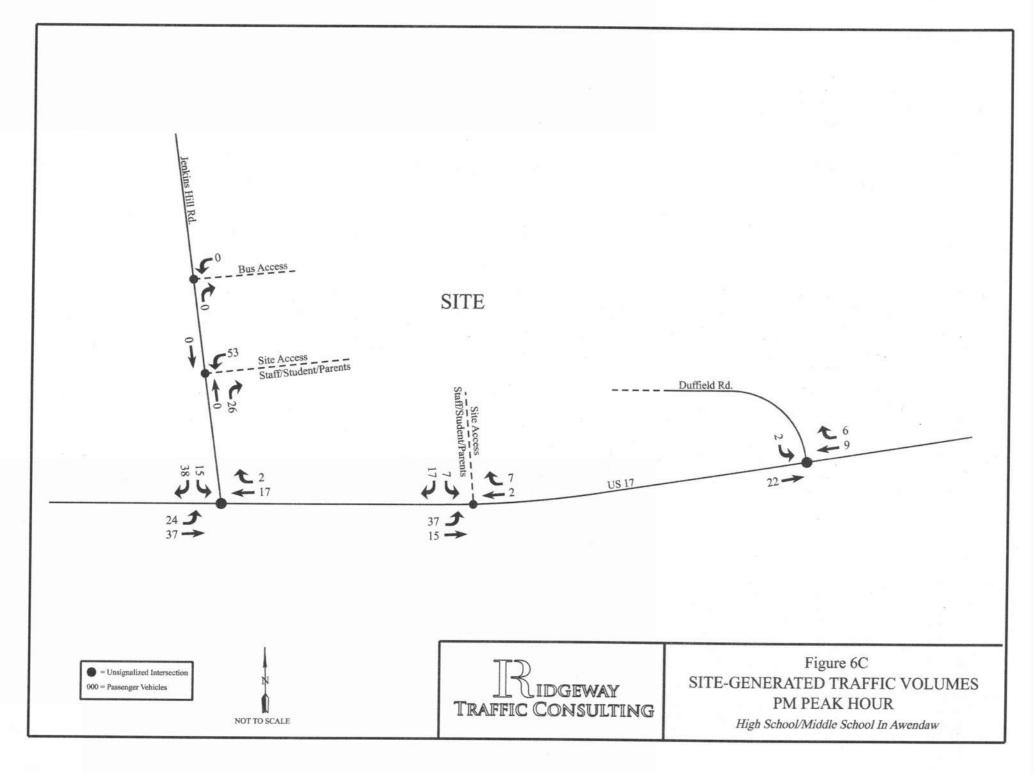
000 = Passenger Vehicles

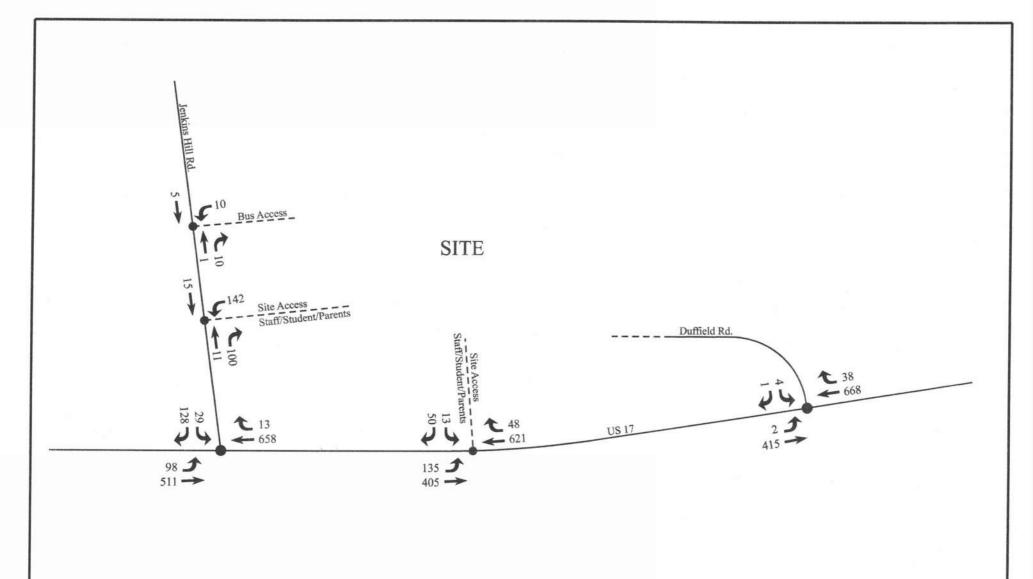
(000) = Buses





Figure 6B SITE-GENERATED TRAFFIC VOLUMES SCHOOL PM PEAK HOUR







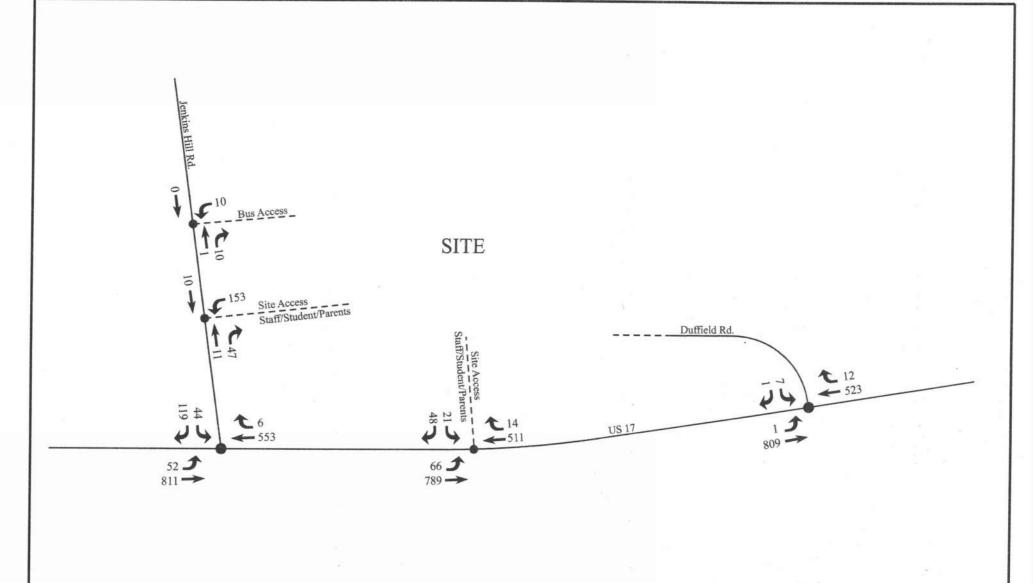
000 = Passenger Vehicles

(000) = Buses





Figure 7A 2025 BUILD TRAFFIC VOLUMES AM PEAK HOUR





000 = Passenger Vehicles

(000) = Buses





Figure 7B 2025 BUILD TRAFFIC VOLUMES SCHOOL PM PEAK HOUR

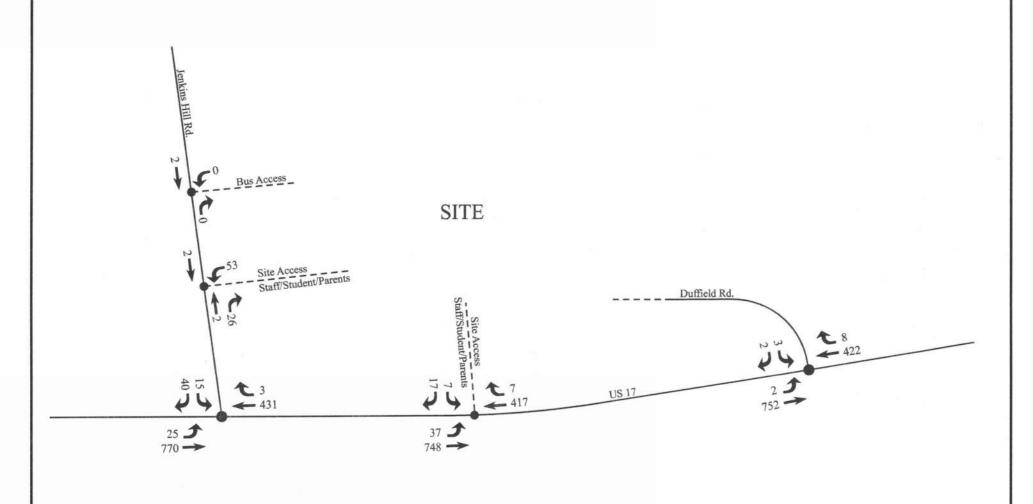








Figure 7C 2025 BUILD TRAFFIC VOLUMES PM PEAK HOUR

TRAFFIC OPERATIONS ANALYSIS

Measuring existing and future traffic volumes quantifies traffic flow within the study area. To assess quality of flow, capacity analyses were conducted under Existing, No-Build, and Build traffic volume conditions. Capacity analyses provide an indication of how well the study area intersections serve existing and future traffic demands.

METHODOLOGY

Level-of-Service

A primary result of capacity analyses is the assignment of level-of-service (LOS) to traffic facilities under various traffic flow conditions. The concept of level-of-service is defined as a qualitative measure describing operational conditions within a traffic stream and their perception by motorists and/or passengers. A level-of-service definition provides an index to quality of traffic flow in terms of such factors as speed, travel time, freedom to maneuver, traffic interruptions, comfort, convenience, and safety.

Six levels-of-service are defined for each type of facility. They are given letter designations from A to F, with LOS A representing the best operating conditions and LOS F the worst.

Since the level-of-service of a traffic facility is a function of the traffic flows placed upon it, such a facility may operate at a wide range of levels-of-service, depending on the time of day, day of week, or period of a year.

ANALYSIS RESULTS

Intersection analyses have been conducted for the study area intersections under Existing, and Future 2025 (No-Build & Build) conditions. The results of these analyses are shown in **Table 3.** The intersection analysis worksheets are contained in the Appendix at the end of this report.

Table 3
LEVEL-OF-SERVICE SUMMARY
High School/ Middle School In Awendaw

	Time	EXISTIN CONDI		FUTUR NO-B CONDI	UILD	В	RE 2025 UILD DITIONS
<u>Unsignalized Intersections</u>	Period	<u>Delay</u> ^a	LOS ^b	Delay	LOS	Delay	LOS
US 17 at Jenkins Hill Road	AM	10.8	В	11.6	В	20.0	C
	PM School	8.2	A	8.5	A	18.8	В
	PM	9.5	A	9.8	A	12.1	В
US 17 at Duffield Road	AM	10.1	В	10.7	В	13.8	В
	PM School	9.6	A	10.0	В	13.2	В
	PM	10.2	В	10.8	В	11.8	В
US 17 at Main School Access	AM					14.0	В
(Students, Staff, Parents)	PM School					12.9	В
	PM					11.1	В
Jenkins Hill Road at Site Access	AM					10.7	В
(Students, Staff, Parents)	PM School					10.3	В
	PM					9.0	A
Jenkins Hill Road at Bus Access	AM					8.7	A
	PM School					8.6	A
	PM					-	A

a. Delay in seconds-per-vehicle.

GENERAL NOTES:

1. For unsignalized intersections, Delay is representative of the critical movement.

As shown, under Existing conditions, analyses indicate good operations for both unsignalized intersections along US 17 on each side of the proposed school site. Volumes along US 17 are moderate during the peak hours, however STOP controlled movements are currently low at both intersections and acceptable gaps are available for side-street traffic.

Under 2025 No-Build conditions, which account for 4-percent annual background growth in traffic, operations are expected to remain similar to Existing conditions, with only slight increases in delay.

Analysis of 2025 Build Conditions indicate that acceptable service levels (LOS C or better) will be present within the study area. A drop in one service level is anticipated at the US 17 at Jenkins Hill Road during each peak hour, however no significant delays are projected. It should be noted that these service levels are projected based on existing geometry. Recommendations for this intersection based on SCDOT requirements adjacent to school sites are provided and analyzed in the next section of this report. The US 17 at Duffield Road intersection is expected to maintain LOS B as with No-Build Conditions.

The direct school access to US 17 is expected to operate well at LOS B during all peak hours with the incorporation of recommended geometry and traffic control detail in the next section of this report.

The direct site access drives to Jenkins Hill Road are expected to operate with low delays due to minimal conflicting traffic along Jenkins Hill Road. Recommendations for these two access points are detailed in the next section of this report.

b. LOS = Level-of-Service.

MITIGATION

The final phase of the analysis process is to identify mitigating measures which may either minimize the impact of the project on the transportation system or tend to alleviate poor service levels not caused by the project. Measures considered necessary to mitigate roadway system deficiencies are discussed below as they relate to the impacts of the proposed project.

PROPOSED SITE ACCESS

Access for the proposed campus is proposed via a direct access to US 17, two connections to Jenkins Hill Road (one for buses only) and a connection to Duffield Road to the east. Recommendations for each access drive are provided as follows:

<u>US 17 at Site Access</u>: This intersection will serve as a primary access for the campus serving parent drop-offs/pick-ups, student drivers and staff, etc. This access is proposed in the location of the existing Kaiser Farm Road, for which a median break exists within US 17. The following geometry is recommended for this intersection:

- Eastbound (US 17) Approach: The existing left-turn lane for this approach will need to be upgraded to provide for 250-ft of storage with 200-ft. of taper. The existing storage for this lane is approximately 200-ft. Final design should be coordinated with SCDOT and may require an offset design as the existing turn lane is a standard parallel design;
- Westbound (US 17) Approach: SCDOT standards call for a dedicated right-turn with 250-ft. of storage and 200-ft. of taper. Due to the driveway for a single-family home to the east, the storage and taper will need to be modified for the approximate 370-ft. of available frontage. One option would be a 170-ft lane with 200-ft. of taper as storage is not anticipated to be an issue; and
- Southbound (Site Access): Construct new access with one entering lane and two exiting lanes designated as a separate left-turn lane and separate right-turn lane. A minimum of 200-ft of storage is recommended for the right-turn lane. Place new approach under STOP sign control.

<u>Jenkins Hill Road at Southern Access</u>: This intersection will also serve as a primary access for the campus serving parent drop-offs/pick-ups, student drivers and staff, etc. This access is proposed approximately 450-ft. north of US 17, which is considered good separation. The following geometry is recommended for this intersection:

- Northbound (Jenkins Hill Road) Approach: A dedicated right-turn lane is recommended for this approach to separate traffic entering the school from bus traffic that will continue north;
- Southbound (Jenkins Hill Road) Approach: Movements from the north into the access are expected to be negligible and a dedicated left-turn lane is not recommended; and

• Westbound (Site Access): Construct new access with one entering lane and one exiting lane. Place new approach under STOP sign control.

Jenkins Hill Road at Northern Access (Buses): This intersection will service only bus traffic during school operations and is located approximately 400-ft. north the southern access, which is considered good separation. Based on the minimal conflicting volumes, single lane approaches are recommended for all approaches to this intersection. Turning radii should be designed for bus traffic. The westbound site access approach should be placed under STOP sign control.

<u>Duffield Road Connectivity</u>: The existing master plan calls for an extension of Duffield Road into the site. While this would provide an additional connection to US 17, the following should be noted:

- 1) While Duffield Road can be expected to service some school traffic oriented to/from the east, these movements could be accommodated at the other school access drives. Analyses for this option are presented later in this report.
- 2) While it would not be logical for school traffic oriented from Awendaw/Mount Pleasant to utilize this intersection, the eastbound left-turn movement would still be allowed, which may require a dedicated left-turn lane within the median of US 17, not based on traffic volumes, but based on safety due to the high-speed nature of US 17 in this area. If the connection to the school is provided, it is likely also that a westbound right-turn deceleration lane would be required.

Stacking

The conceptual plan for the school indicates approximately 4,000-feet of double-lane stacking, which exceeds SCDOT guidelines, and should be more than enough accommodate anticipated on-site stacking.

OFF-SITE IMPROVEMENTS

US 17 at Jenkins Hill Road

This intersection will be critical for school traffic as all bus traffic will utilize this intersection as well as significant entrances and exists for passenger vehicles. The following improvements are recommended for this intersection:

- **Eastbound (US 17) Approach:** The existing left-turn lane for this approach will need to be upgraded to provide for 250-ft of storage with 200-ft. of taper. The existing storage for this lane is approximately 210-ft. Final design should be coordinated with SCDOT and may require an offset design as the existing turn lane is a standard parallel design;
- Westbound (US 17) Approach: SCDOT standards call for a dedicated right-turn with 250-ft. of storage and 200-ft. of taper.
- Southbound (Jenkins Hill Road): Widen the southbound approach to provide for separate left and right-turn lanes. A minimum of 200-ft of storage is recommended for the right-turn lane. Maintain STOP sign control for the intersection.

Capacity analyses have been conducted to evaluate the proposed mitigation measures for the intersection of US 17 at Jenkins Hill Road and for the intersection of US 17 at the direct site access with the Duffield Road connection eliminated and volumes reassigned. The results of these analyses are shown in **Table 4**.

Table 4 MITIGATED LEVEL-OF-SERVICE SUMMARY High School/ Middle School In Awendaw

	Time	FUTUR NO-B CONDI	UILD	FUIUR BUI CONDI	LD	FUTUR BUI CONDI <u>MITIG</u>	LD TIONS
<u>Unsignalized Intersections</u>	Period	<u>Delay</u> ^a	LOS ^b	Delay	LOS	Delay	LOS
US 17 at Jenkins Hill Road	AM	11.6	В	20.0	C	15.0	C
	PM School	8.5	A	18.8	В	14.1	В
	PM	9.8	A	12.1	В	11.5	В
US 17 at Main School Access	AM			14.0	В	14.8	В
(Students, Staff, Parents)	PM School			12.9	В	13.6	В
	PM			11.1	В	11.3	В

a. Delay in seconds-per-vehicle.

GENERAL NOTES:

As shown, the proposed turn-lane improvements for the US 17 at Jenkins Hill Road will have a positive impact on the intersection. Analysis also indicate that the US 17 at site access intersection could accommodate additional volumes that were assigned to the Duffield Road connection without significant increases in delay.

CONCLUSIONS

The traffic study has been prepared to evaluate the traffic impacts and access needs for a combined high school/middle school campus along the north side of US 17 in the proximity of Kaiser Farm Road in rural Charleston County near Awendaw, South Carolina. The school is being planned for 500 middle school students and 500 high school students. A horizon year of 2025 has been reviewed for this report.

Access for the school is currently proposed via a main entrance for students, staff and parent drop-offs/pick-ups to US 17 in the current location Kaiser Farm Road where an existing median break is provided. A second entrance for students, staff and parent drop-offs will be provided to Jenkins Hill Road. The bus loop will be serviced via a separate connection to Jenkins Hill Road. Connectivity to the east to Duffield Road is also proposed.

Turn lane improvements have been recommended for the main intersection to US 17 and the intersection of US 17 at Jenkins Hill Road that will minimize impacts on US 17 through volumes and provide for good traffic operations. Conflicting traffic volumes along Jenkins Hill Road are expected to be minimal although a right-turn lane is recommended at the southern access to separate passenger vehicles and buses that will continue north.

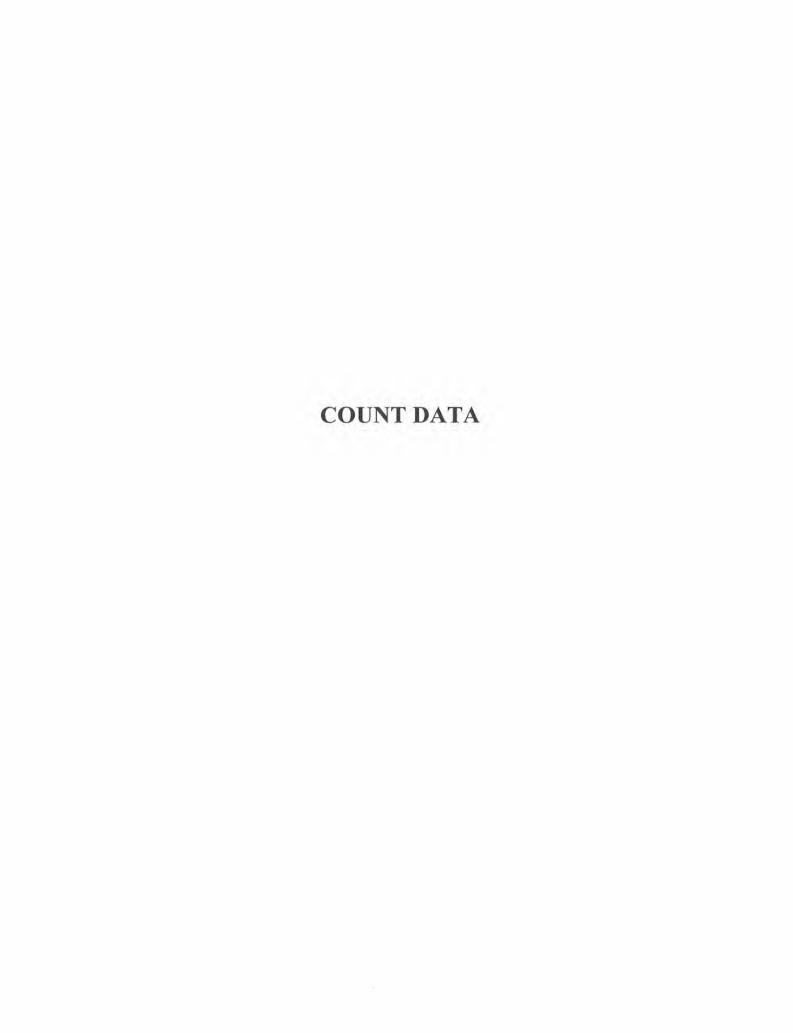
While the proposed extension of Duffield Road into the site would service some traffic oriented to/from the east (McClellanville), analyses indicate that the site can function acceptably without this connection. If this connection is provided, there may be improvements required for the US 17 at Duffield Road intersection as there is currently not a deceleration lane for US 17 in either direction.

b. LOS = Level-of-Service.

^{1.} For unsignalized intersections, Delay is representative of the critical movement.

APPENDIX

- Count Data
- Capacity Analyses



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File Name: US 17 @ Jenkins Hill Rd

Site Code : 00092619 Start Date : 09/26/2019

Page No :1

				Gı	roups Pri			Vehicles -	Heavy V	ehicles -	Buses						
		Jenkins 1				US	14.7	4						US			
		Southb			-	Westb				Northb				Eastb	ound		
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Int. Tot
07:00	0	0	1	0	0	124	1	0	0	0	0	0	0	66	0	1	1
07:15	0	0	2	0	0	141	0	0	0	0	0	0	0	78	0	0	2:
07:30	0	0	1	0	0	145	0	0	0	0	0	0	0	73	0	0	2
07:45	1	0	0	0	0	126	0	0	0	0	0	0	0	70	1	0	19
Total	1	0	4	0	0	536	1	0	0	0	0	0	0	287	1	1	8.
08:00	0	0	0	0	0	131	0	0	0	0	0	0	1	63	0	0	1 19
08:15	0	0	0	0	0	110	0	0	0	0	0	0	0	68	0	0	1
08:30	0	0	2	0	0	113	0	0	0	0	0	0	0	73	0	0	1
08:45	0	0	0	0	0	105	0	0	0	0	0	0	1	62	0	0	1
Total	0	0	2	0	0	459	0	0	0	0	0	0	2	266	0	0	7.
14:00	1	0	0	0	0	79	1	0	0	0	0	0	0	128	0	1	2
14:15	1	0	0	0	0	91	0	0	0	0	0	0	0	121	0	0	2
14:30	0	0	.0	0	0	118	0	0	0	0	0	0	2	146	1	0	2
14:45	0	0	0	0	0	90	1	0	0	0	0	0	1	152	0	0	2
Total	2	0	0	0	0	378	2	0	0	0	0	0	3	547	1	1	9
15:00	0	0	0	0	0	107	0	0	0	0	0	0	1	148	0	0	2
15 15	0	0	0	0	0	105	0	0	0	0	0	0	0	141	0	0	2
15.30	0	0	0	0	0	111	0	0	0	0	0	0	0	140	0	0	2
15:45	0	0	0	-0	0	84	0	0	0	0	0	0	0	170	0	0	2
Total	0	0	0	0	0	407	0	0	.0	0	0	0	- 1	599	0	0	10
16:00	0	0	1	0	0	91	0	0	0	0	0	0	0	151	0	0	2
16:15	0	0	1	0	0	98	0	0	0	0	0	0	1	176	0	0	2
16:30	0	0	0	0	0	69	0	0	0	0	0	0	0	142	0	0	2
16:45	0	0	0	0	0	76	1	0	0	0	0	0	0	122	0	0	1
Total	0	0	2	0	0	334	1	0	0	0	.0	0	1	591	0	0	9
17:00	0	0	2	0	0	91	1	0	0	0	0	0	0	140	0	0	2
17:15	1	0	1	0	0	87	0	0	0	0	0	0	0	134	0	0	2
17:30	0	0	0	0	0	63	1	0	0	0	0	0	0	123	0	0	1
17:45	0	0	0	0	0	85	1	0	0	0	0	0	0	118	0	0	2
Total	1	0	3	0	0	326	3	0	0	0	0	0	0	515	0	0	8
Grand Total	4	0	-11	0	0	2440	7	0	0	0	0	0	7	2805	2	2	52
Apprch %	26.7	0	73.3	0	0	99.7	0.3	0	0	0	0	0	0.2	99.6	0.1	0.1	1
Total %	0.1	0	0.2	0	0	46.2	0.1	0	0	0	0	0	0.1	53.1	0	0	
Passenger Vehicles	4	0	11	0	0	2316	7	0	0	0	0	0	7	2654	Ī	2	50
% Passenger Vehicles	100	0	100	0	0	94.9	100	0	0	0	0	0	100	94.6	50	100	94
Heavy Vehicles	0	0	0	0	0	100	0	0	0	0	0	0	0	131	1	0	2
% Heavy Vehicles	0	0	0	0	0	41	0	0	0	0	0	0	0	17	50	0	1

4.1

4.7

0.7

4.4

% Heavy Vehicles

Buses

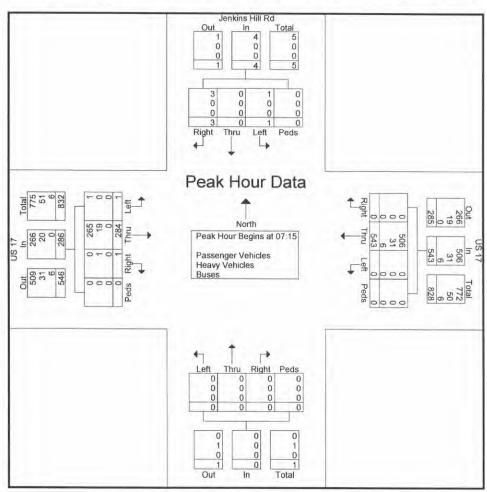
% Buses

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File Name: US 17 @ Jenkins Hill Rd

Site Code : 00092619 Start Date : 09/26/2019

			cins Hil uthbou				u	US 17 /estbou				N	orthbo					US 17			
a int			-	1				T						1				astbou	na	_	
Start Time	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Ana	alysis Fr	om 07:	00 to 0	8:45 - P	eak 1 of	1															
Peak Hour for	Entire I	ntersec	tion Be	gins at (07:15																
07:15	0	0	2	0	2	0	141	0	0	141	0	0	0	0	0	0	78	0	0	78	221
07:30	0	0	1	0	1	0	145	0	0	145	0	0	0	0	0	0	73	0	0	73	219
07:45	1	0	0	0	1	0	126	0	0	126	0	0	0	0	0	0	70	1	0	71	198
08:00	0	0	0	0	0	0	131	0	0	131	0	0	0	0	0	1	63	0	0	64	195
Total Volume	1	0	3	0	4	0	543	0	0	543	0	0	0	0	0	1	284	1	0	286	833
% App. Total	25	0	75	0		0	100	0	0		0	0	0	0	- 1	0.3	99.3	0.3	0	200	055
PHF	.250	.000	.375	.000	.500	.000	.936	.000	.000	.936	.000	.000	.000	.000	.000	.250	.910	.250	.000	.917	.942
Passenger Vehicles	r	ū	3	0	4	.0	506	0	0	506	0	0	0	0	Ġ.	ij.	265	0	0	266	776
Heavy Vehicles	0	0	0	0	0	0	31	0	0	31	0	0	0	0	0	0	19	1	0	20	51
% Heavy Vehicles	0	0	0	0	0	0	5.7	0	0	5.7	0	0	0	0	0	0	6.7	100	0	7.0	6.1
Buses	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	6
% Buses	0	0	0	0	0	0	1.1	0	0	1.1	0	0	0	0	0	0	0	0	0	0	0.7



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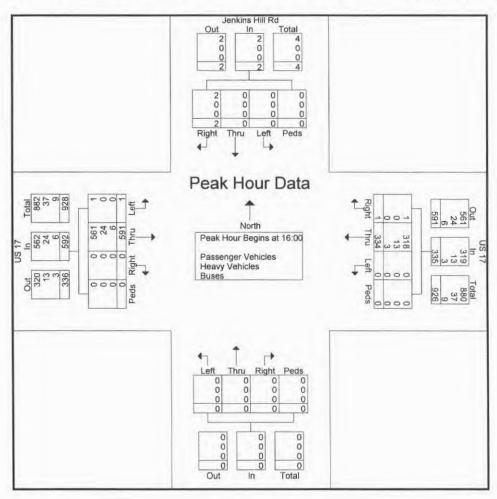
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File Name: US 17 @ Jenkins Hill Rd

Site Code : 00092619 Start Date : 09/26/2019

			ins Hil uthbou				V	US 17 estbou				N	orthbo	und			Е	US 17			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Ana	alysis Fi	rom 16:	00 to 1	7:45 - 1	Peak I of	1															
Peak Hour for	Entire I	ntersec	tion Be	gins at	16:00																
16:00	0	0	1	0	1	0	91	0	0	91	0	0	0	0	0.	0	151	0	0	151	243
16:15	0	0	1	0	1	0	98	0	0	98	0	0	0	0	0	1	176	0	0	177	276
16:30	0	0	0	0	0	0	69	0	0	69	0	0	0	0	0	0	142	0	0	142	211
16:45	0	0	0	0	0	0	76	1	0	77	0	0	0	0	0	0	122	0	0	122	199
Total Volume	0	0	2	.0	2	0	334	1	0	335	0	0	0.	0	0	1	591	0	0	592	929
% App. Total	0	0	100	0		0	99.7	0.3	0		0	0	0	0		0.2	99.8	0	0		
PHF	.000	.000	.500	.000	.500	.000	.852	.250	.000	.855	.000	.000	.000	.000	.000	.250	.839	.000	.000	.836	.841
Passenger Vehicles	0.	0	-2	.0	2	0	318	1	0	319	0	.0	0	0	0	1	561	0	.0	562	883
Heavy Vehicles	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	24	0	0	24	37
As Heavy Vehicles	0	0	0	0	0	0	3.9	0	0	3.9	0	0	0	0	0	0	4.1	0	0	4.1	4.0
Buses	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	6	0	0	6	9
% Buses	0	0	0	0	0	0	0.9	0	0	0.9	0	0	0	0	0	0	1.0	0	0	1.0	1.0



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File Name: US 17 @ Duffield Rd

Site Code :

Start Date : 09/19/2019

		Duffie				US Westb				North	aund			US			
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Eastb		Dode	in Tree
07:00	0	0	1	0	0	113	0	0	0	0	Night 0			Thru	Right	Peds	Int. Tota
07:15	0	0	0	0	0	139	0	0	0	0	0	0	0	63	0	0	177
07:30	0	0	0	0	0	140	0	0	0	0	0	0		76 72	0	0	216
07:45	0	0	0	0	0	131	0	0	0	0	0		0		0	0	212
Total	0	0	1	0	0	523	0	0	0	0	0	0	2	91	1	0	829 829
401004		0		0 1		020		0 1	U	O	U	O	2	JUZ	- 1	U	028
08:00	0	0	0	0	0	116	0	0	0	0	1	0	0	60	0	0	177
08:15	0	0	0	0	0	103	0	0	0	0	0	0	0	67	0	0	170
08:30	0	0	1	1	0	113	0	0	0	0	0	0	0	72	0	0	187
08:45	0	0	1	0	0	107	0	0	0	0	0	0	0	64	0	0	172
Total	0	0	2	1	0	439	0	0	0	0	1	0	0	263	0	0	706
14:00	0	0	2	0	0	82	1	0	0	0	0	0	1	130	0	0	216
14:15	0	0	0	0	0	92	0	0	0	0	0	0	0	122	0	0	214
14:30	1	0	1	0	0	114	2	0	0	0	0	0	2	145	0	0	26
14:45	1	0	0	0	0	94	0	0	0	0	0	0	1	151	0	0	24
Total	2	0	3	0	0	382	3	0	0	0	0	0	4	548	0	0	943
Connect I		-		-1		Varie		21				6.1					
15:00	0	0	0	0	0	109	0	0	0	0	0	0	0	150	0	0	25
15:15	0	0	0	0	0	104	0	0	0	0	0	0	0	136	1	0	24
15:30	0	0	0	0	0	107	1	0	0	0	0	0	1	139	0	0	248
15:45 Total	0	0	1	0	0	400	0	0	0	0	0	0	0	175	0	0	100
, otal				-		400		0.1	U	· ·	0	01	- 1	000	- 1	0	100
16:00	0	0	1	0	0	94	1	0	0	0	0	0	0	150	0	0	24
16:15	0	0	0	0	0	93	0	0	0	0	0	0	2	177	0	0	27
16:30	1	0	1	0	0	74	1	0	0	0	1	0	0	134	0	0	21:
16:45	0	0	0	0	0	71	0	0	0	0	0	0	0	120	0	0	19
Total	1	0	2	0	0	332	2	0	0	0	1	0	2	581	0	0	92
17:00	0	0	0	0	0	96	1	0	0	0	0	0	0	146	0	0	243
17:15	0	0	1	0	0	81	0	0	0	0	0	0	0	135	0	0	21
17:30	0	0	2	0	0	70	0	0	0	0	0	0	1	120	0	0	19:
17:45	0	0	0	0	0	77	0	0	0	0	0	0	0	118	0	0	19
Total	0	0	3	0	0	324	1	0	0	0	0	0	1	519	0	0	848
Grand Total	3	0	12	1	0	2400	7	0	0	0	2	0	10	2813	2	0	525
Apprch %	18.8	0	75	6.2	0	99.7	0.3	0	0	0	100	0	0.4	99.6	0.1	0	GEO
Total %	0.1	0	0.2	0	0	45.7	0.1	0	0	0	0	0	0.2	53.6	0	0	
Passenger Vehicles	3	0	12	1	0	2210	6	0	0	0	2	0	10	2612	2	0	485
% Passenger Vehicles	100	0	100	100	0	92.1	85.7	0	0	0	100	0	100	92.9	100	0	92.
Heavy Vehicles	0	0	0	0	0	166	1	0	0	0	0	0	0	180	0	0	34
% Heavy Vehicles	0	0	0	0	0	6.9	14.3	0	0	0	0	0	0	6.4	0	0	6.
Buses	0	0	0	0	0	24	0	0	0	0	0	0	0	21	0	0	4
% Buses	0	0	0	0	0	1	0	0	0	0	0	0	0	0.7	0	0	0.9

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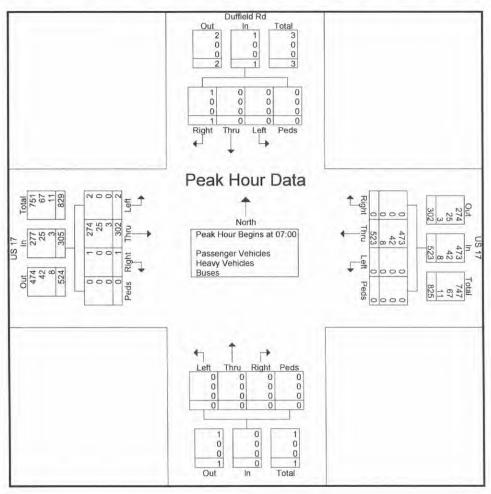
We can't say we're the Best, but you Can!

File Name: US 17 @ Duffield Rd

Site Code :

Start Date : 09/19/2019

		7	uffield outhbo				V	US 17 /estbou				N	orthbo	und			E	US 1			
Start Time	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour An	alysis	From (07:00 t	0 08:4	5 - Peak	1 of 1															
Peak Hour for	Entire	Inters	ection	Begins	at 07:0	0															
07:00	0	0	1	0	1	0	113	0	0	113	0	0	0	0	0	0	63	0	0	63	177
07:15	0	0	0	0	0	0	139	0	0	139	0	0	0	0	0	1	76	0	0	77	216
07:30	0	0	0	0	0	0	140	0	0	140	0	0	0	0	0	0	72	0	0	72	212
07:45	0	0	0	0	0	0	131	0	0	131	0	0	0	0	0	1	91	1	0	93	224
Total Volume	0	0	1	0	1	0	523	0	0	523	0	0	0	0	0	2	302	1	0	305	829
% App. Total	0	0	100	0		0	100	0	0		0	0	0	0		0.7	99	0.3	0		1,377
PHF	.000	.000	.250	.000	.250	.000	.934	.000	.000	.934	.000	.000	.000	.000	.000	.500	.830	.250	.000	.820	.925
Passenger Vehicles % Passenger Vehicles	0	0	3.	0	1	0	473	0	0	473	0	0	0	0	0	2	274	1	0	277	751
Heavy Vehicles	0	0	0	0	0	0	42	0	0	42	0	0	0	0	0	0	25	0	0	25	67
% Heavy Vehicles	0	0	0	0	0	0	8.0	0	0	8.0	0	0	0	0	0	0	8.3	0	0	8.2	8.1
Buses	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	3	0	0	3	11
% Buses	0	0	0	0	0	0	1.5	0	0	1.5	0	0	0	0	0	0	1.0	0	0	1.0	1.3



S HO RT CO UNTS, LLC 735 Maryland St Columbia, SC 29201

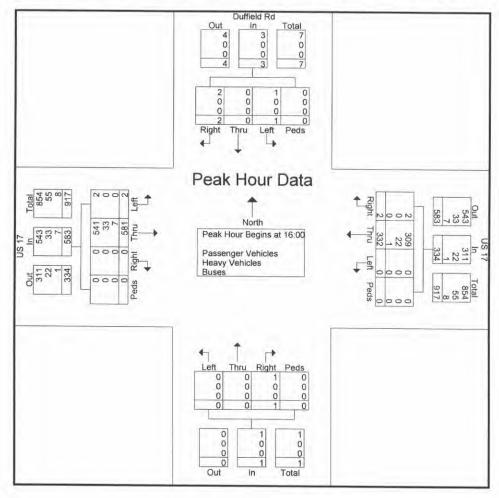
We can't say we're the Best, but you Can!

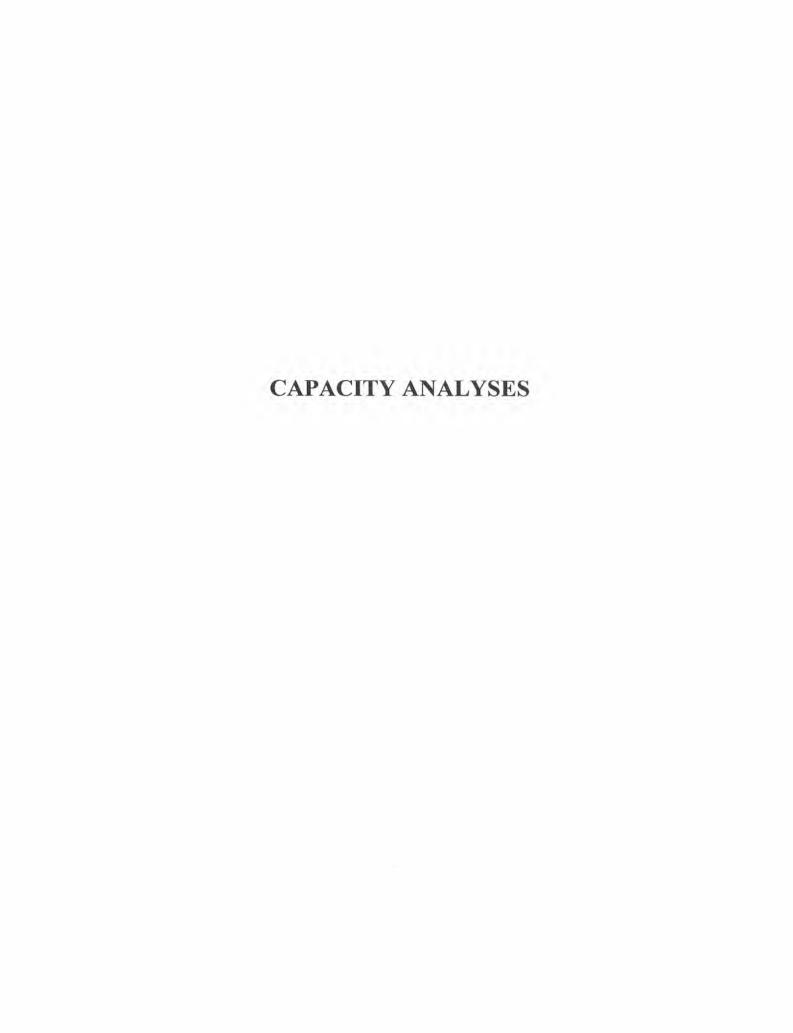
File Name: US 17 @ Duffield Rd

Site Code :

01 10 1	001101001
Start Date	: 09/19/201
D 11	_

			uffield outhbo				V	US 17				N	orthbo	und			F	US 17			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right	Peds	App Total	Left	Thru	Right		12.40	Int. Total
Peak Hour Ar	alysis	From	16:00 t	0 17:4	5 - Peak	1 of 1						11110	- mg	1 000	App rotal	LOIL	Tinu	rugite	reus	App Total	Int. Tota
Peak Hour for	Entire	Inters	ection	Begins	s at 16:0	0															
16:00	0	0	1	0	1	0	94	1	0	95	0	0	0	0	0	0	150	0	0	150	246
16:15	0	0	0	0	0	0	93	0	0	93	0	0	0	0	0	2	177	0	0	179	272
16:30	1	0	1	0	2	0	74	1	0	75	0	0	1	0	1	0	134	0	0	134	212
16:45	0	0	0	0	0	0	71	0	0	71	0	0	0	0	0	0	120	0	0	120	191
Total Volume	1	0	2	0	3	0	332	2	0	334	0	0	1	0	1	2	581	0	0	583	921
% App. Total	33.3	0	66.7	0		0	99.4	0.6	0		0	0	100	0	1	0.3	99.7	0	0	303	921
PHF	250	.000	.500	.000	.375	.000	.883	.500	.000	.879	.000	.000	.250	.000	.250	.250	.821	.000	.000	.814	.847
Passenger Vehicles % Passenger Vehicles	1	0	2	0	3	0	309	2	0	.311	0	0	1	0	1	2	541	0	0	543	858
Heavy Vehicles	0	0	0	0	0	0	22	0	0	22	0	0	0	0	0	0	33	0	0	33	55
% Heavy Vehicles	0	0	0	0	0	0	6.6	0	0	6.6	0	0	0	0	0	0	5.7	0	0	5.7	6.0
Buses	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	7	0	0	7	8
% Buses	0	0	0	0	0	0	0.3	0	0	0.3	0	0	0	0	0	0	1.2	0	0	1.2	0.9





			7.5		
0.1					
EBL	EBT	WBT	WBR	SBL	SBR
ACIDO CONTRACTOR AND ADDRESS OF THE PARTY OF					
<u>Walanamana ka </u>			0		3
-			and the same of th		3
	AND THE RESERVE OF THE PARTY OF	and the second	Lamatan Company		0
STATE OF THE PARTY OF			And the second second second		Stop
-			*******************************		None
- P	PORTON CONTRACTOR				- INONE
NAME AND ADDRESS OF THE PARTY O					
Carriering					
					-
				The second second second	92
					2
1	329	590	0	1	3
ajor1		//ajor2		Vinor2	
590	0	-	0	757	295
		2		590	-
-	-			167	-
4.14	-				6.94
-	-	-	-		-
	0.00				and the second
					3.32
					701
				THE RESERVE OF THE PARTY OF THE	- 101
	-	-			
				640	·
000	*	-		044	704
-	+		-		701
-	-	-			-
-	-	- 4	- " •		
-	-	-	•	845	-
EB	profession and	WB		SB	
	115				7-5
V		U			
			322	D	
	EOV	PART	Layer.	34000	001
			WBT		
					041
		-	•	-	0.007
	8.7	-		4	10.8
A CONTRACTOR OF THE PARTY OF					D
	Α	-		-	B 0
	EBL 1 1 0 Free - 200 # - 92 2 1 590 - 4.14 - 2.22 982 - 982	EBL EBT 1 303 1 303 0 0 Free Free - None 200 # - 0 92 92 2 2 1 329 ajor1 590 0 982 982 982	EBL EBT WBT 1 303 543 1 303 543 0 0 0 0 Free Free Free - None - 200 # - 0 0 - 0 0 92 92 92 2 2 2 1 329 590 aior1 Major2 590 0	EBL EBT WBT WBR 1 303 543 0 1 303 543 0 0 0 0 0 0 Free Free Free Free Free - None - None 200 0 0 0 0 - 92 92 92 92 2 2 2 2 2 1 329 590 0 ajor1 Major2 590 0 - 0 982 982 982 982 982	EBL EBT WBT WBR SBL *** *** *** 1 303 543 0 1 0 0 0 0 0 Free Free Free Free Stop - None - None - 200 - - 0 - 2 - 0 0 - 0 - 2 - 0 0 - 0 - 2

ntersection	. S					
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		414	44		W	
Traffic Vol, veh/h	2	302	542	0	0	1
Future Vol, veh/h	2	302	542	0	0	1
Conflicting Peds, #/hr	0	0	0.	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Market Street		None	Otop	None
Storage Length	-	NONG	-	HONG	0	NONC
Veh in Median Storage,		0	0		2	
Grade, %		0	0		0	
				- 00		
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2	328	589	0	0	1
Major/Minor M	ajor1	1	Major2		Minor2	
Conflicting Flow All	589	0	-	0	757	295
Stage 1	-	-			589	15-10 - 11
Stage 2	-	-	-	-	168	-
Critical Hdwy	4.14				6.84	6.94
Critical Hdwy Stg 1	-		-	-	5.84	-
Critical Hdwy Stg 2	20.02				5.84	31 32
Follow-up Hdwy	2.22	_		-	3.52	3.32
Pot Cap-1 Maneuver	982				344	701
Stage 1	-			-	517	-
Stage 2					844	
		HAT T	100	Arrest Ar	044	
Platoon blocked, %	000	•	2	•	040	704
Mov Cap-1 Maneuver	982	•			343	701
Mov Cap-2 Maneuver	-	-	-	-	476	-
Stage 1				-	516	
Stage 2	-	-	÷		844	-
HT. 1244 - 17					la r	
Approach	EB		WB		SB	i-kali
HCM Control Delay, s	0.1		0		10.1	1516
HCM LOS					В	
TOW LOO				-1116	4.50	
Minor Lane/Major Mymt	100	EBL	EBT	WBT	WER	SBLn1
						Control Control Control Control Control
Capacity (veh/h)		982			•	701
HCM Lane V/C Ratio		0.002	-	-		0.002
HCM Control Delay (s)		8.7	0	SE.		
HCM Lane LOS		Α	Α	7	-	В
HCM 95th %tile Q(veh)		. 0				0

Baseline

Intersection				542 J W	1 31.3	
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	44	1		W	
Traffic Vol, veh/h	1	601	407	0	0	0
Future Vol, veh/h	1	601	407	0	0	0
Conflicting Peds, #/hr	0	. 0	- 0	. 0	- 0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None	-	None) - -	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage,	# -	0	0		2	
Grade, %	-	0	0	-	0	
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	. 1	653	442	0	0	0
	lajor1		Major2		Minor2	
Conflicting Flow All	442	0		0	771	221
Stage 1				.	442	+
Stage 2	-	2	-	-	329	-
Critical Hdwy	4.14	-	- .	÷	6.84	6.94
Critical Hdwy Stg 1	-		-	-	5.84	-
Critical Hdwy Stg 2		-		3	5.84	J., 2
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1114				337	783
Stage 1		(%)	-	-	615	-
Stage 2		isens!		4. 1	701	10-18
Platoon blocked, %			-			specification and the second s
Mov Cap-1 Maneuver	1114	E		1	337	783
Mov Cap-2 Maneuver	-	-	-	4	517	-
Stage 1	- 2	÷	-		614	
Stage 2	-	-	14	-	701	-
Approach	EB		WB	15.1	SB	ATVE
HCM Control Delay, s	. 0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvm		EBL	EBT	WBT	WBR:	SBLn1
Capacity (veh/h)		1114		•	-	
HCM Lane V/C Ratio		0.001	-	-	-	
HCM Control Delay (s)	- 14	8.2		•		0
HCM Lane LOS		Α	-	-2	-	Α
HCM 95th %tile Q(veh)		0		1 3 3 4 P	30 U.S.	25.30

Intersection	is a		(4)			35, 41				
nt Delay, s/veh	0							18		
Movement	EBL	EBT	WBT	WBR	SBL	SBR			a viita	
Lane Configurations		414	44		W					
Traffic Vol, veh/h	1	600	406	1	0	1			5, 1	
Future Vol, veh/h	1	600	406	1	0	1				
Conflicting Peds, #/hr	0	- 0	0	0	0	0		f. 1 220		
Sign Control	Free	Free	Free	Free	Stop	Stop				
RT Channelized		None	Commence of the Commence of	None	-	Anna Marie Control Consultation (CCC)	Constituent in a	8-1/16 S		
Storage Length	-	-		-	0	-				
Veh in Median Storage,		0	0		2		225367-12			
Grade, %	-	0	0	-	0	-				
Peak Hour Factor	92	92	92	92	92	92				
Heavy Vehicles, %	2	2	2	2	2	2				
Mymt Flow	1	652	441	-1	0	1				
WINIT LIOM		002	441	-1	U	- F-				
	lajor1		Major2	1	Minor2					
Conflicting Flow All	442	0		0	770	221				
Stage 1					442					7 To Te = 2 To Te = 2
Stage 2	-	-	-	-	328	-				
Critical Hdwy	4.14				6.84	6.94				
Critical Hdwy Stg 1		-	-	-	5.84	-				
Critical Hdwy Stg 2	-			7	5.84					ration was
Follow-up Hdwy	2.22	-	-	-	3.52	3.32				a strong and a summer of the strong and the strong
Pot Cap-1 Maneuver	1114	. 4	- 5.		337	783		1256		
Stage 1	-	(-)	-	-	615	-				
Stage 2	-	1 = 4	·	-	702		The second second	15 ,		
Platoon blocked, %		-	-	-				***************************************		
Mov Cap-1 Maneuver	1114	- 4			337	783				
Mov Cap-2 Maneuver	-	_		-	518	-	Z			
Stage 1	-11				614					1 THE RESIDENCE THE RESIDENCE
Stage 2	-	-		-	702					
Olage 2		1			102					
Approach	EB		WB		SB					
HCM Control Delay, s	0	Other to the	0	TEL	9.6			6888		
HCM LOS					A		To a Sometiment of the second Source			
Minor Long/Mains M.		COL	EDT	AMOT	Won	ODI =4				
Minor Lane/Major Mvmi Capacity (veh/h)		1114		WBT	WBR	783		- The state of		
HCM Lane V/C Ratio		0.001								
		ASSESSMENT AND DESCRIPTION OF THE PARTY OF T	0	-	-					
HCM Control Delay (s)		8.2	0	•		9.6				
HCM Lane LOS		A	Α	-	-	A				
HCM 95th %tile Q(veh)		0	•	•	-	0				

Lane Configurations Traffic Vol, veh/h Future Vol, veh/h	0 BL 1	EBT **	WBT			
Lane Configurations Traffic Vol, veh/h Future Vol, veh/h	1		WBT			
Traffic Vol, veh/h Future Vol, veh/h	1	44		WBR	SBL	SBR
Traffic Vol, veh/h Future Vol, veh/h	1		朴		W	
		591	334	1	0	2
	1	591	334	1	0	2
Conflicting Peds, #/hr	0	0	0	0	_ 0	-0
	ree	Free	Free	Free	Stop	Stop
RT Channelized		None		None		None
Storage Length	0	-	-	-	0	-
Veh in Median Storage, #		0	0	- F.	2	2.0
Grade, %	-	0	0	-	0	-
	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	704	398	1	. 0	2
Major/Minor Major	ort	1	Major2	A STATE	Ainor2	
	399	0	-	0	753	200
Stage 1					399	
Stage 2	-	-	-	-	354	-
	.14				6.84	6.94
Critical Hdwy Stg 1		-	-	-	5.84	-
Critical Hdwy Stg 2		: . .	- 5		5.84	
	.22	-	-	÷	3.52	3.32
Pot Cap-1 Maneuver 11	156	:: :		4	346	808
Stage 1		-	-	-	647	- 4
Stage 2			- 4		681	
Platoon blocked, %		-	-	-		
	156		-		346	808
Mov Cap-2 Maneuver	-	-	-	-	528	-
Stage 1	-			÷	646	- :
Stage 2	-	-	-	-	681	-
	a et.					
Approach	E8		WB	The state of the s	SB	
HCM Control Delay, s	0		0		9.5	7 5 70
HCM LOS					Α	
					jų - 3	(= 1 = 16
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1156	-			808
HCM Lane V/C Ratio		0.001	-	-	-	0.003
HCM Control Delay (s)		8.1		-		9.5
HCM Lane LOS		Α	-	-	-	Α
HCM 95th %tile Q(veh)		0				0

Baseline Synchro 10 Report Page 1

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		44	† 1>		N	
Traffic Vol, veh/h	2	589	333	2	1	2
Future Vol, veh/h	2	589	333	2	1	2
Conflicting Peds, #/hr	0	0	0	0	0	0
The second secon	Free	Free	Free	Free	Stop	Stop
RT Channelized	7. E.	None				None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0		2	3.34
Grade, %	-	0	0	-	0	/-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2	693	392	2	1	2
D2000 10 10 10 10 10 10 10 10 10 10 10 10		000000000000000000000000000000000000000				
Major/Minor M	ajor1	Section 1	Major2	Same of	Minor2	be Trevelati
Conflicting Flow All	394	0	-	0	744	197
Stage 1	334	U	-	5 - 4	393	101
Stage 2	_		-		351	
	4.14	4			6.84	6.94
Critical Hdwy Stg 1	- 17		-	-	5.84	0.04
Critical Hdwy Stg 2					5.84	
Follow-up Hdwy	2.22		-	-	3.52	3.32
	1161				350	811
Stage 1	-				651	011
Stage 2					684	
					004	
Platoon blocked, %	1161		-	-	240	811
Section 1997 Annual Control of the C					349	
Mov Cap-2 Maneuver	-	-	-	-	531	-
Stage 1		3.5		Torch out a	649	*
Stage 2	-			-	684	-
Approach	EB		WB	The same of	SB	
HCM Control Delay, s	0		0		10.2	
HCM LOS					В	
				C.		
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1161	In left 1		TIDIT	Name of Street
HCM Lane V/C Ratio		0.002	-	-		0.005
HCM Control Delay (s)		8.1	0			10.2
HCM Lane LOS		Α	A	_	-	10,2 B
HCM 95th %tile Q(veh)		0				0
TOM DOUT TOUG SELVEN)		U			*	U

Intersection					175 25					O NEW				
Int Delay, s/veh	0.1													
Movement	EBL	EBT	WBT	WBR	SBL	SBR	10 10 30					1004	15.05	
Lane Configurations	4	44	1		NA.									
Traffic Vol, veh/h	1	303	543	0	1	3			17-5-52					
Future Vol, veh/h	1	303	543	0	1	3								
Conflicting Peds, #/hr	0	0	0	0	0	0				. 347 2	0.000			
Sign Control	Free	Free	Free	Free	Stop	Stop							W	
RT Channelized		None		TO AND MANAGEMENT OF		CONTRACTOR OF THE PARTY OF								
Storage Length	200	_		-	0	-								
Veh in Median Storage		0	0	-1	2				- 50					
Grade, %	-	0	0	-	0									
Peak Hour Factor	92	92	92	92	92	92							E 30 E	10.5
Heavy Vehicles, %	2	2	2	2	2	2			***				n	
Mymt Flow	1	408	732	0	1	4			- 9,					
MANUEL I NAME		700	104	-										
Major/Minor 1	viajor1		Major2		Vinor2					1188	100			
Conflicting Flow All	732	0	A CONTRACTOR OF THE PARTY OF TH	0	938	366	- Attaches to be designed	the contract of the second					named in second	
Stage 1				2	732	000								
Stage 2		-		-	206	-								
Critical Hdwy	4.14				6.84	6.94								
Critical Hdwy Stg 1	7.17	_	-	-	5.84	0.04								
Critical Hdwy Stg 2					5.84	1 5 4 1 s								
Follow-up Hdwy	2.22			_	3.52	3.32								19.5
Pot Cap-1 Maneuver	868				263	631	(200)					- 12 -	215	
Stage 1	000				437	001					- norman t			
Stage 2				- 	808								TOTAL STEEL	
Platoon blocked, %		-	_		000						E 54 6-5			SELE.
Mov Cap-1 Maneuver	868			-	762	631								
			-	•	263									2
Mov Cap-2 Maneuver	-	-	-	-	403	-								
Stage 1				_ *	437						1950		==-=%	
Stage 2		-		-	808								3	
Approach	.E8		WB		SB			May					7.5 2/5 5	orgental.
HCM Control Delay, s	0		0		11.6								10.23	
HCM LOS	U		U	Ne's	В									
TICIVI LOS	J.E. S.				D									10000
Minor Lane/Major Mvm	t ·	EBL	EBT	WBT	WBR	SBLn1			sonable	Last-				
Capacity (veh/h)		868	TEL.	75	-		5 25 15							
HCM Lane V/C Ratio		0.002	-		-	0.01	22-5							7 6 10
HCM Control Delay (s)		9.2				11.6				Residen				N Best
HCM Lane LOS		A				В				1.3.05				
HCM 95th %tile Q(veh)	315	0	-	-	-	0								7762
HOW BOTH WITE CALACULA		U			•	- 0	- Specifical Co						92 - S	

Intersection				8.8 . <u></u> .	1.152	
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		414	474		W	
Traffic Vol, veh/h	2	302	542	0	0	1
Future Vol, veh/h	2	302	542	0	0	1
Conflicting Peds, #/hr	0	0	0	0	0	Ó
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	. 100		-	None	*	and the second second section is
Storage Length		-	-	-	0	THOME
Veh in Median Storage	# -	0	0	4	2	
Grade, %	, er -	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	3	407	731	0	0	1
WWINE CIDW	3	401	131	U	U	
	Vajor1		Vajor2		Vinor2	
Conflicting Flow All	731	.0	-	0	941	366
Stage 1	•	-		•	731	
Stage 2	-	-	-	-	210	-
Critical Hdwy	4.14	3 * /	5 m		6.84	6.94
Critical Hdwy Stg 1	-	-	-	÷	5.84	
Critical Hdwy Stg 2	-	·	-		5.84	1
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	869	(E-18)			262	631
Stage 1	-	•	-		437	-
Stage 2				4	805	
Platoon blocked, %		- 4	_	_		
Mov Cap-1 Maneuver	869	-	•		261	631
Mov Cap-2 Maneuver	-	-	_	-	401	-
Stage 1					435	
Stage 2					805	_
Oldgo E					000	-
			16.00			
Approach	EB		WB	a kale	SB	
HCM Control Delay, s	0.1		0		10.7	
HCM LOS					В	
Minor Lane/Major Mvm	la ja	EBL	EBT	WBT	WBR	SBLn1
INITIOL CONCURRENCES INTALLE			4			631
		369				
Capacity (veh/h)		0.003			4	0.002
Capacity (veh/h) HCM Lane V/C Ratio		0.003	-	-	and the second	0.002
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		0.003 9.2	о О		-	10.7
Capacity (veh/h) HCM Lane V/C Ratio		0.003	0 A		and the second	

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	1	44		W	
Traffic Vol, veh/h	1	601	407	0	0	0
Future Vol, veh/h	1	601	407	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None		None		None
Storage Length	200	-	-	-	0	-
Veh in Median Storage	,# -	0	0		2	4
Grade, %	-	0	0	-	0	1-1
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1	810	549	0	0	0
Major/Minor	Vajor1	- 1	Major2	35 1	Vinor2	
Conflicting Flow All	549	0	-	0	956	275
Stage 1		-			549	
Stage 2	-	-			407	-
Critical Hdwy	4.14				6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2				-	SALAN AND RESIDENCE OF THE PERSON	
Follow-up Hdwy	2.22	(-)			3.52	3.32
Pot Cap-1 Maneuver	1017	35. T.			256	722
Stage 1	-	-	-	-	542	-
Stage 2			-		641	
Platoon blocked, %		- 2	-	-		
Mov Cap-1 Maneuver	1017				256	722
Mov Cap-2 Maneuver	-		-	-	448	-
Stage 1			- 4		541	
Stage 2	-		_	-	641	
					311	
Approach	EB	ai sa	WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS			The Court of the C		A	
		7 - 4				744-20
Minor Lane/Major Mym	t Mari	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1133	1017				
HCM Lane V/C Ratio		0.001	-		4.00	
HCM Control Delay (s)		8.5				0
HCM Lane LOS		Α.		-	_	A
HCM 95th %tile Q(veh)	1	0			-	A
THOM SOUT TOUR CLASH		U	234			7. 5

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		44	†		W	
Traffic Vol, veh/h	1	600	406	1	0	- 1
Future Vol, veh/h	1	600	406	1	0	1
Conflicting Peds, #/hr	0	000	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	1100		and the same of th	None	Olop	Samuel Contract
Storage Length		NONG		HOHE	0	IVOITE
Veh in Median Storage,	#	0	0		2	
Grade, %						
	- 00	0	0	- 00	0	- 00
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1	809	547	1	0	1.
Major/Minor V	lajor1	400	vlajor2	1	Vinor2	5/5/5
Conflicting Flow All	548	0		0	955	274
Stage 1	-	-			548	-
Stage 2	-	-	-	-	407	-
Critical Hdwy	4.14	-	-		6.84	6.94
Critical Hdwy Stg 1	_	_	_	-	5.84	-
Critical Hdwy Stg 2					5.84	
Follow-up Hdwy	2.22				3.52	3.32
Pot Cap-1 Maneuver	1018		-	-		724
The state of the s		-	•		256	
Stage 1	-	-	-	-	543	-
Stage 2	- -			-	641	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1018				255	724
Mov Cap-2 Maneuver	-	-		-	449	-
Stage 1				-	542	
Stage 2		-	0-	-	641	•
and experience of the resolution					100	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		10	
HCM LOS	U		U		В	
TIOW LOO					В	
Minor Lane/Major Mymt	31.	EBL	EBT	WBT	WBR	SBI n1
Capacity (veh/h)		1018	LDI	11621	CONTRACTOR	CONTRACTOR AND INCIDENCE OF
			•	-		724
HCM Lane V/C Ratio		0.001	-	-		0.002
HCM Control Delay (s)		8.5	. 0		•	10
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh)		0		-	-	0

Intersection							The said				1375			
nt Delay, s/veh	0													
Movement	EBL	EBT	WBT	WBR	SBL	SBR		2 124		71			: 7	
Lane Configurations	7	*	1		N									
Traffic Vol, veh/h	1	591	334	1	0	2					., 5 3			
Future Vol, veh/h	1	591	334	1	0	2							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Conflicting Peds, #/hr	0	0	0	0	0	0	1						= 1 20	1 74.
Sign Control	Free	Free	Free	Free	Stop	Stop								
RT Channelized		None		None		None						ina.		_ = _ = V .
Storage Length	0	-	-	-	0	-								
Veh in Median Storage,	# -	0	0	76	2	- 2					- 10			
Grade, %		0	0	-	0	-								
Peak Hour Factor	84	84	84	84	84	84), -= <u>-</u> <u>-</u>			1		212.3		4 - 1
Heavy Vehicles, %	2	2	2	2	2	2								
Mvmt Flow	1	872	493	1	0	3								- E
Major/Minor A	Najor1	1/4.	Vajor2	(1)	Minor2								transfer you	7.70
Conflicting Flow All	494	0	-	0	932	247								
Stage 1	-	-		5	494				3 3				17-54	en en
Stage 2	-	-	*	-	438	-								
Critical Hdwy	4.14				6.84	6.94								
Critical Hdwy Stg 1	-	-	-		5.84	1,-								
Critical Hdwy Stg 2					5.84				1 1					- 1
Follow-up Hdwy	2.22		-		3.52	3.32								
Pot Cap-1 Maneuver	1066			-	265	753						5		
Stage 1	-	-	-	-	579	-								
Stage 2		3	anne -		618									
Platoon blocked, %		-	-											
Mov Cap-1 Maneuver	1066			. 4	265	753								151 -
Mov Cap-2 Maneuver	-	-	-	-	461	-								
Stage 1	-			<u> </u>	578	100		5101 5						45
Stage 2	-	-	-		618	-								
Short State of the						-17,-1				2.0				
Approach	EB		WB		SB		541	10 20						
HCM Control Delay, s	0		0	40 E	9.8	Year and			F 57		1		7.4	
HCM LOS					Α									
	And		t Fermi			de la		1	ist.				- 100 x	
Minor Lane/Major Mvm	t di	EBL	EBT	WBT	WBR	SBLn1	4-3	£						
Capacity (veh/h)		1066		152	and the second second	753								
HCM Lane V/C Ratio		0.001	-	-		0.004								
HCM Control Delay (s)	No.	8.4	10.8			9.8		. 4	7, 2	20				
HCM Lane LOS		Α	-		-	Α			**					
HCM 95th %tile Q(veh)	1 31 3	0				0								1.1

Baseline

Intersection				6613			
Int Delay, s/veh	0						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		414	1		W		
Traffic Vol, veh/h	2	589	333	2	1	2	Market Commence of the Commenc
Future Vol, veh/h	2	589	333	2	1	2	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized		N. Commercial Commerci		None		DESCRIPTION OF THE PROPERTY OF	A GREEK STATE OF THE STATE OF T
Storage Length	-				0	-	
Veh in Median Storage,	# -	0	. 0		2		
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	85	85	85	85	85	85	
Heavy Vehicles, %	2	2	2	2	2	2	
Mymt Flow	3	859	486	3	1	3	
WINITE FILM	V	000	400	3	1	. 0	
Major/Minor A	Najor1	1 (1)	Vlajor2		vlinor2	- 1	
Conflicting Flow All	489	0	-	0	924	245	
Stage 1	-				488		
Stage 2		-	-	-	436	-	
Critical Hdwy	4.14		25.54		6.84	6.94	
Critical Hdwy Stg 1	-		-	-	5.84	-	
Critical Hdwy Stg 2		100			5.84	100 S.	
Follow-up Hdwy	2.22	-	_	-	3.52	3.32	
Pot Cap-1 Maneuver	1070	100 mg		-	268	755	
Stage 1	-	_			583	-	
Stage 2					619	5.5-5. 4	
Platoon blocked, %		4	_	-	010	S1531575	The second secon
Mov Cap-1 Maneuver	1070				267	755	
Mov Cap-1 Maneuver		-			462	100	
Stage 1	-	2	-	-	580		
The second secon							Alternative to the state of the
Stage 2	•	•	•		619	•	
Approach	E8:		WB	la l	SB		
HCM Control Delay, s	0		0		10.8		
HCM LOS	**************************************				В		
				i jest		Eigen.	
Minor Lane/Major Mym		EBL	EBT	WBT		SBLn1	nder the state of the second s
Capacity (veh/h)		1070	. ==			623	
HCM Lane V/C Ratio		0.003		-	-		
HCM Control Delay (s)		8.4	0				
HCM Lane LOS		Α	Α	-	-	В	
HCM 95th %file Q(veh)		0		-		0	

Intersection							
Int Delay, s/veh	4						
Movement	EBL	EBT		WBR	SBL	SBR	
Lane Configurations	7	1	1		NA.		
Traffic Vol, veh/h	98	511	658	13	29	128	
Future Vol., veh/h	98	511	658	13	29	128	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized		ATTENDED TO A STATE OF THE PARTY OF THE PART		None			
Storage Length	200	-	-	-	0	-	
Veh in Median Storage,		0	0		2		
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	60	92	92	60	60	60	
Heavy Vehicles, %	2	2	2	2	2	2	
Mymt Flow	163	555	715	22	48	213	
	,					2.19	
	tajor1		Vajor2	3-11	Minor2		
Conflicting Flow All	737	0		0	1330	369	
Stage 1		(726	-14	
Stage 2	-	-		-	604	-	
Critical Hdwy	4:14	i i i i i i i i i i i i i i i i i i i		-	6.84	6.94	
Critical Hdwy Stg 1	-	-	-	-	5.84	-	
Critical Hdwy Stg 2		-		-	5.84	-	
Follow-up Hdwy	2.22	-	-	-	3.52	3.32	
Pot Cap-1 Maneuver	865	A	-		146	628	
Stage 1	-	-		-	440	-	
Stage 2				4	508	de la	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	865	. Sec. 14	-		119	628	
Mov Cap-2 Maneuver		1.5	-	-	260	-	
Stage 1				-	357		
Stage 2	-	-	-	-	508	-	
Approach	EB		WB	F.1971	SB		
HCM Control Delay, s	2.3	7.2	0		20		
HCM LOS					С		
Minor Lane/Major Mymt	ary	EBL	EBT	WBT	WPD	SBLn1	
Capacity (veh/h)		865	ED1		TYDIN		
HCM Lane V/C Ratio		0.189				and the conference	A Company of the Comp
the state of the s			-	•			
HCM Leng LOS		10.1		•	ica 🕏	20	
HCM Lane LOS		В	-	-	-	C	
HCM 95th %tile Q(veh)		0.7	•	E	-	3.	

Intersection		e de la				14 33
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		414	† †>		*	
Traffic Vol, veh/h	2		668	38	4	1
Future Vol, veh/h	2	415	668	38	4	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	1100	STORY MADE TO COME	and the second second second	None	Otop -	CONTRACTOR OF STREET
Storage Length		-	-	-	0	-
Veh in Median Storage,	# -	0	0		2	
Grade, %	n	0	0	-	0	
Peak Hour Factor	92	92	92	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2	451	726	63	7	2
MANUEL LION	4	401	120	00	1	4
10.4	. 1					
	lajor1		Major2		Vinor2	
Conflicting Flow All	789	0	-	0	988	395
Stage 1					758	
Stage 2	-	-	-		230	-
Critical Hdwy	4.14	*	<u> </u>		6.84	6.94
Critical Hdwy Stg 1	-	7	-	-	5.84	-
Critical Hdwy Stg 2	5 5		•	are a 💺	5.84	13 /14
Follow-up Hdwy	2.22	4	-	-	3.52	3.32
Pot Cap-1 Maneuver	827				244	604
Stage 1		-	-	-	423	-
Stage 2		E	-		786	-
Platoon blocked, %			-	-		
Mov Cap-1 Maneuver	827	-		- 4	243	604
Mov Cap-2 Maneuver	-	-	-	-	388	-
Stage 1			3.0		422	-
Stage 2	-	-	-	-	786	-
		333.				
• 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	part (mg		14.00			-((
Approach	EB.		WB		SB	
HCM Control Delay, s	0	rada, L	0		13.8	25
HCM LOS					В	
建 年 美型 上海 医二	15.4		I			
Minor Lane/Major Mymt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		827		1		418
HCM Lane V/C Ratio		0.003	-	-	-	0.02
HCM Control Delay (s)		9.4	0		-	13.8
HCM Lane LOS		Α	Α	-		В
HCM 95th %tile Q(veh)		0	-		2	0.1

Intersection		4470			. Yel			建筑在一个大大大
Int Delay, s/veh	2.5							
Movement	EBL	EBT	WBT	WBR	SBL	SBR		
Lane Configurations	4	^	44	7	7	7		
Traffic Vol, veh/h	135	405	621	48	13	50		
Future Vol, veh/h	135	405	621	48	13	50		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	ALLEGO MANAGEMENT DE LA CONTRACTOR DE LA	None	-	AND DESCRIPTION OF THE PERSON				
Storage Length	200	-	÷	200	0	0		
Veh in Median Storage,		0	0		2			
Grade, %	-	0	0		0			
Peak Hour Factor	60	92	92	60	60	60		
Heavy Vehicles, %	2	2	2	2	2	2		
Mymt Flow	225	440	675	80	22	83		
m.m., i.e.		1 10	0,0					
Major/Minor N	Aajor1	4	Major2		vlinor2			政治主义的对象。
Conflicting Flow All	755	0	*	0	1345	338		
Stage 1		7.0	/ •		675			
Stage 2		-	-	-	670	-		
Critical Hdwy	4.14	-		inal jun g	6.84	6.94		real of the second of the second
Critical Hdwy Stg 1		-	-	-	5.84			
Critical Hdwy Stg 2				1	5.84			
Follow-up Hdwy	2.22	-	-	-	3.52	3.32		
Pot Cap-1 Maneuver	851				143	658		
Stage 1	-	-	-	-	467	-		
Stage 2					470			
Platoon blocked, %	A separate s	-	-					ora di musico di manana
Mov Cap-1 Maneuver	851	4	¥	-	105	658		
Mov Cap-2 Maneuver	_	-			209	-		
Stage 1	-	(e)		-	344			
Stage 2	-	-	_	_	470	-		
2 de la 1900 de la 190		li Mariana di			-,,,			
Approach	EB		WB		SB	14 A 3		
HCM Control Delay, s	3.6		- 0		14			
HCM LOS					В			
March and the state of the stat		CDI		LEPTO	IA COLO	oni -		
Minor Lane/Major Mvm		EBL	EBT	MRI		SBLn1		
Capacity (veh/h)		851	•			209	658	Company of the Compan
HCM Lane V/C Ratio		0.264	-	-	-	0.104		
HCM Control Delay (s)		10.7				24.2	11,3	
HCM Lane LOS		В	•		-	С	В	
HCM 95th %tile Q(veh)		1.1	·			0.3	0.4	

Intersection			1 218			all.	
nt Delay, s/veh	5.7						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	The state of the s
Lane Configurations	M		10			4	
Traffic Vol, veh/h	142	0	- 11	100	0	15	
Future Vol, veh/h	142	0	11	100	0	15	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized		None		STATE AND DESCRIPTION		None	
Storage Length	0	-		-		-	
Veh in Median Storage			0	- 4		0	
Grade, %	0	-	0	-	-	0	
Peak Hour Factor	60	60	60	60	60	60	
Heavy Vehicles, %	2	2	2	2	2	2	
Mymt Flow	237	0	18	167	0	25	
342							
Major/Minor	Minort		Vlajor1		Major2		
Conflicting Flow All	127	102	0	0	185	0	
Stage 1	102		- N.		200		
Stage 2	25	-		-			
Critical Hdwy	6.42	6.22		-	4.12	· · · · · · · · · · · · · · · · · · ·	
Critical Hdwy Stg 1	5.42	-	4	-	-	-	
Critical Hdwy Stg 2	5.42	- 34	*	-	- 1		
Follow-up Hdwy	3.518	3.318		-	2.218	-	
Pot Cap-1 Maneuver	868	953			1390		
Stage 1	922	-		-	-	-	
Stage 2	998				3.4		
Platoon blocked, %			-	-			
Mov Cap-1 Maneuver	868	953		9 .	1390		
Mov Cap-2 Maneuver	868	-	-	-	-	-	
Stage 1	922	÷					
Stage 2	998			-	-	-	
				,			
Approach	WB	aparati Majarida	NB	1-25	SB		
HCM Control Delay, s	10.7		0		0		
HCM LOS	В						
Minor Lane/Major Mym	il en	NBT		WBLn1	SBL	SBT	
Capacity (veh/h)		•	•	Section Section 2015	1390		
HCM Lane V/C Ratio		•		0.273	-	-	
HCM Control Delay (s)				1.001.1	0		
HCM Lane LOS		-	-	В	A	-	
HCM 95th %tile Q(veh))	. *		1,1	. 0	w.	· · · · · · · · · · · · · · · · · · ·

Intersection			14 7		17 T				
Int Delay, s/veh	3.3								
Movement	WBL.	WBR	NBT	NBR	SBL	SBT			
Lane Configurations	A		1			4			
Traffic Vol, veh/h	10	0	1	10	. 0	5			And the second s
Future Vol, veh/h	10	0	1	10	0	5			To the second se
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Stop	Stop	Free	Free	Free	Free			
RT Channelized	•	200.225/2006/2006/2006		CALCO STATE	1100	None			
Storage Length	0	-		-	-	-			
Veh in Median Storage			0			0			
Grade, %	0	-	0	-		0			
Peak Hour Factor	60	60	60	60	60	60			
Heavy Vehicles, %	2	2	2	2	2	2	Arrento management and an arrent and a second a second and a second an		
Mymt Flow	17	0	2	17	0	8			
maner lone	1.1	V		11	V	Ų.			
Major/Minor	Minor1	1 5 A	Major1		Major2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Conflicting Flow All	19	11	0	0	19	0			
Stage 1	- 11								
Stage 2	8	-	-	-		-			
Critical Hdwy	6.42	6.22		eka Sik	4.12				
Critical Hdwy Stg 1	5.42	-	-	-	-	i A			
Critical Hdwy Stg 2	5.42		-	i					
Follow-up Hdwy		3.318	-	-	2.218				
Pot Cap-1 Maneuver	998	1070	-	SALAR SA	1597				
Stage 1	1012	-	~	-	-	-			
Stage 2	1015	-							
Platoon blocked, %			-						
Mov Cap-1 Maneuver	998	1070		4	1597				
Mov Cap-2 Maneuver	998	-		-	-	-			Manager Territoria
Stage 1	1012	7 12							
Stage 2	1015	-	-	-					
Olago 2	1010	Sign 7				Lines it			
Approach	WB		NB		SB		er en		
HCM Control Delay, s	8.7	34	0		0	- 7.5			
HCM LOS	Α								
	a.a.y				1			Like Fred	
Minor Lane/Major Mvm	1	NBT	NBRV	NBLn1	SBL	SBT			The second second
Capacity (veh/h)				998	1597	2.4			
HCM Lane V/C Ratio		-	-	0.017	-	-			
HCM Control Delay (s)			10	8.7	0	-, ili, ,• :			
HCM Lane LOS		-	-	Α	A	-			
HCM 95th %tile Q(veh)				0.1	0				

Intersection		- 000					
Int Delay, s/veh	3.2						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	7	^	1		14		
Traffic Vol, veh/h	52	811	553	- 6	44	119	
Future Vol, veh/h	52	811	553	6	44	119	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS	MARKET SECTION AND ADDRESS OF THE PARTY OF T	None	Commercial Control of Control	None	
Storage Length	200	-	-	-	0	-	Management of the second of th
Veh in Median Storage,		0	0	-	2		
Grade, %	-	0	0	_	0	-	
Peak Hour Factor	60	92	92	60	60	60	reproduced the control of the contro
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	87	882	601	10	73	198	
			MICH AND THE PERSON				
Major/Minor N	lajort		Major2		vinor2	-,20	
Conflicting Flow All	611	0	-		1221	306	
Stage 1		-		-	606		
Stage 2	-	-	-	-	615	-	
Critical Hdwy	4.14	100			6.84	6.94	
Critical Hdwy Stg 1	-	-	-	-	5.84	-	
Critical Hdwy Stg 2				- 12 mg	5.84	Section.	
Follow-up Hdwy	2.22	-	-	-	3.52	3.32	
Pot Cap-1 Maneuver	964	1 2	3. È		172	690	
Stage 1	-	-	-	-	507	-	er e
Stage 2	1	-	336 F		502	12 - 14.	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	964			-	157	690	
Mov Cap-2 Maneuver	-	-	-	-	325	-	
Stage 1		- 4		3.3	461		
Stage 2	-	-	-	-	502	-	
Carrier Control			57-1. I	520	3		
Approach	E8		WB		88		
HCM Control Delay, s	0.8		0		18.8		
HCM LOS					C		3 00 Mark 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1	
Capacity (veh/h)	-7	964		- T. X		529	
HCM Lane V/C Ratio		0.09	-	-	-	0.514	
HCM Control Delay (s)	- = 7	9,1			-	18.8	
HCM Lane LOS		Α	-	-	-	С	Commission of the Control of the Con
HCM 95th %tile Q(veh)		0.3		3.5 2		2.9	

Intersection	- and dissipation				i i		7 - 17th 24		3	Suppression of the second			
Int Delay, s/veh	0.1												
Movement	EBL	EBT	WBT	WBR	SBL	SBR	3.50		in the				
Lane Configurations		41	1		N								
Traffic Vol, veh/h	1	809	523	12	7	10					1000000		2 = 1
Future Vol, veh/h	1	809	523	12	7	1							
Conflicting Peds, #/hr	0	0	0	0	0	0		a anii a	h				J. 53
	Free	Free	Free	Free	Stop	Stop							
RT Channelized	5/4	None	-	None	¥	None							
Storage Length	-	-	-	-	0								
Veh in Median Storage,	# -	0	0	141	2								
Grade, %	-	0	0	-	0	-							
Peak Hour Factor	92	92	92	60	60	60							
Heavy Vehicles, %	2	2	2	2	2	2							
Mymt Flow	1	879	568	20	12	2				54.78 ATE	= 4	* Exclusion	- 3-
Marine & Change	mlau4		(dialaid)		Almark	10.150.30			Managara (
	ajor1		Vlajor2		Minor2				110				
Conflicting Flow All	588	0	-	0	1020 578	294			energia de				
Stage 1		Eda S			442				255/5				
Stage 2	416	-	-	-		6.94	4 2 5						
Critical Hdwy	4.14		-		6.84 5.84	0.34							laa.
Critical Howy Stg 1	-	-			5.84						28.5		
Critical Hdwy Stg 2	2.22	*			3.52	3.32				2 1-1	- A-		
Follow-up Hdwy Pot Cap-1 Maneuver	983	-			233	702				7 7 7 7 7			
Stage 1	503	-	_		524	102	1						
Stage 2					615	3						· · · · ±100	
Platoon blocked, %			_	-	010								
Mov Cap-1 Maneuver	983				233	702			5-8		1 2		
Mov Cap-1 Maneuver	300		-		428	-	-						
Stage 1			950		523	-			200	- TEST	775		
Stage 2				-	615	-							
Olage 2					010						100		
Approach	EB	"	MB		SB	V 1		m in the					
HCM Control Delay, s	0	1 19	0		13.2								
HCM LOS					В							152 3 5 5 5	
Minor Lane/Major Mymt		EBL	ERT	WBT	WRD	SBLn1							
Capacity (veh/h)		983	- LD:	1101	T DIV	450							
HCM Lane V/C Ratio		0.001	-	-		0.03							
HCM Control Delay (s)		8.7	0		- 45	13.2			7	2 2 2			
HCM Lane LOS		Α	A			13.Z B							
HCM 95th %tile Q(veh)		0	^		-	0.1							

Baseline

Intersection										1					
Int Delay, s/veh	1.5														
Movement	EBL	EBT	WBT	WBR	SBL	SBR						7.7			
Lane Configurations	7	^	*	1	4	7									
Traffic Vol, veh/h	66	789	511	14	21	48	1 65	1						\$2.50 P	
Future Vol, veh/h	66	789	511	14	21	48									100000000000000000000000000000000000000
Conflicting Peds, #/hr	0	0	0	0	0	0									
Sign Control	Free	Free	Free	Free	Stop	Stop									
RT Channelized		None		None					40						
Storage Length	200	-	-	200	0	0									
Veh in Median Storage,	# -	- 0	0	-	- 2	9-3-4									
Grade, %	-	0	0	-	0	-									
Peak Hour Factor	60	92	92	60	60	60			- 1.3%						
Heavy Vehicles, %	2	2	2	2	2	2									DATE:
Mvmt Flow	110	858	555	23	35	80	1.5						16.16 S		
	/lajor1		Major2		Minor2	1986	= 1	35 C.				1 1801			
Conflicting Flow All	578	0	-	0	1204	278									
Stage 1	- Cold				555								- 1	= 7,5	
Stage 2	-	-		-	649	-									
Critical Hdwy	4.14	3000	•		6.84	6.94							West as		
Critical Hdwy Stg 1	-	-	-	-	5.84	-									2000
Critical Hdwy Stg 2	-	2.4			5.84				0-7 g d						
Follow-up Hdwy	2.22	-	-	-	3.52	3.32			-						emakaka
Pot Cap-1 Maneuver	992				177	719		and the second							
Stage 1	-	-	-	-	539	-									
Stage 2	•	- 120	-		482	4								-3.5.5	
Platoon blocked, %	000	-	-	-	400	740									
Mov Cap-1 Maneuver	992		*	- Z *	157	719								100	
Mov Cap-2 Maneuver	-	-	-	-	310	-									
Stage 1	•				479					n an and the second					
Stage 2		-	-		482	-									
Carlo Harris															
Approach	EB		WB	e incombe	SB							0.00		. P	
HCM Control Delay, s	1	57.	0		12.9	osni o		elyë-				1			E 7
HCM LOS		TE			В			÷					- W1552		
Minor Lane/Major Mvml	1000	EBL	EBT	WBT	WRP	SBLn1	SBI n2	r 10-11	- 4 1 1,14-						
Capacity (veh/h)		992			ETENT!	310	719								
HCM Lane V/C Ratio		0.111	-		-	0.110									
HCM Control Delay (s)	3	9.1		-		18.1	10,6							- T T.	
HCM Lane LOS	No.	Α	-	-		C	В								
HCM 95th %tile Q(veh)		0.4				-	0.4		112222		74 . 5 6 6				
HOW JOHN JOHN GIVEN	7-7	0.4		•		0.4	0.4								-060

Synchro 10 Report Page 1 Baseline

Intersection				niekon	- 1	
Int Delay, s/veh	7.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		1			4
Traffic Vol, veh/h	153	0	- 11	47	0	10
Future Vol, veh/h	153	0	11	47	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None		None	•	None
Storage Length	0	-		-	-	-
Veh in Median Storage	,# 0		0			- 0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	255	.0	18	78	0	17
Major/Minor	Minor1		Major1	(alive)	Major2	
Conflicting Flow All	74	57	0	0	96	0
Stage 1	57			-4-3		Fry C
Stage 2	17	-	-	-	-	
Critical Hdwy	6.42	6.22			4.12	
Critical Hdwy Stg 1	5.42	-	-		-	-
Critical Hdwy Stg 2	5.42		-	3 a -		•
Follow-up Hdwy	CONTRACTOR OF THE PARTY OF THE	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	930	1009		=	1498	1
Stage 1	966	-	-		-	-
Stage 2	1006		-			
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	930	1009	•	- ·	1498	
Mov Cap-2 Maneuver	930	-	-	-	-	-
Stage 1	966	<u> </u>	•			
Stage 2	1006	-	-	-	-	-
				· Coffee and co		
Approach	WB	4 2 4	NB		SB	
HCM Control Delay, s	10.3	-45-02	0		0	
HCM LOS	В			1		
Minor Lane/Major Mvm	t i	NBT	NBRI	VBLn1	SBL	SBT
Capacity (veh/h)				930	1498	1.20
HCM Lane V/C Ratio		-	-	0.274	-	•
HCM Control Delay (s)		-		10.3	0	-
HCM Lane LOS		-		В	Α	-
HCM 95th %tile Q(veh)	VIII 15	-		1.1	0	-

Intersection		41.3		re-ent			
Int Delay, s/veh	3.9						
Vovement	WBL	WBR	NBT	NBR	SBL	SBT	The Paris of the Section of the Sect
Lane Configurations	W		1>			4	
Traffic Vol, veh/h	10	0	1	10	0	- 0	
Future Vol, veh/h	10	0	1	10	0	0	
Conflicting Peds, #/hr	0	0	0	0	0	.0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized		None		None		None	
Storage Length	0	-		-	-	-	
Veh in Median Storage		5 7121	0		-	0	
Grade, %	0	-	0		-	0	
Peak Hour Factor	60	60	60	60	60	60	
Heavy Vehicles, %	2	2	2	2	2	2	
Mymt Flow	17	0	2	17	0	0	
Major/Minor	Minor1	1 3	Major1	200	Major2		
Conflicting Flow All	13	11	0	0	19	0	
Stage 1	11						
Stage 2	2			-	2	-	
Critical Hdwy	6.42	6.22			4.12	ш.	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	1972 ·			
Follow-up Hdwy	3.518	3.318	-		2.218	-	
Pot Cap-1 Maneuver	1006	1070	-		1597		
Stage 1	1012	-	-	- 4	(+)	-	
Stage 2	1021		'n			-	
Platoon blocked, %							
Mov Cap-1 Maneuver	1006	1070			1597		
Mov Cap-2 Maneuver	1006	-		-	-	-	
Stage 1	1012	- ·	-				
Stage 2	1021	-	-	-	-	-	
				J. 165	7		
pproach	WB		NB	(ÎS)	SB	Harris.	,这一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
HCM Control Delay, s	8.6		0		0		
HCM LOS	Α						A SON
Minor Lane/Major Mym)Ē	NBT		VBLn1	SBL	SBT	
Capacity (veh/h)				1006	1597		
HCM Cantral Dalay (c)		-		0.017	-	7	
HCM Control Delay (s)	1-1-1	•		8.6	0		
HCM Lane LOS			-	A	A	-	
HCM 95th %tile Q(veh))	•		0.1	0		

Intersection	E7 84		X 11 40 6		** * * *	W-11-2-1-
Intersection Int Delay, s/veh	1					. INV
		COT	MOT	MPD	CDI	opp
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ሻ	44	†		Y	
Traffic Vol, veh/h	25	770	431	3	15	40
Future Vol, veh/h	25	770	431	3	15	40
Conflicting Peds, #/hr	0	0	0	0	- 0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None		None	CONTRACTOR OF THE PERSON NAMED IN	None
Storage Length	200	-	-	-	0	-
Veh in Median Storage,	,# -	0	0		2	147
Grade, %	181	0	0	-	0	-
Peak Hour Factor	60	84	84	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	42	917	513	5	25	67
Edularit tions	# minut		Anima Pa	CONTRACTOR OF	Ha work	
	Major1		Major2		Minor2	050
Conflicting Flow All	518	0	-	0	1059	259
Stage 1		-		•	516	
Stage 2		-	-	-	543	-
Critical Hdwy	4.14	-		•	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2		•	•		5.84	
Follow-up Hdwy	2.22	-		-	3.52	3.32
Pot Cap-1 Maneuver	1044	17	•		220	740
Stage 1	-	-	-	-	564	-
Stage 2	-		•		546	
Platoon blocked, %		-	-) -		
Mov Cap-1 Maneuver	1044				211	740
Mov Cap-2 Maneuver	-	-		, - ,	396	
Stage 1	-	•			541	- 1
Stage 2	-	-		-	546	
Approach	EB	13/16/15	WB	Marie 201	SB	
	0.4		0		12.1	
HCM Control Delay, s	U.4		0			
HCM LOS					В	
Minor Lane/Major Mymi	t de la	EBL	EBT	WBT	WBR.	SBLn1
Capacity (veh/h)		1044	- 10 (4)			598
HCM Lane V/C Ratio		0.04	-	-	-	0.153
HCM Control Delay (s)		8.6	*			12.1
HCM Lane LOS		A	-	-	-	В
HCM 95th %tile Q(veh)	53,	0.1		*	-	0.5
7,11,2,11,1						

Intersection					1 1 8	
Int Delay, s/veh	0.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		414	朴		*	
Traffic Vol, veh/h	2	752	422	. 8	3	2
Future Vol, veh/h	2	752	422	8	3	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	and the second second	None	NORTH THE PARTY OF	None	-	and the second second
Storage Length		-	-	-	0	-
Veh in Median Storage	# -	0	0		2	÷
Grade, %	-	0	0	_	0	-
Peak Hour Factor	85	85	85	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2		496	13	5	3
MAINT IOW	4	000	700	- 10		J
Maine/Minne	dained.		Major2		(dimension)	
	Aajor1				Vinor2	255
Conflicting Flow All	509	0	-	0	950	255
Stage 1	- 1	•	•		503	
Stage 2	* * * *			-	447	0.04
Critical Hdwy	4.14			-	6.84	6.94
Critical Hdwy Stg 1			-		5.84	-
Critical Hdwy Stg 2	0.00	1950/6	3 E 5		5.84	*
Follow-up Hdwy	2.22	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1052		•	•	258	744
Stage 1	-	-	-	-	573	-
Stage 2					611	
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1052				257	744
Mov Cap-2 Maneuver	-	-	-	-	454	-
Stage 1		- 1 ·			571	
Stage 2	-	-	-	-	611	-
The second secon						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		11.8	
HCM LOS	-0				В	
					3 - 10	- philes and
Minor Lane/Major Mym		EBL	EBT	WBT	WRD	SBLn1
Capacity (veh/h)		1052	LUI	1101		
HCM Lane V/C Ratio		CONTRACTOR STATEMENT OF THE PROPERTY OF THE PR		-		000
		0.002	-	-	-	0.015
HCM Control Delay (s)		8.4	0			11.8
HCM Lane LOS		A	Α	-	-	В
HCM 95th %tile Q(veh)		0	•			0

Intersection						agir ag	
Int Delay, s/veh	0.7						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	7	44	44	7	7	F	
Traffic Vol, veh/h	37	748	417	7	7	17	
Future Vol., veh/h	37	748	417	7	7	17	
Conflicting Peds, #/hr	0	0	- 0	0	0	. 0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None		None		None	
Storage Length	200	-	-	200	0	0	
Veh in Median Storage,	# -	0	0		2		
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	60	92	92	60	60	60	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	62	813	453	12	. 12	28	
\$ \$ 1 ma	ku landi		(t n	S. 196 3 1 1	F. J.		
	tajor1		Vajor2		Vinor2	207	
Conflicting Flow All	465	0	-	0	984 453	227	the contraction of the contracti
Stage 1					531	-	
Stage 2 Critical Hdwy	4.14	(-	-	•	6.84	6.94	
Critical Hdwy Stg 1	4,14				5.84	0.34	
Critical Hdwy Stg 2					5.84		PAUL TO A LIMITED BY THE THE THE THE STATE OF THE STATE O
Follow-up Hdwy	2.22		_		3.52	3.32	
Pot Cap-1 Maneuver	1093				246	776	
Stage 1	-	-	-	-	607	-	
Stage 2			-		554	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	1093			*	232	776	
Mov Cap-2 Maneuver	-	-		-	406		
Stage 1			•	-	572		
Stage 2	-		-	-	554	-	
	we.						
Approach	EB	Projet L	WB		SB	iga is	Market Committee of the
HCM Control Delay, s HCM LOS	0.6		0		11.1 B		
Minor Lane/Major Mvml	h = 1 6	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)		1093				406	776
HCM Lane V/C Ratio		0.056	-	-		0.029	0.037
HCM Control Delay (s)	1 23	8.5) = .		14.1	9.8
HCM Lane LOS		Α	-	-	-	В	A
HCM 95th %tile Q(veh)	-11.	0.2				0.1	0,1

intersection	52. 1	S_{i+1}				JA 194
Int Delay, s/veh	5.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	*		1			4
Traffic Vol, veh/h	53	0	2	26	0	2
Future Vol, veh/h	53	0	2	26	0	2
Conflicting Peds, #/hr	0	0	. 0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized			*	and who be the		CONTRACTOR OF THE PARTY OF THE
Storage Length	0		-	-	4	
Veh in Median Storage	,# 0	1	0			0
Grade, %	0	-	0	-		0
Peak Hour Factor	60	60	60	60	60	60
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	- 88	0	3	43	0	3
- A						
MainelMinne	Vinor1		Mainel		Majoro	1,3050
			Major1		Major2	0
Conflicting Flow All	28 25	25	0	0	46	0
Stage 1 Stage 2	3			-		
	6.42	6.22	-	-	4.12	-
Critical Howy			•		4.12	•
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	2 240	-		0.040	
Follow-up Hdwy		3.318	-		2.218	-
Pot Cap-1 Maneuver	987	1051	· · · · · ·		1562	
Stage 1	998				-	-
Stage 2	1020		*	•	•	W
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	987	1051	331-2	: ·	1562	
Mov Cap-2 Maneuver	987	-	-	-	-	-
Stage 1	998	-				
Stage 2	1020	-	-	-	-	-
Approach	WB	2.72	NB	ar wasti	SB	
HCM Control Delay, s	9		0		0	
HCM LOS	A		U		U	
7 7 7						
		A (PA W	4.00	N 194		
Minor Lane/Major Mvm	T .	NBT	NBRI	WBLn1	SBL	SBT
Capacity (veh/h)				001	1562	
HCM Lane V/C Ratio		-	-	0.089		
				9	0	S. 10 22
HCM Control Delay (s)						
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh)	1324	-			A 0	-

Intersection					t 1									5 5 1			
Int Delay, s/veh	0																
Movement	WBL	WBR	NBT	NBR	SBL	SBT			3 (6)								
Lane Configurations	M		1			4											
Traffic Vol, veh/h	0	0	2	0	0	2				10 (5)	9916		4		G T		
Future Vol, veh/h	0	0	2	0	0	2											
Conflicting Peds, #/hr	0.	0	0	0	0	0					- = 3						
Sign Control	Stop	Stop	Free	Free	Free	Free	04/01/2006										
RT Channelized		DESCRIPTION OF STREET		-		None		Y			S SE					100	
Storage Length	0	-	-	-		-											
Veh in Median Storage			0			0											
Grade, %	0	_	0		-	0											
Peak Hour Factor	60	60	60	60	60	60											
	2	2	2		2	2											
Heavy Vehicles, %		0		2													
Mvmt Flow	0	Ü	3	0	0	3	1.7.										
Major/Minor	Minor1		Major1		Major2					F ()			, = *=\	100			
Conflicting Flow All	6	3	0	0	3	0											
Stage 1	3		-			-					-		T		- 1		
Stage 2	3	-		-	_	4											
Critical Hdwy	6.42	6.22			4.12												
Critical Hdwy Stg 1	5.42	_	-	-		-	COLCUMINE.								NAME OF TAXABLE PARTY.		
Critical Hdwy Stg 2	5.42			4					773			1/2 3	10.2%				77.
Follow-up Hdwy		3.318	-	-	2.218	-											4-3-4-1
Pot Cap-1 Maneuver	1015	1081	S		1619					188	-12_			15		i = :	
Stage 1	1020	-	-	-	-	-											
Stage 2	1020	2													- 1		733
Platoon blocked, %	IVAV	A CANCELLAND	-	_		-								310-mark			
Mov Cap-1 Maneuver	1015	1081	_		1619					on opposite				2000			
Mov Cap-2 Maneuver	1015	-	-		1010	-											
Stage 1	1020									G-S		- 2					
Stage 2	1020	-	-														
Olage 2	1020					TOUR SELECTION										1 12	
Approach	WB		NB		SB				70 = -						Tell s		parari.
HCM Control Delay, s	0	1	0		0												
HCM LOS	Α																
Maretanantikat		AIRT	A IPSPE	A/731	OP1	no.									25		
Minor Lane/Major Mvm Capacity (veh/h)		TYEST	NBRV		1619	SBT					e de la cal	30			Day (15/5
HCM Lane V/C Ratio			do 1 1		1019			4		3			de F				
		-		-	-												
HCM Long LOS				0	0												
HCM Lane LOS		-	-	Α	A	•											
HCM 95th %tile Q(veh)		 .			0												

Intersection									4
Int Delay, s/veh	3.2								
Movement	EBL	EBT	WBT	WBR-	SBL	SBR		State State of the last of the	
Lane Configurations	ħ	1	44	7	4	7			
Traffic Vol, veh/h	98	511	658	13	29	127			
Future Vol, veh/h	98	511	658	13	29	127			
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Free	Free	Free	Free	Stop	Stop			
RT Channelized	-	None	-	None		None			
Storage Length	200	-	-	200	0	200			
Veh in Median Storage,	# -	0	0		2				
Grade, %	-	0	0	-	0				
Peak Hour Factor	60	92	92	60	60	60			===
Heavy Vehicles, %	2	2	2	2	2	2			
Mymt Flow	163	555	715	22	48	212			
Major/Minor	lajor1	- 1	Vajor2	1	Vinor2	14-14			W
Conflicting Flow All	737	0	-	0	1319	358			
Stage 1		-			715				
Stage 2	-	-	-	-	604				
Critical Hdwy	4.14	on die			6.84	6.94	. 34		
Critical Hdwy Stg 1	-	n=	-	-	5.84	-			
Critical Hdwy Stg 2	-	-			5.84				
Follow-up Hdwy	2.22	-	-	-	3.52	3.32		none and a second	
Pot Cap-1 Maneuver	865				149	638			
Stage 1	-	-	-	-	446	-			
Stage 2				-	508				
Platoon blocked, %		-	-	-					
Mov Cap-1 Maneuver	865				121	638			
Mov Cap-2 Maneuver	-	-	-		262	-			
Stage 1		-		-	362	-			
Stage 2	-	-	-	-	508				
		merce d							
Approach	EB		WB		SB				
HCM Control Delay, s	2.3		0		15				
HCM LOS			-		С				
			77						-
Minor Lane/Major Mymt		EBL	EBT	WBT	WBR	SBLn1	SBLn2		
Capacity (veh/h)	y	865	-				638		
HCM Lane V/C Ratio		0.189				0.184			
HCM Control Delay (s)		10.1				21.8	13.4		
HCM Lane LOS		В	-			C	В		
HCM 95th %tile Q(veh)		0.7				0.7	1.4		

Intersection		A.		阿 斯克	. 4 - E							NETT I	
Int Delay, s/veh	2.6												
Movement	EBL	EBT	WBT	WBR	SBL	SBR			. i 19				
Lane Configurations	7	44	44	7	4	7							
Traffic Vol, veh/h	135	405	621	86	17	50	1 2 1		1-2-				
Future Vol, veh/h	135	405	621	86	17	50			1				
Conflicting Peds, #/hr	- 0	0	0	0	0	0							
Sign Control	Free	Free	Free	Free	Stop	Stop							
RT Channelized		PROGRAM MANAGEMENT		None	-	STREET, SANSON SANSON	12.0		1 = 3 = 3				
Storage Length	200	-	-	200	0	0							
Veh in Median Storage,		0	0	-	2		723		-				
Grade, %	<i>TF</i>	0	0	-	0	-					U-Sara		
Peak Hour Factor	60	92	92	60	60	60		1989			5_ 11 - 12		
Heavy Vehicles, %	2	2	2	2	2	2							
Mymt Flow	225	440	675	143	28	83							
WIVITE FLOW	440	440	0/0	140	20	00							
Major/Minor N	lajor1	1	Vajor2		Minor2								
Conflicting Flow All	818	0		0	1345	338							
Stage 1			= = 14		675	-							15.0
Stage 2	-	÷	-	_	670	-							
Critical Hdwy	4.14		-		6.84	6.94			1.230				
Critical Hdwy Stg 1	-	-	-	-	5.84	-							
Critical Hdwy Stg 2		1 5 m			5.84	-	TERM						
Follow-up Hdwy	2.22	-	-	-	3.52	3.32							
Pot Cap-1 Maneuver	806				143	658	1000年1月1日		- 2				755E.T.
Stage 1		-	-	-	467	-							
Stage 2		-38			470		45.1 55.5	RETURNS					
Platoon blocked, %		-	-	-									
Mov Cap-1 Maneuver	806	No. 15		-	103	658			1 37				
Mov Cap-2 Maneuver	-	_		-	207	-							
Stage 1					337		173561			- 3-1			
Stage 2	-			_	470	_							360
Olage 2	- T				410								
Approach	E8		WB		SB								
HCM Control Delay, s	3.8	/}	0		14.8	1977		1772.2				7=4	
HCM LOS					В								
Minor Constitution Manual		COL	COT	MET	WOD	ODI 24	apia						
Minor Lane/Major Mvmi		EBL	EBT	WBT		SBLn1							
Capacity (veh/h)		806			3	207	658					3,823	
HCM Lane V/C Ratio		0.279	-	-		0.137						1-	
HCM Control Delay (s)		11.2					11.3						
HCM Lane LOS		В	-		-	D	В						
HCM 95th %tile Q(veh)		1.1	1	-		0.5	0.4						

4							
Intersection	10	2 10	in the		10 p 1 18		
Int Delay, s/veh	2.5						
	EBL	EDT	MPT	MOD	CDI	CDD	T Share
Movement Configurations		EBT	WBT	WBR	SBL	SBR	
Lane Configurations	7	† †	^	7	7	7	
Traffic Vol, veh/h	52	811	553	6	44	119	
Future Vol, veh/h	52	811	553	6	44	119	
Conflicting Peds, #/hr	0	-0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	200	None		None	-		
Storage Length	200		-	200	0	200	
Veh in Median Storage		0	0	-	2	•	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	60	92	92	60	60	60	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	87	882	601	10	73	198	
Major/Minor	Najor1		Major2		Minor2	18.175.26	
Conflicting Flow All	611	0	viajorz -	0	1216	301	
Stage 1	011	Ü		0	601	301	
Stage 2			-		615		
Critical Hdwy	4.14	-		140	6.84	6.94	
Critical Hdwy Stg 1	4.14	-			5.84	0.94	
Critical Hdwy Stg 2			-	•	5.84		
Follow-up Hdwy	2.22		-		3.52	3.32	
Pot Cap-1 Maneuver	964		-		173	695	
	304				510	- Control of the Cont	
Stage 1 Stage 2	-	-	-	-	AUGUSTALIA TRANSPORTATION AND ADDRESS OF THE PARTY OF THE		
Platoon blocked, %	*				502	=	
Mov Cap-1 Maneuver	964	•	-	-	157	695	
Mov Cap-2 Maneuver			•		326	080	
The state of the s	-		-	-	Name and Address of the Owner, where		
Stage 1	•				464		
Stage 2	-	-	-	-	502		-
				10	23		
Approach	EB		WB		SB		
HCM Control Delay, s	0.8		0		14.1		
HCM LOS					В		
				-			
1.45							
Minor Lane/Major Mymr		EBL	EBT	WBT	WBR.	SBLn1	
Capacity (veh/h)		964				326	695
HCM Lane V/C Ratio		0.09	-	-		0.225	Sanitar Sani State Conscious states
HCM Control Delay (s)		9.1				1.01.04	12.2
HCM Lane LOS		Α	-	-	-	C	В
HCM 95th %tile Q(veh)		0.3	(= = -	•		0.8	1.2

Intersection	e dikire										7-10-5	
Int Delay, s/veh	1.6											
Movement	EBL	EBT	WBT	WBR	SBL	SBR				1 76		
Lane Configurations	7	^	^	7	*	7					The second second	
Traffic Vol, veh/h	66	789	511	25	28	48				. 5-7-9		
Future Vol, veh/h	66	789	511	25	28	48						
Conflicting Peds, #/hr	0	0	0	0	0	0			Strafa.	1000		
Sign Control	Free	Free	Free	Free	Stop	Stop						
RT Channelized		None		MINUSEL PROPERTY.	-	and the same of the same of				-15 7 B		
Storage Length	200	-	-	200	0	0						
Veh in Median Storage		0	0		2		1000000	S 1 (5)		S 12 2 2 2		
Grade, %	_	0	0	-	0	_						
Peak Hour Factor	60	92	92	60	60	60					2 - 2	
Heavy Vehicles, %	2	2	2	2	2	2						
Mymt Flow	110	858	555	42	47	80	19000000					
WINE ION	110	000	400	42	41	00						
Major/Minor I	/tajor1		Major2	04:11	Minor2							
Conflicting Flow All	597	0	-	0	1204	278						
Stage 1					555		7		-			
Stage 2	-	-	-	-	649	-						
Critical Hdwy	4.14	-4 5 T &	e de la	3.510	6.84	6.94				- TEP 12 - 1		
Critical Hdwy Stg 1	-	-	-	-	5.84	-	3-3-1					
Critical Hdwy Stg 2	3.0		*		5.84				e e e e e			
Follow-up Hdwy	2.22	-	-		3.52	3.32						
Pot Cap-1 Maneuver	976	_	_	100	177	719						145 July 12
Stage 1	-	-	-	-	539	-						
Stage 2		- 7-1 <u>-</u> -		-	482			F 15 15 15		- 0		
Platoon blocked, %		-	_	_								
Mov Cap-1 Maneuver	976			77	157	719			5.5			
Mov Cap-2 Maneuver		-	-	-	310	- 10						
Stage 1	-	- E			478		200					
Stage 2	-	-	-		482	-						
Glade Land	12"	- 315			702						10 A T	
Approach	EB		WB		SB	C. 2511			11-1-1-3-			* 15 20 15 1
HCM Control Delay, s	1		0		13.6							
HCM LOS					В		14	Arm				
EATL THE LOCK AND											E E	
Minor Lane/Major Mym		EBL	EBT	WBT	WBR	SBLn1	SBLn2	=1 == = a) S				
Capacity (veh/h)		976	•		12 10 20	310	719					
HCM Lane V/C Ratio		0.113	-	-	-	0.151	0.111					
HCM Control Delay (s)		9.2		30.6	-7.3	18.7	10.6					
HCM Lane LOS		Α	-	-	-	С	В					
HCM 95th %tile Q(veh)		0.4	-	8 84		0.5	0.4					

Intersection				Par S		10.00							
Int Delay, s/veh	0.9												
Movement	EBL	EBT	WBT	WBR	SBL	SBR					- 12		
Lane Configurations	7	^	^	1	7	7							
Traffic Vol., veh/h	25	770	431	3	15	40		75.3				3	
Future Vol, veh/h	25	770	431	3	15	40							
Conflicting Peds, #/hr	0	0	0	0	0	0		100		to The			
Sign Control	Free	Free	Free	Free	Stop	Stop							
RT Channelized		displayshettilared		100 TO 10		NAME OF TAXABLE PARTY.							
Storage Length	200	-	-	200	0	200							
Veh in Median Storage,			- 0	-	2	200							
Grade, %	<i>y</i>	0	0		0	-							
Peak Hour Factor	60	84	84	60	60	60			¥		9 8 20 25		1 12
Heavy Vehicles, %	2	2	2	2	2	2			, - (- () - ()				
Mvmt Flow	42	917	513	5	25	67	7						
WINITERIOW	42	311	010	9	23	07		1 ()					Š846-24.
Major/Minor tv	Najor1	1	Major2	131	Vinor2				(FF ST		
Conflicting Flow All	518	0	-	0	1056	257							
Stage 1					513		- 13						
Stage 2	-		-	_	543	-							
Critical Hdwy	4.14				6.84	6.94							
Critical Hdwy Stg 1	-	-	-	-	5.84	-							
Critical Hdwy Stg 2	-			14	5.84		1 E-3	53.75			17.74		* * * *
Follow-up Hdwy	2.22	-			3.52	3.32			tood in an armini		-10 25		
Pot Cap-1 Maneuver	1044				221	742	5	-500					
Stage 1	-	_	-		566	176							
Stage 2					546								- 21
Platoon blocked, %		_	-	-	0.0		A			To or who were the second			
Mov Cap-1 Maneuver	1044	*		=	212	742	100				, 1 <u>- 21</u>		
Mov Cap-2 Maneuver	1011	_		_	397	174							
Stage 1	1-12				543			2					
Stage 2	-				546								
Olayo Z					J40						1.66		
Approach	EB		WB	. Clar	SB					411	(a. 1916 (g.	1 13	VIII)
HCM Control Delay, s	0.4	1 S E 1	. 0		11.5		12.00						
HCM LOS	3111			1-11-5	В								
产品型设施的 6							3 J 18					5-5	
Minor Lane/Major Mvmt	5013	EBL	EBT	WBT	WBR :	SBLn1 S	BLn2			130	发现的		Salekani.
Capacity (veh/h)		1044		4	-	397	742						
HCM Lane V/C Ratio		0.04	-	-	-	0.063	0.09						
HCM Control Delay (s)		8.6	4	- 15 5		14.7	10.3				12 2 7 1		5533
HCM Lane LOS		Α	-	-	-	В	В						
HCM 95th %tile Q(veh)		0.1				0.2	0.3						

ntersection	76 - 4						7.25			- F. T.	1 +		7	
nt Delay, s/veh	0.7													
Movement	EBL	EBT	WBT	WBR	SBL	SBR							1500	
Lane Configurations	7	44	44	1	1	7								-
Traffic Vol, veh/h	37	748	417	13	9	17		-0.5					91, 5	
Future Vol, veh/h	37	748	417	13	9	17								
Conflicting Peds, #/hr	0	0	0	0	0	0			5.7					
Sign Control	Free	Free	Free	Free	Stop	Stop								
RT Channelized	-	STATE OF THE PERSON	4	A STATE OF THE PERSON NAMED IN	-	PROCESSION NO.					. 1,393			1 1 - T-1
Storage Length	200	-	-	200	0	0			-1					
Veh in Median Storage,	MANUEL COMMAND	0	0		2					77.5				
Grade, %	_	0	0	-	0									
Peak Hour Factor	60	92	92	60	60	60			F-1,5					
Heavy Vehicles, %	2	2	2	2	2	2								
Mymt Flow	62	813	453	- 22	15	28							. 555	
VIVINGENOW	02	013	400	44	10	20								
Major/Minor N	lajor1	4.1	Major2		Minor2							in the state	25.5	
Conflicting Flow All	475	0		0	984	227								
Stage 1	3.54	-y - 20 - •-	-		453	-	=======================================							
Stage 2	-	-		-	531	-								
Critical Hdwy	4.14			-	6.84	6.94								
Critical Hdwy Stg 1	-	-	17	-	5.84	-								
Critical Hdwy Stg 2	-		-	100	5.84	-	E ton	5.45			100			
Follow-up Hdwy	2.22	-	-	-	3.52	3.32								
Pot Cap-1 Maneuver	1083			634	246	776					- 22			
Stage 1	-	-	-	-	607	-								
Stage 2	-		-	- 4	554									
Platoon blocked, %		-	-	-							29/25/000014			
Mov Cap-1 Maneuver	1083			-	232	776				1				1.5
Mov Cap-2 Maneuver		_	_	-	406	-								
Stage 1					572				7-31	2				
Stage 2	-	_			554									
otage 2		lei i	3-7-		004									
Approach	EB		WB		SB								3 7 22	6 4 4 7
HCM Control Delay, s	0,6	7 (-	0		11.3								est.	
HCM LOS					В									
Manager and the second		- cor	COT	188757	MOD	0D: 4	001 0							
Minor Lane/Major Mvmt Capacity (veh/h)		1083	EBT	WBT		SBLn1 406	776						NUE NA	
HCM Lane V/C Ratio		0.057				0.037		100	- 23507				Jul 27 %	10000
		Annual Control of the Control	-	-	and the second second		Contract of the second second second					1-		
HCM Control Delay (s)		8.5			•		9.8							
HCM Lane LOS		A		-	-	В	A							
HCM 95th %tile Q(veh)		0.2		•		0.1	0.1							

Baseline

APPENDIX K:

HISTORICAL & ARCHAEOLOGICAL SURVEY

6.0 HISTORICAL USE INFORMATION

6.1 Aerial Photograph Review

ECS reviewed aerial photographs of the subject property and immediately surrounding properties for evidence of former usage which may indicate potential environmental issues. The aerial photographs were obtained from EDR. The aerial photographs reviewed were dated 1941, 1953, 1958, 1960, 1968, 1979, 1983, 1989, 1994, 2005, 2009, 2013, and 2017. Aerial photographs dated prior to 1941 were not available for review. The ECS review is dependent on the quality and scale of the photographs. The following is a description of relevant information from the aerial photographs:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1946	A school is located on the southwest corner of the subject property, a residence is depicted north of the school building and a residence is located on the east side of the property. Agricultural land is located on the southern portion of the property and wooded land on the northern portion of the property	North - Wooded land East - Agricultural land, a residence, and wooded land South - Highway 17 followed by wooded land West - Agricultural land, residences, and wooded land	No
1953	Similar to the 1946 Aerial Photograph, except there appear to be additional structures on the east side of the subject property.	North - Wooded land East - Agricultural land, wooded land, and residences South - Highway 17 followed by wooded land West - Residences, agricultural land, and wooded land	No
1958 and 1960	Similar to the 1953 Aerial photograph, except the school buildings have been removed on the southwest corner of the subject property and some of the residences no longer appear to be on the east side of the property.	North - Wooded land East - Wooded land, agricultural land, and residences South - Highway 17 followed by wooded land West - Residences, agricultural land, and residences	No



Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1968	The subject property contains agricultural structures, agricultural land, and dirt roads running from Highway 17 to the central portion of the property with a round-a-bout.	North - Wooded land East - Agricultural land and residences followed by wooded land South - Highway 17 followed by wooded land West - Residences and wooded land	No
1979	Similar to the 1968 Aerial Photograph, except there are several additional agricultural structures depicted on the property and a small pond appears to the north of the round-a-bout.	North - Wooded land East - Wooded land and residences South - Highway 17 followed by wooded land and a residence West - Wooded land and residences	No
1983 and 1989	The subject property is developed with agricultural land throughout the property, associated agricultural structures on the south side of the property, and a small pond on the northwest side of the subject property.	North - Wooded land East - Wooded land and residences South - Highway 17 followed by wooded land and a residence West - Wooded land and residences	No
1994	Similar to the 1989 Aerial photograph, except a pond appears on the northeast corner of the property.	Similar to the 1989 Aerial Photograph, except properties to the east and west appear to be under development.	No
2005, 2009, 2013, and 2017	The subject property is developed with three agricultural structures on the central portion of the subject property and agricultural land and a lake at the northeast corner of the subject property.	North - Wooded land East - Wooded land and residences South - Highway 17 followed by wooded land and residences West - Jenkins Hill Road followed by residences, wooded land, and ponds	No

6.2 Sanborn Fire Insurance Map Review

In an effort to identify past uses, ECS utilized EDR to search for historical Sanborn Fire Insurance



Maps (Sanborn) for the subject property and surrounding area. Sanborn maps were not available for this area. The absence of such maps generally indicates that the subject property is located in an area where Sanborn maps were not produced because the area was rural or it was not economically feasible. ECS does not expect the lack of Sanborn maps to impact our ability to render a professional opinion concerning the subject property given the amount of historical information obtained from our research, the USGS topographic map, aerial photographs, city directories, and other historical records obtained. A copy of the Unmapped Property report is included within Appendix IV.

6.3 Property Tax Files

Property tax files may include records of past ownership, appraisals, maps, sketches, photos or other information kept by the local jurisdiction for property tax assessment purposes. According to the Charleston County tax assessor on-line information, the subject property is owned by Quarry Lake Plantation, LLC. The subject property is listed as a 107.20-acre parcel with an identification number of 7110000052. Additionally, the Charleston County tax assessor on-line information indicated the subject property was developed with a 576 square foot detached living area constructed in 1971, a 3,024 square foot general purpose building constructed in 1971, a 3,750 square foot general purpose building constructed in 1986, a 2,688 square foot hay storage building, a 1,160 square foot hay storage building, and a 120 square foot utility shed built in 1971.

6.4 Recorded Land Title Records

Recorded land title records may include leases, land contracts, and AULs recorded by the local jurisdiction. Land title records may provide only a list of the names of previous owners and may be of limited use; however, they may provide useful information about uses or occupancy of the property when employed in combination with other sources.

ECS was not provided with Land Title Records. ECS reviewed the following deeds available on the Charleston County Register of Deeds we

- Deed Book 0510, Page 591, dated October 13, 2015. Quarry Lake Plantation, LLC, a South Carolina Limited Liability Company, obtained the property from Juvar, LLC, a South Carolina Limited Liability Company.
- Deed Book C544, Page 845, dated July 7, 2005. Juvar, LLC, a South Carolina limited liability company, obtained the property from Ursula S Kaiser, as a capital contribution to and in return for memberships in Juvar, LLC.
- Deed Book Y393, Page 095, dated December 31, 2001. The Kaiser Company, a South Carolina limited partnership, by Ursula S. Kaiser as President of U.S. Kaiser, LLC obtained the property from Ursula S. Kaiser.
- Deed Book F295, Page 107, dated December 30, 1997. Kaiser Company, a partnership, obtained the property from Robert L. Kaiser, Jr., Ann Marie K. Forsberg, Vincent P. Kaiser, Ursula K. Ferguson, and Jane L. K. Clarkin.

6.5 Historical USGS Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS) for various time periods. ECS reviewed topographic maps of the subject property and immediately surrounding



properties for evidence of former usage which may indicate potential environmental issues. The topographic maps were obtained from EDR and were dated 1943, 1973, 1992, and 2014. Topographic maps dated prior to 1943 were not available for review. The following is a description of relevant information from the topographic maps:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1943	Two residences and two buildings apparently associated with St James School appear on the south side of the property, with wooded land and an old railroad grade on the northern portion of the subject property.	North - Steed Creek Swamp East - An unpaved Road South -A primary highway followed by wooded land and residences West- An unpaved road followed by residences	No
1973 and 1992	In addition to the four buildings depicted on the 1943 Topographic Map, six commercial structures and a road with a roundabout are depicted on the central portion of the subject property	North - Steed Creek Swamp East - A commercial building followed by a road South - A primary highway followed by wooded land and a residence West - Residences and commercial buildings	No
2014	Due to the level of detail of the 2014 Topographic Maps, no strucuttres are depicted on the subject property or the surrounding properties. Kaiser Fram road is depicted on the southern portion of the subject property	North - Wooded land East - Wooded land followed by Duffield Road South - Highway 17 followed by wooded land West - Wooded land	No

6.6 City Directory Review

One of the ASTM standard historical sources to be reviewed for previous subject property uses is local street directories, commonly known as City Directories. The purpose of the directory review is to identify past occupants of the subject property, adjoining properties, or nearby properties. In some rural areas, street directories information is limited.

ECS reviewed city directories obtained from EDR. The directories reviewed were dated 1992, 1995, 2000, 2005, 2010, and 2014. The directories reviewed prior to 1992 did not provide listings for the subject property or surrounding area. Directories dated prior to 1992 were not available for review. The subject property address utilized for the research was US Highway 17. A copy of the city directory



report is included in Appendix IV. The following is a description of relevant information from the city directories:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1992	No Listings	West - Residence (1175 Jenkins Hill Road)	No
1995	No Listings	West - Residences (7743 N Hwy 17, 1161 Jenkins Hill Road, and 1175 Jenkins Hill Road)	No
2000	No Listings	West - Residences (1119, 1169, and 1175 Jenkins Hill Road)	No
2005	Horse Haven Farms (7820 N Hwy 17)	West - Residences (1119 and 1175 Jenkins Hill Road)	No
2010	No Listings	West - (1119, 1131, 1161, and 1175 Jenkins Hill Road)	No
2014	Occupant Unknown, Steven P Tockmakis	West - Residences (1119 and 1175 Jenkins Hill Road)	No

6.7 Building Department Records

The term building department records means those records of the local government indicating permissions of the local government to construct, alter or demolish improvements on the property.

ECS contacted the Charleston County Building Services Department to determine if they had historical information regarding construction dates, inspections, or other information regarding the subject property. A Freedom of Information Act request was submitted to the Building Department on August 20, 2019. No information has been received at the time of the report completion. If information is received that changes the conclusions or recommendations of this report, ECS will forward the information to the Client.

6.8 Zoning/Land Use Records

The term zoning/land use records refers to records of the local government indicating the uses permitted by the government in particular zones within its jurisdictions.

ECS reviewed zoning/land use records obtained from the Charleston County GIS Map. The subject property is currently zoned for agricultural use (AG-10).

6.9 Other Historical Sources

Other credible historical sources may be reviewed to identify past uses of the subject property. These



sources may include websites, county or state road maps, historical society documents, or local library information.

The SC DHEC was contacted to determine if they had historical information regarding environmental issues or responses at the subject property. A Freedom of Information Act request was submitted to the SC DHEC on August 20, 2019. According to the SC DHEC, there were no regulatory files available for review for the subject property.

6.10 Previous Reports

Newkirk Environmental Inc. previously conducted a Phase I Environmental Site Assessment for the subject property in December 14, 2018. The report indicated that the subject property consisted of undeveloped agricultural land with farm buildings. The report did not identify on-site or off-site RECs at the time the Phase I ESA was completed. ECS cannot attest to the accuracy of the information reviewed.

6.11 Historical Use Summary

According to historical research, it appears that the subject property was developed with St. James School on the southwest corner of the property, residences on the southwest and east side of the property and agricultural land from at least the early 1940's through the early 1950's. The school structures and residential structures were removed from the subject property in the early 1950's. From the mid-1950's through present day, the subject property has been utilized for agricultural purposes with varying configurations of associated agricultural outbuildings and a residence on the central portion of the property. Historical records prior to 1941 were not reasonably ascertainable for the subject property.

The subject property was historically and is currently used as agricultural land. Such use of the subject property may have included the storage and use of beneficial agricultural products such as fungicides, herbicides, and/or fertilizers. The legal use (i.e., in accordance with the manufacturers' specifications and customary practices) of such substances, in the course of standard operational practices does not constitute a "release to the environment." Further, reasonably ascertainable information was not observed during the course of our assessment, including historical records review, or field reconnaissance observations regarding current site use and site history, that a past release of such substances had occurred. Therefore, the mere presence of this historical land use does not meet the definition of a REC.

Historical aerial photographs depict apparent residential structures on the subject property that were not located on the subject property during our site reconnaissance. ECS does not have technical evidence how these structures were heated, or if the structures utilized septic tanks or water supply wells. Based on the age, it is possible that the structures were heated with oil stored in USTs. ECS did not observe evidence of USTs, septic tanks, or water supply wells associated with these historic structures during our site reconnaissance. While not considered a REC, if encountered during site development, USTs, septic systems, and water supply wells should be closed in accordance with applicable laws.

Our review of historical information for adjoining or nearby properties identified the area as



originally agricultural and rural that transitioned to residential and rural.

No obvious indications of RECs were identified in the historical data review.



Rice/Kaiser Tract

N HIGHWAY 17 MC CLELLANVILLE, SC 29458

Inquiry Number: 5753289.8

August 16, 2019

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

08/16/19

Site Name:

Client Name:

Rice/Kaiser Tract N HIGHWAY 17 MC CLELLANVILLE, SC 29458 EDR Inquiry # 5753289.8 ECS Southeast, LLP 3820 Faber Place Drive North Charleston, SC 29405 Contact: Nicole Miller



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	<u>Details</u>	Source
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2009	1"=500"	Flight Year: 2009	USDA/NAIP
2005	1"=500"	Flight Year: 2005	USDA/NAIP
1994	1"=750'	Flight Date: February 25, 1994	USGS
1989	1"=500'	Acquisition Date: February 09, 1989	USGS/DOQQ
1983	1"=500'	Flight Date: March 22, 1983	USDA
1979	1"=500'	Flight Date: October 27, 1979	USDA
1968	1"=500'	Flight Date: April 26, 1968	USGS
1960	1"=500'	Flight Date: September 14, 1960	USGS
1958	1"=500"	Flight Date: January 27, 1958	USGS
1953	1"=500'	Flight Date: March 27, 1953	USDA
1941	1"=500'	Flight Date: November 03, 1941	USDA

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Rice/Kaiser Tract
N HIGHWAY 17
MC CLELLANVILLE, SC 29458

Inquiry Number: 5753289.3

August 14, 2019

Certified Sanborn® Map Report



Certified Sanborn® Map Report

08/14/19

Site Name:

Client Name:

Rice/Kaiser Tract N HIGHWAY 17 MC CLELLANVILLE, SC 29458 EDR Inquiry # 5753289.3

ECS Southeast, LLP 3820 Faber Place Drive North Charleston, SC 29405

Contact: Nicole Miller



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ECS Southeast, LLP were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 543B-44E3-AF30

PO #

Rice/Kaiser Tract

Project

Rice/Kaiser Tract

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library. LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 543B-44E3-AF30

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

✓ Library of Congress

✓ University Publications of America

✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Rice/Kaiser Tract
N HIGHWAY 17
MC CLELLANVILLE, SC 29458

Inquiry Number: 5753289.4

August 14, 2019

EDR Historical Topo Map Report with QuadMatch™



EDR Historical Topo Map Report

08/14/19

Site Name:

Client Name:

Rice/Kaiser Tract N HIGHWAY 17 MC CLELLANVILLE, SC 29458

EDR Inquiry # 5753289.4

ECS Southeast, LLP 3820 Faber Place Drive North Charleston, SC 29405



Contact: Nicole Miller

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ECS Southeast, LLP were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

0		
Search	ROSIII	TC.

Coordinates:

P.O.#

Rice/Kaiser Tract

Service of Service Ser

Latitude:

33.043741 33° 2' 37" North

Project: Rice/Kaiser Tract

Longitude:

-79.59841 -79° 35' 54" West

UTM Zone: UTM X Meters: Zone 17 North 630871.39

UTM Y Meters:

3657009.03

Elevation:

18.00' above sea level

Maps Provided:

2014

1992

1973

1943

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2014 Source Sheets



Awendaw

7.5-minute, 24000

1992 Source Sheets



Awendaw

7.5-minute, 24000 Aerial Photo Revised 1973

1973 Source Sheets



Awendaw

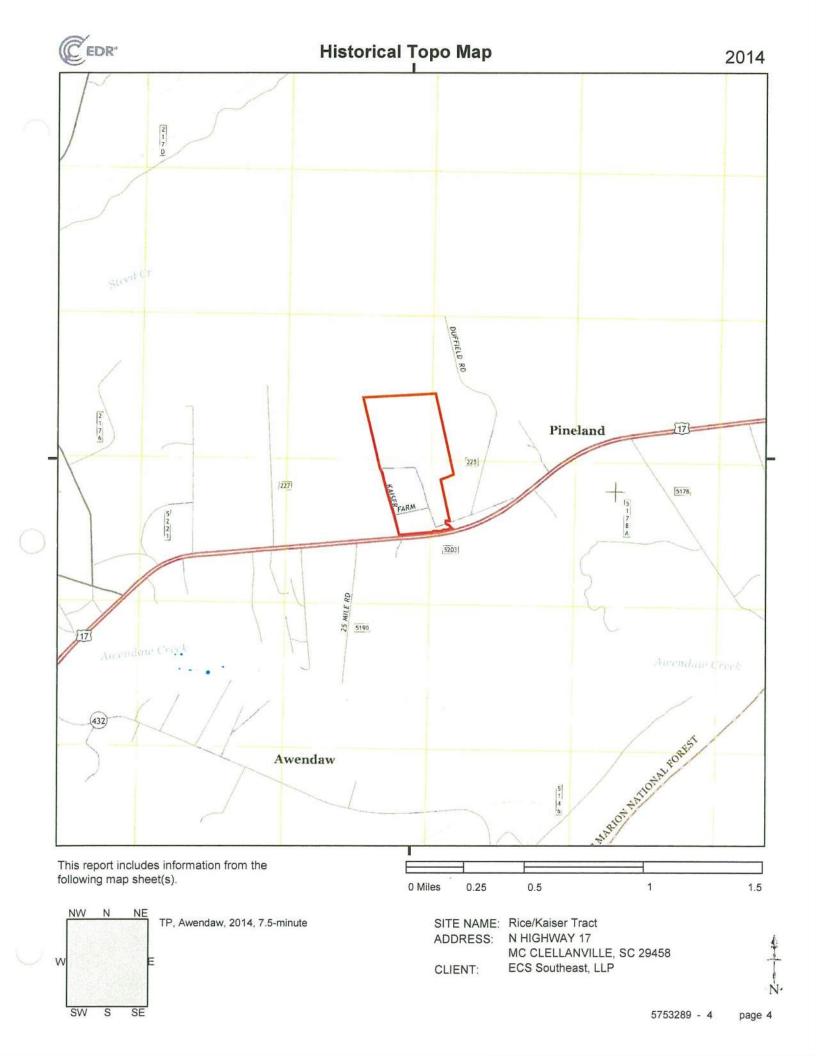
7.5-minute, 24000 Aerial Photo Revised 1973

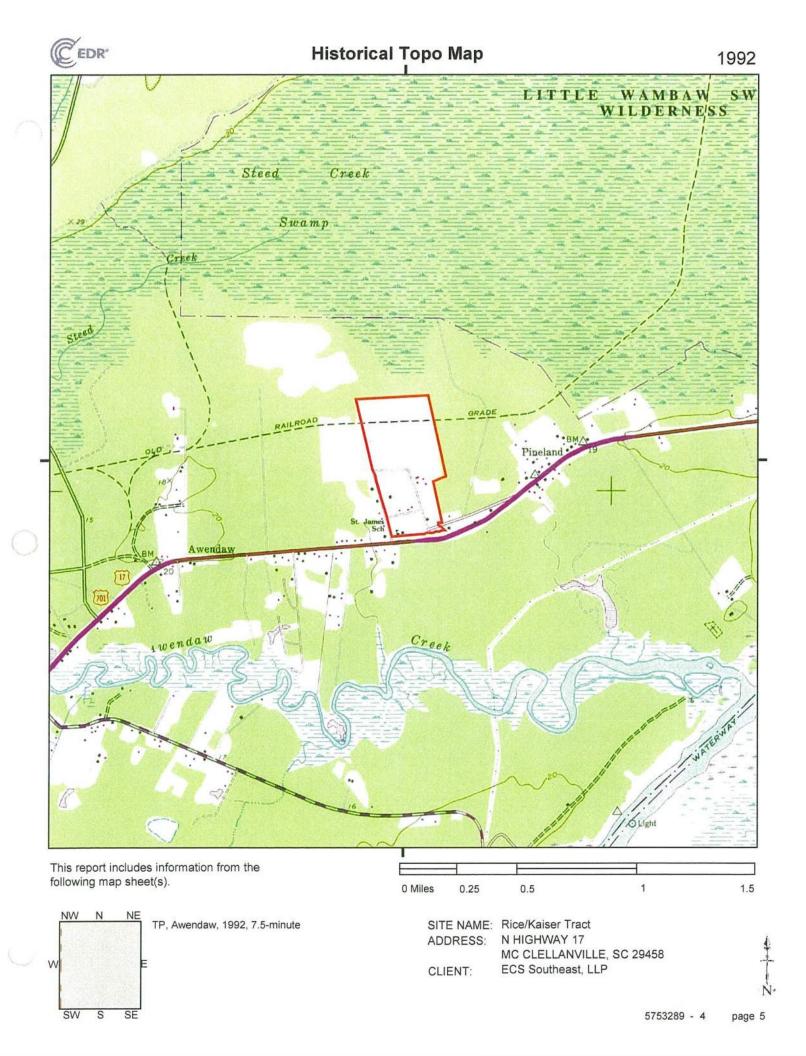
1943 Source Sheets

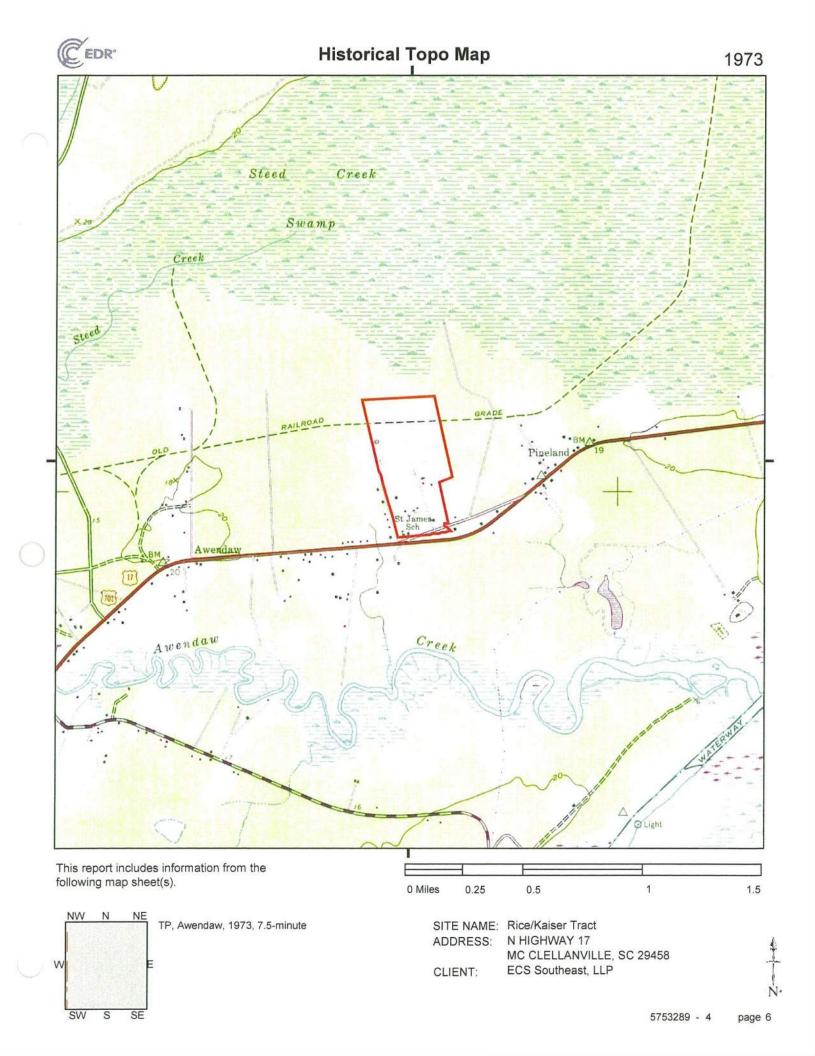


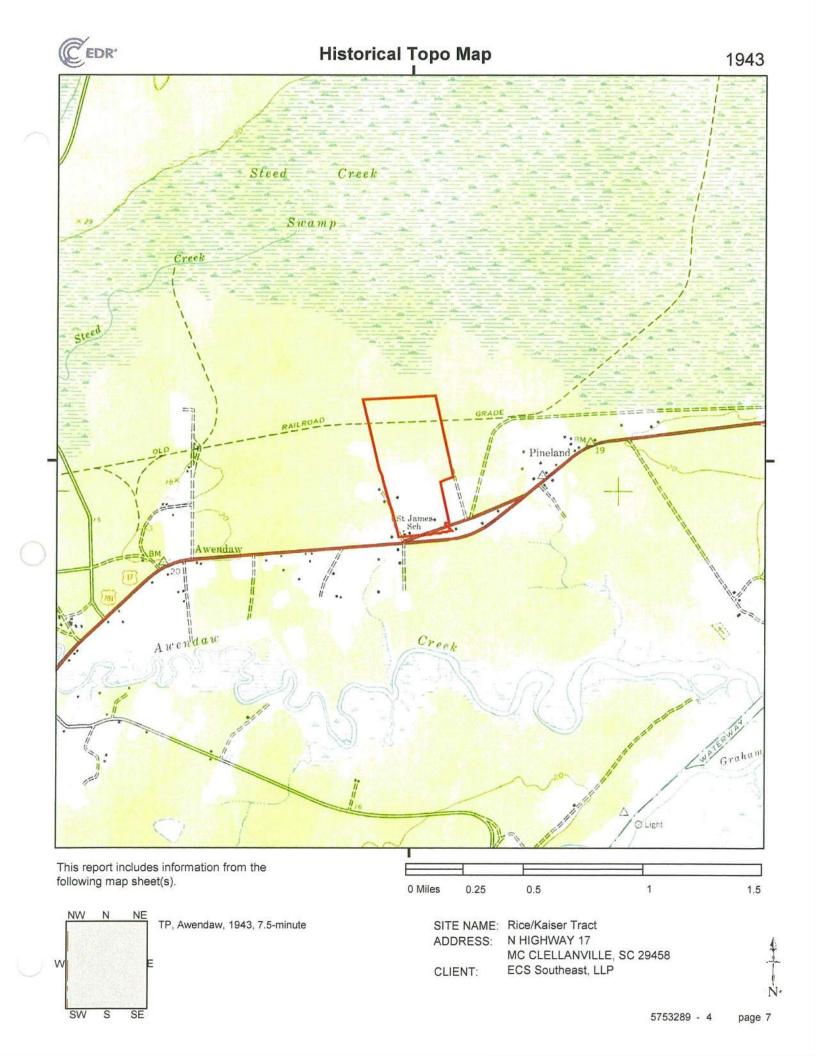
Awendaw

7.5-minute, 24000 Aerial Photo Revised 1942









Rice/Kaiser Tract N HIGHWAY 17 MC CLELLANVILLE, SC 29458

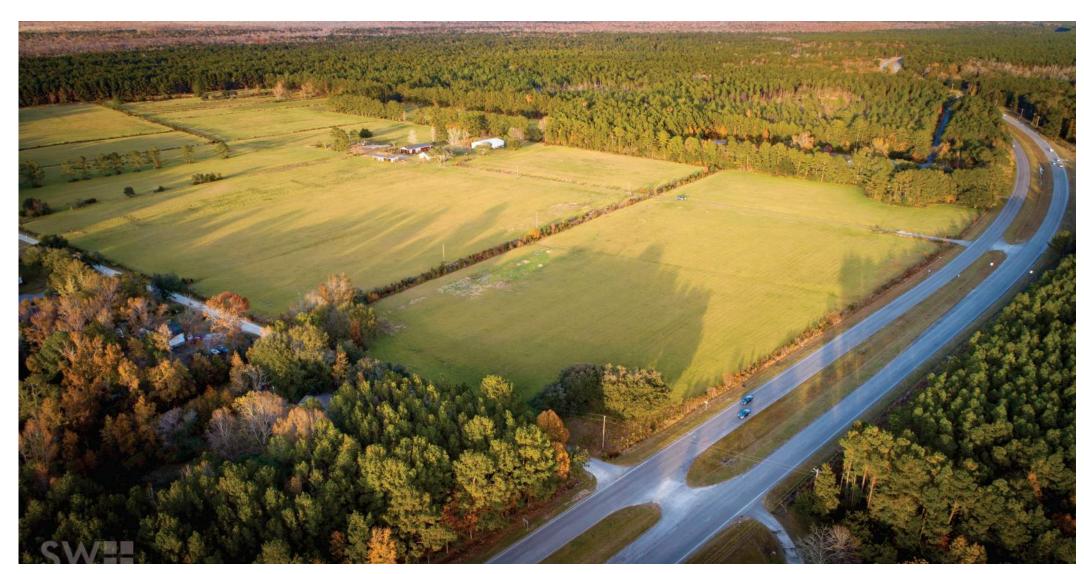
Inquiry Number: 5753289.5

August 19, 2019

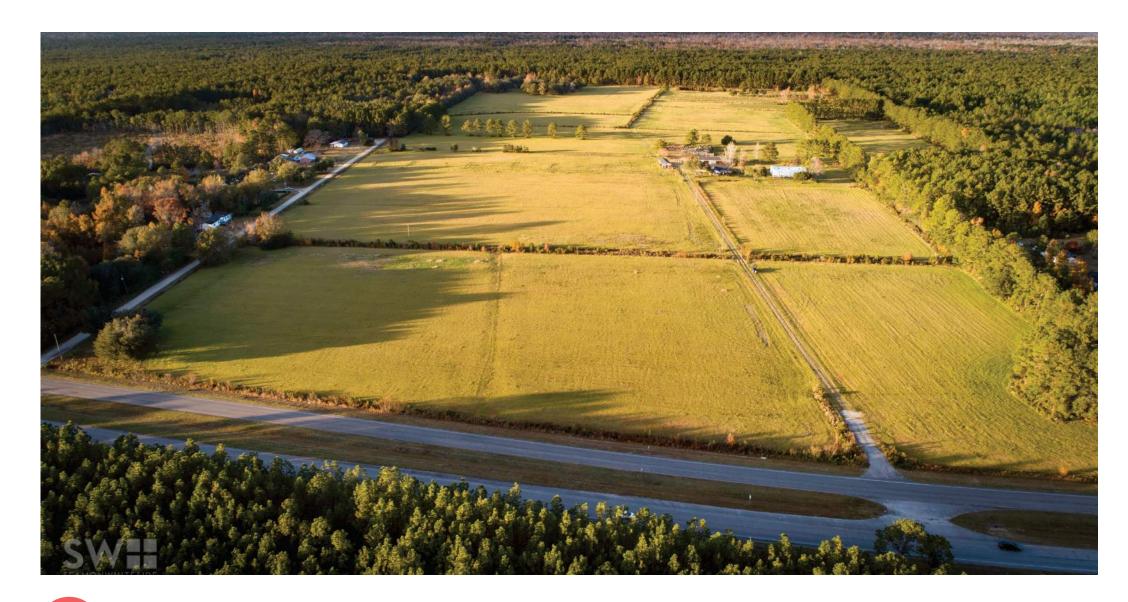
The EDR-City Directory Image Report



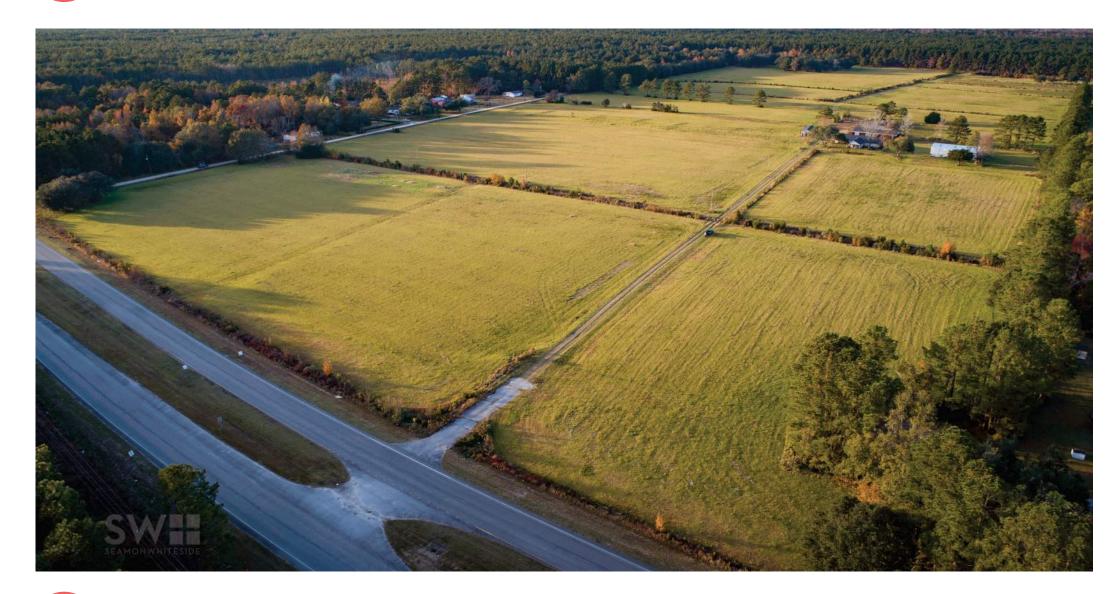
APPENDIX L: SITE PHOTOGRAPHY



VIEW LOOKING NORTHEAST AT SITE FROM HWY. 17



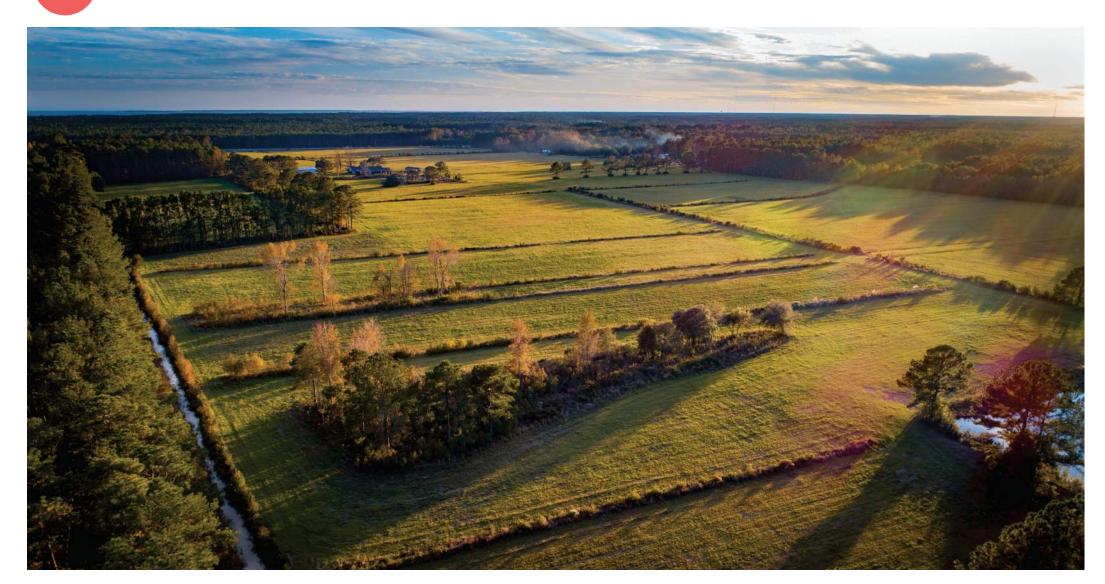
2 VIEW LOOKING NORTH AT SITE FROM HWY. 17



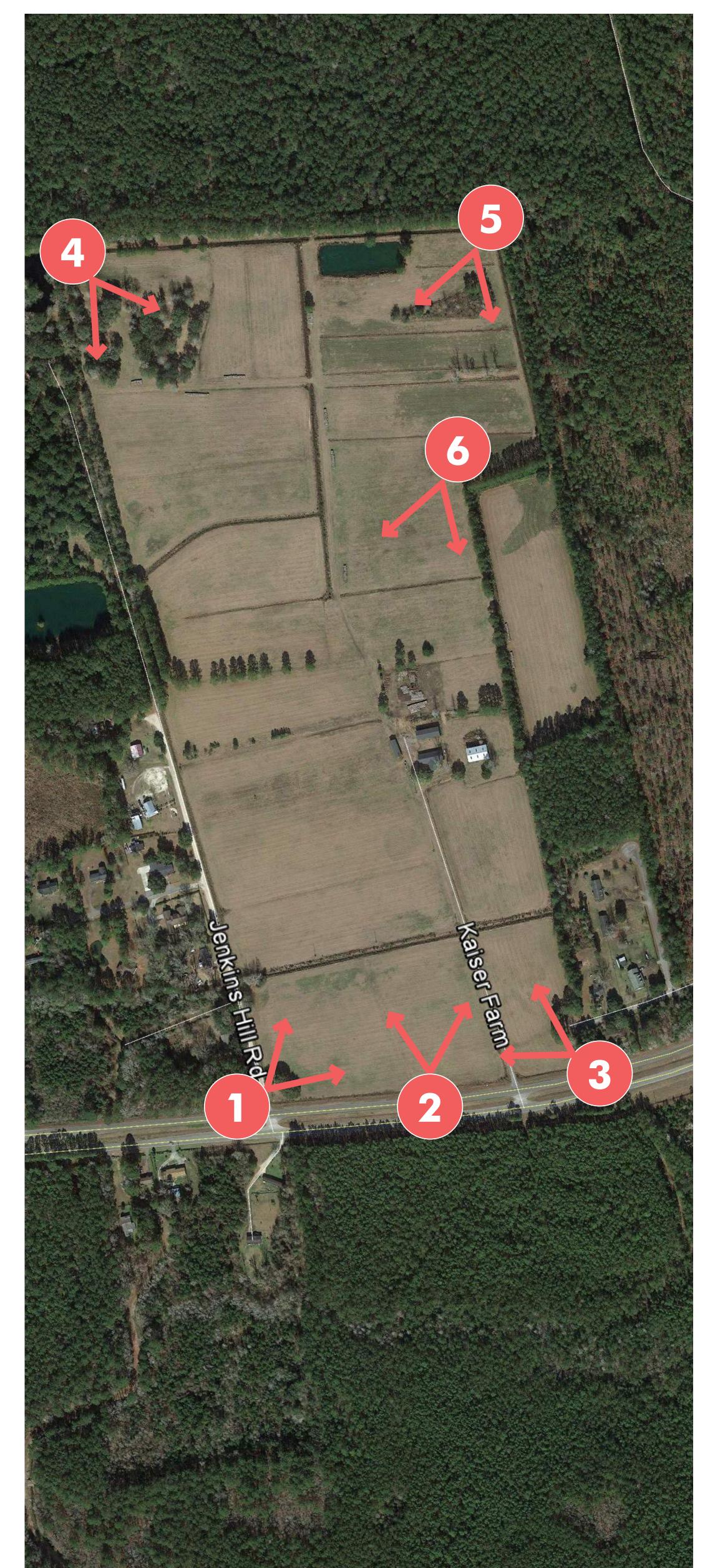
3 VIEW LOOKING NORTHWEST AT SITE FROM HWY. 17



4 VIEW LOOKING SOUTHEAST



5 VIEW LOOKING SOUTHWEST



AERIAL OF PROJECT SITE









APPENDIX M: LETTERS OF COORDINATION



February 19, 2020

Seamon Whiteside C/o: Preston Busbee 501 Wando Park Boulevard, Suite 200 Mount Pleasant, SC 29464

Re: Power Availability for New School Site Located in McClellanville Charleston County, SC TMS 711-00-00-052

Dear Preston:

Berkeley Electric Cooperative will supply the electrical distribution requirements for the above referenced location. We look forward to extending our facilities to meet the needs of this property.

All services that are rendered will be under our service rules and regulations at the time of service. If you have any questions, please don't hesitate to give me a call.

Sincerely,

Kevin Mims

Supervisor of Distribution Design

Kin Aus

KM/ts

Enclosure

Cc: Thomas Barnette, Manager of Construction and Maintenance Nick VanAllen, Awendaw District Line Superintendent Paul Elsey, Awendaw District Service Planner Preston Busbee, Seamon Whiteside (emailed copy) File

Berkeley Electric Cooperative, Inc. is an equal opportunity provider and employer.



DAVID ABRAMS, JD Director Fax: 843.202.6712 dabrams@charlestoncounty.org Lonnie Hamilton, III Public Services Building 4045 Bridge View Drive, Suite B309 North Charleston, SC 29405-7464

843.202.6700

February 13, 2020

Ms. Anna Lewis Seamon Whiteside 501 Wando Park Blvd. Suite 200 Mount Pleasant, SC 29464

RE: TMS# 710-00-00-052

Dear Ms. Lewis,

The Charleston County Emergency Medical Services (EMS) Department acknowledges your intention to rezone the above referenced properties. Charleston County EMS is the advanced life support paramedic first response and transport agency for this location – and all medical and trauma related incidents will need to be reported to this agency. This can be accomplished through the Charleston County Consolidated Dispatch Center by dialing 911.

EMS staff will be available to attend your scheduled Site Plan Review with Charleston County Planning Staff should our input be needed. If you have any questions or concerns please do not hesitate in contacting me.

Sincerely,

James Ciali Assistant Chief

Preston Busbee

From: Mike S. Bowers <MBowers@charlestoncounty.org>

Sent: Thursday, February 27, 2020 11:55 AM

To: Preston Busbee
Cc: Larry D. Hall

Subject: Re: Letter of coordination

To whom it may concern,

Please allow this e-mail to serve as our (Awendaw-McClellanville Consolidated Fire Protection District) part of the required Letter of Coordination for the project at Hwy 17 and Jenkins Hill Road (Kaiser Farm). We provided Fire and First Responder Medical Response to this property as it is part of our Fire Protection District.

If you have any questions, or concerns, please contact me using the information below.

Michael S. Bowers
C-Shift Battalion Chief
Public Information Officer/Training Officer
Awendaw-McClellanville Consolidated Fire District
6384 Maxville Road
Awendaw, SC 29429
Cell (803) 600-7338
Work (843) 928-3000
Call Sign Battalion 902

"In many cases fires don't kill firefighters, and equipment doesn't save them. Decisions Do"

From: Preston Busbee <PBusbee@SeamonWhiteside.com>

Sent: Thursday, February 27, 2020 10:41 AM

To: Mike S. Bowers < MBowers@charlestoncounty.org>

Subject: RE: Letter of coordination

CAUTION: This email originated outside of Charleston County. Do not click links or open attachments from

unknown senders or suspicious emails. If you are not sure, please contact IT helpdesk.

Chief Mike,

Thanks for reaching out.

The specific site is located at Kaiser Farm at TMS 711-00-00-052 and I have attached a location map for reference. The letter would just state that your departments provides fire service for this location.

Thank you and let me know if you have any questions.



2020

SCHOOL SITE INFORMATION

Date Reviewed	2/4/2020	
County	Charleston	

Location US 17 & Jenkins Hill Rd (Off-System) with Duffield Rd (Off-System)

School Type Lincoln Middle & High Schools - Combined Facility

Recommendations

Attending - Rick Holt (Cumming Corp), Eric Aichele (LS3P), Preston Busbee (Seamon Whiteside), Jack Bonnette (OSF), David Meekins (SCDOT)

This property was reviewed for the purpose of constructing a combined Middle and High School facility. The property is located 8 miles west of McClellanville and has approximately 1,185-feet of frontage along US 17 and 1,530-feet along Jenkins Hill Road (Off-System). Proposed student enrollment is 1000 total (500 MS/500 HS) with 250 student parking spaces and 120 staff.

US 17 is a four-lane divided highway (earthen median) with a posted speed limit of 60 MPH and an Annual Average Daily Traffic (AADT) volume of 11,100. Existing left-turn lane provisions at median breaks on US 17 occur at the intersections with Jenkins Hill Road and the Kaiser Farm driveway. A conceptual plan illustrated proposed access occurring from Jenkins Hill Road, the Kaiser Farm driveway, and at the end of Duffield Road. SCDOT indicated that roadway improvements are necessary and include right-turn lanes at all the proposed access locations, modifications to offset and increase storage of the existing left-turn lanes at Jenkins Hill Road and the Kaiser Farm driveway, and a new offset left turn lane at Duffield Road.

Jenkins Hill Road is a narrow dirt road that presently serves several residences, therefore, it was indicated that improvements are necessary to widen and pave to a width of 24-feet and include a four-lane configuration at its intersecting with US 17, consisting of 2-ingress lanes (left/right) and 2-egress lanes (left/right) to accommodate the increase and change in use by school traffic. Since Jenkins Hill Road is an Off-System road, the engineer should contact Charleston County to inquire about any standards and requirements they may have regarding this construction.

Duffield Road is approximately 18-feet wide and 1,650-feet long that presently serves several residences and dead ends at the east side of the property. It was proposed as low volume use only for staff or emergency access. Since Jenkins Hill Road is also an Off-System road, the engineer should contact Charleston County to inquire about any guidelines they may have regarding the proposed change in use.

All roadway improvements are to be completed prior to the school's opening and the associated costs are the responsibility of the School District. These cost could include additional right-of-way and any above or below ground utility relocations. Therefore, the School District should anticipate and budget accordingly for these improvements as part of the overall construction costs.

Finally, SCDOT recommended that the architect and engineer hired by the School District work closely with SCDOT's Traffic Engineering Headquarters office in Columbia, SC (David Meekins) on any conceptual site layout. The school site and roadway improvement plans would need to be reviewed and concurred with by SCDOT's Traffic Engineering Headquarters office prior to applying online for an encroachment permit from SCDOT.

Office of the Sheriff



County of Charleston

Sheriff J. Al Cannon, Jr.

February 26, 2020

Seamon, Whiteside and Associates, Inc. Attn: Mary Martinich 501 Wando Park Blvd. Suite 200 Mt. Pleasant, SC, 29464

re: Letter of Coordination

Ms. Martinich,

The Charleston County Sheriff's Office acknowledges your intention to develop property located in the area of 1119 Jenkins Hill Road, Awendaw, South Carolina, 29429. This location is currently under the jurisdiction of this agency.

Please understand that *all* law enforcement matters will need to be reported to this agency. This can be accomplished by calling the **Charleston County Consolidated Dispatch Center** at **843-743-7200** or dialing **911 for emergencies**. Additional information can be accessed on our agency website at www.ccso.charlestoncounty.org.

If you have any questions, feel free to contact this office via telephone or by email.

Regards,

Sgt. H. M. Phillips

Sergeant Harold M. Phillips Community Affairs Charleston County Sheriff's Office (843) 529-6221 hphillips@charlestoncounty.org

Judicial Center

Preston Busbee

From: McCall, Danny W - Taylors, SC <dwayne.mccall@usps.gov>

Sent: Monday, January 27, 2020 3:13 PM

To: Preston Busbee

Cc: Nelson, Ronice N - Mcclellanville, SC; McCall, Danny W - Taylors, SC

Subject: RE: District 1 Middle High School Coordination Letter

Mr. Busbee,

Thank you for contacting the US Postal Service. Below is the coordination information requested.

The Postal Service will deliver mail to any customer provided the delivery points meet the following requirements:

- Roads or Streets must be passible.
- Roads or Streets must be non-private.
- Roads or Streets must be properly maintained.
- Mail carriers must not be subjected to loose or feral animals.
- A centralized location must be established to prevent the mail carrier from leaving the conveyance of the vehicle and traveling on foot a long distance. Location must be approved by Local Postal Official.
- The delivery point is established with safety considerations for mail carrier and customer.
- The delivery point offers a means to properly turn around without backing.
- The delivery point must not exceed half mile one way from the mail carrier's previous delivery point.
- The delivery apparatus must be postal approved.
- There must not be any barriers, gates, ravines, ditches or load limited bridges preventing the mail carrier from safely and efficiently conducting mail delivery.

It is highly recommended you or a representative contact the Awendaw/McClellanville Postmaster, Ms. Ronice Nelson, for further dialogue on the selected area and discuss the mode of mail delivery and its location.

Thank you,

Wayne McCall
Operations Programs Support Specialist
Growth Management Coordinator
Greater S.C. District
864-244-1896
803-206-4862

From: Preston Busbee [mailto:PBusbee@SeamonWhiteside.com]

Sent: Monday, January 27, 2020 3:04 PM

To: McCall, Danny W - Taylors, SC <dwayne.mccall@usps.gov>

Cc: Anna Lewis <ALewis@SeamonWhiteside.com>; Betsy Ellingson <BEllingson@SeamonWhiteside.com>; Mary Martinich <MMartinich@seamonwhiteside.com>

Subject: [EXTERNAL] District 1 Middle High School Coordination Letter

Danny,

I hope you are well. We are working on a proposed Middle/High School located in McClellanville off of HWY 17. The site location is known as Kaiser Farm and is located at TMS: 710-00-00-052. I have attached a site location map for your reference.

In order for this project to move forward, we are submitting a Planned Development to Charleston County. As part of the guidelines, the county is asking us to compile Proof of Coordination letters from several different service providers. Can you provided a USPS proof of coordination for this proposed school site.

Thank you for your help.



Preston Busbee
Civil Engineering Project Manager
(803) 606-4972 cell
PBusbee@SeamonWhiteside.com
www.seamonwhiteside.com

ZONING CHANGE APPLICATION

CASE 222-02-70-00114 PD 711-00-00-052

provided and all information is correct.

Signature of Owner(s)

Planner's Signature

PROPERTY INFORMATION

	PROPERTY INFORMATION					ПППП	4045 Bridge View Drive North Charleston, SC 29405
CURRENT DISTRICT		UESTED DI	STRICT P	D	CHARLESTON (843) 202-7200 1-800-524-7832 Fax: (843) 202-7222		
	10000052	00.004	F0		SOUTH	CAROLINA	
CITY/AREA OF COUN			58				
STREET ADDRESS	0 N. Highway	17					ACRES 107.2 ac.
DEED RECORDED:	воок0510	_PAGE	591	DATE	10/13/2015		
PLAT RECORDED:	BOOKXXX-UNREC	PAGE		DATE	A	PPROVAL#	
	API	PLICAN	Γ—OWNE	R—REP	RESENTATIV	<u>/E</u>	
APPLICANT	Seamon Whites	ide, & A	ssociates		HOME PHONE		
MAIL ADDRESS	501 Wando Parl	Suite 201		WORK PHONE	843-884	l-1667	
CITY, STATE, ZIP	Mt. Pleasant, SC	29464			CELL PHONE		
					EMAIL	mmartin	ich@seamonwhiteside.d
OWNER (IF OTHER THAN APPLICANT	Quarry Lake Pla	ntation l	LLC	•	HOME PHONE		
MAIL ADDRESS	PO Box 973			WORK PHONE			
CITY, STATE, ZIP	Charleston, SC 29403				CELL PHONE		
					EMAIL		
REPRESENTATIVE Angela Barnette, CCSD					HOME PHONE		
MAIL ADDRESS	3999 Bridge View Drive			WORK PHONE	(843) 5	566-1995	
CITY, STATE, ZIP	North Charleston SC 29405				CELL PHONE		
					EMAIL ar	nge <u>la_</u> barne	ette@charleston.k12.sc.
			CERTIF	ICATIO	<u>N</u>		
This application will be returned to the applicant within fifteen (15) business days if these items are not submitted with the application or if any are found to be inaccurate: ✓ Copy of Approved and Recorded ✓ Copy of Current Recorded Deer ✓ Copy of Signed Restricted Cov ✓ Copy of Signed Posted Notice A ✓ Fee \$150.00 plus \$10.00 per accurate.			d to the property (C enants Affidavit Affidavit	Owner's signature	e must match documentation.)		
I (we) certify that A		mussele				1 10000 00000 0000000000000000000000000	oning change request. I also
accept the above red	an ements for subjuitting	my zoning	change appli	cation, 10	tile best of my Kr	owieage, all red	quired information has been

Zoning/Planning

Department Lonnie Hamilton, III **Public Services Building**

OFFICE LISE ONLY

Zoning Inspector's Signature

Signature of Applicant/ Representative (if other than owner)

Date

746 27, 2020

Date

OFFICE USE ONLY									
Amount Received	_Cash ? □	Check? [] #	Invoice Number						



Community Meeting Memo

PROJECT NAME: HIGH SCHOOL/MIDDLE SCHOOL IN

AWENDAW PD

PROJECT NUMBER: 8076

PREPARED BY: MEM DATE: 2/27/2020

COMMUNITY MEETINGS HELD FOR THE PD:

1. Community meeting #1

- a. Location: St. James Santee Elementary School in Awendaw
- b. Date: December 5, 2020
- c. 58 Participants
- d. Activities: Presentation, Open House, Community Table Programming Game & Feedback
- 2. Community meeting #2
 - a. Location: St. James Santee Elementary School in Awendaw
 - b. Date: January 21, 2020
 - c. 76 Participants
 - d. Activities: Presentation, Open House, Community Feedback
- 3. Community meeting #3
 - a. Location: Wando Mt. Pleasant Library in Mt. Pleasant
 - b. Date: January 23, 2020
 - c. 23 Participants
 - d. Activities: Presentation, Open House, Community Feedback

See attached presentations and flyers for each community meeting.

CHARLESTON COUNTY SCHOOL DISTRICT

SECOND COMMUNITY MEETING

TOPIC: Next Steps for Planning Development
Zoning Process for Future Middle/High
School in Awendaw

All Community Members Welcome

Tuesday, January 21, 2020 6:00pm-7:00pm St. James-Santee Elementary 8900 North Hwy 17 McClellanville, SC 29458

Please visit CCSD's Planning & Real Estate Webpage to review the Powerpoint from the previous meeting.

"Coming together is a beginning. Keeping together is progress. Working together is success." - Henry Ford





CHARLESTON COUNTY SCHOOL DISTRICT

SECOND COMMUNITY MEETING

TOPIC: Next Steps for Planning Development Zoning Process for Future Middle/High School in Awendaw

All Community Members Welcome

Thursday, January 23, 2020 6:00pm-7:00pm Wando Mt. Pleasant Library 1400 Carolina Park Blvd Mt Pleasant, SC 29466

Please visit CCSD's Planning & Real Estate Webpage to review the Powerpoint from the previous meeting.

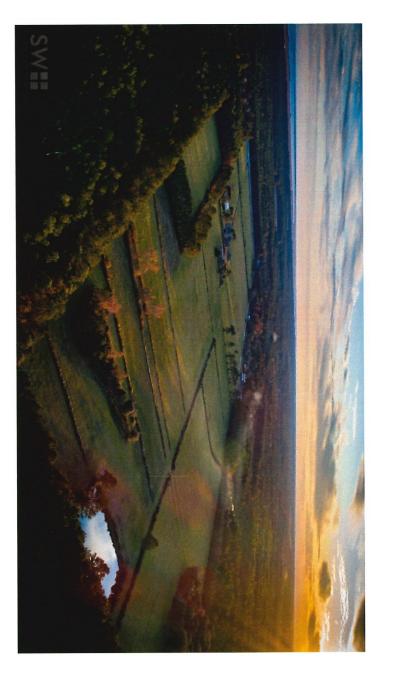
"Coming together is a beginning. Keeping together is progress. Working together is success." - HENRY FORD





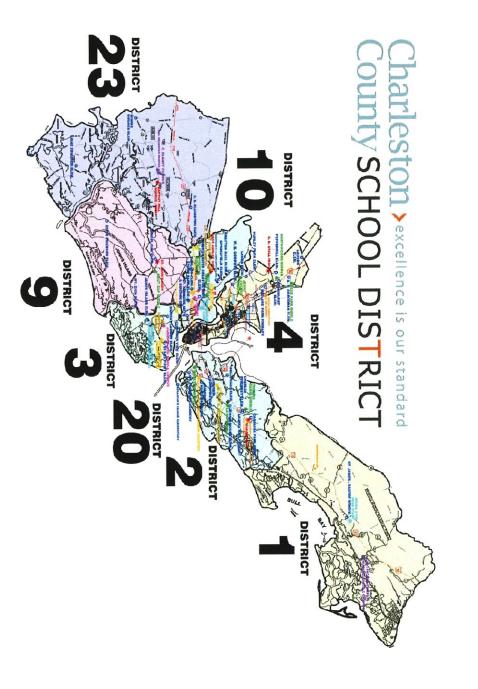
Charleston > excellence is our standard County SCHOOL DISTRICT





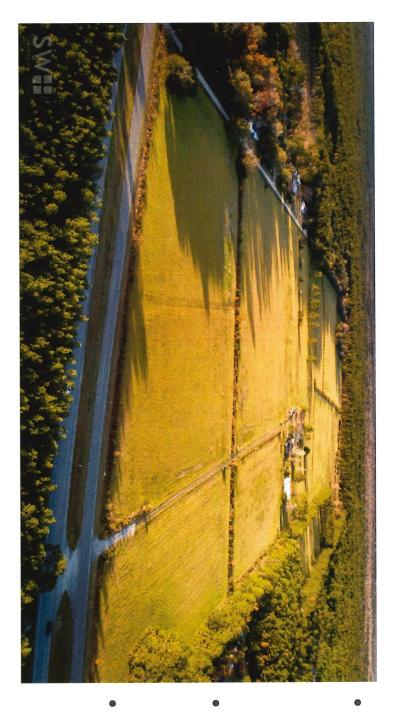
Planned Development Proposal

Planning for the future Middle/High School December 5, 2019



- Introduction & Welcome
- Meeting and Project Goals
- 3. Context and Site
- 4. Planned Development
- Open House Q&A

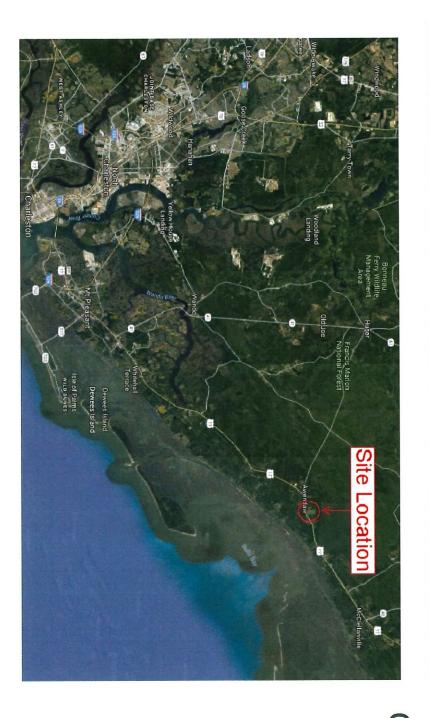
INTRODUCTION & VEIGOM



- Director of Planning and Real Estate, Charleston County School District
- SeamonWhiteside Consultants
- Landscape Architecture, Engineering, Site Planning

- Inform the community about the Middle/High School (MS/HS) Planned Development (PD) in District 1
- Review the existing conditions and Planned Development procedure
- Create a transparent process
- Gain input and feedback on the MS/HS in District 1
- Incorporate feedback in the PD
- Develop PD with public support

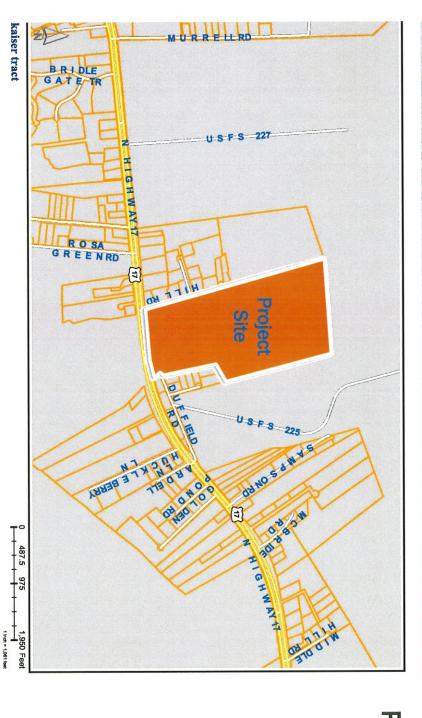
CONTRA AND WIT



Context

- CCSD Board of Trustees instructed staff to acquire a piece of property for a future MS/HS
- Various sites have been evaluated since directive
- Size of school
- 500 Middle School
- 500 High School
- 1,000 Students Combined
- Build out has yet to be determined

CONTEXT & STITE



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Project Data

- +/- 107 highland acres
- 0 marsh acres
- Site is currently used as a farm
- Property is has few trees
- Great access
- Located on Highway 17
- Ability to support school facilities & programming

WHAT IS A PLANNED DEVELOPMEN



Planned Development

The PD, Planned Development, zoning district regulations are intended to encourage achievement of the goals of the Charleston

County Comprehensive Plan and to allow flexibility in development of property that proposes a single or multiple use (s) that will result in improved design, character, and quality of new or redesigned developments and preserve natural and scenic features of open spaces.

PLANNED DEVELOPMEN



Charleston County SC



CURRENT ZONING

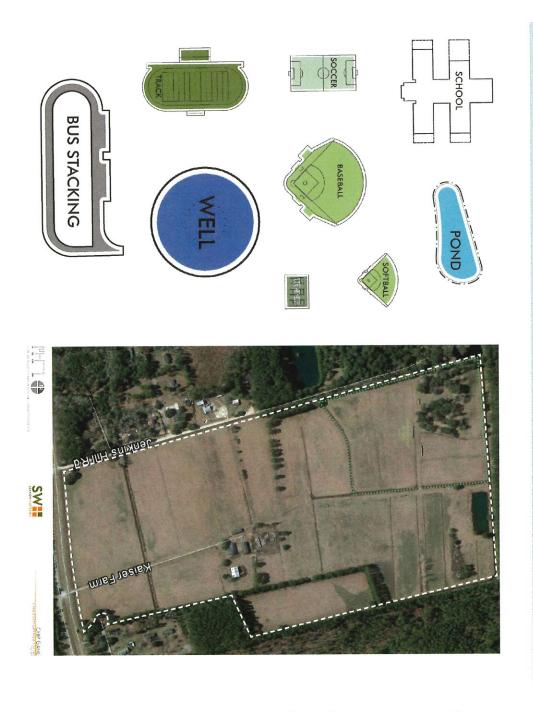
- AG-10, Agricultural Preservation District
- Implements the Agricultural Preservation policies of the Comprehensive Plan
- Comp Plan Rural Area Future Land Use: "Designating prominent locations with good access an visibility from major roads for civic or communityoriented uses such as churches and schools" pg. 28
- Maximum Density......10 dwelling units
- (1 dwelling unit per 10 acres)

TO DEVELOR HIS



PD Process & Schedule

- December 9th Public Workshop at Charleston County Planning Commission
- Month of January 2nd Community Meeting
- February 28th Submit PD
- April 13th Planning Commission Meeting
- May/June County Council
- (3 Readings)



- Visit Table 1, 2, or 3 look on your nametag to find your table number
- Play the Chip Game!
- Place program elements on the plan where you would like to see them
- Provide feedback with comment sheets and to consultant team member





Planned Development:

Future Middle/High School in Awendaw/McClellanville

Community Workshop 2

Planning for the future Middle/High School January 21, 2020

Goals

- Review status to date of HS/MS in Awendaw/McClellanville
- Review the existing conditions and Planned Development procedure
- Review conceptual plan
- Address questions from 1st Community Meeting
- Gain input and feedback on the MS/HS
- Create a transparent process

Community Meeting 1 December 5 Completed!

Workshop-Planning Commission Completed! Public

> Community Meeting 2

Mt. Pleasant Awendaw/

January

December 9th

Submit PD to County

February 28

Planning Commission Meeting

April 13

County Council (3 Readings) -5/19, 5/28, 6/2 Public Hearing/County Council-5/5 Committee-5/14 Planning/Public Works



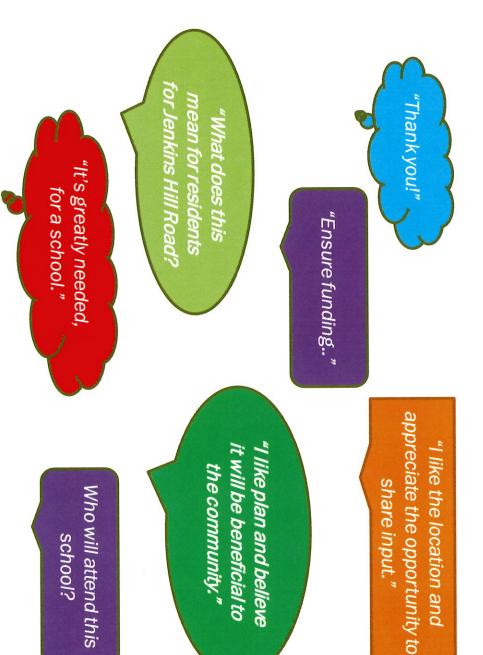






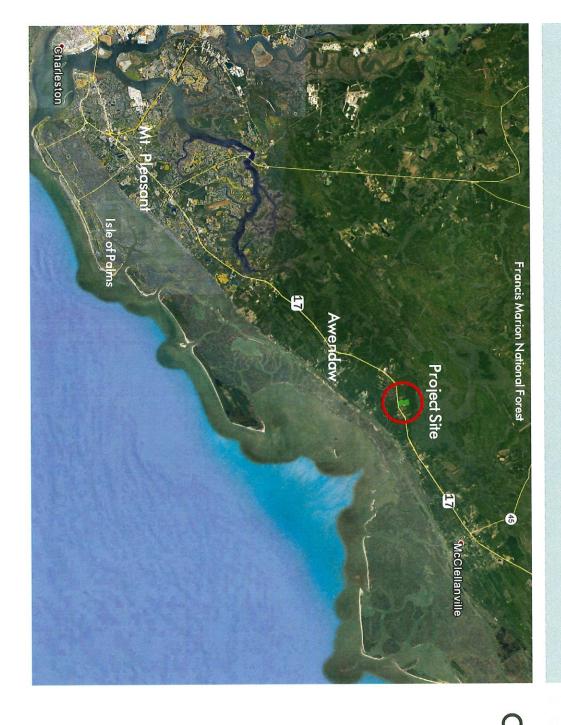
PUBLIC MEETING

- Thursday, Dec. 5th, 2019
- St. James Santee Elementary
 58 Participants
- Game Presentation, Open House &
- Presentation posted on CCSD Website
- participants Continued outreach to



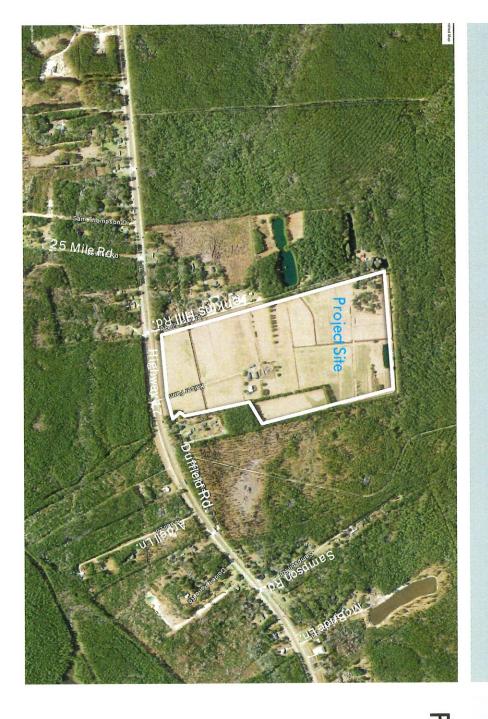
FEEDBACK

- Community access
- State of the art
- Facilities similar to other schools
- Technology
- Band, Music and Theater
- Vocational education
- Swimming pool Football Field
- When will the school be built?
- lines General concern over attendance
- Wando High & Mt. Pleasant schools Concern for current students leaving



Context

- School located between Awendaw/McClellanville
 500 Middle School
 500 High School
 1,000 Students Combined



Project Data

- +/- 107 highland acres
 0 marsh acres
- Site is currently used as a farm Property has few trees

- Great accessLocated on Highway 17Ability to support school facilities & programming



Charleston County SC



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CURRENT ZONING

- AG-10, Agricultural Preservation District
- Implements the Agricultural Comprehensive Plan Preservation policies of the
- Use: Comp Plan Rural Area Future Land

and schools" pg. 28 or community-oriented uses such as churches access and visibility from major roads for civic "Designating prominent locations with good

- Maximum Density= 10 dwelling unit
- (1 dwelling unit per 10 acres)



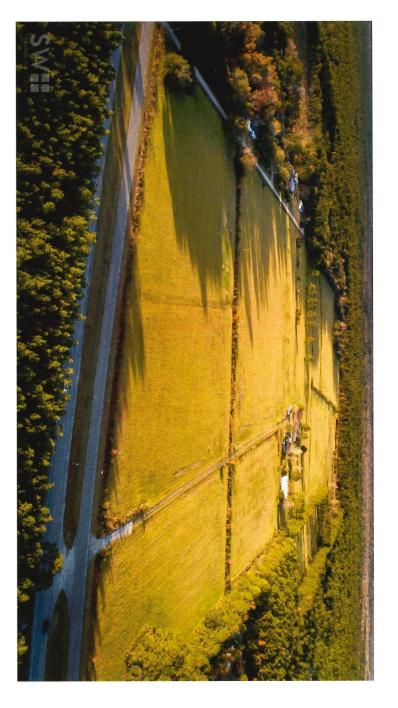
CONCEPT PLAN

- Plan elements can change basec on community feedback
- Plan Elements
- School

- ParkingSports Fields (Football, TrackOpen SpaceBuffers Access Bus Stacking
- Waste Treatment Area & We



OTEN HOUSE CO



seamonwhiteside.com

STAY IN THE LOOP!

Visit CCDS's Planning and Real Estate Webpage for updates

https://www.ccsdschools.com/divisions/operations/operational_planning





Planned Development:

Future Middle/High School in Awendaw

Community Workshop 2

Planning for the future Middle/High School January 21, 2020 January 23, 2020

Goals

- Review status to date of HS/MS in Awendaw
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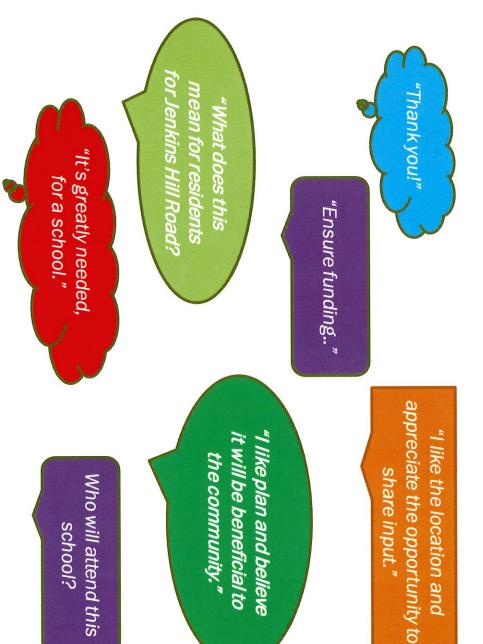




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Community Meeting 1 December 5 Completed!

Completed!

Planning Commission Public Workshop-December

9th

Community Meeting 2

January 21/23 Mt. Pleasant Awendaw/

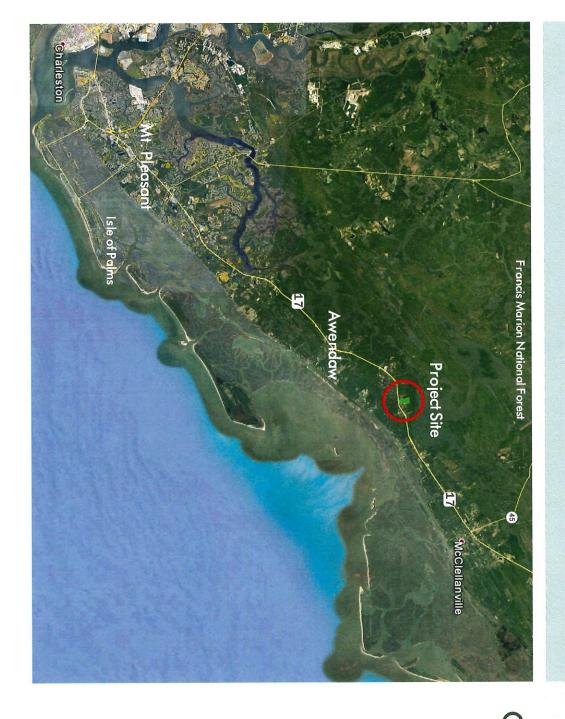
> February 28 **Submit PD** to County

> > Planning Commission Meeting

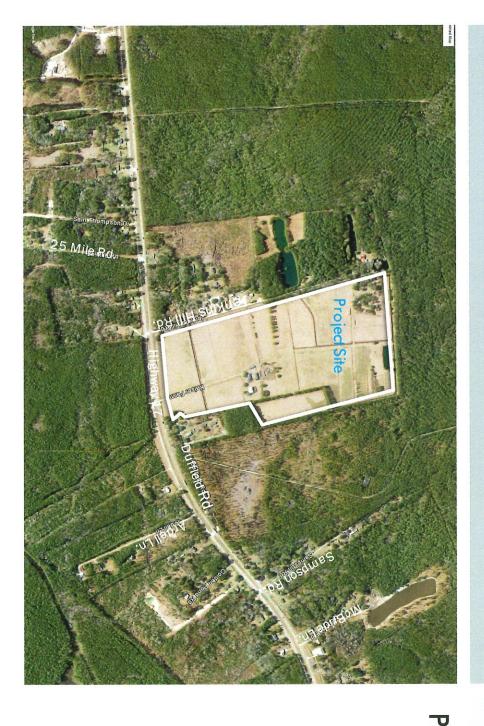
April 13

County Council 5/5

Planning/Public Works Committee-5/14 (3 Readings) -5/19, 5/28, 6/2 County Council



- Context & Location
 School located between Awendaw/McClellanville
 500 Middle School
 500 High School
 1,000 Students
 Combined



- Project Data+/- 107 highland acres0 marsh acresSite is currently used as a farm
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- Great accessLocated on Highway 17Ability to support school facilities & programming



Charleston County SC



Author: Charleston County SC Date: 11/26/2019

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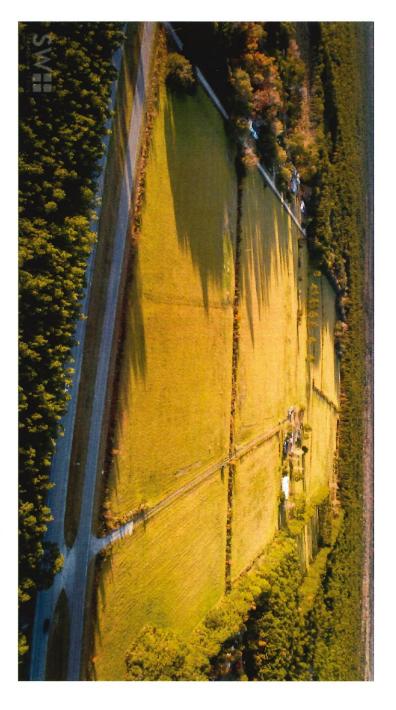


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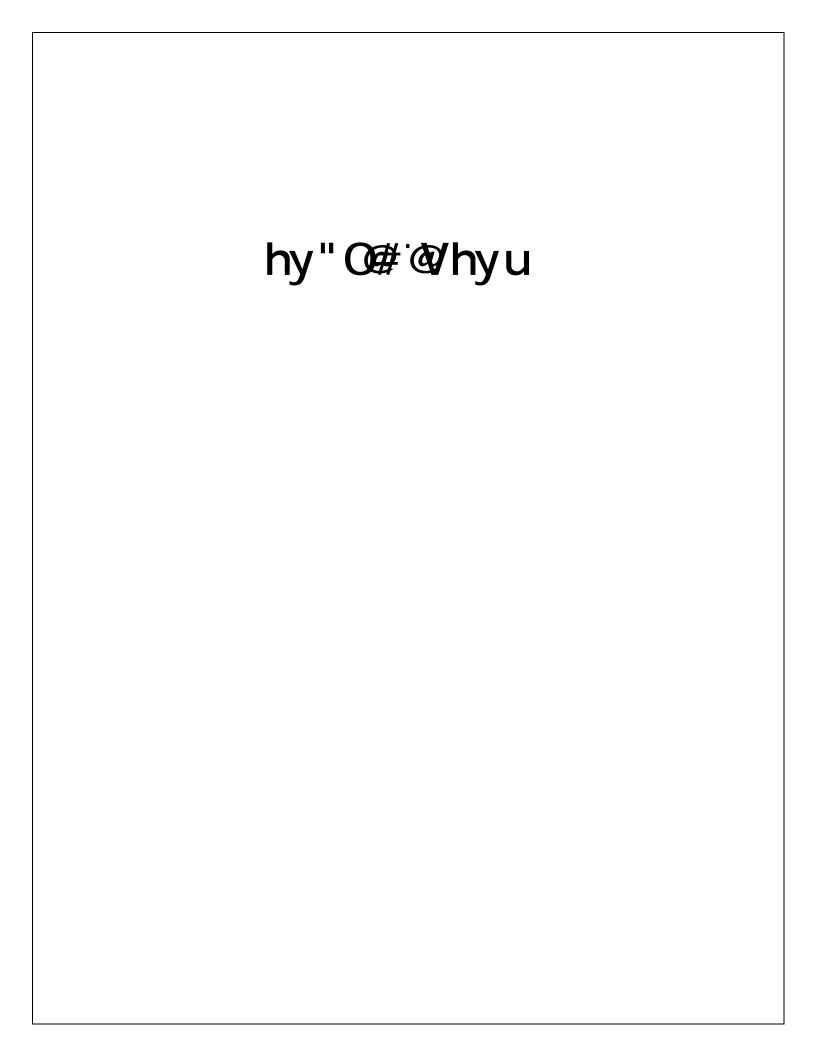


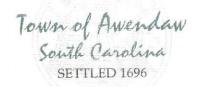
seamonwhiteside.com

STAY IN THE LOOP!

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Mayor Miriam C. Green

June 19, 2020

Mr. Joel Evans, AICP Charleston County Planning Commission 4045 Bridge View Drive North Charleston, SC 29405-7464

Dear Mr. Evans:

The Town of Awendaw would like to comment on the application by the Charleston County School District to rezone TMS # 711-00-00-052 located at 7820 N. Highway 17. The Town fully supports the efforts to built a new high school in the Awendaw area. We worked diligently with the Board to find a site that meets their needs and to provide utilities to a site in the Town. We do not, however, support the construction of a school on the selected site. A school is more than a box to be located wherever a site can be found that is easy to build on. It should be an integral part of the community. This site is very isolated and contributes nothing to the community at large outside the education benefits for the students.

The Town feels that the CCSD can continue to find a site that fits into the community rather than being an isolated island. There are other pieces of property on Highway 17 near the Birds of Prey that would be suitable for a school. Some of these are owned by the same owner as the subject parcel. The Town will fully assist the CCSD to seek another site that not only fits their program but furthers the goals and objectives of the Town in making our community a better place to live, work and play.

We request the Planning Commission defer action on this site until adequate exploration of other sites can be accomplished. This school is too important to our community to accept a site that is not the best it can be.

Respectfully Submitted

D. William Wallace, FAICP

Town Administrator

Mayor Rutledge B. Leland, III

Town Council
Aaron L. Baldwin
Christopher B. Bates
Robert J. Gannon
James E. Scott

Phone: (843) 887-3712

South Carolina
405 Pinkney Street

405 Pinkney Street McClellanville, SC 29458 Town Administrator Michelle A. McClellan

Zoning Administrator Kathryn S. Basha

Fax: (843) 887-3094

Monday, July 27, 2020

Charleston County Council 4045 Bridge View Drive N. Charleston, SC 29405

Dear Council Members:

I am writing to express support of Charleston County School District's request to rezone TMS 711-00-00-052 (Kaiser Farm Tract) located at 7820 N. Highway 17 from the Agricultural Preservation 10 Zoning District to the Planed Development, PD-176, High School/Middle School in Awendaw Zoning District.

The location of the proposed school is within a reasonable driving distance to the Town of McClellanville and we feel that having a school at this location would be a positive step for the future as growth in the McClellanville area continues to rise.

McClellanville Town Council supports the School District's application to rezone the Kaiser Farm Tract to Planned Development. Please do not hesitate to contact me if you have any questions. Thank you for your time and consideration.

Sincerely,

Rutledge B. Leland III, Mayor

Town of McClellanville