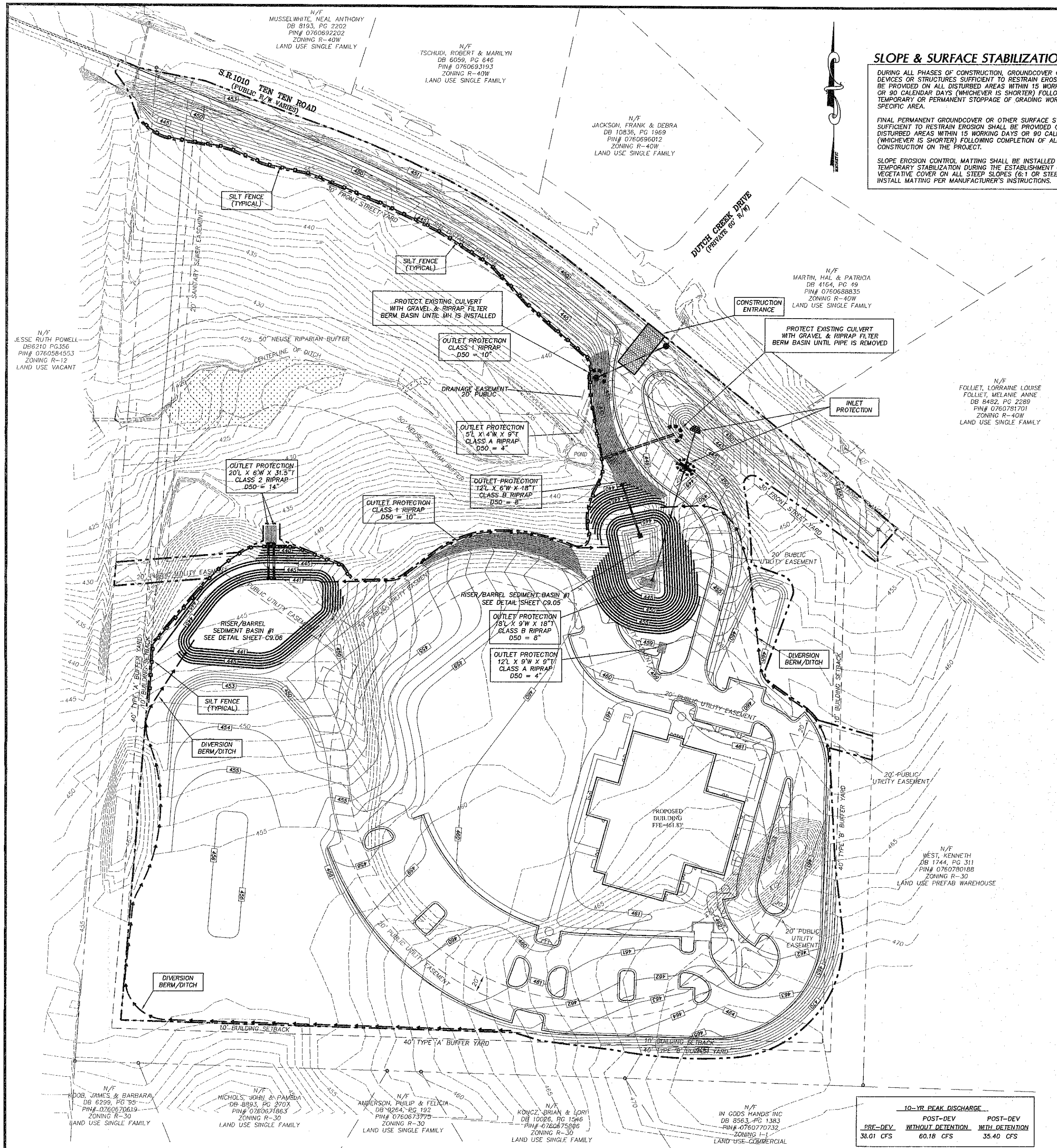


SLOPE & SURFACE STABILIZATION

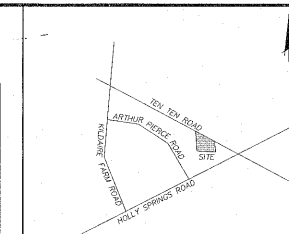
DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER OR OTHER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING A TEMPORARY OR PERMANENT STOPPAGE OF GRADING WORK IN A SPECIFIC AREA.

FINAL PERMANENT GROUNDCOVER OR OTHER SURFACE STABILIZATION SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF ALL CONSTRUCTION ON THE PROJECT.

SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
2. PERFORM REGULAR SAMPLING AND QUALITATIVE OBSERVATIONS OF STORMWATER AT ALL DISCHARGE POINTS. DOCUMENT ALL SAMPLING AND OBSERVATIONS.
3. REMOVE SEDIMENT FROM BEHIND SILT FENCE WHEN DEPTH REACHES 6-INCHES AT THE FENCE. REPAIR SILT FENCE AS NECESSARY TO MAINTAIN A BARRIER.
4. ALL SEEDED AREAS SHALL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE GROWTH.



VICINITY MAP
SCALE: 1" = 1000'

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE.
2. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
3. TOTAL DISTURBED AREA: 13.0 ACRES.
4. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL C9.02.
5. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
6. ALL STREETS IN FRONT OF PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
7. ALL STORM DRAIN FRAMES, GRATES, AND HOODS SHALL BE STAMPED WITH "DRAINS TO RIVER" IN ACCORDANCE WITH TOWN OF CARY STANDARDS.
8. THE PROJECT SITE IS WITHIN THE NEUSE RIVER WATERSHED.
9. A GRADING PERMIT WILL NOT BE ISSUED UNTIL THE TOWN OF CARY HAS RECEIVED NOTIFICATION FROM THE ECOSYSTEM ENHANCEMENT PROGRAM THAT A RECEIPT HAS BEEN ISSUED TO THE DEVELOPER AND THE LOCAL GOVERNMENT STATING THE NITROGEN BUY DOWN HAS BEEN COMPLETED.
10. THE PROJECT WILL MEET ALL OF THE REQUIREMENTS RELATIVE TO BEST MANAGEMENT PRACTICES AND ENGINEERED STORMWATER CONTROL STRUCTURES AS OUTLINED IN THE TOWN OF CARY UNIFIED DEVELOPMENT ORDINANCE (CHAPTER 4, PART 4.6, LDO).
11. THE TREE PROTECTION FENCING ON THIS PROJECT WILL BE INSTALLED AND INSPECTED BEFORE THE GRADING PERMIT IS ISSUED.
12. IF THERE WILL BE A TRASH COMPACTOR ON THE SITE A CONNECTION TO SANITARY SEWER AND A COVERED DUMPSTER SITE WILL BE REQUIRED.

LEGEND

- TEMPORARY CONSTRUCTION ENTRANCE SEE SHEET C9.02
- RISER/BARREL SEDIMENT BASIN SEE SHEET 9.05 AND C9.06
- TEMPORARY INLET PROTECTION SEE SHEET C9.02
- TEMPORARY GRAVEL AND RIPRAP FILTER BERM BASIN, SEE SHEET C9.02
- TEMPORARY PIPE INLET PROTECTION (PLYWOOD & STONE), SEE SHEET C9.02
- PERMANENT OUTLET PROTECTION SEE SHEET C9.02
- TEMPORARY SILT FENCE SEE SHEET C9.02
- TEMPORARY DIVERSION DITCH/BERM SEE SHEET C9.02
- DISTURBED LIMIT LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR

GENERAL NOTES

1. ALL SPOT ELEVATIONS INDICATED AT C&G ARE TOP OF CURB, UNLESS OTHERWISE INDICATED.
2. ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADES.
3. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY.
4. TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF BUFFERS AND STREETSCAPES, THE CONTRACTOR SHALL CUT 2-FT DEEP TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR ROOTS.
5. TREE PROTECTION FENCING SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR CERTIFICATE OF OCCUPANCY.
6. SITE IS NOT WITHIN 100 YEAR FLOOD PLAIN.
7. ESTABLISHMENT OF PERMANENT GROUND COVER WILL BE ESTABLISHED IN 15 WORKING DAYS OR 90 CALENDAR DAYS, WHICH EVER IS SHORTER.
8. ALL STROM DRAIN FRAMES, GRATES, AND HOODS SHALL BE STAMPED WITH "DRAINS TO RIVER" IN ACCORDANCE WITH TOWN OF CARY STANDARDS.

CONSTRUCTION SEQUENCE

1. OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS. KEEP A COPY OF THE APPROVED PLAN ON-SITE AND POST APPROVAL PLACARD.
2. PRIOR TO CONSTRUCTION, FLAG CONSTRUCTION LIMITS AND INSTALL TREE PROTECTION FENCE. CALL FOR TOWN OF CARY INSPECTION.
3. NOTIFY EROSION INSPECTOR WITH THE TOWN OF CARY, AND OWNER REPRESENTATIVE AND CONDUCT PRE-CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CLEARING OR ANY OTHER CONSTRUCTION.
4. INSTALL GRAVEL THE CONSTRUCTION ENTRANCE, TEMPORARY SILT FENCE, INLET PROTECTION, REINFORCED SILT FENCE OUTLETS AS SHOWN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
5. INSTALL APPROXIMATELY 8-FEET OF THE 12" RCP THAT TIES INTO THE EXISTING CURB INLET. ONCE COMPLETE, GRADE A DEPRESSION AND INSTALL A GRAVEL AND RIPRAP FILTER BERM BASIN AS SHOWN. INSTALL DIVERSION DITCHES TO DIRECT RUNOFF TO THE FILTER BASIN. THE FILTER BASIN WILL NEED TO STAY IN PLACE UNTIL THE DETENTION SYSTEM IS INSTALLED AND FUNCTIONAL. AT THIS TIME THE FILTER BASIN CAN BE REMOVED AND INLET PROTECTION INSTALLED AROUND THE DETENTION DROP INLET.
6. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED.
7. BEGIN ROUGH GRADING. MAINTAIN DEVICES AS NEEDED.
8. INSPECT ALL MEASURES AND DEVICES WEEKLY AND AFTER ALL RAINFALL EVENTS. MAKE PROMPT REPAIRS AS NEEDED.
9. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE WITH VEGETATION, PAVING, TEMPORARY DITCH AND SLOPE LINING, ETC. SEE SLOPE AND SURFACE STABILIZATION NOTES LISTED ABOVE.
10. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED; CALL FOR INSPECTION BY CARY INSPECTOR.
11. WHEN SITE IS APPROVED, REMOVE ALL REMAINING EROSION MEASURES AND STABILIZE THESE AREAS. APPLY SEED AND INSTALL TEMPORARY MATTING OVER ANY REMAINING DISTURBED AREAS ON SITE.
12. ONCE REMAINING VEGETATION IS ESTABLISHED, CALL FOR A FINAL INSPECTION BY CARY INSPECTOR TO OBTAIN A CERTIFICATE OF COMPLETION.

10-YR PEAK DISCHARGE

PRE-DEV	POST-DEV WITHOUT DETENTION	POST-DEV WITH DETENTION
38.01 CFS	60.18 CFS	35.40 CFS

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

07-SP-015
APPROVED
TOWN OF CARY
Approved by DRC Date 04-23-07
Planning JGB Date 05-18-07
Engineering TS Date 5-21-07

CPS
Chandler Palmer Speight engineers, p.a.
7621 Purfoy Road, Suite 201
Fuquay-Varina, NC 27526
Tel:919-552-4845

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025493 BRIAN D. SPEIGHT 5.15.07

REVISIONS

DATE	COMMENTS
03-29-07	TOWN OF CARY REVIEW COMMENTS
04-30-07	TOWN OF CARY REVIEW COMMENTS
05-15-07	TOWN OF CARY REVIEW COMMENTS

CONSTRUCTION DOCUMENT

CARY ALLIANCE CHURCH
4108 TEN TEN ROAD
CARY, NORTH CAROLINA

REVIEWED BY:	JFC
DESIGNED BY:	CPS
DRAWN BY:	CPS
DATE:	2/8/07
PROJECT NUMBER:	06-016

SEDIMENTATION AND EROSION CONTROL PLAN

C5.01

SHEET 8 OF 27

FEBRUARY 2007