

All property owners, tenants, and neighborhood associations within 300 feet of this rezoning have been notified per UDO Sec. 2.2.11 *Public Notification*.

BACKGROUND INFORMATION:	
Location:	8108 Jenks Rd, 1508 Wimberly Rd, & 1440 Wimberly Rd
Applicant:	Wood Partners
Authorized Agent:	Matthew Carpenter, Parker Poe
Owners:	Terry Cichocki, DJ 1300 HOLDINGS LLC, & Terry D Poole
PROJECT DESCRIPTION:	
Acreage:	+/- 13.55 acres
PINs:	0722673959, 0722682430, & 0722681610
Current Zoning:	Rural Residential (RR)
Proposed Zoning:	Planned Unit Development-Conditional Zoning (PUD-CZ)
Current 2045 Land Use Map:	Office Employment/Commercial Services
If rezoned as proposed, the	
2045 Land Use Map Designation	1
will change to:	High Density Residential
Town Limits:	In ETJ

ADJACENT ZONING & LAND USES:		
	Zoning	Land Use
North:	Planned Unit Development- Conditional Zoning (PUD-CZ #21CZ01 & 16CZ30)	Wimberly Rd; Single-family residential (The Park at Wimberly); HOA open space and Single-family residential (The Preserve at White Oak Creek Subdivision)
South:	Planned Unit Development- Conditional Zoning (PUD-CZ # 22CZ01 & 12CZ10)	Jenks Rd; Vacant; Apartments (Westford Apartments)
East:	Planned Unit Development- Conditional Zoning (PUD-CZ #21CZ09 & 16CZ30)	Wimberly Rd; Single-family residential (The Preserve at White Oak Creek Subdivision); Future Commercial (Alderwood PUD)
West:	Rural Residential (RR)	Water treatment facility

EXISTING CONDITIONS:

The site consists of three (3) parcels totaling +/- 13.55 acres located north of Jenks Road, and west of Wimberly Road. The northern and southernmost properties contain single-family dwellings and accessory buildings while the central property is primarily cleared. The southern lot is primarily wooded while the other properties have little vegetation.

NEIGHBORHOOD MEETING:

The applicant conducted two neighborhood meetings on May 22, 2024 and April 15, 2025. The neighborhood meeting reports are attached.

2045 LAND USE MAP:

The 2045 Land Use Map designates the site as Office Employment/Commercial Services. This designation does not support the residential uses proposed with Altera Heights PUD. If the properties are rezoned as proposed, the 2045 Land Use Map will automatically be amended to High Density Residential per NCGS 160D-605(a).

STAFF REPORT Rezoning #24CZ11 Altera Heights PUD

May 27, 2025 Town Council Meeting



WCPSS COORDINATION:

A Letter of Impact from Wake County Public School System (WCPSS) was received for this rezoning and is included in the staff report packet. WCPSS indicates that high schools within the current assignment area for this rezoning/development are anticipated to have insufficient capacity for future students; transportation to schools outside of the current assignment area should be anticipated. School expansion or construction within the next five years may address concerns at the high school level. Possible long-term solutions may include capping students out to schools with available seats (not very proximate), reassignments, or calendar changes.

PLANNED UNIT DEVELOPMENT PLAN:

The applicant is proposing a Planned Unit Development with uses and development standards as follows:

Proposed Uses:

The Rezoned Lands may be used for, and only for, the uses listed immediately below. The permitted uses are subject to the limitations and regulations stated in the UDO and any additional limitations or regulations stated below. For convenience, some relevant sections of the UDO may be referenced; such references do not imply that other sections of the UDO do not apply.

Residential

- Multi-family or apartment
- Condominium

Recreational

- Greenway
- Park, Active
- Park, Passive
- Recreation Facility, private

Utilities

• Utility, minor

Architectural Conditions:

The proposed development offers the following architectural controls to ensure a consistency of character throughout the development, while allowing for enough variety to create interest and avoid monotony. Changes to the exterior materials, roof, windows, doors, process, trim, etc. are allowable with administrative approval at the staff level. Further details shall be provided at the time of Site Plan submittal. The following conditions shall apply:

Multi-Family/Apartments/Condominiums:

- 1. Vinyl siding is not permitted; however, vinyl windows, decorative elements, and trim are permitted.
- 2. Rear and side elevations of units that have right-of-way frontage shall have trim around the windows.
- 3. A minimum of three of the following features shall be used on each building:
 - a. Decorative shake
 - b. Board and batten
 - c. Decorative porch railing/posts
 - d. Shutters
 - e. Decorative/functional air vents on roof or foundation
 - f. Recessed windows
 - g. Decorative windows
 - h. Decorative brick/stone
 - i. Gables
 - j. Decorative cornices
 - k. Tin/metal roof
- 4. Garage doors must have windows, decorative details, or carriage-style adornments on them.
- 5. Windows that are not recessed must be trimmed.





Proposed Design Controls:

Maximum Residential Units:	300
Maximum Building Height:	60 ft & 4 stories *
Maximum Built-Upon Area:	65%

Building Setbacks:	Multi-family
Front:	10 ft
Side:	10 ft
Rear:	10 ft
Corner:	10 ft
Building side to side:	N/A
From Buffers/RCA:	10 ft
Minimum building separation:	30 ft

* As shown on Sheet C1.1 of the associated plan set for this 24CZ11 Altera Heights PUD, buildings located in the north of the site and adjacent to Wimberly Road and directly across from the existing single-family homes in The Preserve at White Oak Creek shall be limited to a maximum height of three (3) stories.

Parking:

This development proposes a minimum of 1.3 spaces per 1- and 2-bedroom unit and a maximum of 1.8 spaces per 3-bedroom unit. The applicant has indicated that no more than 8% of the units will be three-bedroom units; however, a zoning condition to that effect has not been provided. As such, there is no assurance that this limit will be maintained.

Estimated # of Units	Per UDO Min Required	Per PUD Min Required
1 & 2 bedrooms: 276	1.5 per unit = 414	1.3 per unit = 359 (358.8 rounded up)
3 bedrooms: 24	1.8 per unit = 43 (43.2 rounded down)	1.8 per unit = 43 (43.2 rounded down)
Total: 300	457	402
PUD difference from UDO		-55
Max Permitted	(457*1.15) = 526 (525.55 rounded up)	(402*1.15) = 462 (462.3 rounded down)

Affordable Housing:

- A minimum of 10% of the total residential apartment units (as shown on the first site plan submittal) shall be designated as restricted low-income affordable housing rental units (the "Affordable Units") for a minimum A minimum of 10% of the total residential apartment units (as shown on the first site plan submittal) shall be designated as restricted low-income affordable housing rental units (the "Affordable Units") for a minimum affordability period of 15 years starting from the date of issuance of the first residential Certificate of Occupancy (the "Affordable Restriction Period").
- 1/2 of the Affordable Units shall be occupied by low-income households earning no more than 80% of the Raleigh, NC Metropolitan Statistical Area (MSA) Area Median Income, adjusted for family size, as



most recently published by the U.S. Department of Housing and Urban Development (HUD)(the "AMI") and rented at maximum rent limits per bedroom count, no greater than the 80% AMI limits as stipulated by the most recently published NC Housing Finance Agency Low-Income Housing Tax Credit Multifamily Tax Subsidy Program income and rent limits for the Wake County Metropolitan Area (the "MTSP Rent Limits").

- 1/2 of the Affordable Units shall be occupied by low-income households earning no more than 100% AMI and rented at maximum rent limits as stipulated by the 100% AMI MTSP Rent Limits.
- If the Affordable Units calculation results in a fraction between 0.00 and 0.49, the number of Affordable Units shall be rounded down to the nearest whole number. If the Affordable Units calculation results in a fraction between 0.50 and 0.99, the number of Affordable Units shall be rounded up to the nearest whole number.
- Prior to issuance of the first residential Certificate of Occupancy, a restrictive covenant between the Town and property owner shall be executed and recorded in the Wake County Registry to memorialize the affordable housing terms and conditions.
- During the Affordable Restriction Period, the property owner shall be responsible for performing, or contracting for, all property management and administration duties to ensure compliance with this affordable housing condition and shall submit annual compliance reports to the Town verifying compliance.
- Following expiration of the Affordable Restriction Period, this affordable housing condition shall expire, and the property owner shall be relived of all obligations set forth in this affordable housing condition, and the Affordable Units may be freely marketed and leased at market-rate rents.

Summary Table:					
% affordable Max # units Affordability % Term (years)					
10%	30	5% at 80% AMI	15		
		5% at 100% AMI			

Housing Staff Statement

Based on the 2023 Affordable Housing Incentive Zoning Policy, the Housing Program recommends at least five percent (5%) of the residential units or lots to be designated as affordable or workforce housing. The Policy recommendation applies to residential and mixed-use rezoning applications that propose 20 or more residential units. The proposed PUD designated 10% of the residential apartment units towards affordability with 1/2 of the affordable apartment units targeted to incomes that are 100% of the area median income and the remaining 1/2 of the affordable apartment units targeted to income that are 80% of the area median income.

Housing Staff has indicated that the 15 year affordability term is sufficient based upon the number of units offered and the AMI limits proposed.

Proposed RCA & Buffers:

The PUD will provide a minimum of 25% of the gross project area as Resource Conservation Area ("RCA"). Designated RCA areas will be consistent with the items listed in UDO Section 8.1.2(B). Preserved streams, wetlands, and associated riparian buffers provide the primary RCAs throughout the site. Additional RCA areas may include perimeter and street front buffers, stormwater management areas, and greenways.



Buffers:	UDO Requirement:	Proposed:
Wimberly Road (Thoroughfare):	30-foot Type B	20-foot Type B**
North boundary:	20-foot Type B	20-foot Type B
South boundary:		
Adjacent to vacant property:	20-foot Type B	30-foot Type B
Adjacent to Jenks Road:	30-foot Type B	15- foot Type B*
East boundary		
Adjacent to Use Class 1:	20-foot Type B	20-foot Type B
West boundary:	50-foot Type A	25-foot Type A

- There is an existing Duke Energy Electric Easement (Deed Book 5389, Page 112) (the "Jenks Duke Easement") along the property's Jenks Road frontage. The Jenks Road right of way dedication and road widening set forth in the Transportation Improvements section of this PUD may require relocation of the Jenks Duke Easement north onto the property as shown on the Preliminary Layout Plan (the "Relocation"). If the Relocation occurs, the portion of the buffer adjacent to the easement shall be reduced to a 15-foot Type B buffer and located outside of the relocated Jenks Duke Easement.
- ** This buffer may overlap with the existing Town of Apex Electric Easement (Deed Book 16203, Page 1465) and Duke Energy Electric Easement along Wimberly Road provided there is a 10-foot wide planting area as measured from the edge of the easement.

Public Facilities:

The Altera Heights PUD will be served by Town of Apex water, sanitary sewer, and electrical systems. The utility design will be finalized at Site Plan review. A conceptual Utility Plan is included in the PUD Plan for reference.

There is a 30-foot Duke Electric easement running north-south on the eastern portion of the property. Two (2) water connections have been identified on the PUD Layout Plan Sheet: from the east on White Oak Pond Road and from the east of Wimberly Road. Sewer connections are provided to the southwest of the site. The ultimate design for the utilities shall meet the current Town of Apex Master Water and Sewer Plans for approval.

Apex Transportation Plan/Access and Circulation:

Per the Apex Thoroughfare and Collector Street Plan map, Wimberly Road is designated as an existing 2-lane thoroughfare. The developer will dedicate right-of-way along their property frontage on Wimberly Road to meet the requirements shown in Advance Apex.

The Apex Bicycle and Pedestrian System Plan Map shows a future side path along the property's Wimberly Road and Jenks Road frontages, which the developer proposes to construct. The PUD will provide sidewalks along both sides of all internal streets.

The following conditions regarding transportation improvements (the "Road Improvements") apply and shall be phased consistent with the Traffic Impact Analysis that has been performed for this rezoning, which is on file with the Town of Apex. All proposed driveway access and improvements on state-maintained roadways are subject to both Apex and NCDOT review and approval. All proposed roadway infrastructure and right-of-way dedications will be consistent with the Town of Apex Comprehensive Transportation Plan.

1. <u>Wimberly Road Widening</u>. Developer shall widen Wimberly Road to accommodate turn lanes as required based on a minimum 35-foot back to back curb and gutter 2-lane section with a 10-foot Side



Path in a 60-foot right-of-way. Developer shall dedicate up to 5 feet of additional right of way along the property's frontage where needed to accommodate required turn lanes.

- 2. <u>Wimberly Road/White Oak Pond Road/North Site Driveway Intersection</u>. Developer shall construct a full-movement stop-controlled two-lane driveway across from White Oak Pond Road.
- 3. <u>Wimberly Road/Retreat at Preserve at White Oak Driveway/South Site Driveway Intersection</u>. Developer shall construct:
 - a. a full-movement stop-controlled two-lane driveway across from the planned Alderwood commercial site driveway approximately 550 feet north of Jenks Road;
 - b. a northbound left turn lane on Wimberly Road with a minimum 50 feet of storage and appropriate deceleration length and taper; and
 - c. a southbound left turn lane on Wimberly Road with a minimum 25 feet of storage and appropriate deceleration length and taper.
- 4. Jenks Road/Wimberly Road Intersection.
 - a. Developer shall dedicate right-of-way in the northwestern quadrant of the intersection sufficient for the future construction of a metal pole traffic signal with signal cabinet and associated equipment.
 - b. Prior to recordation of the Final Plat for the last phase of the development, Developer shall pay a fee in lieu for 50% of the estimated costs to design, acquire easements for, and construct a metal pole span wire traffic signal with pedestrian accommodations. Prior to Final Plat approval for the last phase of the development, Developer shall provide a preliminary signal geometric plan and engineer's estimate to the Town for review and approval.
- 5. Jenks Road Widening. Developer shall dedicate right of way and widen the northern half of Jenks Road for the length of the property's Jenks Road frontage based on a minimum 84-foot back to back curb and gutter 4-lane divided section with a 10-foot Side Path in a 110-foot right-of-way (the "Jenks Road Widening").
- 6. <u>**Right of Way/Easement Acquisition**</u>. The Road Improvements are intended to be located in existing Jenks Road and Wimberly Road rights of way and in additional right of way to be dedicated along the subject property's road frontage. If any Road Improvements require offsite rights of way, easements, or other property interests, the developer shall be responsible for acquiring all offsite easements and right of way necessary to construct committed transportation improvements. In the event that developer is unable to acquire the aforementioned easements and right of way through good faith efforts, Developer shall request assistance from the Town of Apex. In the event that the Town is unwilling or unable to assist with the acquisitions, Developer shall update engineering plans accordingly and pay a fee in lieu based on the fair market value of the offsite easements and right of way and estimated construction cost of the improvements, based on an engineer's estimate, subject to Town review and approval. Payment of the fee in lieu shall satisfy the requirement to construct the committed transportation improvements.

STAFF REPORT

Rezoning #24CZ11 Altera Heights PUD

May 27, 2025 Town Council Meeting



ENVIRONMENTAL ADVISORY BOARD:

The Apex Environmental Advisory Board (EAB) reviewed this rezoning on February 27, 2025. The zoning conditions suggested by the EAB are listed below along with the applicant's response to each condition.

EAB Suggested Conditions	Applicant's Response
The project shall use full cutoff LED fixtures that have a maximum color temperature of 3000K for all exterior lighting, including, but not limited to, parking lot and building mounted fixtures.	Yes
The project shall install signage adjacent to wooded or natural condition Resource Conservation Area. The signage shall indicate that the area is RCA and is to be preserved in perpetuity and not disturbed.	Yes
To reduce irrigation requirements, the project shall select and plant only warm season grasses.	No
No invasive species shall be permitted. No single species of tree or shrub shall constitute more than 20% of the plant material of its type within a single development site.	Yes
The project shall increase biodiversity within perimeter buffers, common owned open space, and other landscape areas by providing a variety of native and adaptive species for the canopy, understory and shrub levels. A minimum of 75 % of the species selected shall be native or a native of North Carolina.	No
The project shall ensure that 75% of the landscaping shall be native species. Landscaping shall be coordinated with and approved by the Planning Department at site or subdivision review.	Yes, reduced from 75% to 70%
No clearing or land disturbance shall be permitted within the riparian buffer, except the minimum necessary to install required sewer infrastructure and SCM outlets. The SCM water storage and treatment area shall not be permitted within the riparian buffer. The sewer shall be designed to minimize impacts to the riparian buffer.	No

The following environmental conditions have been proposed by the applicant:

- The project shall install at least one (1) sign per SCM discouraging the use of fertilizer and to reduce pet waste near SCM drainage areas. The sign shall be installed in locations that are publicly accessible, such as adjacent to, but outside of public property and/or public easement(s), amenity centers, sidewalks, greenways, or side paths.
- At least 70% of plants shall be native species. Landscaping will be coordinated with and approved by the Planning Director at site plan or subdivision review.
- The project shall install a sign adjacent to wooded or natural condition Resource Conservation Area that indicates the area is RCA and to be preserved in perpetuity and not disturbed.
- The project shall install at least two (2) pet waste stations in the project in locations that are publicly accessible, such as adjacent to amenity centers, SCMs, sidewalks, greenways, or side paths.
- No invasive species shall be permitted. No single species of tree or shrub shall constitute more than 20% of the plant material of its type within a single development site.
- The project shall use full cutoff LED fixtures that have a maximum color temperature of 3,000K for all exterior lighting, including, but not limited to, parking lot and building mounted fixtures.



PARKS, RECREATION, AND CULTURAL RESOURCES ADVISORY COMMISSION:

Altera Heights PUD #24CZ11 was reviewed at the February 25, 2025, PRCR Advisory Commission meeting. The Commission unanimously recommended a fee in lieu of dedication for a maximum of 300 Multi-Family units. The fee in lieu rate will be set at the time of Town Council action on the Rezoning and run for the life of the project. The total fee-in-lieu (based on the final unit count) will be calculated at Site Plan and Construction Document review and deposited prior to issuance of the first building permit for each building.

PLANNING STAFF RECOMMENDATION:

Planning staff recommends denial of Rezoning #24CZ11 Altera Heights PUD as proposed.

PLANNING BOARD RECOMMENDATION:

The Planning Board held a public hearing on May 12, 2025 and unanimously recommended denial of the rezoning.

ANALYSIS STATEMENT OF THE REASONABLENESS OF THE PROPOSED REZONING:

This Statement will address consistency with the Town's comprehensive and other applicable plans, reasonableness, and effect on public interest:

The proposed rezoning to Planned Unit Development-Conditional Zoning (PUD-CZ) is not consistent with the Town of Apex 2045 Land Use Map, which designates the subject properties as Office Employment/Commercial Services. The requested high density multi-family use does not conform to the intended land use designation, which is focused on supporting employment-generating uses and sustaining the Town's economic development objectives. Furthermore, the proposed density of 22.14 dwelling units per acre (dua) is much higher than that of the apartments to the south (13.15 dua) and the townhomes in the Alderwood PUD to the east (6.9 dua). The 2045 Land Use Map shows a trend toward lower residential densities as one moves north from the intersection of Wimberly Rd and Jenks Rd.

Although the applicant has proposed 10% income-restricted affordable housing units, this level of commitment does not constitute sufficient public benefit to warrant a change from the adopted land use designation. The Town's Affordable Housing Incentive Zoning Policy does not provide for land use changes of this nature without a substantially higher degree of affordability or other compelling public interest.

In addition, the applicant has declined to commit to constructing an off-site 10-foot side path connection requested by staff. This path would close a critical pedestrian infrastructure gap and is necessary to meet transportation and connectivity goals outlined in the Town's Transportation Plan. The lack of commitment to this improvement further limits the project's ability to align with adopted policies.

The proposed building elevations also do not fully comply with Section 9.3.4 of the Unified Development Ordinance, which requires clearly defined and visible customer entrances. Design revisions have not adequately addressed this requirement.

Based on these factors, the proposed rezoning is not consistent with adopted land use and transportation plans, does not provide sufficient public benefit to justify the requested land use change, and is therefore not reasonable nor in the public interest.

PLANNED UNIT DEVELOPMENT DISTRICT AND CONDITIONAL ZONING STANDARDS:

Standards

In return for greater flexibility in site design requirements, Planned Development (PD) Districts are expected to deliver exceptional quality community designs that preserve critical environmental resources; provide high quality community amenities; incorporate creative design in the layout of buildings, Resource Conservation Area and circulation; ensure compatibility with surrounding land uses and neighborhood character; provide high

STAFF REPORT Rezoning #24CZ11 Altera Heights PUD





quality architecture; and provide greater efficiency in the layout and provision of roads, utilities, and other infrastructure. The Planned Development (PD) Districts shall not be used as a means of circumventing the Town's adopted land development regulations for routine developments.

1. Planned Unit Development (PUD-CZ) District

In approving a Planned Development (PD) Zoning District designation for a PUD-CZ, the Town Council shall find the PUD-CZ district designation and PD Plan for PUD-CZ demonstrates compliance with the following standards:

- a) Development parameters
 - (i) The uses proposed to be developed in the PD Plan for PUD-CZ are those uses permitted in Sec. 4.2.2 *Use Table.*
 - (ii) The uses proposed in the PD Plan for PUD-CZ can be entirely residential, entirely non-residential, or a mix of residential and non-residential uses, provided a minimum percentage of non-residential land area is included in certain mixed use areas as specified on the 2045 Land Use Map. The location of uses proposed by the PUD-CZ must be shown in the PD Plan with a maximum density for each type of residential use and a maximum square footage for each type of non-residential use.
 - (iii) The dimensional standards in Sec. 5.1.3 Table of Intensity and Dimensional Standards, Planned Development Districts may be varied in the PD Plan for PUD-CZ. The PUD-CZ shall demonstrate compliance with all other dimensional standards of the UDO, North Carolina Building Code, and North Carolina Fire Code.
 - (iv) The development proposed in the PD Plan for PUD-CZ encourages cluster and compact development to the greatest extent possible that is interrelated and linked by pedestrian ways, bikeways and other transportation systems. At a minimum, the PD Plan must show sidewalk improvements as required by the Apex Transportation Plan and the *Town of Apex Standard Specifications and Standard Details*, and greenway improvements as required by the Town of Apex Parks, Recreation, Greenways, and Open Space Plan and the Apex Transportation Plan. In addition, sidewalks shall be provided on both sides of all streets for single-family detached homes.
 - (v) The design of development in the PD Plan for PUD-CZ results in land use patterns that promote and expand opportunities for walkability, connectivity, public transportation, and an efficient compact network of streets. Cul-de-sacs shall be avoided unless the design of the subdivision and the existing or proposed street system in the surrounding area indicate that a through street is not essential in the location of the proposed cul-de-sac, or where sensitive environmental areas such as streams, floodplains, and wetlands would be substantially disturbed by making road connections.
 - (vi) The development proposed in the PD Plan for PUD-CZ is compatible with the character of surrounding land uses and maintains and enhances the value of surrounding properties.
 - (vii) The development proposed in the PD Plan for PUD-CZ has architectural and design standards that are exceptional and provide higher quality than routine developments. All residential uses proposed in a PD Plan for PUD-CZ shall provide architectural elevations representative of the residential structures to be built to ensure the Standards of this Section are met.
- b) *Off-street parking and loading*. The PD Plan for PUD-CZ shall demonstrate compliance with the standards of Sec. 8.3 *Off-Street Parking and Loading*, except that variations from these standards may be permitted if a comprehensive parking and loading plan for the PUD-CZ is submitted as part of the PD Plan that is determined to be suitable for the PUD-CZ, and generally consistent with the



intent and purpose of the off-street parking and loading standards.

- c) RCA. The PD Plan for PUD-CZ shall demonstrate compliance with Sec. 8.1.2 Resource Conservation Area, except that the percentage of RCA required under Sec. 8.1.2 may be reduced by the Town Council by no more than 10% provided that the PD Plan for PUD-CZ includes one or more of the following:
 - (i) A non-residential component; (ii) An overall density of 7 residential units per acre or more; or (iii) Environmental measures including but not limited to the following:
 - a. The installation of a solar photovoltaic (PV) system on a certain number or percentage of single-family or townhouse lots or on a certain number or percentage of multifamily, mixed-use, or nonresidential buildings. All required solar installation shall be completed or under construction prior to 90% of the building permits being issued for the approved number of lots or buildings. For single-family or townhouse installations, the lots on which these homes are located shall be identified on the Master Subdivision Plat, which may be amended;
 - b. The installation of a geothermal system for a certain number or percentage of units within the development; or
 - c. Energy efficiency standards that exceed minimum Building Code requirements (i.e. SEER rating for HVAC).
- d) Landscaping. The PD Plan for PUD-CZ shall demonstrate compliance with the standards of Sec. 8.2 Landscaping, Buffering and Screening, except that variations from these standards may be permitted where it is demonstrated that the proposed landscaping sufficiently buffers uses from each other, ensures compatibility with land uses on surrounding properties, creates attractive streetscapes and parking areas and is consistent with the character of the area. In no case shall a buffer be less than one half of the width required by Sec. 8.2 or 10 feet in width, whichever is greater.
- e) Signs. Signage in the PD Plan for PUD-CZ shall demonstrate compliance with Sec. 8.7 Signs, except that the standards can be varied if a master signage plan is submitted for review and approval concurrent with the PD plan and is determined by the Town Council to be suitable for the PUD-CZ and generally consistent with the intent and purpose of the sign standards of the UDO. The master signage plan shall have design standards that are exceptional and provide for higher quality signs than those in routine developments and shall comply with Sec. 8.7.2 Prohibited Signs.
- f) *Public facilities.* The improvements standards and guarantees applicable to the public facilities that will serve the site shall comply with Article 7: *Subdivision and* Article 14: *Parks, Recreation, Greenways, and Open Space.*
 - (i) The PD Plan for PUD-CZ demonstrates a safe and adequate on-site transportation circulation system. The on-site transportation circulation system shall be integrated with the off-site transportation circulation system of the Town. The PD Plan for PUD-CZ shall be consistent with the Apex Transportation Plan and the *Town of Apex Standard Specifications and Standard Details* and show required right-of-way widths and road sections. A Traffic Impact Analysis (TIA) shall be required per Sec. 13.19.
 - (ii) The PD Plan for PUD-CZ demonstrates a safe and adequate on-site system of potable water and wastewater lines that can accommodate the proposed development, and are efficiently integrated into off-site potable water and wastewater public improvement plans. The PD Plan shall include a proposed water and wastewater plan.
 - (iii) Adequate off-site facilities for potable water supply, sewage disposal, solid waste disposal, electrical supply, fire protection and roads shall be planned and programmed for the development proposed in the PD Plan for PUD-CZ, and the development is conveniently



located in relation to schools and police protection services.

- (iv) The PD Plan shall demonstrate compliance with the parks and recreation requirements of Sec. Article 14: *Parks, Recreation, Greenways, and Open Space* and Sec. 7.3.1 *Privately-owned Play Lawns* if there is a residential component in the PUD-CZ.
- g) *Natural resource and environmental protection.* The PD Plan for PUD-CZ demonstrates compliance with the current regulatory standards of this Ordinance related to natural resource and environmental protection in Sec. 6.1 *Watershed Protection Overlay District,* Sec. 6.2 *Flood Damage Prevention Overlay District,* and Sec. 8.1 *Resource Conservation.*
- h) Storm water management. The PD Plan shall demonstrate that the post-development rate of onsite storm water discharge from the entire site shall not exceed pre-development levels in accordance with Sec. 6.1.7 of the UDO.
- i) *Phasing.* The PD Plan for PUD-CZ shall include a phasing plan for the development. If development of the PUD-CZ is proposed to occur in more than one phase, then guarantees shall be provided that project improvements and amenities that are necessary and desirable for residents of the project, or that are of benefit to the Town, are constructed with the first phase of the project, or, if this is not possible, then as early in the project as is technically feasible.
- j) *Consistency with 2045 Land Use Map.* The PD Plan for PUD-CZ demonstrates consistency with the goals and policies established in the Town's 2045 Land Use.
- k) *Complies with the UDO.* The PD Plan for PUD-CZ demonstrates compliance with all other relevant portions of the UDO.

Legislative Considerations

The Town Council shall find the Planned Unit Development-Conditional Zoning (PUD-CZ) designation demonstrates compliance with the following standards. 2.3.3(F):

The applicant shall propose site-specific standards and conditions that take into account the following considerations, which are considerations that are relevant to the legislative determination of whether or not the proposed conditional zoning district rezoning request is in the public interest. These considerations do not exclude the legislative consideration of any other factor that is relevant to the public interest.

- 1) Consistency with 2045 Land Use Map. The proposed Conditional Zoning (CZ) District use's appropriateness for its proposed location and consistency with the purposes, goals, objectives, and policies of the 2045 Land Use Map.
- 2) *Compatibility.* The proposed Conditional Zoning (CZ) District use's appropriateness for its proposed location and compatibility with the character of surrounding land uses.
- 3) *Zoning district supplemental standards.* The proposed Conditional Zoning (CZ) District use's compliance with Sec 4.4 *Supplemental Standards,* if applicable.
- 4) Design minimizes adverse impact. The design of the proposed Conditional Zoning (CZ) District use's minimization of adverse effects, including visual impact of the proposed use on adjacent lands; and avoidance of significant adverse impacts on surrounding lands regarding trash, traffic, service delivery, parking and loading, odors, noise, glare, and vibration and not create a nuisance.
- 5) *Design minimizes environmental impact.* The proposed Conditional Zoning District use's minimization of environmental impacts and protection from significant deterioration of water and air resources, wildlife habitat, scenic resources, and other natural resources.
- 6) *Impact on public facilities.* The proposed Conditional Zoning (CZ) District use's avoidance of having adverse impacts on public facilities and services, including roads, potable water and wastewater facilities, parks, schools, police, fire and EMS facilities.



- 7) *Health, safety, and welfare.* The proposed Conditional Zoning (CZ) District use's effect on the health, safety, or welfare of the residents of the Town or its ETJ.
- 8) *Detrimental to adjacent properties.* Whether the proposed Conditional Zoning (CZ) District use is substantially detrimental to adjacent properties.
- 9) Not constitute nuisance or hazard. Whether the proposed Conditional Zoning (CZ) District use constitutes a nuisance or hazard due to traffic impact or noise, or because of the number of persons who will be using the Conditional Zoning (CZ) District use.
- 10) Other relevant standards of this Ordinance. Whether the proposed Conditional Zoning (CZ) District use complies with all standards imposed on it by all other applicable provisions of this Ordinance for use, layout, and general development characteristics.



PLANNED	UNIT DEVELOPMENT APPLICATION				
This documer third parties.	nt is a public record under the North Carolina Public Reco	ords Act a	nd may be published o	on the Town's websit	e or disclosed to
Application		Su	ıbmittal Date:		
Fee Paid	\$	C	neck #		
PETITION 1	TO AMEND THE OFFICIAL ZONING DISTRICT M	IAP			
Project Nar	me: Altera Heights				
Address(es)): 8108 Jenks Road; 1508 \	Wimb	erly Road;	1440 Wim	berly Road
PIN(s)	722673959; 0722682430; 07	72268	31610		•
				Acreage: 1	3.55
Current Zor	ning: Rural Residential (RR)	Propose	ed Zoning: Planne	d Unit Development	Conditional (PUD-CZ)
Current 204	45 LUM Designation: Office Emplo	oyme	nt/Commer	cial Servic	es
Is the prope	osed rezoning consistent with the 2045 LUM Clas	ssificatio	n(s)? Yes 🗆	No	
If any porti	ion of the project is shown as mixed use (3 or mo	ore stripe	es on the 2045 Land	d Use Map) provid	le the following:
Ar	ea classified as mixed use:		Acreage:	N/A	
Ar	ea proposed as non-residential development:		Acreage:	N/A	
Pe	ercent of mixed use area proposed as non-resider	ntial:	Percent:	N/A	
Applicant I	nformation				
Name:	Wood Partners c/o Matthew	v Car	penter		
Address:	301 Fayetteville Street, Suit				
City:	Deleich			Zip:	27601
Phone:			/latthewCarp		
Owner Info	ormation				
Name:	See attached				
Address:					
City:	Sta	ate:		Zip:	
Phone:		mail:		F	
Agent Info					
	Matthew Carpenter				
Name:	301 Fayetteville Street, Suit		$\overline{)}$		
Address:	Dala'ak	•	NC		27601
City:			NatthewCarp	Zip: Zip:	
Phone:		_		•	•
Other contacts: Bob Zumwalt; BGE, Inc.; bzumwalt@bgeinc.com Ryan Fisher; BGE, Inc.; rfisher@bgeinc.com					
	Kevin Dean; Kimley-Ho		•		
		лп, К	evin.uean@	yKIIIIIEV-110	

PLANNED UNIT DEVELOPMENT APPLICATION

Application #: 24CZ11

Submittal Date:

PLANNED UNIT DEVELOPMENT DISTRICT STANDARDS:

In return for greater flexibility in site design requirements, Planned Development (PD) Districts are expected to deliver exceptional quality community designs that preserve critical environmental resources; provide high quality community amenities; incorporate creative design in the layout of buildings, Resource Conservation Area and circulation; ensure compatibility with surrounding land uses and neighborhood character; provide high quality architecture; and provide greater efficiency in the layout and provision of roads, utilities, and other infrastructure. The Planned Development (PD) Districts shall not be used as a means of circumventing the Town's adopted land development regulations for routine developments. The PD text and plan should demonstrate how the standards of Sec. 2.3.4.F are met be the proposed rezoning.

LEGISLATIVE CONSIDERATIONS - CONDITIONAL ZONING

The applicant shall propose site-specific standards and conditions that take into account the following considerations, which are considerations that are relevant to the legislative determination of whether or not the proposed conditional zoning district rezoning request is in the public interest. These considerations do not exclude the legislative consideration of any other factor that is relevant to the public interest. Use additional pages as needed.

1) *Consistency with 2045 Land Use Map.* The proposed Conditional Zoning (CZ) District use's appropriateness for its proposed location and consistency with the purposes, goals, objectives, and policies of the 2045 Land Use Map.

Although the proposed use is inconsistent with the office/commercial services LUM designation, it will provide attainable housing units, and AMI restricted affordable housing units, in furtherance of Goal 1.2(d) of the Affordable Housing Incentive Zoning Policy and Procedures Manual to create "mixed-income communities, with affordable housing units integrated within residential and mixed-use market rate developments." Additionally, as discussed in the PUD Text, the office market has not recovered since COVID-19, and the property is not suitable for commercial uses because of the lack of access and frontage on Jenks Road.

2) *Compatibility.* The proposed Conditional Zoning (CZ) District use's appropriateness for its proposed location and compatibility with the character of surrounding land uses.

The proposed development will add attainable housing in an area characterized by a variety of housing types and in close proximity to existing and planned commercial uses on US-64. There are no existing residential uses adjacent to the property. Adjacent to the west is the Cary-Apex water treatment plant and to the south an undeveloped tract owned by the Town of Apex and planned for utilities. Accordingly, the proposed density will not have a negative effect on adjacent properties.

3) Zoning district supplemental standards. The proposed Conditional Zoning (CZ) District use's compliance with Sec 4.4 *Supplemental Standards*, if applicable.

The proposed PUD will comply with any applicable standards in UDO Section 4.4.

PETITION PROCESS INFORMATION

4) Design minimizes adverse impact. The design of the proposed Conditional Zoning (CZ) District use's minimization of adverse effects, including visual impact of the proposed use on adjacent lands; and avoidance of significant adverse impacts on surrounding lands regarding trash, traffic, service delivery, parking and loading, odors, noise, glare, and vibration and not create a nuisance.

Adjacent to the west is the Cary-Apex water treatment plant and to the south an undeveloped tract owned by the Town of Apex and planned for utilities. Accordingly, the proposed density will not have a negative effect on adjacent properties. Buffers have been located along Jenks Road and Wimberly Road to help buffer the project from the street. Trash, parking and loading, and odors will be screened from adjacent uses as required by the UDO and as set forth in the PUD.

5) *Design minimizes environmental impact.* The proposed Conditional Zoning District use's minimization of environmental impacts and protection from significant deterioration of water and air resources, wildlife habitat, scenic resources, and other natural resources.

The property is not within a designated current or future 100 year floodplain but is located in the Primary Watershed Protection Overlay District. This PUD will comply with all built upon area, vegetated conveyances, structural SCMS and riparian stream buffer requirements of UDO Section 6.1.7. The PUD will include a minimum 25% RCA.

6) *Impact on public facilities.* The proposed Conditional Zoning (CZ) District use's avoidance of having adverse impacts on public facilities and services, including roads, potable water and wastewater facilities, parks, schools, police, fire and EMS facilities.

The proposed development will not have adverse impacts on public facilities and services. It will include road improvements as recommended by the TIA. At the time of this application, the property is districted to Salem Year-Round Elementary, Salem Year-Round Middle, and Green Level High School, none of which are capped. The project will pay the required parks and rec fee in lieu of dedication, subject to review and recommendation by the Parks and Rec Board.

7) *Health, safety, and welfare.* The proposed Conditional Zoning (CZ) District use's effect on the health, safety, or welfare of the residents of the Town or its ETJ.

The proposed use will not have adverse effects on the health, safety, or welfare of residents of the Town or its ETJ. Rather, the project will offer attainable housing and AMI restricted affordable units in a location convenient to goods and services.

8) *Detrimental to adjacent properties.* Whether the proposed Conditional Zoning (CZ) District use is substantially detrimental to adjacent properties.

Adjacent to the west is the Cary-Apex water treatment plant and to the south an undeveloped tract owned by the Town of Apex and planned for utilities. Accordingly, the proposed density will not have a negative effect on adjacent properties. Buffers have been located along Jenks Road and Wimberly Road to help buffer the project from the street. Trash, parking and loading, and odors will be screened from adjacent uses as required by the UDO and as set forth in the PUD.

PETITION PROCESS INFORMATION

9) Not constitute nuisance or hazard. Whether the proposed Conditional Zoning (CZ) District use constitutes a nuisance or hazard due to traffic impact or noise, or because of the number of persons who will be using the Conditional Zoning (CZ) District use.

Traffic impacts will be mitigated by transportation infrastructure improvements recommended by the TIA. Additionally, the project will include perimeter buffer as shown on the Concept Plan.

10) Other relevant standards of this Ordinance. Whether the proposed Conditional Zoning (CZ) District use complies with all standards imposed on it by all other applicable provisions of this Ordinance for use, layout, and general development characteristics.

The PUD will be governed by the regulations contained in the attached PUD Text and Concept Plan. The PUD will comply with all other regulations of the UDO to the extent they do not conflict with the PUD regulations.

DEVELOPMENT NAME APPROVAL APPLICATION

Application #: 24CZ11

Submittal Date:

Fee for Initial Submittal: No Charge

Fee for Name Change after Approval: \$500*

Purpose

To provide a consistent and clearly stated procedure for the naming of subdivisions and/or developments and entrance roadways (in conjunction with *Town of Apex Address Policy*) so as to allow developers to define and associate the theme or aesthetics of their project(s) while maintaining the Town's commitment to preserving the quality of life and safety for all residents of Apex proper and extraterritorial jurisdiction.

Guidelines

- The subdivision/development name shall not duplicate, resemble, or present confusion with an existing subdivision/development within Apex corporate limits or extraterritorial jurisdiction except for the extension of an existing subdivision/development of similar or same name that shares a continuous roadway.
- ✓ The subdivision/development name shall not resemble an existing street name within Apex corporate limits or extraterritorial jurisdiction unless the roadway is a part of the subdivision/development or provides access to the main entrance.
- ✓ The entrance roadway of a proposed subdivision/development shall contain the name of the subdivision/development where this name does not conflict with the Town of Apex Road Name Approval Application and Town of Apex Address Policy guidelines.
- ✓ The name "Apex" shall be excluded from any new subdivision/development name.
- ✓ Descriptive words that are commonly used by existing developments will be scrutinized more seriously in order to limit confusion and encourage distinctiveness. A list of commonly used descriptive words in Apex's jurisdiction is found below.
- ✓ The proposed subdivision/development name must be requested, reviewed and approved during preliminary review by the Town.
- ✓ A \$500.00 fee will be assessed to the developer if a subdivision/development name change is requested after official submittal of the project to the Town.*

*The imposed fee offsets the cost of administrative changes required to alleviate any confusion for the applicant, Planning staff, other Town departments, decision-making bodies, concerned utility companies and other interested parties. There is no charge for the initial name submittal.

Existing Development Titles, Recurring

	Residential	Non-Residential
10 or more	Creek, Farm(s), Village(s),	Center/Centre
6 to 9	Crossing(s), Park, Ridge, Wood(s)	Commons, Park
3 to 5	Acres, Estates, Glen(s), Green [•] , Hills	Crossing(s), Plaza, Station, Village(s)

•excludes names with Green Level

DEVELOPMENT	NAME APPROVAL	APPLICATION

24CZ11 Application #:

Submittal Date:

Proposed Subdivision/Development Information

Description of location: Northwest corner of the intersection of Jenks Road and Wimberly Road

Nearest intersecting roads: Jenks Rd/Wimberly Rd

Wake County PIN(s): 0722673959; 0722682430; 0722681610

Township: White Oak

Contact Information (as appropriate)

Contact person: Matthew Carpenter

Phone number:	919-835-4032	Fax number: N/A
Address: 301 Fa	ayetteville Street, Suite 1400, Ra	aleigh, NC 27601
E-mail address:	matthewcarpenter@parkerpoe.	.com
s See at	tached	

Owner: See attached

Phone number: _____ Fax number: _____

Address:

E-mail address:

Proposed Subdivision/Development Name

1st Choice: Altera Heights

2nd Choice (*Optional*):

Town of Apex Staff Approval:

Town of Apex Planning Department Staff

Date

Application #: 24CZ11

Submittal Date:

Town of Apex 73 Hunter Street P.O. Box 250 Apex, NC 27502 919-249-3400

WAKE COUNTY, NORTH CAROLINA CUSTOMER SELECTION AGREEMENT

0722673959; 0722682430; 0722681610

(the "Premises")

The Town of Apex offers to provide you with electric utilities on the terms described in this Offer & Agreement. If you accept the Town's offer, please fill in the blanks on this form and sign and we will have an Agreement once signed by the Town.

WP East Acquisitions, LLC

Town of Apex (the "Town") as the permanent electric supplier for the Premises. Permanent service to the Premises will be preceded by temporary service if needed.

The sale, delivery, and use of electric power by Customer at the Premises shall be subject to, and in accordance with, all the terms and conditions of the Town's service regulations, policies, procedures and the Code of Ordinances of the Town.

Customer understands that the Town, based upon this Agreement, will take action and expend funds to provide the requested service. By signing this Agreement the undersigned signifies that he or she has the authority to select the electric service provider, for both permanent and temporary power, for the Premises identified above.

Any additional terms and conditions to this Agreement are attached as Appendix 1. If no appendix is attached this Agreement constitutes the entire agreement of the parties.

Acceptance of this Agreement by the Town constitutes a binding contract to purchase and sell electric power.

Please note that under North Carolina General Statute §160A-332, you may be entitled to choose another electric supplier for the Premises.

Upon acceptance of this Agreement, the Town of Apex Electric Utilities Division will be pleased to provide electric service to the Premises and looks forward to working with you and the owner(s).

ACCEPTED:

CUSTOMER:	WP East Acquisitions, LLC	TOWN C	F APEX
BY:		BY:	
	Authorized Agent		Authorized Agent
DATE:		DATE:	

AGENT AUTHORIZAT	
Application #: 2 <u>4</u>	CZ11 Submittal Date:
Terry D. Poole	is the owner* of the property for which the attached
application is being su	ıbmitted:
i	or Conditional Zoning and Planned Development rezoning applications, this authorization includes express consent to zoning conditions that are agreed to by the Agent which will apply if the application is approved.
Site Plan	
□ Variance	
□ Other:	
The property address	is:1440 Wimberly Road; PIN 0722681610
The agent for this pro	ject is: Matthew Carpenter and Caitlin Shelby
🗆 I am the	owner of the property and will be acting as my own agent
Agent Name:	Matthew Carpenter and Caitlin Shelby
Address:	301 Fayetteville Street, Suite 1400, Raleigh, NC 27601
Telephone Number:	919-835-4032
E-Mail Address:	MatthewCarpenter@parkerpoe.com
	Signature(s)* Tury foolu 917F90D07ADC4DF Terry D. Poole
	Type or print name Date
	Type or print name Date

Attach additional sheets if there are additional owners.

*Owner of record as shown on the latest equalized assessment rolls of Wake County. An option to purchase does not constitute ownership. If ownership has been recently transferred, a copy of the deed must accompany this authorization.

Pursuant to Article 40 of Chapter 66 of the North Carolina General Statutes (the Uniform Electronic Transactions Act) this application and all documents related hereto containing an electronic or digitized signature are legally binding in the same manner as are hard copy documents executed by hand signature. The parties hereby consent to use electronic or digitized signatures in accordance with the Town's Electronic Signature Policy and intend to be bound by the application and any related documents. If electronic signatures are used the application shall be delivered in an electronic record capable of retention by the recipient at the time of receipt.

AGENT	AUTHORIZATI	ON FORM					
Applicat	:ion #: 2 <u>4C</u>	211	Submit	ttal Date:			
Danny L. Ottaway and Joan M. Ottaway			is the owner* of the property for which the attached				
applicatio	on is being sub	bmitted:					
Rezoning: For Conditional Zoning and Planned Development rezoning applications, this authorization includes express consent to zoning conditions that are agreed to by the Agent which will apply if the application is approved.							
	Site Plan						
	Subdivision						
	Variance						
	Other:						
The prop	erty address is	s: 1508 Wimberly Road;	PIN 072268243	0			
The agen	t for this proje	ect is: Matthew Carpenter and	d Caitlin Shelby				
	□ I am the o	wner of the property and will	be acting as my	own agent			
Agent Na	ime:	Matthew Carpenter and Caitl	in Shelby				
Address:		301 Fayetteville Street, Suite	1400, Raleigh,	NC 27601			
Telephor	ne Number:	919-835-4032					
E-Mail Ad	ddress:	MatthewCarpenter@parkerpo	pe.com				
		Signature(s) of Owner(s)*					
			(DocuSigned by:	5 (20 (2024		
		Danny L. Ottaway		Varry Ottaway	5/30/2024		
			Тур	be or print name	Date		
				DocuSigned by:			
		Joan M. Ottaway		Joan Ottaway	5/30/2024		
			Тур	be or print name	Date		

Attach additional sheets if there are additional owners.

*Owner of record as shown on the latest equalized assessment rolls of Wake County. An option to purchase does not constitute ownership. If ownership has been recently transferred, a copy of the deed must accompany this authorization.

Pursuant to Article 40 of Chapter 66 of the North Carolina General Statutes (the Uniform Electronic Transactions Act) this application and all documents related hereto containing an electronic or digitized signature are legally binding in the same manner as are hard copy documents executed by hand signature. The parties hereby consent to use electronic or digitized signatures in accordance with the Town's Electronic Signature Policy and intend to be bound by the application and any related documents. If electronic signatures are used the application shall be delivered in an electronic record capable of retention by the recipient at the time of receipt.

AGENT AUTHORIZ					
Application #:	24CZ11 Submittal Date:				
Terry Cichocki	is the owner* of the property for which the attached				
application is being	submitted:				
Rezoning: For Conditional Zoning and Planned Development rezoning applications, this authorization includes express consent to zoning conditions that are agreed to b Agent which will apply if the application is approved.					
□ Site Plan					
Subdivisi	on				
□ Variance					
□ Other:					
The property addre	ss is:8108 Jenks Road; PIN 0722673959				
The agent for this p	roject is: Matthew Carpenter and Caitlin Shelby				
🗆 I am t	e owner of the property and will be acting as my own agent				
Agent Name:	Matthew Carpenter and Caitlin Shelby				
Address:	301 Fayetteville Street, Suite 1400, Raleigh, NC 27601				
Telephone Numbe	919-835-4032				
E-Mail Address:	MatthewCarpenter@parkerpoe.com				
	Signaturagi(s) tof Owner(s)* Jerry Cichocki				
Terry Cichocki					
	Type or print name Date				
	Type or print name Date				

Attach additional sheets if there are additional owners.

*Owner of record as shown on the latest equalized assessment rolls of Wake County. An option to purchase does not constitute ownership. If ownership has been recently transferred, a copy of the deed must accompany this authorization.

Pursuant to Article 40 of Chapter 66 of the North Carolina General Statutes (the Uniform Electronic Transactions Act) this application and all documents related hereto containing an electronic or digitized signature are legally binding in the same manner as are hard copy documents executed by hand signature. The parties hereby consent to use electronic or digitized signatures in accordance with the Town's Electronic Signature Policy and intend to be bound by the application and any related documents. If electronic signatures are used the application shall be delivered in an electronic record capable of retention by the recipient at the time of receipt.

AFFIDAVIT OF OWNERSHIP

Application #: 24CZ11

Submittal Date:

The undersigned, <u>Matthew J. Carpenter</u> (the "Affiant") first being duly sworn, hereby swears or affirms as follows:

- 1. Affiant is over eighteen (18) years of age and authorized to make this Affidavit. The Affiant is the sole owner, or is the authorized agent of all owners, of the property located at <u>B(0)</u> and legally described in **Exhibit** "A" attached hereto and incorporated herein (the "Property").
- 2. This Affidavit of Ownership is made for the purpose of filing an application for development approval with the Town of Apex.
- 3. If Affiant is the owner of the Property, Affiant acquired ownership by deed, dated ______, and recorded in the Wake County Register of Deeds Office on ______, in Book ______, in Book ______,
- 4. If Affiant is the authorized agent of the owner(s) of the Property, Affiant possesses documentation indicating the agency relationship granting the Affiant the authority to apply for development approval on behalf of the owner(s).

This the 23 day of _____ (seal) vpe or print name

STATE OF NORTH CAROLINA

I, the undersigned, a Notary Public in and for the County of <u>Make</u>, hereby certify that <u>Mathews</u>. Carpeter, Affiant, <u>personally known to me</u> or known to me by said Affiant's presentation of said Affiant's ______, personally appeared before me this day and acknowledged the

due and voluntary execution of the foregoing Affidavit.



 \mathcal{U}

Notary Public State of North Carolina My Commission Expires: DChber 2, 2028

Last Updated: August 30, 2019

Wood Partners

<u>Exhibit A</u> To Affidavit of Ownership Altera Rezoning

PIN 0722673959

Address: 8108 Jenks Road Acreage: 9.66 acres Owner: Terry Cichocki Deed Book/Page: 16193/229 Owner Address: 8108 Jenks Road, Apex, NC 27523

PIN 0722682430

Address: 1508 Wimberly Road Acreage: 2.07 acres Owner: Danny Ottaway and Joan Ottaway Deed Book/Page: 13368/821 Owner Address: 10401 Chapel Hill Road, Morrisville, NC 27560

PIN 0722681610

Address: 1440 Wimberly Road Acreage: 1.83 acres Owner: Terry Poole Deed Book/Page: 12394/1101 Owner Address: 1440 Wimberly Road, Apex, NC 27523



Wake County Residential Development Notification

Developer Company Information					
Company Name	Wood Partners				
Company Phone Number	c/o Matthew Carpenter; 919-835-4032				
Developer Representative Name	Matthew Carpenter				
Developer Representative Phone Number	919-835-4032				
Developer Representative Email	MatthewCarpenter@parkerpoe.com				

New Residential Subdivision Information						
Date of Application for Subdivision	Tentative January 1, 2025					
City, Town or Wake County Jurisdiction	Town of Apex					
Name of Subdivision	Altera Heights					
Address of Subdivision (if unknown enter nearest cross streets)	8108 Jenks Road					
REID(s)						
PIN(s)	0722673959; 0722682430; 0722681610					

Please complete each section of this form and submit with your application.

Town of Apex staff will enter this information into the online WCPSS form.

Please send any questions about this form to:

studentassignment-gisgroup@wcpss.net

Projected Dates Information					
Subdivision Completion Date	2027				
Subdivision Projected First Occupancy Date	2027				

	Lot by Lot Development Information																
Unit Type	Total # of Units	Senior Living	Studio	1 Bedroom	2 Bedroom	3 Bedroom	4 Bedroom	-	e Foot nge	Price	Range	ŀ	Anticipate	ed Comp	letion Uni	ts & Dat	es
								Min	Max	Low	High	Year	# Units	Year	# Units	Year	# Units
Single Family																	
Townhomes																	
Condos																	
Apartments				150	125	25		700	1600	unknow	unknown	2027					
Other																	



To:Neighboring Property Owners and TenantsFrom:Matthew J. CarpenterDate:May 8, 2024

Re: Notice of Virtual Neighborhood Meeting

You are invited to attend a virtual neighborhood meeting on May 22, 2024 at 6:00 PM to discuss an upcoming application to rezone three parcels of land located 8108 Jenks Road (PIN 07226739), 1440 Wimberly Road (PIN 0722681610), and 1508 Wimberly Road (PIN 0722682430) (collectively, the "Property"). The Property is currently zoned Rural Residential (RR) and is proposed to be rezoned to Planned Unit Development-Conditional Zoning (PUD-CZ) or a similar district that permits multi-family housing.

During the meeting, the applicant will describe the nature of the rezoning request and field any questions from the public. Enclosed are: (1) a vicinity map outlining the location of the parcels; (2) a zoning map of the subject area; (3) a preliminary concept plan; (4) a project contact information sheet; and (5) a common construction issues & who to call information sheet.

The meeting will be held virtually. You can participate online via Zoom or by telephone. To participate in the Zoom online meeting:

Visit: Enter the following meeting ID: Enter the following password: https://zoom.us./join 865 0577 7501 987048

To participate by telephone:

Dial:	1 929 205 6099
Enter the following meeting ID:	865 0577 7501
Enter the Participant ID:	#
Enter the Meeting password:	987048

If you have any questions about this rezoning, please contact me at (919) 835-4032 or via email at <u>matthewcarpenter@parkerpoe.com</u>.

Sincerely thew Carpente

NOTICE OF NEIGHBORHOOD MEETING

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

May 8, 2024

Date

Dear Neighbor:

You are invited to a neighborhood meeting to review and discuss the development proposal at See attached Exhibit A See attached Exhibit A

Address(es)

PIN(s)

in accordance with the Town of Apex Neighborhood Meeting procedures. This meeting is intended to be a way for the applicant to discuss the project and review the proposed plans with adjacent neighbors and neighborhood organizations before the submittal of an application to the Town. This provides neighbors an opportunity to raise questions and discuss any concerns about the impacts of the project before it is officially submitted. If you are unable to attend, please refer to the Project Contact Information page for ways to contact the applicant. Notified neighbors may request that the applicant provide updates and send plans via email or mail. Once an application has been submitted to the Town, it may be tracked using the <u>Interactive Development Map</u> or the <u>Apex Development Report</u> located on the Town of Apex website at <u>http://www.apexnc.org/180</u>. Applications for Rezoning must hold a second Neighborhood Meeting in the month prior to the anticipated public hearing date.

A Neighborhood Meeting is required because this project includes (check all that apply):

Арр	lication Type	Approving Authority
	Rezoning (including Planned Unit Development)	Town Council
	Major Site Plan	Technical Review Committee (staff)
	Minor Site Plan for the uses "Day care facility", "Government service", "School, public or private", "Restaurant, drive-through", or "Convenience store with gas sales"	Technical Review Committee (staff)
	Special Use Permit	Board of Adjustment (QJPH*)
	Residential Master Subdivision Plan (excludes exempt subdivisions)	Technical Review Committee (staff)

*Quasi-Judicial Public Hearing: The Board of Adjustment cannot discuss the project prior to the public hearing.

The following is a description of the proposal (also see attached map(s) and/or plan sheet(s)): The applicant is proposing to rezone the property to Planned Unit Development-Conditional Zoning (PUD-CZ)

to facilitate a multi-family development.

 Estimated submittal date:
 June 3, 2024

 MEETING INFORMATION:
 Property Owner(s) name(s):

 Property Owner(s) name(s):
 See attached

 Applicant(s):
 Wood Partners c/o Matthew Carpenter

 Contact information (email/phone):
 matthewcarpenter@parkerpoe.com; (919) 835-4032

 Meeting Address:
 Virtual (Zoom) - See attached notice letter

 Date/Time of meeting**:
 May 22, 2024

 Welcome:
 6:00 PM

 Project Presentation:
 between 6:00 PM - 7:00PM

 Question & Answer:
 between 6:00 PM - 7:00PM

**Meetings shall occur between 5:00 p.m.-9:00 p.m. on a Monday through Thursday (excluding Town recognized holidays). If you have questions about the general process for this application, please contact the Planning Department at 919-249-3426. You may also find information about the Apex Planning Department and on-going planning efforts at http://www.apexnc.org/180.

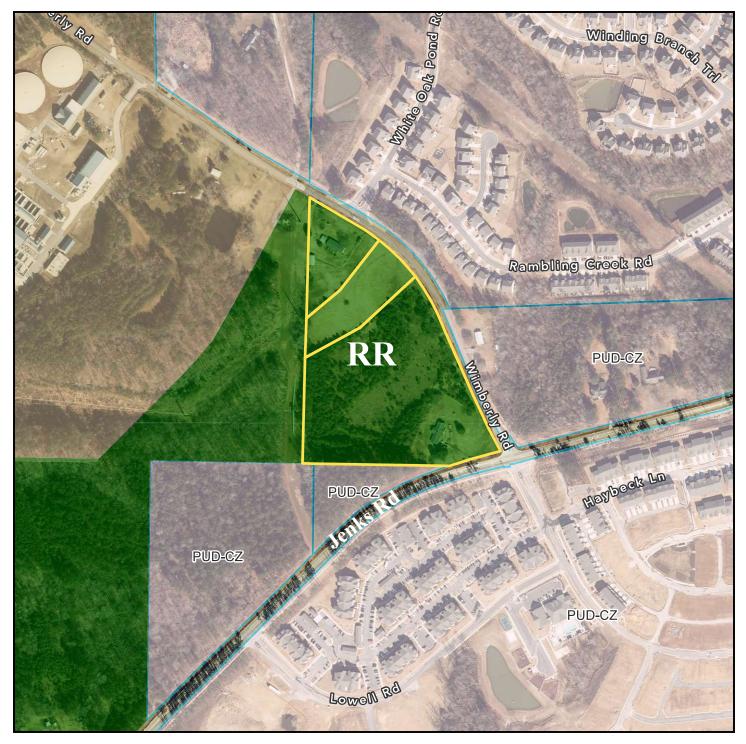


8108 Jenks Road; & 1440/1508 Wimberly Road

Ν 800 50 400 0 1 inch equals 400 feet

Vicinity Map

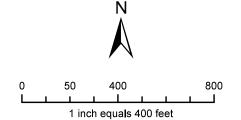
<u>Disclaimer</u> iMaps makes every effort to produce and publish the most current and accurate information possible. However, the maps are produced for information purposes, and are NOT surveys. No warranties, expressed or implied ,are provided for the data therein, its use,or its interpretation.



8108 Jenks Road; & 1440/1508 Wimberly Road

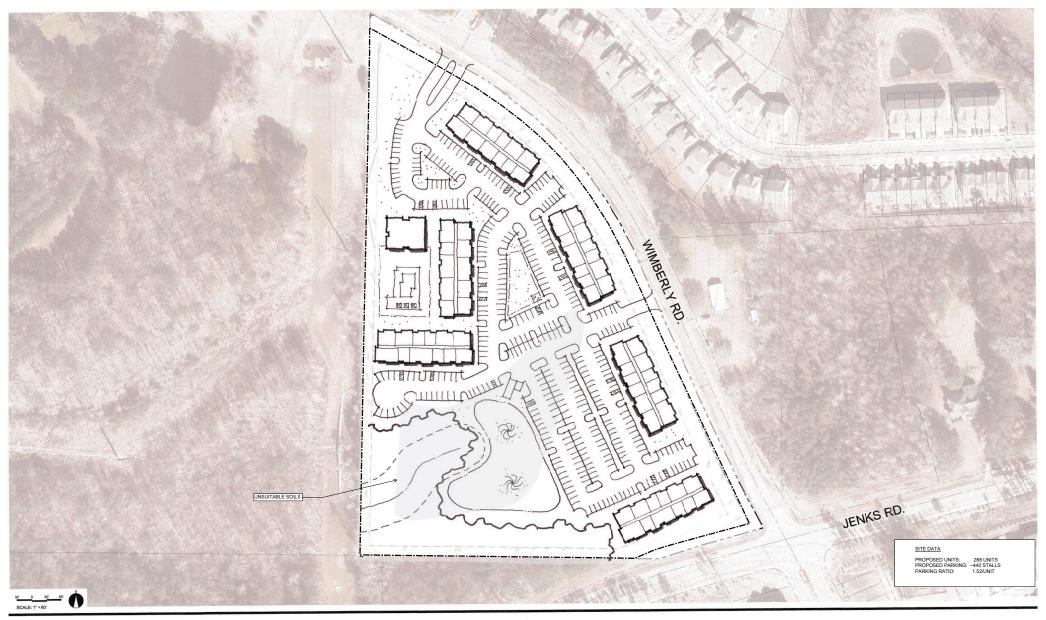
Zoning Map

Current Zoning: RR



Disclaimer

iMaps makes every effort to produce and publish the most current and accurate information possible. However, the maps are produced for information purposes, and are **NOT** surveys. No warranties, expressed or implied , are provided for the data therein, its use, or its interpretation.









PROJECT CONTACT INFORMATION

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Development Contacts:	
Project Name: Altera Jenks Road Zoning: Rural Residential (RR)	
Location: See attached Exhibit A	
Property PIN(s): <u>See attached Exhibit A</u> Acreage/Square Feet: 13.56 acres	
Property Owner: See attached Exhibit A	
Address:	
City: State: Zip:	
Phone: Email:	
Developer: Wood Partners c/o Matthew Carpenter	
Address: 301 Fayetteville Street, Suite1400	
City: Raleigh State: NC Zip: 27601	
Phone: (919) 835-4032 Fax: n/a Email: matthewcarpenter@parkerpoe.co	om
Engineer: BGE, Inc. c/o Bob Zumwalt	
Address: 5438 Wade Park Blvd, Suite 420	
City: Raleigh State: NC Zip: 27607	
Phone: (919) 475-7314 Fax: n/a Email: bzumwalt@bgeinc.com	
Builder (if known): Wood Partners c/o Matthew Carpenter	
Address: 301 Fayetteville Street, Suite1400	
City: Raleigh State: NC Zip: 27601	
Phone: (919) 835-4032 Fax: n/a Email: matthewcarpenter@parkerpoe.cd	om

Please note that Town staff will not have complete information about a proposed development until the application is submitted for review. If you have a question about Town development standards and how they relate to the proposed development, please contact the appropriate staff person listed below.

Town of Apex Department Contacts	
Planning Department Main Number	(010) 240 2426
(Provide development name or location to be routed to correct planner)	(919) 249-3426
Parks, Recreation & Cultural Resources Department Angela Reincke, Parks Planning Project Manager	(919) 372-7468
Public Works - Transportation Russell Dalton, Traffic Engineering Manager	(919) 249-3358
Water Resources Department Jessica Bolin, Environmental Engineering Manager (Stormwater, Sedimentation & Erosion Control)	(919) 249-3537
Matt Echols, Utility Engineering Manager (Water & Sewer)	(919) 372-7505
Electric Utilities Division	
Rodney Smith, Electric Technical Services Manager	(919) 249-3342

<u>Exhibit A</u> Ownership Addendum Altera Jenks Road Rezoning

PIN 0722673959

Address: 8108 Jenks Road Acreage: 9.66 acres Owner: Terry Cichocki Deed Book/Page: 16193/229 Owner Address: 8108 Jenks Road, Apex, NC 27523

PIN 0722682430

Address: 1508 Wimberly Road Acreage: 2.07 acres Owner: Danny Ottaway and Joan Ottaway Deed Book/Page: 13368/821 Owner Address: 10401 Chapel Hill Road, Morrisville, NC 27560

PIN 0722681610

Address: 1440 Wimberly Road Acreage: 1.83 acres Owner: Terry Poole Deed Book/Page: 12394/1101 Owner Address: 1440 Wimberly Road, Apex, NC 27523

COMMON CONSTRUCTION ISSUES & WHO TO CALL

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Noise & Hours of Construction:	Non-Emergency Police	919-362-8661
Noise from tree removal, grading,	excavating, paving, and building	g structures is a routine part of the
construction process. The Town gene	erally limits construction hours fro	om 7:00 a.m. to 8:30 p.m. so that there
	-	onstruction outside of these hours is
	•	ense to have the construction occur at
· ·		s of blasting rock to Monday through
		ours and other noise complaints to the
Non-Emergency Police phone number	•	
Construction Traffic:	James Misciagno	919-372-7470
	J J J J J J J J J J J J J J J J J J J	t process, including but not limited to
		te, construction materials such as brick
	_	
		in to pave, etc. The Town requires a
-		from leaving the site as possible. If dirt
does get into the road, the Town can	· · · · · · · · · · · · · · · · · · ·	
Road Damage & Traffic Control:	Water Resources – Infrastru	
		and traffic control. Potholes, rutting,
		/paths are all common issues that should
	astructure Inspections at 919-249-3	3427. The Town will get NCDOT involved
if needed.		
Parking Violations:	Non-Emergency Police	919-362-8661
	-	king in neighbors' driveways or on their
		lations prohibit parking within 15 feet of
· •		nplaints should be reported to the Non-
Emergency Police phone number at 91		
Dirt in the Road:	James Misciagno	919-372-7470
		s and/or vehicle traffic. These incidents
should be reported to James Misciagno		
Dirt on Properties or in Streams:	James Misciagno	919-372-7470
	Danny Smith	Danny.Smith@ncdenr.gov
		streams and stream buffers; it is typically
		to James Misciagno at 919-372-7470 so
		pacts to the streams and stream buffers
should also be reported to Danny Smit		
Dust:	James Misciagno	919-372-7470
		ing neighborhoods or roadways. These
-	-	hat he can coordinate the use of water
trucks onsite with the grading contract		
Trash:	James Misciagno	919-372-7470
		ven off of the site. These incidents should
	.9-372-7470. He will coordinate th	e cleanup and trash collection with the
developer/home builder.		
Temporary Sediment Basins:	James Misciagno	919-372-7470
		to the final stormwater pond) are often
		919-372-7470 so that he can coordinate
the cleaning and/or mowing of the slop		
Stormwater Control Measures:	Jessica Bolin	919-249-3537
		(trustally, a standard man all such as
Post-construction concerns related to		
conversion and long-term maintenance	e should be reported to Jessica Boli	in at 919-249-3537.
conversion and long-term maintenance Electric Utility Installation:	e should be reported to Jessica Boli Rodney Smith	in at 919-249-3537. 919-249-3342
conversion and long-term maintenance Electric Utility Installation:	e should be reported to Jessica Boli Rodney Smith	in at 919-249-3537.

NEIGHBORHOOD MEETING SIGN-IN SHEET

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Meeting Address:	/irtual (Zoom) - See attached notice letter		
Date of meeting: Ma	ay 22, 2024	Time of meeting:	6:00
Property Owner(s) na	ame(s): See attached		
Applicant(s): Wood	Partners c/o Matthew Carpenter		

Please <u>print</u> your name below, state your address and/or affiliation with a neighborhood group, and provide your phone number and email address. Providing your name below does not represent support or opposition to the project; it is for documentation purposes only. For virtual meetings, applicants must include all known participants and request the information below.

	NAME/ORGANIZATION	ADDRESS	PHONE #	EMAIL	SEND PLANS & UPDATES
1.	R. Mills; Woodward Management	12 Piedmont Center, Suite 100, Atlanta, GA	404-467-6300	n	\checkmark
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					

Use additional sheets, if necessary.

SUMMARY OF DISCUSSION FROM THE NEIGHBORHOOD MEETING

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Property Owner(s) name(s):	See attached			
Applicant(s): Wood Partners c/o Matthew Carpenter				
Contact information (email/	ohone):			
Meeting Address: Virtual (Zo	pom) - See attached notice letter			
Date of meeting: May 22, 20	24 Time of meeting: 6:00			

Please summarize the questions/comments and your responses from the Neighborhood Meeting or emails/phone calls received in the spaces below (attach additional sheets, if necessary). Please state if/how the project has been modified in response to any concerns. The response should not be "Noted" or "No Response". There has to be documentation of what consideration the neighbor's concern was given and justification for why no change was deemed warranted.

Question/Concern #1: See attached

Applicant's Response:

Question/Concern #2:

Applicant's Response:

Question/Concern #3:

Applicant's Response:

Question/Concern #4:

Applicant's Response:

Altera Heights PUD Summary of Neighborhood Meeting

- I. WELCOME
 - a. Introduction of development team
 - b. Explanation of process. This is a pre-filing neighborhood meeting for a potential rezoning case. The purpose of this meeting is to hear your feedback and consider it as we put together our rezoning application. So, I'll start by providing an overview of the request and then we'll be happy to answer any questions.

II. PRESENTATION

- a. <u>Site Overview</u> location, existing uses adjacent, and surrounding development in progress.
 - i. 13.55 acres at the corner of Jenks and Wimberly Roads.
 - ii. Cary-Apex water plant adjacent to the west.
 - iii. Town owned property adjacent to the south. Town plans to use this property for utilities.
 - iv. Mix of housing types in the area including apartments, townhomes, and single-family homes
- b. Land Use Map Designation
 - i. LUM designation is office/commercial services.
 - ii. Office market is in poor shape, so unlikely for office to be developed here.
 - iii. Other developers have looked at doing commercial here but commercial uses are hindered by the lack of frontage and access on Jenks Road.
- c. <u>Sketch Plan</u>
 - i. Purpose of the rezoning is to permit an attainable housing project with middle market rents aimed at police officers, teachers, nurses, etc.
 - ii. Around 300 apartment units across several 4-story buildings.
- d. <u>Rezoning Process and Timeline</u>
 - i. Working on our application and plan to submit in June. After that, we will have several months of staff review. During that time, staff will provide comments on our application and we'll make changes to address staff comments. Once comments have been addressed, the project will go to Planning Board. Planning Board will hold a public hearing and make a recommendation to Council. After that, Town Council will hold a public hearing and make the final decision on the rezoning.

III. QUESTION AND ANSWER

a. No questions were asked

Notification List for 1st Neighborhood Meeting(10915554.1).xls

OWNER	
AKOZER, PERI ELA AKOZER, EREN	
ALBERT, DAVID MILTON-ALBERT, VASANTHI	
ARORA, VISHIT THAREJA, MEDHA	
CARY TOWN OF APEX TOWN OF	
CHEN, TSUNG PING TSAI, CHIEH JU	
CHIGURUPATI, POOJA ALURI, VENKAT SUMAN	
CICHOCKI, TERRY	
COLUMBIA INVESTMENTS LLC	
CRP/BI JENKS RD APEX OWNER LLC	
DAS, DEBRUP TRUSTEE PATRA, PAMELA TRUSTEE	
DRAGUN, BRIAN TRUSTEE DRAGUN, MARCI TRUSTEE	
DURAISAMY, SARAVANAKUMAR CHANDRAN, DEEPIKA	
GUHA, SUBHAJIT DASGUPTA, NIKITA	
JADHAV, RAVIPRAKASH JADHAV, ANITA	
JOHNEY, ANUP ANUP, ALLIJA	
KASIVISWANATHAN, MUTHURAMAN MUTHURAMAN TRUSTEE LAKSHMANAN, YEGAMMAI TRUSTEE	
KASULA, NIKHIL KALASHIKA, KEERTHANA	
KASYAP, GOVIND DABIRU DABIRU, VISALI	
LIU, YONG JUAN	
LOFARO, WINTER NACOLE	
NELAPATI, MADHUSUDHANARAO CHUNCHU, ASWINI	
OLEN VILLAGES AT WESTFORD CORP	
OTTAWAY, DANNY L OTTAWAY, JOAN M	
PABBAREDDY, UPENDRASAI BEERAM, SRI KAIVALYA	
PADINHARECHALIL KOYILERIAN, RANJEETH KUMAR SASIDHARAN, NIMMY	
PAMIDI, ABHIRAM GUDUPUDI, RAMYA	
PATEL, VRAJESH RAMESHBHAI PATEL, MEGHA VRAJESH	
PENMETSA, DILEEP KUMAR TRUSTEE NADIMPALLI, ARUNA TRUSTEE	
POOLE, TERRY D	
POONIA, KAMALKUMAR KADIAN, MEENAKSHI	
SAHA, SUKANYA GHOSH, SHATADAL	
SATHYAMURTHY, JAYAPRAKASH SHANKAR, SUMA	
SHELL, JOHN SCOTT SHELL, SUSAN FINK	
SURYAPRAKASAM, HEMACHANDRAN TRUONG-HEMACHANDRAN, NGAN	
SUTRADHAR, DIPAN SUTRADHAR, KANCHI	
THE PRESERVE AT WHITE OAK CREEK HOMEOWNERS ASSOCIA	
TOWN OF APEX	
TOWNES AT WESTFORD OWNERS ASSOCIATION INC	
WELLFIELD DEVELOPMENT LLC	
XU, XIN LI, ZHE	
ZHANG, KEVIN HUA	
APEX TOWN OF	
Current Tenant	
Current Tenant	
Current Tenant	
Current Tenant	
Current Tenant	

Current Tenant

OWNER

MAILING ADDRESS 1615 WIMBERLY RD APEX NC 27523-6803 719 WHITE OAK POND RD APEX NC 27523-8507 2609 RAMBLING CREEK RD APEX NC 27523-7806 PO BOX 8005 CARY NC 27512-8005 2638 RAMBLING CREEK RD APEX NC 27523-7806 2617 RAMBLING CREEK RD APEX NC 27523-7806 8108 JENKS RD APEX NC 27523-9423 PO BOX 1897 APEX NC 27502-1100 1001 PENNSYLVANIA AVE NW STE 220 WASHINGTON DC 20004-2525 2637 RAMBLING CREEK RD APEX NC 27523-7806 2608 PRINDLE RD BELMONT CA 94002-1512 772 MIRKWOOD AVE APEX NC 27523-6260 2642 RAMBLING CREEK RD APEX NC 27523-7806 2641 RAMBLING CREEK RD APEX NC 27523-7806 2624 RAMBLING CREEK RD APEX NC 27523-7806 2629 RAMBLING CREEK RD APEX NC 27523-7806 2601 RAMBI ING CREEK RD APEX NC 27523-7806 776 MIRKWOOD AVE APEX NC 27523-6260 1611 WIMBERLY RD APEX NC 27523-6803 728 WHITE OAK POND RD APEX NC 27523-8507 2605 RAMBLING CREEK RD APEX NC 27523-7806 OLEN PROPERTIES CORP 7 CORPORATE PLAZA DR 10401 CHAPEL HILL RD MORRISVILLE NC 27560-8710 2633 RAMBLING CREEK RD APEX NC 27523-7806 2645 RAMBLING CREEK RD APEX NC 27523-7806 780 MIRKWOOD AVE APEX NC 27523-6260 724 WHITE OAK POND RD APEX NC 27523-8507 2621 RAMBLING CREEK RD APEX NC 27523-7806 1440 WIMBERLY RD APEX NC 27523-9660 2625 RAMBLING CREEK RD APEX NC 27523-7806 APEX NC 27523-6803 1617 WIMBERLY RD 2649 RAMBLING CREEK RD APEX NC 27523-7806 720 WHITE OAK POND RD APEX NC 27523-8507 APEX NC 27523-7845 736 MEADOWSIDE CT 2613 RAMBLING CREEK RD APEX NC 27523-7806 15501 WESTON PKWY STE 100 CARY NC 27513-8636 PO BOX 250 APEX NC 27502-0250 15501 WESTON PKWY STE 100 CARY NC 27513-8636 4441 SIX FORKS RD STE 106-117 RALEIGH NC 27609-5729 2618 RAMBLING CREEK RD APEX NC 27523-7806 1619 WIMBERLY RD APEX NC 27523-6803 PO BOX 250 APEX NC 27502 13101 Fletcherstone WAY **APEX NC 27523** 13102 Fletcherstone WAY APEX NC 27523 13103 Fletcherstone WAY APEX NC 27523 13104 Fletcherstone WAY APEX NC 27523 13105 Fletcherstone WAY APEX NC 27523 13106 Fletcherstone WAY APEX NC 27523 13107 Fletcherstone WAY APEX NC 27523 13108 Fletcherstone WAY APEX NC 27523 13201 Fletcherstone WAY APEX NC 27523 13202 Fletcherstone WAY APEX NC 27523 13203 Fletcherstone WAY APEX NC 27523 13204 Fletcherstone WAY **APEX NC 27523** 13205 Fletcherstone WAY APEX NC 27523 13206 Fletcherstone WAY APEX NC 27523 13207 Fletcherstone WAY APEX NC 27523 13208 Fletcherstone WAY **APEX NC 27523** 13301 Fletcherstone WAY APEX NC 27523 13302 Fletcherstone WAY APEX NC 27523 13303 Eletcherstone WAY APEX NC 27523 13304 Fletcherstone WAY APEX NC 27523 13305 Fletcherstone WAY APEX NC 27523 13306 Fletcherstone WAY APEX NC 27523 13307 Fletcherstone WAY APEX NC 27523 13308 Fletcherstone WAY APEX NC 27523 15101 Fletcherstone WAY **APEX NC 27523** 15102 Eletcherstone WAY APEX NC 27523 15103 Fletcherstone WAY APEX NC 27523 15104 Fletcherstone WAY APEX NC 27523 15201 Fletcherstone WAY APEX NC 27523 15202 Fletcherstone WAY APEX NC 27523 15203 Fletcherstone WAY APEX NC 27523 15204 Fletcherstone WAY APEX NC 27523 15301 Fletcherstone WAY APEX NC 27523 15302 Fletcherstone WAY APEX NC 27523 15303 Fletcherstone WAY APEX NC 27523 15304 Fletcherstone WAY APEX NC 27523 16101 Fletcherstone WAY **APEX NC 27523**

1

NEWPORT BEACH CA 92660-7904

Current Tenant Current Tenant

16102 Fletcherstone WAY	APEX NC 27523
16103 Fletcherstone WAY	APEX NC 27523
16104 Fletcherstone WAY 16201 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
16202 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
16203 Fletcherstone WAY	APEX NC 27523
16204 Fletcherstone WAY	APEX NC 27523
16301 Fletcherstone WAY 16302 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
16303 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
16304 Fletcherstone WAY	APEX NC 27523
18101 Fletcherstone WAY	APEX NC 27523
18102 Fletcherstone WAY 18103 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
18104 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
18105 Fletcherstone WAY	APEX NC 27523
18106 Fletcherstone WAY	APEX NC 27523
18107 Fletcherstone WAY 18108 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
18201 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
18202 Fletcherstone WAY	APEX NC 27523
18203 Fletcherstone WAY	APEX NC 27523
18204 Fletcherstone WAY 18205 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
18206 Fletcherstone WAY	APEX NC 27523
18207 Fletcherstone WAY	APEX NC 27523
18208 Fletcherstone WAY	APEX NC 27523
18301 Fletcherstone WAY 18302 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
18303 Fletcherstone WAY	APEX NC 27523
18304 Fletcherstone WAY	APEX NC 27523
18305 Fletcherstone WAY	APEX NC 27523
18306 Fletcherstone WAY 18307 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
18308 Fletcherstone WAY	APEX NC 27523
20101 Fletcherstone WAY	APEX NC 27523
20102 Fletcherstone WAY	APEX NC 27523
20103 Fletcherstone WAY 20104 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
20105 Fletcherstone WAY	APEX NC 27523
20106 Fletcherstone WAY	APEX NC 27523
20107 Fletcherstone WAY	APEX NC 27523
20108 Fletcherstone WAY 20201 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
20202 Fletcherstone WAY	APEX NC 27523
20203 Fletcherstone WAY	APEX NC 27523
20204 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
20205 Fletcherstone WAY 20206 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
20207 Fletcherstone WAY	APEX NC 27523
20208 Fletcherstone WAY	APEX NC 27523
20301 Fletcherstone WAY 20302 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
20303 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
20304 Fletcherstone WAY	APEX NC 27523
20305 Fletcherstone WAY	APEX NC 27523
20306 Fletcherstone WAY 20307 Fletcherstone WAY	APEX NC 27523 APEX NC 27523
20308 Fletcherstone WAY	APEX NC 27523
1101 Haybeck LN	APEX NC 27523
1102 Haybeck LN	APEX NC 27523
1103 Haybeck LN 1104 Haybeck LN	APEX NC 27523 APEX NC 27523
1201 Haybeck LN	APEX NC 27523
1202 Haybeck LN	APEX NC 27523
1203 Haybeck LN	APEX NC 27523
1204 Haybeck LN 1301 Haybeck LN	APEX NC 27523 APEX NC 27523
1302 Haybeck LN	APEX NC 27523
1303 Haybeck LN	APEX NC 27523
1304 Haybeck LN 2101 Haybeck LN	APEX NC 27523
2101 Haybeck LN 2102 Haybeck LN	APEX NC 27523 APEX NC 27523
2103 Haybeck LN	APEX NC 27523
2104 Haybeck LN	APEX NC 27523
2105 Haybeck LN 2106 Haybeck LN	APEX NC 27523 APEX NC 27523
2100 Haybeck LN 2107 Haybeck LN	APEX NC 27523 APEX NC 27523
2108 Haybeck LN	APEX NC 27523
2201 Haybeck LN	APEX NC 27523

Current	Tenant
Current	Tenant
	Tenant
Current	Tenant
Current Current	Tenant
	Tenant
Current	Tenant
Current	Tenant
Current	Tenant
Current Current	Tenant
Current	Tenant
	Tenant
ounone	Tenant
Current	Tenent
Current	Tenant
Current	Tenant
	Terrent
Current	lenant
Current Current	Tenant Tenant
Current Current	Tenant Tenant
Current Current Current Current	Tenant Tenant Tenant Tenant
Current Current Current Current	Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current	Tenant Tenant
Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current	Tenant Tenant
Current Current	Tenant Tenant
Current Current	Tenant Tenant
Current Curren	Tenant Tenant
Current Current	Ienant Tenant
Current Current	Tenant Tenant
Current Current	I enant Tenant
Current Current	I enant Tenant
Current Current	I enant Tenant
Current Current	I enant Tenant
Current Current	Jenant Tenant
Current Current	I enant Tenant
Current Current	Jenant Tenant
Current Current	Jenant Tenant
Current Current	Jenant Tenant
Current Current	I enant Tenant
Current Current	I enant Tenant
Current Current	Jenant Te
Current Current	I enant Tenant

2202 Haybeck LN	APEX NC 27523
2203 Haybeck LN	APEX NC 27523
2204 Haybeck LN	APEX NC 27523
2205 Haybeck LN	APEX NC 27523
2206 Haybeck LN 2207 Haybeck LN	APEX NC 27523 APEX NC 27523
2208 Haybeck LN	APEX NC 27523
2301 Haybeck LN	APEX NC 27523
2302 Haybeck LN	APEX NC 27523
2303 Haybeck LN	APEX NC 27523
2304 Haybeck LN 2305 Haybeck LN	APEX NC 27523 APEX NC 27523
2306 Haybeck LN	APEX NC 27523
2307 Haybeck LN	APEX NC 27523
2308 Haybeck LN	APEX NC 27523
3101 Haybeck LN 3102 Haybeck LN	APEX NC 27523 APEX NC 27523
3103 Haybeck LN	APEX NC 27523 APEX NC 27523
3104 Haybeck LN	APEX NC 27523
3105 Haybeck LN	APEX NC 27523
3106 Haybeck LN	APEX NC 27523
3107 Haybeck LN	APEX NC 27523
3108 Haybeck LN 3201 Haybeck LN	APEX NC 27523 APEX NC 27523
3202 Haybeck LN	APEX NC 27523
3203 Haybeck LN	APEX NC 27523
3204 Haybeck LN	APEX NC 27523
3205 Haybeck LN	APEX NC 27523
3206 Haybeck LN 3207 Haybeck LN	APEX NC 27523 APEX NC 27523
3208 Haybeck LN	APEX NC 27523
3301 Haybeck LN	APEX NC 27523
3302 Haybeck LN	APEX NC 27523
3303 Haybeck LN	APEX NC 27523
3304 Haybeck LN 3305 Haybeck LN	APEX NC 27523 APEX NC 27523
3306 Haybeck LN	APEX NC 27523
3307 Haybeck LN	APEX NC 27523
3308 Haybeck LN	APEX NC 27523
4001 Haybeck LN	APEX NC 27523
4002 Haybeck LN 4005 Haybeck LN	APEX NC 27523 APEX NC 27523
4006 Haybeck LN	APEX NC 27523
4101 Haybeck LN	APEX NC 27523
4102 Haybeck LN	APEX NC 27523
4103 Haybeck LN	APEX NC 27523
4104 Haybeck LN 4105 Haybeck LN	APEX NC 27523 APEX NC 27523
4106 Haybeck LN	APEX NC 27523
4107 Haybeck LN	APEX NC 27523
4108 Haybeck LN	APEX NC 27523
4201 Haybeck LN	APEX NC 27523 APEX NC 27523
4202 Haybeck LN 4203 Haybeck LN	APEX NC 27523
4204 Haybeck LN	APEX NC 27523
4205 Haybeck LN	APEX NC 27523
4206 Haybeck LN	APEX NC 27523
4207 Haybeck LN 4208 Haybeck LN	APEX NC 27523 APEX NC 27523
4301 Haybeck LN	APEX NC 27523
4302 Haybeck LN	APEX NC 27523
4303 Haybeck LN	APEX NC 27523
4304 Haybeck LN	APEX NC 27523
4305 Haybeck LN 4306 Haybeck LN	APEX NC 27523 APEX NC 27523
4307 Haybeck LN	APEX NC 27523 APEX NC 27523
4308 Haybeck LN	APEX NC 27523
5101 Haybeck LN	APEX NC 27523
5102 Haybeck LN	APEX NC 27523
5103 Haybeck LN 5104 Haybeck LN	APEX NC 27523 APEX NC 27523
5105 Haybeck LN	APEX NC 27523
5106 Haybeck LN	APEX NC 27523
5107 Haybeck LN	APEX NC 27523
5108 Haybeck LN	APEX NC 27523
5201 Haybeck LN 5202 Haybeck LN	APEX NC 27523 APEX NC 27523
5203 Haybeck LN	APEX NC 27523
5204 Haybeck LN	APEX NC 27523
5205 Haybeck LN	APEX NC 27523

Current	Tenant
Current	Tenant
	Tenant
Current	Tenant
Current Current	Tenant
	Tenant
Current	Tenant
Current	Tenant
Current	Tenant
Current Current	Tenant
Current	Tenant
	Tenant
ounone	Tenant
Current	Tenent
Current	Tenant
Current	Tenant
	Terrent
Current	lenant
Current Current	Tenant Tenant
Current Current	Tenant Tenant
Current Current Current Current	Tenant Tenant Tenant Tenant
Current Current Current Current	Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current	Tenant Tenant
Current Current	Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant Tenant
Current Current	Tenant Tenant
Current Current	Tenant Tenant
Current Current	Tenant Tenant
Current Current	Tenant Tenant
Current Current	Ienant Tenant
Current Current	Tenant Tenant
Current Current	I enant Tenant
Current Current	I enant Tenant
Current Current	I enant Tenant
Current Current	I enant Tenant
Current Current	Jenant Tenant
Current Current	I enant Tenant
Current Current	Jenant Tenant
Current Current	Jenant Tenant
Current Current	Jenant Tenant
Current Current	Jenant Te
Current Current	Jenant Te
Current Current	I enant Tenant
Current Current	Jenant Te

5206 Haybeck LN	APEX NC 27523
5207 Haybeck LN	APEX NC 27523
5208 Haybeck LN	APEX NC 27523
5301 Haybeck LN	APEX NC 27523
5302 Haybeck LN 5303 Haybeck LN	APEX NC 27523 APEX NC 27523
5304 Haybeck LN	APEX NC 27523
5305 Haybeck LN	APEX NC 27523
5306 Haybeck LN	APEX NC 27523
5307 Haybeck LN 5308 Haybeck LN	APEX NC 27523 APEX NC 27523
6001 Haybeck LN	APEX NC 27523
6002 Haybeck LN	APEX NC 27523
6005 Haybeck LN	APEX NC 27523
6006 Haybeck LN	APEX NC 27523
6101 Haybeck LN 6102 Haybeck LN	APEX NC 27523 APEX NC 27523
6103 Haybeck LN	APEX NC 27523
6104 Haybeck LN	APEX NC 27523
6105 Haybeck LN	APEX NC 27523
6106 Haybeck LN	APEX NC 27523 APEX NC 27523
6107 Haybeck LN 6108 Haybeck LN	APEX NC 27523 APEX NC 27523
6201 Haybeck LN	APEX NC 27523
6202 Haybeck LN	APEX NC 27523
6203 Haybeck LN	APEX NC 27523
6204 Haybeck LN	APEX NC 27523
6205 Haybeck LN 6206 Haybeck LN	APEX NC 27523 APEX NC 27523
6207 Haybeck LN	APEX NC 27523
6208 Haybeck LN	APEX NC 27523
6301 Haybeck LN	APEX NC 27523
6302 Haybeck LN	APEX NC 27523
6303 Haybeck LN 6304 Haybeck LN	APEX NC 27523 APEX NC 27523
6305 Haybeck LN	APEX NC 27523
6306 Haybeck LN	APEX NC 27523
6307 Haybeck LN	APEX NC 27523
6308 Haybeck LN	APEX NC 27523
7101 Haybeck LN	APEX NC 27523 APEX NC 27523
7102 Haybeck LN 7103 Haybeck LN	APEX NC 27523 APEX NC 27523
7104 Haybeck LN	APEX NC 27523
7105 Haybeck LN	APEX NC 27523
7106 Haybeck LN	APEX NC 27523
7107 Haybeck LN 7108 Haybeck LN	APEX NC 27523 APEX NC 27523
7201 Haybeck LN	APEX NC 27523
7202 Haybeck LN	APEX NC 27523
7203 Haybeck LN	APEX NC 27523
7204 Haybeck LN	APEX NC 27523
7205 Haybeck LN 7206 Haybeck LN	APEX NC 27523 APEX NC 27523
7207 Haybeck LN	APEX NC 27523 APEX NC 27523
7208 Haybeck LN	APEX NC 27523
7301 Haybeck LN	APEX NC 27523
7302 Haybeck LN	APEX NC 27523
7303 Haybeck LN 7304 Haybeck LN	APEX NC 27523 APEX NC 27523
7305 Haybeck LN	APEX NC 27523
7306 Haybeck LN	APEX NC 27523
7307 Haybeck LN	APEX NC 27523
7308 Haybeck LN	APEX NC 27523
9101 Haybeck LN	APEX NC 27523
9102 Haybeck LN 9103 Haybeck LN	APEX NC 27523 APEX NC 27523
9104 Haybeck LN	APEX NC 27523
9201 Haybeck LN	APEX NC 27523
9202 Haybeck LN	APEX NC 27523
9203 Haybeck LN	APEX NC 27523
9204 Haybeck LN 9301 Haybeck LN	APEX NC 27523 APEX NC 27523
9302 Haybeck LN	APEX NC 27523
9303 Haybeck LN	APEX NC 27523
9304 Haybeck LN	APEX NC 27523
11101 Haybeck LN	APEX NC 27523
11102 Haybeck LN 11103 Haybeck LN	APEX NC 27523 APEX NC 27523
11104 Haybeck LN	APEX NC 27523
11105 Haybeck LN	APEX NC 27523

Current Tenant
Current Tenant
Sanone Fondine
Current Tenant

11106 Haybeck LN	APEX NC 27523
11107 Haybeck LN	APEX NC 27523
11108 Haybeck LN	APEX NC 27523
11201 Haybeck LN	APEX NC 27523
11202 Haybeck LN	APEX NC 27523
11203 Haybeck LN	APEX NC 27523
11204 Haybeck LN	APEX NC 27523
11205 Haybeck LN	APEX NC 27523
11206 Haybeck LN	APEX NC 27523
11207 Haybeck LN	APEX NC 27523
11208 Haybeck LN	APEX NC 27523
11301 Haybeck LN	APEX NC 27523
11302 Haybeck LN	APEX NC 27523
11303 Haybeck LN	APEX NC 27523
11304 Haybeck LN	APEX NC 27523
11305 Haybeck LN	APEX NC 27523
11306 Haybeck LN	APEX NC 27523
11307 Haybeck LN	APEX NC 27523
11308 Haybeck LN	APEX NC 27523
1408 Wimberly RD	APEX NC 27523
1533 Wimberly RD	APEX NC 27523
1613 Wimberly RD	APEX NC 27523

AFFIDAVIT OF CONDUCTING A NEIGHBORHOOD MEETING, SIGN-IN SHEET AND ISSUES/RESPONSES SUBMITTAL

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Matthew 7. Corputer, do hereby declare as follows:

- 1. I have conducted a Neighborhood Meeting for the proposed Rezoning, Major Site Plan, Minor Site Plan, Residential Master Subdivision Plan, or Special Use Permit in accordance with UDO Sec. 2.2.7.B *Neighborhood Meeting*.
- 2. The meeting invitations were mailed to the Apex Planning Department, all property owners and tenants abutting and within 300 feet of the subject property and any neighborhood association that represents citizens in the notification area via first class mail a minimum of 14 days in advance of the Neighborhood Meeting.
- 3. The meeting was conducted at <u>virtually via Zavm</u> (location/address) on <u>5/22/2024</u> (date) from <u>6 are m</u> (start time) to <u>7:00PM</u> (end time).
- 4. I have included the mailing list, meeting invitation, sign-in sheet, issue/response summary, and zoning map/reduced plans with the application.
- 5. I have prepared these materials in good faith and to the best of my ability.

2024

STATE OF NORTH CAROLINA COUNTY OF WAKE

Sworn and subscribed before me, Matthew J. Carpenter, a Notary Public for the above State and County, on this the 23rd day of May 2024

My Commission Expires: Detaber 22008

Last Updated: April 11, 2023

Wood Partners

APEX ENVIRONMENTAL ADVISORY BOARD Suggested Zoning Conditions



Project Name: Altera Heights

Date:

The Town of Apex Environmental Advisory Board offers this general list of suggested rezoning conditions for rezoning applicants to consider before filling a rezoning petition. The purpose of this list is to encourage and recommend implementation of exceptional environmental practices for future development that exceeds Town requirements. The Board will review each rezoning pre-application request and expand on suggested conditions by offering specific recommendations on a case-by-case basis.

The decision to include any of the recommendations below is voluntary by the applicant and the Board does not expect applicants to add all of the suggested conditions. Planning staff will include all zoning conditions suggested by this Board and will note which conditions have been added by the applicant in the staff reports to the Planning Board and Town Council. Applicants should review this list before meeting with the Board. <u>NOTE: Text in green indicates suggested zoning condition language from</u> Planning Staff. <u>Underlined text indicates text or numbers that may be changed based on the specific project</u>. Additional conditions may be suggested by the EAB at the meeting.

This document is divided into two parts:

- <u>Part I Residential</u> applies to single-family dwellings and townhome subdivisions, but does not include the parking lots, exterior building lights or exterior architecture.
- <u>Part II Non-Residential</u> includes condominiums, apartments, and multi-family, common areas in residential developments (e.g. amenity areas, parking lots, exterior building lights, and exterior architecture), commercial, office, and industrial areas. Your development may include elements of each part.

Please be sure to read and complete the entire document. Please provide a response to each goal and/or sub-goal. Any proposed modifications to the green zoning language should be listed in the section at the end of the document.

<u> Part I – Residential</u>

Single-family dwelling and townhome subdivisions (excluding parking lots, exterior building lights and exterior architecture).

STORMWATER AND WATER CONSERVATION – WATER QUALITY (1-5)	YES	NO	N/A
Goal 1. Increase riparian buffer widths from surface waters in environmentally sensitive areas. The project shall increase the riparian buffer width by at least feet above the minimum required by the Unified Development Ordinance. The additional buffer width shall be measured from the top of bank on each side of the stream.			
Goal 2. Install signage near environmental sensitive areas in order to reduce pet waste and excess nutrient inputs near Stormwater Control Measure (SCM) drainage areas.			

STORMWATER AND WATER CONSERVATION – WATER QUALITY (1-5)	YES	NO	N/A
The project shall install one (1) sign per SCM to reduce pet waste and prohibit fertilizer, in locations that are publicly accessible, such as adjacent to amenity centers, sidewalks, greenways, or side paths.			
Goal 3. Implement Low Impact Development (LID) techniques as defined by the NC			
Department of Environmental Quality. The project shall install a minimum of Low Impact Development Technique as defined and approved by the NC Department of Environmental Quality. The specific type of LID technique shall be reviewed and approved by the Water Resources Department at site or subdivision plan review.			
Goal 4. Increase pervious surface to reduce stormwater runoff and pollutant concentrations.			
<u>Option 5.1:</u> Install pervious pavements where practicable (e.g. when parking maximums are exceeded). The Department of Public Works & Transportation does not currently support these options within the right-of-way (ROW). These may be done on private sites, but not within the public ROW.			
a. The project shall utilize pervious pavement when constructing the parking spaces for parking lot-style townhomes. The specific type of pervious pavement system shall be reviewed and approved by the Water Resources Department at site or subdivision plan review. The selected system shall be maintained by the developer and/or owner's association.			
AND/OR			
b. The project shall utilize pervious pavement when constructing the driveways for residential units. The specific type of pervious pavement system shall be reviewed and approved by the Water Resources Department at site or subdivision plan review. The selected system shall be maintained by the developer and/or owner's association.			
Goal 5. Use the stormwater captured in the on-site SCM to irrigate landscaping within			
the development.			
At least SCM shall be designed and constructed to provide irrigation to the surrounding landscaping on site. The design shall be reviewed and approved by the Water Resources Department at site plan.			

PLANTING AND LANDSCAPING (6-13)	YES	NO	N/A
Goal 6. Preserve tree canopy and prioritize medium to large, healthy, desirable species.			
 <u>Option 6.1</u>: Preserve existing trees (percentage-based). Numbers shown may be changed based on project. The project shall preserve a minimum of <u>%</u> of the existing tree canopy. Where the project abuts adjacent developments, special effort shall be taken to locate the preserved trees adjacent to areas of preserved open space, including but not limited to, RCA, perimeter landscape buffers, riparian buffers, and/or HOA maintained open spaces. 			
 <u>Option 6.2</u>: Replace canopy (percentage- or DBH size-based) where there is sufficient space. The project shall replace any large type trees, that measure 18-inches in caliper size or larger, and small type trees, that measure 8-inches in caliper size or larger, that are removed as a part of the development. The ratio of replacement shall be 1 large tree to 1 replacement tree of similar species or mature size. The UDO's required landscaping may be used to satisfy this requirement. To determine the number of trees that must be replaced, a tree survey for the full property shall be provided to the Planning Department. The survey shall be independently verified by a third-party licensed arborist. 			

PLANTING AND LANDSCAPING (6-13)	YES	NO	N/A
Goal 7. Plant trees to improve energy efficiency.			
<u>Option 7.1</u> : Plant deciduous shade trees on southern side of buildings. To improve energy efficiency, a combination of large and small deciduous shade trees shall be planted on the southern side of any buildings.			
<u>Option 7.2</u> : Plant evergreen trees as a windbreak on northern side of buildings. To improve energy efficiency, the project shall plant evergreen trees on the northern side of all buildings to act as a windbreak.			
Goal 8. Increase biodiversity.			
 <u>Note</u>: Invasive species are prohibited. Please see the Town's <u>Design and Development</u> <u>Manual</u> for a link to the list of prohibited species. <u>Option 8.1</u>: Plant pollinator-friendly flora. Provide diverse and abundant pollinator and bird food sources (e.g. Snectar, pollen, and berries from blooming plants) that bloom in succession from spring to fall. (Refer to the Apex <u>Design & Development</u> 			
 Manual for suggested native species). a. The project shall ensure that <u>%</u> of the landscaping shall be native species, which shall provide diverse and abundant pollinator and bird food sources. Special attention shall be paid to providing diverse and abundant pollinator and bird food sources, including plants that bloom in succession from spring to fall. Landscaping shall be coordinated with and approved by the Planning Department at site or subdivision review. 			
<u>Option 8.2</u> : Provide and allow for undisturbed spaces (e.g. leaf piles, unmown fields, fallen trees) for nesting and overwintering for native pollinators and wildlife. In order to support wildlife and pollinators, HOA covenants shall not require that fallen leaves or dormant plants be removed during the winter on areas without turf grass, including individual homes and HOA owned common areas.			
<u>Option 8.3</u> : Retain and protect old ponds if the dam is structurally sound. To preserve and protect existing species, existing ponds shall be preserved if structurally sound.			
 <u>Option 8.4</u>: Increase the number of native trees and shrubs. a. The project shall increase biodiversity within perimeter buffers, common owned open space, and other landscape areas by providing a variety of native and adaptive species for the canopy, understory and shrub levels. A minimum of <u>%</u> of the species selected shall be native or a native of North Carolina. <u>AND/OR</u> 			
 b. No single species of native or adaptive vegetation shall constitute more than <u>20%</u> of the plant material of its type within a single development site. 			
Goal 9. Implement xeriscaping in design, which will use landscaping that requires less irrigation and chemical use. Contact Planning for assistance, if needed.			
 a. The project commits to planting only drought tolerant plants, of which <u>%</u> of the plants selected shall be native. Landscaping shall be coordinated with and approved by the Planning Department at site or subdivision review. 			
 b. To reduce irrigation requirements, the project shall select and plant only warm season grasses. 			
Goal 10. Promote the benefits of native pollinators. The project shall plant at least native pollinator demonstration garden within the development. The developer shall coordinate with a local or state agency that specializes in the design or certification of such gardens. Informational signage regarding the purpose of the garden and selected vegetation shall be provided. The			
 pollinator garden shall be maintained by the developer or HOA. Goal 11. Improve soil quality to be amenable for a variety of native and non-invasive plantings. 			

Environmental Advisory Board – Suggested Zoning Conditions

PLANTING AND LANDSCAPING (6-13)	YES	NO	N/A
To encourage the establishment of healthy plants, reduce fertilizers, and reduce stormwater runoff, topsoil shall be retained on site and a minimum of 4 inches of topsoil shall be placed on each lot and within disturbed common areas.			
Goal 12. Increase perimeter buffer requirements, especially in transitional areas (nonresidential to residential areas).			
The UDO requires afoot buffer along theperimeter of the property. The applicant shall addfoot buffer in that location, which would be an increase offeet above the requirement.			
 Goal 13. Reduce impacts to resource conservation Areas (RCAs). a. The project shall install signage adjacent to wooded or natural condition Resource Conservation Area. The signage shall indicate that the area is RCA and is to be preserved in perpetuity and not disturbed. OR 			
 A farm-style split rail fence shall be installed where wooded or natural condition Resource Conservation Area (RCA) abuts individual residential lots. 			

SUSTAINABLE BUILDINGS (14)	YES	NO	N/A
 Goal 14. Apply for green building certifications, such as LEED, Energy Star, BREEAM, Green Globes, NGBS Green, or GreenGuard. The project shall be designed to meet the requirements for one of the green building certifications listed above. A third-party consultant shall be hired to evaluate the project and certify to the Town of Apex that the project meets the standards for the certification. The applicant shall forward a copy of the certification application to the Town of Apex Planning Department to verify that the application has been submitted. 			

WASTE MANAGEMENT (15)	YES	NO	N/A
 Goal 15. Encourage the proper disposal of pet waste to reduce environmental impacts. Numbers shown may be changed based on project. The project shall install at least one (1) pet waste station per 25 residential units throughout the community in locations that are publicly accessible, such as adjacent to amenity centers, SCMs, sidewalks, greenways or side paths. If there fewer than 25 homes, at least one (1) pet waste station shall be installed. 			

CLEAN ENERGY (16-18)	Y	ES	NO	N/A
Goal 16. Install rooftop solar on buildings.				
a. A solar PV system of at least <u>kW</u> shall be installed on at least <u>he</u> within the development. All solar installation required by this condition share completed or under construction prior to 90% of the building permits be issued for the development. The lot(s) on which this home/these homes is located shall be identified on the Master Subdivision Plat, which ma amended from time to time.	ill be peing s/are			
 AND/OR b. A solar PV system shall be installed on a minimum ofmodel home. All installation required by this condition shall be completed or under construprior to% of the building permits being issued for the development lot(s) on which this home/these homes is/are located shall be identified on Master Subdivision Plat, which may be amended from time to time. AND/OR 	tion The			

Environmental Advisory Board – Suggested Zoning Conditions

CLEAN ENERGY (16-18)		YES	NO	N/A
c. The amenity center for the project shall include a rooftop solar PV a capacity of at least kWHs.	system with			
Goal 17. Include solar conduit in building design. All homes shall be pre-configured with conduit for a solar energy system	m.			
Goal 18. Encourage clean transportation. The developer shall install at leastelectric vehicle charging statio centers or common area parking lots.	n in amenity			

Part II - Non-Residential

Includes condominiums, apartments, and multi-family, common areas in residential developments (e.g. amenity areas, parking lots, exterior building lights, and exterior architecture), commercial, office, and industrial areas.

•	STORMWATER AND WATER CONSERVATION – WATER QUANTITY (1)	YES	NO	N/A
re th to	ncrease design storm for retention basin in flood-prone areas. The UDO equires that treatment for the first 1-inch of runoff will be provided such that he removal of 85% Total Suspended Solids is achieved. Each option is intended o be used as an improvement to the minimum UDO requirements. If an area is ilready required to mitigate the 25-year storm, option b should not be selected.			
tł	Post-development peak runoff shall not exceed pre-development peak runoff for he 24-hour, 1-year, 10-year, 25-year and <u>100-year storm events</u> in accordance with the Unified Development Ordinance.			
tł	OR Post development peak runoff shall not exceed pre-development peak runoff for he 24-hour, 1-year, 10-year, and <u>25-year storm events</u> in accordance with the Jnified Development Ordinance.			

STORMWATER AND WATER CONSERVATION – WATER QUALITY (2-7)	YES	NO	N/A
Goal 2. Increase riparian buffer widths from surface waters in environmentally sensitive areas. The project shall increase the riparian buffer width by at leastfeet above the minimum required by the Unified Development Ordinance. The additional buffer width shall be measured from the top of bank on each side of the stream.			
 Goal 3. Limit tree clearing, stormwater control measures (SCM), or infrastructure in either zone of the riparian buffer. No clearing or land disturbance shall be permitted within the riparian buffer, except the minimum necessary to install required sewer infrastructure and SCM outlets. The SCM water storage and treatment area shall not be permitted within the riparian buffer. The sewer shall be designed to minimize impacts to the riparian buffer. 			N
 Goal 4. Install signage near environmental sensitive areas in order to reduce pet waste and excess nutrient inputs near Stormwater Control Measure (SCM) drainage areas. The project shall install one (1) sign per SCM to reduce pet waste and prohibit fertilizer, in locations that are publicly accessible, such as adjacent to amenity centers, sidewalks, greenways, or side paths. 			
Goal 5. Implement low impact development (LID) techniques as defined by the NC Department of Environmental Quality. The project shall install a minimum ofLow Impact Development Technique as defined and approved by the NC Department of Environmental Quality. The specific			

STORMWATER AND WATER CONSERVATION – WATER QUALITY (2-7)	YES	NO	N/A
type of LID technique shall be reviewed and approved by the Water Resources Department at site or subdivision plan review.			
Goal 6. Increase pervious surface to reduce stormwater runoff and pollutant concentrations. The Department of Public Works & Transportation does not currently support these options within the ROW. These may be done on private sites, but not within the public ROW.			
<u>Option 6.1</u> : Install pervious pavements where practicable (e.g. when parking maximums are exceeded).			
a. The project shall utilize pervious pavement when constructing parking spaces that are in excess of the minimum parking requirement. The specific type of pervious pavement system shall be reviewed and approved by the Water Resources Department at site or subdivision plan review.			
AND/OR			
 b. The project shall utilize pervious pavement for all of the parking spaces provided. The specific type of pervious pavement system shall be reviewed and approved by the Water Resources Department at site or subdivision plan review. <u>Option 6.2</u>: Modify curb and gutters to provide stormwater infiltration and 			
evaporation, such as swale-only, reverse curbs, Silva cells, or curb cuts with rain gardens. To increase stormwater infiltration and evaporation, the project shall use modified			
curb and gutter designs to direct driveway runoff to one or more stormwater device, such as, but not limited to, bioswales, Silva cells, or rain gardens. The specific type and design shall be selected at site or subdivision plan review. The proposal shall be reviewed and approved by the Water Resources Department and Department of Public Works and Transportation.			
<u>Option 6.3</u> : Utilize green street design. May be done within the public ROW if it's in the form of a bioretention cell within a landscaped median or large roundabout. Will require approval by the Department of Public Works and Transportation.			
The project shall design and install one or more bioretention cells within the landscape median or roundabout along the primary road. The specific type and design shall be determined at site or subdivision plan review. The proposal shall be reviewed and approved by the Water Resources Department and Department of Public Works and Transportation.			
Goal 7. Stormwater re-use application: Integrate irrigation from the SCM (wet pond) on site.			
At least oneSCM shall be designed and constructed to provide irrigation to the surrounding landscaping on site. The design shall be reviewed and approved by the Water Resources Department at site plan.			

	PLANTING AND LANDSCAPING (8-15)	YES	NO	N/A
Goal 8.	Preserve tree canopy and prioritize medium to large, healthy, desirable species.			
	tion 8.1: Preserve existing trees (percentage-based). Numbers shown may be anged based on project. The EAB's preference is for a minimum of 50%.			
	The project shall preserve a minimum of% of the existing tree canopy. Preserved areas may include, but are not limited to, RCA, perimeter buffers, riparian buffers and/or HOA maintained open space throughout the neighborhood.			
	OR			
b.	The project shall preserve a minimum of% of the existing tree canopy. Where the project abuts adjacent developments, special effort shall be taken to			

PLANTING AND LANDSCAPING (8-15)	YES	NO	N/A
locate the preserved trees adjacent to areas of existing preserved open space, including but not limited to, RCA, perimeter landscape buffers, riparian buffers, and/or HOA maintained open spaces.			
<u>Option 8.2</u> : Replace canopy (percentage- or DBH size-based) where there is sufficient space.			
The project shall replace any large type trees, that measure 18-inches in caliper size or larger, and small type trees, that measure 8-inches in caliper size or larger, that are removed as a part of the development. The ratio of replacement shall be 1 large tree to 1 replacement tree. The UDO's required landscaping may be used to satisfy this requirement. To determine the number of trees that must be replaced, a tree survey for the full property shall be provided to the Planning Department. The survey shall be independently verified by a third-party licensed arborist.			
Goal 9. Plant trees for improved energy efficiency.			
<u>Option 9.1</u> : Plant deciduous shade trees on southern side of buildings. To improve energy efficiency, a combination of large and small deciduous shade trees shall be planted on the southern side of any buildings.			
<u>Option 9.2</u> : Plant evergreen trees as a windbreak on northern side of buildings. To improve energy efficiency, the project shall plant evergreen trees on the northern side of all buildings to act as a windbreak.			
Goal 10. Increase biodiversity.			
<u>Option 10.1</u> : Plant pollinator-friendly flora. Provide diverse and abundant pollinator and bird food sources (e.g. nectar, pollen, and berries from blooming plants) that bloom in succession from spring to fall. (Refer to the Apex <u>Design & Development</u> <u>Manual</u> for suggested native species).			
a. The project shall select and install tree, shrub and perennial species with special attention to providing diverse and abundant pollinator and bird food sources, including plants that bloom in succession from spring to fall.			
b. The project shall ensure that <u>60</u> % of the landscaping shall be native species. Landscaping shall be coordinated with and approved by the Planning Department at site or subdivision review.			
<u>Option 10.2</u> : Retain and protect old ponds if the dam is structurally sound. To preserve and protect existing species, existing ponds shall be preserved if structurally sound.			
 Option 10.3: Increase the number of native tree and shrub species selected. a. The project shall increase biodiversity within perimeter buffers, common owned open space, and other landscape areas by providing a variety of native and adaptive species for the canopy, understory and shrub levels. A minimum of% of the species selected shall be native or a native of North Carolina. 			
OR b. No invasive species shall be permitted. No single species of tree or shrub shall constitute more than 20% of the plant material of its type within a single development site.			
Goal 11. Implement green infrastructure.			
<u>Option 11.1</u> : Plant rain gardens. The project shall install one or more rain gardens throughout the site.			
Option 11.2: Install vegetated rooftops.			
 a. The project shall install a vegetated rooftop, aka green roof, on each building. OR 			
 b. The project shall install a vegetated rooftop, aka green roof, on at leastft² of each building. 			

PLANTING AND LANDSCAPING (8-15)	YES	NO	N/A
 <u>Option 11.3</u>: Implement xeriscaping in design. a. The project commits to planting% drought tolerant native plants. Landscaping shall be coordinated with and approved by the Planning Department at site or subdivision review. OR 			
b. The project commits to planting only drought tolerant plants. At least% of the plants selected shall be native. Landscaping shall be coordinated with and approved by the Planning Department at site or subdivision review.			
OR c. To reduce irrigation requirements, the project shall select and plant only warm season grasses.			
Goal 12. Install community gardens and native pollinator demonstration gardens. The project shall plant at least native pollinator demonstration garden within the development. The developer shall coordinate with a local or state agency that specializes in the design or certification of such gardens. Informational signage regarding the purpose of the garden and selected vegetation shall be provided.			
Goal 13. Improve soil quality to be amenable for a variety of native and non-invasive plantings.			
To encourage the establishment of healthy plants, reduce fertilizers, and reduce stormwater runoff, topsoil shall be retained on site and a minimum of 4 inches of topsoil shall be placed within disturbed areas.			
Goal 14. Increase perimeter buffer requirements, especially in transitional areas (nonresidential to residential areas). The UDO requires afoot buffer along theperimeter of the property. The applicant is proposing afoot buffer in that location, which would be an increase offeet above the requirement.			
Goal 15. Add information signage or other marking at the boundary of lots when they			
 are adjacent to a wooded or natural condition resource conservation area (RCA) indicating that the area beyond the sign is RCA and is not to be disturbed. a. The project shall install signage adjacent to wooded or natural condition Resource Conservation Area. The signage shall indicate that the area is RCA and is to be preserved in perpetuity and not disturbed. OR 			
 b. A farm-style split rail fence shall be installed where wooded or natural condition Resource Conservation Area (RCA) abuts individual residential lots. 			

SUSTAINABLE BUILDINGS (16)	YES	NO	N/A
 Goal 16. Apply for green building certifications, such as LEED, Energy Star, BREEAM, Green Globes, NGBS Green, or GreenGuard. The project shall be designed to meet the requirements forgreen building certification. A third-party consultant shall be hired to evaluate the project and certify to the Town of Apex that the project meets the standards for the certification. The applicant shall forward a copy of the certification application to the Town of Apex Planning Department to verify that the application has been submitted. 			

WASTE REDUCTION (17)	YES	NO	N/A
Goal 17. Install pet waste stations in public areas for multi-family, apartments, or condominiums or dog friendly businesses.			

WASTE REDUCTION (17)		NO	N/A
The project shall install at least <u>2</u> pet waste stations throughout the community, in locations that are publicly accessible, such as adjacent to amenity centers, SCMs, sidewalks, greenways or side paths.			

		YES	NO	N/A	
Go	oal 18				
	a.	A solar PV system shall be incorporated into buildings to be constructed on the property. Such PV systems shall have a capacity of not less than 2 kW/1,000 heated square feet of building floor area.			
	b.	A solar PV system of at least 3.5kW shall be installed on at least% of or buildings within the development. All solar installation required by this condition shall be completed or under construction prior to% of the building permits being issued for the development. The buildings on which these PV systems are located shall be identified on the Site Plan, which may be amended from time to time.			
		OR			
	c.	The amenity center for the project shall include a rooftop solar PV system with a capacity of at least kWHs.			
G	bal 19). Include solar conduit in building design.			
	bui	e project shall install conduit for solar energy systems for all non-residential ildings. The roof shall also be engineered to support the weight of a future rooftop ar PV system.			
Go	oal 20). Encourage clean transportation.			
	a.	The installation of EV charging spaces shall not reduce the width of adjacent sidewalk to less than 5 feet.			
		AND/OR			
	b.	EV charging spaces shall be located such that the cords shall not cause a trip hazard.			
		AND/OR			
1	с.	The developer shall provide 5% of all parking spaces as EV charging spaces.			

LIGHTING EFFICIENCY (21-24)	YES	NO	N/A
Goal 21. Include energy efficient lighting in building design. <u>Option 21.1</u> : Increase the use of LEDs. The exterior lighting for all multi-family and commercial buildings and parking lots			
 will consist entirely of LED fixtures. <u>Option 21.2</u>: Lower maximum foot-candles outside of buildings. On the lighting plan, the average footcandle measurement for parking, building lighting and driveways shall be at least <u>0.5</u> footcandles lower than the UDO requires. 			
Goal 22. Install timers or light sensors or smart lighting technology.			
a. The project shall install light timers, motion sensors, or other smart lighting technology for all exterior lighting.			
Goal 23. Include International Dark Sky Association compliance standards. The project shall use full cutoff LED fixtures that have a maximum color temperature of 3000K for all exterior lighting, including, but not limited to, parking lot and building mounted fixtures.			

Applicant Clarification/Additional Language:

Additional Board Recommendations:

NOTICE OF NEIGHBORHOOD MEETING

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

April 1, 2025

Date

Dear Neighbor:

You are invited to a neighborhood meeting to review and discuss the development proposal at See attached Exhibit A See attached Exhibit A

Address(es)

PIN(s)

in accordance with the Town of Apex Neighborhood Meeting procedures. This meeting is intended to be a way for the applicant to discuss the project and review the proposed plans with adjacent neighbors and neighborhood organizations before the submittal of an application to the Town. This provides neighbors an opportunity to raise questions and discuss any concerns about the impacts of the project before it is officially submitted. If you are unable to attend, please refer to the Project Contact Information page for ways to contact the applicant. Notified neighbors may request that the applicant provide updates and send plans via email or mail. Once an application has been submitted to the Town, it may be tracked using the <u>Interactive Development Map</u> or the <u>Apex Development Report</u> located on the Town of Apex website at <u>http://www.apexnc.org/180</u>. Applications for Rezoning must hold a second Neighborhood Meeting in the month prior to the anticipated public hearing date.

A Neighborhood Meeting is required because this project includes (check all that apply):

Арр	lication Type	Approving Authority
\checkmark	Rezoning (including Planned Unit Development)	Town Council
	Major Site Plan	Technical Review Committee (staff)
	Minor Site Plan for the uses "Day care facility", "Government service", "School, public or private", "Restaurant, drive-through", or "Convenience store with gas sales"	Technical Review Committee (staff)
	Special Use Permit	Board of Adjustment (QJPH*)
	Residential Master Subdivision Plan (excludes exempt subdivisions)	Technical Review Committee (staff)

*Quasi-Judicial Public Hearing: The Board of Adjustment cannot discuss the project prior to the public hearing.

The following is a description of the proposal (also see attached map(s) and/or plan sheet(s)): The applicant is proposing to rezone the property to Planned Unit Development-Conditional Zoning (PUD-CZ)

to facilitate a multi-family development.

Estimated submittal date: Submitted on June 3, 2024

MEETING INFORMATION:				
Property Owner(s) name(s):	Wood Partners			
Applicant(s):	Wood Partners c/o Mark D. Frederick			
Contact information (email/phone):	markfrederick@parkerpoe.com; (919) 835-4023			
Meeting Address:	Virtual (Zoom) - See attached notice letter			
Date/Time of meeting**:	April 15, 2025			
Welcome: 5:30 PM Project F	Presentation: 5:30PM Question & Answer: 6:00PM			

**Meetings shall occur between 5:00 p.m.-9:00 p.m. on a Monday through Thursday (excluding Town recognized holidays). If you have questions about the general process for this application, please contact the Planning Department at 919-249-3426. You may also find information about the Apex Planning Department and on-going planning efforts at http://www.apexnc.org/180.



To:Neighboring Property Owners and TenantsFrom:Mark D. FrederickDate:April 1, 2025

Re: Notice of Second Virtual Neighborhood Meeting

You are invited to attend a second virtual neighborhood meeting on April 15, 2025 at 5:30 PM to discuss 24CZ11, the requested rezoning of three parcels of land located at 8108 Jenks Road (PIN 07226739), 1440 Wimberly Road (PIN 0722681610), and 1508 Wimberly Road (PIN 0722682430) (collectively, the "Property") from Rural Residential (RR) to Planned Unit Development-Conditional Zoning (PUD-CZ) to facilitate a multi-family development. If approved, the rezoning will change the 2045 Land Use Map ("LUM") designation from Office Employment/Commercial Services to High Density Residential.

During the meeting, the applicant will describe the nature of the rezoning request and proposed change to the LUM, provide updates since the first neighborhood meeting, and field any questions from the public. Enclosed are: (1) a vicinity map outlining the location of the parcels; (2) a zoning map of the subject area; (3) a LUM exhibit; (4) an updated preliminary concept plan; (5) a project contact information sheet; and (6) a common construction issues & who to call information sheet.

The meeting will be held virtually. You can participate online via Zoom or by telephone. To participate in the Zoom online meeting:

Visit:	<u>https://zoom.us./join</u>
Enter the following meeting ID:	875 5404 5321
Enter the following password:	804443
To participate by telephone:	
Dial:	1 929 205 6099
Enter the following meeting ID:	875 5404 5321
Enter the Participant ID:	#
Enter the Meeting password:	804443

If you have any questions about this rezoning, please contact me at (919) 835-4023 or via email at markfrederick@parkerpoe.com.

Sincerely,

Mark D. Frederick



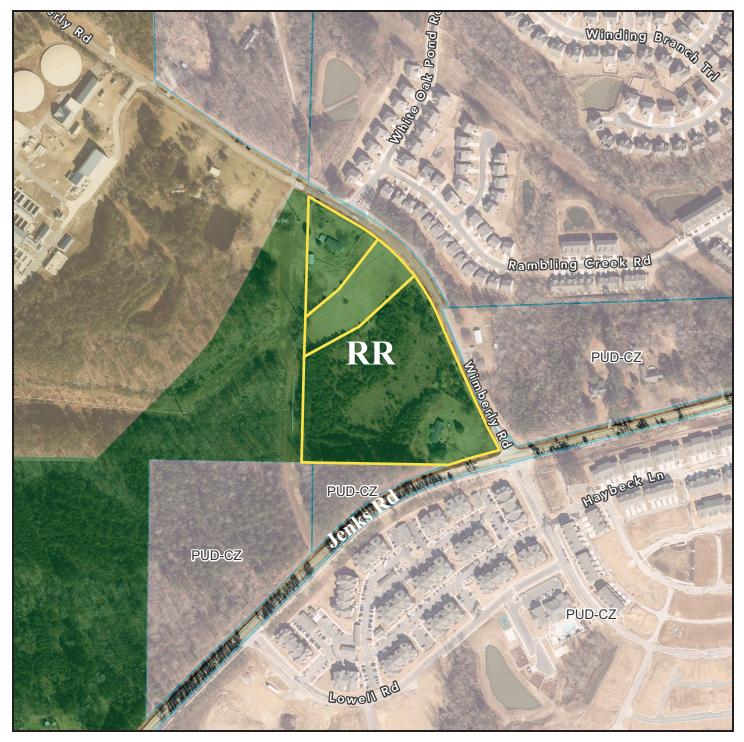
8108 Jenks Road; & 1440/1508 Wimberly Road

N 0 50 400 800 1 inch equals 400 feet

Vicinity Map

Disclaimer

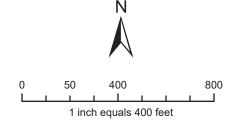
iMaps makes every effort to produce and publish the most current and accurate information possible. However, the maps are produced for information purposes, and are **NOT** surveys. No warranties, expressed or implied ,are provided for the data therein, its use,or its interpretation.



8108 Jenks Road; & 1440/1508 Wimberly Road

Zoning Map

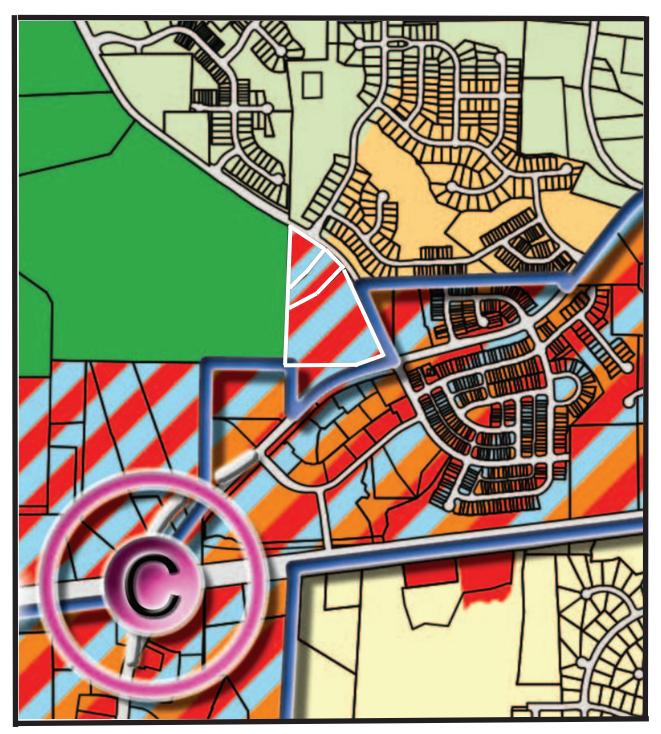
Current Zoning: RR



Disclaimer

iMaps makes every effort to produce and publish the most current and accurate information possible. However, the maps are produced for information purposes, and are **NOT** surveys. No warranties, expressed or implied , are provided for the data therein, its use, or its interpretation.

2045 LAND USE MAP EXHIBIT

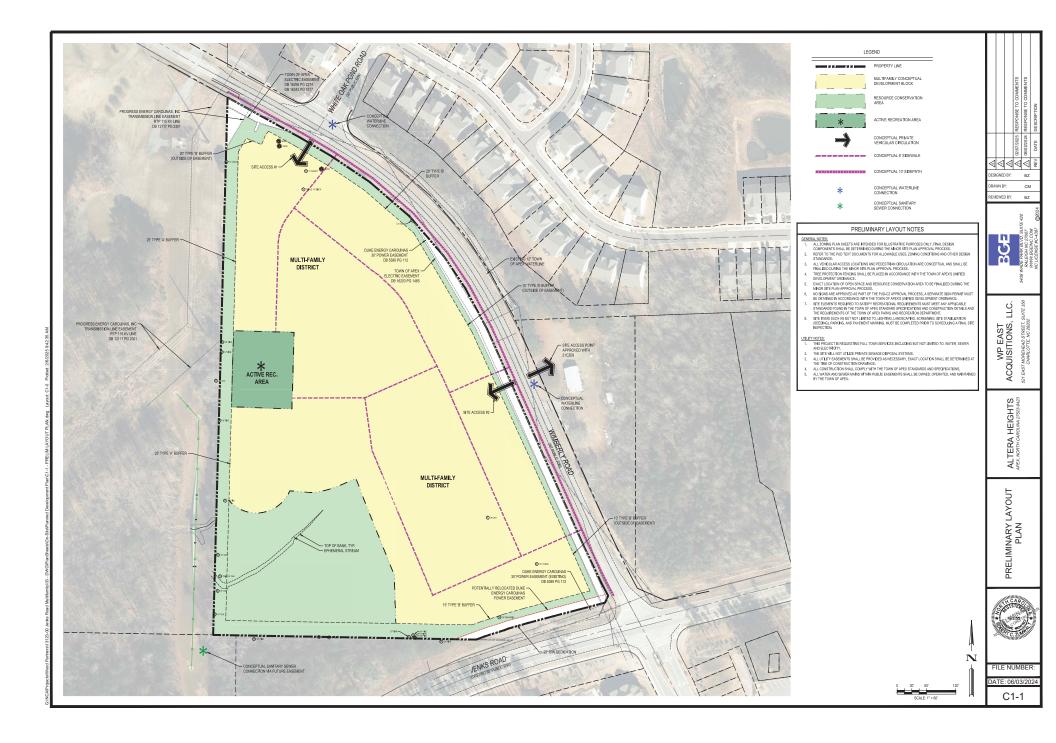


8108 Jenks Road; & 1440/1508 Wimberly Road



<u>Current LUM Designation</u>: Office Employment/ Commercial Services

Proposed LUM Designation: High Density Residential



PROJECT CONTACT INFORMATION

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Development Contacts:							
Project Name: Altera Jenks Road	Zoning: Rural Residential (RR)						
Location: See attached Exhibit A							
Property PIN(s): See attached Exhibit A Acrea	ge/Square Feet: 13.56 acres						
Property Owner: See attached Exhibit A							
Address:							
City:	State: Zip:						
Phone: Email:							
Developer: Wood Partners c/o Mark D. Frederic							
Address: 301 Fayetteville Street, Suite1400							
City: Raleigh State	e: NC zip: 27601						
Phone: (919) 835-4023 Fax: n/a	Email: markfrederick@parkerpoe.com						
Engineer: BGE, Inc. c/o Bob Zumwalt							
Address: 5438 Wade Park Blvd, Suite 420							
_{City:} Raleigh	State: NC Zip: 27607						
Phone: (919) 475-7314 Fax: n/a	Email: bzumwalt@bgeinc.com						
Builder (if known): Wood Partners c/o Mark D. Frederick							
Address: 301 Fayetteville Street, Suite1400							
City: Raleigh	State: NC Zip: 27601						
Phone: (919) 835-4023 Fax: n/a	Email: markfrederick@parkerpoe.com						

Please note that Town staff will not have complete information about a proposed development until the application is submitted for review. If you have a question about Town development standards and how they relate to the proposed development, please contact the appropriate staff person listed below.

Town of Apex Department Contacts	
Planning Department Main Number (Provide development name or location to be routed to correct planner)	(919) 249-3426
Parks, Recreation & Cultural Resources Department Angela Reincke, Parks Planning Project Manager	(919) 372-7468
Public Works - Transportation Russell Dalton, Traffic Engineering Manager	(919) 249-3358
Water Resources Department Jessica Bolin, Environmental Engineering Manager (Stormwater, Sedimentation & Erosion Control) Matt Echols, Utility Engineering Manager (Water & Sewer)	(919) 249-3537 (919) 372-7505
Electric Utilities Division Rodney Smith, Electric Technical Services Manager	(919) 249-3342

<u>Exhibit A</u> Ownership Addendum Altera Jenks Road Rezoning

PIN 0722673959

Address: 8108 Jenks Road Acreage: 9.66 acres Owner: Terry Cichocki Deed Book/Page: 16193/229 Owner Address: 8108 Jenks Road, Apex, NC 27523

PIN 0722682430

Address: 1508 Wimberly Road Acreage: 2.07 acres Owner: Danny Ottaway and Joan Ottaway Deed Book/Page: 13368/821 Owner Address: 10401 Chapel Hill Road, Morrisville, NC 27560

PIN 0722681610

Address: 1440 Wimberly Road Acreage: 1.83 acres Owner: Terry Poole Deed Book/Page: 12394/1101 Owner Address: 1440 Wimberly Road, Apex, NC 27523

COMMON CONSTRUCTION ISSUES & WHO TO CALL

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Noise & Hours of Construction:	Non-Emergency Police	919-362-8661
Noise from tree removal, grading,	excavating, paving, and building st	ructures is a routine part of the
construction process. The Town gene	rally limits construction hours from 7	7:00 a.m. to 8:30 p.m. so that there
are quiet times even during the co	-	-
allowed with special permission from	•	
night, often to avoid traffic issues. Ir		
Friday from 8:00 a.m. to 5:00 p.m. Re		
Non-Emergency Police phone numbe	•	
Construction Traffic:	James Misciagno	919-372-7470
Construction truck traffic will be hea		
removal of trees from site, loads of di	,	
and wood brought to the site, asph		
construction entrance that is gravele		
does get into the road, the Town can	· · · ·	
Road Damage & Traffic Control:	Water Resources – Infrastructu	
There can be issues with roadway of		-
inadequate lanes/signing/striping, poor		
be reported to Water Resources – Infra	structure Inspections at 919-249-342	7. The Town will get NCDOT involved
if needed.		
Parking Violations:	Non-Emergency Police	919-362-8661
Unless a neighbor gives permission, th		
property. Note that parking in the right		
driveways so as not to block sight triar		ints should be reported to the Non-
Emergency Police phone number at 91	9-362-8661.	
Dirt in the Road:	James Misciagno	919-372-7470
Sediment (dirt) and mud gets into the	-	
should be reported to James Misciagno		
Dirt on Properties or in Streams:	James Misciagno	919-372-7470
	Danny Smith	<u>Danny.Smith@ncdenr.gov</u>
Sediment (dirt) can leave the site and ge		
transported off-site by rain events. Th	-	-
that he can coordinate the appropriat		
should also be reported to Danny Smith		
Dust:	James Misciagno	919-372-7470
During dry weather dust often becon		
incidents should be reported to James		he can coordinate the use of water
trucks onsite with the grading contract	or to help control the dust.	
Trash:	James Misciagno	919-372-7470
Excessive garbage and construction deb	oris can blow around on a site or even o	off of the site. These incidents should
be reported to James Misciagno at 91	9-372-7470. He will coordinate the cl	eanup and trash collection with the
developer/home builder.		
Temporary Sediment Basins:	James Misciagno	919-372-7470
Temporary sediment basins during con	struction (prior to the conversion to t	he final stormwater pond) are often
quite unattractive. Concerns should be	reported to James Misciagno at 919-	-372-7470 so that he can coordinate
the cleaning and/or mowing of the slop	es and bottom of the pond with the d	leveloper.
Stormwater Control Measures:	Jessica Bolin	919-249-3537
Post-construction concerns related to	Stormwater Control Measures (typ	ically a stormwater pond) such as
conversion and long-term maintenance		
Electric Utility Installation:	Rodney Smith	919-249-3342
Concerns with electric utility installati	-	ectric Utilities Department. Contact
Rodney Smith at 919-249-3342.		-
•		

NEIGHBORHOOD MEETING SIGN-IN SHEET

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Meeting Address:	
Date of meeting:	Time of meeting:
Property Owner(s) name(s):	
Applicant(s):	

Please <u>print</u> your name below, state your address and/or affiliation with a neighborhood group, and provide your phone number and email address. Providing your name below does not represent support or opposition to the project; it is for documentation purposes only. For virtual meetings, applicants must include all known participants and request the information below.

	NAME/ORGANIZATION	ADDRESS	PHONE #	EMAIL	SEND PLANS & UPDATES
1.	Lauren B	Not provided	Not provided	lain	yes
2.		·			-
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					

Use additional sheets, if necessary.

SUMMARY OF DISCUSSION FROM THE NEIGHBORHOOD MEETING

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

Property Owner(s) name(s): See atta	ched	
Applicant(s): Wood Partners c/o I	Mark Frederick	_
Contact information (email/phone): n	narkfrederick@parkerpoe.com / 919-835-4023	
Meeting Address: Virtual (Zoom) -		-
Date of meeting: April 15, 2025	Time of meeting: 5:30 PM	-

Please summarize the questions/comments and your responses from the Neighborhood Meeting or emails/phone calls received in the spaces below (attach additional sheets, if necessary). Please state if/how the project has been modified in response to any concerns. The response should not be "Noted" or "No Response". There has to be documentation of what consideration the neighbor's concern was given and justification for why no change was deemed warranted.

Question/Concern #1: See attached.

Applicant's Response:

Question/Concern #2:

Applicant's Response:

Question/Concern #3:

Applicant's Response:

Question/Concern #4:

Applicant's Response:

Summary of Neighborhood Meeting April 15, 2025 Altera Heights PUD

- I. WELCOME
 - a. Introduction of development team
 - i. Mark Frederick w/ Parker Poe
 - ii. Caitlin Shelby and Emmitt Visconti w/ Wood Partners
 - iii. Bob Zumwalt and Kevin Dean w/ Kimley Horn, civil engineer and transportation engineer
 - b. Purpose of the rezoning is to allow an attainable housing project with middle market rents.
 - c. Explanation of process. This is a neighborhood meeting for a rezoning request called Altera Heights PUD. We filed this rezoning request in June last year. Some of you may remember that we held a pre-filing neighborhood meeting in May last year. Since that initial neighborhood meeting, we filed our application and have been in staff review. Tonight we will provide some updates to the case and explain the upcoming public meetings.
 - d. We have a brief presentation for you tonight and then we will open up the floor for questions. I believe you can enter your questions in the chat function, which you can at any time and we will get them after the presentation. We can also unmute folks to ask their questions.

II. PRESENTATION

- a. <u>Site Overview</u> location, existing uses adjacent, and surrounding development in progress.
 - i. 13.55 acres at the corner of Jenks and Wimberly Roads.
 - ii. Cary-Apex water plant adjacent to the west.
 - iii. Town owned property adjacent to the south. Town plans to use this property for utilities.
 - iv. Mix of housing types in the area including apartments, townhomes, and single-family homes
- b. <u>Current Zoning</u> Rural Residential
- c. 2045 Land Use Map (LUM) Designation
 - i. The LUM is the primary policy document the Town uses to evaluate rezoning request.
 - ii. This property is designated office/commercial services.
 - iii. Office market is in poor shape, so unlikely for office to be developed here
 - iv. Other developers have looked at doing commercial here but commercial uses are hindered by the lack of frontage and access on Jenks Road
- d. PUD Plan
 - i. As part of our PUD rezoning, we have a concept plan that shows approximate locations of proposed uses, buffers, conceptual access locations, etc.
 - ii. Project includes a maximum of 300 apartment units across several buildings with a maximum height of 4 stories
 - iii. Yellow area is the buildable area, so where the buildings and parking will be located.
 - iv. Dark green area is the location of the active area, which will be the clubhouse and pool
 - v. Light green area is resource conservation area

- vi. One update we have recently added to the case is the area along Wimberly Road across from the homes in the Preserve at White Oak Creek will be limited to 3 story buildings as compared to the 4 stories allowed on the rest of the site. The intent here is to create a more compatible transition from this project to the homes across the street.
- vii. The project will also include the standard transportation improvements along the property's frontage, including a 10 ft side path.
- viii. Conceptual access locations are also shown on the plan, but will be finalized at Master Subdivision Plan.
- e. <u>Rezoning Process and Timeline</u>
 - i. We have gone through several months of staff review of the application and the expectation is that this case will have public hearings in May.
 - ii. This includes a public hearing with the Planning Board on May 12th, at which the Board will review the case and provide a recommendation to approve or deny based on the case's consistency with town plans.
 - Next, Town Council will hold a public hearing and make the final decision on the rezoning. We are expecting this case to be heard at the May 27th meeting.
- III. QUESTION AND ANSWER
 - a. Q: Have studies been done to understand if more residential development is needed in this area?
 - i. A: Yes, Wood Partners looks at occupancy rates in the area to understand whether there is demand for additional residential development before moving forward with projects.
 - b. Q: Will this project include commitments to affordable housing and will those commitments be enforceable?
 - i. A: Yes, this case includes a zoning condition that requires a certain percentage of the residential units to be affordable to households earning a certain percentage of the area median income. The zoning condition will become a legally binding requirement if this rezoning is approved.
 - c. Q: Will a transition or buffer be provided between this project and the adjacent single family homes?
 - i. A: Yes, a landscaped buffer along Wimberly Road is proposed. In addition, building height is limited to 3 stories along Wimberly Road in order to provide a gradual transition from the single family homes to the 4 story buildings on the rest of this site.
 - d. Q: Will there be preserved areas on the site and are there any requirements for landscaping on the property?
 - i. A: Yes, a certain percentage of the property will be dedicated as resource conservation area. For this property, it is the area along the stream in the southwest portion of the site. As for landscaping, zoning conditions require a minimum of 70% of plants to be native species, and no invasive species are permitted.
 - e. Q: Does this project have a governing document with all of the development standards?
 - i. A: Yes. A PUD rezoning includes a narrative document with development standards.

APEX NC 27523-6803

APEX NC 27523-6803 APEX NC 27523-8507 APEX NC 27523-7806 PO BOX 8005

APEX NC 27523-7806 APEX NC 27523-7806

APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-6260 APEX NC 27523-6803 APEX NC 27523-8603 APEX NC 27523-7806 7 CORPORATE PLAZA DR APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-7806

APEX NC 27523-6260 APEX NC 27523-8507

APEX NC 27523-7806 APEX NC 27523-7806

APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-7845 APEX NC 27523-7845

APEX NC 27523 APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523 APEX NC 27523 APEX NC 27523

APEX NC 27523 APEX NC 27523

PO BOX 8005 APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-4923 APEX NC 27523-4100 WASHINGTON DC 20004-2525 APEX NC 27523 BELMONT CA 94002-1512 APEX NC 27523-7806 APEX NC 27523-7806 APEX NC 27523-7806

CARY NC 27513-8636 APEX NC 27502-0250 APEX NC 27502-0250 CARY NC 27513-8636 RALEIGH NC 27605-7529 APEX NC 27523-7606 APEX NC 27523-6803 APEX NC 27523 erstone WAY APEX NC 27523 APEX NC 27523 erstone WAY APEX NC 27523 erstone WAY erstone WAY

CARY NC 27512-8005

NEWPORT BEACH CA 92660-7904

OWNER	MAILING ADDRESS
AKOZER, PERI ELA AKOZER, EREN	1615 WIMBERLY RD
ALBERT, DAVID MILTON-ALBERT, VASANTHI	719 WHITE OAK POND RD
ARORA, VISHIT THAREJA, MEDHA	2609 RAMBLING CREEK RD
CARY TOWN OF APEX TOWN OF	REAL ESTATE DEPT TOWN OF CARY
CHEN, TSUNG PING TSAI, CHIEH JU	2638 RAMBLING CREEK RD
CHIGURUPATI, POOJA ALURI, VENKAT SUMAN	2617 RAMBLING CREEK RD
CICHOCKI, TERRY	8108 JENKS RD
COLUMBIA INVESTMENTS LLC	PO BOX 1897
CRP/BI JENKS RD APEX OWNER LLC	1001 PENNSYLVANIA AVE NW STE 220
DJ 1300 HOLDINGS LLC	1300 WIMBERLY RD
DRAGUN, BRIAN TRUSTEE DRAGUN, MARCI TRUSTEE	2608 PRINDLE RD
DURAISAMY, SARAVANAKUMAR CHANDRAN, DEEPIKA	772 MIRKWOOD AVE
GUHA, SUBHAJIT DASGUPTA, NIKITA	2642 RAMBLING CREEK RD
JADHAV, RAVIPRAKASH JADHAV, ANITA	2641 RAMBLING CREEK RD
JOHNEY, ANUP ANUP, ALLIJA	2624 RAMBLING CREEK RD
KASIVISWANATHAN, MUTHURAMAN MUTHURAMAN TRUSTEE LAKSHMANAN, YEGAMMAI TRUSTEE	2629 RAMBLING CREEK RD
KASULA, NIKHIL KALASHIKA, KEERTHANA	2601 RAMBLING CREEK RD
KASYAP, GOVIND DABIRU DABIRU, VISALI	776 MIRKWOOD AVE
LIU, YONG JUAN	1611 WIMBERLY RD
LOFARO, WINTER NACOLE	728 WHITE OAK POND RD
NELAPATI, MADHUSUDHANARAO CHUNCHU, ASWINI	2605 RAMBLING CREEK RD
OLEN VILLAGES AT WESTFORD CORP	OLEN PROPERTIES CORP
PABBAREDDY, UPENDRASAI BEERAM, SRI KAIVALYA	2633 RAMBLING CREEK RD
PADINHARECHALIL KOYILERIAN, RANJEETH KUMAR SASIDHARAN, NIMMY	2645 RAMBLING CREEK RD
PAMIDI, ABHIRAM GUDUPUDI, RAMYA	780 MIRKWOOD AVE
PATEL, VRAJESH RAMESHBHAI PATEL, MEGHA VRAJESH	724 WHITE OAK POND RD
PATRA, PAMELA PENMETSA, DILEP KUMAR TRUSTEE NADIMPALLI, ARUNA TRUSTEE DOOLE TEDRY D	2637 RAMBLING CREEK RD 2621 RAMBLING CREEK RD
POOLE, TERRY D	1440 WIMBERLY RD
POONIA, KAMALKUMAR KADIAN, MEENAKSHI	2625 RAMBLING CREEK RD
SAHA, SUKANYA GHOSH, SHATADAL	1617 WIMBERLY RD
SATHYAMURTHY, JAYAPRAKASH SHANKAR, SUMA	2649 RAMBLING CREEK RD
SHELL, JOHN SCOTT SHELL, SUSAN FINK	720 WHITE OAK POND RD
SURYAPRAKASAM, HEMACHANDRAN TRUONG-HEMACHANDRAN, NGAN	736 MEADOWSIDE CT
SUTRADHAR, DIPAN SUTRADHAR, KANCHI	2613 RAMBLING CREEK RD
THE PRESERVE AT WHITE OAK CREEK HOMEOWNERS ASSOCIA	15501 WESTON PKWY STE 100
TOWN OF APEX	PO BOX 250
TOWNES AT WESTFORD OWNERS ASSOCIATION INC	15501 WESTON PKWY STE 100
WELLFIELD DEVELOPMENT LLC	4441 SIX FORKS RD STE 106-117
XU, XIN LI, ZHE	2618 RAMBLING CREEK RD
ZHANG, KEVIN HUA	1619 WIMBERLY RD
Current Tenant	13101 Fletcherstone WAY
Current Tenant	13102 Fletcherstone WAY
Current Tenant	13103 Fletcherstone WAY
Current Tenant	13104 Fletcherstone WAY
Current Tenant	13105 Fletcherstone WAY
Current Tenant	13106 Fletcherstone WAY
Current Tenant	13107 Fletcherstone WAY
Current Tenant	13108 Fletcherstone WAY
Current Tenant	13201 Fletcherstone WAY
Current Tenant	13202 Fletcherstone WAY
Current Tenant	13203 Fletcherstone WAY
Current Tenant	13204 Fletcherstone WAY
Current Tenant	13205 Fletcherstone WAY
Current Tenant	13206 Fletcherstone WAY
Current Tenant	13207 Fletcherstone WAY
Current Tenant	13208 Fletcherstone WAY
Current Tenant	13301 Fletcherstone WAY
Current Tenant	13302 Fletcherstone WAY
Current Tenant	13303 Fletcherstone WAY
Current Tenant	13304 Fletcherstone WAY
Current Tenant	13305 Fletcherstone WAY
Current Tenant	13306 Fletcherstone WAY
Current Tenant	13307 Fletcherstone WAY
Current Tenant	13308 Fletcherstone WAY
Current Tenant	15101 Fletcherstone WAY
Current Tenant	15102 Fletcherstone WAY
Current Tenant	15103 Fletcherstone WAY
Current Tenant	15104 Fletcherstone WAY
Current Tenant	15201 Fletcherstone WAY
Current Tenant	15202 Fletcherstone WAY
Current Tenant	15203 Fletcherstone WAY
Current Tenant	15204 Fletcherstone WAY
Current Tenant	15301 Fletcherstone WAY
Current Tenant	15302 Fletcherstone WAY
Current Tenant	15303 Fletcherstone WAY
Current Tenant	15304 Fletcherstone WAY
Current Tenant	16101 Fletcherstone WAY
Current Tenant Current Tenant	16102 Fletcherstone WAY 16103 Fletcherstone WAY 16104 Fletcherstone WAY
Current renant	16104 Fletcherstone WAY
Current Tenant	16201 Fletcherstone WAY
Current Tenant	16202 Fletcherstone WAY
Current Tenant	16202 Fletcherstone WAY
Current Tenant	16203 Fletcherstone WAY
Current Tenant	16301 Fletcherstone WAY 16302 Fletcherstone WAY
Current Tenant	16303 Fletcherstone WAY
Current Tenant	16304 Fletcherstone WAY
Current Tenant	18101 Fletcherstone WAY
Current Tenant	18102 Fletcherstone WAY
Current Tenant	18103 Fletcherstone WAY
Current Tenant	18104 Fletcherstone WAY
Current Tenant	18105 Fletcherstone WAY
Current Tenant	18106 Fletcherstone WAY
Current Tenant	18107 Fletcherstone WAY
Current Tenant	18108 Fletcherstone WAY
Current Tenant Current Tenant	18201 Fletcherstone WAY 18202 Fletcherstone WAY 18203 Fletcherstone WAY
Current Tenant	18203 Fletcherstone WAY
Current Tenant	18204 Fletcherstone WAY
Current Tenant	18205 Fletcherstone WAY
Current Tenant Current Tenant	18205 Fletcherstone WAY 18206 Fletcherstone WAY 18207 Fletcherstone WAY
Current Tenant Current Tenant	18207 Fletcherstone WAY 18208 Fletcherstone WAY 18301 Fletcherstone WAY
Current Tenant	18302 Fletcherstone WAY
Current Tenant	18303 Fletcherstone WAY
Current Tenant	18304 Fletcherstone WAY
Current Tenant	18305 Fletcherstone WAY
Current Tenant	18306 Fletcherstone WAY
Current Tenant	18307 Fletcherstone WAY
Current Tenant	18308 Fletcherstone WAY
Current Tenant	20101 Fletcherstone WAY
Current Tenant	20102 Fletcherstone WAY
Current Tenant	20103 Fletcherstone WAY
Current Tenant	20104 Fletcherstone WAY
Current Tenant	20105 Fletcherstone WAY
Current Tenant	20106 Fletcherstone WAY
Current Tenant	20107 Fletcherstone WAY
Current Tenant	20108 Fletcherstone WAY
Current Tenant	20201 Fletcherstone WAY
Current Tenant	20202 Fletcherstone WAY
Current Tenant	20203 Fletcherstone WAY
Current Tenant	20204 Fletcherstone WAY
Current Tenant	20205 Fletcherstone WAY
Current Tenant	20206 Fletcherstone WAY
Current Tenant	20207 Fletcherstone WAY
Current Tenant	20208 Fletcherstone WAY
Current Tenant	20301 Fletcherstone WAY
Current Tenant	20302 Fletcherstone WAY
Current Fenant	20302 Fletcherstone WAY
Current Tenant	20303 Fletcherstone WAY
Current Tenant	20304 Fletcherstone WAY
Current Tenant Current Tenant	20304 Fletcherstone WAY 20305 Fletcherstone WAY 20306 Fletcherstone WAY
Current Tenant	20307 Fletcherstone WAY
Current Tenant	20308 Fletcherstone WAY
Current Tenant	1101 Haybeck LN
Current Tenant	1102 Haybeck LN
Current Tenant	1102 Haybeck LN
Current Tenant	1104 Haybeck LN
	· ·

11101 Haybeck LN	APEX NC 27523 APEX NC 27523
11102 Haybeck LN 11103 Haybeck LN	APEX NC 27523
11104 Haybeck LN 11105 Haybeck LN	APEX NC 27523 APEX NC 27523
11106 Haybeck LN 11107 Haybeck LN	APEX NC 27523 APEX NC 27523
11108 Haybeck LN 11201 Haybeck LN	APEX NC 27523 APEX NC 27523
11202 Haybeck LN 11203 Haybeck LN	APEX NC 27523 APEX NC 27523
11204 Haybeck LN 11205 Haybeck LN	APEX NC 27523 APEX NC 27523
11206 Haybeck LN 11207 Haybeck LN	APEX NC 27523 APEX NC 27523
11208 Haybeck LN 11301 Haybeck LN	APEX NC 27523 APEX NC 27523
11302 Haybeck LN 11303 Haybeck LN	APEX NC 27523 APEX NC 27523
11304 Haybeck LN 11305 Haybeck LN	APEX NC 27523 APEX NC 27523
11306 Haybeck LN 11307 Haybeck LN	APEX NC 27523 APEX NC 27523
11308 Haybeck LN 1201 Haybeck LN	APEX NC 27523 APEX NC 27523
1202 Haybeck LN	APEX NC 27523 APEX NC 27523
1203 Haybeck LN 1204 Haybeck LN 1301 Haybeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
1302 Haybeck LN	APEX NC 27523
1303 Haybeck LN 1304 Haybeck LN	APEX NC 27523 APEX NC 27523
2101 Haybeck LN 2102 Haybeck LN	APEX NC 27523 APEX NC 27523
2103 Haybeck LN 2104 Haybeck LN	APEX NC 27523 APEX NC 27523
2105 Haybeck LN 2106 Haybeck LN	APEX NC 27523 APEX NC 27523
2107 Haybeck LN 2108 Haybeck LN	APEX NC 27523 APEX NC 27523
2201 Haybeck LN 2202 Haybeck LN	APEX NC 27523 APEX NC 27523
2203 Haybeck LN 2204 Haybeck LN	APEX NC 27523 APEX NC 27523
2205 Haybeck LN 2206 Haybeck LN	APEX NC 27523 APEX NC 27523
2207 Haybeck LN 2208 Haybeck LN	APEX NC 27523 APEX NC 27523
2301 Haybeck LN 2302 Haybeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
2303 Haybeck LN 2304 Haybeck LN	APEX NC 27523 APEX NC 27523
2305 Haybeck LN 2306 Haybeck LN 2306 Haybeck LN	APEX NC 27523 APEX NC 27523
2307 Haybeck LN 2308 Haybeck LN	APEX NC 27523 APEX NC 27523
3101 Haybeck LN	APEX NC 27523
3102 Haybeck LN 3103 Haybeck LN	APEX NC 27523 APEX NC 27523
3104 Haybeck LN 3105 Haybeck LN	APEX NC 27523 APEX NC 27523
3106 Haybeck LN 3107 Haybeck LN	APEX NC 27523 APEX NC 27523
3108 Haybeck LN 3201 Haybeck LN	APEX NC 27523 APEX NC 27523
3202 Haybeck LN 3203 Haybeck LN	APEX NC 27523 APEX NC 27523
3204 Haybeck LN 3205 Haybeck LN	APEX NC 27523 APEX NC 27523
3206 Haybeck LN 3207 Haybeck LN	APEX NC 27523 APEX NC 27523
3208 Haybeck LN 3301 Haybeck LN	APEX NC 27523 APEX NC 27523
3302 Haybeck LN 3303 Haybeck LN	APEX NC 27523 APEX NC 27523
3304 Haybeck LN 3305 Haybeck LN	APEX NC 27523 APEX NC 27523
3306 Haybeck LN 3307 Haybeck LN	APEX NC 27523 APEX NC 27523
3308 Haybeck LN 4001 Haybeck LN	APEX NC 27523 APEX NC 27523
4002 Haybeck LN 4005 Haybeck LN	APEX NC 27523 APEX NC 27523
4006 Haybeck LN 4101 Haybeck LN	APEX NC 27523 APEX NC 27523
4102 Haybeck LN 4103 Haybeck LN	APEX NC 27523 APEX NC 27523
4104 Haybeck LN 4105 Haybeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
4106 Haybeck LN 4107 Haybeck LN 4107 Haybeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
4108 Haybeck LN	APEX NC 27523
4201 Haybeck LN 4202 Haybeck LN	APEX NC 27523 APEX NC 27523
4203 Haybeck LN 4204 Haybeck LN	APEX NC 27523 APEX NC 27523
4205 Haybeck LN 4206 Haybeck LN	APEX NC 27523 APEX NC 27523
4207 Haybeck LN 4208 Haybeck LN	APEX NC 27523 APEX NC 27523
4301 Haybeck LN 4302 Haybeck LN	APEX NC 27523 APEX NC 27523
4303 Haybeck LN 4304 Haybeck LN	APEX NC 27523 APEX NC 27523
4305 Haybeck LN 4306 Haybeck LN	APEX NC 27523 APEX NC 27523
4307 Haybeck LN 4308 Haybeck LN	APEX NC 27523 APEX NC 27523
5101 Haybeck LN 5102 Haybeck LN	APEX NC 27523 APEX NC 27523
5103 Haybeck LN 5104 Haybeck LN	APEX NC 27523 APEX NC 27523
5105 Haybeck LN 5106 Haybeck LN	APEX NC 27523 APEX NC 27523
5107 Haybeck LN 5108 Haybeck LN	APEX NC 27523 APEX NC 27523
5201 Haybeck LN 5202 Haybeck LN	APEX NC 27523 APEX NC 27523
5203 Haybeck LN 5204 Haybeck LN	APEX NC 27523 APEX NC 27523
5205 Haybeck LN 5206 Haybeck LN	APEX NC 27523 APEX NC 27523
5207 Haybeck LN 5208 Haybeck LN	APEX NC 27523 APEX NC 27523
5301 Haybeck LN 5302 Haybeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
5303 Haybeck LN 5304 Haybeck LN	APEX NC 27523 APEX NC 27523
5305 Haybeck LN 5306 Haybeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
5307 Haybeck LN 5308 Haybeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
6001 Haybeck LN 6002 Havbeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
6002 Haybeck LN 6005 Haybeck LN 6006 Haybeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
6101 Haybeck LN	APEX NC 27523
6102 Haybeck LN 6103 Haybeck LN 6104 Haybeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
6104 Haybeck LN 6105 Haybeck LN 6106 Haybeck LN	APEX NC 27523 APEX NC 27523 APEX NC 27523
UTO HEADER TH	AFEA NU 2/523

Current Tenant Current Tenant

2

APEX APEX APEX	
APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523 NC 27523
APEX	NC 27523 NC 27523 NC 27523 NC 27523
APEX	NC 27523
APEX APEX APEX	NC 27523 NC 27523 NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX APEX	NC 27523 NC 27523
APEX	NC 27523 NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
	NC 27523
APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX ADEV	NC 27523
APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX ADEV	NC 27523 NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523 NC 27523 NC 27523 NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523
APEX	NC 27523 NC 27523 NC 27523
APEX	NC 27523
APEX	
APEX APEX	
APEX APEX APEX	
APEX APEX APEX APEX	
APEX APEX APEX APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX APEX APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX APEX APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX APEX APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX APEX APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX APEX APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX APEX APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX APEX APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX APEX APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX APEX APEX	NC 27523 NC 27523 NC 27523 NC 27523 NC 27523
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC 27523
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC 27523
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC 27523
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC 27523
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
4 PEX 4	NC 27523 NC
4 PEX 4	NC 27523 NC
APEXX APEXX	NC 27523 NC
APEXX APEXX	NC 27523 NC
APEXXX APEXXX	NC 27523 NC
APEXXX APEXXX	NC 27523 NC
APEXXX APEXXX	NC 27523 NC
APEXXX APEXXX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
4-PEX 4-PEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEXXAPPEXXA	NC 27523 NC
APEXXAPPEXXA	NC 27523 NC
APEXXAPPEXXA	NC 27523 NC
4-PEX 4-	NC 27523 NC
4425 4425 4425 4425 4425 4425 4425 4425	NC 27523 NC
APEXX APEXX	NC 27523 NC
APEXX APEXX	NC 27523 NC
APEXX APEXX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC
APEX APEX APEX APEX APEX APEX APEX APEX	NC 27523 NC

Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant Current Tenant Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant
Current Tenant Current Tenant
Current Tenant
Current Tenant
Current Tenant

6107 Havbeck LN	
6108 Haybeck LN	
6201 Haybeck LN	
6202 Haybeck LN	
6203 Haybeck LN	
6204 Haybeck LN	
6205 Haybeck LN	
6206 Haybeck LN	
6207 Haybeck LN	
6208 Havbeck LN	
6301 Haybeck LN	
6302 Haybeck LN	
6303 Haybeck LN	
6304 Haybeck LN	
6305 Haybeck LN	
6306 Haybeck LN	
6307 Haybeck LN	
6308 Haybeck LN	
7101 Haybeck LN	
7102 Haybeck LN	
7103 Haybeck LN	
7104 Haybeck LN	
7105 Haybeck LN	
7106 Haybeck LN	
7107 Haybeck LN	
7108 Haybeck LN	
7201 Haybeck LN	
7202 Haybeck LN	
7203 Haybeck LN	
7204 Haybeck LN	
7205 Haybeck LN	
7206 Haybeck LN	
7207 Haybeck LN 7208 Haybeck LN	
7301 Haybeck LN	
7302 Haybeck LN	
7303 Havbeck LN	
7304 Haybeck LN	
7305 Havbeck LN	
7306 Haybeck LN	
7307 Haybeck LN	
7308 Haybeck LN	
9101 Haybeck LN	
9102 Haybeck LN	
9103 Haybeck LN	
9104 Haybeck LN	
9201 Haybeck LN	
9202 Haybeck LN	
9203 Haybeck LN	
9204 Haybeck LN	
9301 Haybeck LN	
9302 Haybeck LN	
9303 Haybeck LN	
9304 Haybeck LN	
1408 Wimberly RD	
1533 Wimberly RD	
1613 Wimberly RD	

APEX NC 27523 APEX NC 27534 APEX NC 27533 AP

3

AFFIDAVIT OF CONDUCTING A NEIGHBORHOOD MEETING, SIGN-IN SHEET AND ISSUES/RESPONSES SUBMITTAL

This document is a public record under the North Carolina Public Records Act and may be published on the Town's website or disclosed to third parties.

I, Mark Frederick , do hereby declare as follows:

Print Name

- 1. I have conducted a Neighborhood Meeting for the proposed Rezoning, Major Site Plan, Minor Site Plan, Residential Master Subdivision Plan, or Special Use Permit in accordance with UDO Sec. 2.2.7.B *Neighborhood Meeting*.
- 2. The meeting invitations were mailed to the Apex Planning Department, all property owners and tenants abutting and within 300 feet of the subject property and any neighborhood association that represents citizens in the notification area via first class mail a minimum of 14 days in advance of the Neighborhood Meeting.
- 3. The meeting was conducted at virtual via Zoom (location/address) on 4/15/25 (date) from 5:30 (start time) to 6:30 (end time).
- 4. I have included the mailing list, meeting invitation, sign-in sheet, issue/response summary, and zoning map/reduced plans with the application.
- 5. I have prepared these materials in good faith and to the best of my ability.

4/16/2

M. Inh

STATE OF NORTH CAROLINA COUNTY OF WAKE

Sworn and subscribed before me, Marc	Frederick	, a Notary Public for the above State and
County, on this the <u>(64</u> day of <u>Apri (</u>	, 20 <u>25</u>	



My Commission Expires: October 2 2028



ALTERA HEIGHTS

Planned Unit Development

Apex, North Carolina

Submittal Dates

First Submittal: June 3, 2024 Second Submittal: August 2, 2024 Third Submittal: February 7, 2024 Fourth Submittal: April 4, 2025 Fifth Submittal: April 23, 2025

Developer

Wood Partners 1414 Raleigh Road, Suite 429 Chapel Hill, NC 27517

Civil Engineer

BGE, Inc. 5438 Wade Park Blvd, Suite 420 Raleigh, NC 27607

Land Use Attorney

Matthew J. Carpenter Parker Poe Adams & Bernstein LLP 301 Fayetteville Street, Suite 1400 Raleigh, NC 27601

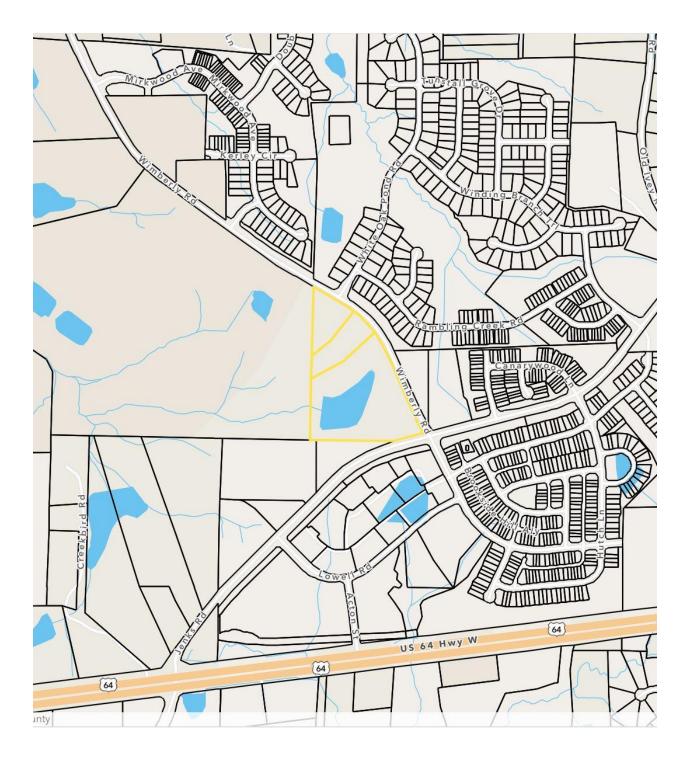




TABLE OF CONTENTS

VICINITY MAP	3
PROJECT DATA	4
PURPOSE STATEMENT	5
PERMITTED USES	8
AFFORDABLE HOUSING	9
DESIGN CONTROLS	10
ARCHITECTURAL STANDARDS	10
PARKING AND LOADING	11
SIGNAGE	11
NATURAL RESOURCES AND ENVIRONMENTAL DATA	11
STORMWATER MANAGEMENT	13
PARKS AND RECREATION	13
PUBLIC FACILITIES	13
PHASING	15
CONSISTENCY WITH LAND USE PLAN	15

VICINITY MAP



ALTERA HEIGHTS PLANNED UNIT DEVELOPMENT

PROJECT DATA

Name of Project:	Altera Heights
Property Owner:	See attached <u>Exhibit B</u>
Developer:	Wood Partners 1414 Raleigh Road, Suite 429 Chapel Hill, NC 27517
Prepared by:	Parker Poe Adams & Bernstein LLP 301 Fayetteville Street, Suite 1400 Raleigh, NC 27601
	BGE, Inc. 5438 Wade Park Blvd., Suite 420 Raleigh, NC 27607
Current Zoning:	Rural Residential (RR)
Proposed Zoning:	Planned Unit Development Conditional Zoning (PUD- CZ)
Current 2045 LUM Designations:	Office Employment/Commercial Services
Proposed 2045 LUM Designations:	High Density Residential
Site Address:	8108 Jenks Rd, 1508 Wimberly Rd, 1440 Wimberly Rd
Property Identification Number:	0722673959, 0722682430, 0722681610
Total Acreage:	13.55 acres
Area Designated as Mixed Use on LUM:	None
Area Proposed as Non-Residential:	None

PURPOSE STATEMENT

This document and the accompanying exhibits submitted herewith (collectively, the "PUD") are provided pursuant to the Town of Apex Unified Development Ordinance ("UDO") Planned Unit Development provisions. This PUD addresses the development of an approximately 13.55-acre site at the corner of Wimberly Road and Jenks Road. The property is in the Town's ETJ and primarily undeveloped with two existing single-family homes.

Altera Heights aims to offer upscale living at cost-effective rates to fill a gap in the housing market. The project will be an attainable housing community for middle income earners, those often overlooked by the multi-family housing market which consists primarily of government subsidized affordable projects on one end and luxury high rent apartment communities on the other. In addition, the community will provide 10% of the total units as AMI restricted affordable units to ensure affordability for different income bands. The community will be conveniently located near goods and services and future commercial development on US-64, offering people of all backgrounds the opportunity to live in and enjoy Apex.

The Town of Apex 2045 Land Use Map (the "LUM") designates the property as Office/Commercial Services. However, non-residential uses are infeasible on the property. The office market has not recovered from COVID-19; in first quarter 2024, the direct vacancy rate for office space in Raleigh-Durham increased to 15.6% and the suburban vacancy rate increased to 16.2%.¹ Seven of the ten largest vacancies were in suburban submarkets, mostly concentrated in the RTP/I-40 Corridor submarket which had the highest overall vacancy rate of 30.9%. Commercial uses on the site face challenges due to the lot configuration. Because of the configuration of the Town owned property to the south (PIN 0722671588), the property has minimal frontage on Jenks Road, the primary transportation corridor, and will only have driveway access to Wimberly Road. Additionally, non-residential development is drawn to US-64 where visibility is better and daily trips are higher.

Given these constraints, an attainable housing community is the highest and best use of the property. It will further Goal 1.2(d) of the Affordable Housing Incentive Zoning Policy and Procedures Manual, to create "mixed-income communities, with affordable housing units integrated within residential and mixed-use market rate developments." According to the Affordable Housing Plan, over the next decade, Apex is projected to add 1,900 jobs with incomes below \$75,000, which will further contribute to the Town's affordable housing need; jobs such as grocery cashiers, firefighters, and nurses.

¹ See Cushman & Wakefield Q1 2024 Raleigh Office Report. https://cw-gbl-gws-prod.azureedge.net/-/media/cw/marketbeat-pdfs/2024/q1/us-reports/office/raleigh-

CONSISTENCY WITH PLANNED UNIT DEVELOPMENT STANDARDS

(i) The uses proposed to be developed in the PD plan for PUD-CZ are those uses permitted in Sec. 4.2.2 Use Table

RESPONSE: The uses permitted within this PUD are permitted within this designation in the UDO Section 4.2.2 Use Table.

(ii) The uses proposed in the PD Plan for PUD-CZ can be entirely residential, entirely nonresidential, or a mix of residential and non-residential uses, provided a minimum percentage of non-residential land area is included in certain mixed-use areas as specified on the 2045 Land Use Map. The location of the uses proposed by the PUD-CZ must be shown in the PD Plan with a maximum density for each type of residential use and a maximum square footage for each type of non-residential use.

RESPONSE: Altera Heights is a multi-family development. None of the parcels in the PUD have three stripes on the LUM. Accordingly, this PUD is not required to designate 30% of the property as non-residential.

(iii) The dimensional standards in Sec. 5.1.3 Table of Intensity and Dimensional Standards, Planned Development Districts may be varied in the PD Plan for PUD-CZ. The PUD-CZ shall demonstrate compliance with all other dimensional standards of the UDO, North Carolina Building Code, and North Carolina Fire Code.

RESPONSE: This PUD specifies intensity and dimensional standards for the project. The proposed PUD is consistent with the UDO Planned Unit Development standards – to provide site specific, high-quality neighborhoods that preserve natural features and exhibit compatibility with, and connectivity to, surrounding land uses. Except as specifically stated in this PUD, the development will comply with all requirements of the UDO and will comply with all applicable requirements of the North Carolina Building Code and the North Carolina Fire Code.

(iv) The development proposed in the PD Plan for PUD-CZ encourages cluster and compact development to the greatest extent possible that is interrelated and linked by pedestrian ways, bikeways and other transportation systems. At a minimum, the PD Plan must show sidewalk improvements as required by the Advance Apex: The 2045 Transportation Plan and the Town of Apex Standard Specifications and Standard Details, and greenway improvements as required by the Town of Apex Parks, Recreation, Greenways, and Open Space Plan and the Advance Apex: The 2045 Transportation Plan. In addition, sidewalks shall be provided on both sides of all streets for single-family detached homes.

RESPONSE: The project will have 10-foot Side Paths along its frontage on Wimberly Road and Jenks Road as recommended by the Bicycle and Pedestrian System Plan Map. Internal sidewalks will connect to the Side Paths to improve pedestrian connectivity and safety.

(v) The design of development in the PD Plan for PUD-CZ results in land use patterns that promote and expand opportunities for walkability, connectivity, public transportation, and an efficient compact network of streets. Cul-de-sacs shall be avoided unless the design of the subdivision and the existing or proposed street system in the surrounding area indicate that a through street is not essential in the location of the proposed culde-sac, or where sensitive environmental areas such as streams, floodplains, and wetlands would be substantially disturbed by making road connections.

RESPONSE: The project does not propose any new public streets. Additionally, vehicular cross access connections are undesirable due to the use of adjacent properties. The adjacent property to the west is the Cary-Apex Water Plant. The adjacent property to the south is owned by the Town and will be used for utilities. The project will improve pedestrian connectivity by constructing Side Paths along its frontage on Wimberly Road and Jenks Road.

(vi) The development proposed in the PD Plan for PUD-CZ is compatible with the character of surrounding land uses and maintains and enhances the value of surrounding properties.

RESPONSE: The proposed development is compatible with the character of the existing and planned uses in the surrounding area. This area of Town includes a wide array of housing types including the Villages at Westford luxury apartments and Westford Townhomes to the south, the Alderwood single-family subdivision to the east, and the future Arden 55+ community to the west. The project will add an attainable rental housing type, with conditions to ensure a high quality product that complements existing neighborhoods in the area.

(vii) The development proposed in the PD Plan for PUD-CZ has architectural and design standards that are exceptional and provide higher quality than routine developments. All residential uses proposed in a PD Plan for PUD-CZ shall provide architectural elevations representative of the residential structures to be built to ensure the Standards of this Section are met.

RESPONSE: The development will feature high quality and thoughtful design. Architectural standards, design controls, and conceptual elevations are included in this PUD.

CONSISTENCY WITH CONDITIONAL ZONING STANDARDS

Altera Heights is consistent with the conditional zoning standards set forth in UDO Section 2.3.3.F.1-10. Please see the accompanying PUD-CZ Application for the statements of consistency addressing each standard.

PERMITTED USES

The Property may be used for the uses listed below. The permitted uses are subject to the limitations and regulations stated in the UDO and any additional limitations or regulations stated below. For convenience, some relevant sections of the UDO may be referenced; such references do not imply that other sections of the UDO do not apply. Homeowners Association covenants shall not restrict the construction of accessory dwelling units.

The following uses shall be permitted:

Residential

- Multi-family or apartment
- Condominium

Utilities

• Utility, minor

Recreational

- Greenway
- Park, Active
- Park, Passive
- Recreation Facility, private

AFFORDABLE HOUSING

A minimum of 10% of the total residential apartment units (as shown on the first site plan submittal) shall be designated as restricted low-income affordable housing rental units (the "Affordable Units") for a minimum affordability period of 15 years starting from the date of issuance of the first residential Certificate of Occupancy (the "Affordable Restriction Period").

- 1/2 of the Affordable Units shall be occupied by low-income households earning no more than 80% of the Raleigh, NC Metropolitan Statistical Area (MSA) Area Median Income, adjusted for family size, as most recently published by the U.S. Department of Housing and Urban Development (HUD)(the "AMI") and rented at maximum rent limits per bedroom count, no greater than the 80% AMI limits as stipulated by the most recently published NC Housing Finance Agency Low-Income Housing Tax Credit Multifamily Tax Subsidy Program income and rent limits for the Wake County Metropolitan Area (the "MTSP Rent Limits").
- 1/2 of the Affordable Units shall be occupied by low-income households earning no more than 100% AMI and rented at maximum rent limits as stipulated by the 100% AMI MTSP Rent Limits.
- If the Affordable Units calculation results in a fraction between 0.00 and 0.49, the number of Affordable Units shall be rounded down to the nearest whole number. If the Affordable Units calculation results in a fraction between 0.50 and 0.99, the number of Affordable Units shall be rounded up to the nearest whole number.
- Prior to issuance of the first residential Certificate of Occupancy, a restrictive covenant between the Town and property owner shall be executed and recorded in the Wake County Registry to memorialize the affordable housing terms and conditions.
- During the Affordable Restriction Period, the property owner shall be responsible for performing, or contracting for, all property management and administration duties to ensure compliance with this affordable housing condition and shall submit annual compliance reports to the Town verifying compliance.
- Following expiration of the Affordable Restriction Period, this affordable housing condition shall expire, and the property owner shall be relived of all obligations set forth in this affordable housing condition, and the Affordable Units may be freely marketed and leased at market-rate rents.

DESIGN CONTROLS

Multi-Family Design Controls

•	Acrea	ge:	13.55
•	Maxir	num number of multi-family apartment units:	300
•	Maxir	num Building Height:	60 ft./4 stories
•	Minin	num Building Setbacks	
	0	Front	10 ft.
	0	Rear	10 ft.
	0	Corner	10 ft.
	0	Minimum Building Separation	30 ft.
	0	From Buffer or RCA	10 ft.

LANDSCAPING, BUFFERING, AND SCREENING

Perimeter buffers shall be built and planted to the following lot width and planting standards:

Location:	Buffer Size & Type:
Along the southern property line	30 ft. Type B/15 ft. Type B*
Along the western property line	25 ft. Type A
Along Wimberly Road	20 ft. Type B**

*There is an existing Duke Energy Electric Easement (Deed Book 5389, Page 112)(the "Jenks Duke Easement") along the property's Jenks Road frontage. The Jenks Road right of way dedication and road widening set forth in the Transportation Improvements section of this PUD may require relocation of the Jenks Duke Easement north onto the property as shown on the Preliminary Layout Plan (the "Relocation"). If the Relocation occurs, the portion of the buffer adjacent to the easement shall be reduced to a 15-foot Type B buffer and located outside of the relocated Jenks Duke Easement.

**This buffer may overlap with the existing Town of Apex Electric Easement (Deed Book 16203, Page 1465) and Duke Energy Electric Easement along Wimberly Road provided there is a 10-foot wide planting area as measured from the edge of the easement.

ARCHITECTURAL STANDARDS

Altera Heights offers the following architectural controls to ensure a consistency of character throughout the development, while allowing for enough variety to create interest and avoid monotony. Elevations included are conceptual examples. Final elevations must comply with these architectural standards but may vary from the conceptual elevations. Further details may be provided at the time of Site Plan submittal.

RESIDENTIAL DESIGN GUIDELINES

Multi-Family/Apartments/Condominiums:

- **1.** Vinyl siding is not permitted; however, vinyl windows, decorative elements, and trim are permitted.
- **2.** Rear and side elevations of units that have right-of-way frontage shall have trim around the windows.
- **3.** A minimum of three of the following features shall be used on each building:
 - a. Decorative shake
 - b. Board and batten
 - c. Decorative porch railing/posts
 - d. Shutters
 - e. Decorative/functional air vents on roof or foundation
 - f. Recessed windows
 - g. Decorative windows
 - h. Decorative brick/stone
 - i. Gables
 - j. Decorative cornices
 - k. Tin/metal roof
- **4.** Garage doors must have windows, decorative details, or carriage-style adornments on them.
- 5. Windows that are not recessed must be trimmed.

PARKING AND LOADING

Multi-Family buildings shall provide the following minimum parking spaces per dwelling unit based on the number of bedrooms:

Bedrooms per unit	Minimum ratio
1 or 2	1.3 spaces per dwelling unit
3	1.8 spaces per dwelling unit

SIGNAGE

Signage shall comply with UDO Section 8.7.

NATURAL RESOURCES AND ENVIRONMENTAL DATA

RIVER BASINS AND WATERSHED PROTECTION OVERLAY DISTRICTS

The property is in the Primary Watershed Protection Overlay District as shown on the Town of Apex Watershed Protection Overlay Map 2019. This PUD will comply with all built upon area,

vegetated conveyances, structural SCMs and riparian stream buffer requirements of UDO Section 6.1.8.

Resource Conservation Areas (RCA)

This PUD will meet the requirements of Section 8.1.2 of the UDO, Resource Conservation Area, and Section 2.3.4, Planned Development Districts.

The PUD will provide a minimum of 25% of the gross project area as Resource Conservation Area ("RCA"). Designated RCA areas will be consistent with the items listed in UDO Section 8.1.2(B). Preserved streams, wetlands, and associated riparian buffers provide the primary RCAs throughout the site. Additional RCA areas may include perimeter and street front buffers, stormwater management areas, and greenways.

Floodplain

The project site does not sit within a designated current or future 100-year floodplain as shown on the Town of Apex Watershed & FEMA Map dated April 2015. FIRM Panel 3720072200J dated May 2, 2006 does not include a floodplain within the property boundary.

Historic Structures

There are no known historic structures present on the Property.

Environmental Commitments Summary

As shown elsewhere in the PUD, the following environmental conditions shall apply to the Development:

- The project shall install at least one (1) sign per SCM discouraging the use of fertilizer and to reduce pet waste near SCM drainage areas. The sign shall be installed in locations that are publicly accessible, such as adjacent to, but outside of public property and/or public easement(s), amenity centers, sidewalks, greenways, or side paths.
- At least 70% of plants shall be native species. Landscaping will be coordinated with and approved by the Planning Director at site plan or subdivision review.
- The project shall install a sign adjacent to wooded or natural condition Resource Conservation Area that indicates the area is RCA and to be preserved in perpetuity and not disturbed.
- The project shall install at least two (2) pet waste stations in the project in locations that are publicly accessible, such as adjacent to amenity centers, SCMs, sidewalks, greenways, or side paths.
- No invasive species shall be permitted. No single species of tree or shrub shall constitute more than 20% of the plant material of its type within a single development site.

• The project shall use full cutoff LED fixtures that have a maximum color temperature of 3,000K for all exterior lighting, including, but not limited to, parking lot and building mounted fixtures.

STORMWATER MANAGEMENT

The Development shall meet all stormwater management requirements for quality and quantity treatment in accordance with Section 6.1 of the UDO.

Acceptable stormwater structures shall include detention ponds, constructed wetlands, bioretention areas, or other approved devices consistent with the NC DEQ Stormwater Design Manual and the Town of Apex UDO.

PARKS AND RECREATION

Altera Heights PUD #24CZ11 was reviewed at the 02/26/2025 PRCR Advisory Commission meeting. The Commission unanimously recommended a fee in lieu of dedication for a maximum of 300 Multi-Family units. The fee in lieu rate will be set at the time of Town Council action on the Rezoning and run for the life of the project. The total fee-in-lieu (based on the final unit count) will be calculated at Site Plan and Construction Document review and deposited prior to issuance of the first building permit for each building.

PUBLIC FACILITIES

The proposed PUD shall meet all Public Facilities requirements as set forth in UDO Section 2.3.4(F)(1)(f) and be designed to comply with the Town's Sewer and Water Master Plan and Standards and Specifications. Road and utility infrastructure shall be as follows:

TRANSPORTATION IMPROVEMENTS

The following conditions regarding transportation improvements (the "Road Improvements") apply and shall be phased consistent with the Traffic Impact Analysis that has been performed for this rezoning, which is on file with the Town of Apex. All proposed driveway access and improvements on state-maintained roadways are subject to both Apex and NCDOT review and approval. All proposed roadway infrastructure and right-of-way dedications will be consistent with the Town of Apex. Comprehensive Transportation Plan.

1. <u>Wimberly Road Widening</u>. Developer shall widen Wimberly Road to accommodate turn lanes as required based on a minimum 35-foot back to back curb and gutter 2-lane section with a 10-foot Side Path in a 60-foot right-of-way. Developer shall dedicate up to 5 feet of additional right of way along the property's frontage where needed to accommodate required turn lanes.

2. <u>Wimberly Road/White Oak Pond Road/North Site Driveway Intersection</u>. Developer shall construct a full-movement stop-controlled two-lane driveway across from White Oak Pond Road.

3. <u>Wimberly Road/Retreat at Preserve at White Oak Driveway/South Site Driveway</u> <u>Intersection</u>. Developer shall construct:

- a. a full-movement stop-controlled two-lane driveway across from the planned Alderwood commercial site driveway approximately 550 feet north of Jenks Road;
- b. a northbound left turn lane on Wimberly Road with a minimum 50 feet of storage and appropriate deceleration length and taper; and
- c. a southbound left turn lane on Wimberly Road with a minimum 25 feet of storage and appropriate deceleration length and taper.

4. Jenks Road/Wimberly Road Intersection.

- a. Developer shall dedicate right-of-way in the northwestern quadrant of the intersection sufficient for the future construction of a metal pole traffic signal with signal cabinet and associated equipment.
- b. Prior to recordation of the Final Plat for the last phase of the development, Developer shall pay a fee in lieu for 50% of the estimated costs to design, acquire easements for, and construct a metal pole span wire traffic signal with pedestrian accommodations. Prior to Final Plat approval for the last phase of the development, Developer shall provide a preliminary signal geometric plan and engineer's estimate to the Town for review and approval.
- 5. <u>Jenks Road Widening</u>. Developer shall dedicate right of way and widen the northern half of Jenks Road for the length of the property's Jenks Road frontage based on a minimum 84-foot back to back curb and gutter 4-lane divided section with a 10-foot Side Path in a 110-foot right-of-way (the "Jenks Road Widening").
- 6. <u>Right of Way/Easement Acquisition</u>. The Road Improvements are intended to be located in existing Jenks Road and Wimberly Road rights of way and in additional right of way to be dedicated along the subject property's road frontage. If any Road Improvements require offsite rights of way, easements, or other property interests, the developer shall be responsible for acquiring all offsite easements and right of way necessary to construct committed transportation improvements. In the event that developer is unable to acquire the aforementioned easements and right of way through good faith efforts, Developer shall request assistance from the Town of Apex. In the event that the Town is unwilling or unable to assist with the acquisitions, Developer shall update engineering plans accordingly and pay a fee in lieu based on the fair market value of the offsite easements and right of way and estimated construction cost of the improvements, based on an engineer's estimate, subject to Town review and approval. Payment of the fee in

lieu shall satisfy the requirement to construct the committed transportation improvements.

CROSS ACCESS

Adjacent to the west of the property is the Cary-Apex Water Treatment Plant (PIN 0722488535). Adjacent to the south of the property is an undeveloped tract owned by the Town of Apex to be used for utilities (PIN 0722671588). Due to the nature of adjacent uses, the project shall not be required to provide vehicular or pedestrian cross access to adjacent properties.

PEDESTRIAN AND BICYCLE IMPROVEMENTS

Per the Town of Apex Bicycle and Pedestrian System Plan Map and UDO requirements, the developer shall construct a 10-foot Side Path along the property's Jenks Road and Wimberly Road frontage.

WATER AND SANITARY SEWER

All lots within the Development will be served by Town of Apex water and sanitary sewer. The utility design will be finalized at the time of Site Plan approval and be based on available facilities adjacent to the site at that time. The design will meet the current Town of Apex Sewer and Water Master Plan and Standards and Specifications. A conceptual utility plan is included in the PUD Concept Plan for reference.

OTHER UTILITIES

Electricity will be provided by Apex Electric. Phone and cable will be provided by the Developer via third parties and shall meet Town of Apex standards as outlined in the UDO.

PHASING

The project may be completed in phases. Final locations of phases will be determined at the time of Site Plan review and approval.

CONSISTENCY WITH LAND USE PLAN

The Town of Apex 2045 Land Use Map (the "LUM") designates the property as Office/Commercial Services. However, non-residential uses are infeasible on the property. The office market has not recovered from COVID-19; in first quarter 2024, the direct vacancy rate for office space in Raleigh-Durham increased to 15.6% and the suburban vacancy rate increased to 16.2%.² Seven of the ten largest vacancies were in suburban submarkets, mostly concentrated in the RTP/I-40

² See Cushman & Wakefield Q1 2024 Raleigh Office Report. https://cw-gbl-gws-prod.azureedge.net/-/media/cw/marketbeat-pdfs/2024/q1/us-reports/office/raleigh-

durham_americas_marketbeat_office_q12024.pdf?rev=e3d179927e8343c69bd3895c5d3d6fab

Corridor submarket which had the highest overall vacancy rate of 30.9%. Commercial uses on the site face challenges due to the lot configuration. Because of the configuration of the Town owned property to the south (PIN 0722671588), the property has minimal frontage on Jenks Road, the primary transportation corridor, and will only have driveway access to Wimberly Road. Additionally, non-residential development is drawn to US-64 where visibility is better and daily trips are higher.

Given those constraints, an attainable housing community is the highest and best use of the property. It will further Goal 1.2(d) of the Affordable Housing Incentive Zoning Policy and Procedures Manual (the "Affordable Policy"), to create "mixed-income communities, with affordable housing units integrated within residential and mixed-use market rate developments." According to the Affordable Housing Plan (the "Affordable Plan"), over the next decade, Apex is projected to add 1,900 jobs with incomes below \$75,000, which will further contribute to the Town's affordable housing need; jobs such as grocery cashiers, firefighters, and nurses.

COMPLIANCE WITH UDO

The development standards proposed for this PUD comply with those set forth in the Town's Unified Development Ordinance (UDO). This PUD shall be the primary governing document for the development of Altera Heights. All standards and regulations in this PUD shall control over general standards of the UDO. Provided, however, that if a specific regulation is not addressed in this PUD, UDO regulations shall control.

EXHIBIT A Legal Description The Property

BEGINNING ON THE SOUTHERN RIGHT OF WAY OF WIMBERLY ROAD (60' PUBLIC RIGHT OF WAY) AT AN EXISTING IRON PIPE ON THE NORTHEASTERN CORNER OF LOT 1 RECORDED IN BOOK OF MAPS 1994 PAGE 435 RECORDED IN THE WAKE COUNTY REGISTER OF DEEDS AND HAVING N.C. GRID COORDINATES OF N: 728,630.67, E: 2,026,294.61 NAD83/2011, THENCE FROM SAID POINT AND WITH THE SOUTHERN RIGHT OF WAY SOUTH 49° 11' 09" EAST FOR A DISTANCE OF 107.51 FEET TO AN IRON PIPE SET, THENCE SOUTH 40° 46' 30" EAST FOR A DISTANCE OF 106.86 FEET TO AN IRON PIPE SET, THENCE SOUTH 33° 47' 29" EAST FOR A DISTANCE OF 79.92 FEET TO AN IRON PIPE SET, THENCE SOUTH 28° 06' 25" EAST FOR A DISTANCE OF 94.74 FEET TO AN IRON PIPE SET, THENCE SOUTH 24° 00' 16" EAST FOR A DISTANCE OF 484.42 FEET TO AN IRON PIPE SET, THENCE SOUTH 25° 31' 04" EAST FOR A DISTANCE OF 82.88 FEET TO AN IRON PIPE SET, THENCE SOUTH 27° 41' 54" EAST FOR A DISTANCE OF 31.47 FEET TO AN IRON PIPE SET, THENCE SOUTH 23° 56' 01" WEST FOR A DISTANCE OF 47.61 FEET TO AN IRON PIPE SET ON THE NORTHERN RIGHT OF WAY OF JENKS ROAD (60' PUBLIC RIGHT OF WAY), THENCE ALONG THE NORTHERN RIGHT OF WAY SOUTH 75° 33' 56" WEST FOR A DISTANCE OF 115.59 FEET TO AN IRON PIPE, THENCE SOUTH 74° 18' 49" WEST A DISTANCE OF 68.97 FEET TO AN IRON PIPE WITH CAP, THENCE LEAVING THE NORTHERN RIGHT OF WAY OF JENKS ROAD (60' PUBLIC RIGHT OF WAY) NORTH 88° 58' 44" WEST FOR A DISTANCE OF 563.29 FEET TO AN ANGLE IRON, THENCE NORTH 88° 58' 44" WEST FOR A DISTANCE OF 47.06 FEET TO AN IRON PIPE, THENCE NORTH 01° 32' 21" EAST FOR A DISTANCE OF 424.08 FEET TO AN AXLE, THENCE NORTH 01° 32' 21" EAST FOR A DISTANCE OF 12.51 FEET TO AN IRON PIPE THENCE NORTH 01° 32' 21" EAST A DISTANCE OF 151.76 FEET TO AN IRON PIPE, THENCE NORTH 01° 32' 21" EAST FOR A DISTANCE OF 15.73 FEET TO AN IRON PIPE, THENCE NORTH 01° 32' 21" EAST A DISTANCE OF 84.35 FEET TO AN IRON PIPE, THENCE NORTH 01° 32' 18" EAST FOR A DISTANCE OF 411.13 FEET TO AN IRON PIPE SET ON THE SOUTHERN RIGHT OF WAY OF WIMBERLY ROAD (60' PUBLIC RIGHT OF WAY), THENCE WITH THE SOUTHERN RIGHT OF WAY SOUTH 61° 03' 43" EAST FOR A DISTANCE OF 170.57 FEET TO AN IRON PIPE SET, THENCE SOUTH 59° 15' 00" EAST FOR A DISTANCE OF 74.16 FEET TO AN IRON PIPE SET, THENCE SOUTH 56° 01' 14" EAST FOR A DISTANCE OF 93.72 FEET TO THE POINT AND PLACE OF BEGINNING CONTAINING 13.55 ACRES, MORE OR LESS.

EXHIBIT B

Ownership Addendum

PIN 0722673959

Address: 8108 Jenks Road Acreage: 9.64 acres Owner: Terry Cichocki Deed Book/Page: 16193/229 Owner Address: 8108 Jenks Road, Apex, NC 27523

PIN 0722682430

Address: 1508 Wimberly Road Acreage: 2.08 acres Owner: Danny Ottaway and Joan Ottaway Deed Book/Page: 13368/821 Owner Address: 10401 Chapel Hill Road, Morrisville, NC 27560

PIN 0722681610

Address: 1440 Wimberly Road Acreage: 1.83 acres Owner: Terry Poole Deed Book/Page: 12394/1101 Owner Address: 1440 Wimberly Road, Apex, NC 27523

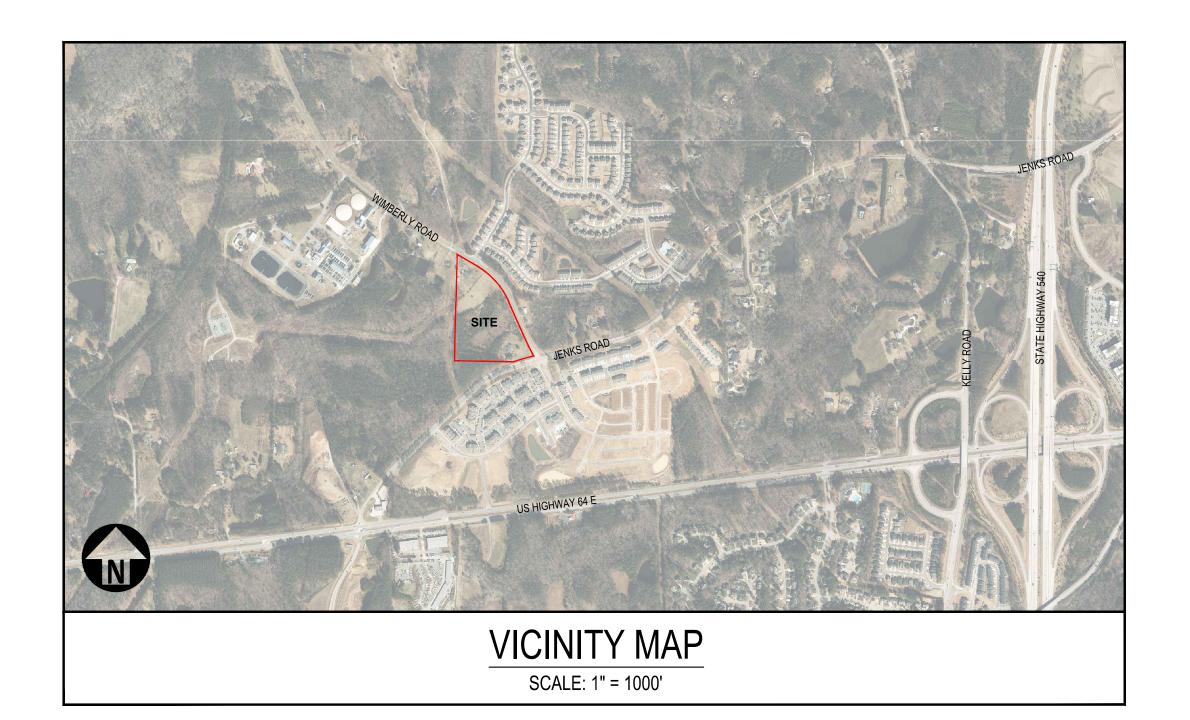


	SITE DATA TABLE					
DEVELOPER	WP EAST ACQUISITIONS, LLC. 1414 RALEIGH ROAD, SUITE 429 CHAPEL HILL, NC 27517					
PARCELS	0722681610, 072	2682430, 0722673959				
SITE AREA	GROSS	13.55 ACRES				
	R/W DEDICATION	0.13 ACRES				
	NET	13.42 ACRES				
EXISTING ZONING	RR (RURAL RESI	DENTIAL)				
PROPOSED ZONING	PUD-CZ					
RIVER BASIN	CAPE FEAR					
WATERSHED OVERLAY	PRIMARY WATERSHED PROTECTION OVERLAY DISTRICT					
HISTORIC STRUCTURES	NONE					
MAX BUILT UPON AREA (IMPERVIOUS)	9.39 ACRES (70%)					
2045 LAND USE MAP (LUM) DESIGNATION	OFFICE EMPLOYMENT, COMMERCIAL					
AREA DESIGNATED AS MIXED-USE ON 2045 LUM	NONE					
AREA OF MIXED-USE PROPOSED AS NON-RESIDENTIAL	NONE					
PROPOSED USE	MULTI-FAMILY A	PARTMENTS				
MAXIMUM DENSITY	300 UNITS					
BUFFER CALL IDENTIFICATION NUMBER	APEX 23-008	APEX 23-008				
EXISTING SF OF BUILDINGS	4,158 SF					
PROPOSED BLDG HEIGHT	60 FEET (4 STOF	IES)				
REQUIRED PARKING	1-2 BEDROOMS	1.3 SPACES PER DWELLING				
SPACES	3+ BEDROOMS 1.8 SPACES PER DWELLING					
REQUIRED RESOURCE CONSERVATION AREA	25% (RCA AREA UDO SECTION 8.	WILL MEET CRITERIA IN 1.2.)				
SETBACKS	FRONT10 FEETCORNER10 FEETREAR10 FEET					

BUILDING SEPARATION 30 FEET

OWNERS

- PIN: 0722673959 TERRY CICHOCKI 8108 JENKS ROAD APEX, NC 27523-9423
- 2. PIN: 0722682430 DANNY L. AND JOAN M. OTTAWAY 10401 CHAPEL HILL ROAD MORRISVILLE, NC 27560-8710
- 3. PIN: 0722681610 TERRY D. POOLE 1440 WIMBERLY ROAD APEX, NC 27523-9660



PLANNED DEVELOPMENT PLAN FOR PUD-CZ **ALTERA HEIGHTS** JENKS ROAD AND WIMBERLY ROAD APEX, NORTH CAROLINA

FIRST SUBMITTAL: JUNE 3RD, 2024 SECOND SUBMITTAL: AUGUST 2ND, 2024 THIRD SUBMITTAL: FEBRUARY 7TH, 2025 FOURTH SUBMITTAL: APRIL 4TH, 2025



5438 WADE PARK BLV SUITE 420 RALEIGH NC 27607 WWW.BGEINC.COM NC LICENSE #C-4397

CONTACT: RYAN FISHER rfisher@bgeinc.com (984) 212-8825

DEVELOPER:

WP EAST ACQUISITIONS, LLC 1414 RALEIGH ROAD, SUITE 429 CHAPEL HILL, NC 27517 PHONE: (704) 332-8995

SHEET LIST TABLE					
SHEET NUMBER	SHEET TITLE				
C0-0	COVER SHEET				
C1-0	EXISTING CONDITIONS				
C1-1	PRELIMINARY LAYOUT PLAN				
C1-2	CONCEPTUAL BUILDING ELEVATIONS				
C1-3	CONCEPTUAL BUILDING ELEVATIONS				
C1-4	CONCEPTUAL BUILDING ELEVATIONS				
C1-5	CONCEPTUAL BUILDING ELEVATIONS				
C1-6	CONCEPTUAL BUILDING ELEVATIONS				
C1-7	CONCEPTUAL BUILDING ELEVATIONS				
C1-8	CONCEPTUAL BUILDING ELEVATIONS				
C1-9	CONCEPTUAL BUILDING ELEVATIONS				
C1-10	CONCEPTUAL BUILDING ELEVATIONS				
C1-11	CONCEPTUAL BUILDING ELEVATIONS				
C1-12	CONCEPTUAL BUILDING ELEVATIONS				
C1-13	CONCEPTUAL BUILDING ELEVATIONS				
C1-14	CONCEPTUAL BUILDING ELEVATIONS				
C1-15	CONCEPTUAL BUILDING ELEVATIONS				
C1-16	CONCEPTUAL BUILDING ELEVATIONS				
C1-17	CONCEPTUAL BUILDING ELEVATIONS				
C1-18	CONCEPTUAL BUILDING ELEVATIONS				

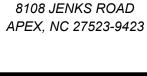
REZONING CONDITIONS

- ARCHITECTURAL CONDITIONS: VINYL SIDING IS NOT PERMITTED; HOWEVER, VINYL WINDOWS, DECORATIVE ELEMENTS, AND TRIM ARE PERMITTED.
- REAR AND SIDE ELEVATIONS OF UNITS THAT HAVE RIGHT-OF-WAY FRONTAGE SHALL HAVE TRIM AROUND THE WINDOWS.
- A MINIMUM OF THREE OF THE FOLLOWING FEATURES SHALL BE USED ON EACH BUILDING:
- a. DECORATIVE SHAKE
- b. BOARD AND BATTEN
- c. DECORATIVE PORCH RAILING/POSTS
- d. SHUTTERS e. DECORATIVE/FUNCTIONAL AIR VENTS ON ROOF OR FOUNDATION
- f. RECESSED WINDOWS
- g. DECORATIVE WINDOWS
- h. DECORATIVE BRICK/STONE
- i. GABLES
- j. DECORATIVE CORNICES k. TIN/METAL ROOF
- GARAGE DOORS MUST HAVE WINDOWS, DECORATIVE DETAILS, OR CARRIAGE-STYLE ADORNMENTS ON
- THEM. 5. WINDOWS THAT ARE NOT RECESSED MUST BE TRIMMED.

AS SHOWN ELSEWHERE IN THE PUD, THE FOLLOWING ENVIRONMENTAL CONDITIONS SHALL APPLY TO THE DEVELOPMENT:

- 1. THE PROJECT SHALL INSTALL AT LEAST ONE (1) SIGN PER SCM DISCOURAGING THE USE OF FERTILIZER AND TO REDUCE PET WASTE NEAR SCM DRAINAGE AREAS. THE SIGN SHALL BE INSTALLED IN LOCATIONS THAT ARE PUBLICLY ACCESSIBLE, SUCH AS ADJACENT TO, BUT OUTSIDE OF PUBLIC PROPERTY AND/OR PUBLIC EASEMENT(S), AMENITY CENTERS, SIDEWALKS, GREENWAYS, OR SIDE PATHS.
- AT LEAST 70% OF PLANTS SHALL BE NATIVE SPECIES. LANDSCAPING WILL BE COORDINATED WITH AND
- APPROVED BY THE PLANNING DIRECTOR AT SITE PLAN OR SUBDIVISION REVIEW. NO INVASIVE SPECIES SHALL BE PERMITTED. NO SINGLE SPECIES OF TREE OR SHRUB SHALL CONSTITUTE
- MORE THAN 20% OF THE PLANT MATERIAL OF ITS TYPE WITHIN A SINGLE DEVELOPMENT SITE. . THE PROJECT SHALL INSTALL A SIGN ADJACENT TO WOODED OR NATURAL CONDITION RESOURCE
- CONSERVATION AREA THAT INDICATES THE AREA IS RCA AND TO BE PRESERVED IN PERPETUITY AND NOT DISTURBED.
- THE PROJECT SHALL INSTALL AT LEAST TWO (2) PET WASTE STATIONS IN THE PROJECT IN LOCATIONS THAT ARE PUBLICLY ACCESSIBLE, SUCH AS ADJACENT TO AMENITY CENTERS, SCMS, SIDEWALKS, GREENWAYS, OR SIDE PATHS.
- THE PROJECT SHALL USE FULL CUTOFF LED FIXTURES THAT HAVE A MAXIMUM COLOR TEMPERATURE OF 3000K FOR ALL EXTERIOR LIGHTING, INCLUDING, BUT NOT LIMITED TO, PARKING LOT AND BUILDING MOUNTED FIXTURES.

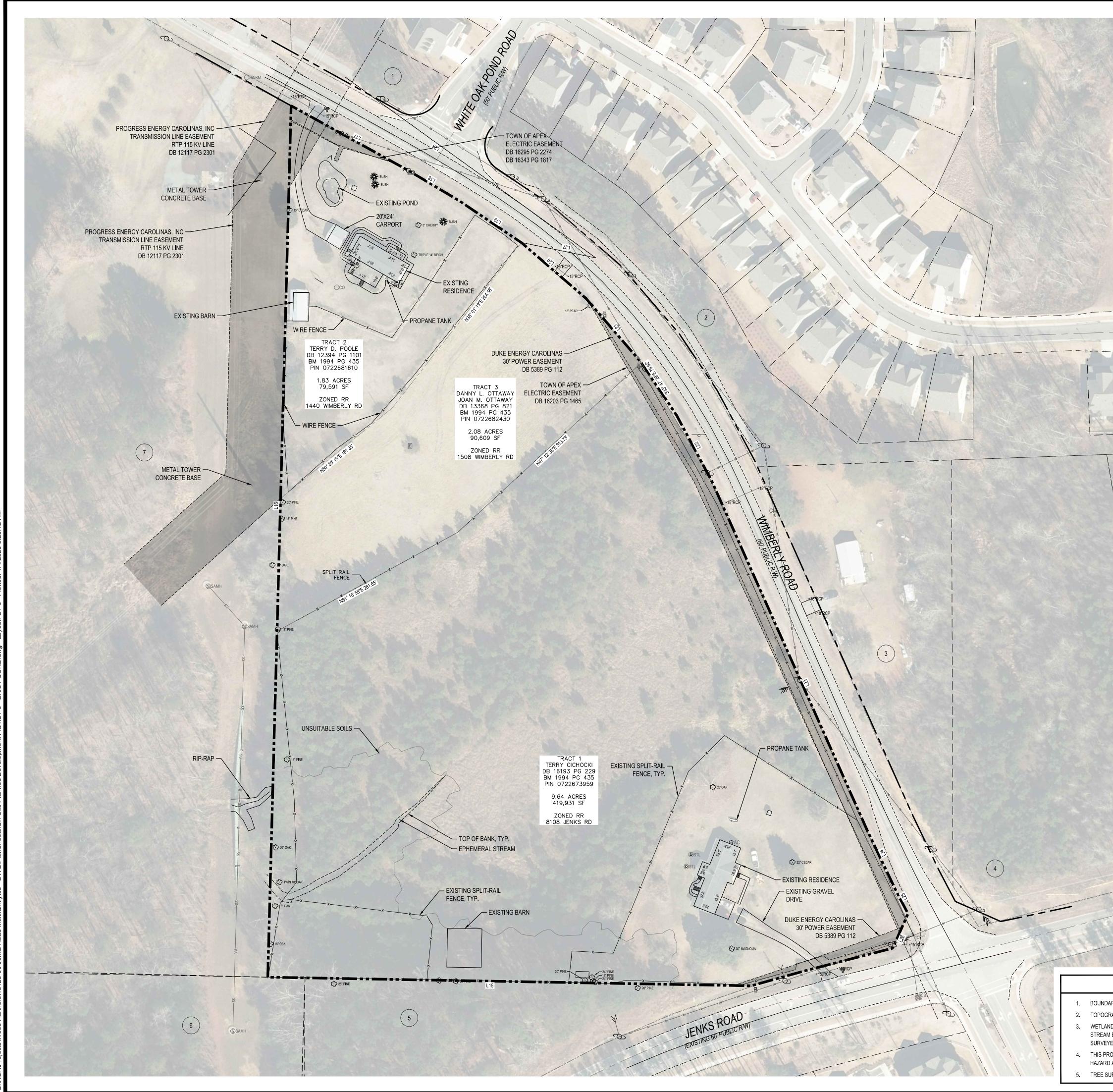




PUD-CZ DRAWINGS

FOR: ALTERA HEIGHTS

FILE NUMBER: 13123-00



4/Projects/Wood Partners/13123-00 Jenks Road Multifamily/03 - DWG/PlanSheets/On-Site/Planned Development Plan/C1-0 - EXIST COND.dwg Layout: C1-0 Plotted: 4/4/2025 9:29:12 AM

			ADJ	ACENT PROPE
LINE # L1 4 L2 L3 L3 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14	INE TABL DIRECTION S61'03'43"E S59'15'00"E S56'01'14"E S49'11'09"E S40'46'30"E S23'56'01"W S73'47'29"E S23'56'01"W S75'33'56"W S74'18'49"W S78'20'07"E N54'12'42"W	E LENGTH 170.57' 74.16' 93.72' 107.51' 106.86' 79.92' 94.74' 82.88' 31.47' 47.61' 115.59' 68.97' 95.81' 389.19'	ADJ 1. 2. 3. 4. 5. 6.	ACENT PROPER PIN: 0722692652 DB. 018946 PG. 0 THE PRESERVE 15501 WESTON F CARY, NC 27513 PIN: 0722689944 DB. 017584 PG. 0 THE PRESERVE 15501 WESTON F CARY, NC 27513 PIN: 0722687241 D.B. 019165 PG. 0 COLUMBIA INVES P.O. BOX 1897 APEX, NC 27502- PIN: 0722689065 D.B. 019165 PG. 0 COLUMBIA INVES P.O. BOX 1897 APEX, NC 27502- PIN: 0722671588 D.B. 017267 PG. 0 TOWN OF APEX P.O. BOX 250 APEX, NC 27502- PIN: 0722576478 D.B. 019499 PG. 0 CRP/BI JENKS R(1001 PENNSYLV/ WASHINGTON, D
				PIN: 0722488535 D.B. 004409 PG. 0 TOWN OF APEX P.O. BOX 8005 CARY, NC 27512-

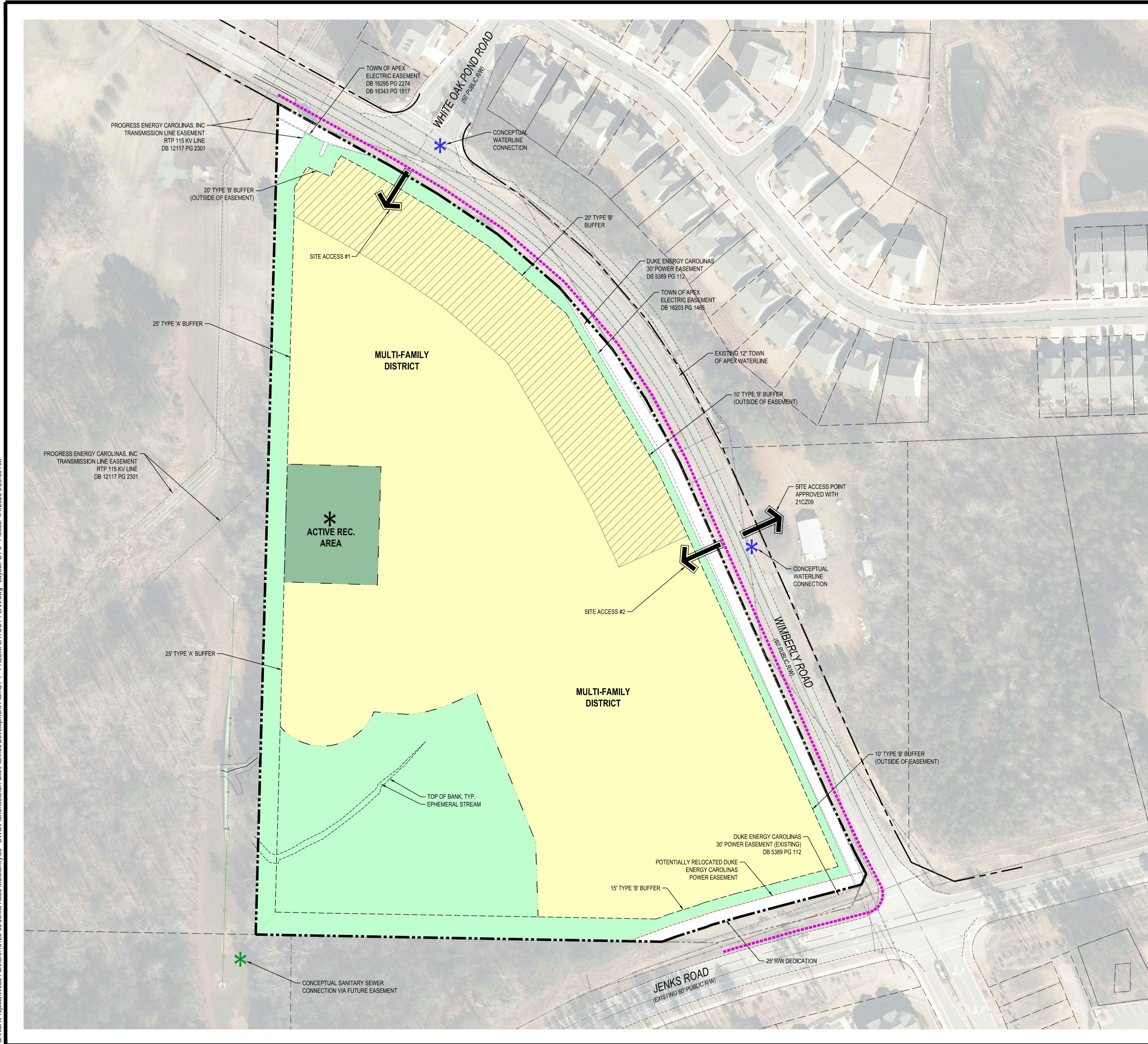
GENERAL NOTES

BOUNDARY FROM SURVEY BY BGE INC. COMPLETED ON 5/23/2024.

TOPOGRAPHY FROM SURVEY BY BGE INC. COMPLETED ON 5/23/2024. WETLANDS AND ENVIRONMENTAL FEATURES DELINEATED BY WITHERSRAVENEL ON 3/14/2024. STREAM BUFFER DETERMINATION BY THE TOWN OF APEX WAS COMPLETED ON 5/9/2024 AND SURVEYED BY BGE, INC. ON 5/23/2024.

 THIS PROJECT IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS AS SHOWN ON FIRM PANEL 3720072200K, DATED 7/19/2022.
 TREE SURVEY PROVIDED BY COMPLETED BY BGE, INC. ON 5/23/2024.

ACENT PROPERTY OWNER INFORMATION: PIN: 0722692652 DB. 018946 PG. 02091 THE PRESERVE AT WHITE OAK CREEK HOMEOWNERS ASSOCIATION 15501 WESTON PARKWAY, SUITE 100 CARY, NC 27513-8636 PIN: 0722689944 DB. 017584 PG. 02495 THE PRESERVE AT WHITE OAK CREEK HOMEOWNERS ASSOCIATION 15501 WESTON PARKWAY, SUITE 100 CARY, NC 27513-8636 PIN: 0722687241 D.B. 019165 PG. 02160 COLUMBIA INVESTMENTS LLC. P.O. BOX 1897 APEX, NC 27502-1100 PIN: 0722689065 D.B. 019165 PG. 02155 COLUMBIA INVESTMENTS LLC. P.O. BOX 1897 APEX, NC 27502-1100 PIN: 0722671588	√ × √ × √ × √ × √ × √ 04/04/2025 √ 02/07/2025 √ 02/07/2025 × 08/02/2024 REV DATE DATE DESCRIPTION
D.B. 017267 PG. 01687 TOWN OF APEX P.O. BOX 250 APEX, NC 27502-0250	DESIGNED BY: CM DRAWN BY: CM
PIN: 0722576478 D.B. 019499 PG. 02788 CRP/BI JENKS ROAD APEX OWNER LLC 1001 PENNSYLVANIA AVE NW SUITE 220	REVIEWED BY: RF
WASHINGTON, DC 20004-2525 PIN: 0722488535 D.B. 004409 PG. 00746 TOWN OF APEX / TOWN OF CARY P.O. BOX 8005 CARY, NC 27512-8005	5438 WADE PARK BL VD, SUITE 420 RALEIGH NC 27607 WWW.BGEINC.COM NC LICENSE #C-4397 ©2
	WP EAST ACQUISITIONS, LLC. 1414 RALEIGH ROAD, SUITE 429 CHAPEL HILL, NC 27517
	ALTERA HEIGHTS APEX, NORTH CAROLINA 27523-9423
	EXISTING CONDITIONS
	SEAL STRUCTURE SEAL STRUCTURE STRUCTURE SEAL STRUCTURE SEAL STRUCT
	FILE NUMBER:
0 30' 60' 120' SCALE: 1" = 60'	DATE: 06/03/2024
SUALE. I - OU	



LEG	END						
	PROPERTY LINE						
	MULTIFAMILY CONCEPTUAL DEVELOPMENT BLOCK				COMMENTS	MENTS	MENTS
	BUILDINGS LOCATED IN THIS AREA BE LIMITED TO 3 FLOORS (50 FT)	SHALL			ТО	E TO COM	E TO COM
	RESOURCE CONSERVATION AREA				RESPONSE	RESPONSE TO COMMENTS	RESPONSE TO COMMENTS
*	ACTIVE RECREATION AREA				04/04/2025	02/07/2025	08/02/2024
	CONCEPTUAL SITE ACCESS		$\sqrt{5}$	$\sqrt{4}$	3 04		
•••••	CONCEPTUAL 10' SIDEPATH		DESI	GNED) BY:		СМ
*			DRA	WN BY	Y:		СМ
· [•	CONNECTION		REV	EWED) BY:		RF
*	CONCEPTUAL SANITARY SEWER CONNECTION						

CM

CM

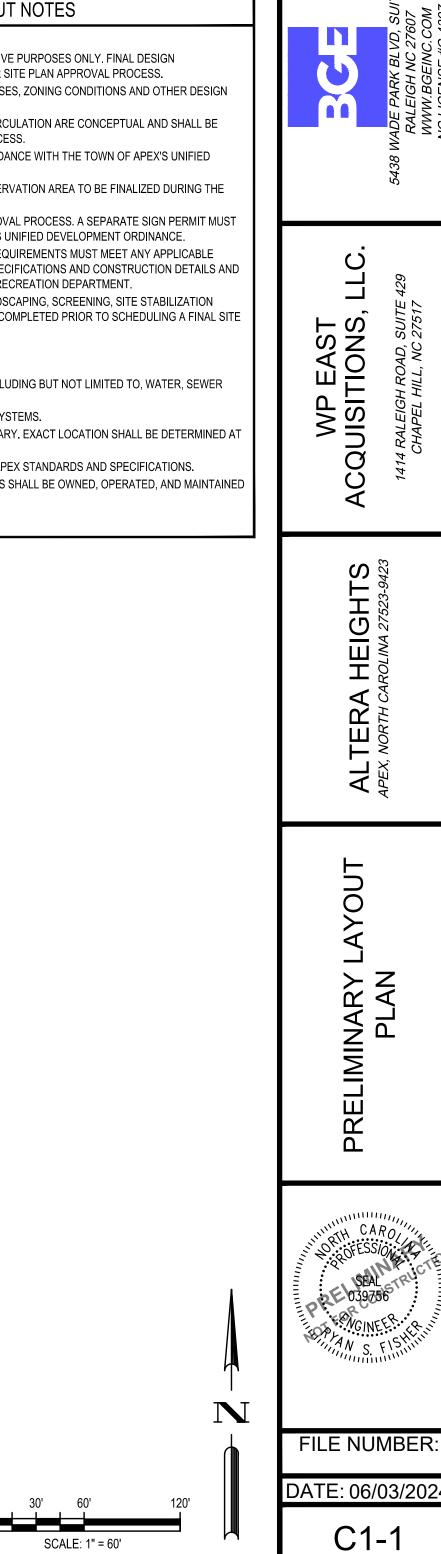
PRELIMINARY LAYOUT NOTES

GENERAL NOTES:

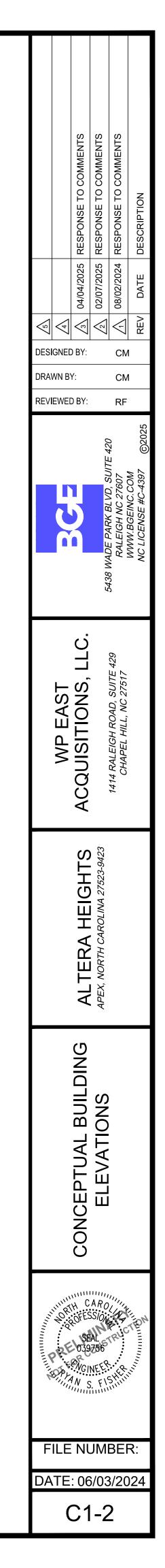
- 1. ALL ZONING PLAN SHEETS ARE INTENDED FOR ILLUSTRATIVE PURPOSES ONLY. FINAL DESIGN COMPONENTS SHALL BE DETERMINED DURING THE MINOR SITE PLAN APPROVAL PROCESS.
- REFER TO THE PUD TEXT DOCUMENTS FOR ALLOWABLE USES, ZONING CONDITIONS AND OTHER DESIGN STANDARDS.
- ALL VEHICULAR ACCESS LOCATIONS AND PEDESTRIAN CIRCULATION ARE CONCEPTUAL AND SHALL BE FINALIZED DURING THE MINOR SITE PLAN APPROVAL PROCESS.
- TREE PROTECTION FENCING SHALL BE PLACED IN ACCORDANCE WITH THE TOWN OF APEX'S UNIFIED DEVELOPMENT ORDINANCE.
- . EXACT LOCATION OF OPEN SPACE AND RESOURCE CONSERVATION AREA TO BE FINALIZED DURING THE MINOR SITE PLAN APPROVAL PROCESS.
- NO SIGNS ARE APPROVED AS PART OF THE PUD-CZ APPROVAL PROCESS. A SEPARATE SIGN PERMIT MUST BE OBTAINED IN ACCORDANCE WITH THE TOWN OF APEX'S UNIFIED DEVELOPMENT ORDINANCE. SITE ELEMENTS REQUIRED TO SATISFY RECREATIONAL REQUIREMENTS MUST MEET ANY APPLICABLE STANDARDS FOUND IN THE TOWN OF APEX STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS AND
- THE REQUIREMENTS OF THE TOWN OF APEX PARKS AND RECREATION DEPARTMENT.
- 8. SITE ITEMS SUCH AS BUT NOT LIMITED TO, LIGHTING, LANDSCAPING, SCREENING, SITE STABILIZATION (SEEDING), PARKING, AND PAVEMENT MARKING, MUST BE COMPLETED PRIOR TO SCHEDULING A FINAL SITE INSPECTION.

UTILITY NOTES:

- 1. THIS PROJECT IS REQUESTING FULL TOWN SERVICES, INCLUDING BUT NOT LIMITED TO, WATER, SEWER AND ELECTRICITY.
- 2. THE SITE WILL NOT UTILIZE PRIVATE SEWAGE DISPOSAL SYSTEMS.
- ALL UTILITY EASEMENTS SHALL BE PROVIDED AS NECESSARY. EXACT LOCATION SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION DRAWINGS.
- ALL CONSTRUCTION SHALL COMPLY WITH THE TOWN OF APEX STANDARDS AND SPECIFICATIONS. 5. ALL WATER AND SEWER MAINS WITHIN PUBLIC EASEMENTS SHALL BE OWNED, OPERATED, AND MAINTAINED BY THE TOWN OF APEX.

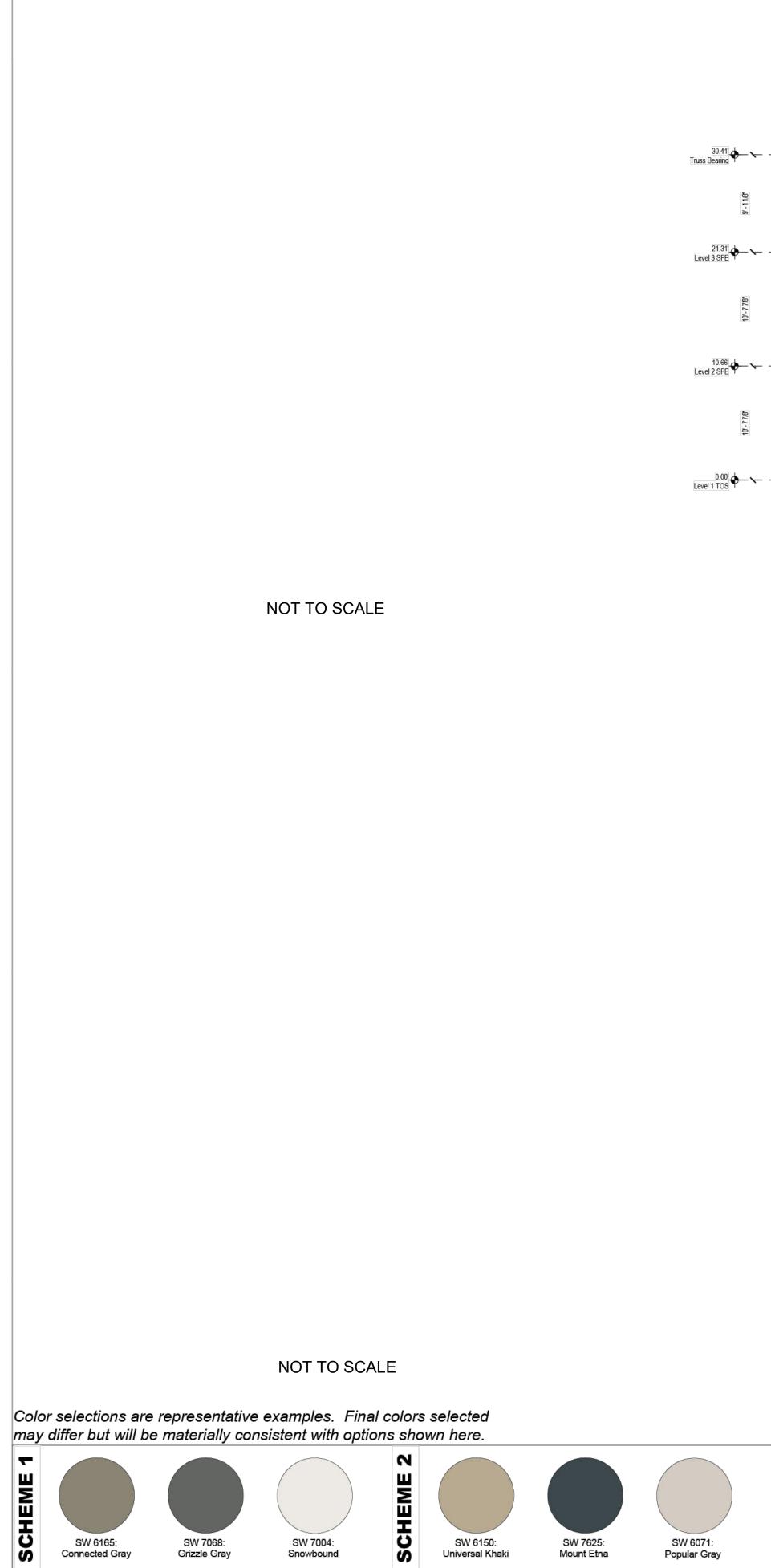




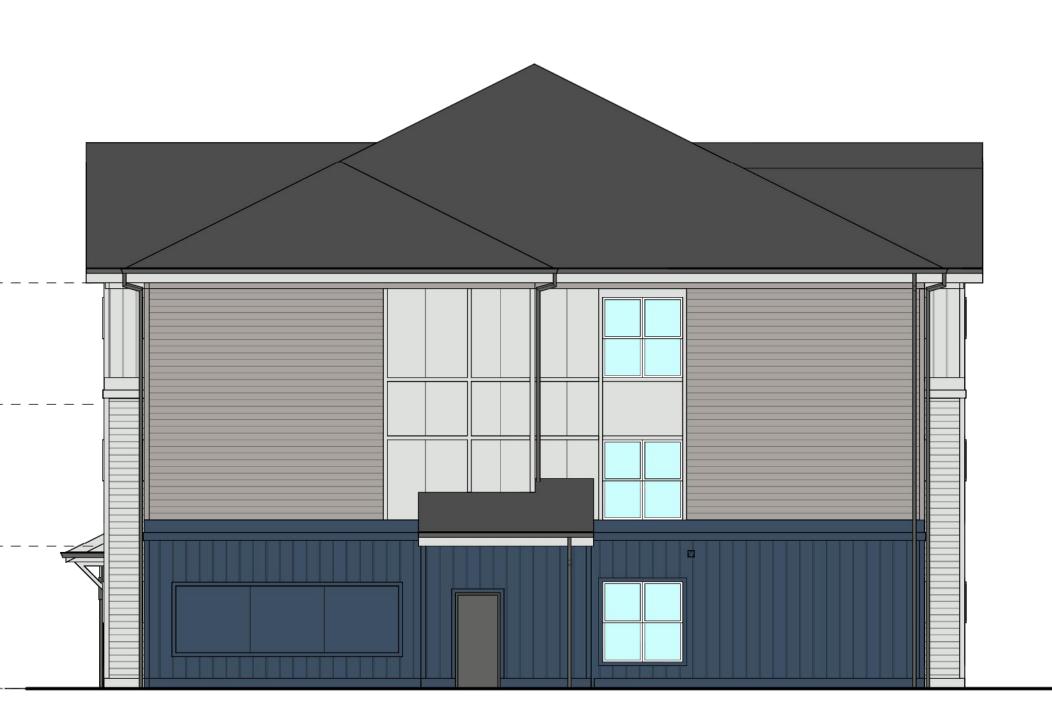








EME 3



RESIDENTIAL BUILDING TYPE B1 EAST ELEVATION - OPTION 2

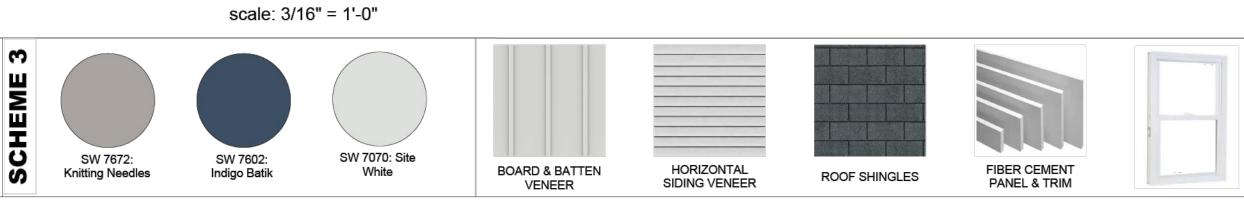
scale: 3/16" = 1'-0"

NOT TO SCALE



NOT TO SCALE

RESIDENTIAL BUILDING TYPE B1 WEST ELEVATION - OPTION 2

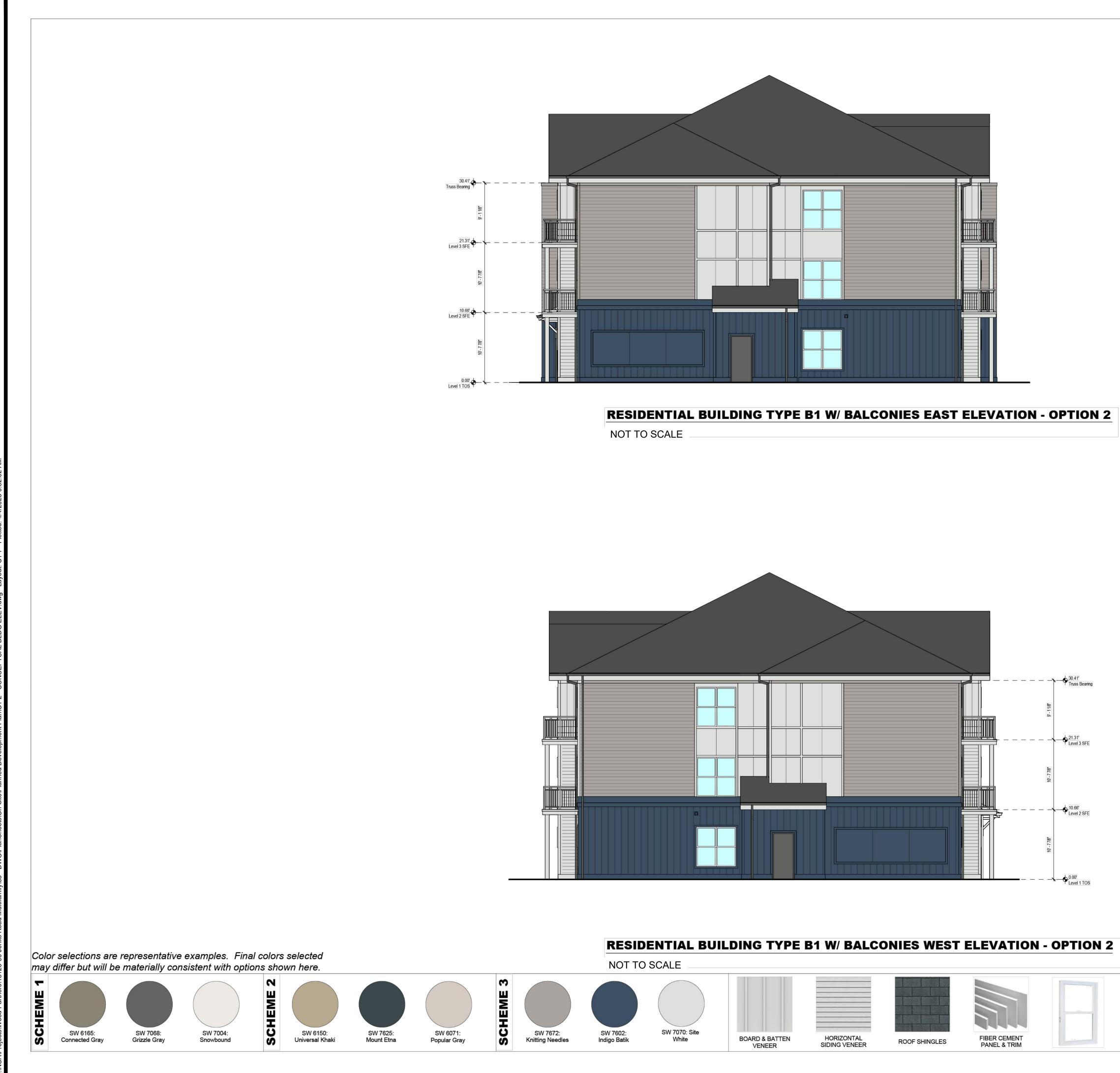


	AMENTS	AMENTS	AMENTS			
	04/04/2025 RESPONSE TO COMMENTS	02/07/2025 RESPONSE TO COMMENTS	▲ 08/02/2024 RESPONSE TO COMMENTS	DESCRIPTION		
DESIGNEE DRAWN B' REVIEWEE) BY: (:	202/07/2025	CN CN			
		5438 MADE DAPK RUVD SUITE 420	RALEIGH NC 27607	WWW.BGEINC.COM NC LICENSE #C-4397 ©2025		
WP EAST	WP EAST ACQUISITIONS, LLC. 1414 RALEIGH ROAD, SUITE 429 CHAPEL HILL, NC 27517					
	ALTERA HEIGHTS /					
	CONCEPTUAL BUILDING	ELEVATIONS				
INTRA CONTRACTOR	SEAL SEAL FOR SEAL SEAL SEAL SEAL SEAL SEAL SEAL SEAL					
	: 06	JMI 5/03	8/20			

A R C H I T E C T U R E INTERIOR DESIGN

VOOD PARTNERS

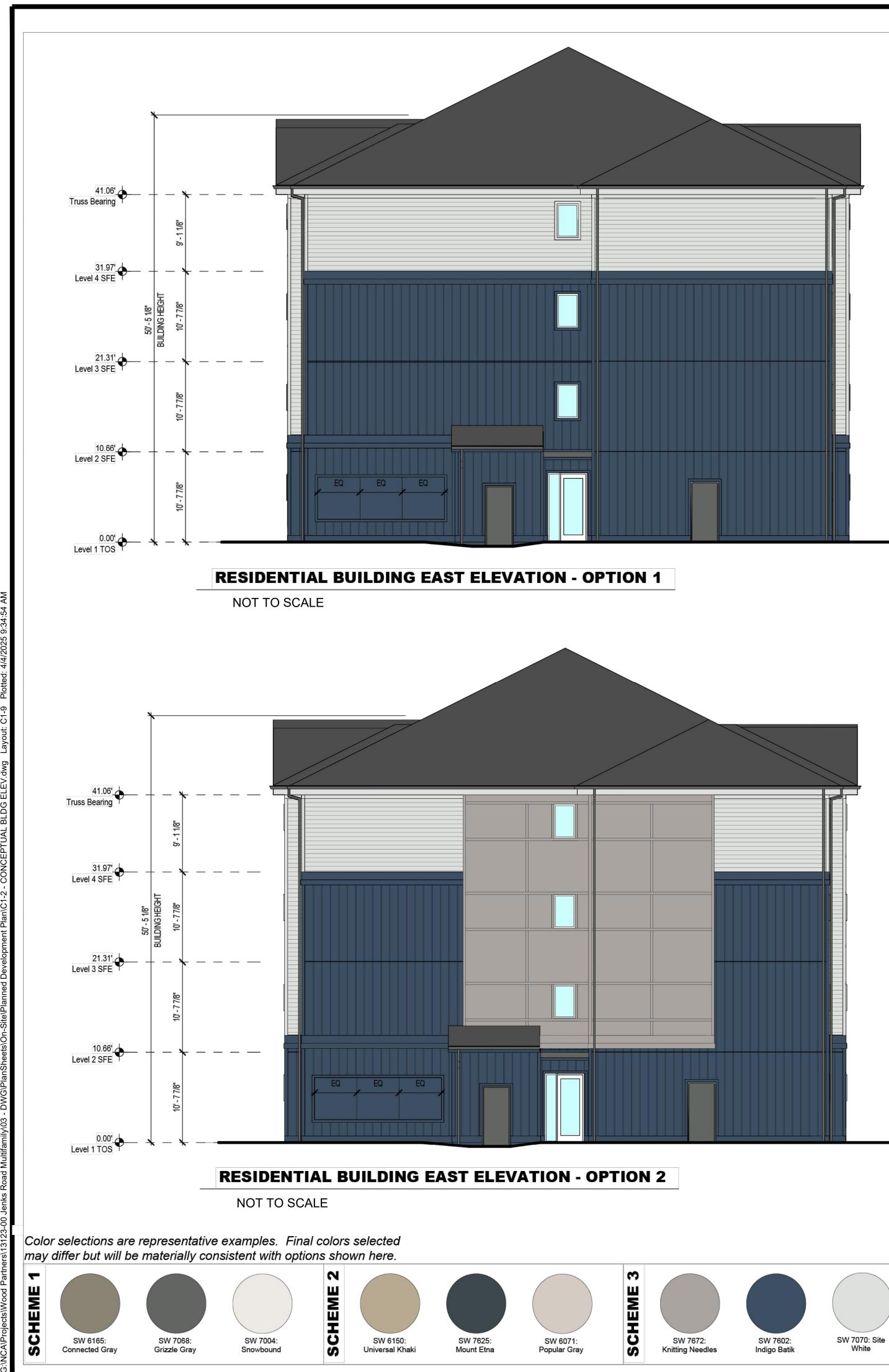


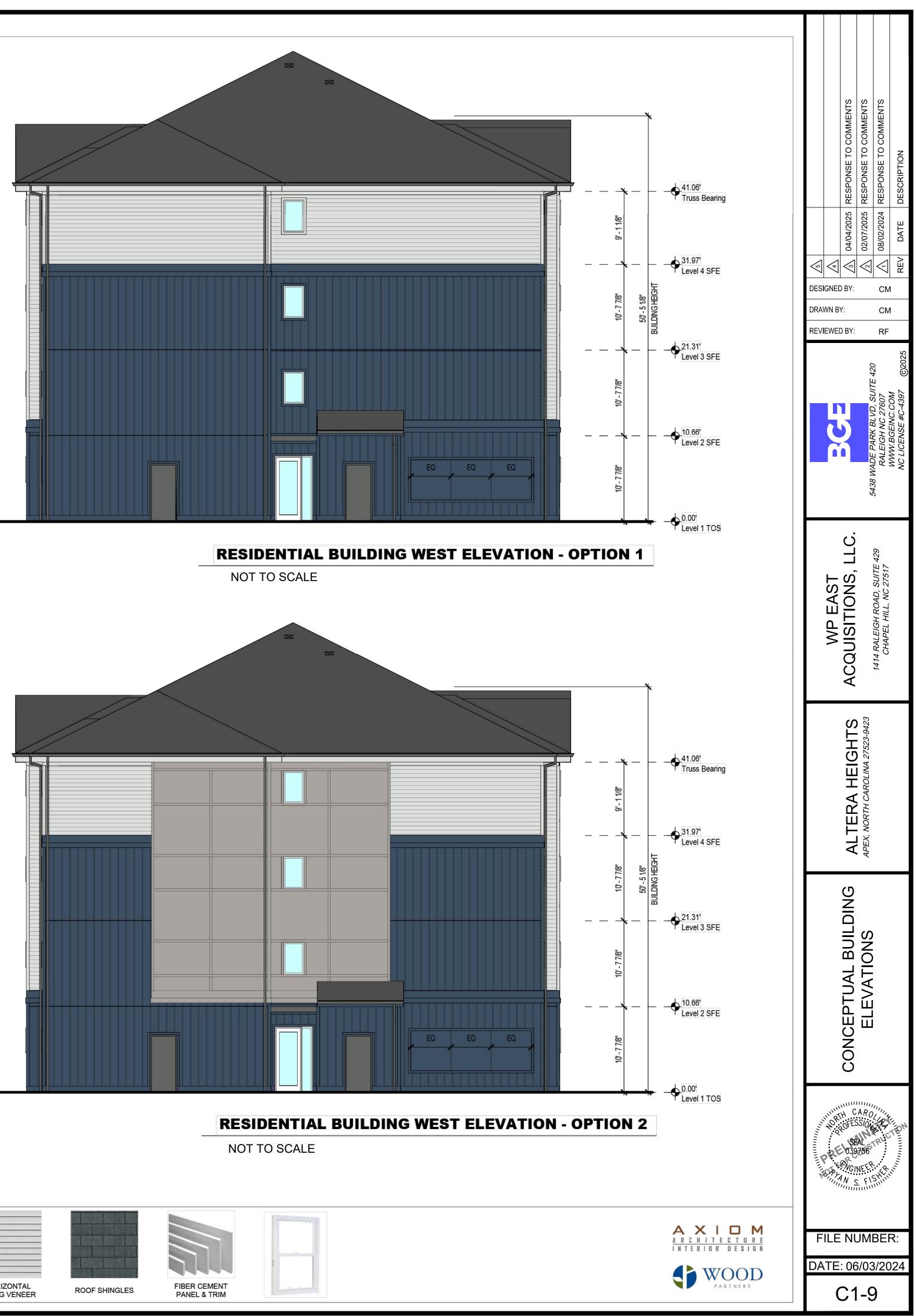


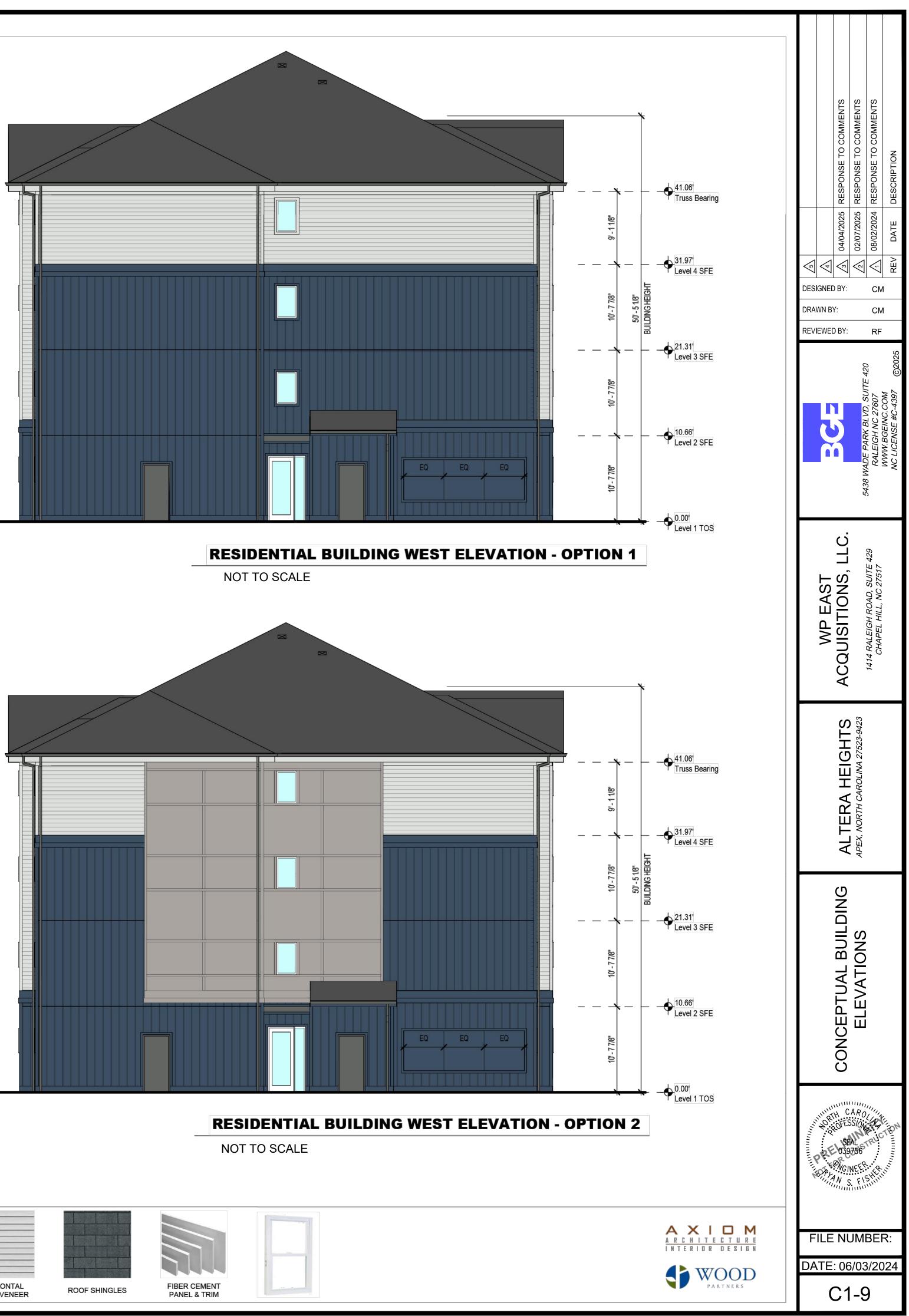
DESIGNEE DRAWN BY REVIEWEE		22/07/2025 RESPONSE TO COMMENTS	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		
WP EAST	ACQUISITIONS, LLC.		1414 RALEIGH ROAD, SUITE 429 CHAPEL HILL, NC 27517		
	ALTERA HEIGHTS APEX, NORTH CAROLINA 27523-9423				
	CONCEPTUAL BUILDING	ELEVATIONS			
IN CONTRACTOR OF THE STATE		A.R.O SSION AL 756 NEF F1	RUC		
FILE DATE (: 06	_	8/20		



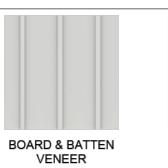








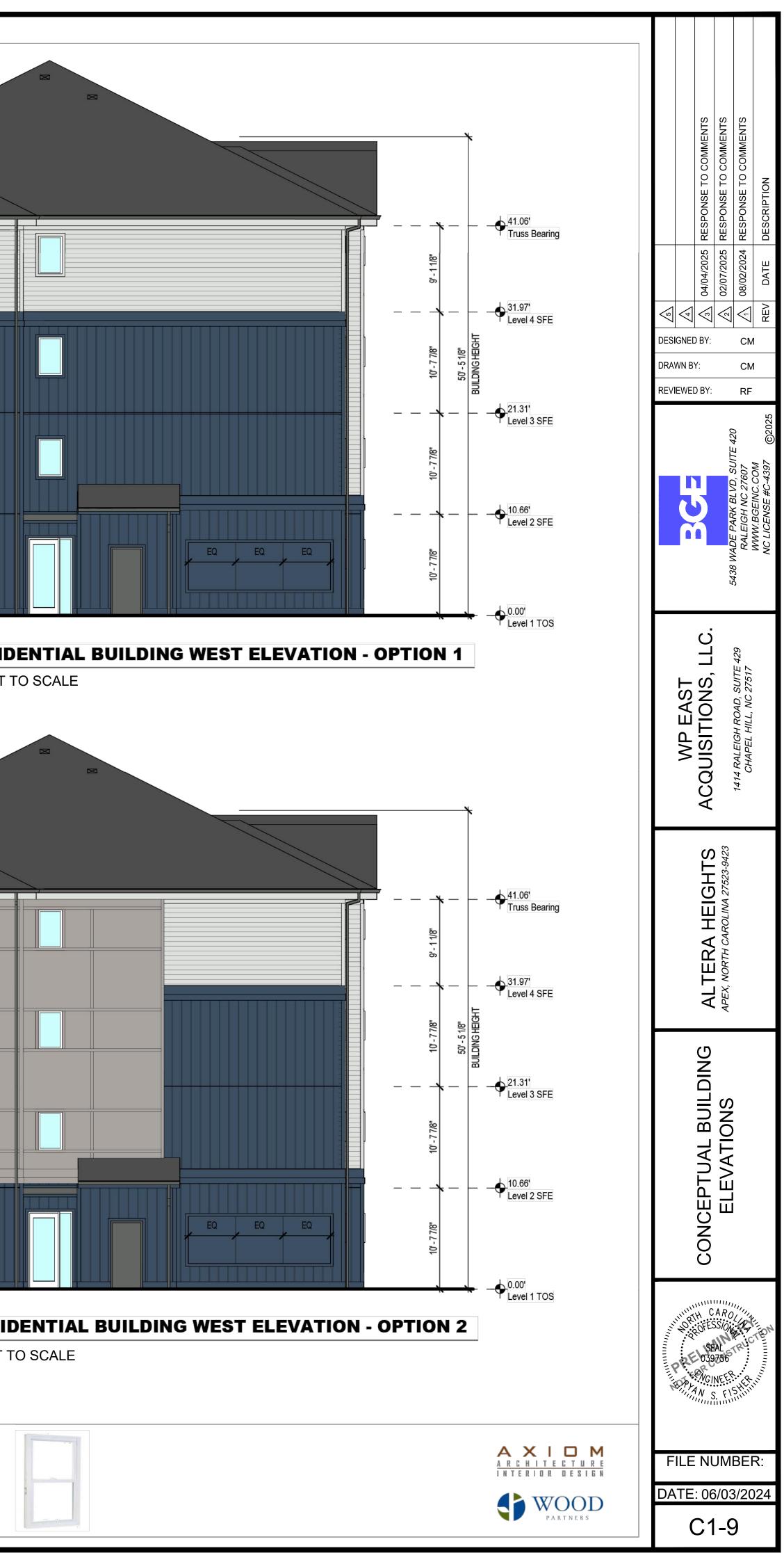








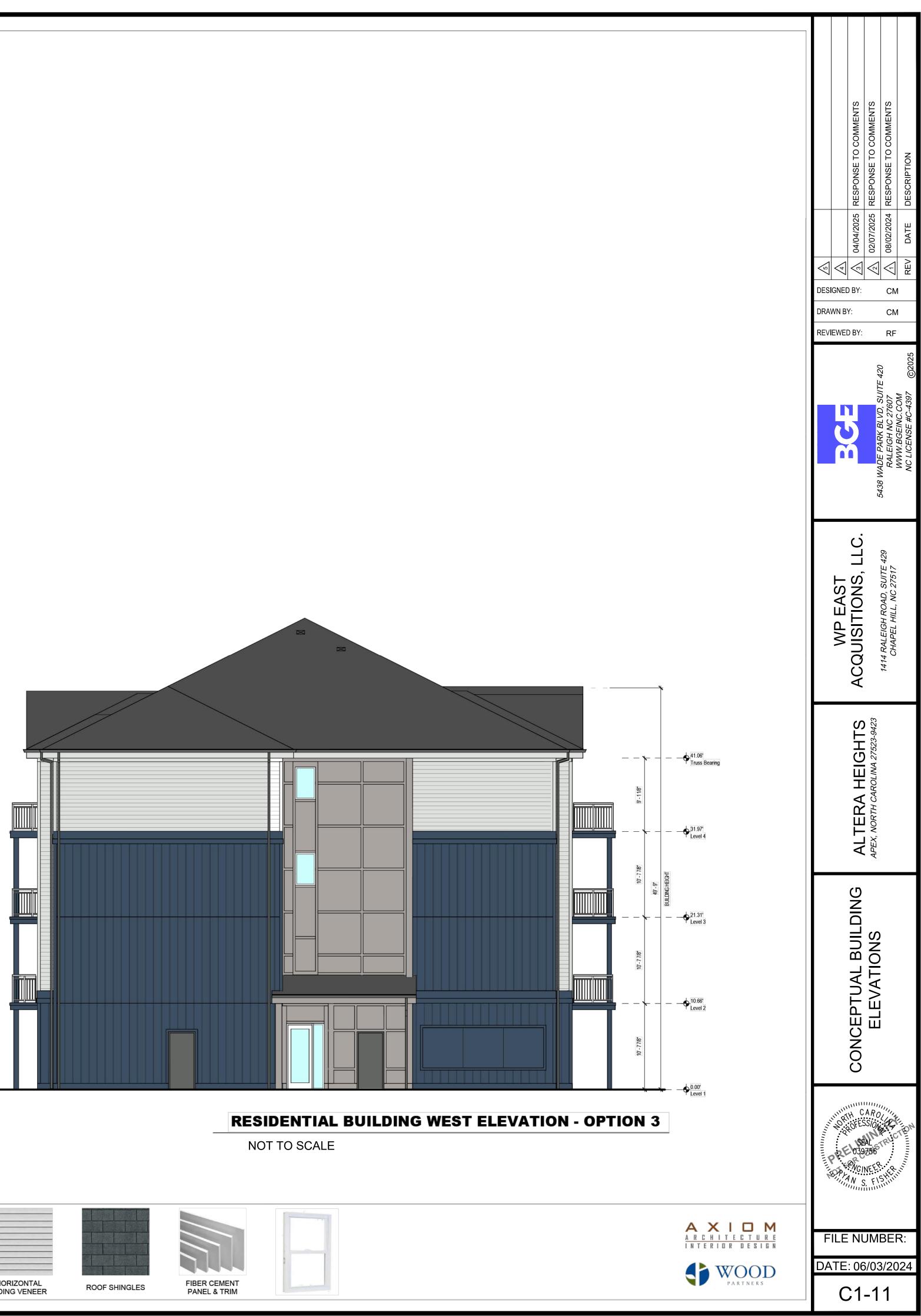


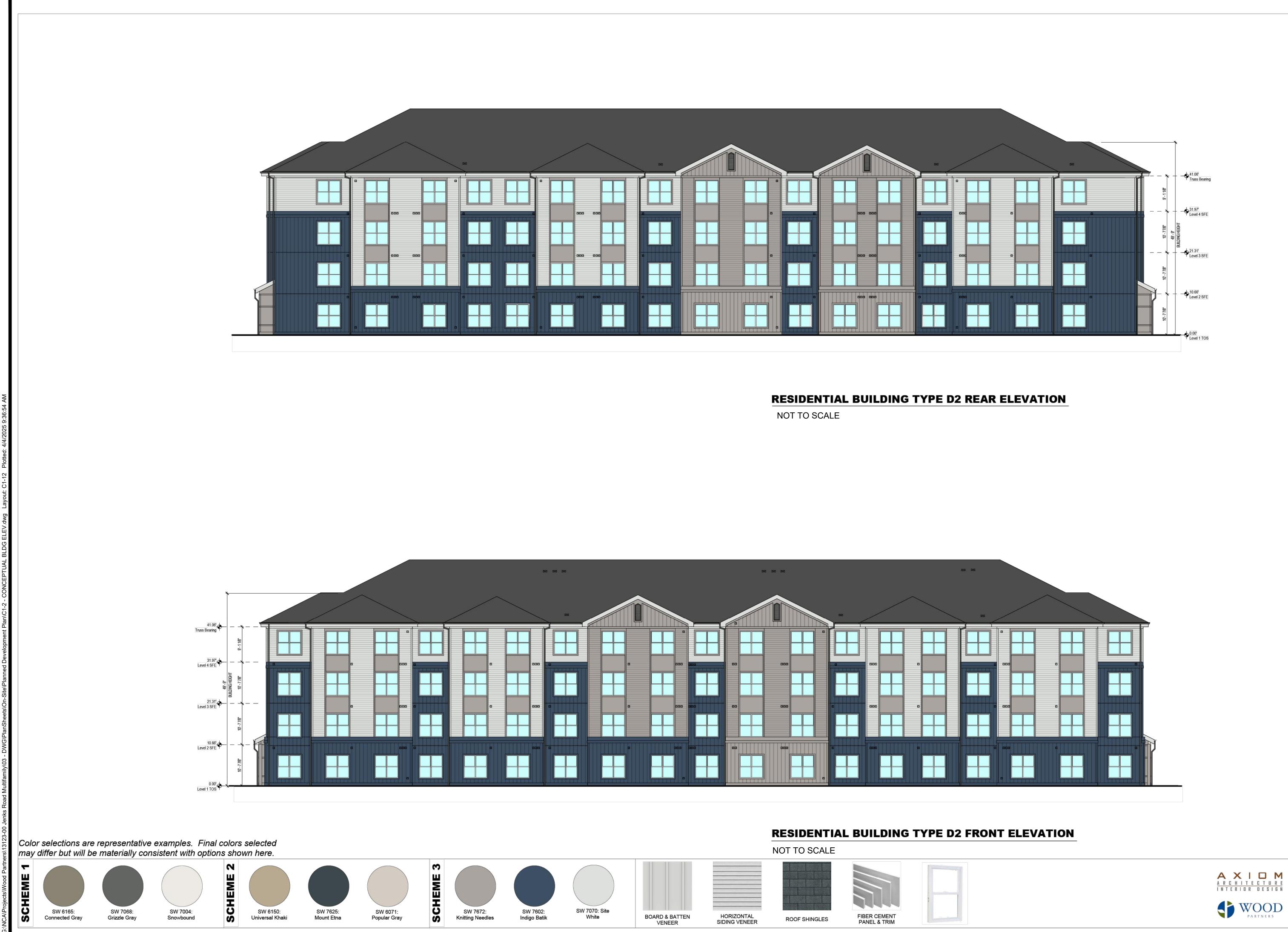


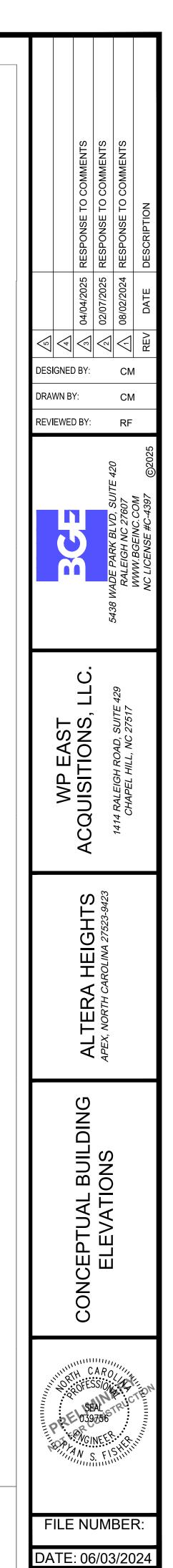
HORIZONTAL SIDING VENEER



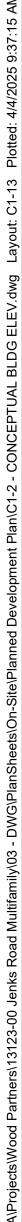


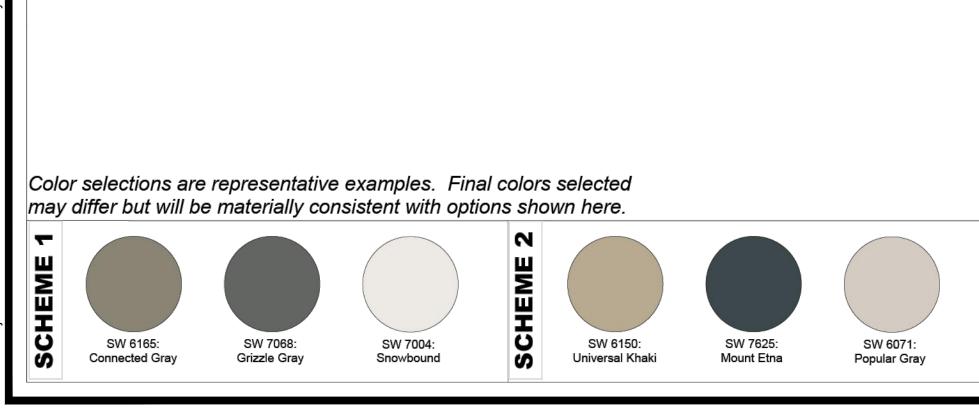






C1-12







RESIDENTIAL BUILDING TYPE D2 EAST ELEVATION

NOT TO SCALE



RESIDENTIAL BUILDING TYPE D2 WEST ELEVATION

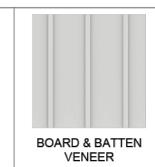
NOT TO SCALE



3

SCHEME











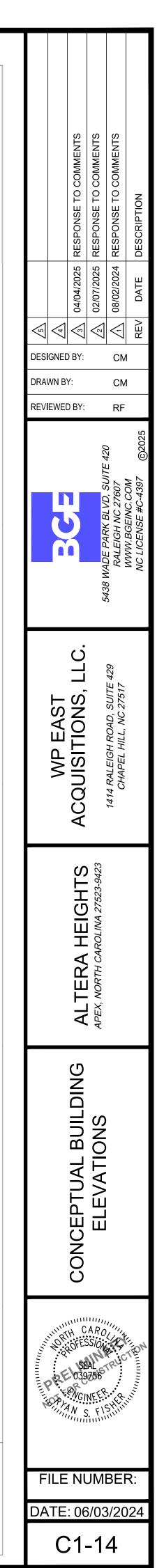


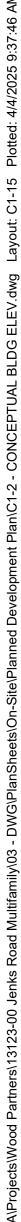
HORIZONTAL SIDING VENEER

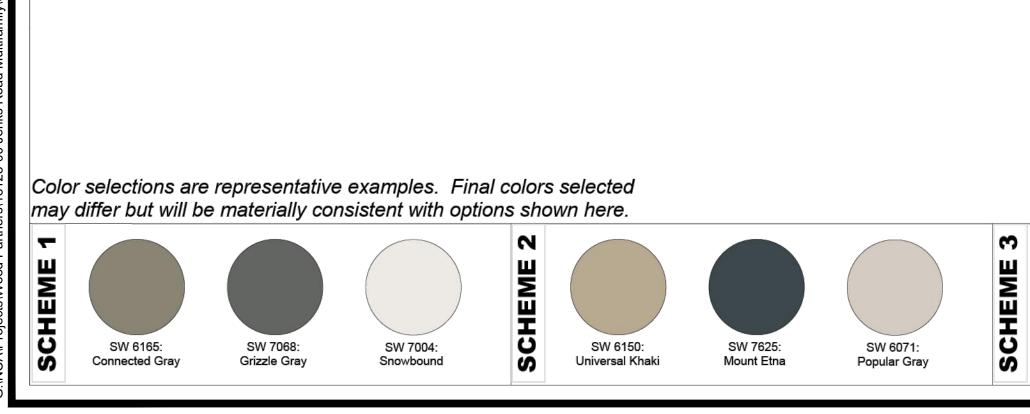
Image: Second constraints Image: Second constraints Image: Second constraints Image: Second constraints	2 02/07/2025 RESPONSE TO COMMENTS	S S OB/02/2024 RESPONSE TO COMMENTS			
REVIEWED BY:		RALEIGH NC 27607 B	WWWW.BGEINC.COM NC LICENSE #C-4397 ©2025		
WP EAST ACQUISITIONS, LLC.	WP EAST ACQUISITIONS, LLC. 1414 RALEIGH ROAD, SUITE 429 CHAPEL HILL, NC 27517				
ALTERA HEIGHTS APEX, NORTH CAROLINA 27523-9423					
CONCEPTUAL BUILDING	ELEVATIONS				
SEAL SEAL SEAL SEAL SEAL SEAL SEAL SEAL					
FILE NU	JMI	BEI	२ :		













RESIDENTIAL BUILDING TYPE D2 W/ BALCONIES EAST ELEVATION NOT TO SCALE



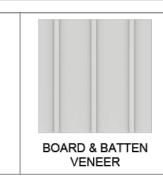
RESIDENTIAL BUILDING TYPE D2 W/ BALCONIES WEST ELEVATION

99809: \$10" SC'AQ"E



3





HORIZONTAL SIDING VENEER

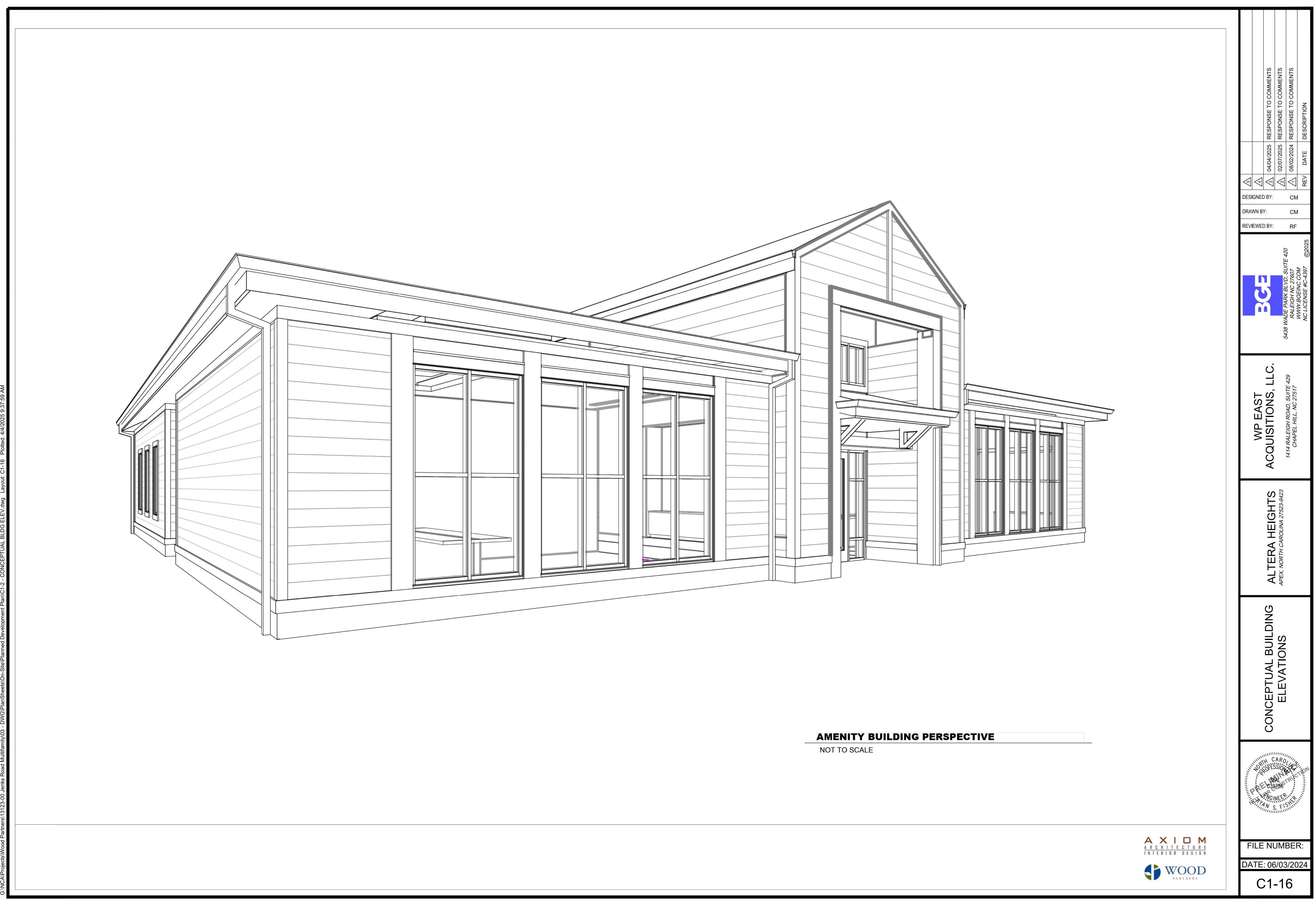






	04/04/2025 RESPONSE TO COMMENTS	02/07/2025 RESPONSE TO COMMENTS	08/02/2024 RESPONSE TO COMMENTS	DESCRIPTION
	1/04/202	2/07/202	3/02/202	DATE
<	04 3 04	202	30 🕂	REV
DESIGNED BY: CM				
DRAWN BY: CM				I
REVIEW		RF		
5438 WADE PARK BL VD, SUITE 420 RALEIGH NC 27607 WWW.BGEINC.COM NC LICENSE #C-4397 ©2025				
WP EAST ACQUISITIONS, LLC. 1414 RALEIGH ROAD, SUITE 429 CHAPEL HILL, NC 27517				
ALTERA HEIGHTS APEX, NORTH CAROLINA 27523-9423				
CONCEPTUAL BUILDING ELEVATIONS				
SEAL SEAL SEAL SEAL SEAL SEAL SEAL SEAL				
FILE NUMBER:				
FIL	E NU	JIVII		≺ :
	.E NI E: 06	_		









Traffic Impact Analysis

Jenks at Wimberly Residential Apex, NC

Prepared for: Wood Partners

© Kimley-Horn and Associates, Inc. 2024

Traffic Impact Analysis for

Jenks at Wimberly Residential Apex, North Carolina

Prepared for:

Wood Partners Raleigh, North Carolina

Prepared by:

Kimley-Horn and Associates, Inc. NC License #F-0102 300 S. Main Street, Suite 212 Holly Springs, NC 27540 (919) 677-2000

> May 2024 012095049



This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Executive Summary

Kimley-Horn and Associates has prepared a Traffic Impact Analysis (TIA) for the proposed Jenks at Wimberly Residential development, which will be located generally northwest of the Jenks Road – Wimberly Road intersection in Apex, North Carolina. As currently envisioned the project is expected to include approximately 300 mid-rise multifamily dwelling units and accessed via driveways along Wimberly Road, and project build-out is anticipated in 2027.

This report presents trip generation, distribution, traffic analyses, and recommendations for transportation improvements required to meet anticipated project traffic demands. This report examines the existing (2024) traffic condition, the projected (2027) background traffic condition, and the projected (2027) build-out traffic condition.

Study Intersections

The study area for this development included the following intersections:

- US 64 Business Westbound at Jenks Road
- US 64 Business Eastbound at U-Turn West of Jenks Road
- Jenks Road at Wimberly Road
- Wimberly Road at White Oak Pond Road/North Site Driveway
- Wimberly Road at Retreat at Preserve at White Oak Driveway/South Site Driveway

Existing Traffic Data

Weekday AM (7:00 to 9:00 AM) and PM (4:00 to 6:00 PM) peak hour turning movement counts were collected at the existing study intersections in April 2024 while Wake County Public Schools were in session.

Future No-Build Traffic Volumes

To calculate projected (2027) background traffic volumes, a 2% annual growth rate was applied to the existing traffic up to the study year 2027 and site traffic from seven developments in the study area was included in this analysis as background traffic.

Trip Generation

The traffic generation potential of the proposed development was determined using the traffic generation data published in the ITE *Trip Generation Manual*. As shown in <u>Table ES-1</u>, the development has the potential to generate 1,386 new trips on a typical weekday, with 120 trips during the AM peak hour and 117 trips during the PM peak hour.

Table ES-1 ITE Traffic Generation (Vehicles)							
Land Use	Land Use	AM Peak Hour PM Peak Hour					
Code			,	In	Out	In	Out
221	Multifamily Housing (Mid-Rise)	300	d.u.	28	92	71	46

Capacity Analyses

Capacity analyses were performed using Synchro Version 12 software. <u>Table ES-2</u> summarizes the operation of the study intersections for the AM and PM peak hour traffic conditions. Note that minor-street approach delays were reported from SimTraffic per NCDOT guidance at the RCI left-over (US 64 WB @ Jenks Road) and for consistency at other study intersections/scenarios.

Table ES-2 Level-of-Service Summary				
Condition	AM Peak-Hour LOS (Delay)	PM Peak-Hour LOS (Delay)		
US 64 Business	Westbound at Jenks Roa	d		
Existing (2024) Traffic – Unsignalized	SB – B (12.4) EBL – C (16.0)	SB – D (32.5) EBL – C (21.3)		
Projected (2027) Background Traffic – Signalized by Others	D (45.1)	D (36.1)		
Projected (2027) Build-out Traffic – Signalized by Others	D (54.6)	D (39.2)		
US 64 Business Eastbou	und at U-Turn West of Je	nks Road		
Existing (2024) Traffic – Unsignalized	WBU – C (21.9)	WBU – C (16.6)		
Projected (2027) Background Traffic – Signalized by Others	B (18.2)	B (17.5)		
Projected (2027) Build-out Traffic – Signalized by Others	C (20.8)	B (18.5)		
Jenks Road at Wi	imberly Road (Unsignaliz	zed)		
Existing (2024) Traffic	NB – A (3.6) SB – A (4.0)	NB – A (4.6) SB – A (5.1)		
Projected (2027) Background Traffic	NB – A (5.3) SB – A (7.1)	NB – A (6.4) SB – A (9.5)		
Projected (2027) Build-out Traffic	NB – A (6.2) SB – A (9.9)	NB – A (8.4) SB – C (15.6)		
Wimberly Road at White Oak Po	nd Road/North Site Drive	eway (Unsignalized)		
Existing (2024) Traffic	SB – A (4.1)	SB – A (6.4)		
Projected (2027) Background Traffic	SB – A (4.6)	SB – A (7.2)		
Projected (2027) Build-out Traffic	NB – A (4.0) SB – A (5.0)	NB – A (7.3) SB – A (7.2)		
Wimberly Road at Retreat at Preserv	ve Driveway/South Site D	riveway (Unsignalized)		
Projected (2027) Background Traffic	WB – A (6.1)	WB – A (5.5)		
Projected (2027) Build-out Traffic	EB – A (4.3) WB – A (6.6)	EB – A (7.1) WB – A (6.6)		

Improvements

Background Improvements by Others

The following improvements are committed as part of other projects in the study area:

US 64 Business Westbound at Jenks Road (by Sweetwater Commercial):

• Install a traffic signal

US 64 Business at U-Turn West of Jenks Road (by Sweetwater Commercial):

• Install a traffic signal

Wimberly Road at Retreat at Preserve Driveway (by Retreat at Preserve at White Oak):

• Construct the Retreat at Preserve Driveway with one ingress lane and one egress lane

While the traffic signals along US 64 Business have been installed, those were not activated at the time of the traffic counts and therefore were only included in the future conditions.

Recommended Improvements by Development

The following improvements are recommended as part of the Jenks at Wimberly Residential development:

Wimberly Road at White Oak Pond Road/North Site Driveway:

• Construct the North Site Driveway with one ingress lane and one egress lane

Wimberly Road at Retreat at Preserve Driveway/South Site Driveway:

- Construct the South Site Driveway with one ingress lane and one egress lane
- Construct an exclusive northbound left-turn lane on Wimberly Road with 50 feet of storage and appropriate tapers

Figures ES-1 shows the committed and recommended roadway laneage at project build-out.

Conclusions

Analyses indicate that with the committed and recommended improvements in place, all of the study intersections are expected to operate acceptably at project build-out with only relatively minimal impacts associated with the addition of project site traffic. Further, preliminary traffic signal warrant analyses indicate that projected traffic volumes are unlikely to meet MUTCD volume-based traffic signal warrant thresholds at the intersection of Jenks Road at Wimberly Road. Therefore, no additional improvements are recommended to be performed as part of this project.

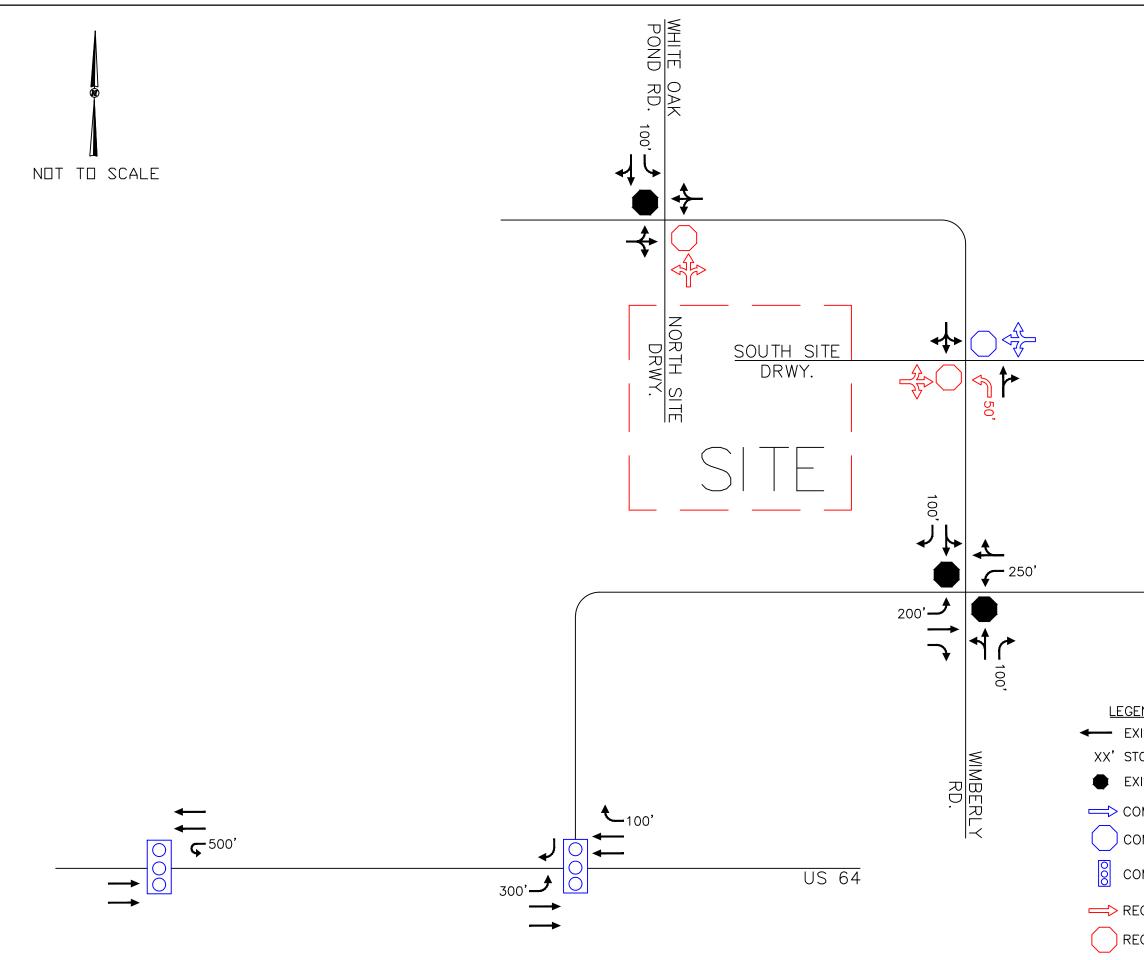


	FIGURE ES-1	PREPARED. REUSE
PRESERVE AT WHITE OAK DRWY.	COMMITTED AND RECOMMENDED ROADWAY LANEAGE	THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.
JENKS RD. RD. KISTING LANE FORAGE LENGTH KISTING STOP SIGN	JENKS AT WIMBERLY RESIDENTIAL APEX, NC TRAFFIC IMPACT ANALYSIS	CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SER DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-
DMMITTED LANE (BY OTHERS) DMMITTED STOP SIGN (BY OTHERS) DMMITTED TRAFFIC SIGNAL (BY OTHERS) ECOMMENDED LANE ECOMMENDED STOP SIGN	Kimley» Horn	THIS DOCUMENT, TOGETHER WITH THE OF AND IMPROPER RELANCE ON THIS

TABLE OF CONTENTS

Page No.

1.0	INTE	INTRODUCTION1				
2.0	INVI	ENTORY				
	2.1 2.2	STUDY AREA2EXISTING CONDITIONS2				
3.0	TRA	FFIC GENERATION				
4.0	SITE	TRAFFIC DISTRIBUTION7				
5.0	PRO	JECTED TRAFFIC VOLUMES9				
	5.1	EXISTING TRAFFIC				
	5.2	HISTORIC GROWTH TRAFFIC				
	5.3	APPROVED DEVELOPMENT TRAFFIC				
	5.4	BACKGROUND TRAFFIC				
	5.5	SITE TRAFFIC				
	5.6	BUILD-OUT TRAFFIC				
6.0	CAP	ACITY ANALYSIS 15				
	6.1	US 64 BUSINESS WESTBOUND AT JENKS ROAD16				
	6.2	US 64 BUSINESS EASTBOUND AT U-TURN WEST OF JENKS ROAD				
	6.3	JENKS ROAD AT WIMBERLY ROAD				
	6.4	WIMBERLY ROAD AT WHITE OAK POND ROAD/NORTH SITE DRIVEWAY				
	6.5	WIMBERLY ROAD AT RETREAT AT PRESERVE DRIVEWAY/SOUTH SITE DRIVEWAY 20				
7.0	REC	OMMENDATIONS				
		APPENDICES				

- A. APPROVED MEMORANDUM OF UNDERSTANDING
- B. TRAFFIC COUNT DATA
- C. APPROVED DEVELOPMENT DATA
- D. TRIP GENERATION
- E. INTERSECTION SPREADSHEETS
- F. SYNCHRO OUTPUT: EXISTING (2024)
- G. SYNCHRO OUTPUT: BACKGROUND (2027)
- H. SYNCHRO OUTPUT: BUILD-OUT (2027)
- I. SIMTRAFFIC REPORTS
- J. TURN LANE WARRANTS
- K. SIGNAL PLANS

LIST OF TABLES

<u>Table No.</u>	<u>Title</u>	Page No.
Table 2.1	Study Area Roadway Network Summary	2
Table 3.1	ITE Traffic Generation (Vehicles)	6
Table 5.1	Adjacent Development Summary	
Table 6.0	Level-of-Service Control Delay Thresholds	15
Table 6.1	Level-of-Service: US 64 Business at Jenks Rd./Richardson Rd	16
Table 6.2	Level-of-Service: US 64 Business at U-Turn West of Jenks Rd	17
Table 6.3	Level-of-Service: Jenks Rd. at Wimberly Rd	
Table 6.4	Level-of-Service: Wimberly Rd. at White Oak Pond Rd./North Site	Drwy19
Table 6.5	Level-of-Service: Wimberly Rd. at Retreat at Preserve/South Site D	Drwy 20

LIST OF FIGURES

Figure No.	Title Page No.
Figure 2.1	Site Location
Figure 2.2	Proposed Site Plan
Figure 2.3	Existing Roadway Laneage
Figure 4.1	Site Traffic Distribution & Percent Assignment
Figure 5.1	Existing and Projected (2027) AM Peak Hour Background Traffic Vols 11
Figure 5.2	Existing and Projected (2027) PM Peak Hour Background Traffic Vols 12
Figure 5.3	Projected (2027) Build-out AM Peak Hour Traffic Volumes
Figure 5.4	Projected (2027) Build-out PM Peak Hour Traffic Volumes14
Figure 7.1	Committed and Recommended Roadway Laneage

1.0 Introduction

Kimley-Horn and Associates has prepared a Traffic Impact Analysis (TIA) for the proposed Jenks at Wimberly Residential development, which will be located generally northwest of the Jenks Road – Wimberly Road intersection in Apex, North Carolina. As currently envisioned the project is expected to include approximately 300 mid-rise multifamily dwelling units and accessed via driveways along Wimberly Road, and project build-out is anticipated in 2027.

This report presents trip generation, distribution, traffic analyses, and recommendations for transportation improvements required to meet anticipated project traffic demands. This report examines the existing (2024) traffic condition, the projected (2027) background traffic condition, and the projected (2027) build-out traffic condition.

The Town of Apex and the North Carolina Department of Transportation (NCDOT) provided background information and were consulted regarding the elements to be covered in this analysis. The approved Memorandum of Understanding is included in the Appendix of this report.

2.0 Inventory

2.1 Study Area

The study area for this development includes the following intersections:

- US 64 Business Westbound at Jenks Road
- US 64 Business Eastbound at U-Turn West of Jenks Road
- Jenks Road at Wimberly Road
- Wimberly Road at White Oak Pond Road/North Site Driveway
- Wimberly Road at Retreat at Preserve at White Oak Driveway/South Site Driveway

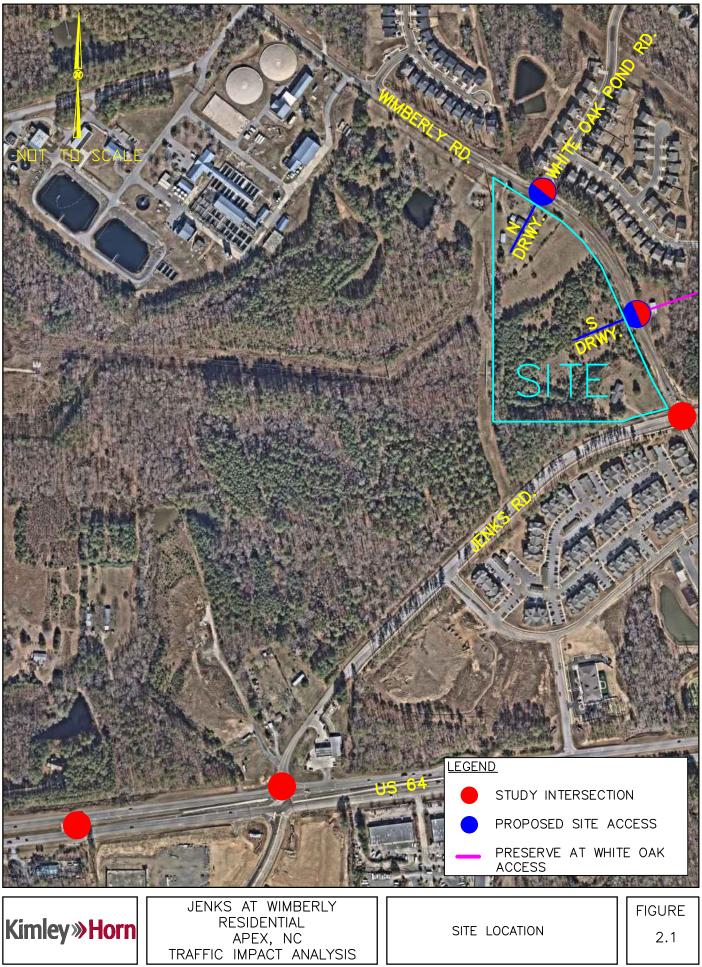
This site location is shown on Figure 2.1, and the conceptual site plan is shown on Figure 2.2.

2.2 Existing Conditions

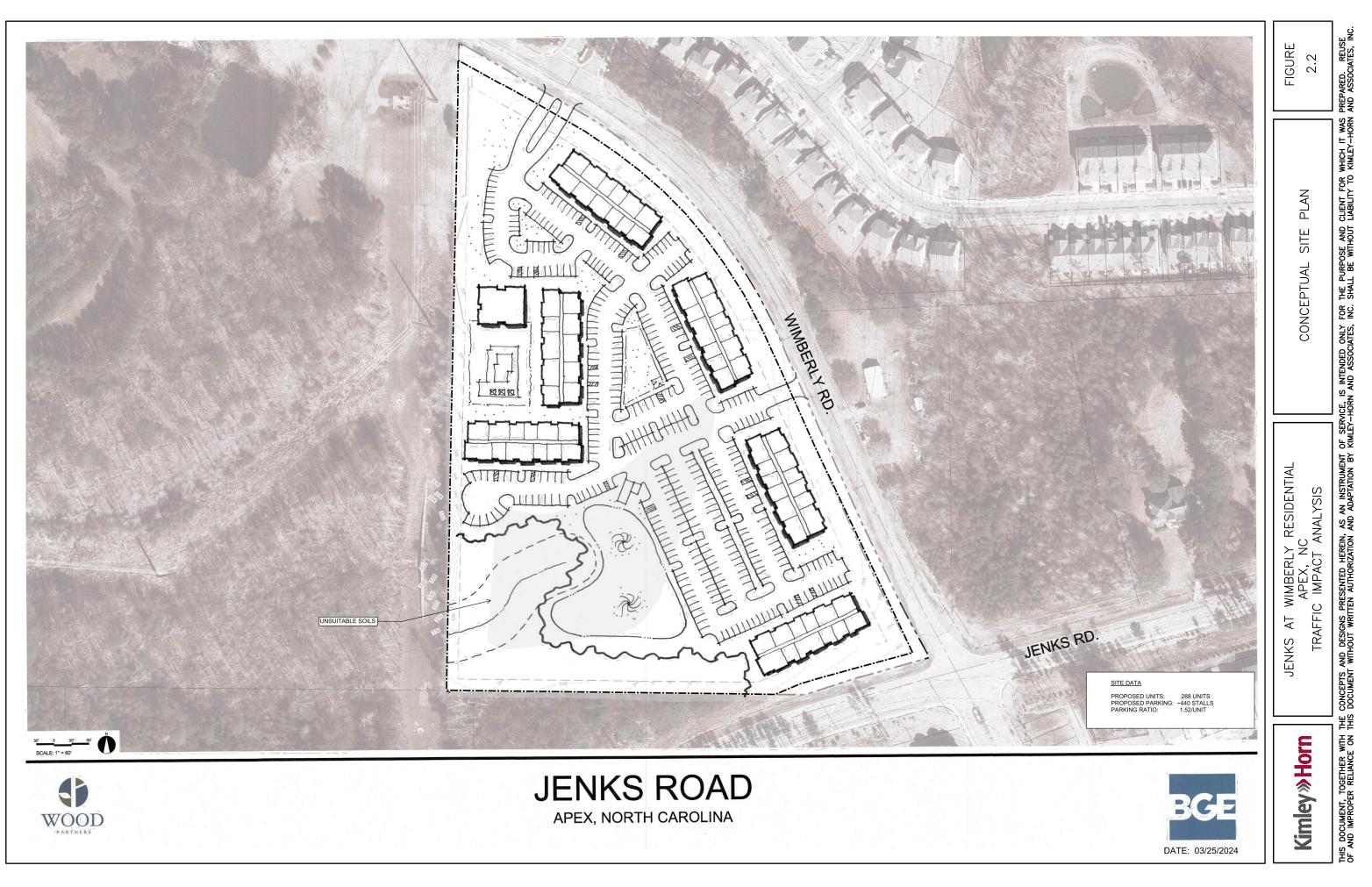
The proposed development is located generally northwest of the Jenks Road – Wimberly Road intersection. Roadway network elements (speed limit, estimated average daily traffic volume, existing configuration, and Town of Apex Thoroughfare and Collector Street Plan designation) of study area roadways are summarized in <u>Table 2.1</u>.

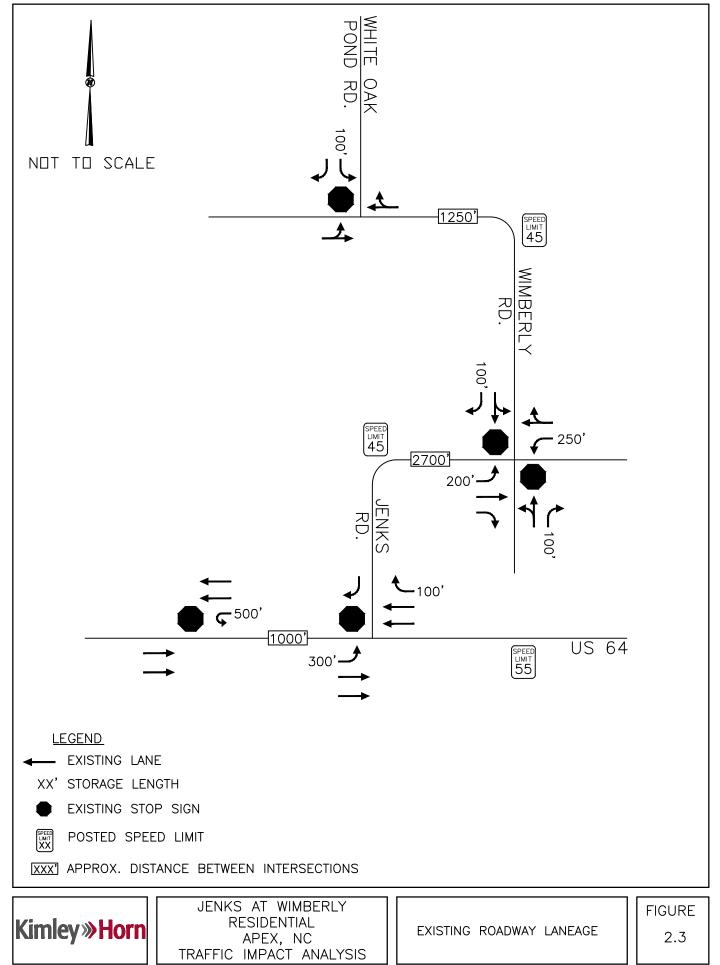
Table 2.1 Roadway Network Summary				
Roadway	Speed Limit	Estimated ADT Volume	Typical Existing Configuration	Future Section per Thoroughfare & Collector Street Plan
US 64 Business	55 mph	15,500 vpd east of Jenks Road	4-Lane Divided	6-Lane Freeway
Jenks Road	45 mph	3,400 vpd north of US 64 Business	3-Lane Undivided	East of Wimberly: 3-Lane Undivided Thoroughfare <u>West of Wimberly</u> : 4-Lane Med. Divided Thoroughfare
Wimberly Road	45 mph	2,200 vpd north of Jenks Road	2-Lane Undivided	2-Lane Thoroughfare

Figure 2.3 shows the existing study intersection laneage.



THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CUENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.





THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

3.0 Traffic Generation

The traffic generation potential of the proposed development was determined using the traffic generation data published in *Trip Generation* (Institute of Transportation Engineers, Eleventh Edition, 2021). As currently envisioned, the development is expected to include approximately 300 mid-rise multifamily dwelling units.

As shown in <u>Table 3.1</u>, the development has the potential to generate 1,386 new trips on a typical weekday, with 120 new trips during the AM peak hour and 117 new trips during the PM peak hour.

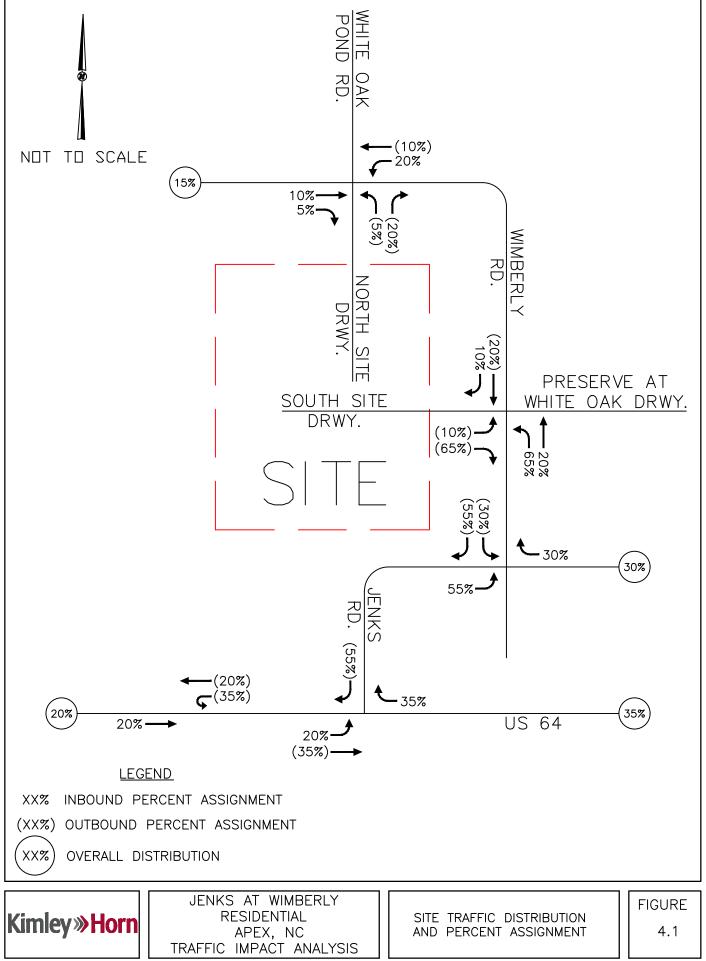
Table 3.1 ITE Traffic Generation (Vehicles)							
Land Use	Land Use	AM Peak Hour PM Peak			k Hour		
Code	Lanu Use	Inter	Intensity In C		Out	In	Out
221	Multifamily Housing (Mid-Rise)	300	d.u.	28	92	71	46

Detailed trip generation calculations are included in the Appendix of this report.

4.0 Site Traffic Distribution

The projected site-generated trips were assigned to the surrounding roadway network based on a review of surrounding land uses and discussions with NCDOT and the Town. The following overall distribution, depicted on **Figure 4.1**, was used for residential net new site trips:

- 35% to/from the east on US 64 Business
- 30% to/from the east on Jenks Road
- 20% to/from the west on US 64 Business
- 15% to/from the northwest on Wimberly Road



THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

5.0 Projected Traffic Volumes

5.1 Existing Traffic

AM peak hour (7:00 to 9:00 AM) and PM peak hour (4:00 to 6:00 PM) turning movement counts were collected at the following intersections while Wake County Public Schools were in session:

٠	US 64 Business Westbound at Jenks Road/Richardson Road	April 25, 2024
٠	US 64 Business Eastbound at U-Turn West of Jenks Road	April 25, 2024
•	Jenks Road & Wimberly Road	April 25, 2024
•	Wimberly Road at White Oak Pond Road	April 25, 2024

The existing AM and PM peak-hour traffic volumes are shown on **Figures 5.1 and 5.2**, respectively. Traffic count data is included in the Appendix.

5.2 Historic Growth Traffic

Historic growth traffic is the increase in traffic due to usage increases and non-specific growth throughout the area. Based on discussions with the Town of Apex, a 2% annual growth rate was applied to the existing traffic to calculate background traffic volumes expected in 2027, though no growth was applied into/out of the White Oak Pond Road or the southern leg of Wimberly Road (the Westford development driveway) since development on those roadways is either complete or generally accounted for in approved development traffic.

5.3 Approved Development Traffic

Approved development traffic is generated by approved, but not yet constructed, projects in the vicinity of the proposed project. Based on discussions with NCDOT and Town of Apex staff, site traffic from seven (7) approved developments were included in the analysis as background traffic. <u>Table 5.1</u> below summarizes the proposed land uses and occupancy data of these approved developments. Note that site trips were based on data from the TIAs prepared for the respective properties even if actual development plans propose less traffic-intense developments.

Table 5.1 Area Approved Development Summary				
Project Name & Location	Proposed Land Uses	Status at Time of Counts	Volume Data Source	
Sweetwater Commercial: South of US 64 along Richardson Road	50k SF office, 200k SF general retail, 7k SF sit-down restaurant space, 3k SF fast- food space, 4-lane bank	0% occupied	Sweetwater Development (RKA, 10/16)	
Park at Wimberly: North of Wimberly Road along White Oak Pond Road	70 single-family homes and 50 townhomes	50% occupied	Wolfe Properties PUD TIA (Mott Macdonald, 11/19)	
Retreat at Preserve: Northeast of Jenks Road at Wimberly Road.	80 low-rise multifamily, 14k SF daycare, 8k SF MOB	0% occupied	Retreat at Preserve at White Oak TIA (KH, 3/21)	
Westford Commercial: South of Jenks Road between US 64 and Lowell Road	290 low-rise multifamily, 120-room hotel, 23.5k SF strip retail	0% occupied	Westford Mixed-Use TIA (KH, 4/22)	
Arden at Summit Pines: North of Jenks Road at Lowell Road	163 senior-adult multifamily units and 10k SF strip retail	0% occupied	Arden at Apex TIA (RKA, 12/21)	
Apex Light Industrial: North of US 64, West of Jenks Road	290k SF industrial, 160k SF flex, and 30.8k SF retail	0% occupied	US 64 Light Industrial TIA (VHB, 12/22); Scenario A	
Yellowbridge PUD: South of US 64 and east of Acton Street	59 single-family homes, 83 townhomes, 25k SF retail	0% occupied	Yellow Bridge Res. TIA (Mott Macdonald, 2/22)	

5.4 Background Traffic

Background traffic volumes consisting of existing, historic growth, and approved development traffic are shown on **Figures 5.1 and 5.2** for the AM and PM peak hours, respectively.

5.5 Site Traffic

Traffic from the proposed development was generated and assigned to the adjacent roadway network per the distribution described in *Section 4.0*. AM and PM peak peak hour site traffic volumes are shown on **Figures 5.3 and 5.4**, respectively.

5.6 Build-out Traffic

To obtain the 2027 build-out traffic volumes, the projected site traffic was added to the projected (2027) background traffic. Traffic volume calculations are detailed in intersection spreadsheets in the Appendix of this report. **Figures 5.3 and 5.4** show the peak hour build-out traffic volumes at the study intersections at project build-out in the AM and PM peak hours, respectively.

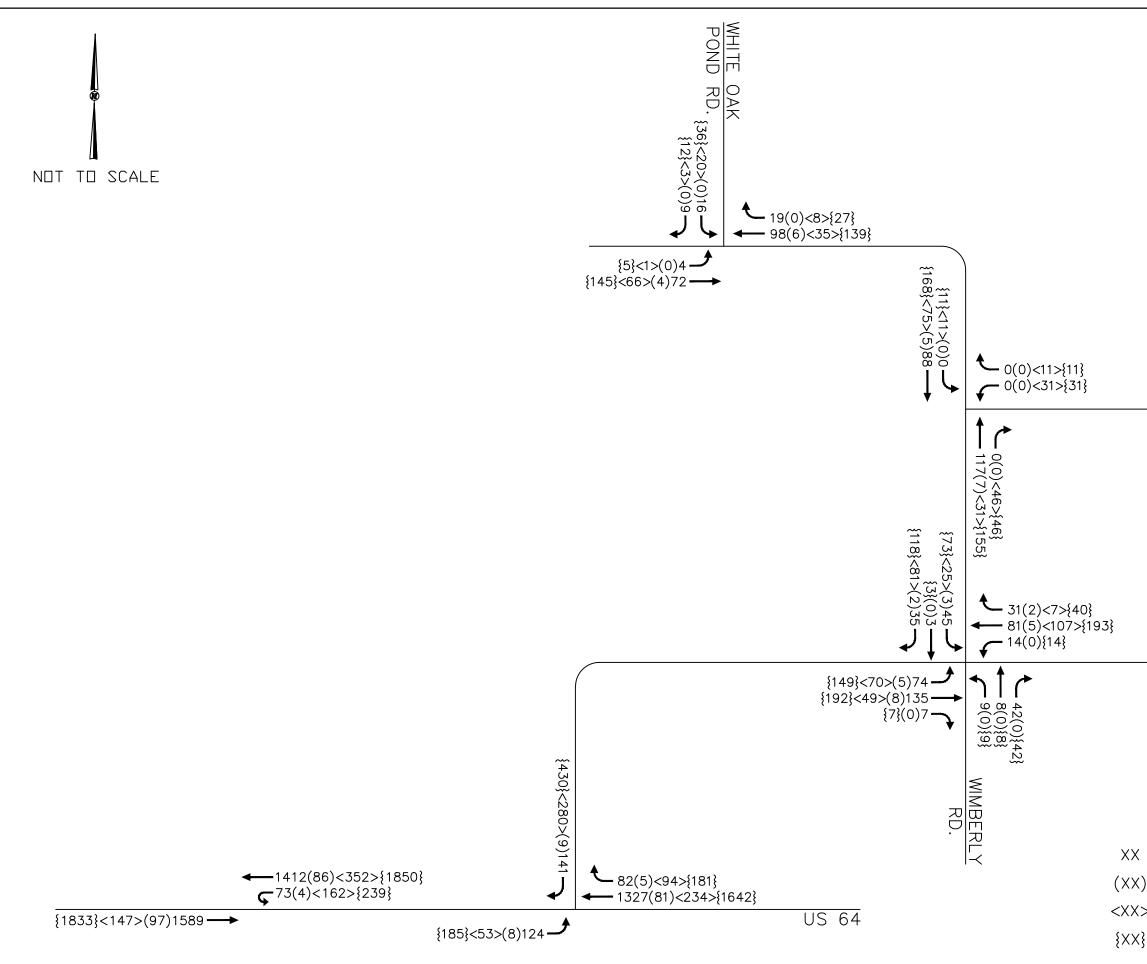
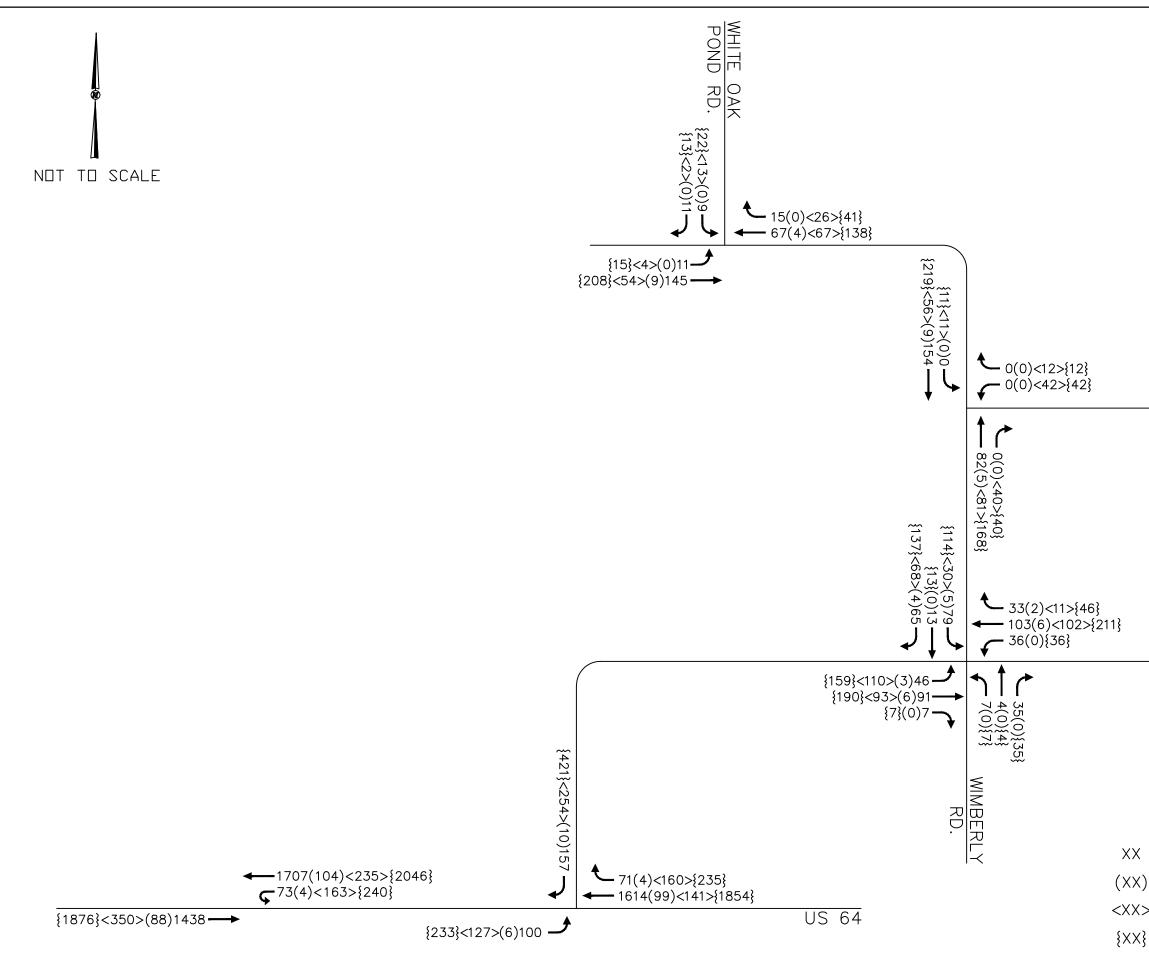
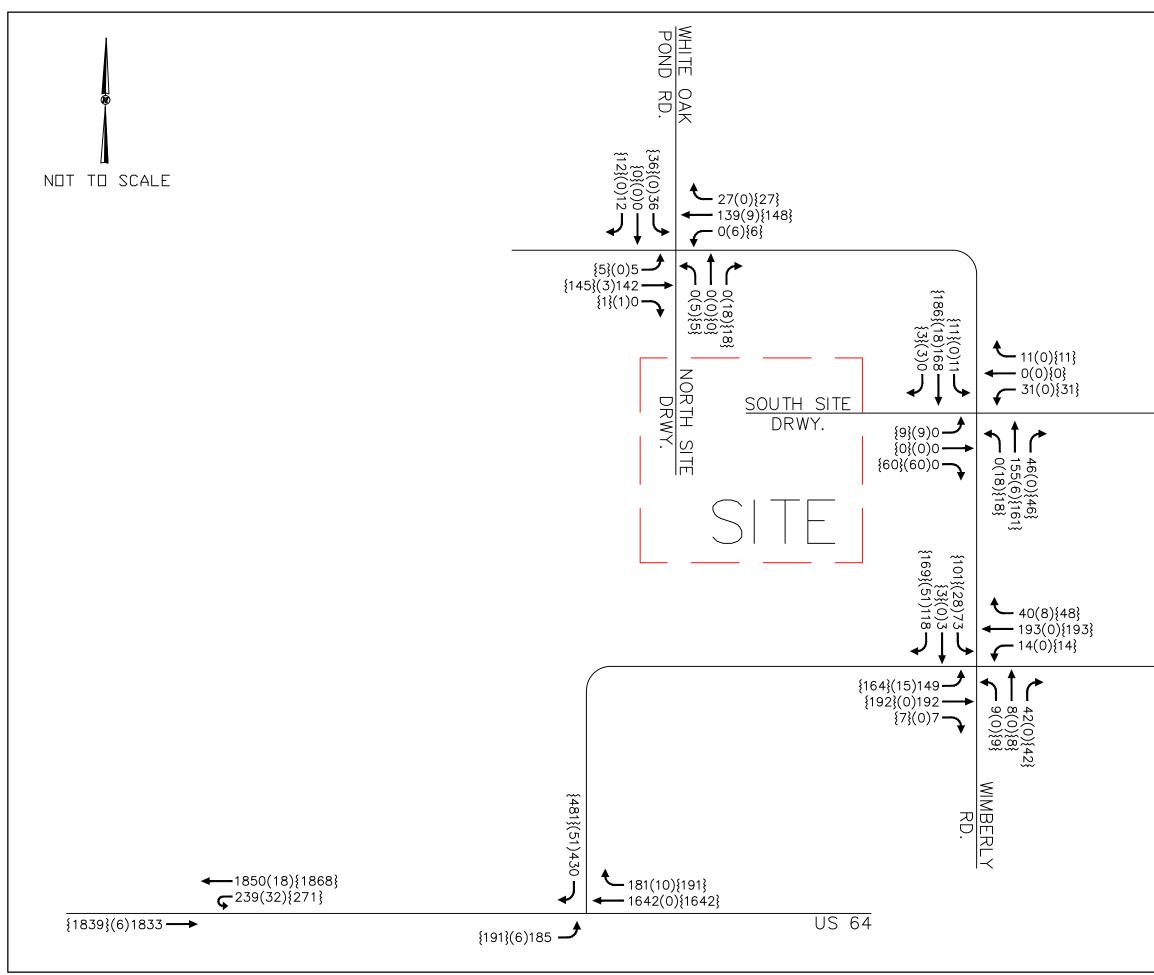


	FIGURE 5.1 MAS PREPARED. REUSE AND ASSOCIATES, INC.
<u>PRESERVE AT</u> WHITE OAK DRWY.	EXISTING AND PROJECTED (2027) BACKGROUND AM PEAK HOUR TRAFFIC VOLUMES . IS INTENDED ONLY FOR THE PURPOSE AND CLIENT FOR WHICH IT W
JENKS RD.	JENKS AT WIMBERLY RESIDENTIAL EXISTING AND PROJECTED (2027) FIGURE JENKS AT WIMBERLY RESIDENTIAL BACKGROUND AM PEAK HOUR 5.1 TRAFFIC IMPACT ANALYSIS TRAFFIC VOLUMES 5.1 This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the duppose and client for which it was prepared. Reuse, inc. shall be without lubility to kimley-horn and associates, inc. shall be without lubility to kimley-horn and associates, inc.
LEGEND EXISTING TRAFFIC BACKGROUND GROWTH APPROVED DEVELOPMENT TRAFFIC TOTAL BACKGROUND TRAFFIC	Kimley » Horn



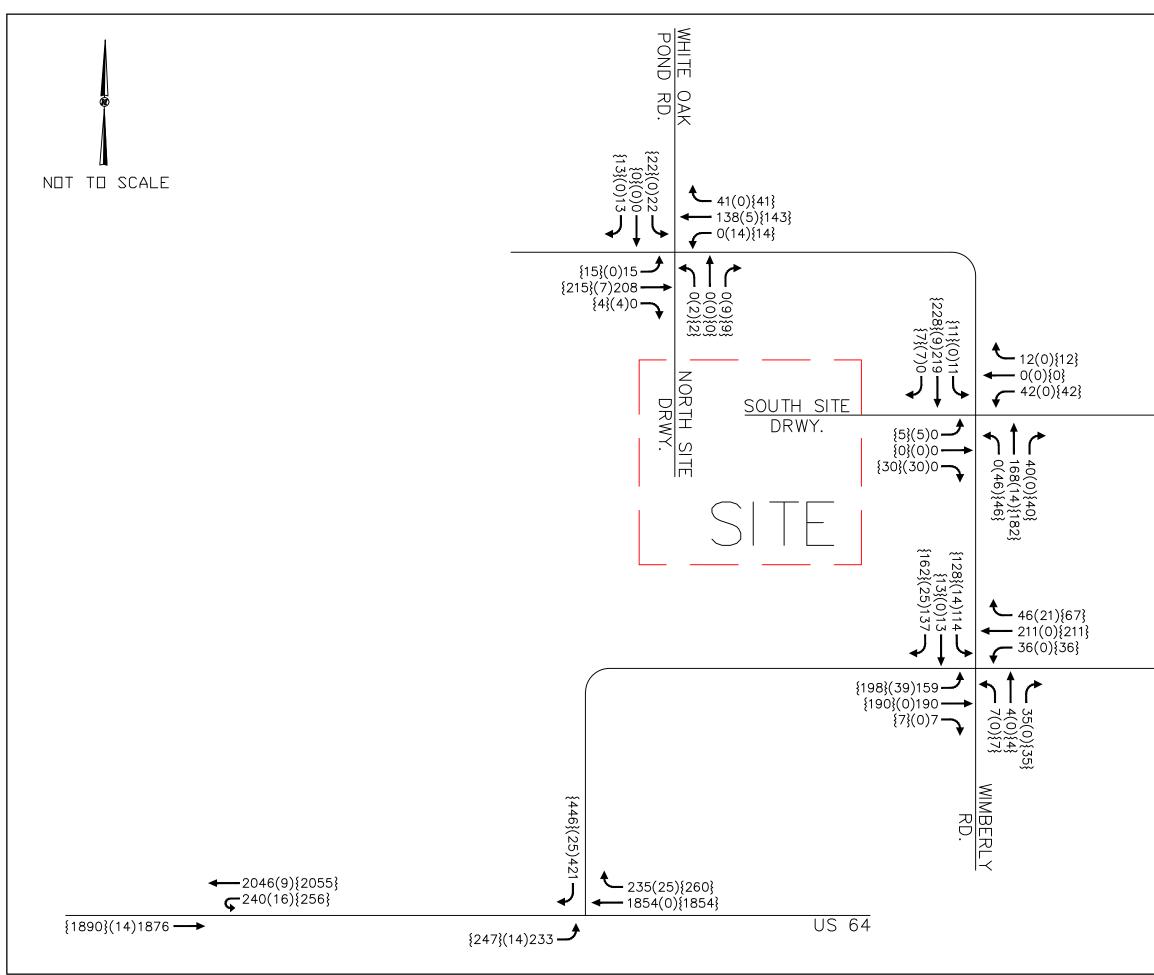
TIA Figures.dwg Т Residential Wimberly Submittals\Figures\Jenks at Report-S ıtial∖T5

		FIGURE 5.2 BREPARED. REUSE
	PRESERVE AT WHITE OAK DRWY.	EXISTING AND PROJECTED (2027) BACKGROUND PM PEAK HOUR TRAFFIC VOLUMES 5. IS INTENDED ONLY FOR THE PURPOSE AND CLIENT FOR WHICH IT WAS BRN AND ASSOCIATES, INC. SHALL BE WITHOUT LUABILITY TO KIMLEY-HORN
	JENKS RD.	JENKS AT WIMBERLY RESIDENTIAL EXISTING AND PROJECTED (2027) FIGURE JENKS AT WIMBERLY RESIDENTIAL BACKGROUND PM PEAK HOUR FIGURE TRAFFIC IMPACT ANALYSIS TRAFFIC VOLUMES 5.2 THIS DOCUMENT. TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE 6.2
) >	LEGEND EXISTING TRAFFIC BACKGROUND GROWTH APPROVED DEVELOPMENT TRAFFIC TOTAL BACKGROUND TRAFFIC	Kimley » Horn



TIA Figures.dwg Т Residential Wimberly Report-Submittals\Figures\Jenks at 1 itial\T5 Wimberly Reside

S PREPARED. REUSE	N, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE IN AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.	AND DESIGNS PRESENTED HEREI WITHOUT WRITTEN AUTHORIZATIO	THIS DOCUMENT, TOGETHER WITH THE CONCEPTS OF AND IMPROPER RELIANCE ON THIS DOCUMENT
FIGURE 5.3	PROJECTED (2027) BUILD-OUT AM PEAK HOUR TRAFFIC VOLUMES	JENKS AT WIMBERLY RESIDENTIAL APEX, NC TRAFFIC IMPACT ANALYSIS	Kimley » Horn
	PRESERVE AT WHITE OAK DRWY.	JENKS RD.	LEGEND XX BACKGROUND TRAFFIC (XX) SITE TRAFFIC {XX} TOTAL BUILD-OUT TRAFFIC



TIA Figures.dwg Т Residential Wimberly Report-Submittals\Figures\Jenks at 1 itial\T5 Wimberly Reside

PREPARED. REUSE AND ASSOCIATES, INC.	N, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE N AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.	THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN	HIS DOCUMENT, TOGETHER WITH THE F AND IMPROPER RELIANCE ON THI
FIGURE 5.4	PROJECTED (2027) BUILD-OUT PM PEAK HOUR TRAFFIC VOLUMES	JENKS AT WIMBERLY RESIDENTIAL APEX, NC TRAFFIC IMPACT ANALYSIS	Kimley » Horn
	PRESERVE AT WHITE OAK DRWY.	JENKS RD.	LEGEND XX BACKGROUND TRAFFIC (XX) SITE TRAFFIC {XX} TOTAL BUILD-OUT TRAFFIC

6.0 Capacity Analysis

Capacity analyses (see Appendix) were performed for the AM and PM peak hours for the existing (2024) traffic condition and the projected (2027) background and build-out traffic conditions using Synchro/SimTraffic Version 12 software to determine the operating characteristics of the adjacent road network and the impacts of the proposed project.

Capacity is defined as the maximum number of vehicles that can pass over a particular road segment or through a particular intersection within a set time duration. Capacity is combined with Level-of-Service (LOS) to describe the operating characteristics of a road segment or intersection. LOS is a qualitative measure that describes operational conditions and motorist perceptions within a traffic stream. The *Highway Capacity Manual* defines six levels of service, LOS A through LOS F, with A representing the shortest average delays and F representing the longest average delays. LOS D is the typically accepted standard for signalized intersections in urbanized areas. For signalized intersections, LOS is defined for the overall intersection operation.

For unsignalized intersections, only the movements that must yield right-of-way experience control delay. Therefore, LOS criteria for the overall intersection is not reported by Synchro Version 12 or computable using methodology published in the *Highway Capacity Manual*. It is typical for stop sign controlled side streets and driveways intersecting major streets to experience long delays during peak hours, while the majority of the traffic moving through the intersection on the major street experiences little or no delay. <u>Table 6.0</u> lists the LOS control delay thresholds published in the *Highway Capacity Manual* for signalized and unsignalized intersections.

Table 6.0 Level-of-Service Control Delay Thresholds					
Level-of- Service	ServiceControl Delay Per Vehicle [sec/veh]Average Control Delay [sec/veh] & Qualitative Operational Description				
А	≤ 10	≤ 10			
В	> 10 - 20	> 10 - 15	Short Delays		
C > 20 - 35 > 15 - 25					
D	> 35 - 55	> 25 - 35	Madamás Dalama		
Е	> 55 - 80	> 35 - 50	Moderate Delays		
F	> 80	> 50	Long Delays		

Where count or projected volumes were less than 4 vehicles, a minimum volume of 4 was used in the Synchro analysis to be conservative, though volume figures and volume development spreadsheets reflect actual volumes for all movements. A minimum peak hour factor (PHF) of 0.90 was used in each scenario, which was also used at all new intersections.

6.1 US 64 Business Westbound at Jenks Road

Analyses indicate that the intersection of US 64 Business Westbound at Jenks Road operated with short to moderate delays on the minor street approach (Jenks Road) in the existing condition.

The following improvement was committed as part of other projects in the study area:

• Install a traffic signal

Note that while this traffic signal has been installed, it was not activated at the time of the traffic counts and therefore was only included in the future conditions.

Analyses indicate that with the committed and recommended improvements in place, this intersection is expected to operate at an acceptable overall LOS in the study year 2027 with or without the proposed project in place. Based on the relatively minimal impacts associated with the addition of project site traffic, no improvements are recommended to be performed at this intersection as part of this project.

<u>Table 6.1</u> summarizes the operation of the intersection for the existing (2024) and projected (2027) background and build-out traffic conditions. Note that minor-street approach delays were reported from SimTraffic per NCDOT guidance in the existing scenario, with the NB approach delays from SimTraffic representing the EBL delay based on the Synchro network development requirements at RCIs.

Table 6.1 Level-of-Service US 64 Business at Jenks Road/Richardson Road					
Condition AM Peak Hour PM Peak Hour LOS (Delay) LOS (Delay)					
Existing (2024) Traffic – Unsignalized	SB – B (12.4) EBL – C (16.0)	SB – D (32.5) EBL – C (21.3)			
Projected (2027) Background Traffic – Signalized by Others	C (34.5)	D (36.1)			
Projected (2027) Build-out Traffic – Signalized by Others	D (40.5)	D (39.2)			

6.2 US 64 Business Eastbound at U-Turn West of Jenks Road

Analyses indicate that the intersection of US 64 Business Eastbound at the U-Turn West of Jenks Road operated with short delays on the minor street approach (U-Turn West of Jenks Road) in the existing condition.

The following improvement was committed as part of other projects in the study area:

• Install a traffic signal

Note that while this traffic signal has been installed, it was not activated at the time of the traffic counts and therefore was only included in the future conditions.

Analyses indicate that with the committed and recommended improvements in place, this intersection is expected to operate at an acceptable overall LOS in the study year 2027 with or without the proposed project in place. Based on the relatively minimal impacts associated with the addition of project site traffic, no improvements are recommended to be performed at this intersection as part of this project.

<u>Table 6.2</u> summarizes the operation of the intersection for the existing (2024) and projected (2027) background and build-out traffic conditions. Note that minor-street approach delays in the existing, stop-controlled configuration were reported from SimTraffic.

Table 6.2 Level-of-Service US 64 Business Eastbound at U-Turn West of Jenks Road				
Condition AM Peak Hour PM Peak Hour LOS (Delay) LOS (Delay)				
Existing (2024) Traffic – Unsignalized	WBU – C (21.9)	WBU – C (16.6)		
Projected (2027) Background Traffic – Signalized by OthersB (19.2)B (17.5)				
Projected (2027) Build-out Traffic – Signalized by Others	C (20.9)	B (18.5)		

6.3 Jenks Road at Wimberly Road

Analyses indicate that the unsignalized intersection of Jenks Road at Wimberly Road currently operates with short delays on the minor street approaches (Wimberly Road) in both the AM and PM peak hours. The intersection is expected to continue to operate with short delays in the study year 2027 with or without the proposed project in place.

Further, preliminary traffic signal warrant analyses indicate that projected traffic volumes are unlikely to meet MUTCD volume-based traffic signal warrant thresholds at the intersection of Jenks Road at Wimberly Road.

As the addition of site traffic results in only minor increases in approach delays, no roadway improvements are recommended at this intersection to accommodate projected site traffic.

<u>Table 6.3</u> summarizes the operation of the intersection for the existing (2024) and projected (2027) background and build-out traffic conditions. Note that minor-street approach delays were reported from SimTraffic.

Table 6.3 Level-of-Service Jenks Road at Wimberly Road (Unsignalized)					
Condition AM Peak Hour PM Peak Hour LOS (Delay) LOS (Delay)					
Existing (2024) Traffic	NB – A (3.6) SB – A (4.0)	NB – A (4.6) SB – A (5.1)			
Projected (2027) Background Traffic	NB – A (5.3) SB – A (7.1)	NB – A (6.4) SB – A (9.5)			
Projected (2027) Build-out Traffic	NB – A (6.2) SB – A (9.9)	NB – A (8.4) SB – C (15.6)			

6.4 Wimberly Road at White Oak Pond Road/North Site Driveway

Analyses indicate that the unsignalized intersection of Wimberly Road at White Oak Pond Road currently operates with short delays on the minor street approach (White Oak Pond Road) in both the AM and PM peak hours. The intersection is expected to operate with short delays in the projected (2027) background traffic condition.

A full-movement site driveway (North Site Driveway) with one ingress lane and one egress lane is proposed to align with White Oak Pond Road as part of this project. The intersection is expected to operate with short delays on both minor street approaches in the projected (2027) build-out traffic condition, and no improvements are recommended to be performed at this intersection to accommodate projected site traffic.

<u>Table 6.4</u> summarizes the operation of the intersection for the existing (2024) and projected (2027) background and build-out traffic conditions. Note that minor-street approach delays were reported from SimTraffic.

Table 6.4 Level-of-Service Wimberly Road at White Oak Pond Road/North Site Driveway (Unsignalized)					
Condition AM Peak Hour PM Peak Hour LOS (Delay) LOS (Delay)					
Existing (2024) Traffic	SB – A (4.1)	SB – A (6.4)			
Projected (2027) Background Traffic	SB – A (4.6)	SB – A (7.2)			
Projected (2027) Build-out Traffic	NB – A (4.0) SB – A (5.0)	NB – A (7.3) SB – A (7.2)			

6.5 Wimberly Road at Retreat at Preserve Driveway/South Site Driveway

The Retreat at Preserve at White Oak project proposes a full-movement site driveway along Wimberly Road approximately 550 feet north of Jenks Road. Analyses indicate that the intersection is expected to operate with short delays on the minor street approach (Retreat at Preserve Driveway) in both peak hours in the projected (2027) background condition.

A full-movement site driveway (South Site Driveway) with one ingress lane and one egress lane is proposed to align with the Retreat at Preserve driveway as part of this project. The following improvement is as part of the Jenks at Wimberly Residential development:

• Construct an exclusive northbound left-turn lane on Wimberly Road with 50 feet of storage and appropriate tapers

The intersection is expected to operate with short delays on both minor street approaches in the projected (2027) build-out traffic condition, and no additional improvements are recommended to be performed at this intersection to accommodate projected site traffic.

<u>Table 6.5</u> summarizes the operation of the intersection for the projected (2027) background and build-out traffic conditions. Note that minor-street approach delays were reported from SimTraffic.

Table 6.5 Level-of-Service Wimberly Road at Retreat at Preserve Driveway/South Site Driveway (Unsignalized)*				
ConditionAM Peak Hour LOS (Delay)PM Peak Hour LOS (Delay)				
Projected (2027) Background Traffic	WB – A (6.1)	WB – A (5.5)		
Projected (2027) Build-out Traffic	EB – A (4.3) WB – A (6.6)	EB – A (7.1) WB – A (6.6)		

7.0 Recommendations

Background Improvements by Others

The following improvements are committed as part of other projects in the study area:

US 64 Business Westbound at Jenks Road (by Sweetwater Commercial):

• Install a traffic signal

US 64 Business at U-Turn West of Jenks Road (by Sweetwater Commercial):

• Install a traffic signal

Wimberly Road at Retreat at Preserve Driveway (by Retreat at Preserve at White Oak):

• Construct the Retreat at Preserve Driveway with one ingress lane and one egress lane

While the traffic signals along US 64 Business have been installed, those were not activated at the time of the traffic counts and therefore were only included in the future conditions.

Recommended Improvements by Development

The following improvements are recommended as part of the Jenks at Wimberly Residential development:

Wimberly Road at White Oak Pond Road/North Site Driveway:

• Construct the North Site Driveway with one ingress lane and one egress lane

Wimberly Road at Retreat at Preserve Driveway/South Site Driveway:

- Construct the South Site Driveway with one ingress lane and one egress lane
- Construct an exclusive northbound left-turn lane on Wimberly Road with 50 feet of storage and appropriate tapers

Analyses indicate that with the committed and recommended improvements in place, all of the study intersections are expected to operate acceptably at project build-out with only relatively minimal impacts associated with the addition of project site traffic. Further, preliminary traffic signal warrant analyses indicate that projected traffic volumes are unlikely to meet MUTCD volume-based traffic signal warrant thresholds at the intersection of Jenks Road at Wimberly Road. Therefore, no additional improvements are recommended to be performed as part of this project.

Figures 7.1 shows the committed and recommended roadway laneage for the study intersections.

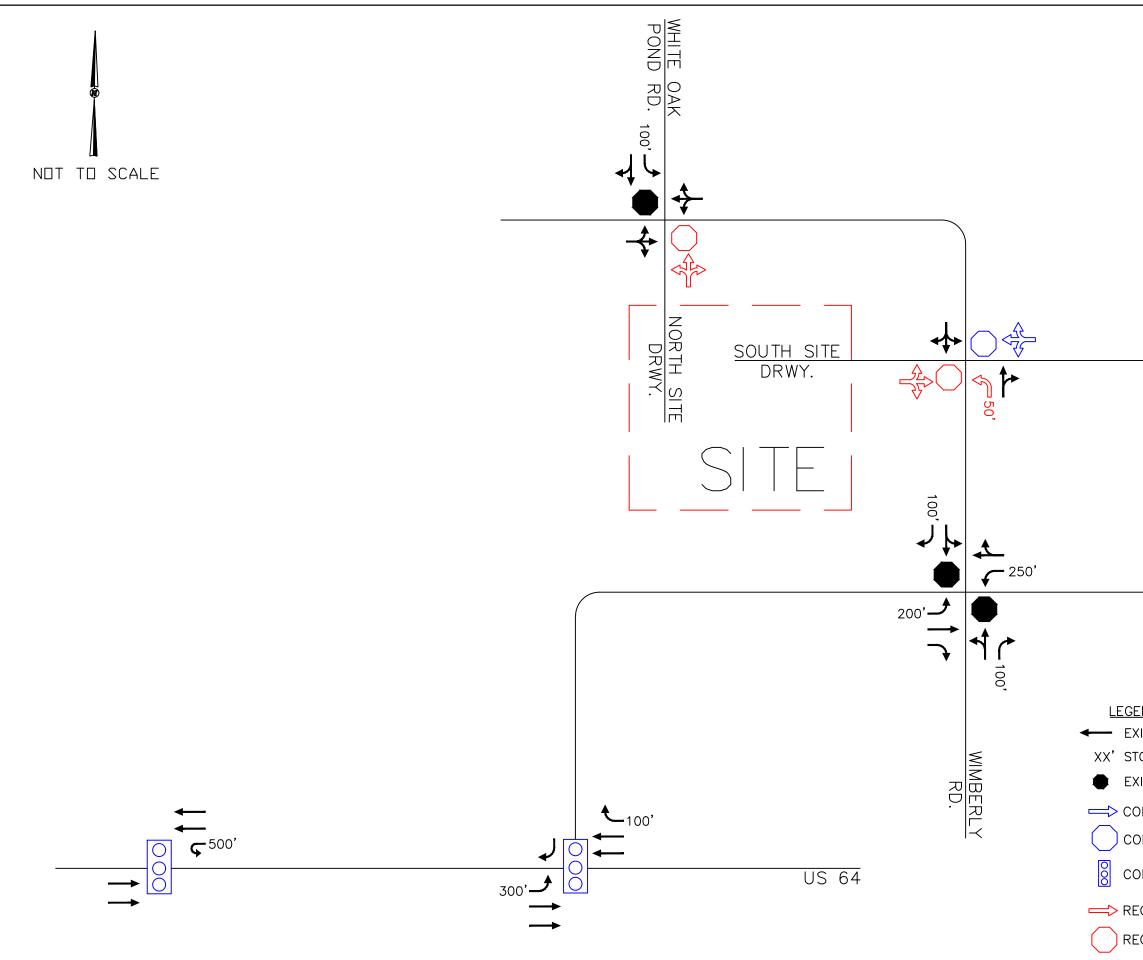


	FIGURE 7.1	PREPARED. REUSE AND ASSOCIATES, INC.
<u>PRESERVE AT</u> WHITE OAK DRWY.	COMMITTED AND RECOMMENDED ROADWAY LANEAGE	REIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE TION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.
JENKS RD. KISTING LANE FORAGE LENGTH KISTING STOP SIGN	JENKS AT WIMBERLY RESIDENTIAL APEX, NC TRAFFIC IMPACT ANALYSIS	THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SER
OMMITTED LANE (BY OTHERS) OMMITTED STOP SIGN (BY OTHERS) OMMITTED TRAFFIC SIGNAL (BY OTHERS) ECOMMENDED LANE ECOMMENDED STOP SIGN	Kimley » Horn	THIS DOCUMENT, TOGETHER WITH THE OF AND IMPROPER RELIANCE ON THIS

Appendix

Appendix A:

Approved Memorandum of Understanding

Preliminary Assumptions Jenks at Wimberly Residential - Traffic Impact Analysis Apex, North Carolina

The Jenks at Wimberly residential development is proposed to be located on the northwest quadrant of the intersection of Jenks Road at Wimberly Road in Apex, North Carolina. As currently envisioned, the development will consist of approximately 300 apartments, with site access provided via three driveways along Wimberly Road. Project build-out is anticipated in 2027.

Based on preliminary scoping discussions with representatives from the Town of Apex and North Carolina Department of Transportation (NCDOT) on September 25, 2023 and subsequent discussions via email in March 2024, the following assumptions will be incorporated in this analysis:

Analysis Scenarios

Weekday AM (7-9AM) and PM (4-6PM) peak hour analyses will be performed for the following study scenarios:

- Existing (2024)
- Projected (2027) Background
- Projected (2027) Build-out

Study Area

The study area will consist of the following intersections:

Included Study Intersections by Scenario				
Intersection	Existing	Background	Build-out	
US 64 Westbound at Jenks Road	✓	✓	\checkmark	
US 64 Eastbound at U-Turn West of Jenks Road	\checkmark	~	\checkmark	
Jenks Road at Wimberly Road	\checkmark	✓	\checkmark	
Wimberly Road at White Oak Pond Road/North Site Drwy.	✓	✓	\checkmark	
Wimberly Road at Retreat at Preserve at White Oak Drwy./South Site Drwy.		~	\checkmark	

Existing Volume Development

Weekday AM (7-9AM) and PM (4-6PM) peak hour turning movement counts will be collected when Wake County Public Schools are in session.

Background Traffic Growth

Based on a review of historic traffic volumes in the area, an 2% annual growth rate will be applied to existing traffic count volumes up to the study year 2027. However, no growth will be applied to volumes onto/off of White Oak Pond Road or the southern leg of Wimberly Road (Westford Access) as development along those roadways is generally built-out or otherwise accounted for in approved development traffic.

Approved Developments

Based on preliminary scoping discussions with the Town and NCDOT, the following approved developments in the study area will be included in the analysis as background traffic. Based on discussions with the Town, The Park at Wimberly project is estimated to currently be at 50% occupancy while other projects are currently at 0% occupancy, and this analysis will account for full occupancy of each project in the study year 2027:

- Sweetwater Commercial (100%) Site traffic to be obtained from *Sweetwater Development – Richardson Road Access Study* (RKA, October 2016)
- The Park at Wimberly (100%) Site traffic to be obtained from *Wolfe Properties PUD TIA* (Mott MacDonald, November 2019)
- Retreat at Preserve at White Oak (100%) Site traffic to be obtained from *The Retreat at the Preserve at White Oak TIA* (Kimley-Horn, March 2021)
- Westford Commercial Site traffic to be obtained from *Westford Mixed-Use TIA Addendum* (Kimley-Horn, August 2022)
- Arden at Summit Pines PUD (100%) Site traffic to be obtained from the *Arden at Apex TIA* (RKA, March 2022)
- Apex Light Industrial (100%) Site traffic to be obtained from the US 64 Light Industrial TIA (VHB, December 2022)
- Yellowbridge PUD (100%) Site traffic to be obtained from the *Yellow Bridge Residential TIA* (RKA, February 2022)

It is our understanding that the following improvements are currently being implemented and, while not included in the existing condition, will be completed as part of the approved developments listed above and will be included in the analysis in the future traffic conditions:

US 64 Business at Jenks Road

- Install a traffic signal

US 64 Business at U-Turn West of Jenks Road

Install a traffic signal

Trip Generation

Trip generation will be calculated using data from the 11th edition of the ITE *Trip Generation Manual.*

Trip Distribution

The following distribution will be used for project site trips:

- 35% to/from the east on US 64
- 30% to/from the east on Jenks Road
- 20% to/from the west on US 64
- 15% to/from the northwest on Wimberly Road

Other Study Assumptions

Existing peak hour factors will be used in the analysis for both existing and future year conditions where those exceed a minimum PHF of 0.90, which will also be used for all new intersections. Signal timings for future signals will be optimized in each condition.





JENKS ROAD APEX, NORTH CAROLINA



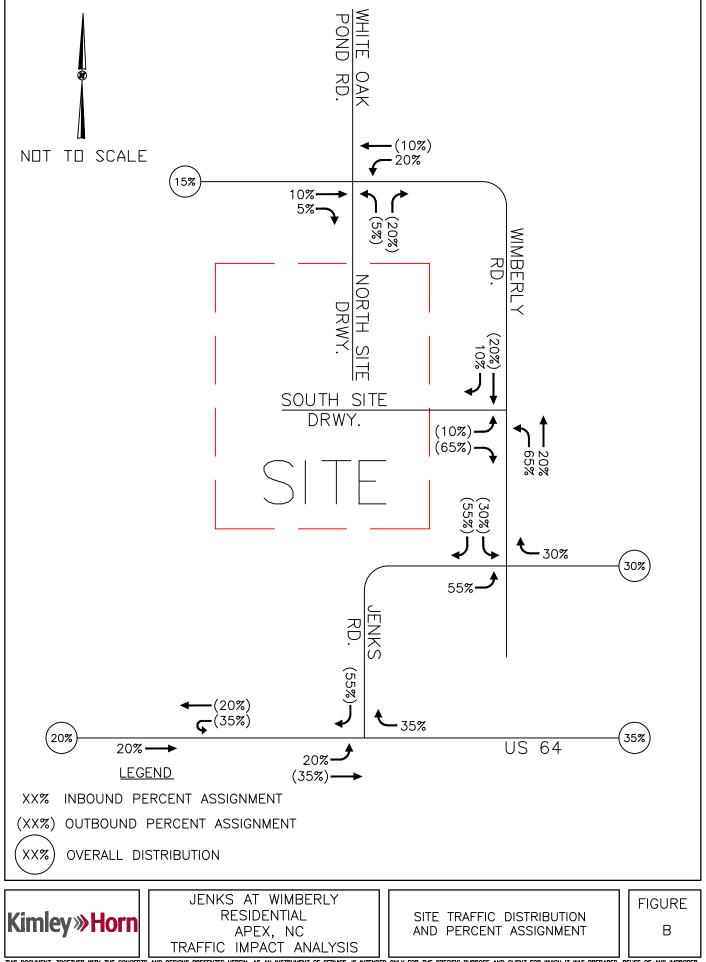
	Je	nks @ Wi	mberly Re	sidentia							
		Table 1 -	Trip Gene	ration							
Land Use	Into	nsity		Daily		A	/ Peak Ho	our	P	M Peak Ho	our
	line	lisity	Total	In	Out	Total	In	Out	Total	In	Out
221 Multifamily Housing (Mid-Rise, Not Close to Rail)	300	d.u.	1,386	693	693	120	28	92	117	71	46
Total Net New External Trips			1,386	693	693	120	28	92	117	71	46

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\[Jenks@WimberlyResidential-TIAData.xls]Trip Gen

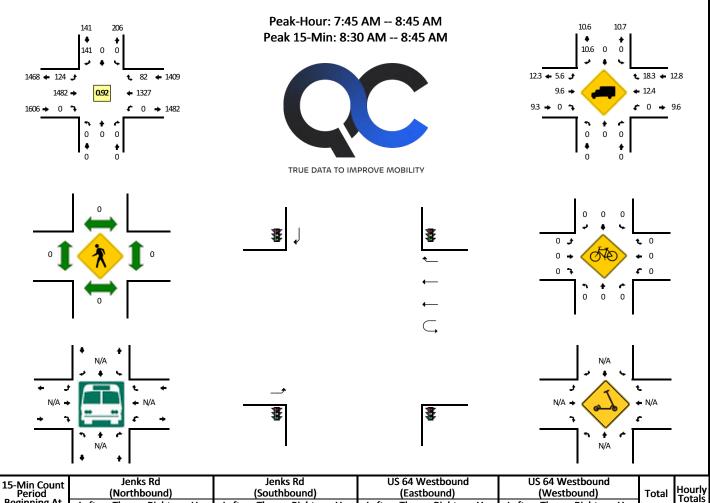
3/28/24



THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.



THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC. Appendix B: Traffic Count Data LOCATION: Jenks Rd -- US 64 Westbound CITY/STATE: Wake, NC QC JOB #: 16348101 DATE: Thu, Apr 25 2024



15-Min Count Period			is Rđ bound)				(s Rđ bound)				estbound)		L L		estbound) bound)	1	Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
7:00 AM	0	0	0	0	0	0	22	0	17	271	0	0	0	267	12	0	589	1
7:15 AM	0	0	0	0	0	0	32	0	20	401	0	0	0	286	15	0	754	
7:30 AM	0	0	0	0	0	0	38	0	17	431	0	0	0	332	17	0	835	
7:45 AM	0	0	0	0	0	0	42	0	26	387	0	0	0	319	20	0	794	2972
8:00 AM	0	0	0	0	0	0	19	0	20	316	0	0	0	330	23	0	708	3091
8:15 AM	0	0	0	0	0	0	54	0	41	335	0	0	0	350	21	0	801	3138
8:30 AM	0	0	0	0	0	0	26	0	37	444	0	0	0	328	18	0	853	3156
8:45 AM	0	0	0	0	0	0	32	0	32	380	0	0	0	297	18	0	759	3121
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	bound		т	4.4
Peak 15-Min Flowrates	Left	North Thru	bound Right	U	Left	South Thru	bound Right	U	Left	Eastb Thru	ound Right	U	Left	Westl Thru	bound Right	U	То	tal
	Left 0			U 0	Left 0			U	Left			U	Left 0			U 0		tal
Flowrates		Thru				Thru	Right	-		Thru	Right	-		Thru	Right	-	34	
Flowrates All Vehicles Heavy Trucks Buses	0	Thru 0	Right 0		0	Thru 0 0	Right 104	-	148	Thru 1776	Right 0	-	0	Thru 1312	Right 72	-	34 30	-12 54
Flowrates All Vehicles Heavy Trucks	0	Thru 0 0 0 0	Right 0		0	Thru 0 0 0 0	Right 104	-	148	Thru 1776 168 0	Right 0 0	-	0 0	Thru 1312 152 0	Right 72	-	34 3(-12 54)
Flowrates All Vehicles Heavy Trucks Buses	0	Thru 0 0	Right 0		0	Thru 0 0	Right 104	-	148	Thru 1776	Right 0	-	0	Thru 1312 152	Right 72	-	34 3(-12 54

Report generated on 5/2/2024 1:25 PM

LOCATION: Jenks Rd -- US 64 Westbound QC JOB #: 16348102 CITY/STATE: Wake, NC DATE: Thu, Apr 25 2024 Peak-Hour: 4:00 PM -- 5:00 PM 157 7.6 171 Peak 15-Min: 4:30 PM -- 4:45 PM ♦ ∳ 157 0 0 . **♦** 0 0 7 ٠ 1771 + 100 + **t** 71 **+** 1686 7.3 🔶 5 🤳 **t** 11.3 **+** 7.5 **+** 7.4 0.97 7.6 🜩 1338 🜩 **+** 1614 7.4 🔸 0 🦡 C → 7.6 1438 0 € ↓ 1 ↓ 1339 **♦** 0 **°** 0 **♦** 0 **ب** 'n ۰ 0 0 ŧ ŧ ŧ ŧ TRUE DATA TO IMPROVE MOBILITY 0 0 0 \$ 1 0 🛃 **t** 0 AD 0 0 0 🔸 **+** 0 0 7 **f** 0 ŧ n. **ب** 0 0 \subseteq N/A N/A ٠ و و t t N/A → 🗕 N/A N/A ↔ 🔶 N/A C * * £ ٦ ٦ 1 n ٠ ŧ N/A N/A

15-Min Count Period			cs Rd bound)				cs Rd Ibound)		l		estbound oound)	1	ι		estbound bound)	1	Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOLAIS
4:00 PM	0	0	0	0	0	0	45	0	23	326	0	0	0	401	14	1	810	
4:15 PM	0	0	0	0	0	0	50	0	25	353	0	0	0	367	11	0	806	
4:30 PM	0	0	0	0	0	0	29	0	35	335	0	0	0	425	22	0	846	
4:45 PM	0	0	0	0	0	0	33	0	17	324	0	0	0	421	24	0	819	3281
5:00 PM	0	0	0	0	0	0	48	0	14	230	0	0	0	413	17	1	723	3194
5:15 PM	0	0	0	0	0	0	44	0	18	240	0	0	0	428	25	1	756	3144
5:30 PM	0	0	0	0	0	0	45	0	19	320	0	0	0	412	18	0	814	3112
5:45 PM	0	0	0	0	0	0	49	0	18	283	0	0	0	353	15	0	718	3011
Peak 15-Min		North	bound			South	bound			Eastb	ound			West	bound		Та	أمغ
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	tal
All Vehicles	0	0	0	0	0	0	116	0	140	1340	0	0	0	1700	88	0	33	84
Heavy Trucks	0	0	0		0	0	12		4	80	0		0	132	4		23	32
Buses		0				0				0				0				`
Pedestrians	0	0	0		0	0 0	0		0	0	0		0	0 0	0			D D
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		(J
Scooters																		

Report generated on 5/2/2024 1:25 PM

LOCATION: U-Turn W of Jenks Rd -- US 64 QC JOB #: 16348103 CITY/STATE: Wake, NC DATE: Thu, Apr 25 2024 Peak-Hour: 7:45 AM -- 8:45 AM Peak 15-Min: 8:30 AM -- 8:45 AM ŧ ŧ **♦** 0 . 1412 🔶 9.4 🔶 0 + 1485 t t 7.6 🜩 ♦ 9.4 0.92 1589 🜩 **+** 1412 € 73 + 1662 7.6 🔸 0 🦡 C 0 → 7.2 1589 🔸 0 🧘 ŧ n ŧ n. ŧ ŧ ŧ TRUE DATA TO IMPROVE MOBILITY 0 🛃 **t** 0 **+** 0 0 3 **f** 0 n ŧ ¢ N/A N/A و £ t t N/A → N/A N/A 🛥 + N/A a £ £ ŧ n ŧ ¢ N/A N/A U-Turn W of Jenks Rd U-Turn W of Jenks Rd US 64 US 64 15-Min Count Period Beginning At Hourly (Westbound) (Northbound) (Southbound) (Eastbound) Total Totals Left Thru Right υ Left Thru Right υ Left Thru Right υ Left Thru Right υ

Scooters	Ŭ
Comments:	

7:00 AM

7:15 AM

7:30 AM

7:45 AM

8:00 AM

8:15 AM

8:30 AM

8:45 AM

Peak 15-Min Flowrates

All Vehicles

Heavy Trucks

Buses

Pedestrians

Bicycles

Report generated on 5/2/2024 1:25 PM

Left

Thru

Northbound

U

Right

Left

Thru

Southbound

Ō

Right

U

Left

Thru

Eastbound

Right

υ

Left

Thru

Westbound

Right

υ

Total

LOCATION: U-Turn W of Jenks Rd -- US 64 QC JOB #: 16348104 CITY/STATE: Wake, NC DATE: Wed, Apr 24 2024 Peak-Hour: 4:45 PM -- 5:45 PM 0 0 0 0 Peak 15-Min: 4:45 PM -- 5:00 PM ŧ **♦** 0 ٠ **♦** 0 0 0 0 0 1707 🔶 0 0 **+** 1780 3.3 🔶 0 🤳 0 **+** 3.1 t £ ŧ. 0.96 6.5 🔸 **+** 3.3 1438 🔶 **+** 1707 6.5 🔸 0 🦡 c 0 → 6.2 1438 0 € 'n **♦** 0 ۴ 0 n ŧ e 0 0 0 0 ٠ ٠ ŧ ŧ TRUE DATA TO IMPROVE MOBILITY 0 0 0 0 🛃 **t** 0 070 0 0 0 🔸 **+** 0 0 7 **f** 0 ŧ n. 0 0 0 N/A ٠ £ £ t N/A 🛥 N/A ↔ 🔶 N/A N/A a ¢ ٦ n ŧ ć N/A N/A U-Turn W of Jenks Rd U-Turn W of Jenks Rd US 64 US 64 15-Min Co

Left	Thru	Right	U						<u> </u>				<u> </u>	~			Totals
			0	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
0	0	0	0	0	0	0	0	0	384	0	0	0	345	0	14	743	
0	0	0	0	0	0	0	0	0	352	0	0	0	396	0	19	767	
0	0	0	0	0	0	0	0	0	313	0	0	0	386	0	16	715	
0	0	0	0	0	0	0	0	0	387	0	0	0	430	0	20	837	3062
0	0	0	0	0	0	0	0	0	362	0	0	0	394	0	24	780	3099
0	0	0	0	0	0	0	0	0		0	0	0		0	15		3148
0	0	0	0	0	0	0	0	0	337	0	0	0		0			3218
0	0	0	0	0	0	0	0	0	359	0	0	0	346	0	20	725	3106
	Northk	ound			South	bound			Eastb	ound			West	oound		To	tal
Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	Lai
0	0	0	0	0	0	0	0	0	1548	0	0	0	1720	0	80	33	48
0	0	0		0	0	0		0	100	0		0	84	0		18	34
	0				0				0				0			C)
0	0	0		0	0	0		0	0	0		0	0	0		C	
	0 0 0 0 0 0 eft 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 eft Thru Right 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0 0	0 0	0 0	0 0 0 0 0 0 0 352 0 0 0 0 0 0 0 313 0 0 0 0 0 0 0 0 337 0 0 0 0 0 0 0 0 362 0 0 0 0 0 0 0 362 0 0 0 0 0 0 0 362 0 0 0 0 0 0 377 0 0 0 0 0 0 337 0 0 0 0 0 0 337 0 0 0 0 0 0 359 Northbound Left Thru Right U Left Thru 0 0 0 0 0 0 0 100	0 0 0 0 0 0 0 352 0 0 0 0 0 0 0 0 0 332 0 0 0 0 0 0 0 0 0 333 0 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 352 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 352 0 0 0 0 0 0 0 0 352 0 0 0 0 0 0 0 337 0 0 0 0 0 0 0 0 359 0 <th< td=""><td>0 0 0 0 0 0 0 352 0 0 0 0 0 0 0 0 0 0 332 0 0 0 0 0 0 0 0 0 0 333 0 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 0 337 0 0 0 0 0 0 0 0 0 337 0 0 0 0 0 0 0 0 0 359 0 0 Northbound Southbound Eastbound Eastbound eft Thru Right U Left Thru Right U 1548 0 0 0 0 0 0 0 0 0<</td><td>0 0 0 0 0 0 0 352 0 0 0 0 0 0 0 0 0 0 0 313 0 0 0 0 0 0 0 0 0 0 0 313 0 0 0 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 0 362 0 0 0 0 0 0 0 0 0 0 337 0 0 0 0 0 0 0 0 0 0 337 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 0 0 0 0 0 0 352 0 0 0 396 0 0 0 0 0 0 0 313 0 0 386 0 0 0 0 0 0 0 313 0 0 386 0 0 0 0 0 0 387 0 0 430 0 0 0 0 0 0 352 0 0 430 0 0 0 0 0 0 352 0 0 394 0 0 0 0 0 0 0 352 0 0 449 0 0 0 0 0 0 359 0 0 346 Northbound Southbound Eastbound Eastbound West eft Thru Right U Left Thru Right 0 0 1720 0 0</td><td>0 0 0 0 0 0 0 352 0 0 0 396 0 0 0 0 0 0 0 0 313 0 0 0 386 0 0 0 0 0 0 0 313 0 0 0 386 0 0 0 0 0 0 0 0 387 0 0 0 430 0 0 0 0 0 0 0 0 352 0 0 0 394 0 0 0 0 0 0 0 0 352 0 0 0 394 0 0 0 0 0 0 0 0 337 0 0 0 449 0 0 0 0 0 0 0 0 337 0 0 346 0 eft Thru Right U Left <th< td=""><td>0 0 0 0 0 0 352 0 0 396 0 19 0 0 0 0 0 0 0 313 0 0 386 0 16 0 0 0 0 0 387 0 0 348 0 20 0 0 0 0 0 0 387 0 0 430 0 20 0 0 0 0 0 0 352 0 0 440 24 0 0 0 0 0 0 352 0 0 344 0 14 0 0 0 0 0 0 0 359 0 0 346 0 20 Northbound Eastbound Eastbound Westbound Westbound 80 36 36 80 36 36 80 36 376 90 376 90 376 90 90 376</td><td>0 0 0 0 0 0 0 352 0 0 0 396 0 19 767 0 0 0 0 0 0 0 313 0 0 386 0 16 715 0 0 0 0 0 0 0 387 0 0 430 0 20 837 0 0 0 0 0 0 0 372 0 0 0 430 0 20 837 0 0 0 0 0 0 0 352 0 0 0 394 0 24 780 0 0 0 0 0 0 0 337 0 0 0 449 0 14 785 0 0 0 0 0 0 0 337 0 0 0 20 725 Northbound Eastbound Eastbound U Eft Thru<!--</td--></td></th<></td></th<>	0 0 0 0 0 0 0 352 0 0 0 0 0 0 0 0 0 0 332 0 0 0 0 0 0 0 0 0 0 333 0 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 0 337 0 0 0 0 0 0 0 0 0 337 0 0 0 0 0 0 0 0 0 359 0 0 Northbound Southbound Eastbound Eastbound eft Thru Right U Left Thru Right U 1548 0 0 0 0 0 0 0 0 0<	0 0 0 0 0 0 0 352 0 0 0 0 0 0 0 0 0 0 0 313 0 0 0 0 0 0 0 0 0 0 0 313 0 0 0 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 0 0 387 0 0 0 0 0 0 0 0 0 362 0 0 0 0 0 0 0 0 0 0 337 0 0 0 0 0 0 0 0 0 0 337 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 352 0 0 0 396 0 0 0 0 0 0 0 313 0 0 386 0 0 0 0 0 0 0 313 0 0 386 0 0 0 0 0 0 387 0 0 430 0 0 0 0 0 0 352 0 0 430 0 0 0 0 0 0 352 0 0 394 0 0 0 0 0 0 0 352 0 0 449 0 0 0 0 0 0 359 0 0 346 Northbound Southbound Eastbound Eastbound West eft Thru Right U Left Thru Right 0 0 1720 0 0	0 0 0 0 0 0 0 352 0 0 0 396 0 0 0 0 0 0 0 0 313 0 0 0 386 0 0 0 0 0 0 0 313 0 0 0 386 0 0 0 0 0 0 0 0 387 0 0 0 430 0 0 0 0 0 0 0 0 352 0 0 0 394 0 0 0 0 0 0 0 0 352 0 0 0 394 0 0 0 0 0 0 0 0 337 0 0 0 449 0 0 0 0 0 0 0 0 337 0 0 346 0 eft Thru Right U Left <th< td=""><td>0 0 0 0 0 0 352 0 0 396 0 19 0 0 0 0 0 0 0 313 0 0 386 0 16 0 0 0 0 0 387 0 0 348 0 20 0 0 0 0 0 0 387 0 0 430 0 20 0 0 0 0 0 0 352 0 0 440 24 0 0 0 0 0 0 352 0 0 344 0 14 0 0 0 0 0 0 0 359 0 0 346 0 20 Northbound Eastbound Eastbound Westbound Westbound 80 36 36 80 36 36 80 36 376 90 376 90 376 90 90 376</td><td>0 0 0 0 0 0 0 352 0 0 0 396 0 19 767 0 0 0 0 0 0 0 313 0 0 386 0 16 715 0 0 0 0 0 0 0 387 0 0 430 0 20 837 0 0 0 0 0 0 0 372 0 0 0 430 0 20 837 0 0 0 0 0 0 0 352 0 0 0 394 0 24 780 0 0 0 0 0 0 0 337 0 0 0 449 0 14 785 0 0 0 0 0 0 0 337 0 0 0 20 725 Northbound Eastbound Eastbound U Eft Thru<!--</td--></td></th<>	0 0 0 0 0 0 352 0 0 396 0 19 0 0 0 0 0 0 0 313 0 0 386 0 16 0 0 0 0 0 387 0 0 348 0 20 0 0 0 0 0 0 387 0 0 430 0 20 0 0 0 0 0 0 352 0 0 440 24 0 0 0 0 0 0 352 0 0 344 0 14 0 0 0 0 0 0 0 359 0 0 346 0 20 Northbound Eastbound Eastbound Westbound Westbound 80 36 36 80 36 36 80 36 376 90 376 90 376 90 90 376	0 0 0 0 0 0 0 352 0 0 0 396 0 19 767 0 0 0 0 0 0 0 313 0 0 386 0 16 715 0 0 0 0 0 0 0 387 0 0 430 0 20 837 0 0 0 0 0 0 0 372 0 0 0 430 0 20 837 0 0 0 0 0 0 0 352 0 0 0 394 0 24 780 0 0 0 0 0 0 0 337 0 0 0 449 0 14 785 0 0 0 0 0 0 0 337 0 0 0 20 725 Northbound Eastbound Eastbound U Eft Thru </td

Report generated on 5/2/2024 1:25 PM

LOCATION: Wimberly Rd -- Jenks Rd QC JOB #: 16348107 CITY/STATE: Apex, NC DATE: Thu, Apr 25 2024 Peak-Hour: 5:15 PM -- 6:15 PM 161 6.2 2.4 84 Peak 15-Min: 6:00 PM -- 6:15 PM ♦ ♦ 59 13 89 ♦ 8.5 15.4 3.4 د ٠ ٠ 4.3 🔶 0 🤳 162 🔶 52 🌛 **t** 27 **+** 166 **t** 0 🔶 1.2 1.9 🔸 0.92 **+** 95 **+** 2.1 106 🔸 1.8 🔸 12.5 🦡 € 0 → 2.2 166 🔸 8 🤼 • 8 ♦ • 0 ♦ ★★ **♦** 40 ۴ 0 **♦** 50 ŧ 65 4.6 TRUE DATA TO IMPROVE MOBILITY 0 0 0 ┥ STO 0 🛃 **t** 0 AD 0 Γo 0 🔸 **+** 0 **f** 0 0 7 **~ ° ♦** 0 ۴ 0 11 N/A N/A ٠ و t و t N/A → ← N/A N/A ↔ **←** N/A 0 1 STOP £ 7 £ ٦, n ŧ ŧ e N/A N/A ٠

15-Min Count Period			erly Rd bound)				erly Rd bound)				cs Rd bound)				s Rd bound)		Total	Hourly
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
6:00 AM	0	1	1	0	4	0	1	0	5	8	0	0	0	5	1	0	26	
6:15 AM	2	1	5	0	2	0	2	0	14	16	0	0	1	3	2	0	48	
6:30 AM	1	0	5	0	5	0	5	0	18	18	0	0	0	9	0	0	61	
6:45 AM	2	1	6	0	7	1	4	0	21	24	2	0	1	8	8	0	85	220
7:00 AM	1	2	12	0	22	1	8	0	10	20	0	0	2	7	9	0	94	288
7:15 AM	2	0	12	0	18	1	13	0	23	29	0	0	3	5	5	0	111	351
7:30 AM	1	1	19	0	16	0	13	0	17	18	0	0	3	12	6	0	106	396
7:45 AM	2	1	7	0	8	0	16	0	14	30	1	0	2	22	7	0	110	421
8:00 AM	1	1	11	0	15	0	6	0	17	23	0	0	4	13	10	0	101	428
8:15 AM	3	0	13	0	8	2	12	0	17	50	2	0	3	29	5	0	144	461
8:30 AM	1	5	7	0	11	1	7	0	21	33	4	0	4	16	9	0	119	474
8:45 AM	4	2	11	0	11	0	10	0	19	29	1	0	3	23	7	0	120	484
9:00 AM	2	5	7	0	8	0	7	0	12	28	1	0	4	20	4	0	98	481
9:15 AM	1	0	4	0	10	0	6	0	21	22	0	0	3	10	10	0	87	424
9:30 AM	1	0	6	0	11	2	6	0	12	13	0	0	2	26	4	0	83	388
9:45 AM	4	0	6	0	12	1	6	0	12	22	1	0	7	15	9	0	95	363
10:00 AM	1	3	5	0	8	1	6	0	13	14	1	0	0	9	11	0	72	337
10:15 AM	2	1	6	0	7	0	8	0	17	18	0	0	0	15	5	0	79	329
10:30 AM	1	1	5	0	13	0	7	0	10	11	2	0	4	19	4	0	77	323
10:45 AM	1	0	3	0	9	1	8	0	7	25	1	0	3	23	10	0	91	319
11:00 AM	0	0	6	0	7	1	8	0	12	14	0	0	2	22	8	0	80	327
11:15 AM	0	0	6	0	9	0	7	0	7	8	0	0	2	13	7	0	59	307
11:30 AM	2	0	4	0	7	0	8	0	16	9	1	0	3	14	7	0	71	301
11:45 AM	0	0	3	0	12	1	13	0	17	12	0	0	3	17	7	0	85	295
12:00 PM	3	0	4	0	8	0	8	0	11	13	1	0	5	10	6	0	69	284
12:15 PM	2	0	5	0	12	1	7	0	15	12	0	0	4	11	10	0	79	304
12:30 PM	1	0	1	0	6	0	6	0	10	17	0	0	5	16	11	0	73	306
12:45 PM	1	2	8	0	15	2	15	0	9	21	0	0	2	11	5	0	91	312
1:00 PM	0	0	4	0	9	1	7	0	18	8	0	0	4	24	15	0	90	333
1:15 PM	1	0	6	0	10	1	6	0	12	9	0	0	3	18	10	0	76	330
1:30 PM	3	2	4	0	10	0	6	0	17	10	1	0	2	16	8	0	79	336
1:45 PM	1	1	3	0	11	0	10	0	13	12	0	0	4	20	4	0	79	324
2:00 PM	1	1	8	0	8	1	11	0	14	6	0	0	2	12	5	0	69	303
2:15 PM	0	0	7	0	21	0	18	0	7	10	0	0	7	18	6	0	94	321
2:30 PM	2	1	4	0	15	4	12	0	12	4	1	0	4	24	11	0	94	336
2:45 PM	2	2	9	0	9	0	8	0	17	21	2	0	5	15	8	0	98	355
3:00 PM	2	1	7	0	11	2	13	0	13	22	2	0	8	33	9	0	123	409
3:15 PM	1	1	12	0	15	1	15	0	16	24	1	0	8	24	9	0	127	442

15-Min Count Period			erly Rd bound)				erly Rd bound)				s Rd ound)				s Rd bound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
3:30 PM	3	1	3	0	7	1	5	0	22	33	0	0	9	15	4	0	103	451
3:45 PM	0	2	8	0	14	3	8	0	17	31	2	0	4	22	13	0	124	477
4:00 PM	3	0	2	0	11	5	18	0	18	25	0	0	4	27	13	0	126	480
4:15 PM	1	2	7	0	13	2	14	0	16	22	2	0	7	24	10	0	120	473
4:30 PM	1	2	11	0	13	3	8	0	19	32	2	0	11	18	5	0	125	495
4:45 PM	1	1	6	0	12	3	7	0	15	30	0	0	9	19	17	0	120	491
5:00 PM	1	1	8	0	14	4	18	0	7	24	1	0	3	30	12	0	123	488
5:15 PM	1	0	9	0	22	4	14	0	18	24	2	0	16	27	6	0	143	511
5:30 PM	3	2	7	0	17	1	13	0	11	22	4	0	10	21	5	0	116	502
5:45 PM	2	1	11	0	26	4	20	0	10	21	0	0	7	25	10	0	137	519
6:00 PM	2	2	10	0	24	4	12	0	13	39	2	0	11	22	6	0	147	543
6:15 PM	2	3	10	0	11	2	22	0	13	15	4	0	8	19	14	0	123	523
6:30 PM	2	2	8	0	10	2	10	0	17	22	0	0	6	27	12	0	118	525
6:45 PM	0	1	6	0	17	1	14	0	12	15	2	0	7	17	4	0	96	484
7:00 PM	2	1	5	0	12	1	8	0	12	16	0	0	10	19	8	0	94	431
7:15 PM	1	0	9	0	7	2	16	0	9	28	1	0	6	22	10	0	111	419
7:30 PM	1	0	9	0	8	2	8	0	3	19	3	0	8	19	3	0	83	384
7:45 PM	1	0	1	0	9	0	6	0	13	19	0	0	9	21	8	1	88	376
Peak 15-Min		North	bound			South	bound			Eastb	ound			West	bound		То	4 -1
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	tai
All Vehicles	8	8	40	0	96	16	48	0	52	156	8	0	44	88	24	0	58	38
Heavy Trucks	0	4	0		4	4	4		0	4	0		0	0	0		2	0
Buses																		
Pedestrians		28				0				0				0			2	8
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(D
Comments:																		

Report generated on 5/2/2024 1:25 PM

	Win	nberly R	oad	Je	enks Ro	ad	Win	nberly R	load	J	enks Ro	ad	Intersection
	S	outhbou	nd	S	/estbou	nd	N	orthbou	nd	Ш	astbour	nd	Volume
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	volume
7:00	22	1	8	2	7	9	1	2	12	10	20	0	94
7:15	18	1	13	3	5	5	2	0	12	23	29	0	111
7:30	16	0	13	3	12	6	1	1	19	17	18	0	106
7:45	8	0	16	2	22	7	2	1	7	14	30	1	110
8:00	15	0	6	4	13	10	1	1	11	17	23	0	101
8:15	8	2	12	3	29	5	3	0	13	17	50	2	144
8:30	11	1	7	4	16	9	1	5	7	21	33	4	119
8:45	11	0	10	3	23	7	4	2	11	19	29	1	120
16:00	11	5	18	4	27	13	3	0	2	18	25	0	126
16:15	13	2	14	7	24	10	1	2	7	16	22	2	120
16:30	13	3	8	11	18	5	1	2	11	19	32	2	125
16:45	12	3	7	9	19	17	1	1	6	15	30	0	120
17:00	14	4	18	3	30	12	1	1	8	7	24	1	123
17:15	22	4	14	16	27	6	1	0	9	18	24	2	143
17:30	17	1	13	10	21	5	3	2	7	11	22	4	116
17:45	26	4	20	7	25	10	2	1	11	10	21	0	137
Peak Hour	SBL	SBT	SBR	WBL	WBT	WBR	NBL	NBT	NBR	EBL	EBT	EBR	Volume
7:00 - 8:00	64	2	50	10	46	27	6	4	50	64	97	1	421
7:15 - 8:15	57	1	48	12	52	28	6	3	49	71	100	1	428
7:30 - 8:30	47	2	47	12	76	28	7	3	50	65	121	3	461
7:45 - 8:45	42	3	41	13	80	31	7	7	38	69	136	7	474
8:00 - 9:00	45	3	35	14	81	31	9	8	42	74	135	7	484
											-		-
Peak Hour	SBL	SBT	SBR	WBL	WBT	WBR	NBL	NBT	NBR	EBL	EBT	EBR	Volume
16:00 - 17:00	49	13	47	31	88	45	6	5	26	68	109	4	491
16:15 - 17:15	52	12	47	30	91	44	4	6	32	57	108	5	488
16:30 - 17:30	61	14	47	39	94	40	4	4	34	59	110	5	511
16:45 - 17:45	65	12	52	38	97	40	6	4	30	51	100	7	502
17:00 - 18:00	79	13	65	36	103	33	7	4	35	46	91	7	519
		1	1			lour Tra							•
Peak Hour	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	Volume
8:00 - 9:00	9	8	42	45	3	35	74	135	7	14	81	31	484

Wimberly Road and Jenks Road AM and PM Peak Hour Traffic Count Count Performed: Thursday, April 25, 2024

k:\dur_ldev\012095049 jenks at wimberly residential\t4 - analysis\[jenks@wimberlyresidential-tiadata.xls]ct. #1

79

13

SB

0.94

0.79

65

Peak-Hour Factor by Approach

91

EΒ

0.78

0.82

46

36

7

103

WB

0.85

0.88

printed:

33

35

4

NB

0.87

0.82

17:00 - 18:00

Peak Hour

8:00 - 9:00 17:00 - 18:00 7

5/28/2024 13:02

519

PHF

0.84

0.91

LOCATION: Wimberly Rd -- White Oak Pond Rd QC JOB #: 16348105 CITY/STATE: Wake, NC DATE: Thu, Apr 25 2024 Peak-Hour: 8:00 AM -- 9:00 AM 10.5 13.1 107 76 Peak 15-Min: 8:30 AM -- 8:45 AM ♦
 ♦
 0
 11.1
 0 ♦ 0 **♦** 72 4 ٠ ٠ 0 **+** 0 **; t** 22.2 🗰 8 0 0 4 25 ٠ و 9 t 0.89 0 🔸 0 0 🔸 ٠ + 0 0 🔸 0 🦡 € 0 → 4.3 0 + 0 7 < 0 0 12.2 5.3 • • ŧ ŧ 117 9.1 11.1 TRUE DATA TO IMPROVE MOBILITY 0 0 0 ╞ 0 🛃 **t** 0 AD 0 2 0 🔸 **+** 0 0 7 **f** 0 ŧ 0 0 0 NI/A N/A ٠ و £ t N/A → N/A → N/A 🔶 N/A Þ a £ ٦ ŧ ¢ N/A N/A ٠ Wimberly Rd Wimberly Rd White Oak Pond Rd White Oak Pond Rd 15-Mir 0

At left Thru Right II left Thru Right II left Thru Right II left Thru Ri	d)	Total	Hourly Totals
A ^t Left Thru Right U Left Thru Right U Left Thru Right U Left Thru Ri	nt U		TOtals
0 22 0 0 1 29 0 0 0 0 0 0 2 0	0	54	1
0 24 2 0 2 31 0 0 0 0 0 2 0	0	63	
0 23 1 0 2 19 0 0 0 0 0 6 0	0	52	
0 18 4 0 2 17 0 0 0 0 0 3 0	0	46	215
0 21 6 0 2 21 0 0 0 0 0 3 0	0	55	216
0 21 4 0 2 17 0 0 0 0 0 0 7 0	0	51	204
0 32 5 0 0 16 0 0 0 0 0 4 0	0	61	213
0 24 4 0 0 18 0 0 0 0 0 0 2 0	0	51	218
lin Northbound Southbound Eastbound Westbou	ł		otal
	nt U	- 10	Jai
^s Left Thru Right U Left Thru Right U Left Thru Right U Left Thru Ri			
Left find Nght O Left find Nght O Left find Nght O	0	2	44
Let mid light o Let mid light o Let mid light o	0		244 28
cert mid nid nid <td>0</td> <td>2</td> <td></td>	0	2	
es 0 128 20 0 64 0 0 0 0 16 0		-	2

Report generated on 5/2/2024 1:25 PM

LOCATION: Wimberly Rd -- White Oak Pond Rd QC JOB #: 16348106 CITY/STATE: Wake, NC DATE: Thu, Apr 25 2024 Peak-Hour: 5:00 PM -- 6:00 PM 156 1.3 3.8 78 Peak 15-Min: 5:15 PM -- 5:30 PM ♦
 ♦
 0
 145
 11 ŧ • 0 **♦** 0 1.4 ٠ **t** 11 **+** 20 0 **+** 0 **;** 0 **+** 10 0 ٠ 0 و 0 🔸 0 0 🔸 0.87 ٠ **+** 0 € 9 → 26 **€** 22.2 **→** 0 0 🔸 0 🦡 0 + 0 7 *
*
67
15 0 **°** 0 **♦** 4.5 ۰ 0 ٠ ŧ ŧ ŧ 154 82 2.6 3.7 TRUE DATA TO IMPROVE MOBILITY 0 0 0 ╞ 0 🛃 **t** 0 50 0 0 0 🔸 **+** 0 0 7 **f** 0 ŧ 0 1 Δ NI/A N/A ٠ و £ t N/A → N/A → N/A 🔶 N/A Þ a £ ٦ ŧ ¢ N/A N/A ٠ Wimberly Rd Wimberly Rd White Oak Pond Rd White Oak Pond Rd 15-Min 5

15-Min Count Period			erly Rd bound)				erly Rd bound)		~		k Pond R ound)	a	v		k Pond R bound)	d	Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		TOLAIS
4:00 PM	0	27	4	0	5	29	0	0	0	0	0	0	7	0	2	0	74	
4:15 PM	0	20	6	0	2	23	0	0	0	0	0	0	4	0	3	0	58	
4:30 PM	0	18	7	0	3	20	0	0	0	0	0	0	3	0	2	0	53	
4:45 PM	0	28	8	0	2	23	0	0	0	0	0	0	3	0	1	0	65	250
5:00 PM	0	18	3	0	6	30	0	0	0	0	0	0	4	0	4	0	65	241
5:15 PM	0	19	6	0	3	40	0	0	0	0	0	0	3	0	3	0	74	257
5:30 PM	0	13	5	0	1	28	0	0	0	0	0	0	1	0	1	0	49	253
5:45 PM	0	17	1	0	1	47	0	0	0	0	0	0	1	0	3	0	70	258
											-							
Peak 15-Min		North	bound			South	bound			Eastb	ound			West	oound		та	tal
Peak 15-Min Flowrates	Left	North Thru	bound Right	U	Left	South Thru	bound Right	U	Left	Eastb Thru	ound Right	U	Left	Westl Thru	oound Right	U	То	tal
	Left 0			U 0	Left 12			U	Left 0			U 0	Left 12			U 0		tal 96
Flowrates		Thru	Right	-		Thru	Right	-			Right	-		Thru	Right			96
Flowrates All Vehicles Heavy Trucks	0	Thru 76	Right 24	-	12	Thru 160	Right 0	-	0	Thru 0	Right 0	-	12	Thru 0	Right 12		29	96
Flowrates All Vehicles Heavy Trucks Buses	0	Thru 76	Right 24	-	12	Thru 160 4	Right 0	-	0	Thru 0	Right 0	-	12	Thru 0 0	Right 12		29	96 3

Report generated on 5/2/2024 1:25 PM

Appendix C: Approved Development Data



October 20, 2016

Gordon Paulsen Retail Strategies of NC, Inc 3900 Merton Drive, Suite 160 Raleigh, NC 27609

Subject: Sweetwater Development – Richardson Road Access Study Apex, North Carolina

Dear Mr. Paulsen:

This letter provides a summary of the updated capacity analysis for the proposed driveway locations along the Richardson Road Extension as part of the Sweetwater Development located south of the intersection of US 64 and Jenks Road in Apex, North Carolina. The purpose of this study is to update the Traffic Impact Analysis that was approved in 2015 with the current commercial area site plan.

Background

The original TIA report was prepared for the Sweetwater Development in December 2014 and approved by the Town of Apex (Town) and the North Carolina Department of Transportation (NCDOT). Improvements were required of the development for the intersection of US 64 and Jenks Road / Richardson Road. The site plan evaluated in the TIA did not include apartments in the commercial area. The current plan for the commercial area includes a reduction in the original residential units, a reduction in retail space, and an addition of 230 apartment units within the commercial area. This study evaluates the transportation network based on the current proposed plan.

The following intersections were included in this study:

- US 64 and Jenks Road
- US 64 and Richardson Road
- West U-Turn on US 64
- East U-Turn on US 64
- Kelly Road and Beaver Creek Commons Drive
- US 64 and Kellyridge Road
- Richardson Road and Site Drive 1 (northern access)
- Richardson Road and Site Drive 2 (southern access)

It should be noted that a third access to each side of the commercial area is also proposed and these driveways are restricted to right-in / right-out (RIRO) movements. Although these site drives were not considered study intersections, a percentage of site trips were routed to these intersections.

Existing and Background Peak Hour Traffic

The original TIA existing traffic counts, conducted in November 2014, were used in this study.

The original TIA existing (2014) peak hour traffic volumes were adjusted with a compounded annual growth rate of 3% to project the volumes to the year 2019. Two future developments, Deer Creek and The Preserve at White Oak Creek, were also included in the background traffic in the original TIA. The background (2019) traffic volumes from the original TIA were diverted for the improvements recommended at the intersection of US 64 and Jenks Road / Richardson Road. Refer to Figure 2 for and illustration of the diverted background (2019) traffic.

Since the approval of the original TIA, additional developments within the study area have been approved. The Smith Farm Assemblage is expected to complete the south portion of the Richardson Road Extension, connecting to Olive Chapel Road. The development is anticipated to be completed in 2021 and is expected to consist of 233 acres of residential and 38 acres of mixed-use development. The mixed-use development of the Smith Farm Assemblage is subject to change. Due to the potential variability of land uses, the mixed-use development was not included as an adjacent development in this study. A percentage of traffic was rerouted to use Richardson Road as a cut-through from Olive Chapel to US 64 in the Smith Farm Assemblage TIA. Because of the difference in build-out years and adjacent developments, the Smith Farm Assemblage methodology was used to create the rerouted projected (2019) Smith Farm Assemblage traffic for this study. The combined (2019) Smith Farm Assemblage peak hour traffic includes the site trips from the residential phase and the projected (2019) traffic from the Smith Farm Assemblage TIA. The Smith Farm Assemblage combined (2019) peak hour traffic is illustrated in Figure 3.

Future Roadway Improvements

The original TIA recommended the following roadway improvements:

- Construct the north portion of the Richardson Road Extension.
- Convert the intersection of US 64 and Jenks Road / Richardson Road into a superstreet design and install traffic signals when warranted.
- Construct a U-turn opening on US 64 approximately 800-1,000 feet east of the US 64 and Jenks Road / Richardson Road intersection.
- Construct a U-turn opening on US 64 approximately 800-1,000 feet west of the US 64 and Jenks Road / Richardson Road intersection.

_

• Install a traffic signal at the U-turn locations when warranted.

Since the approval of the original TIA, several other developments in the surrounding area have been approved. These developments have committed to the following roadway improvements that will improve the overall flow of traffic in the area:

Smith Farm Assemblage

- Construct south portion of Richardson Road.
- Signalize Richardson Road and Olive Chapel Road.



Locally Administered Projects Program (LAPP)

• Lane configuration improvements at Olive Chapel Road and Kelly Road.

The Reserve at Beaver Creek

• Signalize Kelly Road and Wendhurst Court / Beaver Creek Commons Drive.

Refer to the attached Future Transportation Improvements Figure for an illustration of the committed roadway improvements in the study area. Each adjacent development has committed to constructing the necessary improvements at existing intersections and future driveways to mitigate the impact that they have on the adjacent roadway network. The most notable improvement will be the completion of the Richardson Road Extension by the Smith Farm Assemblage development. After the construction of the Smith Farm Assemblage, Richardson Road will extend from US 64 to Olive Chapel Road. This new roadway connection is expected to act as an alternative route for Kelly Road and in turn improve the overall delay along Kelly Road. Additionally, a signal will be installed at the intersection of Kelly Road and Wendhurst Court / Beaver Creek Commons Drive as part of the improvements for the Reserve at Beaver Creek development.

Trip Generation

The original TIA consisted of a mix of single-family homes, townhomes, general office space, retail space, and three outparcels (bank, sit-down restaurant, and fast food restaurant). The current plan is assumed to consist of approximately 347 single-family homes, 230 apartments, 63 townhomes, 40,000 square feet (s.f.) of general office, 183,000 s.f. of general retail, one drive-in bank with 4 lanes, a 7,000 s.f. high-turnover sit-down restaurant, and a 3,000 s.f. fast food restaurant with a drive through. Average weekday daily, AM peak hour, and PM peak hour trips for the proposed development were estimated using methodology contained within the ITE *Trip Generation Manual*, 9th Edition and based on NCDOT Congestion Management guidelines. Table 1 (attached) provides a summary of the updated trip generation potential for the site.

Based on the trip generation methodology, it is estimated that full build out will generate approximately 15,870 total site trips on the roadway network during a typical 24-hour weekday period. Of the daily traffic volume, it is anticipated that 832 trips (387 entering and 445 exiting) will occur during the weekday AM peak hour and 1,130 trips (587 entering and 543 exiting) will occur during the weekday PM peak hour after an internal capture rate of 15% and pass-by trips are applied.

The trip generation for the current site plan indicates an approximate 2% decrease of trips during the AM peak hour and an approximate 4% increase of trips during the PM peak hour in comparison to the original TIA. This is due to the slight differences in units between land uses and the addition of apartments within the mixed-use area. It is very beneficial for a roadway network to have a mixture of commercial and residential development. The traffic patterns of a residential area complement the traffic patterns of a commercial or retail development. For example, most drivers are exiting a residential area during the AM peak hour and entering during the PM peak hour, whereas most drivers are entering an office area during the AM peak hour and exiting during the PM peak hour. This creates a balance of movement along the roadway. Developments comprised of only one land use, such as residential, will experience long delays exiting the development during the AM peak hour and long delays entering the development during the PM peak hour.



Site Trip Distribution and Assignment

The original TIA trip distribution percentages were used for this study for the intersections studied in the original TIA with the exception of routing trips to / from the south via the Richardson Road Extension. The trip distribution percentages for the commercial site driveways along Richardson Road were determined based on the TIA distribution and location of uses that would use the driveways. The regional site trip distributions are shown in Figure 4. Refer to the Figure 5 for the total peak hour site trips.

Combined Peak Hour Traffic

To estimate traffic conditions with the current site plan, the total site trips were added to the background (2019) traffic volumes to determine the combined (2019) traffic volumes. Refer to Figure 6 for an illustration of the combined (2019) traffic volumes.

Capacity Analysis

A summary of the capacity analysis results from the original TIA is shown in Table 2 (attached). In the original TIA all intersections operated with an acceptable level of service (LOS) with the exception of the minor-street approaches at the unsignalized intersections of Kelly Road and Beaver Creek Commons Drive and US 64 and Kellyridge Road. It should be noted that HCM 2000 was used to report the unsignalized intersections in the original TIA.

Intersection capacity analysis was performed utilizing the combined (2019) traffic volumes for this study. A summary of the capacity analysis results is shown in Table 3. Capacity analysis for the updated traffic study indicates that all of the study intersections will operate at an acceptable level of service during both the weekday AM and PM peak hours.

Conclusions

This study evaluates the updated land uses and trip generation under future build out conditions of the Sweetwater development.

All of the study intersections from the original TIA are expected to operate at acceptable levels of service under combined (2019) conditions. The updated land uses and trip generation are expected to have a minimal impact on the adjacent roadway network in comparison to the original TIA.

Site trip generation with the current site plan has increased by less than 4% overall in comparison to the original TIA. The current plan for the commercial area includes a reduction in the original residential units, a reduction in retail space, and an addition of 230 apartment units within the commercial area. The adjacent roadway network will benefit from the proposed mixed-use development traffic patterns, as mixed-use development encourages balanced entering and exiting traffic during the weekday peak hours.

Despite the slight increase in trips from the current site plan, the number of trips generated from the Sweetwater development are expected to decrease along US 64. This is largely due to the completion of the Richardson Road Extension by the Smith Farm Assemblage development. The extension creates a direct route to Olive



Chapel Road and is expected to act as an alternative route for Kelly Road and in turn improve the overall delay along Kelly Road.

The signal at Beaver Creek Commons Drive will reduce delays for traffic exiting onto Kelly Road from Wendhurst Court / Beaver Commons Road. Signals on US 64 at Jenks Road / Richardson Road as part of the superstreet will provide gaps on US 64 that allow nearby unsignalized intersections to experience less delay than existing conditions.

Recommended Improvements by Developer

Based on the findings of this traffic study, specific geometric improvements have been identified and are recommended to accommodate future traffic conditions. See a more detailed description of the recommended improvements below. Refer to Figure 7 for an illustration of the recommended lane configuration.

It is recommended that a direct internal connection be made within Site Area A between Site Drive 1 and Site Drive 2.

Richardson Road and Site Drive 1

- Construct the eastbound approach of Site Drive 1 with one ingress lane and two egress lanes (exclusive left turn lane and shared through-right lane).
- Provide an internal protected stem with a minimum of 150 feet at the eastbound approach.
- Construct the westbound approach of Site Drive 1 with one ingress lane and two egress lanes (exclusive left turn lane and shared through-right lane).
- Construct Richardson Road as a four-lane median divided roadway. Provide exclusive left turn lanes on the northbound and southbound approaches with a minimum of 100 feet of storage for each lane.

Richardson Road and Site Drive 2

- Construct the eastbound approach of Site Drive 2 with one ingress lane and one egress lane.
- Provide an internal protected stem with a minimum of 150 feet at the eastbound approach.

- Construct the westbound approach of Site Drive 2 with one ingress lane and one egress lane.
- Construct Richardson Road as a four-lane median divided roadway. Provide exclusive left turn lanes on the northbound and southbound approaches with a minimum of 100 feet of storage for each lane.
- Install a traffic signal if and when warranted. Coordinate timings with NC 64 and Richardson Road.



If you should have any questions, please feel free to contact me at (919) 872-5115.

Sincerely, RAMEY KEMP & ASSOCIATES, INC. Rynal Stephenson, P.E. Regional Manager NC Corporate License # C-0910 20-16

cc: Russell Dalton, Town of Apex Public Works

Attachments: Analysis Tables Figures Synchro Reports

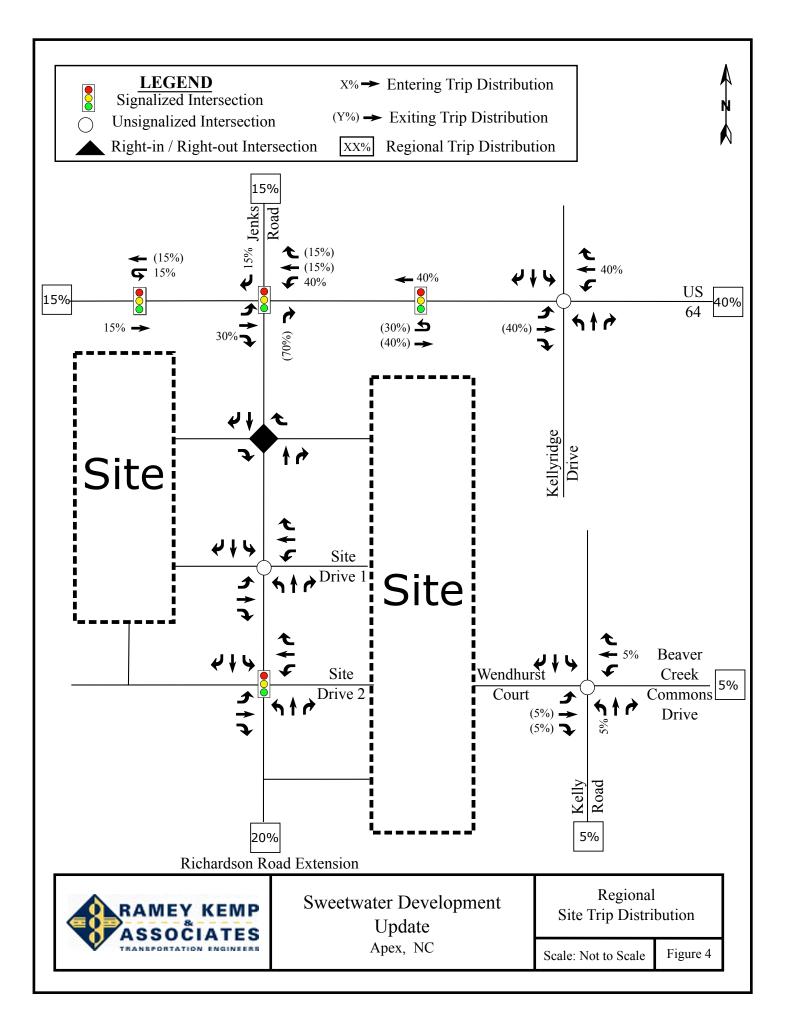


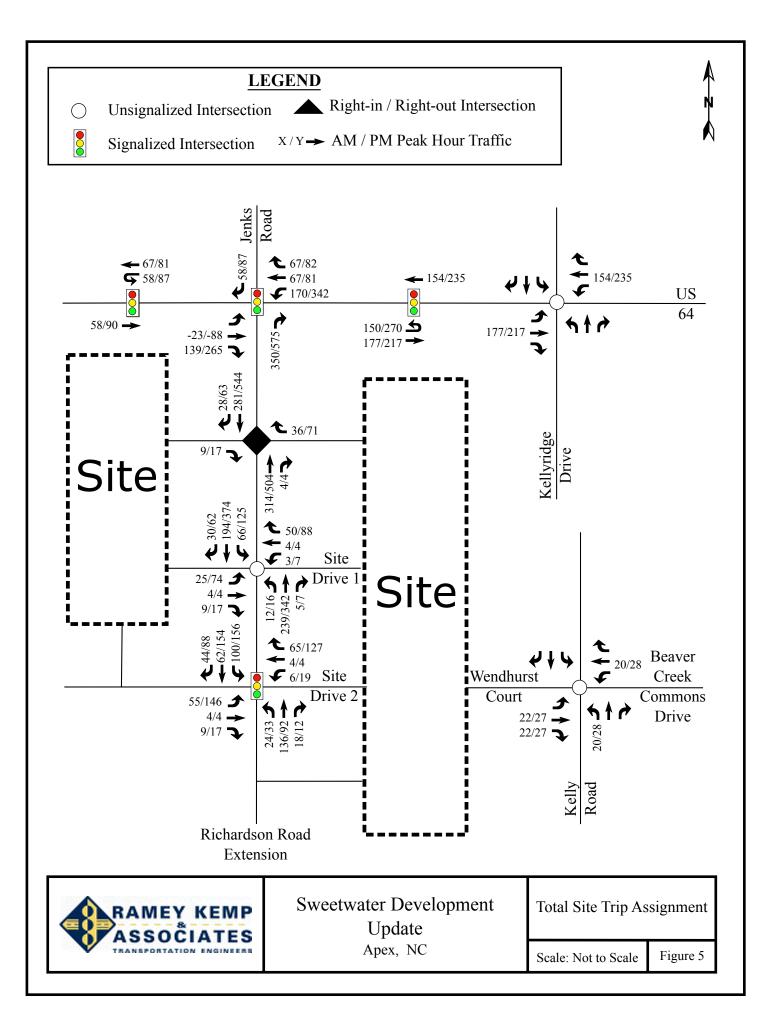
Land Use (ITE Code)	Size	Unit	Weekday 24 Hour	AM Pe	kday ak Hour ips	Wee PM Pea Tr	k Hour
(Volumes	Enter	Exit	Enter	Exit
Single-Family Detached Housing (210)	347	Dwelling Units	3,300	65	195	219	128
Mid-Rise Apartments (223)	230	Dwelling Units	1,520*	21	48	52	38
Townhomes (230)	63	Dwelling Units	370	5	23	22	11
General Office (710)	40,000	Square Feet	440	55	7	10	50
General Retail (820)	183,000	Square Feet	10,100	140	85	431	467
Drive-In Bank** (912)	4	lanes	560	22	15	65	68
High-Turnover Restaurant (932)	7,000	Square Feet	890	49	44	70	59
Fast Food w/ Drive Through (934)	3,000	Square Feet	1,490	69	67	51	47
Sul	btotal		18,670	426	484	920	868
Internal C	apture (15%)		2,800	0	0	138	130
Pa	ss-By			39	39	195	195
Total Up	dated Trips		15,870	387	445	587	543

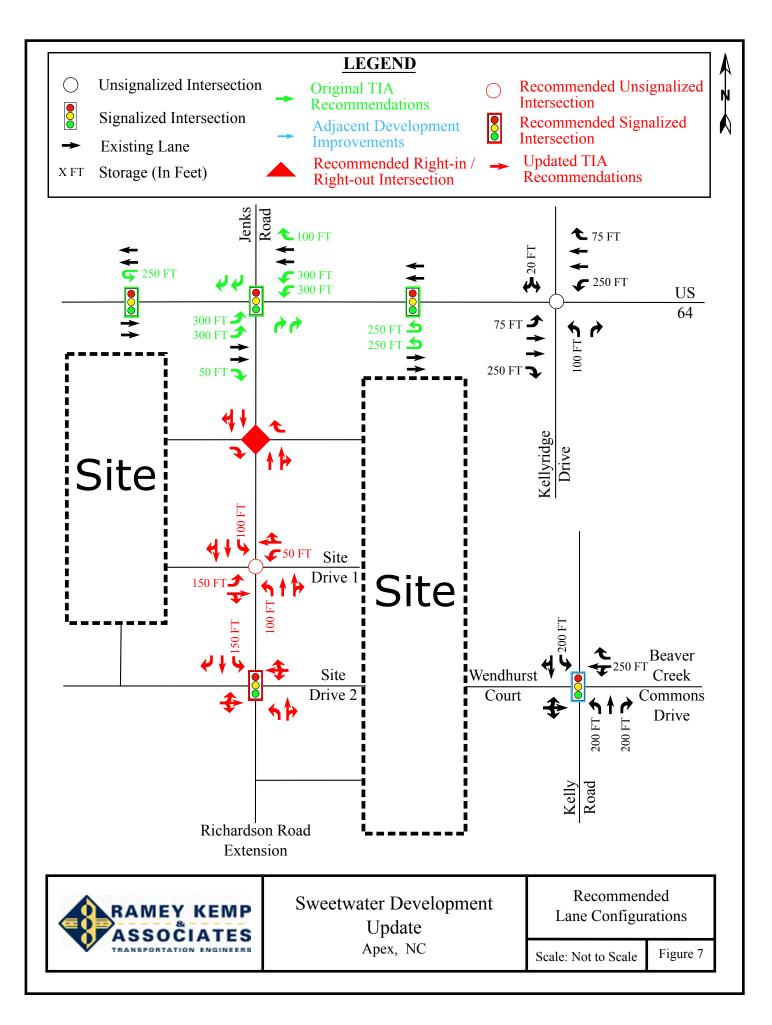
Table 1Updated Trip Generation Summary – Full Build Out

*Land use code 220 was used to calculate the Weekday Daily trips due to limitations in the ITE Trip Generation Manual. **Lanes instead of square footage were used to calculate trip generation for drive-in bank.









Mott MacDonald (License No. F-0669) 7621 Purfoy Road Suite 115 Fuquay-Varina NC 27526 United States of America

T +1 (919) 552 2253 F +1 (919) 552 2254 mottmac.com

Curry Engineering 205 S Fuquay Avenue Fuquay-Varina, NC 27526

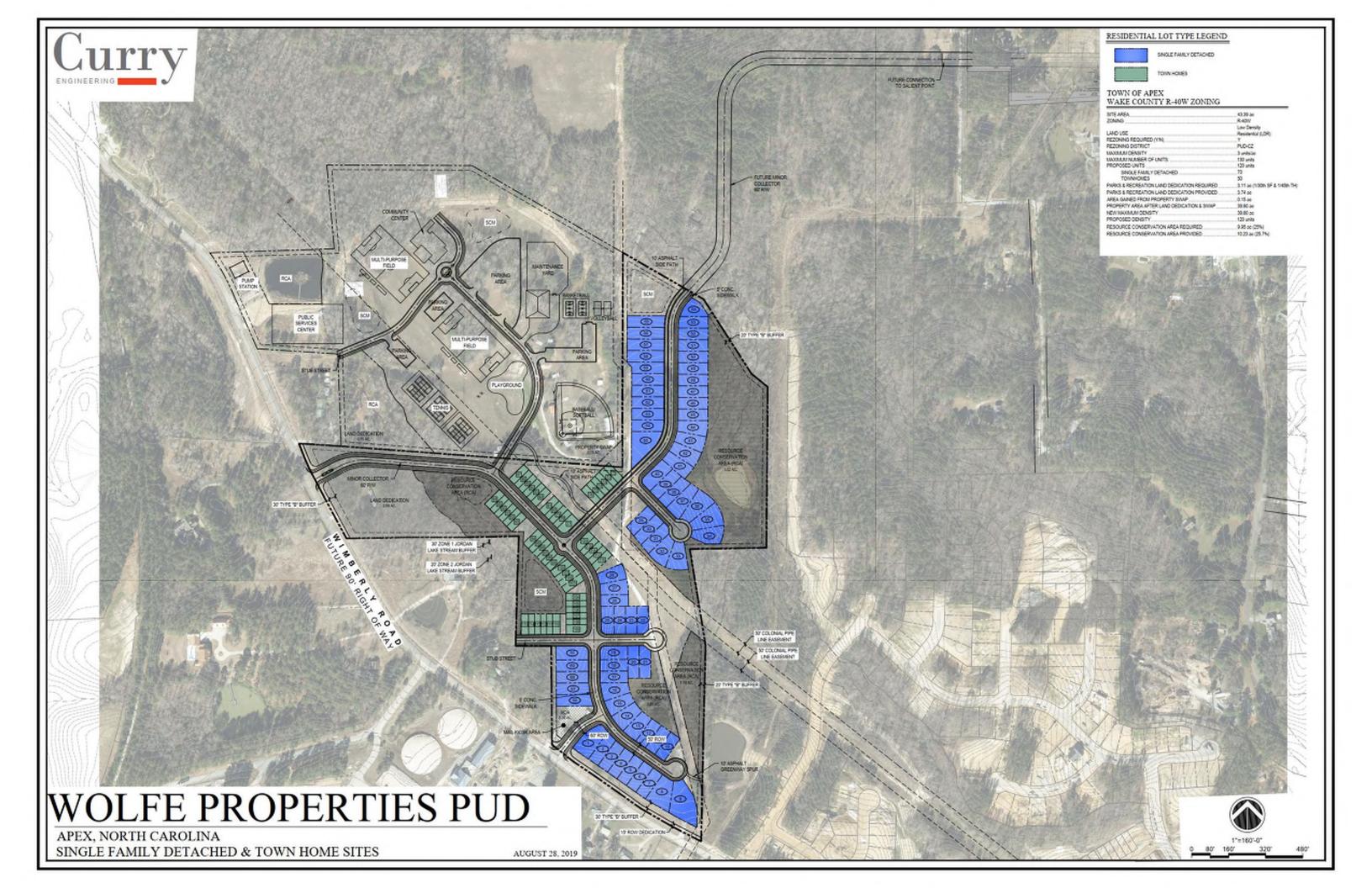
Wolfe Properties PUD

Traffic Impact Analysis

November 2019



Curry Engineering



4 Build (2025) Conditions

As previously described, a residential development consisting of 70 single-family homes and 50 townhomes is being proposed on the east side of Wimberly Road, between Green Level West Road and Jenks Road, in Apex, NC. Per the site plan, the proposed development will provide two full accesses along Wimberly Road. The northern driveway (Access #1) is approximately 0.9 miles south of Castleberry Road, while the southern driveway (Access #2) is approximately 0.4 miles north of Jenks Road. The development is anticipated to be fully constructed by 2025.

4.1 Trip Generation and Distribution

Trip generation was estimated based on the *ITE Trip Generation Manual*, 10th Edition and NCDOT Congestion Management guidelines. As shown in **Table 6**, the development is anticipated to generate 1,086 daily trips, 79 AM peak hour trips (19 entering, 60 exiting) and 104 PM peak hour trips (65 entering, 39 exiting).

Land Use	Unite	Dallar	AM F	Peak	PM F	Peak
(ITE Land Use Code)	Units	Daily	Enter	Exit	Enter	Exit
Single Family Detached (210)	70	749	13	41	45	27
Townhomes (220)	50	337	6	19	20	12
Total	120	1,086	19	60	65	39

Table 6: Trip Generation Results

Source: ITE Trip Generation Manual, 10th Edition

Most of the projected site trips are anticipated travel west along Jenks Road to US 64. The site trip distribution percentages for the proposed development are shown in Figure 6, with the resulting site trips shown in Figure 7.

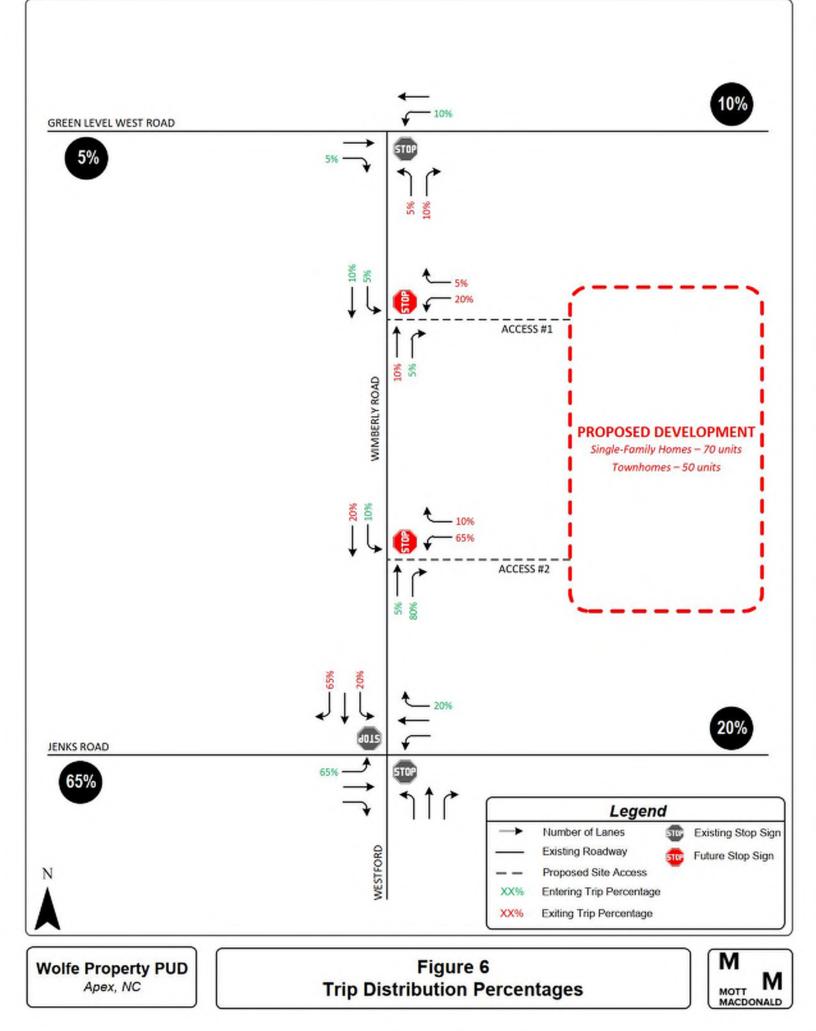
4.2 Level of Service Analysis

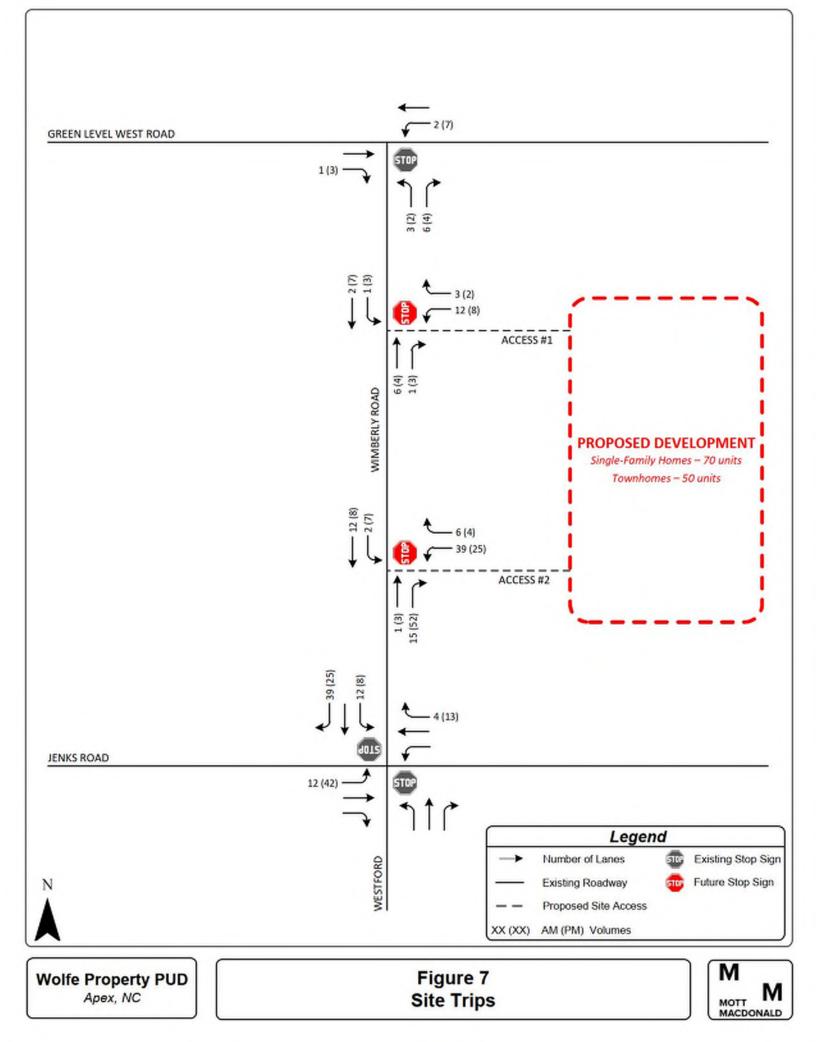
The Build (2025) scenario consists of the Background (2025) traffic as discussed previously with the addition of site generated trips from the proposed development. The volumes that are used in the Build (2025) analysis are shown in **Figure 8**. The laneage and traffic control used for the Build (2025) scenario is based on the existing conditions shown in **Figure 3**. The summary level of service results are shown in **Table 7**.

As shown in **Table 7**, the stop-controlled and yield movements at both study area intersections are currently operating at LOS C or better during the AM and PM peak hours.

The newly constructed accesses along Wimberly Road are projected to operate acceptably in both the AM and PM peak hours, with the access approaches operating at LOS B or better and the southbound left-turn movements operating at LOS A in both the AM and PM peak hours.

The Build (2025) analysis results are located in Appendix F.





Traffic Impact Analysis for

The Retreat at the Preserve at White Oak Apex, North Carolina

Prepared for:

TaylorMorrison Cary, North Carolina

Prepared by:

Kimley-Horn and Associates, Inc. NC License #F-0102 300 West Morgan Street, Suite 1500 Durham, NC 27701 (919) 682-3583

> March 2021 017270007



3.0 Traffic Generation

The traffic generation potential of the proposed development was determined using the traffic generation data published in *Trip Generation* (Institute of Transportation Engineers, Tenth Edition, 2017). As currently envisioned, the redevelopment is expected to include 80 townhomes and 22,000 square feet (SF) of commercial space, which are anticipated to be completed as two separate projects: Scenario #1 (residential only) and Scenario #2 (commercial + residential). Specific commercial uses are not known at this time, but this analysis assumed the commercial space would include a 14,000 SF daycare center and 8,000 SF of medical office space.

As shown in <u>Table 3.1</u>, Scenario #1 has the potential to generate 39 net new external trips in the AM peak hour and 48 net new external trips in the PM peak hour on a typical weekday, which are well below the Town of Apex peak hour thresholds for requiring a TIA.

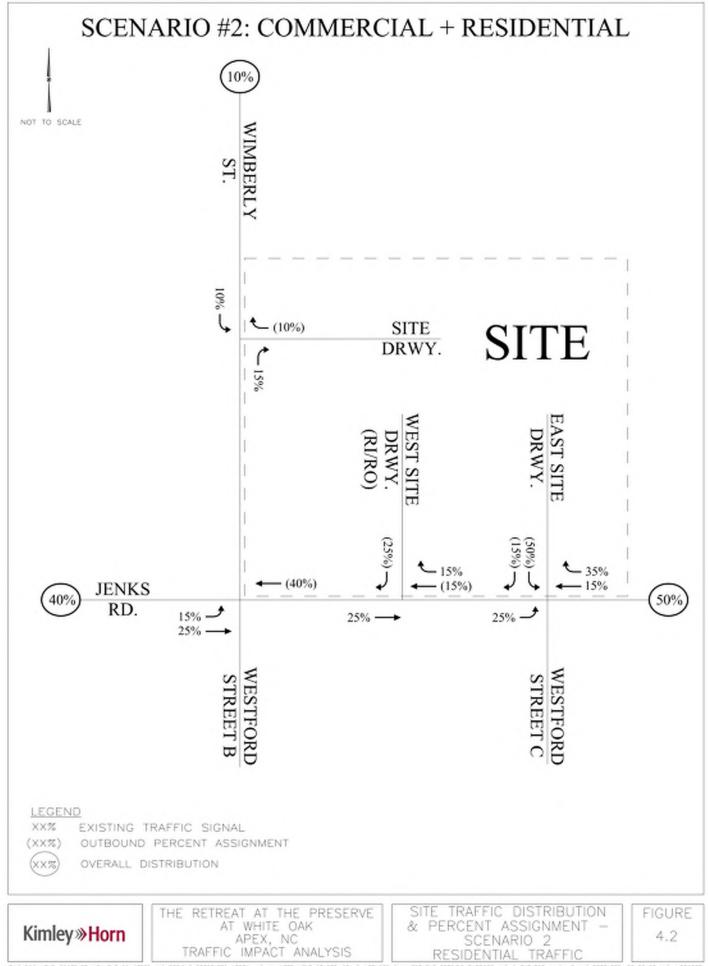
	۲ ITE Traffic Generation (Vehic	les) –		nrio #1 (R	tesidentia	l Only)	
Land Use Code	Land Use	Intensity		AM Peak Hour		PM Peak Hour	
			nony	In	Out	In	Out
221	Multifamily Housing (Low-Rise)	80	d.u.	9	30	30	18

As shown in Table 3.2, Scenario #2 has the potential to generate 215 net new external trips in the	
AM peak hour and 231 net new external trips in the PM peak hour on a typical weekday.	

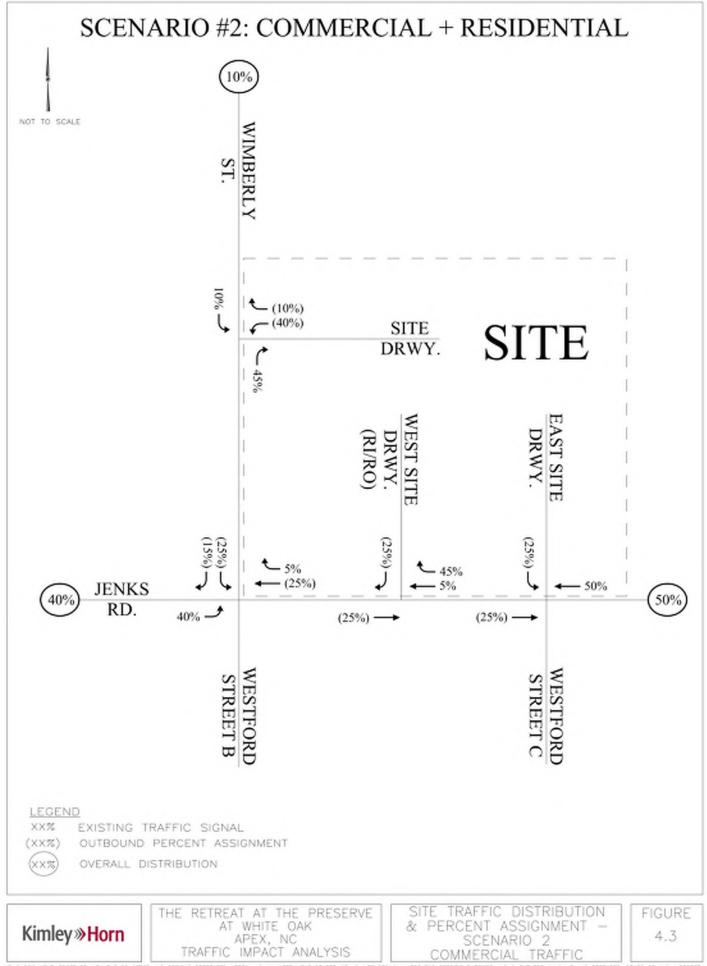
ITE Tr	affic Generation (Vehic	Table les) – Sce		2 (Comm	nercial + I	Residenti	al)
Land Use Code	Land Use	Intensity		AM Peak Hour		PM Peak Hour	
				In	Out	In	Out
221	Multifamily Housing (Low-Rise)	80	d.u.	9	30	30	18
565	Daycare Center	14,000	s.f.	82	72	73	83
820	Medical Office	8,000	s.f.	19	5	8	21
Subtotal				110	107	111	122
Internal Capture				1	1	1	1
Total Net New External Trips			109	106	110	121	

Internally captured trips are trips that begin and end on the project site and do not access the external roadway network. Institute of Transportation Engineers (ITE) capture rates published in the *Trip Generation Handbook* indicate that the internal capture between the proposed Scenario #2 land uses will be approximately 1% in both peak hours.

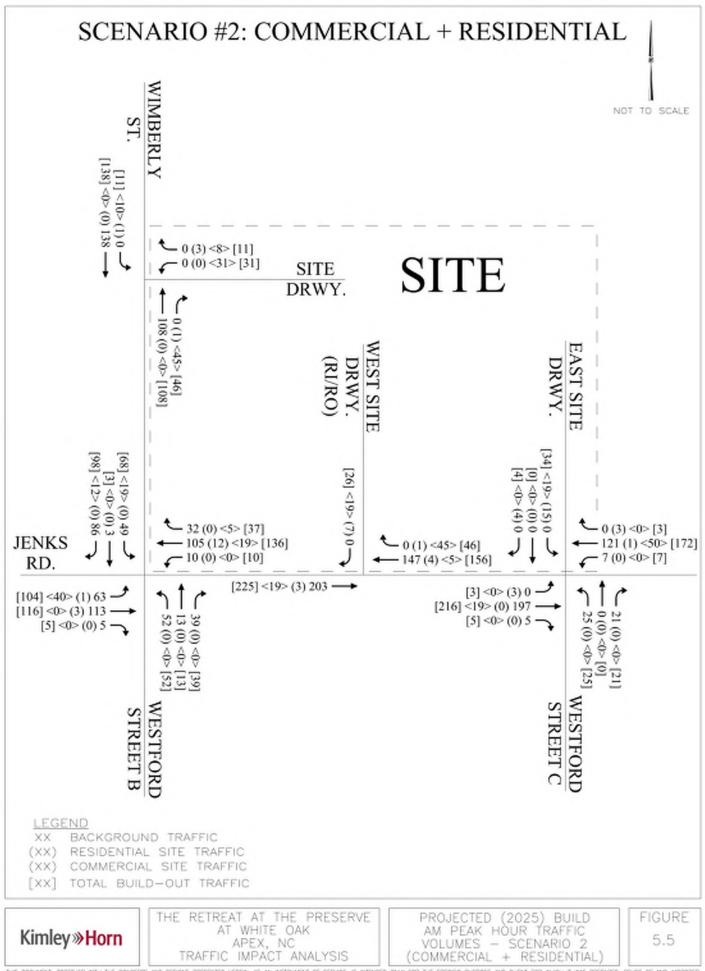
It should also be noted that while a significant portion of daycare trips (particularly in the PM peak hour) are anticipated to be diverted link trips per ITE, no such trip generation adjustments



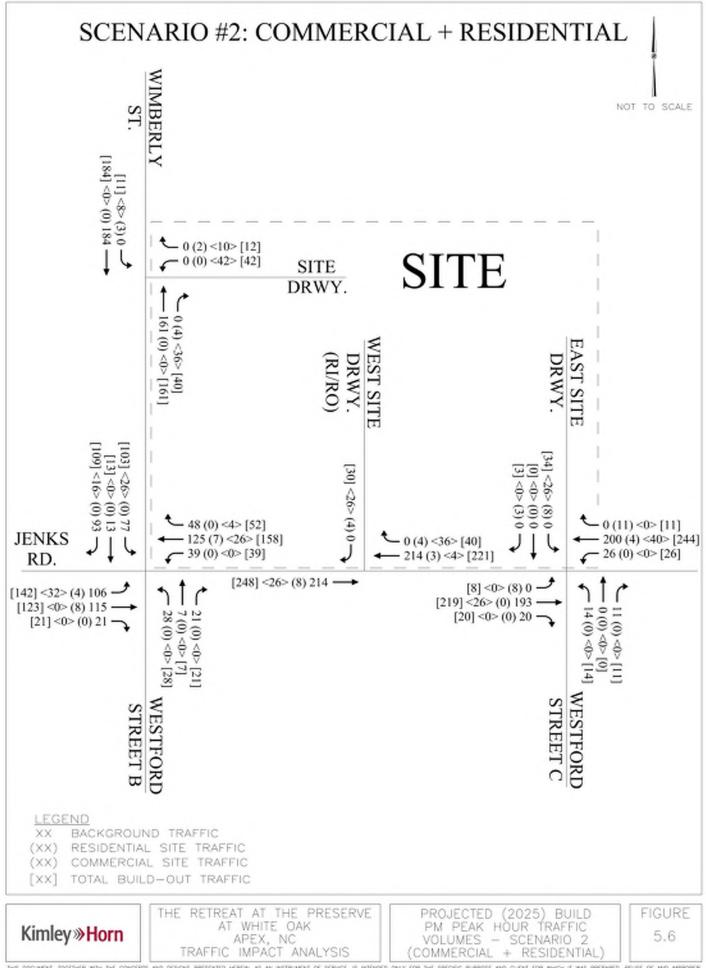
THIS DOCUMENT, TOOTHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTERDED ONLY FOR THE SPECIFIC PURPOSE AND CUENT FOR MICH IF AND PREFARED. REUSE OF AND IMPROPER RELIVICE ON THIS DOCUMENT WITHOUT WRITEN AUTHORIZATION AND ADAPTATION BY KINLEY-HORN AND ASSOCIATES. INC. SHALL BE WITHOUT LIABLITY TO KINLEY-HORN AND ASSOCIATES. INC.



THIS DOCUMENT, TOOTHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTERDED ONLY FOR THE SPECIFIC PURPOSE AND CUENT FOR MICH IF AND PREFARED. REUSE OF AND IMPROPER RELIVICE ON THIS DOCUMENT WITHOUT WRITEN AUTHORIZATION AND ADAPTATION BY KINLEY-HORN AND ASSOCIATES. INC. SHALL BE WITHOUT LIABLITY TO KINLEY-HORN AND ASSOCIATES. INC.



THIS DOCUMENT, TOOTHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTERDED ONLY FOR THE SPECIFIC PURPOSE AND CUENT FOR MHCH IT WAS PREFARED. REUSE OF AND IMPROPER RELEVACE ON THIS DOCUMENT WITHOUT WRITEN AUTHORIZATION AND ADAPTATION BY KINEY-HORN AND ASSOCIATES. INC. SHALL BE WITHOUT LIABULITY TO KINEY-HORN AND ASSOCIATES. INC.



THIS DOCUMENT, TOOTHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTERDED ONLY FOR THE SPECIFIC PURPOSE AND CUENT FOR MHCH IT WAS PREFARED. REUSE OF AND IMPROPER RELEVACE ON THIS DOCUMENT WITHOUT WRITEN AUTHORIZATION AND ADAPTATION BY KINEY-HORN AND ASSOCIATES. INC. SHALL BE WITHOUT LIABULITY TO KINEY-HORN AND ASSOCIATES. INC.

Kimley »Horn

KIMLEY-HORN AND ASSOCIATES, INC NC License #F-0102

MEMORANDUM

То:	Russell Dalton, PE, Town of Apex Jeremy Warren, PE, NCDOT
From:	Travis Fluitt, PE, Kimley-Horn and Associates
Date:	August 23, 2022
Subject:	Westford Mixed-Use – Apex, NC – TIA Addendum



Kimley-Horn has prepared an addendum to the *Westford Mixed-Use TIA* (Kimley-Horn, April 2022) to evaluate the impacts of potential revisions to the access configuration of "Site Driveway 2" on Jenks Road southwest of Lowell Road. The original TIA assumed that Site Driveway 2 would be constructed as a full-movement driveway, but based on comments from the Town of Apex the driveway may be constructed as a right-in/right-out access instead.

Volume Development

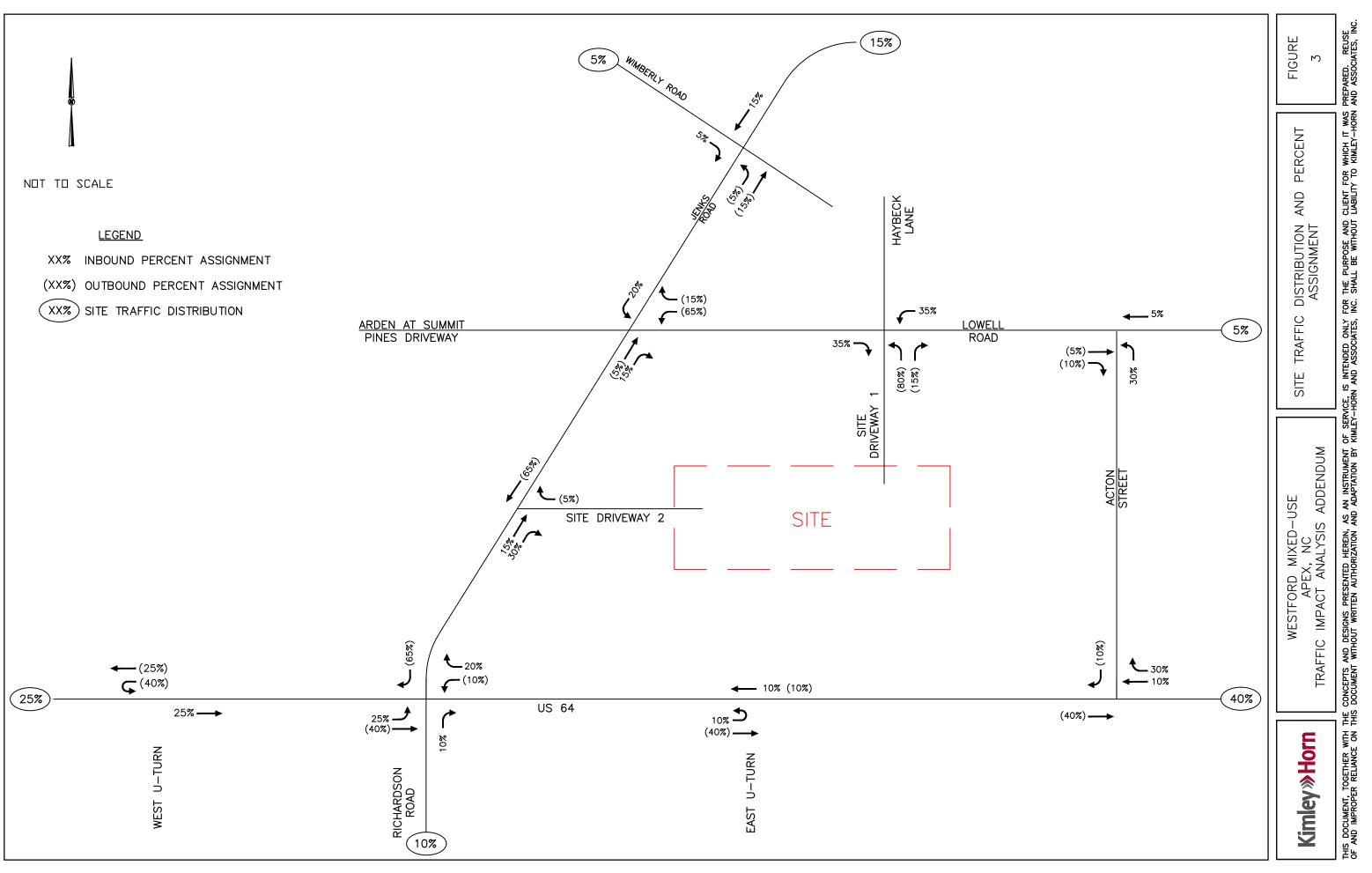
Existing AM and PM peak hour volumes were obtained from the original TIA and not modified for this analysis. Based on discussions with the Town of Apex, in addition to the background growth and approved development traffic included in the original TIA, site traffic from the Arden at Summit Pines development was included as background traffic in this addendum along with roadway improvements committed as part of zoning conditions with that project. Per the *Arden at Apex TIA* (RKA, March 2022) that project proposes the construction of 163 multifamily senior adult dwelling units and 10,000 square feet (SF) of strip retail space, and build-out is anticipated in 2024. The revised projected (2025) AM and PM peak hour background traffic volumes are shown on **Figures 1 and 2**, respectively.

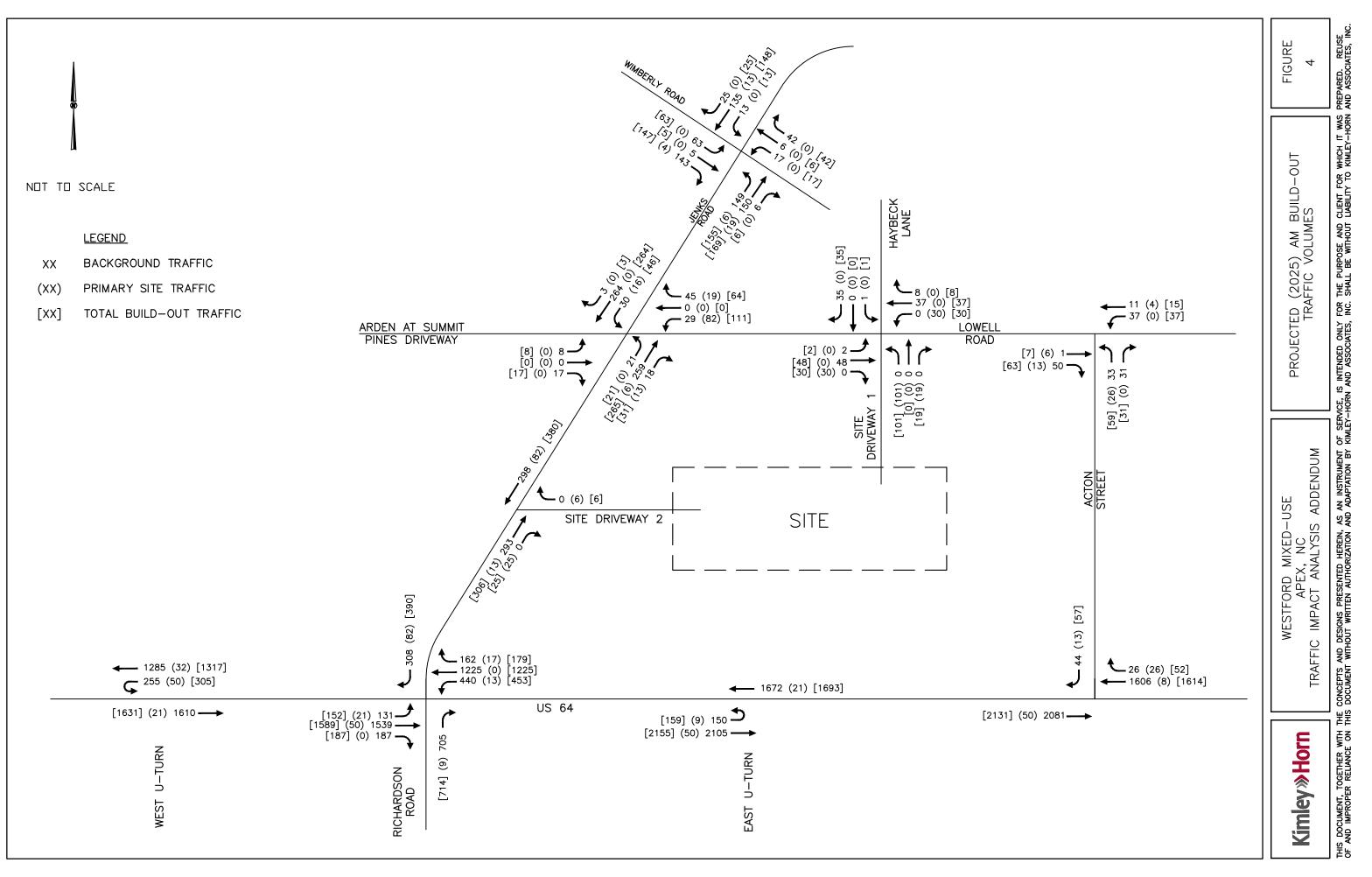
No changes were made to the overall site traffic distribution from the original *Westford Mixed-Use TIA* as part of this addendum, thought the primary and pass-by traffic assignments were updated to reflect the change in access configuration of Site Driveway 2. The revised overall site traffic distribution and assignment is shown on **Figure 3**.

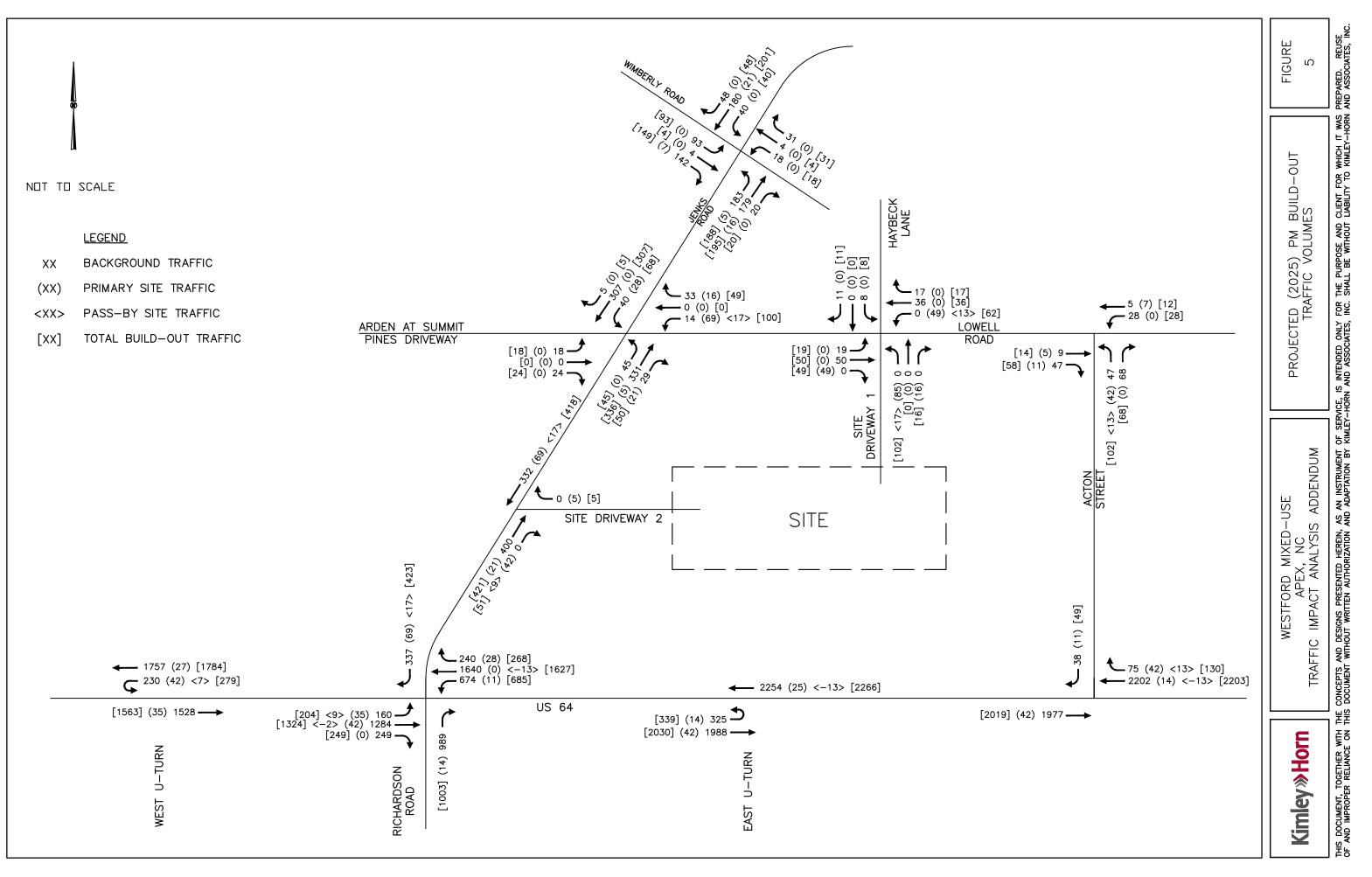
The updated AM and PM peak hour build-out traffic volumes are shown on Figures 4 and 5, respectively.

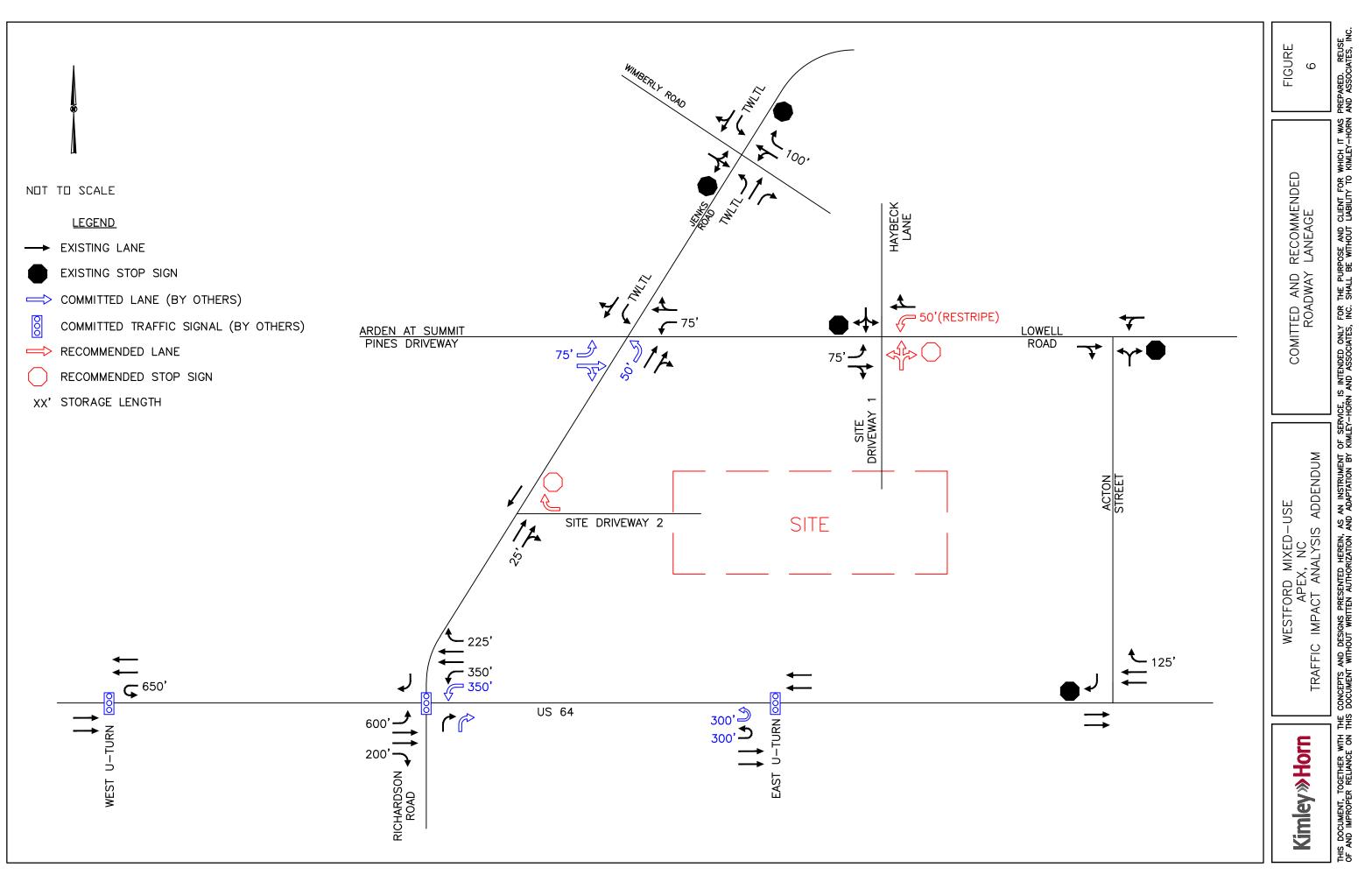
Capacity Analysis

Capacity analyses were performed using Synchro Version 11 software. <u>Table 1</u> summarizes the LOS and delay at the study intersections, and Synchro LOS reports are attached. As no changes were made to the existing traffic condition analyses, those findings were not included in the LOS summary.









TRAFFIC IMPACT ANALYSIS

US 64 Light Industrial

Apex, North Carolina

PREPARED FOR

Drew Thigpen Greenberg Gibbons Properties 4929 Monroe Road Charlotte, NC 28205 843.469.2517

PREPARED BY



VHB Engineering NC, P.C. (C-3075) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606 919.829.0328

12/20/2022



US 64 Light Industrial TIA



Executive Summary

Greenberg Gibbons Properties has plans to develop the US 64 Light Industrial development in Apex, North Carolina (Figure 1). The development is currently proposed to consist of 290,000 square feet (sf) of light industrial, 160,000-sf of flex space and 30,800-sf of retail. The is estimated year of opening for the site is 2027.

Project Background

Based on the conceptual site plan (Figure 2), access to the development is proposed via one (1) vehicular driveway on US 64 and two (2) vehicular driveways on Goodwin Road:

- Future Access #1, right-in/right-out (RI/RO) access on US 64, approximately 1,100 feet east of Goodwin Road and 1,200 feet west of Jenks Road.
- > Future Access #2, full movement access driveway on Goodwin Road, approximately 400 feet north of US 64.
- Future Access #3, full movement access on Goodwin Road, approximately 800 feet north of US 64.

In addition, an extension of Lowell Road via adjacent parcels to the east is planned to provide a connection from Goodwin Road to Jenks Road at the Lowell Road intersection. Due to the uncertainties regarding this extension, two (2) access scenarios (Scenario A and Scenario B) are included in the TIA to analyze traffic conditions without and with the Lowell Road Extension to Jenks Road.

As determined through the project scoping process with the North Carolina Department of Transportation (NCDOT) and the Town of Apex, the following intersections were included in the study area and analyzed for existing and future conditions, as applicable:

- > US Highway 64 WB and Jenks Road (SR 1601) (unsignalized, future signalized RCI)
- > US Highway 64 EB and Richardson Road (unsignalized, future signalized RCI)
- > US Highway 64 EB and U-turn west of Jenks Road (SR 1601) (unsignalized, future signalized RCI)
- > US Highway 64 WB and U-turn east of Richardson Road (unsignalized, future signalized RCI)
- > US Highway 64 and Goodwin Road (SR 1602) (unsignalized, future RCI)
- > Jenks Road (SR 1601) and Lowell Road/ Future Lowell Road Extension (unsignalized)
- > Jenks Road (SR 1601) and Wimberly Road (SR 1603) (unsignalized)
- > US Highway 64 WB and Future Access #1 (future RI/RO)
- > Goodwin Road (SR 1602) and Future Access #2 (future unsignalized)
- > Goodwin Road (SR 1602) and Future Access #3 (future unsignalized)

The following scenarios were analyzed for existing and future conditions to evaluate the impacts that the proposed development may have on the surrounding roadway network:

- > Existing (2022) Conditions
- > No-Build (2027) Conditions
- > Build Scenario A (2027) Conditions without Lowell Road Extension to Jenks Road
- > Build Scenario B (2027) Conditions with Lowell Road Extension to Jenks Road
- > Build Scenario A (2027) with Improvements Conditions
- > Build Scenario B (2027) with Improvements Conditions

The Existing (2022) scenario includes typical weekday AM and PM peak hour analysis based on turning movement count data collected in April and June 2022. The No-Build (2027) scenario includes existing traffic with an annual projected background growth rate in addition to site trips from eight (8) nearby background developments. The Build (2027) scenarios include No-Build (2027) volumes with the addition of site trips generated by the full build-out of the proposed development under Scenario A and Scenario B Conditions. Recommended lane configuration and traffic control improvements for each Build (2027) scenario are analyzed within the Build (2027) with Improvements scenarios.

Existing (2022) Conditions

Existing analyses were conducted based on current roadway geometrics and intersection turning movement counts collected in April and June 2022. No adjustments were applied to the collected turning counts since traffic volumes were consistent with historical annual average daily traffic (AADT) data.

As reported in the Summary Level of Service (LOS) table on page vii, multiple stop-controlled approaches along US 64 are operating at failing levels (LOS E or F) during at least one peak hour. Northbound Richardson Road at US 64 EB is operating at LOS F during the AM peak hour and LOS E

during the PM peak hour, and southbound Goodwin Road at US 64 is operating at LOS D during the AM peak hour and LOS F during the PM peak hour. The left-turn from US 64 EB to Jenks Road is operating at LOS E during the AM peak hour and LOS F during the PM peak hour, and the left-turn from US 64 WB on to Richardson Road is operating at LOS F during both peak hours. All other stop-controlled approaches are operating acceptably (LOS D or better) during both peak hours.

No-Build (2027) Conditions

Based on instructions from the Town of Apex, an annual growth rate of two percent (2%) was utilized to calculate ambient growth between the existing year (2022) and the build-out year (2027). Eight (8) background developments were identified within the study area, and the projected peak hour trips from these developments were included in the No-Build (2027) volume calculations:

- > Sweetwater Commercial
- > Kiddie Academy
- > Westford Mixed-Use
- > Arden at Apex
- > Alderwood (The Retreat at the Preserve at White Oak Creek)
- > Park at Wimberly (Wolfe Properties)
- > Legacy PUD (US 64 Residential)
- > Triangle Math and Science Academy (Lower + Upper Schools)

The NCDOT and the Town of Apex developed a master plan to preserve and enhance mobility and safety while balancing community access and interests along the US Highway 64 corridor. As indicated in the US 64 Corridor Study, a short-term solution for US 64 in the study area is to construct Reduced Conflict Intersections (RCIs) before the US 64 corridor will eventually be upgraded to a controlled access freeway. Therefore, the RCI design was incorporated in this study to be consistent with NCDOT's and the Town's vision for US Highway 64.

Among the committed improvements by background developments, signalization and turn lane improvements are planned at the US 64 and Jenks Road/ Richardson Road RCI intersections by Sweetwater Commercial. A new signal is committed to be installed at US 64 and Goodwin Road by Legacy PUD once it is warranted. In addition, turn lane improvements are planned on the eastbound approach of Wimberly Road at Jenks Road by Park at Wimberly, and a fourth leg is to be constructed at Jenks Road and Lowell Road by Arden at Apex.

As shown on the Summary LOS table on page vii, the signalized RCI intersections along US 64 at Jenks Road/ Richardson Road and the two U-turn locations are expected to operate at LOS C or better during both the AM and PM peak hours, and the intersection of US 64 at Goodwin Road is expected to operate at LOS A during both peak hours after a traffic signal is installed. The stop-controlled approaches along Jenks Road are all expected to operate acceptably (LOS D or better) during both peak hours.

US 64 Light Industrial TIA

Trip Generation and Assignment

Trip generation was conducted based on the most appropriate corresponding trip generation codes included in the *ITE Trip Generation Manual*, *11th Edition* and the suggested method of calculation in the NCDOT's *"Rate vs. Equation" Spreadsheet*. Based on the proposed land uses at the site, ITE Land Use Code (LUC) 110 (General Light Industrial), LUC 770 (Business Park), and LUC 822 (Strip Retail Plaza (<40k-sf)) were used in the TIA. Internal capture between mixed uses were calculated based on the NCHRP 684 methods with the NCDOT Internal Capture worksheet.

As a result, the proposed development is projected to generate 4,806 daily external weekday site trips, with 441 external trips (378 entering, 63 exiting) occurring in the AM peak hour and 468 external trips (148 entering, 320 exiting) occurring in the PM peak hour. The generated site trips were distributed in accordance with the existing turning movement counts and land uses.

Build (2027) Conditions

The Build (2027) conditions account for both the No-Build traffic and site traffic generated by the proposed development after the completion. The surrounding roadway network without the proposed cross-connection to Arden at Apex is analyzed in Scenario A, and the proposed cross-connection from the development to Arden at Apex is analyzed in Scenario B.

As shown on the Summary LOS table on page vii, with the addition of site trips, the signalized RCI intersections along US 64 at Jenks Road and Richardson Road are expected to continue to operate acceptably during both peak hours with some delay increases. Under Scenario A, the U-turn movement along US 64 west of Goodwin Road is expected to operate at LOS F during the PM peak hour, and the U-turn movement along US 64 at Goodwin Road is expected to operate at LOS E during the PM peak hour. Both U-turn movements are projected to operate at acceptable levels of services under Scenario B. Stop-controlled eastbound Wimberly Road at Jenks Road is projected to operate at LOS E during the PM peak hour under both scenarios. Stop-controlled Future Access #1 along US 64 is expected to operate at LOS E during the PM peak hour under both scenarios A conditions only. All stop-controlled future driveways along Goodwin Road are expected to operate at LOS B or better during both peak hours under either scenario.

Roadway Improvement Recommendations

As indicated in the traffic capacity analyses, the proposed development is not projected to have a significant impact on the traffic operations at the study area intersections. However, improvements at some locations are recommended with <u>either Scenario A or Scenario B in place</u>.

US 64 Eastbound at U-Turn West of Goodwin Road (future unsignalized)

With the construction of the US 64 Light Industrial development, the existing full movement intersection at US 64 and Goodwin Road is proposed to be converted to a RCI configuration to be consistent with the NCDOT and Town of Apex plans for the US 64 corridor. To complete this reconfiguration, left-turns will be restricted off of Goodwin Road, and a new U-turn bulb will be constructed to accommodate the left-turns exiting Goodwin Road. It is assumed that the left-turn

onto Goodwin Road from US 64 Eastbound and the right-turn off of Goodwin Road will remain signalized since a traffic signal is committed to be installed by others once it is warranted under the No-Build (2027) condition.

Under Build (2027) Scenario A conditions, this proposed U-turn movement is projected to operate at LOS F during the PM peak hour. The U-turn movement will likely not warrant the installation of a traffic signal after the build-out of the development, but if the cross-connection to Arden at Apex is not made, this U-turn movement could provide a primary choice for vehicles heading eastbound on US 64. As a result, this U-turn location should be monitored for signalization to assist site traffic exiting and heading eastbound on US 64.

- > Construct a U-turn lane with at least 450 feet of storage and appropriate taper (both access scenarios).
- > Monitor intersection for signalization (Scenario A only)

US 64 Westbound at Jenks Road (SR 1601) (future signalized)

The future signalized intersection is expected to operate LOS B during the AM peak hour and LOS D during the PM peak hour under Scenario B conditions. With Scenario B in place, more site traffic is expected to utilize Jenks Road to access US 64 through signalized RCI intersections. To facilitate such movement and alleviate queuing concerns, the following lane improvement is recommended under Scenario B assuming the Lowell Road Extension is in place.

> Construct a second exclusive right-turn lane along Jenks Road with at least 250 feet of storage and appropriate taper (Scenario B only).

Jenks Road (SR 1601) at Wimberly Road (SR 1603) (unsignalized)

Eastbound stop-controlled Wimberly Road is expected to operate at LOS E during the PM peak hour under both Build (2027) scenarios. A traffic signal is not expected to be warranted, and dedicated turn lanes are already in place or planned by others at this intersection. Since the development is not expected to contribute a significant amount of site traffic to this approach, and the approach can operate at LOS E in the PM peak hour only without significant queueing and delays expected, no improvements are recommended for this intersection.

Jenks Road (SR 1601) at Lowell Road/ Arden at Apex Driveway (unsignalized)

Arden at Apex is planning to construct a fourth leg at this intersection with two approach lanes. Under either Build (2027) scenario, both stop-controlled eastbound and westbound approaches are expected to operate at LOS B or LOS C during both peak hours. Since the eastbound approach is not expected to experience significant delay or queueing increases with the additional site traffic along the approach under Scenario B, no additional roadway improvements are recommended along the Arden at Apex driveway to accommodate the future cross-connection.

As indicated in the access scenario analysis, the proposed cross-connection to Arden at Apex is not expected to impact operations at any of the proposed site access driveways along Goodwin Road and US 64. Therefore, the following lane configurations are recommended for each site access driveway <u>under both access scenarios</u>.

US Highway 64 and Future Access #1 (unsignalized)

Stop-controlled Future Access #1 is expected to operate at LOS C during the AM peak hour and LOS E during the PM peak hour under Build (2027) Scenario A, while it is expected to operate at LOS C in the AM and LOS D in the PM peak hour under Scenario B. Future traffic volumes at this location warrant a dedicated right-turn lane along westbound US 64. Therefore, the following lane configurations are recommended for the driveway connection:

- > Construct Future Access #1 with a single ingress lane and single egress lane while restricting access to right-in/right-out only.
- > Provide an exclusive right-turn lane along westbound US 64 with at least 150 feet of storage and appropriate taper.

Goodwin Road (SR 1603) at Future Access #2 (unsignalized)

Stop-controlled Future Access #2 is expected to operate at LOS A during both peak hours under both Build (2027) scenarios. Goodwin Road is a low volume road that doesn't require turn lane considerations. The following lane configurations are recommended for the driveway connection:

> Construct Future Access #2 as a full movement driveway with one ingress lane and one egress lane.

Goodwin Road (SR 1603) at Future Access #3 (unsignalized)

Stop-controlled Future Access #3 is expected to operate at LOS A during both peak hours under both Build (2027) scenarios. As Access #3 may connect to Lowell Road Extension in the future, the following lane configurations are recommended for planning considerations:

> Construct Future Access #3 as a full movement driveway with one ingress lane and two egress lanes. Provide at least 75 feet of storage for the exclusive left-turn lane along Future Access #3.

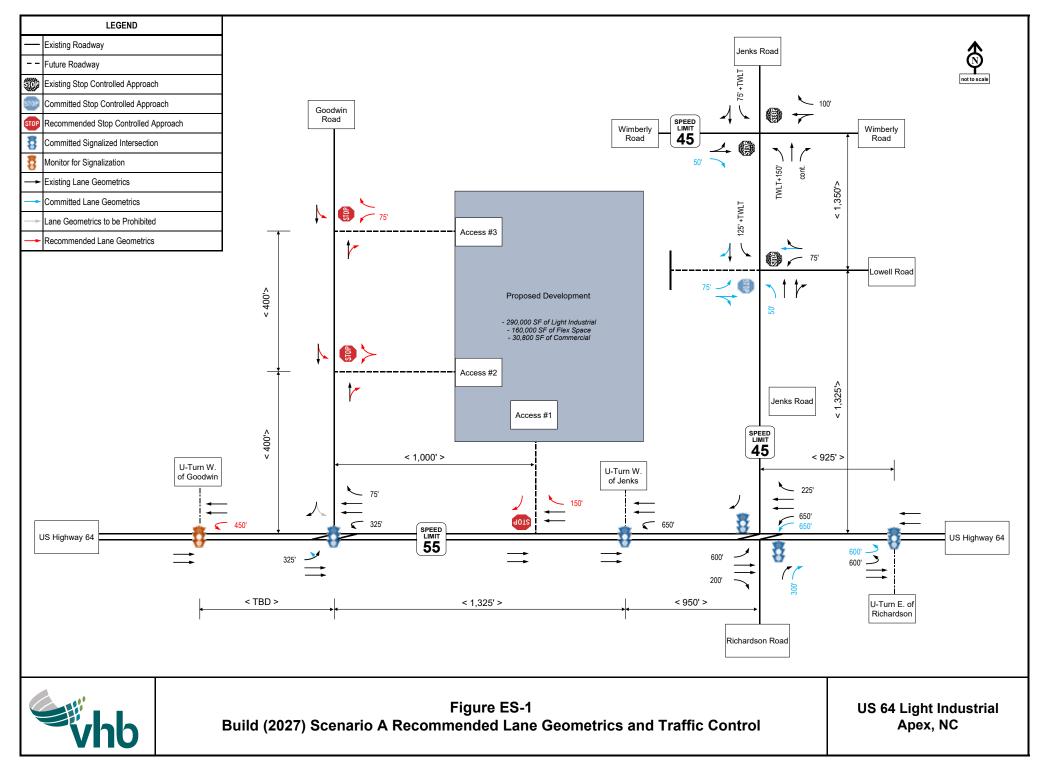
The summary of LOS results is shown in Table ES, and the future lane configurations and traffic control at the study area intersections, with the development in place, are presented in Figure ES-1 and Figure ES-2.

Intersection and Approach	Traffic Control	Existing (2022)		No-Build (2027)		Full Build Scenario A (2027)		Full Build Scenario A (2027) with Improvements		Full Build Scenario B (2027)		Full Build Scenario B (2027) with Improvements	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
US 64 WB at Jenks Road (SR 1601)	Unsignalized (N/A	N/A	B (18.9)	C (26.7)	C (24.4)	C (33.3)	C (24.4)	C (33.3)	B (19.5)	D (39.6)	B (10.6)	B (18.9)
Westbound	Unsignalized/			B-13.8	B-18.9	B-18.6	C-24.1	B-18.6	C-24.1	B-14.8	C-28.3	A-6.0	A-9.8
Northbound (EB Left-over)	Signalized		F-153.4	B-19.3	C-21.3	C-21.3	C-29.7	C-21.3	C-29.7	B-19.5	C-26.7	C-25.0	D-36.7
Southbound		C-15.6	C-24.9	D-43.8	E-67.0	D-52.7	E-79.0	D-52.7	E-79.0	D-44.3	F-94.1	C-28.1	D-50.8
US 64 EB at Richardson Road		N/A	N/A	C (28.9)	C (24.9)	C (33.4)	C (28.3)	C (33.4)	C (28.2)	C (33.2)	C (28.9)	C (33.2)	C (28.9)
Eastbound	Unsignalized/			B-19.0	B-17.7	C-20.5	C-23.7	C-20.5	C-23.6	C-20.3	C-24.7	C-20.3	C-24.7
Northbound	Signalized	F-129.9	E-48.3	E-60.9	D-43.2	E-74.5	D-43.3	E-74.5	D-43.3	E-74.5	D-43.3	E-74.5	D-43.3
Southbound (WB Left-Over)		F-440.1	F-612.5	C-26.7	C-21.7	C-28.5	C-22.7	C-28.5	C-22.7	C-28.5	C-22.7	C-28.5	C-22.7
			1 012.0	B	B	C 20.5	c	B	B	C 20.5	C	C 20.5	C
US 64 EB at U-Turn W of Jenks Road	Unsignalized/	N/A	N/A	(18.2)	(16.2)	(21.4)	(22.9)	(17.2)	(17.2)	(22.1)	(23.7)	(22.1)	(23.7)
Eastbound	Signalized			B-13.8	B-12.6	B-17.1	C-20.0	B-12.4	B-13.6	B-17.9	B-18.6	B-17.9	B-18.6
Southbound	Jighanzea	C-19.5	C-17.3	D-54.1	D-40.0	E-56.8	D-43.8	E-56.8	D-43.8	E-55.1	D-52.5	E-55.1	D-52.5
3000100010		C-19.5	C-17.5								C		
US 64 WB at U-Turn E of Richardson Road	Unsignalized/	N/A	N/A	A (9.9)	C (20.8)	B (14.2)	C (25.7)	B (14.2)	C (25.7)	B (18.8)	(25.7)	B (18.8)	C (25.7)
Westbound	Signalized			A-7.6	B-16.6	B-12.6	B-19.9	B-12.6	B-19.9	B-18.2	B-19.9	B-18.2	B-19.9
Northbound		C-15.6	C-22.0	D-40.1	E-57.6	C-31.9	E-75.1	C-31.9	E-75.1	C-25.6	E-75.1	C-25.6	E-75.1
US 64 at Goodwin Road (SR 1602)		N/A	N/A	A (1.8)	A (2.7)	A (8.5)	B (16.2)	A (8.5)	B (16.3)	A (8.6)	A (9.4)	A (9.7)	B (12.0)
Eastbound	Unsignalized/			A-2.8	A-4.4								
Westbound	Signalized			A-0.7	A-0.8	A-3.7	B-11.6	A-3.7	A-4.2	A-3.2	A-4.0	A-4.4	A-7.0
Northbound	_					D-42.7	C-33.5	D-42.7	D-43.4	D-49.8	D-44.4	D-49.8	D-44.4
Southbound		D-33.2	F-169.3	D-37.0	D-37.7	C-26.5	D-48.8	C-26.5	F-110.7	C-23.6	D-54.5	C-23.6	D-54.5
US 64 EB at U-Turn at Goodwin Road	Unsignalized	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southbound						C-22.1	E-35.5	C-22.1	E-35.5	C-21.3	D-26.7	C-21.3	D-26.7
US 64 EB at U-Turn W of Goodwin Road	Unsignalized/	-	-	-	-	N/A	N/A	A (6.4)	B (13.7)	N/A	N/A	N/A	N/A
Eastbound	Signalized							A-5.9	B-10.3				
Southbound						D-26.7	F-73.0	D-39.8	E-61.1	C-24.7	D-33.3	C-24.7	D-33.3
Jenks Road (SR 1601) at Lowell Road/ Arden at Apex Driveway		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Eastbound	Unsignalized			B-11.4	B-14.4	B-11.9	C-15.1	B-11.9	C-15.1	B-12.5	C-17.2	B-12.5	C-17.2
Westbound	-	A-9.5	B-10.3	B-11.4 B-14.0	C-19.4	C-15.7	C-13.1	C-15.7	C-13.1	C-15.8	C-17.2 C-24.5	C-15.8	C-17.2 C-24.5
Jenks Road (SR 1601) at Wimberly Road (SR 1603)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Unsignalized	D 10.4	D 11.0	C 15 1	D 077	6 45 6	5 42 2	6 45 6	5 42 2	6 45 6	5 42 2	6 45 6	5 42 2
Eastbound	_	B-10.4	B-11.6	C-15.1	D-27.7	C-15.6	E-43.2	C-15.6	E-43.2	C-15.6	E-43.2	C-15.6	E-43.2
Westbound		A-9.4	B-10.1	B-12.8	C-18.7	B-13.3	C-19.6	B-13.3	C-19.6	B-13.3	C-19.6	B-13.3	C-19.6
US 64 WB at Future Access #1	Unsignalized	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Southbound						C-19.1	E-38.6	C-19.1	E-38.6	C-18.7	D-30.7	C-18.7	D-30.7
Goodwin Road (SR 1603) at Future Access #2	Unsignalized	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Westbound						A-9.5	B-10.4	A-9.5	B-10.4	A-9.4	A-9.7	A-9.4	A-9.7
Goodwin Road (SR 1602) at Future Access #3	Unsignailzed	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Westbound	- Shisighanzeu					A-9.0	A-9.6	A-9.0	A-9.6	A-8.9	A-9.1	A-8.9	A-9.1

Table ES

Summary Level of Service Table

X (XX.X) = Overall intersection LOS (average delay), X-XX = Approach LOS and average delay



US 64 Light Industrial TIA



4

Build (2027) Conditions

Greenberg Gibbons Properties has plans to develop the US 64 Light Industrial development in Apex, North Carolina (Figure 1). The development is currently proposed to consist of 290,000 square feet (sf) of light industrial, 160,000-sf of flex space and 30,800-sf of retail. The is estimated year of opening for the site is 2027.

Trip Generation

Trip generation was conducted based on the most appropriate corresponding trip generation codes included in the *ITE Trip Generation Manual*, 11th Edition and the suggested method of calculation in the NCDOT's *"Rate vs. Equation" Spreadsheet*. Based on the proposed land uses at the site, ITE Land Use Code (LUC) 110 (General Light Industrial), LUC 770 (Business Park), and LUC 822 (Strip Retail Plaza (<40k-sf)) were used in the TIA. Internal capture between mixed uses were calculated based on the NCHRP 684 methods with the NCDOT Internal Capture worksheet. Table 5 summarizes the assumed trip generation for the proposed development for typical weekday AM and PM peak hours.

Land Use	Land Use	Unit	ADT	AM Peak Hour			PM Peak Hour		
Code ¹	Land Use	Unit	ADT	Enter	Exit	Total	Enter	Exit	Total
	Total Site Trips (including Interna	al Trips between Mixed Uses	and Pass-B	By Trips fo	or Comme	rcial Uses	2		
110	General Light Industrial	290,000 sf	1,141	177	24	201	12	75	87
770	Business Park (Tech/Flex)	160,000 sf	2,415	181	32	213	57	164	221
822	Strip Retail Plaza (<40k)	30,800 sf	1,529	36	24	60	85	88	173
	Development Total 480,800 sf			394	80	474	154	327	481
	Tr	ip Reduction Due to Interna	l Capture ³						
110	General Light Industrial	290,000 sf	0	0	0	0	0	0	0
770	Business Park (Tech/Flex)	160,000 sf	128	7	9	16	2	5	7
822	Strip Retail Plaza (<40k)	30,800 sf	151	9	8	17	4	2	6
Development Total			279	16	17	33	6	7	13
		Total External Site Tri	ps						
110	General Light Industrial	290,000 sf	1,141	177	24	201	12	75	87
770	Business Park (Tech/Flex)	160,000 sf	2,287	174	23	197	55	159	214
822	Strip Retail Plaza (<40k)	30,800 sf	1,378	27	16	43	81	86	167
Development Total			4,806	378	63	441	148	320	468

Table 5 Trip Generation Rates (Vehicle Trips)

1. Land Use Code and trip generation rates are based on ITE Trip Generation, 11th Edition.

2. Total site trips are determined based on the suggested method in the NCDOT Rate Vs Equation Spreadsheet.

3. Internal capture is calculated based on NCHRP 64 method and NCDOT IC calculation spreadsheet, with distances between OD pairs measured on site plan.

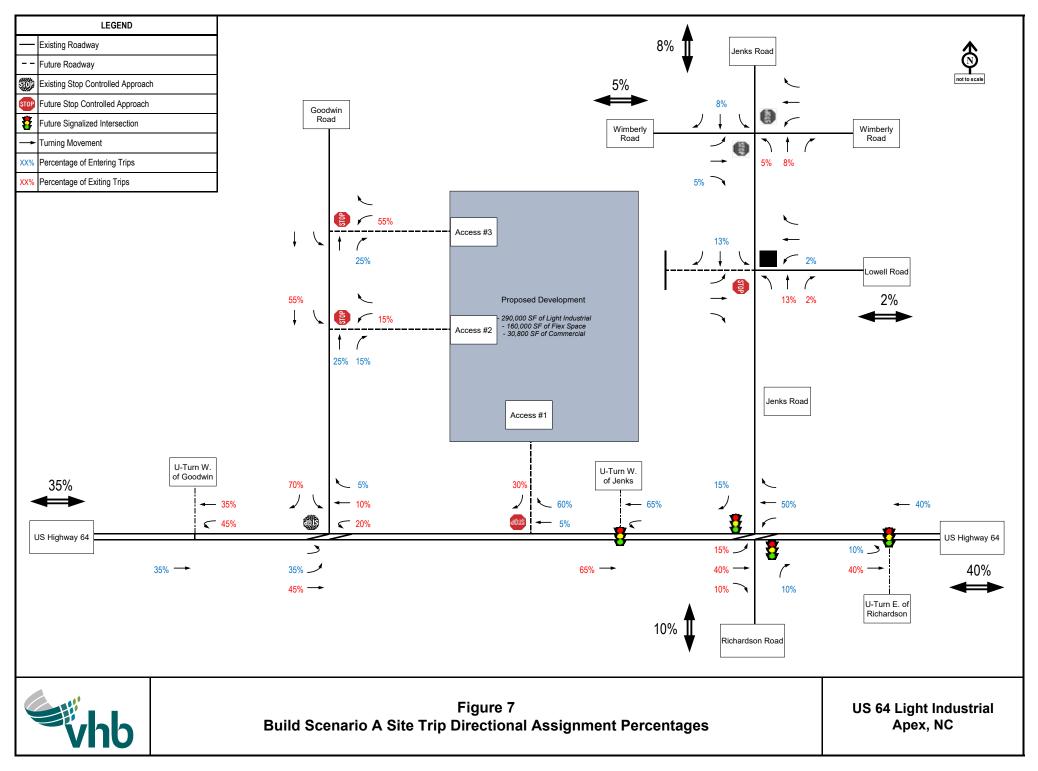
As a result, the proposed development is projected to generate 4,806 daily external weekday site trips, with 441 external trips (378 entering, 63 exiting) occurring in the AM peak hour and 468 external trips (148 entering, 320 exiting) occurring in the PM peak hour.

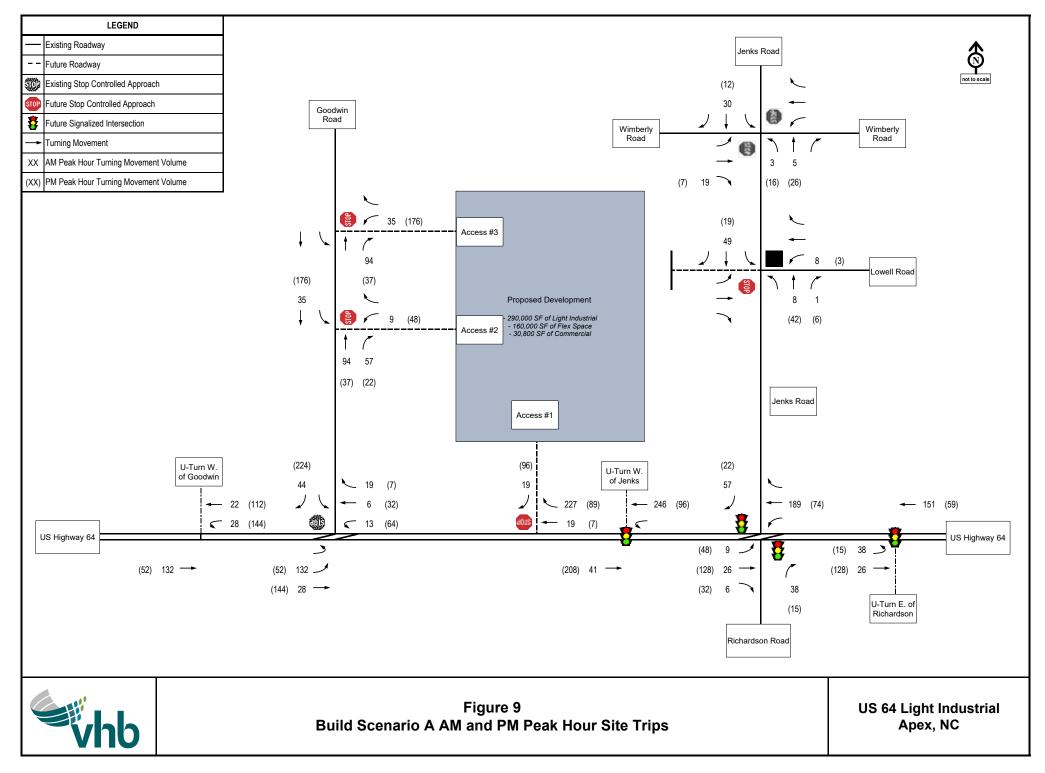
Trip Distribution and Assignment

The proposed development will be able to be accessed via one (1) new driveway along US 64 and three (3) new driveways along Goodwin Road. The generated site trips were distributed in accordance with the existing traffic patterns and land uses in the vicinity of the study area as follows:

- > US 64 from/to the east 40%
- > US 64 from/to the west 35%
- > Richardson Road from/to the south 10%
- > Lowell Road from/to the east 2%
- > Wimberly Road (SR 1603) from/to the west 5%
- > Jenks Road (SR 1602) from/to the north 8%

The site trip assignment percentages for both Scenario A and Scenario B are shown in Figure 7 and Figure 8, respectively. The total peak hour site trips for Scenario A are shown in Figure 9, and the total peak hour site trips for Scenario B are shown within Figure 10.





RAMEY KEMP ASSOCIATES

TOGETHER WE ARE LIMITLESS



Yellow Bridge Residential Traffic Impact Analysis Apex, North Carolina



TRAFFIC IMPACT ANALYSIS

FOR

YELLOW BRIDGE RESIDENTIAL

LOCATED

IN

APEX, NORTH CAROLINA

Prepared For: Lennar Corporation – Raleigh Division 1100 Perimeter Park Drive, Suite 112 Morrisville, NC 27560

Prepared By: Ramey Kemp & Associates, Inc. 5808 Faringdon Place, Suite 100 Raleigh, NC 27609 License #C-0910

FEBRUARY 2022



Prepared By: <u>TF</u> Reviewed By: NB

RKA Project No. 22004

TRAFFIC IMPACT ANALYSIS YELLOW BRIDGE APEX, NORTH CAROLINA

EXECUTIVE SUMMARY

1. Development Overview

A Traffic Impact Analysis (TIA) was conducted for the proposed Yellow Bridge Residential development in accordance with the Town of Apex (Town) Unified Development Ordinance (UDO) and North Carolina Department of Transportation (NCDOT) capacity analysis guidelines. The proposed development is to be located south of US 64 and west of the Abbington subdivision in Apex, North Carolina. The proposed development is expected to consist of 59 single-family homes, 83 townhomes, and 25,000 square feet (sq. ft.) of retail space to be built out in 2026. Site access is proposed via one (1) left-over driveway along US 64 at the existing median break, and one (1) internal connection to Chanticlair Drive.

2. Existing Traffic Conditions

The study area for the TIA was determined through coordination with the Town and NCDOT and consists of the following existing intersections:

• US 64 and Median Break

Existing peak hour traffic volumes were determined based on a combination of previously collected traffic counts at the intersection of US 64 and Jenks Road / Richardson Road, and new turning movement counts conducted at the existing median break. Previously conducted traffic counts at the intersection of US 64 and Jenks Road / Richardson Road were collected in October 2021 during typical weekday AM (7:00 AM – 9:00 AM) and PM (4:00 PM – 6:00 PM) peak periods, while schools were in session for in person learning. These previously conducted counts were utilized to determine through volume traffic at the median break. Turning movement volumes at the median break were determined based on traffic counts conducted at the existing median break, in January 2022, during a typical weekday AM (7:00 AM – 9:00 AM) and PM (4:00 PM – 6:00 PM) peak periods, while schools were in session for in person learning. These previously conducted at the existing median break, in January 2022, during a typical weekday AM (7:00 AM – 9:00 AM) and PM (4:00 PM – 6:00 PM) peak periods, while schools were in session for in person learning. Weekday AM and PM traffic volumes were balanced between study intersections, where appropriate.



3. Site Trip Generation

The proposed development is assumed to consist of a maximum of 59 single-family homes, 83 townhomes, and 25,000 square feet (sq. ft.) of retail space. Average weekday daily, AM peak hour, and PM peak hour trips for the proposed development were estimated using methodology contained within the ITE Trip Generation Manual, 10th Edition. Table E-1 provides a summary of the trip generation potential for the site.

Land Use (ITE Code)	Intensity	Daily Traffic (vpd)	Weel AM F Hour (vp	Peak Trips	Weekday PM Peak Hour Trips (vph)		
			Enter	Exit	Enter	Exit	
Single-Family Homes (210)	59 DU	640	12	35	38	23	
Multi-Family Homes (Low-Rise) (220)	83 DU	588	9	31	31	19	
Shopping Center (820)	25 KSF	944	15	9	45	50	
Total Trips	36	75	114	92			
Internal Capture (2% AM & 1% PM)	0	-2	-11	-12			
Total External Trip	36	73	103	80			
Pass-By Trips: Shopping ((34% PM)	-	-	-14	-14			
Total Primary Trip	36	73	89	66			

Table E-1: Site Trip Generation

*Utilizing methodology contained in the NCHRP Report 684.

4. Future Traffic Conditions

Through coordination with the Town and NCDOT, it was determined that an annual growth rate of 3% would be used to generate 2026 projected weekday AM and PM peak hour traffic volumes. The following adjacent developments were identified to be considered under future conditions:

- Westford Residential (currently 75% built-out)
- Legacy PUD (US 64 Residential)
- Sweetwater Development



The study analyzes traffic conditions during the weekday AM and PM peak hours for the following scenarios:

- 2022 Existing Traffic Conditions •
- 2026 No-Build Traffic Conditions
- 2026 Build Traffic Conditions •

5. **Capacity Analysis Summary**

The analysis considered weekday AM and PM peak hour traffic for 2018 existing, 2022 no-build, and 2022 build conditions. Refer to Section 7 of the TIA for the capacity analysis summary performed at each study intersection.

6. Recommendations

Based on the findings of this study, specific geometric and traffic control improvements have been identified at study intersections. The improvements are summarized below and are illustrated in Figure E-1.

Recommended Improvements by Developer

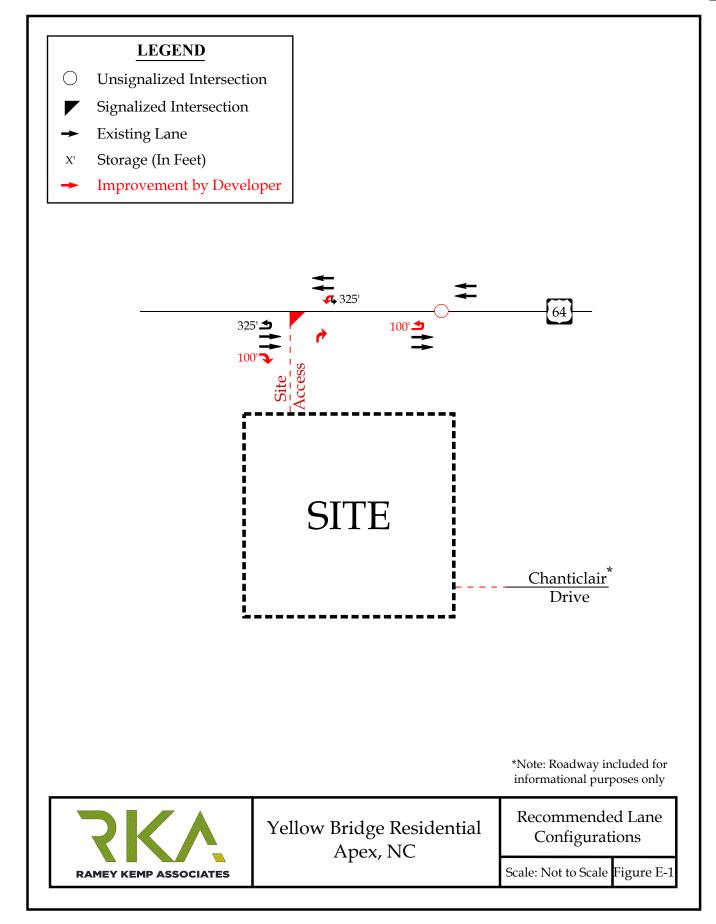
US 64 and Median Break / Site Access

- Construct the northbound approach (Site Access) with one ingress and one egress lane striped as an exclusive right-turn lane.
- Provide stop-control for the northbound approach (Site Access). The proposed intersection will be configured as a left-over.
- Construct an exclusive eastbound (US 64) right-turn lane with a minimum of 100 feet of storage and appropriate decel and taper.
- Restripe the existing westbound (US 64) u-turn lane to provide for a westbound • left-turn movement.

US 64 and Eastern U-Turn Location

Construct an exclusive eastbound (US 64) u-turn lane with a minimum of 100 feet • of storage and appropriate decel and taper to be located east of the existing median break and proposed site driveway location.





4. SITE TRIP GENERATION AND DISTRIBUTION

4.1. Trip Generation

The proposed development is assumed to consist of 59 single-family homes, 86 townhomes, and 25,000 sq. ft. of retail space. Average weekday daily, AM peak hour, and PM peak hour trips for the proposed development were estimated using methodology contained within the ITE *Trip Generation Manual*, 10th Edition. Table 3 provides a summary of the trip generation potential for the site. It should be noted that several trip generation scenarios were considered and that the most conservative scenario was considered in the analysis. Refer to Appendix I for a summary of the proposed densities considered and a comparison of the expected trip generations.

Land Use (ITE Code)	Intensity	Daily Traffic (vpd)	Weel AM P Hour (vp	Peak Trips	Weekday PM Peak Hour Trips (vph)				
			Enter	Exit	Enter	Exit			
Single-Family Homes (210)	59 DU	640	12	35	38	23			
Multi-Family Homes (Low-Rise) (220)	83 DU	588	9	31	31	19			
Shopping Center (820)	25 KSF	944	15	9	45	50			
Total Trips	36	75	114	92					
Internal Capture (2% AM & 1% PM)	0	-2	-11	-12					
Total External Trip	36	73	103	80					
Pass-By Trips: Shopping (34% PM)	-	-	-14	-14					
Total Primary Trip	36	73	89	66					

Table 3: Trip Generation Summary

*Utilizing methodology contained in the NCHRP Report 684.

It is estimated that the proposed development will generate approximately 2,172 total site trips on the roadway network during a typical 24-hour weekday period. Of the daily traffic volume, it is anticipated that 111 trips (36 entering and 75 exiting) will occur during the



weekday AM peak hour and 206 trips (114 entering and 92 exiting) will occur during the weekday PM peak hour.

Internal capture of trips between the residential and retail uses was considered in this study. Internal capture is the consideration for trips that will be made within the site between different land uses, so the vehicle technically never leaves the internal site but can still be considered as a trip to that specific land use. Internal capture typically only considers trips between residential, office, and retail/restaurant land uses. Based on NCHRP Report 684 methodology, a weekday AM peak hour internal capture of 2% and a weekday PM peak hour internal capture rate of 11% was applied to the total trips. The internal capture reductions are expected to account for approximately 2 trips (0 entering and 2 exiting) during the weekday AM peak hour and 23 trips (11 entering and 12 exiting) during the weekday PM peak hour.

Pass-by trips were also taken into consideration in this study. Pass-by trips are made by the traffic already using the adjacent roadway, entering the site as an intermediate stop on their way to another destination. Pass-by percentages are applied to site trips after adjustments for internal capture. Pass-by trips are expected to account for approximately 28 trips (14 entering and 14 exiting) during the weekday PM peak hour. It should be noted that the pass-by trips were balanced, as it is likely that these trips would enter and exit in the same hour.

The total primary site trips are the calculated site trips after the reduction for internal capture and pass-by trips. Primary site trips are expected to generate approximately 109 trips (33 entering and 73 exiting) during the weekday AM peak hour and 155 trips (89 entering and 66 exiting) during the weekday PM peak hour.

4.2. Site Trip Distribution and Assignment

Trip distribution percentages used in assigning site traffic for this development were estimated based on a combination of existing traffic patterns, population centers adjacent to the study area, and engineering judgment.



It is estimated that the residential site trips will be regionally distributed as follows:

- 75% to/from the east via US 64
- 20% to/from the west via US 64
- 5% to/from the east via Chanticlair Drive

It is estimated that the commercial site trips will be regionally distributed as follows:

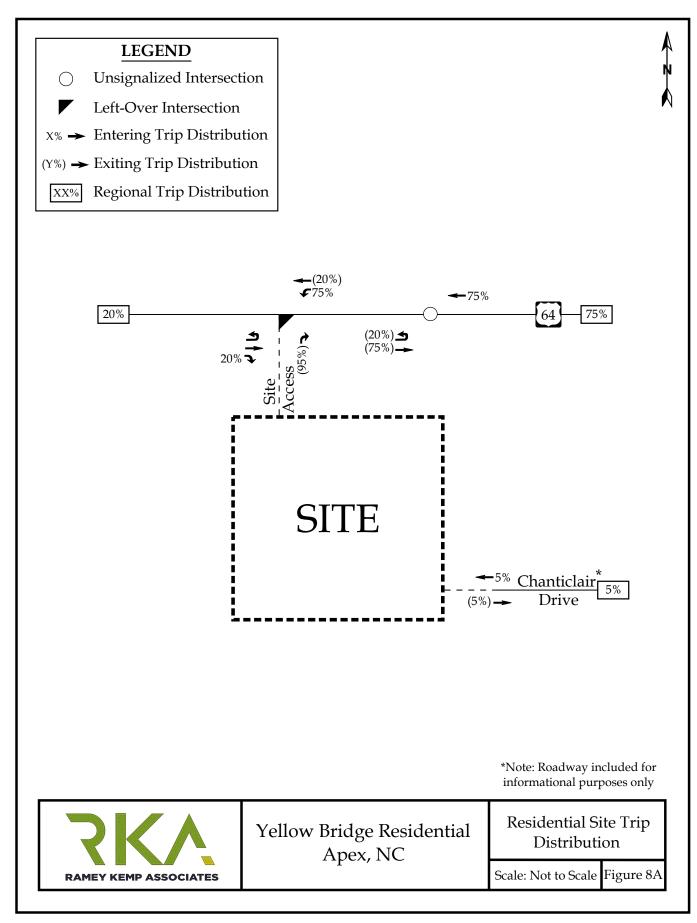
- 65% to/from the east via US 64
- 30% to/from the west via US 64
- 5% to/from the east via Chanticlair Drive

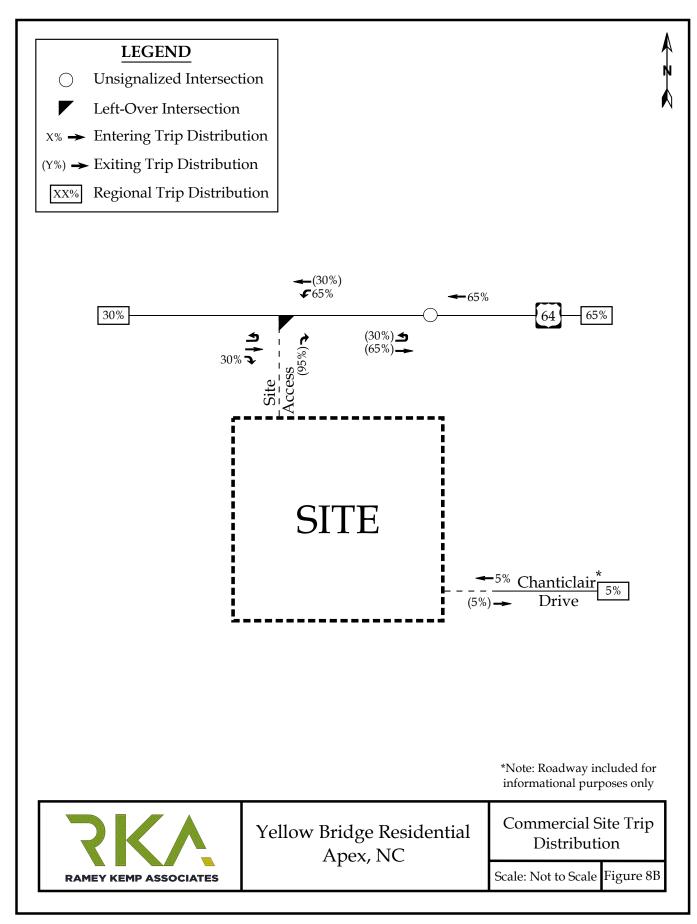
The residential site trip distribution is shown in Figure 8A, the commercial site trip distribution is shown in Figure 8B. Refer to Figure 9A and Figure 9B for the residential and commercial site trip assignment, respectively.

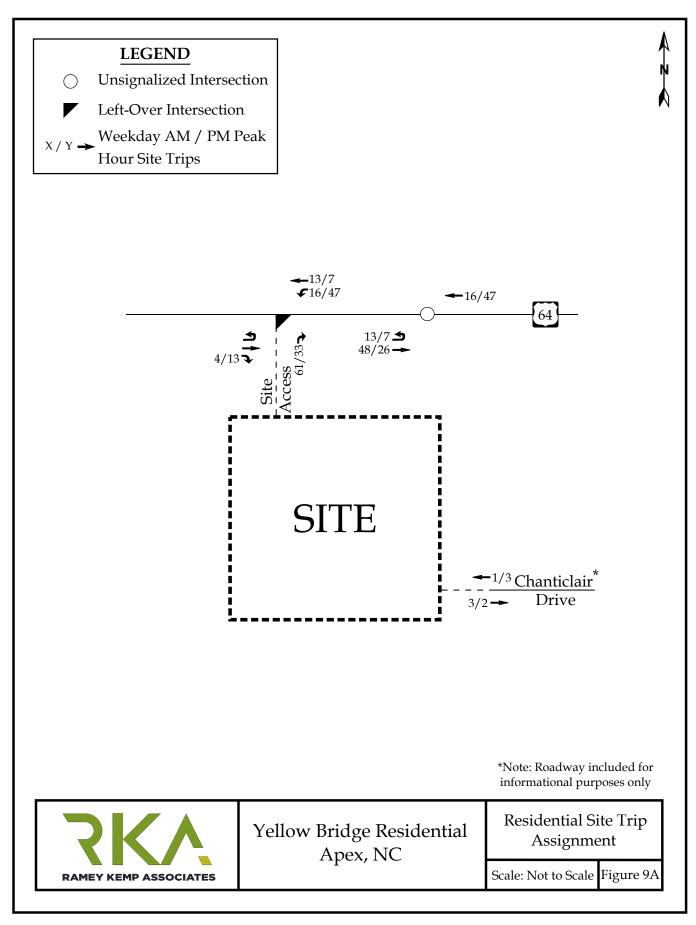
The pass-by site trips were distributed based on existing traffic patterns with consideration given to the proposed driveway access and site layout. Refer to Figure 10 for the pass-by site trip distribution. Pass-by site trips are shown in Figure 11.

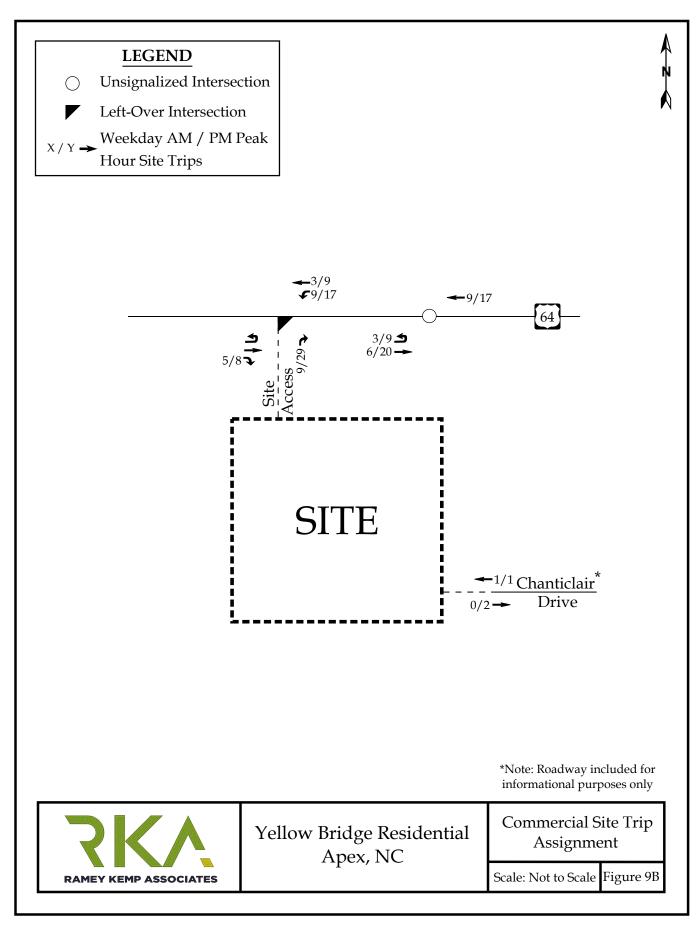
The total site trips were determined by adding the primary site trips and the pass-by site trips. Refer to Figure 12 for the total peak hour site trips at the study intersections.

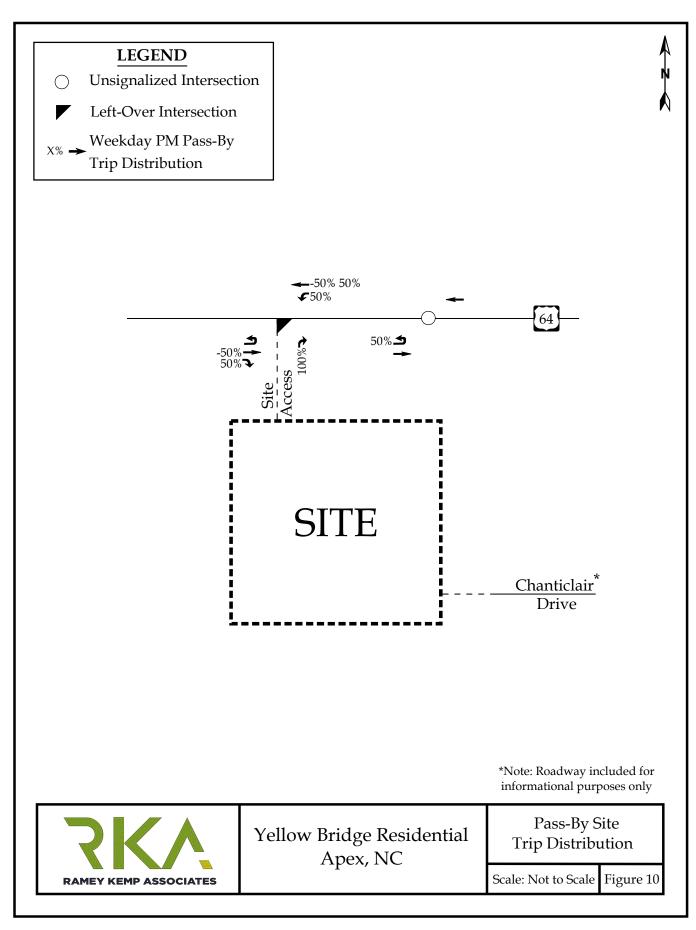


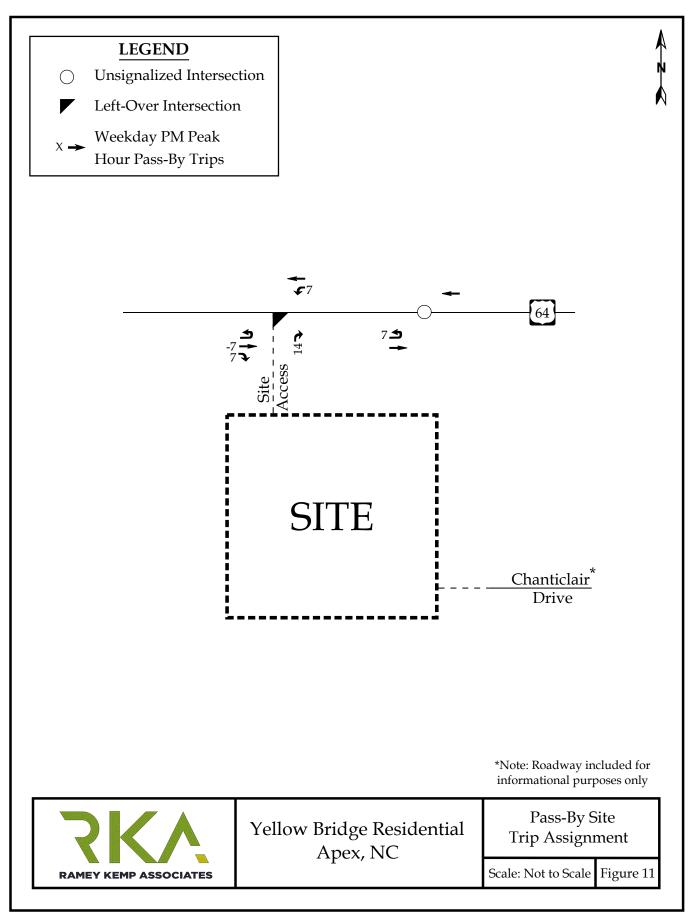


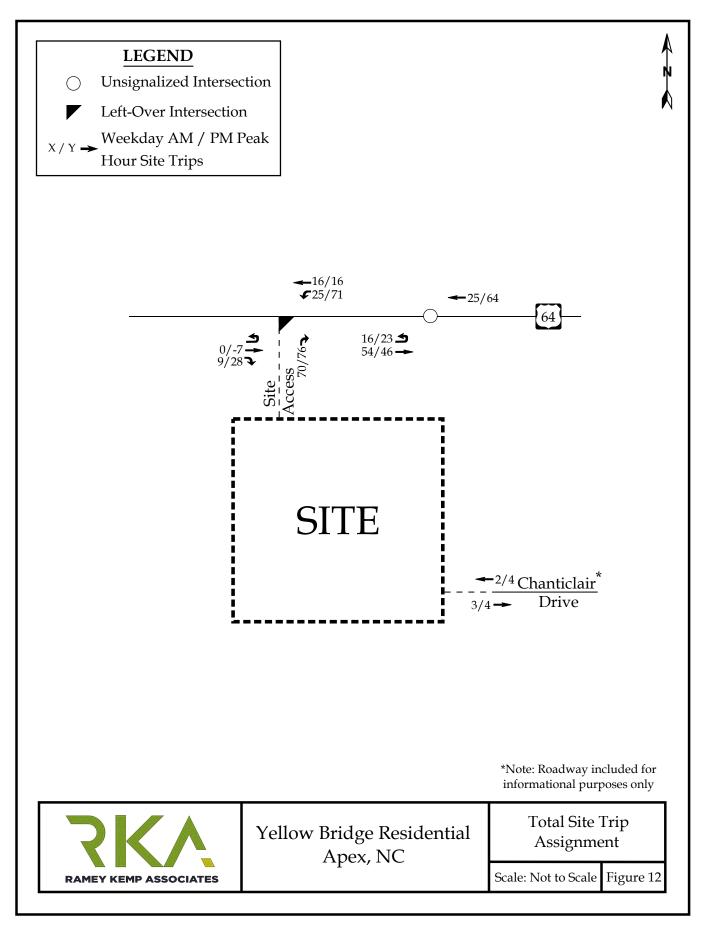












RAMEY KEMP ASSOCIATES

TOGETHER WE ARE LIMITLESS



Arden at Apex Traffic Impact Analysis Apex, North Carolina



rameykemp.com

TRAFFIC IMPACT ANALYSIS

FOR

ARDEN AT APEX

LOCATED

IN

APEX, NORTH CAROLINA

Prepared For: BUVERMO INVESTMENTS 7315 Wisconsin Avenue, Suite 925W Bethesda, Maryland 20814

Prepared By: Ramey Kemp & Associates, Inc. 5808 Faringdon Place, Suite 100 Raleigh, NC 27609 License #C-0910

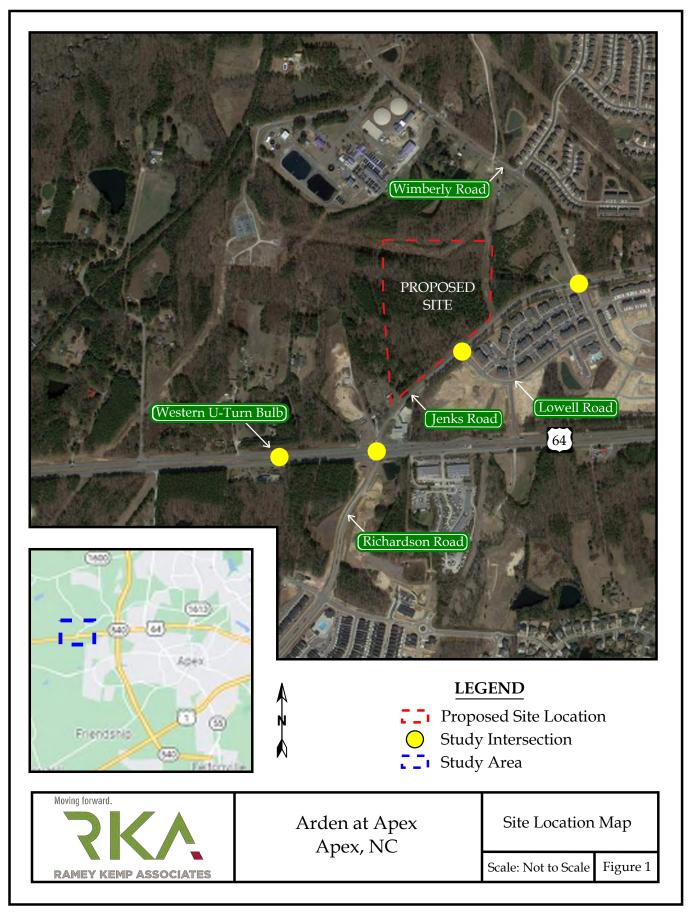
MARCH 2022



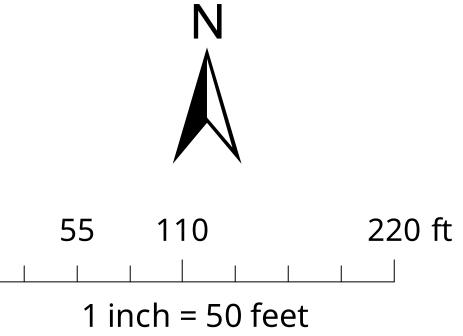
Prepared By: <u>MR</u>

Reviewed By: CC

RKA Project No. 21605







<u>Disclaimer</u>

0

iMaps makes every effort to produce and publish
the most current and accurate information possible.
However, the maps are produced for information purposes,
and are **NOT** surveys. No warranties, expressed or implied,
are provided for the data therein, its use, or its interpretation.

Moving forward.

4. SITE TRIP GENERATION AND DISTRIBUTION

4.1. Trip Generation

The proposed development is assumed to consist of 163 adult senior homes (multifamily) and a 10,000 sq. ft. shopping center. Average weekday daily, AM peak hour, and PM peak hour trips for the proposed development were estimated using methodology contained within the ITE *Trip Generation Manual*, 11th Edition. It should be noted that the Strip Retail Plaza land use was used to generate site trips as the proposed development is expected to have less than 40,000 sq. ft. of retail. Table 3 provides a summary of the trip generation potential for the site.

Land Use (ITE Code)	Intensity	Daily Traffic (vpd)	Weel AM P Hour (vp	Peak Trips	Wee PM F Hour (vp	Peak Trips
			Enter	Exit	Enter	Exit
Adult Senior Housing – Multifamily (252)	163 units	496	11	21	23	18
Strip Retail Plaza (822)	10,000 sq. ft.	652	17	12	39	39
Total Trips		1,148	18	33	62	57
Pass-By Trips: Strip Retail (34% PM)	Plaza*				-13	-13
Total Primary Trip	S		18	33	49	44

Table 3: Trip Generation Summary

*Pass-by percentages from LUC 820 were used for the Strip Retail Plaza land use.

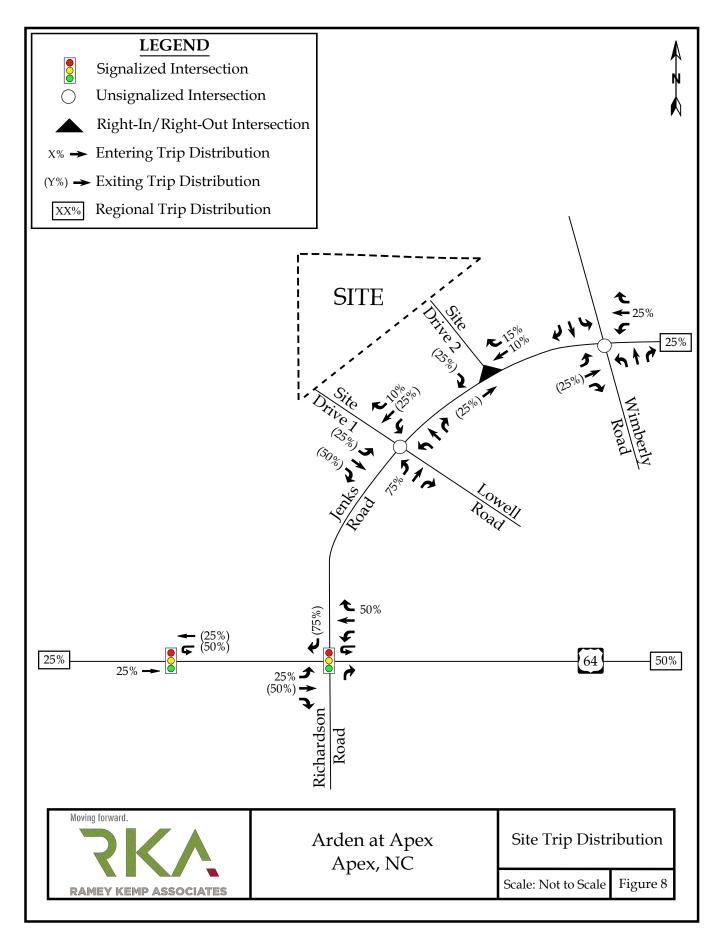
It is estimated that the proposed development will generate approximately 1,148 total site trips on the roadway network during a typical 24-hour weekday period. Of the daily traffic volume, it is anticipated that 51 trips (18 entering and 33 exiting) will occur during the weekday AM peak hour and 119 trips (62 entering and 57 exiting) will occur during the weekday PM peak hour.

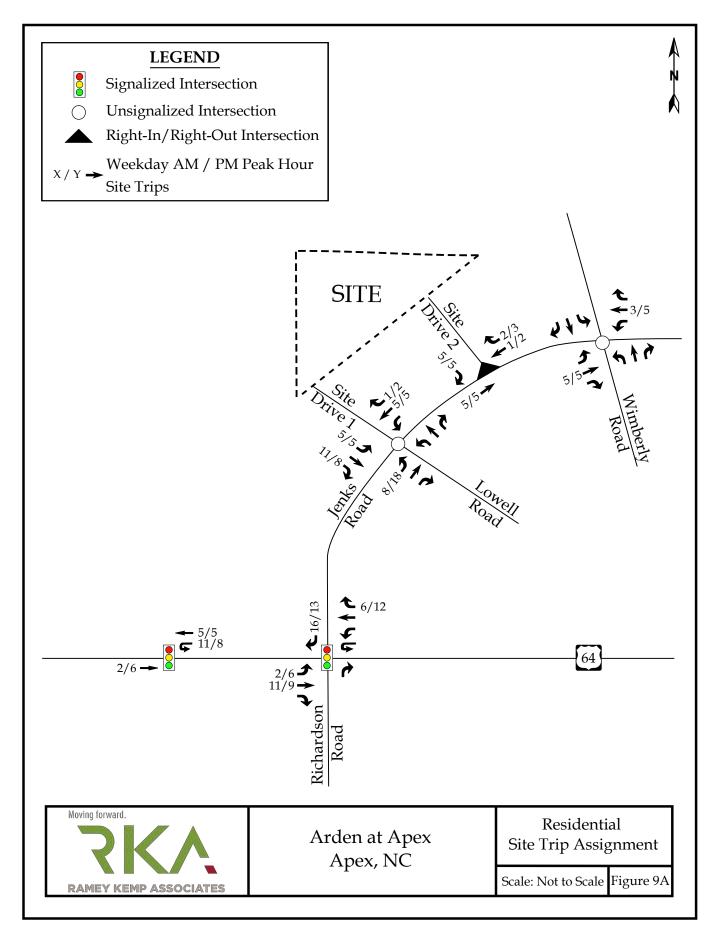
Pass-by trips were also taken into consideration in this study. Pass-by trips are made by the traffic already using the adjacent roadway, entering the site as an intermediate stop on their way to another destination. Pass-by trips are expected to account for approximately 26 trips

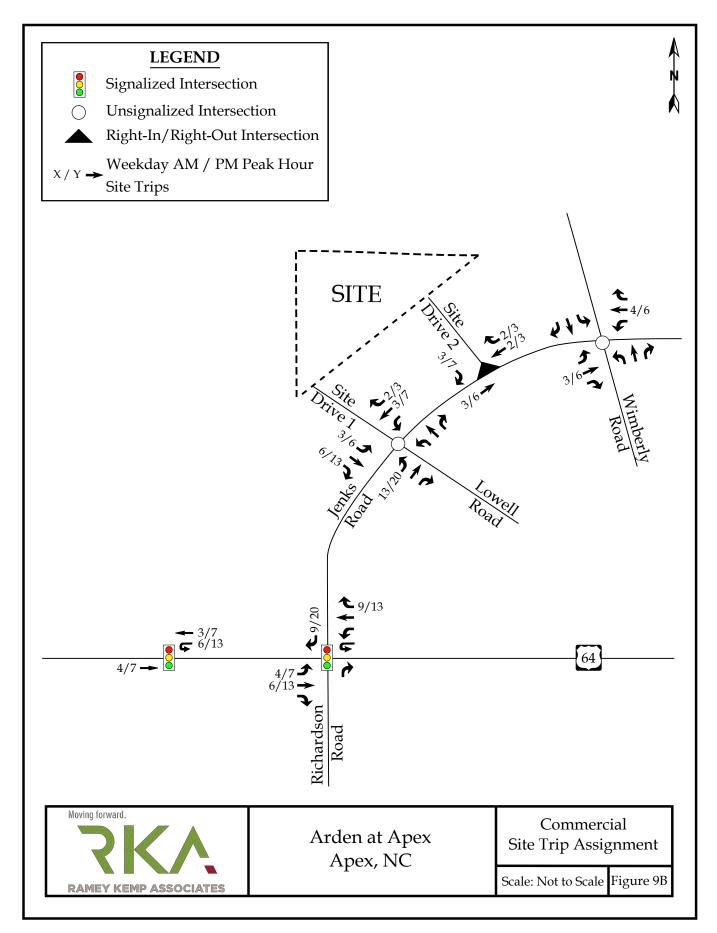


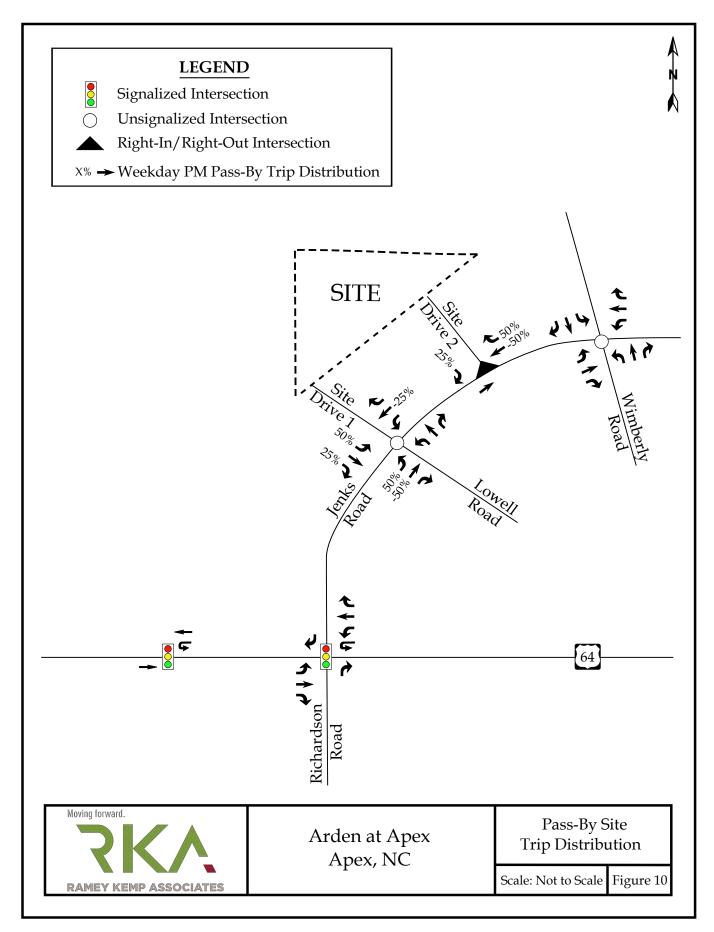
Transportation Consulting that moves us forward.

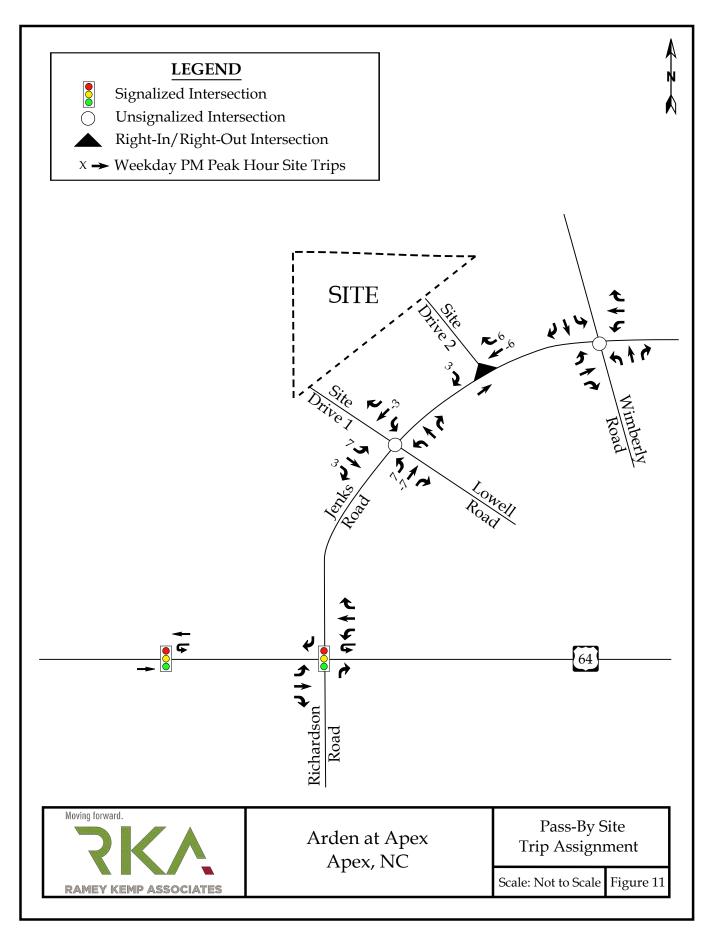
rameykemp.com

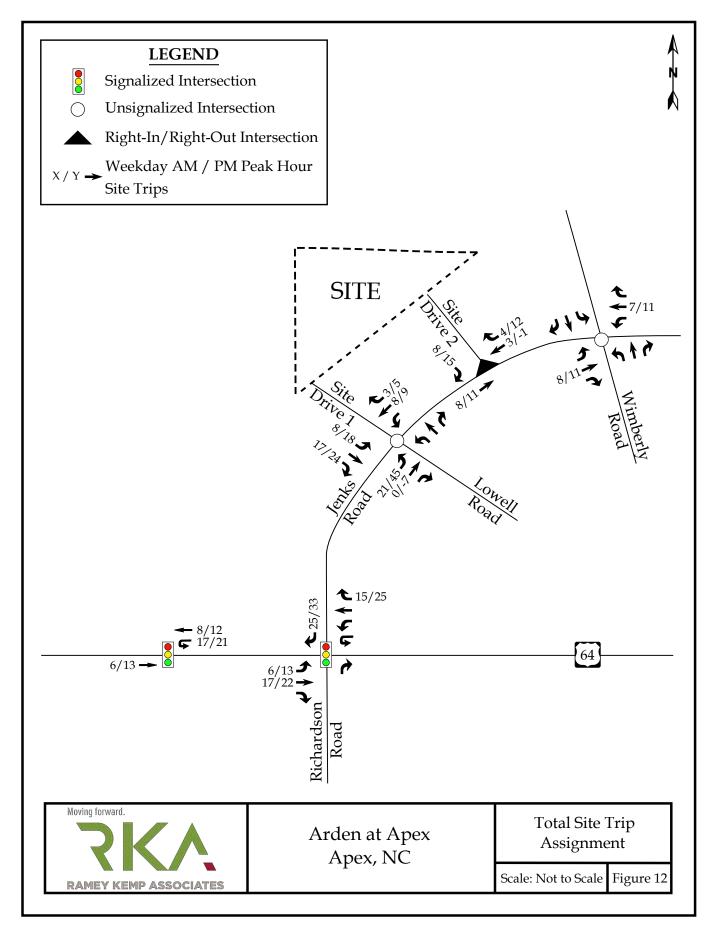












Appendix D: Trip Generation

	Je	nks @ Wi	mberly Re	sidentia							
		Table 1 -	Trip Gene	ration							
Land Use	Into	nsity		Daily		A	/ Peak Ho	our	P	M Peak Ho	our
	line	lisity	Total	In	Out	Total	In	Out	Total	In	Out
221 Multifamily Housing (Mid-Rise, Not Close to Rail)	300	d.u.	1,386	693	693	120	28	92	117	71	46
Total Net New External Trips			1,386	693	693	120	28	92	117	71	46

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\[Jenks@WimberlyResidential-TIAData.xls]Trip Gen

3/28/24

Appendix E: Intersection Spreadsheets

	<u></u>											AM In	AM Out	PM In	PM Out	٦
Project: Jenks @ V Location: Apex, NC	Vimberly Reside	ential									New Trips: -By Trips:		92 0	71	46	-
Ct. Date 4/25/2024					-						-, r ».	Ū	0	Ŭ	v	1
N/S Street: Jenks Roa	d/Richardson R	oad							А	nnual Gro	owth Rate:	2.0%	Exist	ting Year:	2024	1
E/W Street: US 64					-					Grow	th Factor:			lout Year		
					1		I PEAK HO AM PHF =					0.001200	1		2027	1
			US 64 stbound				S 64 t bound			North	- 1bound				s Road h bound	
Description	U-Tu	ırn Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
2024 Traffic Count Count Balancing	0	124	0	0	0	0	1327	82	0	0	0	0	0	0	0	141
2024 Existing Traffic	0	124	0	0	0	0	1327	82	0	0	0	0	0	0	0	141
Growth Factor 2.0% per year	0.06	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
2027 Background Grow	th 0	8	0	0	0	0	81	5	0	0	0	0	0	0	0	9
Committed Projects																
Sweetwater Commercial	0	0	0	0	0	0	29	29	0	0	0	0	0	0	0	53
Parks at Wimberly (50% Rema		2	0	0	0	0	0	4	0	0	0	0	0	0	0	20
Retreat at Preserve at White O		15	0	0	0	0	0	29	0	0	0	0	0	0	0	43
Westford - Commercial	0	21	0	0	0	0	0	17	0	0	0	0	0	0	0	82
Apex Light Industrial	0	9	0	0	0	0	189	0	0	0	0	0	0	0	0	57
Yellowbridge PUD	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
Arden at Summit Pines	0	6	0	0	0	0	0	15	0	0	0	0	0	0	0	25
Fotal Committed Traffic	0	53	0	0	0	0	234	94	0	0	0	0	0	0	0	280
2027 Background Traffi	ic 0	185	0	0	0	0	1642	181	0	0	0	0	0	0	0	430
Project Traffic																
Percent Assignment Inbound	0%		0%	0%	0%	0%	0%	35%	0%	0%	0%	0%	0%	0%	0%	0%
nbound Project Traffic	0	6	0	0	0	0	0	10	0	0	0	0	0	0	0	0
Percent Assignment Outbound			35%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	55%
Outbound Project Traffic	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	51
Fotal Project Traffic	0	6	32	0	0	0	0	10	0	0	0	0	0	0	0	51
2027 Buildout Total	0	191	32	0	0	0	1642	191	0	0	0	0	0	0	0	481
Percent Impact (Approach)		17.0%				0.	.5%				-		1	10).6%	

overall Percent Impact (3.9%)

PM PEAK HOUR PM PHF =0.97

							PM PHF =	0.97								
			S 64 bound				S 64 t bound			Nort	- hbound				s Road h bound	
Description	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
2024 Traffic Count	0	100	0	0	0	0	1614	71	0	0	0	0	0	0	0	157
Count Balancing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2024 Existing Traffic	0	100	0	0	0	0	1614	71	0	0	0	0	0	0	0	157
Growth Factor 2.0% per year	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
2027 Background Growth	0	6	0	0	0	0	99	4	0	0	0	0	0	0	0	10
Committed Projects																
Sweetwater Commercial	0	0	0	0	0	0	64	64	0	0	0	0	0	0	0	51
Parks at Wimberly (50% Remaining)	0	7	0	0	0	0	0	14	0	0	0	0	0	0	0	13
Retreat at Preserve at White Oak	0	15	0	0	0	0	0	29	0	0	0	0	0	0	0	49
Westford - Commercial	0	44	0	0	0	0	-13	28	0	0	0	0	0	0	0	86
Apex Light Industrial	0	48	0	0	0	0	74	0	0	0	0	0	0	0	0	22
Yellowbridge PUD	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
Arden at Summit Pines	0	13	0	0	0	0	0	25	0	0	0	0	0	0	0	33
Total Committed Traffic	0	127	0	0	0	0	141	160	0	0	0	0	0	0	0	254
2027 Background Traffic	0	233	0	0	0	0	1854	235	0	0	0	0	0	0	0	421
Project Traffic																
Percent Assignment Inbound	0%	20%	0%	0%	0%	0%	0%	35%	0%	0%	0%	0%	0%	0%	0%	0%
Inbound Project Traffic	0	14	0	0	0	0	0	25	0	0	0	0	0	0	0	0
Percent Assignment Outbound	0%	0%	35%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	55%
Outbound Project Traffic	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	25
Total Project Traffic	0	14	16	0	0	0	0	25	0	0	0	0	0	0	0	25
2027 Buildout Total	0	247	16	0	0	0	1854	260	0	0	0	0	0	0	0	446
Percent Impact (Approach)		11	.4%	-		1.	.2%	-			-			5.	.6%	

Overall Percent Impact 2.8%

Location: Apex, NO Ct. Date 4/25/202			<u> </u>									lew Trips: By Trips:	28 0	92 0	71 0	46 0	
Ct. Date 4/25/202 N/S Street: U-Turn	4	s Road									Pass-	-by т rips:	0	0	0	0	ļ
N/S Street: U-Turn		s Road															
	west of Jenk	s Koad									10	wth Rate:	0.004		• • •	2024	1
E/W Street: US 64						4				A			1.010		ing Year:		1
											Grow	th Factor:	0.061208	Build	out Year:	2027	I
								PEAK HO AM PHF =									
				S 64				5 64				-		ι		of Jenks Road	1
				bound				bound				bound				nbound	
Description		U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
2024 Traffic Count		0	0	1589	0	73	0	1412	0	0	0	0	0	0	0	0	0
Count Balancing		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2024 Existing Traffic	F	0	0	1589	0	73	0	1412	0	0	0	0	0	0	0	0	0
2		0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
Growth Factor 2.0% per yea 2027 Background Gro		0.061	0.061	97	0.061	4	0.061	86	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
027 Dackground Gro	own	0	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	-	0	00	0	0	0	0	0	°,	0	0	0
Committed Projects																	
Sweetwater Commercial		0	0	53	0	53	0	29	0	0	0	0	0	0	0	0	0
Parks at Wimberly (50% Re		0	0	2	0	13	0	7	0	0	0	0	0	0	0	0	0
Retreat at Preserve at White	Oak	0	0	15	0	29	0	14	0	0	0	0	0	0	0	0	0
Westford - Commercial		0	0	21	0	50	0	32	0	0	0	0	0	0	0	0	0
Apex Light Industrial		0	0	41	0	0	0	246	0	0	0	0	0	0	0	0	0
Yellowbridge PUD		0	0	9	0	0	0	16	0	0	0	0	0	0	0	0	0
Arden at Summit Pines		0	0	6	0	17	0	8	0	0	0	0	0	0	0	0	0
Fotal Committed Traffic		0	0	147	0	162	0	352	0	0	0	0	0	0	0	0	0
2027 Background Tra	affic	0	0	1833	0	239	0	1850	0	0	0	0	0	0	0	0	0
Project Traffic																	
Percent Assignment Inbound	1	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
nbound Project Traffic	Γ	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Assignment Outbour	nd	0%	0%	0%	0%	35%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dutbound Project Traffic		0	0	0	0	32	0	18	0	0	0	0	0	0	0	0	0
Fotal Project Traffic		0	0	6	0	32	0	18	0	0	0	0	0	0	0	0	0
2027 Buildout Total	F	0	0	1839	0	271	0	1868	0	0	0	0	0	0	0	0	0
Percent Impact (Approach)	F		0.3	3%			2.	3%								-	

nt Impact (Approach) Overall Percent Impact 1.4%

PM PEAK HOUR PM PHF =0.96

							PM PHF =	0.96								
			S 64 bound				S 64 t bound			North	- hbound				t of Jenks Road h bound	1
Description	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
2024 Traffic Count	0	0	1438	0	73	0	1707	0	0	0	0	0	0	0	0	0
Count Balancing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2024 Existing Traffic	0	0	1438	0	73	0	1707	0	0	0	0	0	0	0	0	0
Growth Factor 2.0% per year	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
2027 Background Growth	0	0	88	0	4	0	104	0	0	0	0	0	0	0	0	0
Committed Projects																
Sweetwater Commercial	0	0	51	0	51	0	64	0	0	0	0	0	0	0	0	0
Parks at Wimberly (50% Remaining)	0	0	7	0	9	0	4	0	0	0	0	0	0	0	0	0
Retreat at Preserve at White Oak	0	0	15	0	33	0	16	0	0	0	0	0	0	0	0	0
Westford - Commercial	0	0	35	0	49	0	27	0	0	0	0	0	0	0	0	0
Apex Light Industrial	0	0	208	0	0	0	96	0	0	0	0	0	0	0	0	0
Yellowbridge PUD	0	0	21	0	0	0	16	0	0	0	0	0	0	0	0	0
Arden at Summit Pines	0	0	13	0	21	0	12	0	0	0	0	0	0	0	0	0
Total Committed Traffic	0	0	350	0	163	0	235	0	0	0	0	0	0	0	0	0
2027 Background Traffic	0	0	1876	0	240	0	2046	0	0	0	0	0	0	0	0	0
Project Traffic																
Percent Assignment Inbound	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Inbound Project Traffic	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Assignment Outbound	0%	0%	0%	0%	35%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Outbound Project Traffic	0	0	0	0	16	0	9	0	0	0	0	0	0	0	0	0
Total Project Traffic	0	0	14	0	16	0	9	0	0	0	0	0	0	0	0	0
2027 Buildout Total	0	0	1890	0	256	0	2055	0	0	0	0	0	0	0	0	0
Percent Impact (Approach)		0.	.7%			1.	.1%				-				-	

Overall Percent Impact 0.9%

						In	tersecti	ion Anal	ysis Sh	<u>eet</u>							
													AM In	AM Out	PM In	PM Out	-
	@ Wimberly I	Residentia	1									lew Trips:	28	92	71	46	
Location: Apex, I	NC										Pass	By Trips:	0	0	0	0	1
Ct. Date 4/25/20)24																
N/S Street: Wimbe	erly Road									А	nnual Gro	wth Rate:	2.0%	Exist	ting Year:	2024	1
E/W Street: Jenks I	Road										Grow	th Factor:	0.061208	Build	out Year:	2027	
						4	AM	I PEAK HC	OUR					4			1
								AM PHF =	0.84								
				Road				s Road				rly Road				rly Road	
Description				bound				bound				bound				ibound	
Description		U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
2024 Traffic Count		0	74	135	7	0	14	81	31	0	9	8	42	0	45	3	35
Count Balancing		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2024 Existing Traffi	ic	0	74	135	7	0	14	81	31	0	9	8	42	0	45	3	35
Growth Factor 2.0% per y	ear	0.000	0.061	0.061	0.000	0.000	0.000	0.061	0.061	0.000	0.000	0.000	0.000	0.000	0.061	0.000	0.061
2027 Background G	rowth	0	5	8	0	0	0	5	2	0	0	0	0	0	3	0	2
Committed Projects																	
weetwater Commercial		0	14	14	0	0	0	26	0	0	0	0	0	0	0	0	26
Parks at Wimberly (50% I	Remaining)	0	6	0	0	0	0	0	2	0	0	0	0	0	6	0	20
Retreat at Preserve at Whi	ite Oak	0	41	3	0	0	0	31	5	0	0	0	0	0	19	0	12
Vestford - Commercial		0	6	19	0	0	0	13	0	0	0	0	0	0	0	0	4
Apex Light Industrial		0	3	5	0	0	0	30	0	0	0	0	0	0	0	0	19
Yellowbridge PUD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arden at Summit Pines		0	0	8	0	0	0	7	0	0	0	0	0	0	0	0	0
Total Committed Traffic	c	0	70	49	0	0	0	107	7	0	0	0	0	0	25	0	81
2027 Background T	raffic	0	149	192	7	0	14	193	40	0	9	8	42	0	73	3	118
Project Traffic																	
Percent Assignment Inbou	nd	0%	55%	0%	0%	0%	0%	0%	30%	0%	0%	0%	0%	0%	0%	0%	0%
nbound Project Traffic		0	15	0	0	0	0	0	8	0	0	0	0	0	0	0	0
ercent Assignment Outbo	ound	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%	55%
Outbound Project Traffic		0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	51
Fotal Project Traffic		0	15	0	0	0	0	0	8	0	0	0	0	0	28	0	51
2027 Buildout Total	I	0	164	192	7	0	14	193	48	0	9	8	42	0	101	3	169
Percent Impact (Approach)	4.1%					3.	1%			0.0	0%			28	.9%	
Overall P	ercent Impact	10.7%															

Overall Percent Impact

PM PEAK HOUR PM PHF =0.91

							PM PHF =	0.91								
		East	s Road bound			West	s Road t bound			Nort	erly Road h bound			Sout	erly Road hbound	
Description	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
2024 Traffic Count	0	46	91	7	0	36	103	33	0	7	4	35	0	79	13	65
Count Balancing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2024 Existing Traffic	0	46	91	7	0	36	103	33	0	7	4	35	0	79	13	65
Growth Factor 2.0% per year	0.000	0.061	0.061	0.000	0.000	0.000	0.061	0.061	0.000	0.000	0.000	0.000	0.000	0.061	0.000	0.061
2027 Background Growth	0	3	6	0	0	0	6	2	0	0	0	0	0	5	0	4
Committed Projects																
Sweetwater Commercial	0	32	32	0	0	0	25	0	0	0	0	0	0	0	0	25
Parks at Wimberly (50% Remaining)	0	21	0	0	0	0	0	7	0	0	0	0	0	4	0	13
Retreat at Preserve at White Oak	0	36	8	0	0	0	33	4	0	0	0	0	0	26	0	16
Westford - Commercial	0	5	16	0	0	0	21	0	0	0	0	0	0	0	0	7
Apex Light Industrial	0	16	26	0	0	0	12	0	0	0	0	0	0	0	0	7
Yellowbridge PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arden at Summit Pines	0	0	11	0	0	0	11	0	0	0	0	0	0	0	0	0
Total Committed Traffic	0	110	93	0	0	0	102	11	0	0	0	0	0	30	0	68
2027 Background Traffic	0	159	190	7	0	36	211	46	0	7	4	35	0	114	13	137
Project Traffic																
Percent Assignment Inbound	0%	55%	0%	0%	0%	0%	0%	30%	0%	0%	0%	0%	0%	0%	0%	0%
Inbound Project Traffic	0	39	0	0	0	0	0	21	0	0	0	0	0	0	0	0
Percent Assignment Outbound	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%	55%
Outbound Project Traffic	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	25
Total Project Traffic	0	39	0	0	0	0	0	21	0	0	0	0	0	14	0	25
2027 Buildout Total	0	198	190	7	0	36	211	67	0	7	4	35	0	128	13	162
Percent Impact (Approach)			9%	1			.7%	51	0	, 0	.0%		Ŭ		2.9%	102

Overall Percent Impact 9.4%

					111	lier secu	ion Ana	y 515 OH								
					_							AM In	AM Out	PM In	PM Out	
Project: Jenks @ Wimberly	Residentia	1								Net N	New Trips:	28	92	71	46	
Location: Apex, NC										Pass	-By Trips:	0	0	0	0	
Ct. Date 4/25/2024																
N/S Street: White Oak Pond Ro	ad/North 9	Site Drwy							А	nnual Gro	owth Rate:	2.0%	Exis	ting Year:	2024	1
E/W Street: Wimberly Road											th Factor:			lout Year:		
E/W Street. Whilden y Road					1	AM	I PEAK HO	DUD		0100	in racior.	0.001208	Dund	iout i cai	2027	1
							AM PHF =									
	1	W	erly Road		1		rly Road	0.89	1	Manda Cita	e Driveway		1	White Oal	c Pond Road	
			tbound				bound				bound				ibound	
Description	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Description	0-1um	Len	Through	Kigin	0-rum	Len	Through	Right	0-rum	Lett	mough	Right	0-1um	Leit	Through	Right
2024 Traffic Count	0	4	72	0	0	0	98	19	0	0	0	0	0	16	0	9
Count Balancing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2024 Existing Traffic	0	4	72	0	0	0	98	19	0	0	0	0	0	16	0	9
_																
Growth Factor 2.0% per year	0.000	0.000	0.061	0.000	0.000	0.000	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027 Background Growth	0	0	4	0	0	0	6	0	0	0	0	0	0	0	0	0
Committed Projects																
Sweetwater Commercial	0	0	26	0	0	0	14	0	0	0	0	0	0	0	0	0
Parks at Wimberly (50% Remaining) Retreat at Preserve at White Oak	0	1	6 11	0	0	0	1	8	0	0	0	0	0	20 0	0	3
Westford - Commercial	0	0	4	0	0	0	6	0	0	0	0	0	0	0	0	0
Apex Light Industrial	0	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0
Yellowbridge PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arden at Summit Pines	ő	0	0	0	0	Ő	0	0	ő	0	0	0	0	0	ő	0
Total Committed Traffic	0	1	66	0	0	0	35	8	0	0	0	0	0	20	0	3
									-							
2027 Background Traffic	0	5	142	0	0	0	139	27	0	0	0	0	0	36	0	12
_																
Project Traffic																
Percent Assignment Inbound	0%	0%	10%	5%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Inbound Project Traffic	0	0	3	1	0	6	0	0	0	0	0	0	0	0	0	0
	0.01	0.04	0.04	0.04	0.01	0.07	100/	0.07	0.01	504	0.01	2004	0.07	0.04	0.07	0.01
Percent Assignment Outbound	0%	0%	0%	0%	0%	0%	10%	0%	0%	5%	0%	20%	0%	0%	0%	0%
Outbound Project Traffic	0	0	0	0	0	0	9	0	0	5	0	18	0	0	0	0
Total Project Traffic	0	0	3	1	0	6	9	0	0	5	0	18	0	0	0	0
Total Floject Franc	U	0	3	1	U	0	9	0	U	5	0	10	U	0	0	0
2027 Buildout Total	0	5	145	1	0	6	148	27	0	5	0	18	0	36	0	12
Percent Impact (Approach)	0	-	.6%	•	0		3%	21	0	-	0.0%	10			0%	
Overell Bereast Impact	10.4%	2	.070		1	0.	270		1	100			1	0.		

Overall Percent Impact 10.4%

PM PEAK HOUR PM PHF =0.87

							PM PHF =	0.87								
		East	rly Road bound			West	rly Road bound			Nort	e Driveway h bound			South	k Pond Road h bound	
Description	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
2024 Traffic Count	0	11	145	0	0	0	67	15	0	0	0	0	0	9	0	11
Count Balancing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2024 Existing Traffic	0	11	145	0	0	0	67	15	0	0	0	0	0	9	0	11
Growth Factor 2.0% per year	0.000	0.000	0.061	0.000	0.000	0.000	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027 Background Growth	0	0	9	0	0	0	4	0	0	0	0	0	0	0	0	0
Committed Projects																
Sweetwater Commercial	0	0	25	0	0	0	32	0	0	0	0	0	0	0	0	0
Parks at Wimberly (50% Remaining)	0	4	4	0	0	0	2	26	0	0	0	0	0	13	0	2
Retreat at Preserve at White Oak	0	0	11	0	0	0	12	0	0	0	0	0	0	0	0	0
Westford - Commercial	0	0	7	0	0	0	5	0	0	0	0	0	0	0	0	0
Apex Light Industrial	0	0	7	0	0	0	16	0	0	0	0	0	0	0	0	0
Yellowbridge PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arden at Summit Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Committed Traffic	0	4	54	0	0	0	67	26	0	0	0	0	0	13	0	2
2027 Background Traffic	0	15	208	0	0	0	138	41	0	0	0	0	0	22	0	13
Project Traffic																
Percent Assignment Inbound	0%	0%	10%	5%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Inbound Project Traffic	0	0	7	4	0	14	0	0	0	0	0	0	0	0	0	0
Percent Assignment Outbound	0%	0%	0%	0%	0%	0%	10%	0%	0%	5%	0%	20%	0%	0%	0%	0%
Outbound Project Traffic	0	0	0	0	0	0	5	0	0	2	0	9	0	0	0	0
Total Project Traffic	0	0	7	4	0	14	5	0	0	2	0	9	0	0	0	0
2027 Buildout Total	0	15	215	4	0	14	143	41	0	2	0	9	0	22	0	13
Percent Impact (Approach)		4.	7%			9.	6%	-		10	0.0%			0.	.0%	

Overall Percent Impact 8.6%

					In	tersecti	ion Anal	ysis Sh	eet							
					-							AM In	AM Out		PM Out	_
Project: Jenks @ Wimb	erly Residentia	ıl									New Trips:		92	71	46	
Location: Apex, NC										Pass	-By Trips:	0	0	0	0	
Ct. Date 4/25/2024																-
N/S Street: Wimberly Road	1								А	nnual Gro	owth Rate:	2.0%	Exis	ting Year	: 2024	1
E/W Street: Retreat at Pres	erve Drwy./So	uth Site D	rwv.		1					Grow	th Factor:	0.061208	Build	lout Year	: 2027	
					1	AM	I PEAK HO	DUR				0.001200			2027	1
							AM PHF =									
		South S	ite Drwy.		Retrea	t at Preserve	at White Oak	Drwy.		Wimbe	rly Road			Wimb	erly Road	
		East	bound			West	bound			North	nbound			Sout	hbound	
Description	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
2024 Traffic Count	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Balancing	0	0	0	0	0	0	0	0	0	0	117	0	0	0	88	0
2024 Existing Traffic	0	0	0	0	0	0	0	0	0	0	117	0	0	0	88	0
Growth Factor 2.0% per year	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.061	0.000	0.000	0.000	0.061	0.000
2027 Background Growth	0	0	0	0	0	0	0	0	0	0	7	0	0	0	5	0
Committed Projects																
Sweetwater Commercial	0	0	0	0	0	0	0	0	0	0	14	0	0	0	26	0
Parks at Wimberly (50% Remaining)	0	0	0	0	0	0	0	0	0	0	8	0	0	0	26	0
Retreat at Preserve at White Oak	0	0	0	0	0	31	0	11	0	0	0	46	0	11	0	0
Westford - Commercial	0	0	0	0	0	0	0	0	0	0	6	0	0	0	4	0
Apex Light Industrial	0	0	0	0	0	0	0	0	0	0	3	0	0	0	19	0
Yellowbridge PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arden at Summit Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Committed Traffic	0	0	0	0	0	31	0	11	0	0	31	46	0	11	75	0
2027 Background Traffic	0	0	0	0	0	31	0	11	0	0	155	46	0	11	168	0
Project Traffic																
Percent Assignment Inbound	0%	0%	0%	0%	0%	0%	0%	0%	0%	65%	20%	0%	0%	0%	0%	10%
Inbound Project Traffic	0	0	0	0	0	0	0	0	0	18	6	0	0	0	0	3
Percent Assignment Outbound	0%	10%	0%	65%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	0%
Outbound Project Traffic	0	9	0	60	0	0	0	0	0	0	0	0	0	0	18	0
Total Project Traffic	0	9	0	60	0	0	0	0	0	18	6	0	0	0	18	3
2027 Buildout Total	0	9	0	60	0	31	0	11	0	18	161	46	0	11	186	3
Percent Impact (Approach)		10).0%			0.	0%			10	.7%			10	0.5%	
Overall Percent Im	100.0%												A			

Overall Percent Impact 21.3%

PM PEAK HOUR PM PHF =0.9

							PM PHF =	0.9								
		South S	ite Drwy.		Retrea	t at Preserve	at White Oak	Drwy.		Wimbe	rly Road			Wimbe	erly Road	
		East	bound			West	tbound			North	abound			Sout	hbound	
Description	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
2024 Traffic Count	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Balancing	0	0	0	0	0	0	0	0	0	0	82	0	0	0	154	0
2024 Existing Traffic	0	0	0	0	0	0	0	0	0	0	82	0	0	0	154	0
Growth Factor 2.0% per year	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.061	0.000	0.000	0.000	0.061	0.000
2027 Background Growth	0	0	0	0	0	0	0	0	0	0	5	0	0	0	9	0
Committed Projects																
Sweetwater Commercial	0	0	0	0	0	0	0	0	0	0	32	0	0	0	25	0
Parks at Wimberly (50% Remaining)	0	0	0	0	0	0	0	0	0	0	28	0	0	0	17	0
Retreat at Preserve at White Oak	0	0	0	0	0	42	0	12	0	0	0	40	0	11	0	0
Westford - Commercial	0	0	0	0	0	0	0	0	0	0	5	0	0	0	7	0
Apex Light Industrial	0	0	0	0	0	0	0	0	0	0	16	0	0	0	7	0
Yellowbridge PUD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arden at Summit Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Committed Traffic	0	0	0	0	0	42	0	12	0	0	81	40	0	11	56	0
2027 Background Traffic	0	0	0	0	0	42	0	12	0	0	168	40	0	11	219	0
Project Traffic																
Percent Assignment Inbound	0%	0%	0%	0%	0%	0%	0%	0%	0%	65%	20%	0%	0%	0%	0%	10%
Inbound Project Traffic	0	0	0	0	0	0	0	0	0	46	14	0	0	0	0	7
Percent Assignment Outbound	0%	10%	0%	65%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	0%
Outbound Project Traffic	0	5	0	30	0	0	0	0	0	0	0	0	0	0	9	0
Total Project Traffic	0	5	0	30	0	0	0	0	0	46	14	0	0	0	9	7
2027 Buildout Total	0	5	0	30	0	42	0	12	0	46	182	40	0	11	228	7
Percent Impact (Approach)	19 40/	100).0%			0.	.0%			22	.4%			6	.5%	

Overall Percent Impact 18.4%

Appendix F: Synchro Output: Existing (2024)

Jenks at Wimberly Residential 1: Jenks Road & US 64 Westbound

	فر	+	\mathbf{r}	4	+	*	•	1	1	1	Ļ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					††	۲		1				1
Traffic Volume (vph)	0	0	0	0	1327	82	0	124	0	0	0	141
Future Volume (vph)	0	0	0	0	1327	82	0	124	0	0	0	141
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		-2%			4%			1%			-1%	
Storage Length (ft)	0		0	0		100	0		0	0		150
Storage Lanes	0		0	0		1	0		0	0		0
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	0	0	0	0	3131	1401	0	1734	0	0	0	1488
Flt Permitted												
Satd. Flow (perm)	0	0	0	0	3131	1401	0	1734	0	0	0	1488
Link Speed (mph)		55			55			45			45	
Link Distance (ft)		1006			267			188			1026	
Travel Time (s)		12.5			3.3			2.8			15.5	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	13%	13%	13%	9%	9%	9%	11%	11%	11%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1442	89	0	135	0	0	0	153
Sign Control		Free			Free			Yield			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized	d											
Intersection Capacity Utiliz	ation 93.3%			IC	U Level	of Service	e F					
Analysis Period (min) 15												

2

Intersection

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations					11	1		1				1	
Traffic Vol, veh/h	0	0	0	0	1327	82	0	124	0	0	0	141	
Future Vol, veh/h	0	0	0	0	1327	82	0	124	0	0	0	141	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Yield	Yield	Yield	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	Yield	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	100	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	-2	-	-	4	-	-	1	-	-	-1	-	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	13	13	13	9	9	9	11	11	11	
Mvmt Flow	0	0	0	0	1442	89	0	135	0	0	0	153	

Major/Minor		Major2			Minor2			
Conflicting Flow All		-	-	0	-	-	721	
Stage 1		-	-	-	-	-	-	
Stage 2		-	-	-	-	-	-	
Critical Hdwy		-	-	-	-	-	7.02	
Critical Hdwy Stg 1		-	-	-	-	-	-	
Critical Hdwy Stg 2		-	-	-	-	-	-	
Follow-up Hdwy		-	-	-	-	-	3.41	
Pot Cap-1 Maneuver		0	-	-	0	0	357	
Stage 1		0	-	-	0	0	-	
Stage 2		0	-	-	0	0	-	
Platoon blocked, %			-	-				
Mov Cap-1 Maneuver		-	-	-	-	0	357	
Mov Cap-2 Maneuver		-	-	-	-	0	-	
Stage 1		-	-	-	-	0	-	
Stage 2		-	-	-	-	0	-	
Approach		WB			SB			
HCM Control Delay, s/v		0			22.5			
HCM LOS					С			
Minor Lane/Major Mvmt	WBT	WBR SBLn1						
Capacity (veh/h)	-	- 357						
HCM Lane V/C Ratio	-	- 0.429						
HCM Control Delay (s/veh)	-	- 22.5						
HCM Lane LOS	-	- C						
HCM 95th %tile Q (veh)	-	- 2.1						

	٦	+	+	•	1	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		††			3	
Traffic Volume (vph)	0	1589	0	0	73	0
Future Volume (vph)	0	1589	0	0	73	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)		-1%	0%		0%	
Storage Length (ft)	0			0	0	0
Storage Lanes	0			0	1	0
Taper Length (ft)	100				100	
Satd. Flow (prot)	0	3359	0	0	1770	0
Flt Permitted					0.950	
Satd. Flow (perm)	0	3359	0	0	1770	0
Link Speed (mph)		55	55		45	
Link Distance (ft)		999	830		63	
Travel Time (s)		12.4	10.3		1.0	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	8%	8%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1727	0	0	79	0
Sign Control		Free	Free		Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalize	d					
Intersection Capacity Utiliz	zation 89.6%			IC	U Level	of Service
Analysis Period (min) 15						

Intersection

Int Delay, s/veh	1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		††			2	
Traffic Vol, veh/h	0	1589	0	0	73	0
Future Vol, veh/h	0	1589	0	0	73	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	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	-1	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	8	8	2	2	2	2
Mvmt Flow	0	1727	0	0	79	0

Major/Minor	Major1		Minor2		
Conflicting Flow All	-	0	864	-	
Stage 1	-	-	0	-	
Stage 2	-	-	864	-	
Critical Hdwy	-	-	6.84	-	
Critical Hdwy Stg 1	-	-	-	-	
Critical Hdwy Stg 2	-	-	5.84	-	
Follow-up Hdwy	-	-	3.52	-	
Pot Cap-1 Maneuver	0	-	293	0	
Stage 1	0	-	-	0	
Stage 2	0	-	373	0	
Platoon blocked, %		-			
Mov Cap-1 Maneuve		-	293	-	
Mov Cap-2 Maneuve	r -	-	293	-	
Stage 1	-	-	-	-	
Stage 2	-	-	373	-	

Approach	EB	SB	
HCM Control Delay, s/v	0	21.8	
HCM LOS		С	

Minor Lane/Major Mvmt	EBT SBLn1
Capacity (veh/h)	- 293
HCM Lane V/C Ratio	- 0.271
HCM Control Delay (s/veh)	- 21.8
HCM Lane LOS	- C
HCM 95th %tile Q (veh)	- 1.1

Jenks at Wimberly Residential 3: Wimberly Road & Jenks Road

4 5 4 5 4	SBR 35 35 1900 9
5 4 5 4 0 1900 9 12 0%	35 35 1900
5 4 5 4 0 1900 9 12 0%	35 1900
0 1900 9 12 0%	1900
9 12 0%	
0%	9
0	
-	100
0	1
0	
0 1781	1425
0.956	
0 1781	1425
45	
590	
8.9	
0 0.90	0.90
6 100% 1	100%
6 2%	2%
0 0	0
0%	
0 54	39
Stop	
	0 1781 0.956 0 1781 45 590 8.9 0 0.90 % 100% % 2% 0 0 0 0 0%

Analysis Period (min) 15

4.7

Intersection

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	۲	↑	1	٦	4			च	1		4	1	
Traffic Vol, veh/h	74	135	7	14	81	31	9	8	42	45	4	35	
Future Vol, veh/h	74	135	7	14	81	31	9	8	42	45	4	35	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	200	-	0	250	-	-	-	-	100	-	-	100	
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	82	150	8	16	90	34	10	9	47	50	4	39	

Major/Minor	Major1		Ν	/lajor2		I	Vinor1		[Vinor2			
Conflicting Flow All	124	0	0	158	0	0	475	470	150	485	461	107	
Stage 1	-	-	-	-	-	-	314	314	-	139	139	-	
Stage 2	-	-	-	-	-	-	161	156	-	346	322	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1463	-	-	1422	-	-	500	492	896	492	497	947	
Stage 1	-	-	-	-	-	-	697	656	-	864	782	-	
Stage 2	-	-	-	-	-	-	841	769	-	670	651	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1463	-	-	1422	-	-	452	460	896	436	464	947	
Mov Cap-2 Maneuver	-	-	-	-	-	-	452	460	-	436	464	-	
Stage 1	-	-	-	-	-	-	658	619	-	816	773	-	
Stage 2	-	-	-	-	-	-	793	761	-	591	615	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s/v	2.6	0.8	10.4	12.2	
HCM LOS			В	В	

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	BLn1	SBLn2
Capacity (veh/h)	456	896	1463	-	-	1422	-	-	438	947
HCM Lane V/C Ratio	0.041	0.052	0.056	-	-	0.011	-	- ().124	0.041
HCM Control Delay (s/veh)	13.2	9.2	7.6	-	-	7.6	-	-	14.4	9
HCM Lane LOS	В	А	А	-	-	А	-	-	В	А
HCM 95th %tile Q (veh)	0.1	0.2	0.2	-	-	0	-	-	0.4	0.1

	الر	-	+	•	1	4	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		ধ	eî.		7	1	
Traffic Volume (vph)	4	72	98	19	16	9	
Future Volume (vph)	4	72	98	19	16	9	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)		0%	0%		0%		
Storage Length (ft)	0			0	100	0	
Storage Lanes	0			0	1	1	
Taper Length (ft)	100				50		
Satd. Flow (prot)	0	1708	1674	0	1671	1495	
Flt Permitted		0.998			0.950		
Satd. Flow (perm)	0	1708	1674	0	1671	1495	
Link Speed (mph)		45	45		25		
Link Distance (ft)		701	647		405		
Travel Time (s)		10.6	9.8		11.0		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	11%	11%	11%	11%	8%	8%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)		0%	0%		0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	0	84	130	0	18	10	
Sign Control		Free	Free		Stop		
Intersection Summary							
Area Type:	Other						
Control Type: Unsignalize	d						
Intersection Capacity Utiliz	zation 17.1%			IC	CU Level o	of Service	λ
Analysis Period (min) 15							

Intersection Int Delay, s/veh 1.2 Movement EBL EBT WBT WBR SBL SBR **1** 72 Lane Configurations Þ ٦ ۴ Traffic Vol, veh/h 4 98 19 16 9 Future Vol, veh/h 4 72 98 19 16 9 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Free Free Free Free Stop Stop RT Channelized -None None -None -Storage Length 100 0 ----Veh in Median Storage, # -0 0 -0 -Grade, % 0 0 0 ---Peak Hour Factor 90 90 90 90 90 90 Heavy Vehicles, % 11 11 11 11 8 8 Mvmt Flow 4 80 109 21 18 10

Major/Minor	Major1	Majo	or2	ſ	Minor2	
Conflicting Flow All	130	0	-	0	208	120
Stage 1	-	-	-	-	120	-
Stage 2	-	-	-	-	88	-
Critical Hdwy	4.21	-	-	-	6.48	6.28
Critical Hdwy Stg 1	-	-	-	-	5.48	-
Critical Hdwy Stg 2	-	-	-	-	5.48	-
Follow-up Hdwy	2.299	-	-	-	3.572	3.372
Pot Cap-1 Maneuver	1402	-	-	-	767	916
Stage 1	-	-	-	-	891	-
Stage 2	-	-	-	-	921	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1402	-	-	-	765	916
Mov Cap-2 Maneuver	-	-	-	-	765	-
Stage 1	-	-	-	-	888	-
Stage 2	-	-	-	-	921	-

Approach	EB	WB	SB	
HCM Control Delay, s/v	0.4	0	9.5	
HCM LOS			А	

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	1402	-	-	-	765	916
HCM Lane V/C Ratio	0.003	-	-	-	0.023	0.011
HCM Control Delay (s/veh)	7.6	0	-	-	9.8	9
HCM Lane LOS	А	А	-	-	А	А
HCM 95th %tile Q (veh)	0	-	-	-	0.1	0

Jenks at Wimberly Residential 1: Jenks Road & US 64 Westbound

	٨	+	7	4	+	•	•	t	1	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					^	۲		•				1
Traffic Volume (vph)	0	0	0	0	1614	71	0	100	0	0	0	157
Future Volume (vph)	0	0	0	0	1614	71	0	100	0	0	0	157
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		-2%			4%			1%			-1%	
Storage Length (ft)	0		0	0		100	0		0	0		150
Storage Lanes	0		0	0		1	0		0	0		0
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	0	0	0	0	3276	1465	0	1767	0	0	0	1544
Flt Permitted												
Satd. Flow (perm)	0	0	0	0	3276	1465	0	1767	0	0	0	1544
Link Speed (mph)		55			55			45			35	
Link Distance (ft)		1006			267			188			1026	
Travel Time (s)		12.5			3.3			2.8			20.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	8%	8%	8%	7%	7%	7%	7%	7%	7%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1664	73	0	103	0	0	0	162
Sign Control		Free			Free			Yield			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												
Intersection Capacity Utiliza	ation 98.7%			IC	CU Level	of Service	F					
Analysis Period (min) 15												

2.5

Intersection

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations					11	1		1				1	
Traffic Vol, veh/h	0	0	0	0	1614	71	0	100	0	0	0	157	
Future Vol, veh/h	0	0	0	0	1614	71	0	100	0	0	0	157	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Yield	Yield	Yield	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	Yield	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	100	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	-2	-	-	4	-	-	1	-	-	-1	-	
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97	
Heavy Vehicles, %	2	2	2	8	8	8	7	7	7	7	7	7	
Mvmt Flow	0	0	0	0	1664	73	0	103	0	0	0	162	

Major/Minor		Major2			Minor2			
Conflicting Flow All		-	-	0	-	-	832	
Stage 1		-	-	-	-	-	-	
Stage 2		-	-	-	-	-	-	
Critical Hdwy		-	-	-	-	-	6.94	
Critical Hdwy Stg 1		-	-	-	-	-	-	
Critical Hdwy Stg 2		-	-	-	-	-	-	
Follow-up Hdwy		-	-	-	-	-	3.37	
Pot Cap-1 Maneuver		0	-	-	0	0	309	
Stage 1		0	-	-	0	0	-	
Stage 2		0	-	-	0	0	-	
Platoon blocked, %			-	-				
Mov Cap-1 Maneuver		-	-	-	-	0	309	
Mov Cap-2 Maneuver		-	-	-	-	0	-	
Stage 1		-	-	-	-	0	-	
Stage 2		-	-	-	-	0	-	
Approach		WB			SB			
HCM Control Delay, s/v		0			28.8			
HCM LOS					D			
Minor Lane/Major Mvmt	WBT	WBR SBLn1						
Capacity (veh/h)	-	- 309						
HCM Lane V/C Ratio	-	- 0.524						
HCM Control Delay (s/veh)	-	- 28.8						
HCM Lane LOS	-	- D						
HCM 95th %tile Q (veh)	-	- 2.9						

	٦	+	Ŧ	•	1	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		††			3	
Traffic Volume (vph)	0	1438	0	0	73	0
Future Volume (vph)	0	1438	0	0	73	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)		-1%	0%		0%	
Storage Length (ft)	0			0	0	0
Storage Lanes	0			0	1	0
Taper Length (ft)	100				100	
Satd. Flow (prot)	0	3391	0	0	1752	0
Flt Permitted					0.950	
Satd. Flow (perm)	0	3391	0	0	1752	0
Link Speed (mph)		55	55		45	
Link Distance (ft)		999	830		63	
Travel Time (s)		12.4	10.3		1.0	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	7%	7%	2%	2%	3%	3%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1498	0	0	76	0
Sign Control		Free	Free		Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized	d					
Intersection Capacity Utiliz	zation 93.6%			IC	CU Level	of Service
Analysis Period (min) 15						

Intersection							
Int Delay, s/veh	0.9						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		^			٦		
Traffic Vol, veh/h	0	1438	0	0	73	0	1
Future Vol, veh/h	0	1438	0	0	73	0	I
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop)
RT Channelized	-	None	-	None	-	None	,
Storage Length	-	-	-	-	0	-	
Veh in Median Storage	e,# -	0	0	-	0	-	
Grade, %	-	-1	0	-	0	-	
Peak Hour Factor	96	96	96	96	96	96	J
Heavy Vehicles, %	7	7	2	2	3	3	j
Mvmt Flow	0	1498	0	0	76	0	1

Major/Minor	Major1		Minor2		
Conflicting Flow All	-	0	749	-	
Stage 1	-	-	0	-	
Stage 2	-	-	749	-	
Critical Hdwy	-	-	6.86	-	
Critical Hdwy Stg 1	-	-	-	-	
Critical Hdwy Stg 2	-	-	5.86	-	
Follow-up Hdwy	-	-	3.53	-	
Pot Cap-1 Maneuver	0	-	345	0	
Stage 1	0	-	-	0	
Stage 2	0	-	425	0	
Platoon blocked, %		-			
Mov Cap-1 Maneuve		-	345	-	
Mov Cap-2 Maneuve	r -	-	345	-	
Stage 1	-	-	-	-	
Stage 2	-	-	425	-	

Approach	EB	SB	
HCM Control Delay, s/v	0	18.4	
HCM LOS		С	

Minor Lane/Major Mvmt	EBT SBLn1
Capacity (veh/h)	- 345
HCM Lane V/C Ratio	- 0.22
HCM Control Delay (s/veh)	- 18.4
HCM Lane LOS	- C
HCM 95th %tile Q (veh)	- 0.8

Jenks at Wimberly Residential 3: Wimberly Road & Jenks Road

	٨	+	*	4	+	*	•	1	1	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1	*	1	ĥ			۴.	1		Ł	1
Traffic Volume (vph)	46	91	7	36	103	33	7	4	35	79	13	65
Future Volume (vph)	46	91	7	36	103	33	7	4	35	79	13	65
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	9	12	9
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	200		0	250		0	0		100	0		100
Storage Lanes	1		1	1		0	0		1	0		1
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	1770	1863	1583	1770	1796	0	0	1803	1583	0	1786	1425
Flt Permitted	0.950			0.950				0.968			0.959	
Satd. Flow (perm)	1770	1863	1583	1770	1796	0	0	1803	1583	0	1786	1425
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		1338			1087			333			590	
Travel Time (s)		20.3			16.5			7.6			8.9	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												1
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	51	100	8	40	149	0	0	12	38	0	101	71
Sign Control		Free			Free			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												
Intersection Capacity Utiliza	ation 32.5%	1		10	CU Level	of Service	A					

Analysis Period (min) 15

5.8

Intersection

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	3	↑	1	۲	-Te			4	1		đ	1	
Traffic Vol, veh/h	46	91	7	36	103	33	7	4	35	79	13	65	
Future Vol, veh/h	46	91	7	36	103	33	7	4	35	79	13	65	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	200	-	0	250	-	-	-	-	100	-	-	100	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	51	100	8	40	113	36	8	4	38	87	14	71	

Major/Minor	Major1		Ν	/lajor2			Minor1		I	Minor2			
Conflicting Flow All	149	0	0	108	0	0	456	431	100	438	421	131	
Stage 1	-	-	-	-	-	-	202	202	-	211	211	-	
Stage 2	-	-	-	-	-	-	254	229	-	227	210	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1432	-	-	1483	-	-	515	517	956	529	524	919	
Stage 1	-	-	-	-	-	-	800	734	-	791	728	-	
Stage 2	-	-	-	-	-	-	750	715	-	776	728	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1432	-	-	1483	-	-	443	485	956	480	492	919	
Mov Cap-2 Maneuver	-	-	-	-	-	-	443	485	-	480	492	-	
Stage 1	-	-	-	-	-	-	771	708	-	763	708	-	
Stage 2	-	-	-	-	-	-	659	696	-	714	702	-	
A 1	50									00			

oproach	EB	WB	NB	SB	
CM Control Delay, s/v	2.4	1.6	9.9	12.2	
CM LOS			А	В	
CMLOS			А	В	

Minor Lane/Major Mvmt	NBLn1 NBLn2		EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1	SBLn2
Capacity (veh/h)	457	956	1432	-	-	1483	-	-	482	919
HCM Lane V/C Ratio	0.026	0.04	0.035	-	-	0.027	-	-	0.21	0.078
HCM Control Delay (s/veh)	13.1	8.9	7.6	-	-	7.5	-	-	14.4	9.2
HCM Lane LOS	В	А	А	-	-	А	-	-	В	А
HCM 95th %tile Q (veh)	0.1	0.1	0.1	-	-	0.1	-	-	0.8	0.3

	٨	+	Ŧ	•	1	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		च	eî.		7	*
Traffic Volume (vph)	11	145	67	15	9	11
Future Volume (vph)	11	145	67	15	9	11
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)		0%	0%		0%	
Storage Length (ft)	0			0	100	0
Storage Lanes	0			0	1	1
Taper Length (ft)	100				50	
Satd. Flow (prot)	0	1857	1781	0	1641	1468
Flt Permitted		0.997			0.950	
Satd. Flow (perm)	0	1857	1781	0	1641	1468
Link Speed (mph)		30	55		30	
Link Distance (ft)		701	647		405	
Travel Time (s)		15.9	8.0		9.2	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	4%	4%	10%	10%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	173	91	0	10	12
Sign Control		Free	Free		Stop	
Intersection Summary						
Area Type:	Other					
Control Type: Unsignalized	d					
Intersection Capacity Utiliz	CU Level of	of Service				
Analysis Period (min) 15						

Intersection

Int Delay, s/veh	1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		- 4	4		٦	1
Traffic Vol, veh/h	11	145	67	15	9	11
Future Vol, veh/h	11	145	67	15	9	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	100	0
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	4	4	10	10
Mvmt Flow	12	161	74	17	10	12

Major/Minor	Major1	Maj	or2	Ν	1inor2		
Conflicting Flow All	91	0	-	0	268	83	
Stage 1	-	-	-	-	83	-	
Stage 2	-	-	-	-	185	-	
Critical Hdwy	4.12	-	-	-	6.5	6.3	
Critical Hdwy Stg 1	-	-	-	-	5.5	-	
Critical Hdwy Stg 2	-	-	-	-	5.5	-	
Follow-up Hdwy	2.218	-	-	-	3.59	3.39	
Pot Cap-1 Maneuver	1504	-	-	-	704	955	
Stage 1	-	-	-	-	920	-	
Stage 2	-	-	-	-	828	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver		-	-	-	698	955	
Mov Cap-2 Maneuver	-	-	-	-	698	-	
Stage 1	-	-	-	-	912	-	
Stage 2	-	-	-	-	828	-	

Approach	EB	WB	SB	
HCM Control Delay, s/v	0.5	0	9.4	
HCM LOS			А	

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	1504	-	-	-	698	955
HCM Lane V/C Ratio	0.008	-	-	-	0.014	0.013
HCM Control Delay (s/veh)	7.4	0	-	-	10.2	8.8
HCM Lane LOS	А	А	-	-	В	А
HCM 95th %tile Q (veh)	0	-	-	-	0	0

Appendix G: Synchro Output: Background (2027)

Jenks at Wimberly Residential 1: Jenks Road & US 64 Westbound

	٦	+	7	4	+	*	1	1	1	1	ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					††	*		•				1
Traffic Volume (vph)	0	0	0	0	1642	181	0	185	0	0	0	430
Future Volume (vph)	0	0	0	0	1642	181	0	185	0	0	0	430
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		-2%			4%			1%			-1%	
Storage Length (ft)	0		0	0		100	0		0	0		150
Storage Lanes	0		0	0		1	0		0	0		0
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	0	0	0	0	3131	1401	0	1734	0	0	0	1488
Flt Permitted												
Satd. Flow (perm)	0	0	0	0	3131	1401	0	1734	0	0	0	1488
Right Turn on Red			No			No	No		No			No
Satd. Flow (RTOR)												
Link Speed (mph)		55			55			45			45	
Link Distance (ft)		1006			267			188			1026	
Travel Time (s)		12.5			3.3			2.8			15.5	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	13%	13%	13%	9%	9%	9%	11%	11%	11%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												-
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1785	197	0	201	0	0	0	467
Turn Type					NA	Perm		NA				Perm
Protected Phases					6			3				
Permitted Phases						6						8
Detector Phase					6	6		3				8
Switch Phase												-
Minimum Initial (s)					14.0	14.0		7.0				7.0
Minimum Split (s)					20.2	20.2		12.6				12.6
Total Split (s)					65.0	65.0		45.0				45.0
Total Split (%)					59.1%	59.1%		40.9%				40.9%
Yellow Time (s)					4.8	4.8		3.0				3.0
All-Red Time (s)					1.4	1.4		2.6				2.6
Lost Time Adjust (s)					-1.2	-1.2		-0.6				-0.6
Total Lost Time (s)					5.0	5.0		5.0				5.0
Lead/Lag												
Lead-Lag Optimize?												
Recall Mode					C-Max	C-Max		None				None
Act Effct Green (s)					62.7	62.7		37.3				37.3
Actuated g/C Ratio					0.57	0.57		0.34				0.34
v/c Ratio					1.00	0.24		0.34				0.92
Control Delay (s/veh)					46.5	13.5		27.4				60.4
Queue Delay					0.0	0.0		0.0				0.0
Total Delay (s/veh)					46.5	13.5		27.4				60.4
					10.0	10.0		2 7.7				

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\Synchro\2-Jenks@WimberlyRes-Background.syn Kimley-Horn Synchro 12 Report

	٦	-	\mathbf{F}	•	←	*	1	t	1	\mathbf{k}	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
LOS					D	В		С				E
Approach Delay (s/veh)					43.3			27.4			60.4	
Approach LOS					D			С			E	
Queue Length 50th (ft)					~721	70		126				303
Queue Length 95th (ft)					#861	115		m140				#490
Internal Link Dist (ft)		926			187			108			946	
Turn Bay Length (ft)						100						150
Base Capacity (vph)					1783	798		630				541
Starvation Cap Reductn					0	0		0				0
Spillback Cap Reductn					0	0		0				0
Storage Cap Reductn					0	0		0				0
Reduced v/c Ratio					1.00	0.25		0.32				0.86
Intersection Summary												
Area Type: 0	Other											
Cycle Length: 110												
Actuated Cycle Length: 110												
Offset: 0 (0%), Referenced to	o phase 2:	and 6:WI	3T, Start	of Green								
Natural Cycle: 100												
Control Type: Actuated-Coor	rdinated											
Maximum v/c Ratio: 1.00												
Intersection Signal Delay (s/					itersectior							
Intersection Capacity Utilizat	ion 131.2%	, D		IC	CU Level o	of Service	Н					
Analysis Period (min) 15												
 Volume exceeds capacit 			ally infini	te.								
Queue shown is maximur		3										
# 95th percentile volume e		J 1	eue may	be longe	r.							
Queue shown is maximur												
m Volume for 95th percent	ile queue i	s metereo	l by upstr	eam sign	ial.							
Splits and Phases: 1: Jenl	ks Road &	LIS 64 W/	≏sthound									
			Sibound									

	↑ ø3 45 s
Ø6 (R)	ØB
65 s	45 s

	٦	-	+	•	1	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		^			SDL N	55K
Traffic Volume (vph)	0	1833	0	0	239	0
Future Volume (vph)	0	1833	0	0	239	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	12	-1%	0%	12	0%	12
Storage Length (ft)	0	170	070	0	0/0	0
Storage Lanes	0			0	1	0
Taper Length (ft)	100			U	100	U
Satd. Flow (prot)	0	3359	0	0	1770	0
Flt Permitted	0	3337	0	0	0.950	0
Satd. Flow (perm)	0	3359	0	0	1770	0
Right Turn on Red	U	2224	U	No	No	No
Satd. Flow (RTOR)				NU	NO	NU
		EE	EE		/ E	
Link Speed (mph)		55	55		45	
Link Distance (ft)		999 12.4	830		63	
Travel Time (s)		12.4	10.3		1.0	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)	0.00	0.00	0.00	0.00	0.00	0.00
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	8%	8%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1992	0	0	260	0
Turn Type		NA			Prot	
Protected Phases		2			7	
Permitted Phases						
Detector Phase		2			7	
Switch Phase						
Minimum Initial (s)		14.0			7.0	
Minimum Split (s)		20.3			13.3	
Total Split (s)		80.0			30.0	
Total Split (%)		72.7%			27.3%	
Yellow Time (s)		5.3			3.0	
All-Red Time (s)		1.0			3.3	
Lost Time Adjust (s)		-1.3			-1.3	
Total Lost Time (s)		5.0			5.0	
Lead/Lag		5.0			5.0	
Lead-Lag Optimize? Recall Mode		C-Max			None	
Act Effct Green (s)		79.0			21.0	
Actuated g/C Ratio		0.72			0.19	
v/c Ratio		0.82			0.77	
Control Delay (s/veh)		15.4			39.2	
Queue Delay		0.0			0.0	
Total Delay (s/veh)		15.4			39.2	

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\Synchro\2-Jenks@WimberlyRes-Background.syn Kimley-Horn

Ø7

	→ →	+	×	*	4
Lane Group	EBL EBT	WBT	WBR	SBL	SBR
LOS	В			D	
Approach Delay (s/veh)	15.5			39.2	
Approach LOS	В			D	
Queue Length 50th (ft)	462			74	
Queue Length 95th (ft)	652			m89	
Internal Link Dist (ft)	919	750		1	
Turn Bay Length (ft)					
Base Capacity (vph)	2412			402	
Starvation Cap Reductn	0			0	
Spillback Cap Reductn	0			0	
Storage Cap Reductn	0			0	
Reduced v/c Ratio	0.83			0.65	
Intersection Summary					
	her				
Cycle Length: 110					
Actuated Cycle Length: 110					
Offset: 0 (0%), Referenced to	phase 2:EBT and	l 6:, Start (of Green		
Natural Cycle: 70					
Control Type: Actuated-Coord	inated				
Maximum v/c Ratio: 0.83					
Intersection Signal Delay (s/ve				tersection	
Intersection Capacity Utilization	n 109.3%		IC	CU Level c	of Service H
Analysis Period (min) 15					
m Volume for 95th percentile	e queue is metere	ed by upst	ream sign	al.	
Culito and Dhasson 2. U.C. (Eastbound & U-		t of lowlo	Dood	
Splits and Phases: 2: US 64		Tulli wes	I OF JELIKS	RUdu	
Ø2 (R)					
005					

Jenks at Wimberly Residential 3: Wimberly Road & Jenks Road

	الحر	+	\mathbf{F}	4	←	*	1	1	1	1	Ļ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	3	†	1	1	f,			र्भ	1		۴ ۲	7
Traffic Volume (vph)	149	192	7	14	193	40	9	8	42	73	4	118
Future Volume (vph)	149	192	7	14	193	40	9	8	42	73	4	118
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	9	12	9
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	200		0	250		0	0		100	0		100
Storage Lanes	1		1	1		0	0		1	0		1
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	1770	1863	1583	1770	1814	0	0	1814	1583	0	1779	1425
Flt Permitted	0.950			0.950				0.974			0.955	
Satd. Flow (perm)	1770	1863	1583	1770	1814	0	0	1814	1583	0	1779	1425
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		1338			1087			333			5 9 0	
Travel Time (s)		20.3			16.5			5.0			8.9	
Confl. Peds. (#/hr)			7	7			4					4
Confl. Bikes (#/hr)												
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	166	213	8	16	258	0	0	19	47	0	85	131
Sign Control		Free			Free			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												
Intersection Capacity Utiliz	ation 42.1%			IC	CU Level	of Service	e A					
Analysis Period (min) 15												

Intersection													
Int Delay, s/veh	6.6												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	۲	1	1	٦	4			- 4	7		4	1	
Traffic Vol, veh/h	149	192	7	14	193	40	9	8	42	73	4	118	
Future Vol, veh/h	149	192	7	14	193	40	9	8	42	73	4	118	
Conflicting Peds, #/hr	0	0	7	7	0	0	4	0	0	0	0	4	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	200	-	0	250	-	-	-	-	100	-	-	100	
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	166	213	8	16	214	44	10	9	47	81	4	131	

Major/Minor	Major1		Μ	ajor2		ľ	Minor1			Vinor2			
Conflicting Flow All	258	0	0	228	0	0	892	842	220	845	828	240	
Stage 1	-	-	-	-	-	-	552	552	-	268	268	-	
Stage 2	-	-	-	-	-	-	340	290	-	577	560	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	- 2	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1307	-	-	1340	-	-	263	301	820	283	306	799	
Stage 1	-	-	-	-	-	-	518	515	-	738	687	-	
Stage 2	-	-	-	-	-	-	675	672	-	502	511	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1307	-	-	1332	-	-	192	258	815	233	262	796	
Mov Cap-2 Maneuver	-	-	-	-	-	-	192	258	-	233	262	-	
Stage 1	-	-	-	-	-	-	450	447	-	644	679	-	
Stage 2	-	-	-	-	-	-	552	664	-	405	444	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s/v	3.5	0.4	13.6	17.7	
HCM LOS			В	С	

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR SE	3Ln1	SBLn2
Capacity (veh/h)	218	815	1307	-	-	1332	-	-	234	796
HCM Lane V/C Ratio	0.087	0.057	0.127	-	-	0.012	-	- 0).366	0.165
HCM Control Delay (s/veh)	23.1	9.7	8.2	-	-	7.7	-	-	29	10.4
HCM Lane LOS	С	А	А	-	-	А	-	-	D	В
HCM 95th %tile Q (veh)	0.3	0.2	0.4	-	-	0	-	-	1.6	0.6

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\Synchro\2-Jenks@WimberlyRes-Background.syn Kimley-Horn Synchro 12 Report

	٨	-	+	*	4	4	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		च	eî 👘		1	1	
Traffic Volume (vph)	5	142	139	27	36	12	
Future Volume (vph)	5	142	139	27	36	12	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)		0%	0%		0%		
Storage Length (ft)	0			0	100	0	
Storage Lanes	0			0	1	1	
Taper Length (ft)	100				50		
Satd. Flow (prot)	0	1708	1674	0	1671	1495	
Flt Permitted		0.998			0.950		
Satd. Flow (perm)	0	1708	1674	0	1671	1495	
Link Speed (mph)		45	45		25		
Link Distance (ft)		701	647		405		
Travel Time (s)		10.6	9.8		11.0		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	11%	11%	11%	11%	8%	8%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)		0%	0%		0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	0	164	184	0	40	13	
Sign Control		Free	Free		Stop		
Intersection Summary							
Area Type:	Other						
Control Type: Unsignalize	d						
Intersection Capacity Utiliz	zation 21.5%			IC	CU Level	of Service	А
Analysis Period (min) 15							

Intersection						
Int Delay, s/veh	1.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		- 4	4		٦	1
Traffic Vol, veh/h	5	142	139	27	36	12
Future Vol, veh/h	5	142	139	27	36	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	100	0
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	11	11	11	11	8	8
Mvmt Flow	6	158	154	30	40	13

Major/Minor	Major1	Majo	or2		Minor2	
Conflicting Flow All	184	0	-	0	339	169
Stage 1	-	-	-	-	169	-
Stage 2	-	-	-	-	170	-
Critical Hdwy	4.21	-	-	-	6.48	6.28
Critical Hdwy Stg 1	-	-	-	-	5.48	-
Critical Hdwy Stg 2	-	-	-	-	5.48	-
Follow-up Hdwy	2.299	-	-	-	3.572	3.372
Pot Cap-1 Maneuver	1338	-	-	-	645	860
Stage 1	-	-	-	-	846	-
Stage 2	-	-	-	-	846	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1338	-	-	-	642	860
Mov Cap-2 Maneuver	-	-	-	-	642	-
Stage 1	-	-	-	-	842	-
Stage 2	-	-	-	-	846	-

Approach	EB	WB	SB
HCM Control Delay, s/v	0.3	0	10.6
HCM LOS			В

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SB	Ln1 :	SBLn2
Capacity (veh/h)	1338	-	-	- (642	860
HCM Lane V/C Ratio	0.004	-	-	- 0.0	062	0.016
HCM Control Delay (s/veh)	7.7	0	-	-	11	9.3
HCM Lane LOS	А	А	-	-	В	А
HCM 95th %tile Q (veh)	0	-	-	-	0.2	0

	4	•	†	*	1	Ļ		
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT		
Lane Configurations	Y		eî 🗧			र्भ		
Traffic Volume (vph)	31	11	155	46	11	168		
Future Volume (vph)	31	11	155	46	11	168		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Lane Width (ft)	12	12	12	12	12	12		
Grade (%)	0%		0%			0%		
Storage Length (ft)	0	0		0	0			
Storage Lanes	1	0		0	0			
Taper Length (ft)	100				100			
Satd. Flow (prot)	1733	0	1805	0	0	1857		
Flt Permitted	0.964					0.997		
Satd. Flow (perm)	1733	0	1805	0	0	1857		
Link Speed (mph)	25		45			45		
Link Distance (ft)	351		590			647		
Travel Time (s)	9.6		8.9			9.8		
Confl. Peds. (#/hr)								
Confl. Bikes (#/hr)								
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90		
Growth Factor	100%	100%	100%	100%	100%	100%		
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%		
Bus Blockages (#/hr)	0	0	0	0	0	0		
Parking (#/hr)								
Mid-Block Traffic (%)	0%		0%			0%		
Shared Lane Traffic (%)								
Lane Group Flow (vph)	46	0	223	0	0	199		
Sign Control	Stop		Free			Free		
Intersection Summary								
Area Type:	Other							
Control Type: Unsignalized	ł							
Intersection Capacity Utiliz	ation 27.9%			IC	CU Level	of Service	eА	

Analysis Period (min) 15

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	- Y		- î s			- 4
Traffic Vol, veh/h	31	11	155	46	11	168
Future Vol, veh/h	31	11	155	46	11	168
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	e,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	34	12	172	51	12	187

Major/Minor	Minor1	Ν	/lajor1	Ν	lajor2	
Conflicting Flow All	409	198	0	0	223	0
Stage 1	198	-	-	-	-	-
Stage 2	211	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	599	843	-	-	1346	-
Stage 1	835	-	-	-	-	-
Stage 2	824	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver		843	-	-	1346	-
Mov Cap-2 Maneuver	593	-	-	-	-	-
Stage 1	835	-	-	-	-	-
Stage 2	816	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	11	0	0.5
HCM LOS	В		

Minor Lane/Major Mvmt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)	-	-	643	1346	-
HCM Lane V/C Ratio	-	-	0.073	0.009	-
HCM Control Delay (s/veh)	-	-	11	7.7	0
HCM Lane LOS	-	-	В	А	А
HCM 95th %tile Q (veh)	-	-	0.2	0	-

	٦	+	1	4	+	*	•	t	*	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					^	1		•				1
Traffic Volume (vph)	0	0	0	0	1854	235	0	233	0	0	0	421
Future Volume (vph)	0	0	0	0	1854	235	0	233	0	0	0	421
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		-2%			4%			1%			-1%	
Storage Length (ft)	0		0	0		100	0		0	0		150
Storage Lanes	0		0	0		1	0		0	0		0
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	0	0	0	0	3276	1465	0	1750	0	0	0	1544
Flt Permitted												
Satd. Flow (perm)	0	0	0	0	3276	1465	0	1750	0	0	0	1544
Right Turn on Red			No			No	No		No			No
Satd. Flow (RTOR)												
Link Speed (mph)		55			55			45			35	
Link Distance (ft)		1006			267			188			1026	
Travel Time (s)		12.5			3.3			2.8			20.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	8%	8%	8%	8%	8%	8%	7%	7%	7%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)	-	-	-	-	-	-	-	-	-	-	-	-
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)		0,0			0,0			0,0			0,0	
Lane Group Flow (vph)	0	0	0	0	1911	242	0	240	0	0	0	434
Turn Type					NA	Perm		NA				Perm
Protected Phases					6			3				
Permitted Phases						6						8
Detector Phase					6	6		3				8
Switch Phase												-
Minimum Initial (s)					14.0	14.0		7.0				7.0
Minimum Split (s)					20.2	20.2		12.6				12.6
Total Split (s)					55.0	55.0		35.0				35.0
Total Split (%)					61.1%	61.1%		38.9%				38.9%
Yellow Time (s)					4.8	4.8		3.0				3.0
All-Red Time (s)					1.4	1.4		2.6				2.6
Lost Time Adjust (s)					-2.0	-2.0		-2.0				-2.0
Total Lost Time (s)					4.2	4.2		3.6				3.6
Lead/Lag								0.0				0.0
Lead-Lag Optimize?												
Recall Mode					C-Max	C-Max		None				None
Act Effct Green (s)					53.1	53.1		29.1				29.1
Actuated g/C Ratio					0.59	0.59		0.32				0.32
v/c Ratio					0.98	0.28		0.32				0.86
Control Delay (s/veh)					38.3	10.7		23.7				47.6
Queue Delay					0.0	0.0		0.0				0.0
Total Delay (s/veh)					38.3	10.7		23.7				47.6
Total Delay (Sivell)					00.0	10.7		20.7				ч <i>1</i> .0

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\Synchro\2-Jenks@WimberlyRes-Background.syn Kimley-Horn Synchro 12 Report

	٨	-	\mathbf{F}	•	-	*	-	1	1	4	ļ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
LOS					D	В		С				D
Approach Delay (s/veh)					35.2			23.7			47.6	
Approach LOS					D			С			D	
Queue Length 50th (ft)					~620	67		128				221
Queue Length 95th (ft)					#757	112		m144				#378
Internal Link Dist (ft)		926			187			108			946	
Turn Bay Length (ft)						100						150
Base Capacity (vph)					1932	863		610				538
Starvation Cap Reductn					0	0		0				0
Spillback Cap Reductn					0	0		0				0
Storage Cap Reductn					0	0		0				0
Reduced v/c Ratio					0.99	0.28		0.39				0.81
Intersection Summary												
	Other											
Cycle Length: 90												
Actuated Cycle Length: 90												
Offset: 0 (0%), Referenced to	phase 2:	and 6:WI	3T, Start	of Green								
Natural Cycle: 80												
Control Type: Actuated-Coor	dinated											
Maximum v/c Ratio: 0.99												
Intersection Signal Delay (s/					tersectior							
Intersection Capacity Utilizati	ion 134.9%	0		IC	CU Level o	of Service	Н					
Analysis Period (min) 15												
 Volume exceeds capacity 			ally infini	te.								
Queue shown is maximun												
# 95th percentile volume ex			eue may	be longe	r.							
Queue shown is maximun												
m Volume for 95th percenti	le queue is	s meterec	a by upstr	eam sign	ial.							
Splits and Phases: 1: Jenk	s Road &	US 64 W/	asthound									
	S Nuau a	000400	conoullu									

	1 ø3 35 s
Ø6 (R)	øв
55 s	35 s

	٨	-	+	•	1	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		† †		DR) N	OBR
Traffic Volume (vph)	0	1876	0	0	240	0
Future Volume (vph)	0	1876	0	0	240	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	12	-1%	0%	12	0%	12
Storage Length (ft)	0	170	570	0	0,0	0
Storage Lanes	0			0	1	0
Taper Length (ft)	100			U	100	Ū
Satd. Flow (prot)	0	3391	0	0	1752	0
Flt Permitted	0	0071	0	0	0.950	U
Satd. Flow (perm)	0	3391	0	0	1752	0
Right Turn on Red	0	5571	0	No	No	No
Satd. Flow (RTOR)				NU	NU	NU
Link Speed (mph)		55	55		45	
Link Distance (ft)		999	830		45 63	
Travel Time (s)		12.4	10.3		1.0	
Confl. Peds. (#/hr)		12.4	10.5		1.0	
Confl. Bikes (#/hr)				1		
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	7%	100% 7%	3%	3%	3%	3%
Bus Blockages (#/hr)	0	0	3 <i>%</i>	3 <i>7</i> 0	3% 0	3 <i>%</i>
Parking (#/hr)	U	U	U	U	U	U
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)		070	070		U 70	
Lane Group Flow (vph)	0	1954	0	0	250	0
	U	1954 NA	U	U	Prot	U
Turn Type Protected Phases					Prot 7	
Protected Phases Permitted Phases		2			/	
		n			7	
Detector Phase		2			7	
Switch Phase		14.0			7.0	
Minimum Initial (s)		14.0			7.0	
Minimum Split (s)		20.3			13.3	
Total Split (s)		65.0			25.0	
Total Split (%)		72.2%			27.8%	
Yellow Time (s)		5.3			3.0	
All-Red Time (s)		1.0			3.3	
Lost Time Adjust (s)		-1.3			-1.3	
Total Lost Time (s)		5.0			5.0	
Lead/Lag						
Lead-Lag Optimize?		C Mari			Nerse	
Recall Mode		C-Max			None	
Act Effct Green (s)		62.7			17.3	
Actuated g/C Ratio		0.70			0.19	
v/c Ratio		0.82			0.74	
Control Delay (s/veh)		14.5			41.2	
Queue Delay		0.0			0.0	
Total Delay (s/veh)		14.5			41.2	

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\Synchro\2-Jenks@WimberlyRes-Background.syn Kimley-Horn

65 s

Ø7

	_ الا	→	+	•	*	4		
Lane Group	EBL E	EBT	WBT	WBR	SBL	SBR		
LOS		В			D			
Approach Delay (s/veh)	1	14.5			41.3			
Approach LOS		В			D			
Queue Length 50th (ft)		378			64			
Queue Length 95th (ft)	!	531			m83			
Internal Link Dist (ft)		919	750		1			
Turn Bay Length (ft)								
Base Capacity (vph)	2	363			389			
Starvation Cap Reductn		0			0			
Spillback Cap Reductn		0			0			
Storage Cap Reductn		0			0			
Reduced v/c Ratio	С).83			0.64			
Intersection Summary								
Area Type:	Other							
Cycle Length: 90								
Actuated Cycle Length: 90								
Offset: 0 (0%), Referenced	to phase 2:EBT	and 6:	, Start c	of Green				
Natural Cycle: 65								
Control Type: Actuated-Coc	ordinated							
Maximum v/c Ratio: 0.83								
Intersection Signal Delay (s	/veh): 17.5			Ir	ntersection	LOS: B		
Intersection Capacity Utiliza	ation 115.9%			IC	CU Level o	f Service H		
Analysis Period (min) 15								
m Volume for 95th percer	ntile queue is me	etered I	oy upstr	eam sigr	nal.			
Splits and Phases: 2: US	64 Eastbound	& U-Tu	rn West	of Jenks	Road			
→ Ø2 (R)								

Jenks at Wimberly Residential 3: Wimberly Road & Jenks Road

	الحر	+	\mathbf{F}	4	←	*	1	1	1	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	†	*	1	ef.			र्भ	*		र्च	1
Traffic Volume (vph)	159	190	7	36	211	46	7	4	35	114	13	137
Future Volume (vph)	159	190	7	36	211	46	7	4	35	114	13	137
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	9	12	9
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	200		0	250		0	0		100	0		100
Storage Lanes	1		1	1		0	0		1	0		1
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	1770	1863	1583	1770	1812	0	0	1803	1583	0	1783	1425
Flt Permitted	0.950			0.950				0.968			0.957	
Satd. Flow (perm)	1770	1863	1583	1770	1812	0	0	1803	1583	0	1783	1425
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		1338			1087			333			590	
Travel Time (s)		20.3			16.5			7.6			8.9	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	175	209	8	40	283	0	0	12	38	0	139	151
Sign Control		Free			Free			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												
Intersection Capacity Utilization	ation 46.4%			IC	CU Level	of Service	Α					
Analysis Period (min) 15												

Intersection													
Int Delay, s/veh	10.6												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	1	1	٦	4			- 4	1		4	1	
Traffic Vol, veh/h	159	190	7	36	211	46	7	4	35	114	13	137	
Future Vol, veh/h	159	190	7	36	211	46	7	4	35	114	13	137	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None										
Storage Length	200	-	0	250	-	-	-	-	100	-	-	100	
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	175	209	8	40	232	51	8	4	38	125	14	151	

Major/Minor	Major1		Ν	1ajor2			Minor1		I	Vinor2			
Conflicting Flow All	283	0	0	217	0	0	979	922	209	922	905	258	
Stage 1	-	-	-	-	-	-	559	559	-	338	338	-	
Stage 2	-	-	-	-	-	-	420	363	-	584	567	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1279	-	-	1353	-	-	229	270	831	251	276	781	
Stage 1	-	-	-	-	-	-	513	511	-	676	641	-	
Stage 2	-	-	-	-	-	-	611	625	-	498	507	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1279	-	-	1353	-	-	154	226	831	207	231	781	
Mov Cap-2 Maneuver	-	-	-	-	-	-	154	226	-	207	231	-	
Stage 1	-	-	-	-	-	-	443	441	-	583	622	-	
Stage 2	-	-	-	-	-	-	468	606	-	406	438	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s/v	3.7	1	13.7	30.2	
HCM LOS			В	D	

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1	SBLn2
Capacity (veh/h)	174	831	1279	-	-	1353	-	-	209	781
HCM Lane V/C Ratio	0.069	0.046	0.137	-	-	0.029	-	-	0.668	0.193
HCM Control Delay (s/veh)	27.2	9.5	8.3	-	-	7.7	-	-	51.2	10.7
HCM Lane LOS	D	А	А	-	-	А	-	-	F	В
HCM 95th %tile Q (veh)	0.2	0.1	0.5	-	-	0.1	-	-	4.1	0.7

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\Synchro\2-Jenks@WimberlyRes-Background.syn Kimley-Horn Synchro 12 Report

	٦	-	Ŧ	•	1	4	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		۴.	f,		1	1	
Traffic Volume (vph)	15	208	138	41	22	13	
Future Volume (vph)	15	208	138	41	22	13	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)		0%	0%		0%		
Storage Length (ft)	0			0	100	0	
Storage Lanes	0			0	1	1	
Taper Length (ft)	100				50		
Satd. Flow (prot)	0	1857	1770	0	1641	1468	
Flt Permitted		0.997			0.950		
Satd. Flow (perm)	0	1857	1770	0	1641	1468	
Link Speed (mph)		45	45		25		
Link Distance (ft)		701	647		405		
Travel Time (s)		15.9	8.0		9.2		
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	2%	4%	4%	10%	10%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)		0%	0%		0%		
Shared Lane Traffic (%)							
Lane Group Flow (vph)	0	248	199	0	24	14	
Sign Control		Free	Free		Stop		
Intersection Summary							
Area Type:	Other						
Control Type: Unsignalize	d						
Intersection Capacity Utiliz	zation 33.3%			IC	CU Level	of Service	А
Analysis Period (min) 15							

Intersection

Int Delay, s/veh	1.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ŧ	4		2	1
Traffic Vol, veh/h	15	208	138	41	22	13
Future Vol, veh/h	15	208	138	41	22	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	100	0
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	4	4	10	10
Mvmt Flow	17	231	153	46	24	14

Major/Minor	Major1	Maj	or2	Ν	linor2	
Conflicting Flow All	199	0	-	0	441	176
Stage 1	-	-	-	-	176	-
Stage 2	-	-	-	-	265	-
Critical Hdwy	4.12	-	-	-	6.5	6.3
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	2.218	-	-	-	3.59	3.39
Pot Cap-1 Maneuver	1373	-	-	-	559	847
Stage 1	-	-	-	-	836	-
Stage 2	-	-	-	-	761	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1373	-	-	-	551	847
Mov Cap-2 Maneuver	-	-	-	-	551	-
Stage 1	-	-	-	-	824	-
Stage 2	-	-	-	-	761	-
, , , , , , , , , , , , , , , , , , ,						

Approach	EB	WB	SB
HCM Control Delay, s/v	0.5	0	10.9
HCM LOS			В

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SBLn1	SBLn2
Capacity (veh/h)	1373	-	-	- 551	847
HCM Lane V/C Ratio	0.012	-	-	- 0.044	0.017
HCM Control Delay (s/veh)	7.7	0	-	- 11.8	9.3
HCM Lane LOS	А	А	-	- B	А
HCM 95th %tile Q (veh)	0	-	-	- 0.1	0.1

	4		†	1	1	Ļ	
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	۲		f,			Ł	
Traffic Volume (vph)	42	12	168	40	11	219	
Future Volume (vph)	42	12	168	40	11	219	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Width (ft)	12	12	12	12	12	12	
Grade (%)	0%		0%			0%	
Storage Length (ft)	0	0		0	0		
Storage Lanes	1	0		0	0		
Taper Length (ft)	100				100		
Satd. Flow (prot)	1740	0	1814	0	0	1859	
Flt Permitted	0.962					0.998	
Satd. Flow (perm)	1740	0	1814	0	0	1859	
Link Speed (mph)	25		45			45	
Link Distance (ft)	351		590			647	
Travel Time (s)	8.0		13.4			14.7	
Confl. Peds. (#/hr)							
Confl. Bikes (#/hr)							
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Growth Factor	100%	100%	100%	100%	100%	100%	
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	
Bus Blockages (#/hr)	0	0	0	0	0	0	
Parking (#/hr)							
Mid-Block Traffic (%)	0%		0%			0%	
Shared Lane Traffic (%)							
Lane Group Flow (vph)	60	0	231	0	0	255	
Sign Control	Stop		Free			Free	
Intersection Summary							
Area Type:	Other						
Control Type: Unsignalized							
Intersection Capacity Utilization	ation 30.5%			IC	CU Level	of Service	e A

Analysis Period (min) 15

Intersection							
Int Delay, s/veh	1.5						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	-
Lane Configurations	Y		- î s			- 4	1
Traffic Vol, veh/h	42	12	168	40	11	219)
Future Vol, veh/h	42	12	168	40	11	219)
Conflicting Peds, #/hr	0	0	0	0	0	0)
Sign Control	Stop	Stop	Free	Free	Free	Free	ć
RT Channelized	-	None	-	None	-	None	ڊ
Storage Length	0	-	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	90	90	90	90	90	90)
Heavy Vehicles, %	2	2	2	2	2	2)
Mvmt Flow	47	13	187	44	12	243	,

Major/Minor	Minor1	Ν	/lajor1	Ν	lajor2	
Conflicting Flow All	476	209	0	0	231	0
Stage 1	209	-	-	-	-	-
Stage 2	267	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	548	831	-	-	1337	-
Stage 1	826	-	-	-	-	-
Stage 2	778	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	543	831	-	-	1337	-
Mov Cap-2 Maneuver	543	-	-	-	-	-
Stage 1	826	-	-	-	-	-
Stage 2	770	-	-	-	-	-

Approach WB	NB	SB
HCM Control Delay, s/v 11.8	0	0.4
HCM LOS B		

Vinor Lane/Major Mvmt	NBT	NBRW	/BLn1	SBL	SBT
Capacity (veh/h)	-	-	588	1337	-
HCM Lane V/C Ratio	-	-	0.102	0.009	-
HCM Control Delay (s/veh)	-	-	11.8	7.7	0
HCM Lane LOS	-	-	В	А	А
HCM 95th %tile Q (veh)	-	-	0.3	0	-

Appendix H: Synchro Output: Build-out (2027)

	٨	-	7	4	-	×	1	1	1	1	Ļ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					† †	1		•				1
Traffic Volume (vph)	0	0	0	0	1642	191	0	191	0	0	0	481
Future Volume (vph)	0	0	0	0	1642	191	0	191	0	0	0	481
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		-2%			4%			1%			-1%	
Storage Length (ft)	0		0	0		100	0		0	0		150
Storage Lanes	0		0	0		1	0		0	0		0
Taper Length (ft)	100		Ū	100		•	100		0	100		Ŭ
Satd. Flow (prot)	0	0	0	0	3131	1401	0	1734	0	0	0	1488
Flt Permitted	0	U	Ū	Ū	0101	1101	Ŭ	1701	Ū	Ū	Ū	1100
Satd. Flow (perm)	0	0	0	0	3131	1401	0	1734	0	0	0	1488
Right Turn on Red	U	Ŭ	No	Ū	0.0.	No	No		No	Ū	Ū	No
Satd. Flow (RTOR)												
Link Speed (mph)		55			55			45			45	
Link Distance (ft)		1006			267			188			1026	
Travel Time (s)		12.5			3.3			2.8			15.5	
Confl. Peds. (#/hr)		12.0			0.0			2.0			10.0	
Confl. Bikes (#/hr)												
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	13%	13%	13%	9%	9%	9%	11%	11%	11%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)	•	Ŭ	Ū	Ū	Ű	•	0	Ū	0	Ū	0	Ū
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1785	208	0	208	0	0	0	523
Turn Type					NA	Perm		NA				Perm
Protected Phases					6			3				
Permitted Phases						6						8
Detector Phase					6	6		3				8
Switch Phase												-
Minimum Initial (s)					14.0	14.0		7.0				7.0
Minimum Split (s)					20.2	20.2		12.6				12.6
Total Split (s)					55.0	55.0		35.0				35.0
Total Split (%)					61.1%	61.1%		38.9%				38.9%
Yellow Time (s)					4.8	4.8		3.0				3.0
All-Red Time (s)					1.4	1.4		2.6				2.6
Lost Time Adjust (s)					-1.2	-1.2		-0.6				-0.6
Total Lost Time (s)					5.0	5.0		5.0				5.0
Lead/Lag												
Lead-Lag Optimize?												
Recall Mode					C-Max	C-Max		None				None
Act Effct Green (s)					50.0	50.0		30.0				30.0
Actuated g/C Ratio					0.56	0.56		0.33				0.33
v/c Ratio					1.02	0.26		0.35				1.05
Control Delay (s/veh)					50.0	11.5		21.6				86.9
Queue Delay					0.0	0.0		0.0				0.0
Total Delay (s/veh)					50.0	11.5		21.6				86.9
					0010							50.7

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\Synchro\3-Jenks@WimberlyRes-Build.syn Kimley-Horn

	٦	-	\mathbf{r}	<	+	*	1	t	1	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
LOS					D	В		С				F
Approach Delay (s/veh)					46.0			21.6			86.9	
Approach LOS					D			С			F	
Queue Length 50th (ft)					~575	58		108				~329
Queue Length 95th (ft)					#712	99		m113				#522
nternal Link Dist (ft)		926			187			108			946	
Furn Bay Length (ft)						100						150
Base Capacity (vph)					1739	778		578				490
Starvation Cap Reductn					0	0		0				(
Spillback Cap Reductn					0	0		0				(
Storage Cap Reductn					0	0		0				(
Reduced v/c Ratio					1.03	0.27		0.36				1.0
ntersection Summary												
Area Type: C	Other											
Cycle Length: 90												
Actuated Cycle Length: 90												
Offset: 0 (0%), Referenced to	phase 2:	and 6:WE	3T, Start	of Green								
Vatural Cycle: 110												
Control Type: Actuated-Coor	dinated											
Maximum v/c Ratio: 1.05												
ntersection Signal Delay (s/\					itersectior							
ntersection Capacity Utilizati	ion 135.2%	, D		IC	CU Level o	of Service	Н					
Analysis Period (min) 15												
 Volume exceeds capacity 			ally infini	te.								
Queue shown is maximun		3										
# 95th percentile volume ex			eue may	be longe	r.							
Queue shown is maximun												
m Volume for 95th percenti	ile queue is	s metered	l by upstr	eam sign	al.							
Splits and Phases: 1: Jenk			estbound									

	↑ ø3 35 s
Ø6 (R)	ØB
55 s	35 s

	الر	-	+	×	1	4
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations				WDI		501
Traffic Volume (vph)	0	TT 1839	0	0	ין 271	0
Future Volume (vph)	0	1839	0	0	271	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	1900	1900	1900	1900	1900	1900
Grade (%)	١Z	-1%	0%	12	0%	١Z
Storage Length (ft)	0	-1/0	0 /0	0	0%	0
	0			0	1	0
Storage Lanes	100			U	100	U
Taper Length (ft)	0	3359	0	0	1770	0
Satd. Flow (prot) Flt Permitted	U	3304	0	U	0.950	U
	0	2250	0	0	0.950	0
Satd. Flow (perm)	0	3359	0	0 No		0
Right Turn on Red				No	No	No
Satd. Flow (RTOR)					45	
Link Speed (mph)		55	55		45	
Link Distance (ft)		999	830		63	
Travel Time (s)		12.4	10.3		1.0	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	8%	8%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1999	0	0	295	0
Turn Type		NA			Prot	
Protected Phases		2			7	
Permitted Phases						
Detector Phase		2			7	
Switch Phase						
Minimum Initial (s)		14.0			7.0	
Minimum Split (s)		20.3			13.3	
Total Split (s)		65.0			25.0	
Total Split (%)		72.2%			27.8%	
Yellow Time (s)		5.3			3.0	
All-Red Time (s)		1.0			3.3	
Lost Time Adjust (s)		-1.3			-1.3	
Total Lost Time (s)		-1.5			-1.5	
Lead/Lag		5.0			5.0	
Lead-Lag Optimize?		C-Max			None	
Recall Mode					None	
Act Effct Green (s)		61.5			18.5	
Actuated g/C Ratio		0.68			0.21	
v/c Ratio		0.87			0.81	
Control Delay (s/veh)		17.2			37.5	
Queue Delay		0.0			0.0	
Total Delay (s/veh)		17.2			37.5	

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\Synchro\3-Jenks@WimberlyRes-Build.syn Kimley-Horn

	_ بر _	• •	•	1	4					
Lane Group	EBL E	BT WBT	WBR	SBL	SBR					
LOS		В		D						
Approach Delay (s/veh)	17	7.3		37.6						
Approach LOS		В		D						
Queue Length 50th (ft)	4	33		82						
Queue Length 95th (ft)	5	74		m75						
Internal Link Dist (ft)	9	19 750		1						
Turn Bay Length (ft)										
Base Capacity (vph)	22	96		393						
Starvation Cap Reductn		0		0						
Spillback Cap Reductn		0		0						
Storage Cap Reductn		0		0						
Reduced v/c Ratio	0.	87		0.75						
Intersection Summary										
Area Type:	Other									
Cycle Length: 90										
Actuated Cycle Length: 90										
Offset: 0 (0%), Referenced	to phase 2:EBT	and 6:, Star	t of Green							
Natural Cycle: 75										
Control Type: Actuated-Co	ordinated									
Maximum v/c Ratio: 0.87										
Intersection Signal Delay (Ir	ntersection	I LOS: B					
Intersection Capacity Utiliz	ation 110.0%		10	CU Level c	of Service H					
Analysis Period (min) 15										
m Volume for 95th perce	entile queue is me	tered by ups	stream sigr	nal.						
Splits and Phases: 2: US	S 64 Eastbound &	، U-Turn We	st of Jenks	s Road						



Jenks at Wimberly Residential 3: Wimberly Road & Jenks Road

	_											
	٦	-	\mathbf{r}	-	←	•	1	t	1	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	↑	1	1	f,			ę	*		र्भ	1
Traffic Volume (vph)	164	192	7	14	193	48	9	8	42	101	4	169
Future Volume (vph)	164	192	7	14	193	48	9	8	42	101	4	169
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	9	12	9
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	200		0	250		0	0		100	0		100
Storage Lanes	1		1	1		0	0		1	0		1
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	1770	1863	1583	1770	1807	0	0	1814	1583	0	1777	1425
Flt Permitted	0.950			0.950				0.974			0.954	
Satd. Flow (perm)	1770	1863	1583	1770	1807	0	0	1814	1583	0	1777	1425
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		1338			1087			333			590	
Travel Time (s)		20.3			16.5			5.0			8.9	
Confl. Peds. (#/hr)			7	7			4					4
Confl. Bikes (#/hr)												
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	182	213	8	16	267	0	0	19	47	0	116	188
Sign Control		Free			Free			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												
Intersection Capacity Utiliz	ation 44.7%			IC	CU Level	of Service	A					
Analysis Period (min) 15												

Intersection													
Int Delay, s/veh	8.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	1		2	4			ا	1		t.	1	
Traffic Vol, veh/h	164	192	7	14	193	48	9	8	42	101	4	169	
Future Vol, veh/h	164	192	7	14	193	48	9	8	42	101	4	169	
Conflicting Peds, #/hr	0	0	7	7	0	0	4	0	0	0	0	4	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	200	-	0	250	-	-	-	-	100	-	-	100	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	182	213	8	16	214	53	10	9	47	112	4	188	

Major/Minor	Major1		Ν	/lajor2		1	Minor1		I	Minor2			
Conflicting Flow All	267	0	0	228	0	0	957	883	220	882	865	245	
Stage 1	-	-	-	-	-	-	584	584	-	273	273	-	
Stage 2	-	-	-	-	-	-	373	299	-	609	592	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1297	-	-	1340	-	-	237	285	820	267	292	794	
Stage 1	-	-	-	-	-	-	498	498	-	733	684	-	
Stage 2	-	-	-	-	-	-	648	666	-	482	494	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1297	-	-	1332	-	-	156	241	815	217	247	791	
Mov Cap-2 Maneuver	-	-	-	-	-	-	156	241	-	217	247	-	
Stage 1	-	-	-	-	-	-	426	426	-	630	676	-	
Stage 2	-	-	-	-	-	-	483	658	-	382	422	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s/v	3.7	0.4	14.5	21.8	
HCM LOS			В	С	

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	BLn1	SBLn2
Capacity (veh/h)	187	815	1297	-	-	1332	-	-	218	791
HCM Lane V/C Ratio	0.101	0.057	0.14	-	-	0.012	-	- ().535	0.237
HCM Control Delay (s/veh)	26.4	9.7	8.2	-	-	7.7	-	-	39.1	11
HCM Lane LOS	D	А	А	-	-	А	-	-	Ε	В
HCM 95th %tile Q (veh)	0.3	0.2	0.5	-	-	0	-	-	2.8	0.9

Jenks at Wimberly Residential 4: North Site Drwy./White Oak Pond Road & Wimberly Road

Build AM 05/29/2024

	٦	+	\mathbf{F}	4	←	•	•	1	*	1	Ļ	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			\$			4		7	eî 👘	
Traffic Volume (vph)	5	145	4	6	148	27	5	4	18	36	4	12
Future Volume (vph)	5	145	4	6	148	27	5	4	18	36	4	12
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	0		0	0		0	0		0	100		0
Storage Lanes	0		0	0		0	0		0	1		0
Taper Length (ft)	100			25			100			50		
Satd. Flow (prot)	0	1706	0	0	1679	0	0	1678	0	1671	1578	0
Flt Permitted		0.998			0.998			0.990		0.950		
Satd. Flow (perm)	0	1706	0	0	1679	0	0	1678	0	1671	1578	0
Link Speed (mph)		45			45			25			25	
Link Distance (ft)		701			647			402			405	
Travel Time (s)		10.6			9.8			11.0			11.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	11%	11%	2%	2%	11%	11%	2%	2%	2%	8%	2%	8%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	171	0	0	201	0	0	30	0	40	17	0
Sign Control		Free			Free			Stop			Stop	
Intersection Summary												
J1	Other											
Control Type: Unsignalized												
Intersection Capacity Utiliza	ition 26.6%			IC	CU Level	of Service	A					
Analysis Period (min) 15												

Intersection

Int Delay, s/veh

2.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4		۲	4		
Traffic Vol, veh/h	5	145	4	6	148	27	5	4	18	36	4	12	
Future Vol, veh/h	5	145	4	6	148	27	5	4	18	36	4	12	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	100	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	11	11	2	2	11	11	2	2	2	8	2	8	
Mvmt Flow	6	161	4	7	164	30	6	4	20	40	4	13	

Major/Minor	Major1		Ν	/lajor2			Minor1		[Vinor2			
Conflicting Flow All	194	0	0	165	0	0	377	383	163	380	370	179	
Stage 1	-	-	-	-	-	-	175	175	-	193	193	-	
Stage 2	-	-	-	-	-	-	202	208	-	187	177	-	
Critical Hdwy	4.21	-	-	4.12	-	-	7.12	6.52	6.22	7.18	6.52	6.28	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.18	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.18	5.52	-	
Follow-up Hdwy	2.299	-	-	2.218	-	-	3.518	4.018	3.318	3.572	4.018	3.372	
Pot Cap-1 Maneuver	1327	-	-	1413	-	-	580	550	882	567	560	849	
Stage 1	-	-	-	-	-	-	827	754	-	795	741	-	
Stage 2	-	-	-	-	-	-	800	730	-	801	753	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1327	-	-	1413	-	-	563	544	882	546	554	849	
Mov Cap-2 Maneuver	-	-	-	-	-	-	563	544	-	546	554	-	
Stage 1	-	-	-	-	-	-	823	750	-	791	737	-	
Stage 2	-	-	-	-	-	-	778	726	-	774	749	-	
-													

Approach	EB	WB	NB	SB	
HCM Control Delay, s/v	0.3	0.3	10.1	11.4	
HCM LOS			В	В	

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	737	1327	-	-	1413	-	-	546	749
HCM Lane V/C Ratio	0.041	0.004	-	-	0.005	-	-	0.073	0.024
HCM Control Delay (s/veh)	10.1	7.7	0	-	7.6	0	-	12.1	9.9
HCM Lane LOS	В	А	А	-	А	А	-	В	А
HCM 95th %tile Q (veh)	0.1	0	-	-	0	-	-	0.2	0.1

Jenks at Wimberly Residential <u>5</u>: Wimberly Road & South Site Drwy./Retreat @ Preserve Drwy.

Build AM 05/29/2024

	٦	+	*	4	+	*	•	1	1	1	Ļ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		\$			\$		2	f,			\$	
Traffic Volume (vph)	9	4	60	31	4	11	18	161	46	11	186	4
Future Volume (vph)	9	4	60	31	4	11	18	161	46	11	186	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	0		0	0		0	50		0	0		0
Storage Lanes	0		0	0		0	1		0	0		0
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	0	1644	0	0	1744	0	1770	1801	0	0	1853	0
Flt Permitted		0.994			0.967		0.950				0.997	
Satd. Flow (perm)	0	1644	0	0	1744	0	1770	1801	0	0	1853	0
Link Speed (mph)		25			25			45			45	
Link Distance (ft)		519			351			590			647	
Travel Time (s)		14.2			9.6			8.9			9.8	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	81	0	0	50	0	20	230	0	0	223	0
Sign Control		Stop			Stop			Free			Free	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												
Intersection Capacity Utilization	tion 35.0%			IC	CU Level	of Service	A					
Analysis Period (min) 15												

Intersection

Int Delay, s/veh

2.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		7	f,			4		
Traffic Vol, veh/h	9	4	60	31	4	11	18	161	46	11	186	4	
Future Vol, veh/h	9	4	60	31	4	11	18	161	46	11	186	4	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	50	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	10	4	67	34	4	12	20	179	51	12	207	4	

Major/Minor	Minor2			Vinor1			Major1			Major2			
Conflicting Flow All	486	503	209	514	480	205	211	0	0	230	0	0	
Stage 1	233	233	-	245	245	-	-	-	-	-	-	-	
Stage 2	253	270	-	269	235	-	-	-	-	-	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	492	471	831	471	485	836	1360	-	-	1338	-	-	
Stage 1	770	712	-	759	703	-	-	-	-	-	-	-	
Stage 2	751	686	-	737	710	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	472	459	831	422	473	836	1360	-	-	1338	-	-	
Mov Cap-2 Maneuver	472	459	-	422	473	-	-	-	-	-	-	-	
Stage 1	758	705	-	748	692	-	-	-	-	-	-	-	
Stage 2	724	676	-	667	703	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay,	, s/v 10.5	13.3	0.6	0.4	
HCM LOS	В	В			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1\	VBLn1	SBL	SBT	SBR
Capacity (veh/h)	1360	-	-	730	484	1338	-	-
HCM Lane V/C Ratio	0.015	-	-	0.111	0.106	0.009	-	-
HCM Control Delay (s/veh)	7.7	-	-	10.5	13.3	7.7	0	-
HCM Lane LOS	А	-	-	В	В	А	А	-
HCM 95th %tile Q (veh)	0	-	-	0.4	0.4	0	-	-

	٨	→	~	4	+	•	•	1	*	1	1	~
Lane Group	EBL	EBT	EBR	• WBL	WBT	WBR	NBL	• NBT	NBR	SBL	SBT	SBR
Lane Configurations			LDIX	VVDL	11	1	NDL		NDI	JDL	501	
Traffic Volume (vph)	0	0	0	0	TT 1854	260	0	T 247	0	0	0	6 446
Future Volume (vph)	0	0	0	0	1854	260	0	247	0	0	0	440
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Grade (%)	IZ	-2%	IZ	IZ	4%	١Z	IZ	1%	12	IZ	-1%	12
• •	0	-270	0	0	4 70	100	0	I 70	0	0	-170	150
Storage Length (ft)	0		0	0		100	0		0	-		150
Storage Lanes	0		0	0		I	0		0	0		0
Taper Length (ft)	100	0	0	100	227/	14/5	100	1750	0	100	0	1 - 1 4
Satd. Flow (prot)	0	0	0	0	3276	1465	0	1750	0	0	0	1544
Flt Permitted	0	0	0	0	007(44/5	0	4750	0	0	0	45.44
Satd. Flow (perm)	0	0	0	0	3276	1465	0	1750	0	0	0	1544
Right Turn on Red			No			No	No		No			No
Satd. Flow (RTOR)												
Link Speed (mph)		55			55			45			35	
Link Distance (ft)		1006			267			188			1026	
Travel Time (s)		12.5			3.3			2.8			20.0	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	8%	8%	8%	8%	8%	8%	7%	7%	7%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	1911	268	0	255	0	0	0	460
Turn Type					NA	Perm		NA				Perm
Protected Phases					6			3				
Permitted Phases						6						8
Detector Phase					6	6		3				8
Switch Phase												
Minimum Initial (s)					14.0	14.0		7.0				7.0
Minimum Split (s)					20.2	20.2		12.6				12.6
Total Split (s)					55.0	55.0		35.0				35.0
Total Split (%)					61.1%	61.1%		38.9%				38.9%
Yellow Time (s)					4.8	4.8		3.0				3.0
All-Red Time (s)					1.4	1.4		2.6				2.6
Lost Time Adjust (s)					-2.0	-2.0		-2.0				-2.0
Total Lost Time (s)					4.2	4.2		3.6				3.6
Lead/Lag					7.2	7.2		0.0				0.0
Lead-Lag Optimize?												
Recall Mode					C-Max	C-Max		None				None
Act Effct Green (s)					52.3	52.3		29.9				29.9
Actuated g/C Ratio					0.58	0.58		0.33				0.33
v/c Ratio					1.00	0.30		0.33				0.33
Control Delay (s/veh)					42.3	11.3		23.7				50.5
					42.3	0.0		0.0				50.5 0.0
Queue Delay												
Total Delay (s/veh)					42.3	11.3		23.7				50.5

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\Synchro\3-Jenks@WimberlyRes-Build.syn Kimley-Horn

	٦	-	\mathbf{r}	∢	-	*	1	t	1	1	Ļ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
LOS					D	В		С				D
Approach Delay (s/veh)					38.6			23.8			50.6	
Approach LOS					D			С			D	
Queue Length 50th (ft)					~620	76		137				239
Queue Length 95th (ft)					#757	124		m154				#413
nternal Link Dist (ft)		926			187			108			946	
Turn Bay Length (ft)						100						150
Base Capacity (vph)					1903	850		610				538
Starvation Cap Reductn					0	0		0				(
Spillback Cap Reductn					0	0		0				(
Storage Cap Reductn					0	0		0				(
Reduced v/c Ratio					1.00	0.32		0.42				0.86
ntersection Summary												
Jr ·	Other											
Cycle Length: 90												
Actuated Cycle Length: 90												
Offset: 0 (0%), Referenced to	o phase 2:	and 6:WE	3T, Start	of Green								
Natural Cycle: 90												
Control Type: Actuated-Coor	rdinated											
Maximum v/c Ratio: 1.00												
Intersection Signal Delay (s/					itersectior							
Intersection Capacity Utilizat	tion 136.9%	6		IC	CU Level o	of Service	Н					
Analysis Period (min) 15												
 Volume exceeds capacit 			ally infini	te.								
Queue shown is maximur		3										
# 95th percentile volume e			eue may	be longer	r.							
Queue shown is maximur												
m Volume for 95th percent	tile queue is	s meterec	i by upstr	eam sign	al.							
Splits and Phases: 1: Jenl	ks Road &	US 64 W	estbound									
	no nouu u	000111	ootoounu									

	1 ø3
Ø6 (R)	Ø8
55 s	35 s

	٨	_	+	×.	1	7
	-			-		-
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		1000	-	~)	^
Traffic Volume (vph)	0	1890	0	0	256	0
Future Volume (vph)	0	1890	0	0	256	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)		-1%	0%		0%	-
Storage Length (ft)	0			0	0	0
Storage Lanes	0			0	1	0
Taper Length (ft)	100				100	
Satd. Flow (prot)	0	3391	0	0	1752	0
Flt Permitted					0.950	
Satd. Flow (perm)	0	3391	0	0	1752	0
Right Turn on Red				No	No	No
Satd. Flow (RTOR)						
Link Speed (mph)		55	55		45	
Link Distance (ft)		999	830		63	
Travel Time (s)		12.4	10.3		1.0	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)				1		
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	7%	7%	3%	3%	3%	3%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)	3	<u> </u>	<u> </u>	<u> </u>		5
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)		070	0.70		0.0	
Lane Group Flow (vph)	0	1969	0	0	267	0
Turn Type	0	NA	U	U	Prot	U
Protected Phases		2			7	
Permitted Phases		2			/	
		2			7	
Detector Phase		Z			/	
Switch Phase		14.0			7.0	
Minimum Initial (s)		14.0			7.0	
Minimum Split (s)		20.3			13.3	
Total Split (s)		65.0			25.0	
Total Split (%)		72.2%			27.8%	
Yellow Time (s)		5.3			3.0	
All-Red Time (s)		1.0			3.3	
Lost Time Adjust (s)		-1.3			-1.3	
Total Lost Time (s)		5.0			5.0	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode		C-Max			None	
Act Effct Green (s)		62.2			17.8	
Actuated g/C Ratio		0.69			0.20	
v/c Ratio		0.84			0.77	
Control Delay (s/veh)		15.3			41.8	
Queue Delay		0.0			0.0	
Total Delay (s/veh)		15.3			41.8	
Total Delay (SIVEII)		10.0			41.0	

K:\DUR_LDEV\012095049 Jenks at Wimberly Residential\T4 - Analysis\Synchro\3-Jenks@WimberlyRes-Build.syn Kimley-Horn

	≁ →	+	•	1	4		
Lane Group	EBL EBT	WBT	WBR	SBL	SBR		
LOS	В			D			
Approach Delay (s/veh)	15.3			41.9			
Approach LOS	В			D			
Queue Length 50th (ft)	402			67			
Queue Length 95th (ft)	541			m85			
Internal Link Dist (ft)	919	750		1			
Turn Bay Length (ft)							
Base Capacity (vph)	2344			389			
Starvation Cap Reductn	0			0			
Spillback Cap Reductn	0			0			
Storage Cap Reductn	0			0			
Reduced v/c Ratio	0.84			0.69			
Intersection Summary							
JI	ther						
Cycle Length: 90							
Actuated Cycle Length: 90							
Offset: 0 (0%), Referenced to	phase 2:EBT and	6:, Start of	of Green				
Natural Cycle: 60							
Control Type: Actuated-Coord	inated						
Maximum v/c Ratio: 0.84							
Intersection Signal Delay (s/ve			In	tersection	LOS: B		
Intersection Capacity Utilizatio	on 116.6%		IC	CU Level o	f Service H		
Analysis Period (min) 15							
m Volume for 95th percentile	e queue is metere	d by upsti	ream sign	al.			
Splits and Phases: 2: US 64	4 Eastbound & U-	Turn Wes	t of lenks	Road			
				Rouu		1	
$\rightarrow $ $Ø_2(R)$							

Ø7

Jenks at Wimberly Residential 3: Wimberly Road & Jenks Road

	٨	+	*	4	←	•	•	+	*	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	↑	1	1	ĥ			ŧ	7		ŧ	1
Traffic Volume (vph)	198	190	7	36	211	67	7	4	35	128	13	162
Future Volume (vph)	198	190	7	36	211	67	7	4	35	128	13	162
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	9	12	9
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	200		0	250		0	0		100	0		100
Storage Lanes	1		1	1		0	0		1	0		1
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	1770	1863	1583	1770	1796	0	0	1803	1583	0	1781	1425
Flt Permitted	0.950			0.950				0.968			0.956	
Satd. Flow (perm)	1770	1863	1583	1770	1796	0	0	1803	1583	0	1781	1425
Link Speed (mph)		45			45			25			45	
Link Distance (ft)		1338			1087			333			590	
Travel Time (s)		20.3			16.5			7.6			8.9	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	218	209	8	40	306	0	0	12	38	0	155	178
Sign Control		Free			Free			Stop			Stop	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												
Intersection Capacity Utilization	ation 50.6%			IC	CU Level	of Service	A					
Analysis Period (min) 15												

Intersection													
Int Delay, s/veh	17.1												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	↑	1	2	4			ا	1		t t	1	
Traffic Vol, veh/h	198	190	7	36	211	67	7	4	35	128	13	162	
Future Vol, veh/h	198	190	7	36	211	67	7	4	35	128	13	162	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	200	-	0	250	-	-	-	-	100	-	-	100	
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	218	209	8	40	232	74	8	4	38	141	14	178	

Major/Minor	Major1		M	ajor2		I	Minor1		[Vinor2			
Conflicting Flow All	306	0	0	217	0	0	1090	1031	209	1019	1002	269	
Stage 1	-	-	-	-	-	-	645	645	-	349	349	-	
Stage 2	-	-	-	-	-	-	445	386	-	670	653	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	- 2	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1255	-	- '	1353	-	-	193	233	831	215	242	770	
Stage 1	-	-	-	-	-	-	461	467	-	667	633	-	
Stage 2	-	-	-	-	-	-	592	610	-	446	464	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1255	-	- '	1353	-	-	119	187	831	171	194	770	
Mov Cap-2 Maneuver	-	-	-	-	-	-	119	187	-	171	194	-	
Stage 1	-	-	-	-	-	-	381	386	-	551	614	-	
Stage 2	-	-	-	-	-	-	431	592	-	347	383	-	
Approach	EB			WB			NB			SB			

Approach	EB	WB	NB	SB	
HCM Control Delay, s/v	4.2	0.9	15.3	51	
HCM LOS			С	F	

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR SB	Ln1 S	SBLn2
Capacity (veh/h)	137	831	1255	-	-	1353	-	-	173	770
HCM Lane V/C Ratio	0.088	0.046	0.173	-	-	0.029	-	- 0.	896	0.231
HCM Control Delay (s/veh)	33.8	9.5	8.5	-	-	7.7	-	- 9	96.9	11.1
HCM Lane LOS	D	А	А	-	-	А	-	-	F	В
HCM 95th %tile Q (veh)	0.3	0.1	0.6	-	-	0.1	-	-	6.6	0.9

Jenks at Wimberly Residential 4: North Site Drwy./White Oak Pond Road & Wimberly Road

Build PM 05/29/2024

	٦	-	\mathbf{F}	4	←	*	1	t	۲	1	Ļ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			\$			4		7	ef.	
Traffic Volume (vph)	15	215	4	14	143	41	4	4	9	22	4	13
Future Volume (vph)	15	215	4	14	143	41	4	4	9	22	4	13
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	0		0	0		0	0		0	100		0
Storage Lanes	0		0	0		0	0		0	1		0
Taper Length (ft)	100			25			100			50		
Satd. Flow (prot)	0	1853	0	0	1771	0	0	1704	0	1641	1550	0
Flt Permitted		0.997			0.996			0.989		0.950		
Satd. Flow (perm)	0	1853	0	0	1771	0	0	1704	0	1641	1550	0
Link Speed (mph)		45			45			25			25	
Link Distance (ft)		701			647			402			405	
Travel Time (s)		15.9			8.0			9.1			9.2	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	4%	4%	2%	2%	2%	10%	2%	10%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)								• • •				
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)	Â	0 (0	<u>,</u>		0.04			10	<u>^</u>		10	
Lane Group Flow (vph)	0	260	0	0	221	0	0	18	0	24	18	0
Sign Control		Free			Free			Stop			Stop	
Intersection Summary												
21	Other											
Control Type: Unsignalized												
Intersection Capacity Utiliza	tion 26.9%			IC	CU Level	of Service	Α					
Analysis Period (min) 15												

Intersection

Int Delay, s/veh

1.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4		۲	ţ,		
Traffic Vol, veh/h	15	215	4	14	143	41	4	4	9	22	4	13	
Future Vol, veh/h	15	215	4	14	143	41	4	4	9	22	4	13	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	100	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	4	4	2	2	2	10	2	10	
Mvmt Flow	17	239	4	16	159	46	4	4	10	24	4	14	

Major/Minor	Major1		Ν	Najor2		N	Minor1		Ν	/linor2			
Conflicting Flow All	205	0	0	243	0	0	498	512	241	496	491	182	
Stage 1	-	-	-	-	-	-	275	275	-	214	214	-	
Stage 2	-	-	-	-	-	-	223	237	-	282	277	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.2	6.52	6.3	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.2	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.2	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.59	4.018	3.39	
Pot Cap-1 Maneuver	1366	-	-	1323	-	-	483	465	798	471	478	840	
Stage 1	-	-	-	-	-	-	731	683	-	770	725	-	
Stage 2	-	-	-	-	-	-	780	709	-	708	681	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1366	-	-	1323	-	-	461	452	798	452	465	840	
Mov Cap-2 Maneuver	-	-	-	-	-	-	461	452	-	452	465	-	
Stage 1	-	-	-	-	-	-	721	673	-	759	715	-	
Stage 2	-	-	-	-	-	-	751	699	-	685	671	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s/v	0.5	0.5	11.3	12	
HCM LOS			В	В	

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	590	1366	-	-	1323	-	-	452	706
HCM Lane V/C Ratio	0.032	0.012	-	-	0.012	-	-	0.054	0.027
HCM Control Delay (s/veh)	11.3	7.7	0	-	7.8	0	-	13.4	10.2
HCM Lane LOS	В	А	А	-	А	А	-	В	В
HCM 95th %tile Q (veh)	0.1	0	-	-	0	-	-	0.2	0.1

Jenks at Wimberly Residential <u>5: Wimberly Road & South Site Drwy./Retreat @ Preserve Drwy.</u>

Build PM 05/29/2024

	٨	+	*	4	+	•	•	t	*	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		\$			\$		2	đ			\$	
Traffic Volume (vph)	5	4	30	42	4	12	46	182	40	11	228	7
Future Volume (vph)	5	4	30	42	4	12	46	182	40	11	228	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%			0%			0%	
Storage Length (ft)	0		0	0		0	50		0	0		0
Storage Lanes	0		0	0		0	1		0	0		0
Taper Length (ft)	100			100			100			100		
Satd. Flow (prot)	0	1657	0	0	1749	0	1770	1812	0	0	1852	0
Flt Permitted		0.993			0.965		0.950				0.998	
Satd. Flow (perm)	0	1657	0	0	1749	0	1770	1812	0	0	1852	0
Link Speed (mph)		25			25			45			45	
Link Distance (ft)		519			351			590			647	
Travel Time (s)		11.8			8.0			13.4			14.7	
Confl. Peds. (#/hr)												
Confl. Bikes (#/hr)												
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	43	0	0	64	0	51	246	0	0	273	0
Sign Control		Stop			Stop			Free			Free	
Intersection Summary												
Area Type:	Other											
Control Type: Unsignalized												
Intersection Capacity Utilization	ation 39.5%			IC	CU Level	of Service	Α					
Analysis Period (min) 15												

Intersection

Int Delay, s/veh

2.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		7	f,			4		
Traffic Vol, veh/h	5	4	30	42	4	12	46	182	40	11	228	7	
Future Vol, veh/h	5	4	30	42	4	12	46	182	40	11	228	7	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	50	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	6	4	33	47	4	13	51	202	44	12	253	8	

Major/Minor	Minor2		[Vinor1			Vajor1			N	lajor2			
Conflicting Flow All	616	629	257	626	611	224	261	0	()	246	0	0	
Stage 1	281	281	-	326	326	-	-	-		-	-	-	-	
Stage 2	335	348	-	300	285	-	-	-		-	-	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-		-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-		-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-		-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-		- 2	2.218	-	-	
Pot Cap-1 Maneuver	403	399	782	397	409	815	1303	-		-	1320	-	-	
Stage 1	726	678	-	687	648	-	-	-		-	-	-	-	
Stage 2	679	634	-	709	676	-	-	-		-	-	-	-	
Platoon blocked, %								-		-		-	-	
Mov Cap-1 Maneuver	378	379	782	362	389	815	1303	-		-	1320	-	-	
Mov Cap-2 Maneuver	378	379	-	362	389	-	-	-		-	-	-	-	
Stage 1	698	671	-	660	623	-	-	-		-	-	-	-	
Stage 2	637	609	-	667	669	-	-	-		-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	s/v 11.2	15.4	1.4	0.3	
HCM LOS	В	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1303	-	-	628	411	1320	-	-
HCM Lane V/C Ratio	0.039	-	-	0.069	0.157	0.009	-	-
HCM Control Delay (s/veh)	7.9	-	-	11.2	15.4	7.8	0	-
HCM Lane LOS	А	-	-	В	С	А	А	-
HCM 95th %tile Q (veh)	0.1	-	-	0.2	0.6	0	-	-

Appendix I: SimTraffic Reports

1: Jenks Road & US 64 Westbound Performance by approach

Approach	WB NB	SB	All
Denied Del/Veh (s)	0.0 0.1	0.2	0.0
Total Del/Veh (s)	0.8 16.0	12.4	2.9

2: US 64 Eastbound & U-Turn West of Jenks Road Performance by approach

Approach	EB	SB	All
Denied Del/Veh (s)	0.3	0.0	0.3
Total Del/Veh (s)	1.1	21.9	2.0

3: Wimberly Road & Jenks Road Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	1.3	0.6	0.0	0.1	0.8
Total Del/Veh (s)	0.9	0.7	3.6	4.0	1.7

4: Wimberly Road & White Oak Pond Road Performance by approach

Approach	B WB SB	All
Denied Del/Veh (s)	1 0.0 2.3	0.3
Total Del/Veh (s)	2 0.3 4.1	0.7

Denied Del/Veh (s)	0.4
Total Del/Veh (s)	346.7

1: Jenks Road & US 64 Westbound Performance by approach

2: US 64 Eastbound & U-Turn West of Jenks Road Performance by approach

Approach	EB	SB	All
Denied Del/Veh (s)	0.3	0.0	0.3
Total Del/Veh (s)	1.0	16.6	1.8

3: Wimberly Road & Jenks Road Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	1.2	0.9	0.0	0.0	0.7
Total Del/Veh (s)	0.8	0.9	4.6	5.1	2.5

4: Wimberly Road & White Oak Pond Road Performance by approach

Denied Del/Veh (s)	0.4
otal Del/Veh (s)	664.1

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	1.6	0.4	0.0	0.0	0.8
Total Del/Veh (s)	1.8	1.4	5.3	7.1	3.1

4: Wimberly Road & White Oak Pond Road Performance by approach

Approach	ach	EB	WB	SB	All
Denied Del/Veh (s)	d Del/Veh (s)	0.2	0.0	2.4	0.3
Total Del/Veh (s)		0.2	0.5	4.6	0.8

5: Wimberly Road & Retreat @ Preserve Drwy. Performance by approach

Approach	oach WB NB	SB	All
Denied Del/Veh (s)	ed Del/Veh (s) 0.1 0.0	0.0	0.0
Total Del/Veh (s)	.,	0.8	1.4

Denied Del/Veh (s)	0.9
Total Del/Veh (s)	78.1

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	1.7	0.7	0.0	0.0	0.9
Total Del/Veh (s)	2.0	1.6	6.4	9.5	4.2

4: Wimberly Road & White Oak Pond Road Performance by approach

Approach	EB	WB	SB	All
Denied Del/Veh (s)	0.2	0.0	2.5	03
Total Del/Veh (s)	0.6	1.2	7.2	1.3

5: Wimberly Road & Retreat @ Preserve Drwy. Performance by approach

Approach	WB NB SI	в Діі
Denied Del/Veh (s)	0.1 0.0 0.1	0 0 0
Total Del/Veh (s)	5.5 0.7 0.	9 1.4

Denied Del/Veh (s)	1.0
Total Del/Veh (s)	279.8

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	1.9	0.4	0.0	0.0	0.8
Total Del/Veh (s)	2.2	1.6	6.2	9.9	4.6

4: North Site Drwy./White Oak Pond Road & Wimberly Road Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.1	2.4	0.3
Total Del/Veh (s)	0.6	0.8	4.0	5.0	1.3

5: Wimberly Road & South Site Drwy./Retreat @ Preserve Drwy. Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	4.3	6.6	0.8	1.1	1.9

Denied Del/Veh (s)	0.9
Total Del/Veh (s)	137.6

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	2.0	0.8	0.0	0.0	1.0
Total Del/Veh (s)	2.7	1.8	8.4	15.6	6.4

4: North Site Drwy./White Oak Pond Road & Wimberly Road Performance by approach

Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.1	1.9	0.2
Total Del/Veh (s)	0.5	1.9	7.3	7.2	1.7

5: Wimberly Road & South Site Drwy./Retreat @ Preserve Drwy. Performance by approach

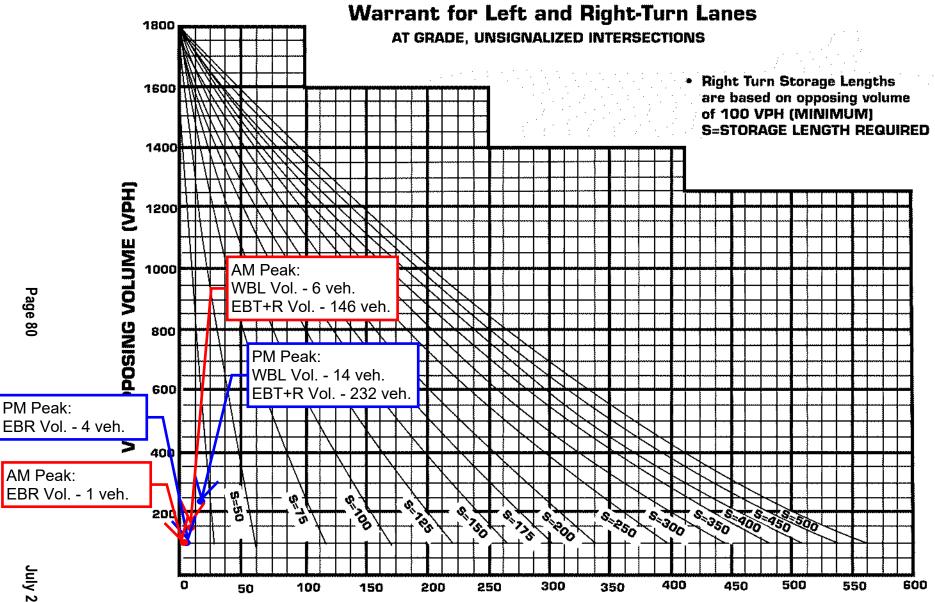
Approach	EB	WB	NB	SB	All
Denied Del/Veh (s)	0.1	0.1	0.0	0.0	0.0
Total Del/Veh (s)	7.1	6.6	1.3	0.8	2.1

Denied Del/Veh (s)	1.1
Total Del/Veh (s)	534.8

Appendix J: Site Driveway Turn Lane Warrants

Turn Lane Warrant Analysis

Wimberly Road at North Site Drwy.

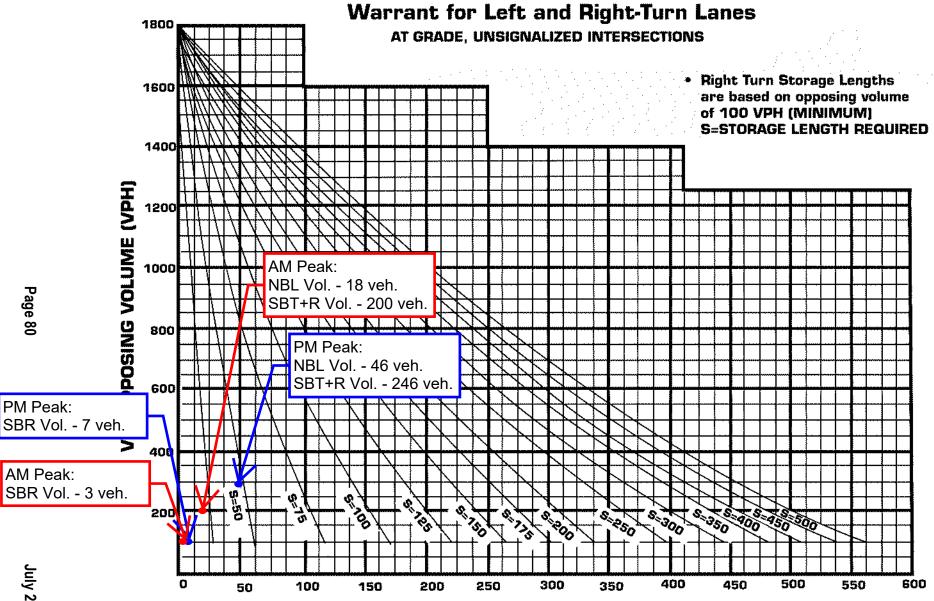


VILEFT TURNING VOLUME (VPH) V RIGHT TURNING VOLUME (VPH) Note: Where adjacent signalization may provide opportunities for gaps in the traffic stream a reduction in the above storage values can be considered on a case by case basis.

July 2003

Turn Lane Warrant Analysis

Wimberly Road at South Site Drwy.

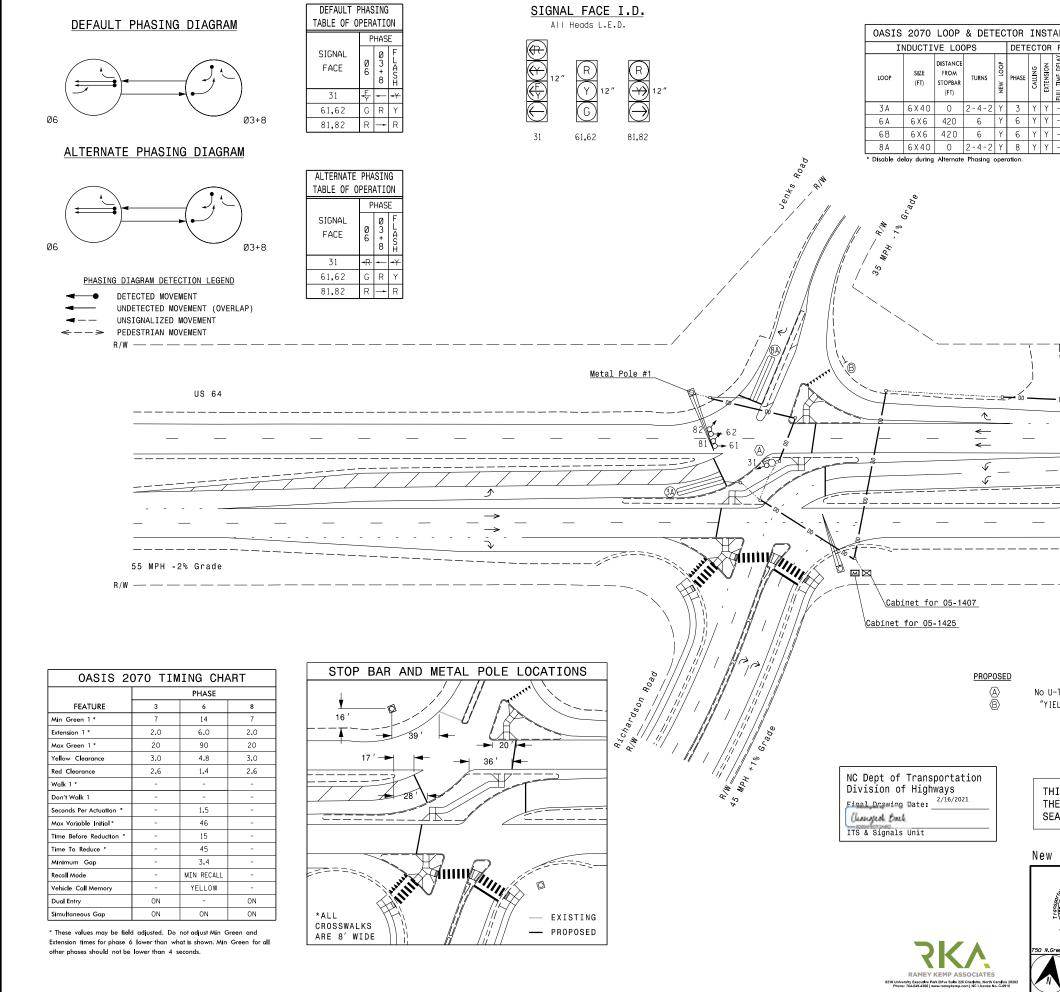


VILEFT TURNING VOLUME (VPH) V RIGHT TURNING VOLUME (VPH) Note: Where adjacent signalization may provide opportunities for gaps in the traffic stream a reduction in the above storage values can be considered on a case by case basis.

July 2003

Appendix K: Signal Plans

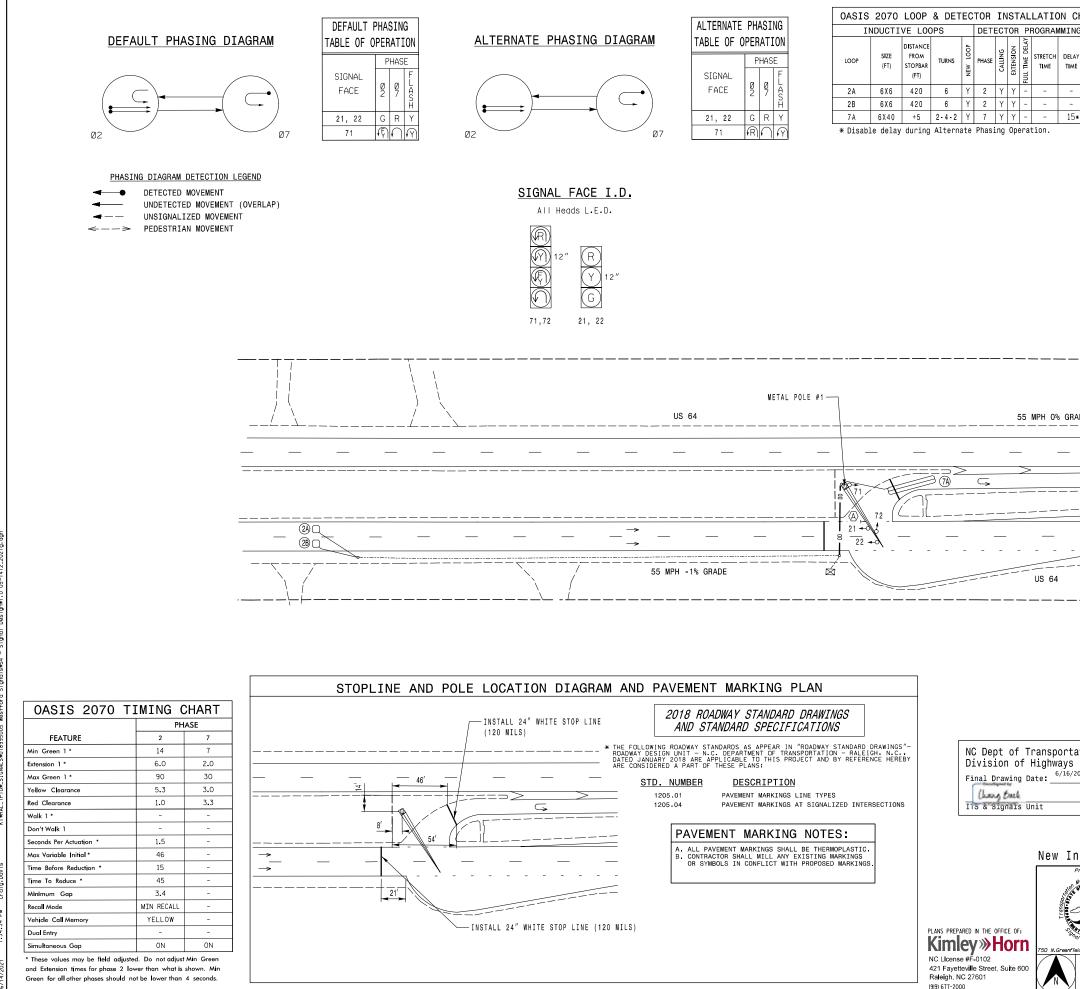
DocuSign Envelope ID: E1AEACAD-E420-4FB7-A2CB-BC8FFB504133



	PROJECT REFERENCE NO. SHEET NO
	36249.4164 Sig-2.0
ALLATION CHART PROGRAMMING STRETCH DELAY TIME DELAY TIME 0 157 - 7 15 - 7 15 - 7 15 - 7 15 - 7	2 Phase Fully Actuated (US 64 & Jenks/Richardson Road Closed Loop System) Signal System: 10534 NOTES 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018, "Standard Specifications for Roads and Structures" dated January 2018, and all applicable sections of the latest version of the generic Project Special Provisions. The PSP can be accessed at the following website: http://connect.ncdot.gov/resources/safety/pages/ITS-Design-Resources.aspx 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer. 3. Set all detector units to presence mode. 4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red. 5. The Division Engineer will determine the hours of use for each phasing plan. 6. Maximum times shown in timing chart are for free-run operation
	only. Coordinated signal system timing values supersede these values. 7. Closed loop system data: Controller Asset #1407
	— — — — — R/W
Ì	
	55 MPH +4% Grade
	US 64
	LEGEND
	PROPOSED EXISTING
	○→ Traffic Signal Head ●→ ●→ Modified Signal Head N/A
SIGNS	→ Sign →
	EXISTING Vedestrian Signal Head
J-Turn Sign (R3-4) ELD″Sian (R1-2)	A O Signal Pole with Guy O B O Signal Pole with Sidewalk Guy O
ELD SIGN (RI-Z)	Inductive Loop Detector
	Controller & Cabinet 🚬 🔀 Master Controller & Cabinet 🏧
	Junction Box
HIS PLAN SUPERSE	
HE PLAN SIGNED A EALED ON 10-29-2	AND Metal Dale with Mastern
	— Directional Drill N/A
Installation	
Wobility ong	US 64 WB
	at Jenks Road
	SEAL SEAL
Gnor Design Section	Division 5 Wake County Apex 32396 PLAN DATE: February 2021 REVIEWED BY: WJ Hamilton
Greenfleld Pkwy,Garner,NC 27529 SCALE 0 40	PREPARED BY: ZM ESPOSITO PRA PROJ. ND.: 19331 (040) REVISIONS REVISIONS

1"=40'

SIGNATURE DATE SIG. INVENTORY NO. 05-1407



DocuSign Envelope ID: C6197B30-C7C9-4F3E-98DB-6B204AF48C46

	-	PROJECT REFERENCE NO.	SHEET NO.
N CHART		36249.4284	SIG. 1.0
MING	2 PHASE FULLY ACTUATED		
DELAY	(US 64 & Jenks/Richardson R	oad	
CV CV AND	Closed Loop System)		
	Signal System: 10534		
Y Y	NOTES		
15* - Y	NOTES 1. Refer to 'Roadway Standard Drawings NCDOT	" dated	
	January 2018, "Standard Specifications for Roa	ds and	
	Structures" dated January 2018, and all applica	ble	
	sections of the latest version of the generic Project Special Provisions. The PSP can be ac	cessed	
	at the following website:		
	https://connect.ncdot.gov/resources/safety/Pag	ges/ITS-Design-Resourc	es.aspx
	Do not program signal for late night flashing operation unless otherwise directed by the Englishing	gineer.	
	3. Set all detector units to presence mode.		
	 Locate new cabinet so as not to obstruct sight of vehicles turning right on rod 	distance	
	of vehicles turning right on red. 5. Maximum times shown in timing chart are for fr	ree-run	
	operation only. Coordinated signal system tim		
	shall supersede these values. 6. The Division Traffic Engineer will determine the	hours	
	 The Division Traffic Engineer will determine the of use for each phasing plan. 	10015	
	7. Closed loop system data:		
	Controller asset: #1412		
GRADE			
	LEGEND	EVICTINO	
	PROPOSED	EXISTING	
	O→ Traffic Signal Head ●→ Modified Signal Head	● ► N/A	
	→ Modiffied Sign	-	
	↓ Pedestrian Signal Hear ↓ With Push Button & Sig	d 📫	
	♦ With Push Button & Sig		
	Inductive Loop Detecto		
	Controller & Cabinet		
]	□ Junction Box 2-in Underground Condu	∎ i+	
ortation	N/A Right of Way		
YS 16/2021	> Directional Arrow	\longrightarrow	
	→ ∞ → Directional Drill	N/A	
	⟨A⟩ No Left Turn Sign (R3-4	2) (A)	
		DOCUMENTING	
Installatio	n	DOCUMENT NOT C FINAL UNLES SIGNATURES CO	SS ALL
Prepared for:	US 64 Eastbound	SEAL	
NOOTH CARD	at	WITH CAR	01111
	U Turn West of Richardson Ro		
		Apex SEAL 044434	
Choi Design Section	PLAN DATE: April 2021 REVIEWED BY: SP Penningt		MALIN
eenfleid Pkwy,Garner,NC 2752 SCALE		P. BA	inin,
0 40	1911 L	How Barnes	6/14/2021
	I	SIGNATURE	DATE

1"=40'

SIG. INVENTORY NO.

05-1412



TOWN OF APEX POST OFFICE BOX 250

APEX, NORTH CAROLINA 27502 PHONE 919-249-3426

PUBLIC NOTIFICATION OF PUBLIC HEARINGS

CONDITIONAL ZONING #24CZ11

Altera Heights PUD

Pursuant to the provisions of North Carolina General Statutes §160D-602 and to the Town of Apex Unified Development Ordinance (UDO) Section 2.2.11, notice is hereby given of public hearings before the Planning Board of the Town of Apex. The purpose of these hearings is to consider the following:

Applicant: Wood Partners Authorized Agents: Matthew Carpenter and Caitlin Shelby, Parker Poe Property Addresses: 8108 Jenks Rd; 1440 & 1508 Wimberly Rd Acreage: 13.55 acres Property Identification Numbers (PINs): 0722673959; 0722682430; 0722681610 Current 2045 Land Use Map Designation: Office Employment/Commercial Services If rezoned as proposed, the 2045 Land Use Map Designation will change to: High Density Residential Existing Zoning of Properties: Rural Residential (RR) Proposed Zoning of Properties: Planned Unit Development-Conditional Zoning (PUD-CZ)

Public Hearing Location: Apex Town Hall Council Chamber, 2nd Floor 73 Hunter Street, Apex, North Carolina

Planning Board Public Hearing Date and Time: May 12, 2025, 4:30 PM

You may attend the meeting in person or view the meeting through the Town's YouTube livestream at: <u>https://www.youtube.com/c/townofapexgov</u>.

If you are unable to attend, you may provide a written statement by email to <u>public.hearing@apexnc.org</u>, or submit it to the clerk of the Planning Board, Jeri Pederson (322 N. Mason Street or USPS mail - P.O. Box 250, Apex, NC 27502), at least two business days prior to the Planning Board vote. You must provide your name and address for the record. The written statements will be delivered to the Planning Board prior to their vote. Please include the Public Hearing name in the subject line.

A separate notice of the Town Council public hearing on this project will be mailed and posted in order to comply with State public notice requirements.

Vicinity Map:



Property owners, tenants, and neighborhood associations within 300 feet of the proposed conditional zoning have been sent this notice via first class mail. All interested parties may submit comments with respect to the application by the means specified above. In addition to the above map, the location of the property may be viewed online at https://maps.raleighnc.gov/imaps. The 2045 Land Use Map may be viewed online at www.apexnc.org/DocumentCenter/View/478. You may call 919-249-3426, Planning Department, with questions or for further information. To view the petition and related documents on-line: https://www.apexnc.org/DocumentCenter/View/478.

Dianne F. Khin, AICP Planning Director



TOWN OF APEX POST OFFICE BOX 250 APEX. NORTH CAROLINA 27502

PHONE 919-249-3426

PUBLIC NOTIFICATION OF PUBLIC HEARINGS

CONDITIONAL ZONING #24CZ11

Altera Heights PUD

De conformidad con las disposiciones de los Estatutos Generales de Carolina del Norte §160D-602 y con la Sección 2.2.11 de la Ordenanza de Desarrollo Unificado (UDO) del Ayuntamiento de Apex, por la presente se notifican las audiencias públicas ante la Junta de Planificación de Apex. El propósito de estas audiencias es considerar lo siguiente:

Solicitante: Wood Partners

Agente autorizado: Matthew Carpenter and Caitlin Shelby, Parker Poe Dirección de las propiedades: 8108 Jenks Road; 1440 & 1508 Wimberly Road Superficie: ± 13.55 acres Números de identificación de las propiedades: 0722673959; 0722682430; 0722681610 Designación actual en el Mapa de Uso Territorial para 2045: Office Employment/Commercial Services Si se aprueba el cambio de zonificación como se propone, el Mapa de Uso Territorial para el 2045 cambiará a: High Density Residential

Ordenamiento territorial existente de las propiedades: Rural Residential (RR)

Ordenamiento territorial propuesto para las propiedades: Planned Unit Development-Conditional Zoning (PUD-CZ)

Lugar de la audiencia pública: Ayuntamiento de Apex Cámara del Consejo, 2º piso 73 Hunter Street, Apex, Carolina del Norte

Fecha y hora de la audiencia pública de la Junta de Planificación: 12 de mayo de 2025 4:30 P.M.

Puede asistir a la reunión de manera presencial o seguir la transmisión en directo por YouTube a través del siguiente enlace: <u>https://www.youtube.com/c/townofapexgov</u>.

Si no puede asistir, puede enviar una declaración escrita por correo electrónico a <u>public.hearing@apexnc.org</u>, o presentarla a la secretaría de la Junta de Planificación, Jeri Pederson (322 N. Mason Street o por correo USPS a P.O. Box 250, Apex, NC 27502), al menos dos días hábiles antes de la votación de la Junta de Planificación. Debe proporcionar su nombre y dirección para que conste en el registro. Las declaraciones escritas se entregarán a la Junta de Planificación. No olvide incluir el nombre de la audiencia pública en el asunto.

De conformidad con los requisitos estatales de notificaciones públicas, se enviará por correo y se publicará por separado una notificación de la audiencia pública del Consejo Municipal sobre este proyecto.

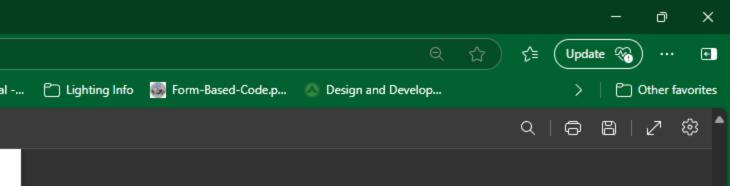
Mapa de las inmediaciones:



Los propietarios, inquilinos y asociaciones de vecinos en un radio de 300 pies del Ordenamiento Territorial Condicional propuesto han recibido esta notificación por correo postal de primera clase. Todas las partes interesadas pueden presentar comentarios sobre la solicitud a través de los medios especificados anteriormente. La ubicación de la propiedad también puede verse aquí: https://maps.raleighnc.gov/imaps. Puede el Mapa de Uso Territorial ver para 2045 aquí: www.apexnc.org/DocumentCenter/View/478. Si tiene preguntas o desea obtener más información, puede comunicarse con el Departamento de Planificación al 919-249-3426. Puede ver la solicitud y otros documentos relacionados aquí: https://www.apexnc.org/DocumentCenter/View/47320

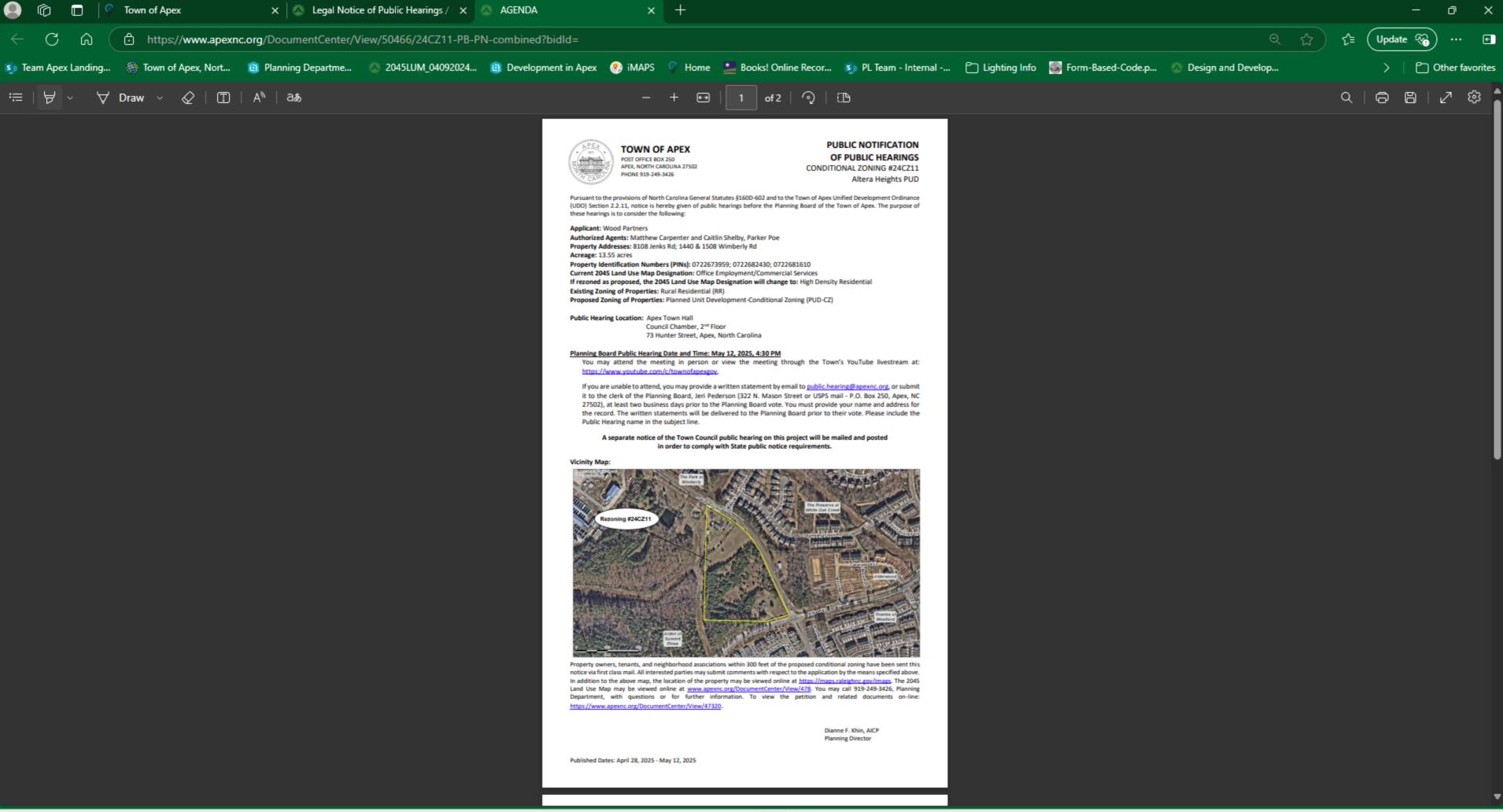
> Dianne F. Khin, AICP Directora de Planificación

🕘 🕅 🗖 🛛 🖓 Town o	of Apex X 🛛 🐼 Legal Notice	e of Public Hearings / 🗆 🗙 🖉	AGENDA	× +			
4 C Q 4	nttps://www.apexnc.org/DocumentCenter/V	iew/50466/24CZ11-PB-PN-0	combined?bidld=				
🗊 Team Apex Landing 🛞 To	own of Apex, Nort 🧯 Planning Departme	🔕 2045LUM_04092024 👔	Development in Apex	🥺 iMAPS 🛛 🖗 Home	볼 Books! Online Recor	SPL Team - Internal	🖰 Ligi
≔ ∀ ∽ ∀ Draw	~ 🖉 🗊 А [№] аљ			- + 🕶	2 of 2 ରୁ ଶ	[]B	
			Published Dat	tes: April 28, 2025 - May 12, 2025			
			A PE NOT OF	POST OFFICE BOX 250 APEX, NORTH CAROLINA 27502 PHONE 919-249-3426	0	BLIC NOTIFICATION F PUBLIC HEARINGS DNAL ZONING #24CZ11 Altera Heights PUD	
			Ordenanza de		Generales de Carolina del Norte §160D-60: iento de Apex, por la presente se notifican diencias es considerar lo siguiente:		
			Agente auto Dirección de Superficie: ± Números de Designación Si se aprueb Density Resi Ordenamier Ordenamier	ba el cambio de zonificación como se p idential nto territorial existente de las propied	140 & 1508 Wimberly Road 22673959; 0722682430; 0722681610 para 2045: Office Employment/Commer propone, el Mapa de Uso Territorial par ades: Rural Residential (RR) iedades: Planned Unit Development-Co	a el 2045 cambiará a: High	
				Cámara del Consejo 73 Hunter Street, A	o, 2º piso pex, Carolina del Norte		
			Puede asis		e Planificación: 12 de mayo de 2025 4:3 o seguir la transmisión en directo por You xgov.		
			presentari Box 250, a proporcion	la a la secretaría de la Junta de Planific Apex, NC 27502), al menos dos días nar su nombre y dirección para que con	ón escrita por correo electrónico a <u>pu</u> ación, Jeri Pederson (322 N. Mason Stre hábiles antes de la votación de la Ju iste en el registro. Las declaraciones escr ncluir el nombre de la audiencia pública	et o por correo USPS a P.O. nta de Planificación. Debe itas se entregarán a la Junta	
					notificaciones públicas, se enviará por Icia pública del Consejo Municipal sobr		
			Los propietar han recibido la solicitud a solicitud a popartament	esta notificación por correo postal de prime a través de los medios especificados ant <u>traleighnc.gov/imaps</u> . Puede ver <u>corg/DocumentCenter/View/478</u> . Si tiene	With a state of the state	n presentar comentarios sobre 1 también puede verse aquí: al para 2045 aquí: in, puede comunicarse con el amentos relacionados aquí:	
69°F Sunny			Q Search		u 🥃 😦 🤅	🖡 🦸 💆 💆	w





へ 🦲 🖫 🕬 🌆 11:33 AM 4/28/2025



Q Search

69°F Sunny **1**

^ 📥 🖫 🕬 🖢

11:33 AM 4/28/2025



POST OFFICE BOX 250 APEX, NORTH CAROLINA 27502 PHONE 919-249-3426

AFFIDAVIT CERTIFYING Public Notification – Written (Mailed) Notice

Section 2.2.11 Town of Apex Unified Development Ordinance

Project Name:	Conditional Zoning #24CZ11 Altera Heights PUD
Project Location:	8108 Jenks Road; 1440 & 1508 Wimberly Road
Applicant or Authorized Agents:	Wood Partners & Matthew Carpenter and Caitlin Shelby, Parker Poe
Firm:	Parker Poe & Adams & Bernstein LLP
Planning Board Public Hearing Date:	May 12, 2025
Project Planner:	Bruce Venable

This is to certify that I, as Planning Director, mailed or caused to have mailed by first class postage for the above mentioned project on April 28, 2025, a notice containing the time and place, location, nature and scope of the application, where additional information may be obtained, and the opportunity for interested parties to be heard, to the property owners and tenants within 300' of the land subject to notification. I further certify that I relied on information from the Wake County Tax Assessor and the Town of Apex Master Address Repository provided to me by Town of Apex GIS Staff as to accuracy of the list and accuracy of mailing addresses of property owners and tenants within 300' of the land subject to notification.

4/28/2025

Danne Skhin

STATE OF NORTH CAROLINA COUNTY OF WAKE

Sworn and subscribed before me,

State and County, this the



 $\frac{Lauren T Ssson}{28^{L}}, a Notary Public for the above , 2025.$

Notary Public

My Commission Expires: 10 / 03 / 2027



POST OFFICE BOX 250 APEX, NORTH CAROLINA 27502 PHONE 919-249-3426

PUBLIC NOTIFICATION OF PUBLIC HEARINGS

CONDITIONAL ZONING #24CZ11

Altera Heights PUD

Pursuant to the provisions of North Carolina General Statutes §160D-602 and to the Town of Apex Unified Development Ordinance (UDO) Section 2.2.11, notice is hereby given of public hearings before the Town Council of the Town of Apex. The purpose of these hearings is to consider the following:

Applicant: Wood Partners Authorized Agents: Matthew Carpenter and Caitlin Shelby, Parker Poe Property Addresses: 8108 Jenks Rd; 1440 & 1508 Wimberly Rd Acreage: 13.55 acres Property Identification Numbers (PINs): 0722673959; 0722682430; 0722681610 Current 2045 Land Use Map Designation: Office Employment/Commercial Services If rezoned as proposed, the 2045 Land Use Map Designation will change to: High Density Residential Existing Zoning of Properties: Rural Residential (RR) Proposed Zoning of Properties: Planned Unit Development-Conditional Zoning (PUD-CZ)

Public Hearing Location: Apex Town Hall Council Chamber, 2nd Floor 73 Hunter Street, Apex, North Carolina

Comments received prior to the Planning Board public hearing will not be provided to the Town Council. Separate comments for the Town Council public hearing must be provided by the deadline specified below.

Town Council Public Hearing Date and Time: May 27, 2025, 6:00 PM

You may attend the meeting in person or view the meeting through the Town's YouTube livestream at: <u>https://www.youtube.com/c/townofapexgov</u>.

If you are unable to attend, you may provide a written statement by email to <u>public.hearing@apexnc.org</u>, or submit it to the Office of the Town Clerk (73 Hunter Street or USPS mail - P.O. Box 250, Apex, NC 27502), at least two business days prior to the Town Council vote. You must provide your name and address for the record. The written statements will be delivered to the Town Council prior to their vote. Please include the Public Hearing name in the subject line.

Vicinity Map:



Property owners, tenants, and neighborhood associations within 300 feet of the proposed conditional zoning have been sent this notice via first class mail. All interested parties may submit comments with respect to the application by the means specified above. In addition to the above map, the location of the property may be viewed online at https://maps.raleighnc.gov/imaps. The 2045 Land Use Map may be viewed online at www.apexnc.org/DocumentCenter/View/478. You may call 919-249-3426, Planning Department, with questions or for further information. To view the petition and related documents on-line: https://www.apexnc.org/DocumentCenter/View/478.

Dianne F. Khin, AICP Planning Director

POST OFFICE BOX 250 APEX, NORTH CAROLINA 27502 PHONE 919-249-3426

NOTIFICACIÓN PÚBLICA DE AUDIENCIAS PÚBLICAS

ORDENAMIENTO TERRITORIAL CONDICIONAL #24CZ11

Altera Heights PUD (Desarrollo de Unidad Planificada)

De conformidad con las disposiciones de los Estatutos Generales de Carolina del Norte §160D-602 y con la Sección 2.2.11 de la Ordenanza de Desarrollo Unificado (UDO) del Ayuntamiento de Apex, por la presente se notifican las audiencias públicas ante la Junta de Planificación de Apex. El propósito de estas audiencias es considerar lo siguiente:

Solicitante: Wood Partners

Agente autorizado: Matthew Carpenter and Caitlin Shelby, Parker Poe Dirección de las propiedades: 8108 Jenks Road; 1440 & 1508 Wimberly Road Superficie: ± 13.55 acres Números de identificación de las propiedades: 0722673959; 0722682430; 0722681610 Designación actual en el Mapa de Uso Territorial para 2045: Office Employment/Commercial Services Si se aprueba el cambio de zonificación como se propone, el Mapa de Uso Territorial para el 2045 cambiará a: High Density Residential Ordenamiento territorial existente de las propiedades: Rural Residential (RR) Ordenamiento territorial propuesto para las propiedades: Planned Unit Development-Conditional Zoning (PUD-CZ)

Lugar de la audiencia pública: Ayuntamiento de Apex Cámara del Consejo, 2º piso

73 Hunter Street, Apex, Carolina del Norte

Fecha y hora de la audiencia pública del Consejo Municipal: 27 de mayo de 2025, 6:00 P.M.

Puede asistir a la reunión de manera presencial o seguir la transmisión en directo por YouTube a través del siguiente enlace: <u>https://www.youtube.com/c/townofapexgov</u>.

Si no puede asistir, puede enviar una declaración escrita por correo electrónico a <u>public.hearing@apexnc.org</u>, o presentarla a la secretaría de la Junta de Planificación, Jeri Pederson (322 N. Mason Street o por correo USPS a P.O. Box 250, Apex, NC 27502), al menos dos días hábiles antes de la votación de la Junta de Planificación. Debe proporcionar su nombre y dirección para que conste en el registro. Las declaraciones escritas se entregarán a la Junta de Planificación. No olvide incluir el nombre de la audiencia pública en el asunto.

De conformidad con los requisitos estatales de notificaciones públicas, se enviará por correo y se publicará por separado una notificación de la audiencia pública del Consejo Municipal sobre este proyecto.

Mapa de las inmediaciones:



Los propietarios, inquilinos y asociaciones de vecinos en un radio de 300 pies del Ordenamiento Territorial Condicional propuesto han recibido esta notificación por correo postal de primera clase. Todas las partes interesadas pueden presentar comentarios sobre la solicitud a través de los medios especificados anteriormente. La ubicación de la propiedad también puede verse aquí: para https://maps.raleighnc.gov/imaps. Puede ver el Mapa de Uso Territorial 2045 aquí: www.apexnc.org/DocumentCenter/View/478. Si tiene preguntas o desea obtener más información, puede comunicarse con el Departamento de Planificación al 919-249-3426. Puede ver la solicitud y otros documentos relacionados aquí: https://www.apexnc.org/DocumentCenter/View/47320.

> Dianne F. Khin, AICP Directora de Planificación





TOWN OF APEX POST OFFICE BOX 250 APEX, NORTH CAROLINA 27502 PHONE 919-249-3425

PUBLIC NOTIFICATION OF PUBLIC HEARINGS CONDITIONAL ZONING #24CZ11 Altera Heights PUD

Pursuant to the provisions of North Carolina General Statutes \$1600-602 and to the Town of Apex Unified Development Ordinance (UDO) Section 2.2.11, notice is hereby given of public hearings before the Town Council of the Town of Apex. The purpose of these hearings is to consider the following:

Applicant: Wood Partners

Authorized Agents: Matthew Carpenter and Caitlin Shelby, Parker Poe Property Addresses: 8108 Jenks Rd; 1440 & 1508 Wimberly Rd Acreage: 13.55 acres Property Identification Numbers (PINs): 0722673959; 0722682430; 0722681610 Current 2045 Land Use Map Designation: Office Employment/Commercial Services If rezoned as proposed, the 2045 Land Use Map Designation will change to: High Density Residential Existing Zoning of Properties: Rural Residential (RR) Proposed Zoning of Properties: Planned Unit Development-Conditional Zoning (PUD-CZ)

Public Hearing Location: Apex Town Hall

Council Chamber, 2nd Floor 73 Hunter Street, Apex, North Carolina

Comments received prior to the Planning Board public hearing will not be provided to the Town Council. Separate comments for the Town Council public hearing must be provided by the deadline specified below.

Town Council Public Hearing Date and Time: May 27, 2025, 6:00 PM

You may attend the meeting in person or view the meeting through the Town's YouTube livestream at: https://www.youtube.com/c/townofagesgov.

If you are unable to attend, you may provide a written statement by email to <u>public.hearing@apexnc.org</u>, or submit it to the Office of the Town Clerk (73 Hunter Street or USPS mail - P.O. Box 250, Apex, NC 27502), at least two business days prior to the Town Council vote. You must provide your name and address for the record. The written statements will be delivered to the Town Council prior to their vote. Please include the Public Hearing name in the subject line.

Vicinity Map:



Property owners, tenants, and neighborhood associations within 300 feet of the proposed conditional zoning have been sent this notice via first class mail. All interested parties may submit comments with respect to the application by the means specified above. In addition to the above map, the location of the property may be viewed online at https://maps.raleighnc.gov/imaps. The 2045 Land Use Map may be viewed online at www.apexnc.org/DocumentCenter/View/478. You may call 919-249-3426, Planning Department, with questions or for further information. To view the petition and related documents on-line: https://www.apexnc.org/DocumentCenter/View/478. You may call 919-249-3426, Planning Department, with questions or for further information. To view the petition and related documents on-line: https://www.apexnc.org/DocumentCenter/View/4732.

> Dianne F. Khin, AICP Planning Director

Published Dates: May 2, 2025 - May 27, 2025





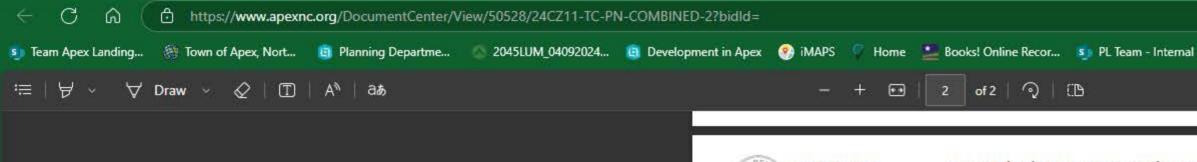


					Θ	ជ	£≞		
	🗂 Lighting Info	퉳 Form-Based-Code.p	O Design and Develop	p		>		ther fav	orites
					Q	Ō	8	۶ 🖌	3
1									

12:13 PM 5/2/2025

-







TOWN OF APEX POST OFFICE BOX 250 APEX, NORTH CAROLINA 27502 PHONE 919-249-3426

NOTIFICACIÓN PÚBLICA DE AUDIENCIAS PÚBLICAS ORDENAMIENTO TERRITORIAL CONDICIONAL #24CZ11 Altera Heights PUD

(Desarrollo de Unidad Planificada)

De conformidad con las disposiciones de los Estatutos Generales de Carolina del Norte §160D-602 y con la Sección 2.2.11 de la Ordenanza de Desarrollo Unificado (UDO) del Ayuntamiento de Apex, por la presente se notifican las audiencias públicas ante la Junta de Planificación de Apex. El propósito de estas audiencias es considerar lo siguiente:

Solicitante: Wood Partners

Agente autorizado: Matthew Carpenter and Caitlin Shelby, Parker Poe

Dirección de las propiedades: 8108 Jenks Road; 1440 & 1508 Wimberly Road

Superficie: ± 13.55 acres

Números de identificación de las propiedades: 0722673959; 0722682430; 0722681610

Designación actual en el Mapa de Uso Territorial para 2045: Office Employment/Commercial Services Si se aprueba el cambio de zonificación como se propone, el Mapa de Uso Territorial para el 2045 cambiará a: High

Density Residential

Ordenamiento territorial existente de las propiedades: Rural Residential (RR)

Ordenamiento territorial propuesto para las propiedades: Planned Unit Development-Conditional Zoning (PUD-CZ)

Lugar de la audiencia pública: Ayuntamiento de Apex

Cámara del Consejo, 2º piso 73 Hunter Street, Apex, Carolina del Norte

Fecha y hora de la audiencia pública del Consejo Municipal: 27 de mayo de 2025, 6:00 P.M.

Puede asistir a la reunión de manera presencial o seguir la transmisión en directo por YouTube a través del siguiente enlace: https://www.youtube.com/c/townofapexgov.

Si no puede asistir, puede enviar una declaración escrita por correo electrónico a <u>public.hearing@aoexnc.org</u>, o presentarla a la secretaría de la Junta de Planificación, Jeri Pederson (322 N. Mason Street o por correo USPS a P.O. Box 250, Apex, NC 27502), al menos dos dias hábiles antes de la votación de la Junta de Planificación. Debe proporcionar su nombre y dirección para que conste en el registro. Las declaraciones escritas se entregarán a la Junta de Planificación antes de la votación. No olvide incluir el nombre de la audiencia pública en el asunto.

De conformidad con los requisitos estatales de notificaciones públicas, se enviará por correo y se publicará por separado una notificación de la audiencia pública del Consejo Municipal sobre este proyecto.

Mapa de las inmediaciones:

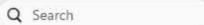


Los propietarios, inquilinos y asociaciones de vecinos en un radio de 300 pies del Ordenamiento Territorial Condicional propuesto han recibido esta notificación por correo postal de primera clase. Todas las partes interesadas pueden presentar comentarios sobre la solicitud a través de los medios especificados anteriormente. La ubicación de la propiedad también puede verse aquí: <u>https://maps.raleighnc.gov/imaps</u>. Puede ver el Mapa de Uso Territorial para 2045 aquí: <u>www.apexnc.org/DocumentCenter/View/478</u>. Si tiene preguntas o desea obtener más información, puede comunicarse con el Departamento de Planificación al 919-249-3426. Puede ver la solicitud y otros documentos relacionados aquí: <u>https://www.apexnc.org/DocumentCenter/View/47320</u>.

Dianne F. Khin, AICP Directora de Planificación

Fechas de publicación: 2 de mayo 2025 - 27 de mayo 2025







				Q	☆) ເ_ື	1944 1	۲
	🗂 Lighting Info	🐻 Form-Based-Code.p	💿 Design and Develop		>	C C)ther f	avorites
				Q	6	8	2	÷
15								





POST OFFICE BOX 250 APEX, NORTH CAROLINA 27502 PHONE 919-249-3426

AFFIDAVIT CERTIFYING Public Notification – Written (Mailed) Notice

Section 2.2.11 Town of Apex Unified Development Ordinance

Project Name:	Conditional Zoning #24CZ11 Altera Heights PUD
Project Location:	8108 Jenks Road; 1440 & 1508 Wimberly Road
Applicant or Authorized Agents:	Wood Partners & Matthew Carpenter and Caitlin Shelby
Firm:	Parker Poe
Town Council Public Hearing Date:	May 27, 2025
Project Planner:	Bruce Venable

This is to certify that I, as Planning Director, mailed or caused to have mailed by first class postage for the above mentioned project on May 2, 2025, a notice containing the time and place, location, nature and scope of the application, where additional information may be obtained, and the opportunity for interested parties to be heard, to the property owners and tenants within 300' of the land subject to notification. I further certify that I relied on information from the Wake County Tax Assessor and the Town of Apex Master Address Repository provided to me by Town of Apex GIS Staff as to accuracy of the list and accuracy of mailing addresses of property owners and tenants within 300' of the land subject to notification.

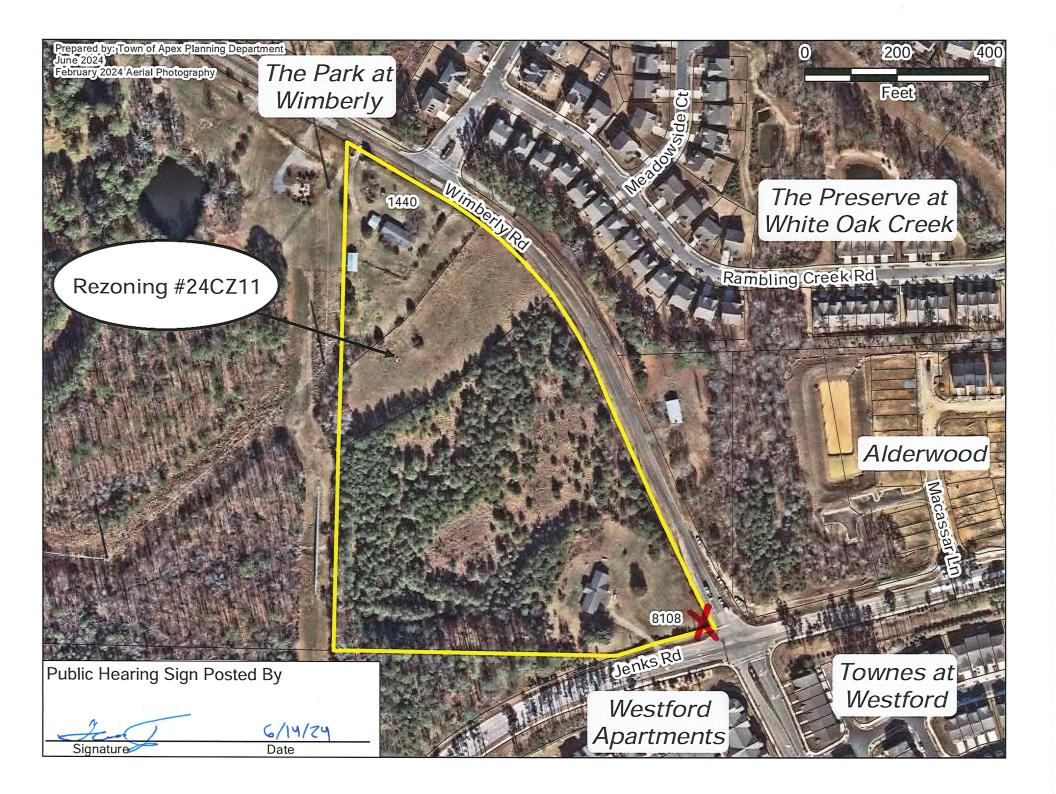
5 5 2025

Stanne J. Khin

Planning Director

STATE OF NORTH CAROLINA COUNTY OF WAKE

Sworn and subscribed before me, State and County, this the <u>5th</u> day of <u>May</u>, 202 <u>5</u>. LAUREN J SISSON Notary Public - North Carolina Wake County My Commission Expires Oct 3, 2027 My Commission Expires: <u>10 03 2027</u>





Office of Student Assignment 5625 Dillard Dr. Cary, NC 27518 studentassignment@wcpss.net tel: (919) 431-7333 fax: (919) 694-7753

July 26, 2024

Dianne Khin, AICP Director, Planning Department Town of Apex Dianne.Khin@apexnc.org

Dear Dianne,

The Wake County Public School System (WCPSS) Office of School Assignment received information about a proposed rezoning/development within the Town of Apex planning area. We are providing this letter to share information about WCPSS's capacity related to the proposal. The following information about the proposed rezoning/development was provided through the Wake County Residential Development Notification database:

- Date of application: June 3, 2024
- Name of development: 24CZ11 Alterra Heights PUD
- Address of rezoning: 8108 Jenks Rd; 1440 & 1508 Wimberly Rd
- Total number of proposed residential units: 300
- Type(s) of residential units proposed: Apartments

Based on the information received at the time of application, the Office of School Assignment is providing the following assessment of possible impacts to the Wake County Public School System:

- □ Schools at all grade levels within the current assignment area for the proposed rezoning/development are anticipated to have sufficient capacity for future students.
- Schools at the following grade levels within the current assignment area for the proposed rezoning/development are anticipated to have insufficient capacity for future students; transportation to schools outside of the current assignment area should be anticipated:
 - □ Elementary

□ Middle

🛛 High

The following mitigation of capacity concerns due to school construction or expansion is anticipated:

- □ Not applicable existing school capacity is anticipated to be sufficient.
- □ School expansion or construction within the next five years is not anticipated to address concerns.
- School expansion or construction within the next five years may address concerns at these grade levels:

□ Elementary

□ Middle

🛛 High

Thank you for sharing this information with the Town of Apex Planning Board and Town Council as they consider the proposed rezoning/development.

Sincerely 8.30.24

Susan W. Pullium, MSA Senior Director