



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

September 24, 2024

Mr. Baohong Wan, PhD, PE
Gannett Fleming
One Glenwood Avenue, Suite 900
Raleigh, NC 27603

SUBJECT: NCDOT Review of TIA to Assess Required Improvements Associated with Summit Church Chatham County on US 15-501

Mr. Wan,

The NC Department of Transportation has reviewed the Traffic Impact Analysis (TIA) dated August 16, 2024, as submitted to this office for the Summit Church Chatham County on US 15-501. The TIA studied the development site driveways on US 15-501 at each of the following intersections: SR 1721 (Lystra Road), SR 1606 (Poplar Street)/Hidden Oaks Drive, Sr 1719 (Vickers Road)/Briar Chapel Parkway, Sr 1717 (Jack Bennet Road) and at both proposed access drives. Based on comments from the District Engineer's office, Division Traffic Engineer's office, and the Congestion Management unit, the following stipulations and recommendations are offered:

1. Please see attached drawing for proposed improvements/incorporation of TIA recommendations for the subject site.
2. Construct right turn lane with 150' storage and appropriate tapers at Site Access 1 on US 15-501 NB.
3. Construct right turn lane with 100' storage and appropriate tapers at Site Access 2 on US 15-501 NB.
4. Maintain 12' thru and turn lane widths throughout project limits.

Provide additional public right of way to NCDOT to measure a minimum of 15ft from proposed edge of pavement. Other easements may be required as determined through the driveway permitting process.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
DIVISION 8, DISTRICT 1
300 DOT DRIVE
ASHEBORO, NC 27205

Telephone: (336) 318-4000
Fax: (336) 318.4010
Customer Service: 1-877-368-4968

Location:
300 DOT DRIVE
ASHEBORO, NC 27205

Website: www.ncdot.gov

All work associated with the above-mentioned improvements shall be carried out through an approved Encroachment Agreement issued by the NCDOT Division 8 Engineer. In addition, any traffic signal timing modifications required (determined during driveway permitting process) will need to be coordinated through the Division Traffic Engineer's Office (Attn: David Willett, 150 DOT Drive, Carthage, NC, 28327) before work may commence.

If you have any further questions regarding this matter, please do not hesitate to call Tyler Kimes, Assistant District Supervisor, at (336) 318-4004

Sincerely,

Signed by:

746DFD671EFA474...
R. J. Monroe
District Supervisor

Attachment

cc: Mr. Reuben Blakley, P.E., Division Engineer
Mr. David Willett, Division Traffic Engineer
Mr. Nicholas Lineberger, P.E., Congestion Management Regional Engineer

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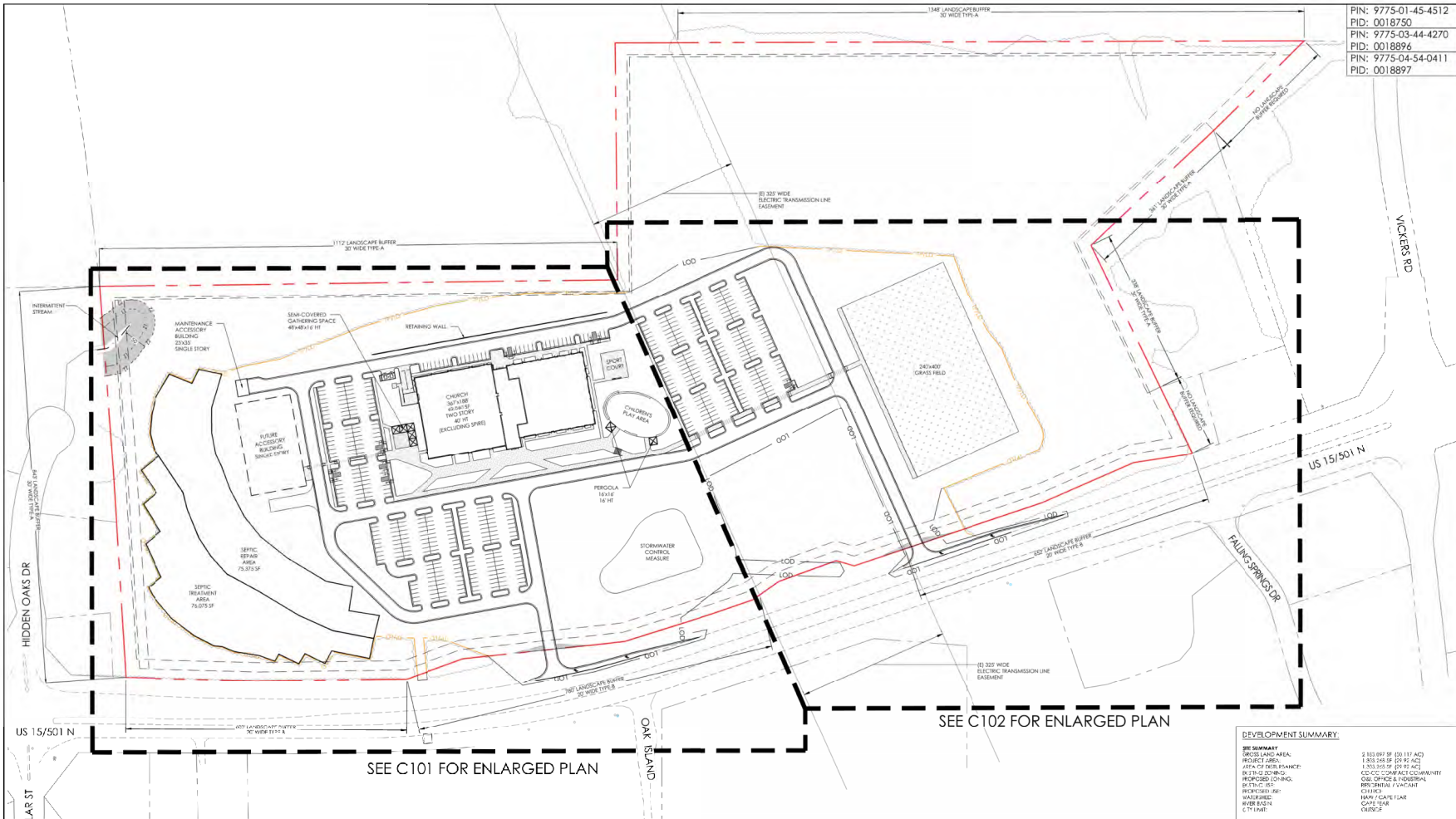
Qunity
 CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE
 14 CONSTITUTION PLACE, SUITE 201
 DURHAM, NORTH CAROLINA 27703
 P: 919.493.6000
 www.qunity.com
 NORTH CAROLINA BOARD OF LANDSCAPE ARCHITECTURE AND SURVEYORS LICENSE NO. C-200

SUMMIT CHURCH CHATHAM COUNTY
 9780 US 15-501 N
 CHAPEL HILL, NC 27517

SITE PLAN OVERALL

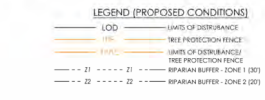


PRELIMINARY
DO NOT USE FOR
CONSTRUCTION



GENERAL SITE NOTES

- BUILDING AND ROADWAY TIME OUTS TO BE PERFORMED BY A REGISTERED LAND SURVEYOR, SURVEY-REGISTERED ENGINEER OF ANY DISCREPANCY.
- ALL PARKING, LOT LAYOUTS ARE TO BE CHECKED FOR CURB AND EACH OF SIDEWALK, 1 IN 2.0 PERCENT SLOPE FOR CURBS AND 1 IN 4.0 PERCENT SLOPE FOR SIDEWALKS.
- ALL ON-SITE UTILITIES (CURB & GUTTER) SHALL BE OR UNLESS OTHERWISE NOTED, PERFORMED BY THE DESIGN PROFESSIONAL OR LICENSEE. ANY DISCREPANCY NOTED TO THE BUILDING INSPECTORS SHALL BE CORRECTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE DESIGN PROFESSIONAL OR LICENSEE SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UTILITIES AND THE LOCATION OF ALL UTILITIES SHALL BE NOTED TO THE CONSTRUCTION.
- THE ESTABLISHMENT OF FIRE LANE IN ACCORDANCE WITH SECTION 2023.5 OF THE 2024 NC FIRE CODE MAY BE REQUIRED WHERE IT OCCURS AS PART OF THE OCCUPANCY OF THE DEVELOPMENT THAT PARKING WITHIN ROADWAYS CREATES DIFFICULTIES FOR THE PASSAGE OF FIRE FIGHTING.
- CONTRACTOR TO VERIFY THE WORKING PLACE RELATED TO THE CHANGES BY THE TYPICALS TO BE FULLY COMPLIANT WITH THE NORTH CAROLINA ACCIDENT PREVENTION ACTS (AHS 17-1-2009) AND CHAPTER 11 OF THE NCDCI (UNLESS AND EXCEPT IN CASES WHERE AN APPROVED DESIGNER FROM A LICENSED ENGINEER SURVEYOR OR A P.E. ENGINEER ARCHITECT VERIFIES THAT THE CONDITIONS EXIST WHERE THE TOPOGRAPHY OF THE SITE CHANGE AND THEY ALTERNATE METHODS OF COMPLIANCE ARE POSSIBLE. AN ANALYSIS AND CERTIFICATION OF THE SITE, PERFORMED BY THE DESIGN PROFESSIONAL OR LICENSEE, MUST BE SUBMITTED TO THE BUILDING INSPECTORS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE DESIGN PROFESSIONAL OR LICENSEE SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UTILITIES AND THE LOCATION OF ALL UTILITIES SHALL BE NOTED TO THE CONSTRUCTION.
- LANDSCAPE BUFFER: ON COMPACTED SOIL, REGENERATION #8 AS FOLLOWS:
 - REPAIR OR REPLACE ANY DAMAGE TO THE BUFFER FROM THE SUBJECT AREA.
 - TILL THE AREA TO A DEPTH OF 12" BELOW THE TOP OF COMPACTED SUBGRADE.
 - SURFACE BARS AND TYPES OF SOIL AMENDMENTS SHOULD BE DETERMINED THROUGH SOIL TESTS, LIMITATIONS AND FERTILIZER SHOULD BE APPLIED TO THE BUFFER. PREPARE AND MAINTAIN THE BUFFER WITHIN 14" TO 18" HIGH TO 18" TO 24" WIDE.



DEVELOPMENT SUMMARY:

ITEM	DESCRIPTION	AMOUNT
SITE SUMMARY	GROSS LAND AREA:	2,383,997 SF (54,617 AC)
	PROJECT AREA:	1,933,168 SF (44,364 AC)
	AREA OF PAVED PLACEMENT:	1,500,352 SF (34,538 AC)
	EXISTING CONDITION:	EXISTING CONTRACT DEVELOPMENT
	PROPOSED CONDITION:	CHURCH & FOUNDATION
	DEVELOPMENT:	RECREATIONAL FACILITY
	WORKSHEET:	CHURCH
	WATERWAY:	MAIN CANAL/LEAK
	RIVER/ESTUARY:	CAPE Fear
	CITY/STATE:	CHURCH
USE SUMMARY	EXISTING BUILDING FOOTPRINT:	47,500 SF (CHURCH SPHERE/JUNE 2004)
	PROPOSED BUILDING AREA:	47,500 SF
	REPAIR BUFFER:	22'
PAVING SUMMARY	REQUIRED PAVING - CHURCH:	1,500,352 SF = 300 SPACES
	REQUIRED ADA PARKING:	4 SPACES
	RECREATIONAL/OTHER PARKING:	1,500,352 SF = 2 SPACES
	REPAIR BUFFER - CHURCH:	511,934 SF = 2 SPACES
	REPAIR BUFFER - OTHER:	322,934 SF
WATERWAY SUMMARY	EXISTING WATERWAY IMPROVEMENT AREA:	573,945 SF (13,024 AC) (24.76)
	PROPOSED WATERWAY IMPROVEMENT AREA:	1,022,518 SF (23,366 AC)
	TOTAL PROPOSED WATERWAY IMPROVEMENT AREA:	1,596,463 SF (36,390 AC) (21.58)

SHEET NO. 2339
DATE: 05/07/2024
PROJECT NO.: 2339
SHEET NO.: C100
CONDITIONAL REVISION

PLANS PREPARED BY:
GANNETT FLEMING
 Excellence Delivered As Promised
 22 S. Pack Square
 Suite 800
 Asheville, NC 28801
 (828) 209-7104
 NC Lic. No. F-0270









CHATHAM COUNTY SUMMIT CHURCH TIA

FIGURE 2

SITE PLAN

SCALE: NONE

**Summit Church Chatham County
Chapel Hill, Chatham County
SC-2024-160**

-  Existing Laneage
-  Recommended Laneage
-  Laneage Built By Others
-  NCDOT Recommendation
-  Existing Signal
-  Signal Proposed By Others
-  Developer Proposed Signal
-  Monitor for Signal
- XXX Storage
- XXX NCDOT Recommended Storage
- <XXX> Distance Between Intersections
- IPS Internal Protected Stem
- All Distances in Feet
- Drawing Not to Scale

