

BRIAR CHAPEL

PRELIMINARY PLAT PHASE 4 - KIMBOLTON PLACE, LOTS 465 & 466

U.S. HWY. 15-501 & MANN'S CHAPEL ROAD
BALDWIN & WILLIAMS TOWNSHIPS
CHATHAM COUNTY, NORTH CAROLINA
PROJECT NUMBER: NEW-09004

DATE: MAY 7, 2010

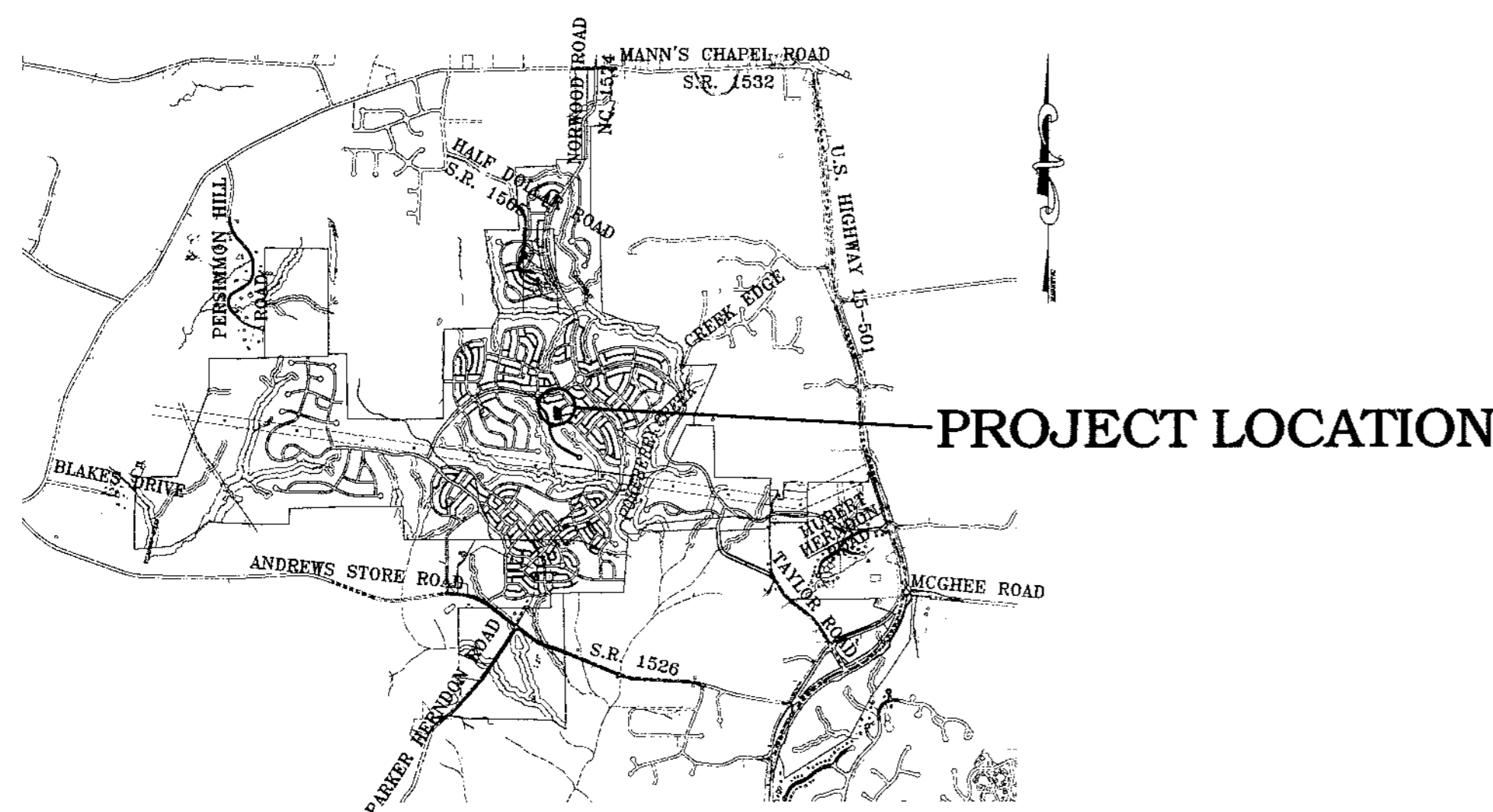
SHEET INDEX

C-1	PROJECT LOCATION MAP
C-2	EXISTING CONDITIONS
C-3	SITE PLAN
C-4	STAGE 1 EROSION CONTROL PLAN
C-5	STAGE 2 EROSION CONTROL PLAN
C-6	UTILITY PLAN

BRIAR CHAPEL™

by
Newland COMMUNITIES

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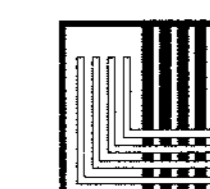
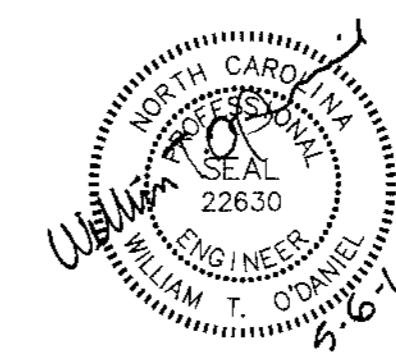


VICINITY MAP
NTS



CALL 48 HOURS BEFORE YOU DIG
1-800-632-4949
NORTH CAROLINA ONE-CALL CENTER

CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



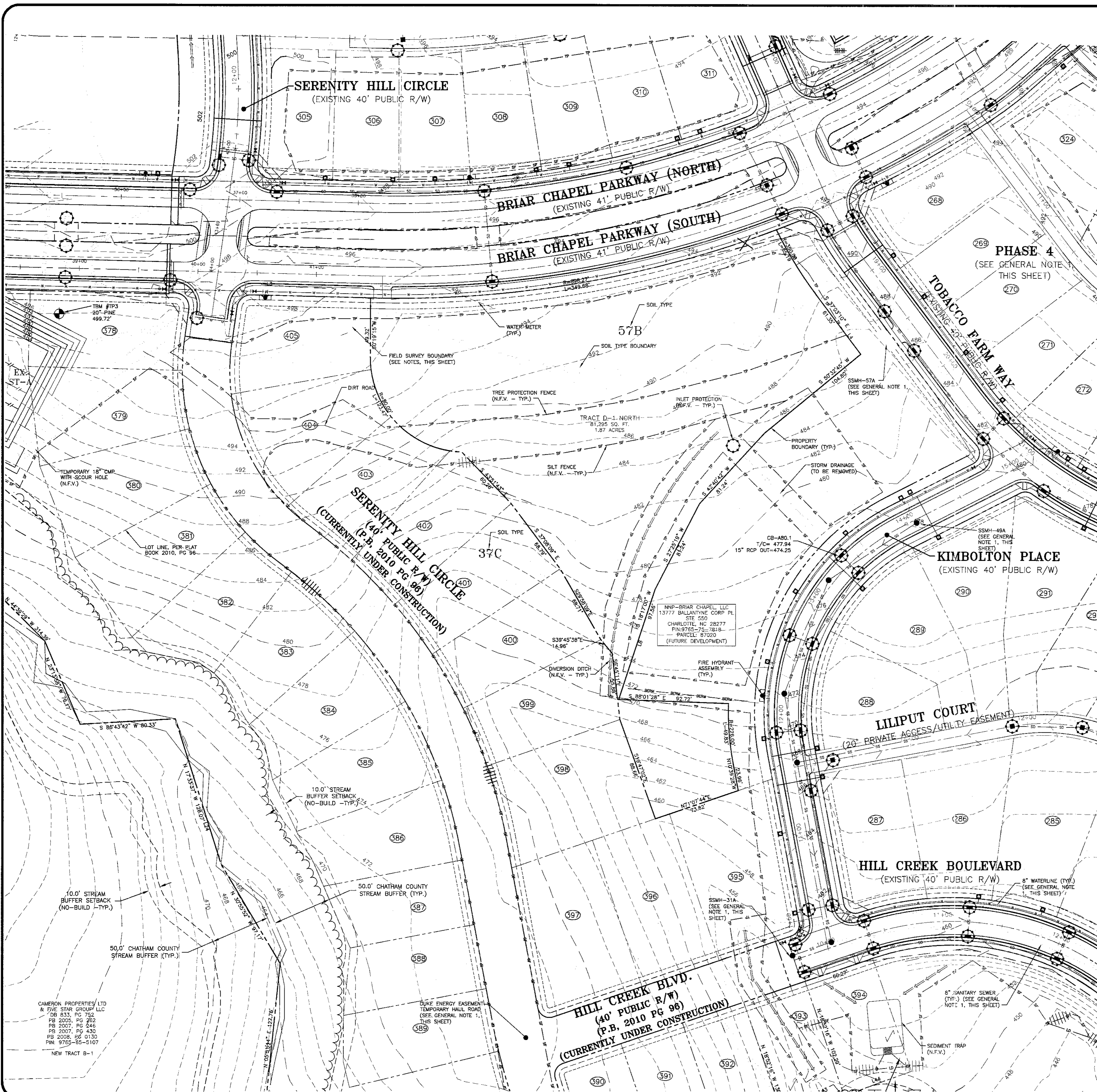
THE JOHN R. McADAMS
COMPANY, INC.

ENGINEERS • PLANNERS • SURVEYORS • ENVIRONMENTAL

RESEARCH TRIANGLE PARK • CHARLOTTE
2905 Meridian Parkway, Durham NC 27713
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FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

PRELIMINARY PLAT FOR:
BRIAR CHAPEL
PHASE 4 - KIMBOLTON PLACE, LOTS 465 & 466
BALDWIN & WILLIAMS TOWNSHIPS, CHATHAM
COUNTY, NORTH CAROLINA
NEW-09004



GENERAL NOTES:

- EXISTING INFRASTRUCTURE AS SHOWN IS CURRENTLY UNDER CONSTRUCTION AND SHALL BE FIELD VERIFIED BY CONTRACTOR. REFER TO THE FOLLOWING JOHN R. MCADAMS COMPANY, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING INFRASTRUCTURE.
 - BRIAR CHAPEL - RECLAMATION FACILITY EROSION CONTROL PLAN SEALED JULY 29, 2005.
 - BRIAR CHAPEL - PHASE 1 CONSTRUCTION PLANS SEALED OCTOBER 21, 2005.
 - BRIAR CHAPEL - WEST EXTENSION GRADING PLAN (INTERIM) SEALED MARCH 3, 2007.
 - BRIAR CHAPEL - PHASE 3 CONSTRUCTION PLANS SEALED DECEMBER 4, 2006.
 - BRIAR CHAPEL - PHASE 4 CONSTRUCTION PLANS SEALED JANUARY 15, 2007.
 - BRIAR CHAPEL - WATER QUALITY POND 4 CONSTRUCTION PLANS SEALED AUGUST 16, 2006.
 - BRIAR CHAPEL - PUMP STATION CONSTRUCTION PLANS DATED APRIL 3, 2006.
 - BRIAR CHAPEL - PHASE 4-POD 2 CONSTRUCTION PLANS SEALED SEPTEMBER 17, 2007.
 - BRIAR CHAPEL - PHASE 3 & 4 EROSION CONTROL PLANS SEALED JULY 26, 2007.
 - BRIAR CHAPEL - PHASE 5 NORTH UNAPPROVED CONSTRUCTION PLANS SEALED APRIL 11, 2008.
 - BRIAR CHAPEL - GREAT RIDGE PARKWAY NORTH EXTENSION PLANS SEALED JANUARY 31, 2008.
 - BRIAR CHAPEL - PHASE 3, PHASE 4 AND GREAT RIDGE PARKWAY NORTH GROUNDRAIL PLANS SEALED JULY 31, 2008.
 - BRIAR CHAPEL - DUKE ENERGY EASEMENT EROSION CONTROL PLAN SEALED AUGUST 20, 2007.
 - BRIAR CHAPEL - DUKE ENERGY EASEMENT HAUL ROAD EROSION CONTROL PLAN SEALED OCTOBER 11, 2007.
- BEARINGS SHOWN HEREON ARE BASED ON N.C. GRID (NAD 83) NCGS MONUMENTS "MEACHAM" AND "GUNTER".
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
- BOUNDARY LINES SHOWN HEREON ARE COMPILED FROM A COMBINATION OF TAX MAPS, DEEDS, AND PLATS OF RECORD, PROPOSED PROPERTY LINES, AND/OR ACTUAL FIELD LOCATION.
- EXISTING TOPOGRAPHIC DATA IS BASED ON AERIAL MAPPING PERFORMED BY AIR SURVEY (45180 BUSINESS COURT, DULLES, VIRGINIA, 20158-6705, PHONE: 1-800-272-6289, CONTACT: ED CROSSAN). THE MAPPING IS DATED 12/18/2000. ELEVATIONS ARE BASED ON NGVD 29. (SEE AERIAL MAPPING NOTE, THIS SHEET).
- PROJECT IS LOCATED IN THE CAPE FEAR RIVER BASIN.
- STREAM AND WETLAND LOCATIONS ARE BASED ON DELINEATIONS PROVIDED BY SOIL AND ENVIRONMENTAL CONSULTANTS (11010 RAVEN RIDGE ROAD, RALEIGH, NORTH CAROLINA 27614, PHONE: 919-846-5900, CONTACT: NIKKI THOMSON).
- "N.F.V." MEANS "NOT FIELD VERIFIED" AS TO EXACT LOCATION AND/OR ELEVATION. INFORMATION SHOWN IS BASED ON PREVIOUS DESIGN DRAWINGS WHICH HAVE BEEN RELEASED FOR CONSTRUCTION.
- TEMPORARY VERTICAL BENCHMARKS (TBM) AS SHOWN ARE TIED TO NGVD 29. TEMPORARY BENCHMARKS WERE INSTALLED BY THE JOHN R. MCADAMS COMPANY PRIOR TO CONSTRUCTION ACTIVITIES (FIELD VERIFY).

FLOODPLAIN NOTE:

A PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA F.I.R.M. MAP # 3710277500J AND 371027500J WITH AN EFFECTIVE DATE OF FEBRUARY 2, 2007. THE CONDITIONAL LETTER OF MAP REVISION WAS APPROVED ON SEPTEMBER 6, 2007 FOR POKEBERRY CREEK, CASE #07-04-3196R.

AERIAL MAPPING NOTE:

SOME EXISTING TOPOGRAPHY AS SHOWN IN THESE CONSTRUCTION DRAWINGS LIES WITHIN OBSCURED AREAS AND HAS BEEN IDENTIFIED WITHIN THESE CONSTRUCTION DRAWINGS AS INDEFINITE AERIAL MAPPING INFORMATION. AERIAL MAP WAS PRODUCED BY PHOTOMETRIC METHODS FROM AERIAL PHOTOGRAPHY IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS AS PUBLISHED BY THE USGS. PLANIMETRIC AND TOPOGRAPHIC FEATURES THAT LIE IN AREAS DELINEATED AS "OBSCURE" MAY NOT ADHERE TO NATIONAL MAP ACCURACY STANDARDS. NINETY-FIVE (95) PERCENT OF ALL CONTOURS ON CLEAR UNOBSCURED GROUND WILL BE CORRECT TO WITHIN ONE-HALF (1/2) OF THE CONTOUR INTERVAL. THE REMAINING FIVE (5) PERCENT WILL NOT EXCEED ERROR OF MORE THAN THE CONTOUR INTERVAL. DASHED-LINE CONTOURS SHALL HAVE AN ACCURACY WITH RESPECT TO TRUE ELEVATION OF ONE CONTOUR INTERVAL OR ONE-FOURTH (1/4) THE AVERAGE HEIGHT OF THE GROUND COVER, WHICHEVER IS GREATER. NINETY (90) PERCENT OF ALL SPOT ELEVATIONS ON CLEAR UNOBSCURED GROUND WILL BE CORRECT TO WITHIN TWENTY-FIVE (25) PERCENT OF THE SPECIFIED CONTOUR INTERVAL, AND NONE WILL BE IN ERROR BY MORE THAN FIFTY (50) PERCENT OF THAT CONTOUR INTERVAL. NINETY-FIVE (95) PERCENT OF ALL VISIBLE PLANIMETRIC FEATURES SHALL BE WITHIN ONE-FORTIETH (1/40) OF AN INCH, AT MAP SCALE, OF THEIR CORRECT COORDINATE POSITIONS. NO SUCH WELL DEFINED FEATURES SHALL BE IN ERROR BY MORE THAN ONE-TWENTIETH (1/20) OF AN INCH.

FIELD SURVEY NOTES:

- EXISTING TOPOGRAPHY AS SHOWN IN THE BOUNDARIES MARKED AS FIELD SURVEY WAS CREATED BY THE JOHN R. MCADAMS CO., AND IS BASED ON VERTICAL DATUM NGVD 29.
- TOPOGRAPHY CONTAINED WITHIN FIELD SURVEY BOUNDARIES WAS BUILT FROM ON THE GROUND FIELD DATA RECORDED ON JUNE 14, 2007. ADDITIONAL INFORMATION RECORDED ON OCTOBER 12, 2007, OCTOBER 18, 2007, OCTOBER 19, 2007, OCTOBER 23, 2007, AND JANUARY 14, 2008.

NOTE: ALL VERTICAL INFORMATION AS SHOWN IS BASED ON NGVD 29 DATUM

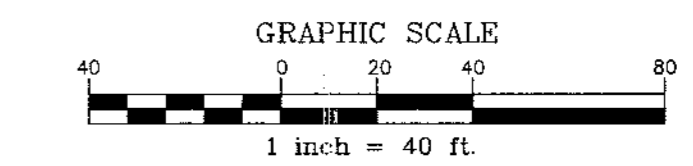
SOIL LEGEND*

- 3A CHEWACL & WEHADKEE (0%-2% SLOPES) FREQUENTLY FLOODED
 - 5A CHEWACL & WEHADKEE (0%-2% SLOPES) FREQUENTLY FLOODED
 - 37B WEDDOWEE SANDY LOAM (2%-6% SLOPES)
 - 37C WEDDOWEE SANDY LOAM (6%-10% SLOPES)
 - 57C WEDDOWEE SANDY LOAM (6%-10% SLOPES)
 - 37D WEDDOWEE SANDY LOAM (2%-6% SLOPES)
 - 37E WEDDOWEE SANDY LOAM (15%-25% SLOPES)
 - 39C WEDDOWEE SANDY LOAM (2%-15% SLOPES) BOULDERY
 - 39E WEDDOWEE SANDY LOAM (15%-35% SLOPES) BOULDERY
 - 51B HELENA SANDY LOAM (15%-35% SLOPES)
 - 51C HELENA SANDY LOAM (6%-10% SLOPES)
 - 57B VANCE SANDY LOAM (2%-6% SLOPES)
- * SOIL INFORMATION FROM CHATHAM COUNTY SOILS SURVEY

LEGEND

- WATER VALVE
- WATER METER
- FIRE HYDRANT
- CURB INLET
- YARD INLET
- SILT FENCE OUTLET
- STORM DRAIN
- W - W - W
- WATER LINE
- SS - SS - SS
- SANITARY SEWER LINE
- PROPERTY LINE
- 50' CHATHAM COUNTY STREAM BUFFER
- 10' NO-BUILD STREAM BUFFER SETBACK
- SANITARY FORCE MAIN
- SILT FENCE
- TP - TP - TP
- TREE PROTECTION
- LD - LD
- LIMITS OF DISTURBANCE
- FIELD SURVEY BOUNDARY
- SOIL DELINEATION LINE
- EXTENTS OF INDEFINITE TOPOGRAPHY
- WOODED AREA
- DIVERSION DITCH
- EXISTING WETLANDS
- SANITARY SEWER MANHOLE
- LOT NUMBER
- TEMPORARY BENCH MARK

EXISTING UTILITIES NOTE:
CONTRACTOR IS ADVISED THAT EXISTING UTILITIES WITHIN PRIVATE UTILITY EASEMENTS ARE NOT FIELD VERIFIED. CONTRACTOR SHALL USE EXTREME CAUTION DURING CONSTRUCTION WITHIN PRIVATE UTILITY EASEMENTS, AND IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES.



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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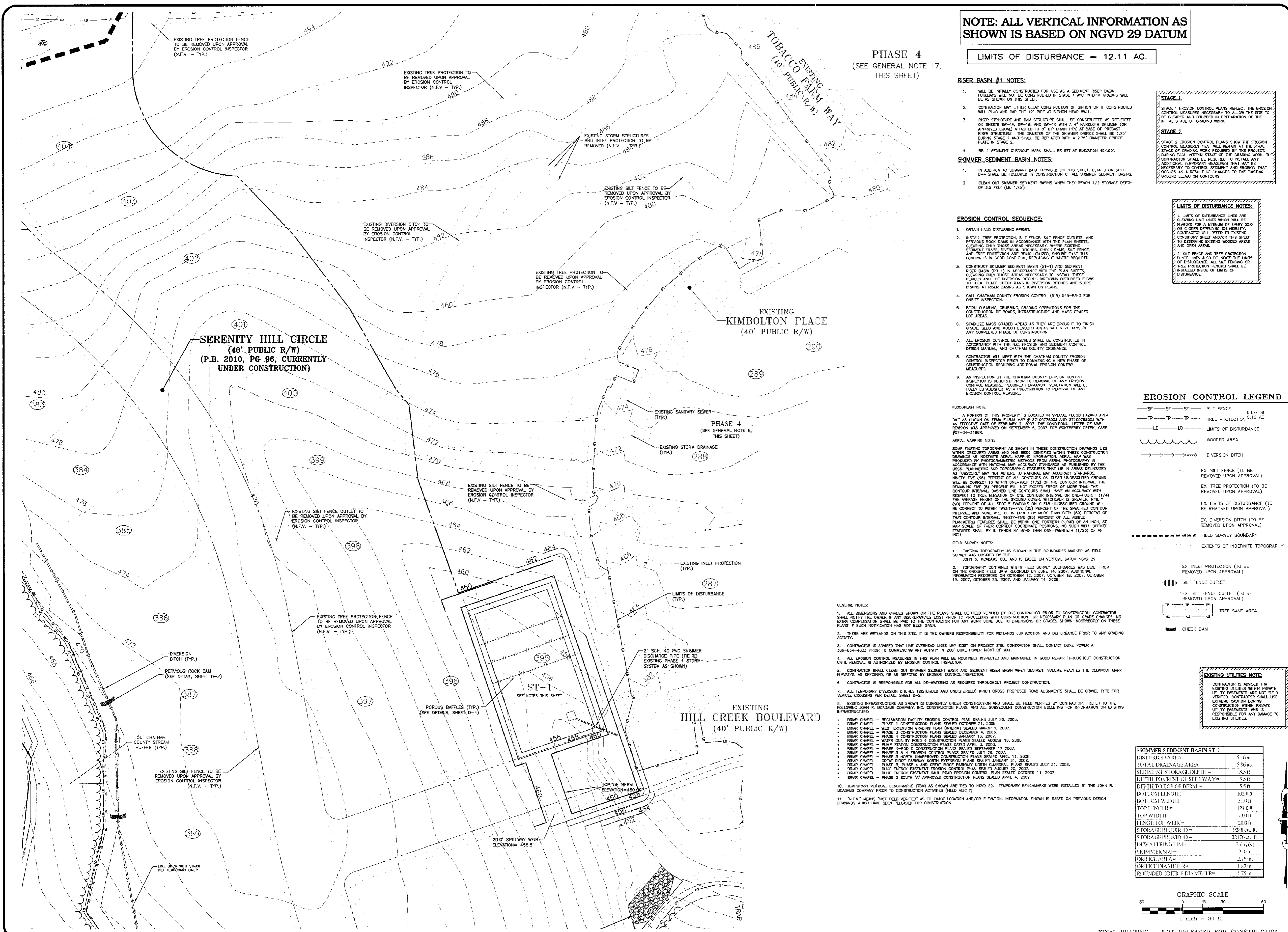
REVISIONS:

OWNER:
BRIAR CHAPEL™
 Newland Communities
 NNP - BRIAR CHAPEL, L.L.C.
 16 WINDY KNOLL CIRCLE
 CHAPEL HILL, NORTH CAROLINA 27516

PROJECT NO.: NEW-09004
FILENAME: NEW09007XC2.dwg
DESIGNED BY: WTO
DRAWN BY: MDS
SCALE: 1" = 40'
DATE: 05-07-2010
SHEET NO.: C-2

McADAMS

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NOTE: ALL VERTICAL INFORMATION AS SHOWN IS BASED ON NGVD 29 DATUM

PHASE 4
(SEE GENERAL NOTE 17, THIS SHEET)

LIMITS OF DISTURBANCE = 12.11 AC.

RISER BASIN #1 NOTES:

1. WILL BE INITIALLY CONSTRUCTED FOR USE AS A SEDIMENT RISER BASIN. FOREBAYS WILL NOT BE CONSTRUCTED IN STAGE 1 AND INTERIM GRADING SHALL BE AS SHOWN ON THIS SHEET.
2. CONTRACTOR MAY EITHER DELAY CONSTRUCTION OF SIPHON OR IF CONSTRUCTED WILL PLUG AND CAP THE 12" PIPE AT SIPHON HEAD WALL.
3. RISER STRUCTURE AND DAM STRUCTURE SHALL BE CONSTRUCTED AS REFLECTED ON SHEETS SW-1A, SW-1B, AND SW-1C WITH A 4" PARALLEL SKIMMER (OR APPROVED EQUAL) ATTACHED TO 8" DIP URAN PIPE AT BASE OF PRECAST RISER STRUCTURE. THE DIAMETER OF THE SKIMMER ORIFICE SHALL BE 1.75" DURING STAGE 1 AND SHALL BE REPLACED WITH A 2.75" DIAMETER ORIFICE PLATE IN STAGE 2.
4. 8B-1 SEDIMENT CLEANOUT MARK SHALL BE SET AT ELEVATION 454.50'.

SKIMMER SEDIMENT BASIN NOTES:

1. IN ADDITION TO SUMMARY DATA PROVIDED ON THIS SHEET, DETAILS ON SHEET D-4 SHALL BE FOLLOWED IN CONSTRUCTION OF ALL SKIMMER SEDIMENT BASINS.
2. CLEAN OUT SKIMMER SEDIMENT BASINS WHEN THEY REACH 1/2 STORAGE DEPTH OF 3.5 FEET (I.E. 1.75')

STAGE 1

STAGE 1 EROSION CONTROL PLANS REFLECT THE EROSION CONTROL MEASURES NECESSARY TO ALLOW THE SITE TO BE CLEARED AND GRUBBED IN PREPARATION OF THE INITIAL STAGE OF GRADING WORK.

STAGE 2

STAGE 2 EROSION CONTROL PLANS SHOW THE EROSION CONTROL MEASURES THAT WILL REMAIN AT THE FINAL STAGE OF GRADING WORK REQUIRED BY THE PROJECT. DURING EACH INTERIM STAGE OF THE GRADING WORK, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ANY ADDITIONAL TEMPORARY MEASURES THAT MAY BE NECESSARY TO CONTROL SEDIMENT AND EROSION THAT OCCURS AS A RESULT OF CHANGES TO THE EXISTING GROUND ELEVATION CONTOURS.

LIMITS OF DISTURBANCE NOTES:

1. LIMITS OF DISTURBANCE LINES ARE CLEARING LIMIT LINES WHICH WILL BE PLACED FOR A MINIMUM OF EVERY 50' OR CLOSER DEPENDING ON VISIBILITY. CONTRACTOR WILL REFER TO EXISTING CONDITIONS SHEET AND/OR THIS SHEET TO DETERMINE EXISTING WOODS AREAS AND OPEN AREAS.
2. SILT FENCE AND TREE PROTECTION FENCE LINES ALSO DENOTE THE LIMITS OF DISTURBANCE. ALL SILT FENCING OR TREE PROTECTION FENCING SHALL BE INSTALLED INSIDE OF LIMITS OF DISTURBANCE.

EROSION CONTROL SEQUENCE:

1. OBTAIN LAND DISTURBING PERMIT.
2. INSTALL TREE PROTECTION, SILT FENCE, SILT FENCE OUTLETS, AND PERVIOUS ROCK DAMS IN ACCORDANCE WITH THE PLAN SHEETS, CLEARING ONLY THOSE AREAS NECESSARY. WHERE EXISTING SEDIMENT TRAPS, DIVERSION DITCHES, CHECK DAMS, SILT FENCE, AND TREE PROTECTION ARE BEING UTILIZED, ENSURE THAT THIS FENCING IS IN GOOD CONDITION, REPLACING IT WHERE REQUIRED.
3. CONSTRUCT SKIMMER SEDIMENT BASIN (ST-1) AND SEDIMENT RISER BASIN (RB-1) IN ACCORDANCE WITH THE PLAN SHEETS, CLEARING ONLY THOSE AREAS NECESSARY TO INSTALL THESE DEVICES AND THE DIVERSION DITCHES DIRECTING DISTURBED FLOWS TO THEM. PLACE CHECK DAMS IN DIVERSION DITCHES AND SLOPE DRAINS AT RISER BASINS AS SHOWN ON PLANS.
4. CALL CHATHAM COUNTY EROSION CONTROL (919) 545-8343 FOR ON-SITE INSPECTION.
5. BEGIN CLEARING, GRUBBING, GRADING OPERATIONS FOR THE CONSTRUCTION OF ROADS, INFRASTRUCTURE AND MASS GRADED LOT AREAS.
6. STABILIZE MASS GRADED AREAS AS THEY ARE BROUGHT TO FINISH GRADE. SEED AND MULCH DENuded AREAS WITHIN 21 DAYS OF ANY COMPLETED PHASE OF CONSTRUCTION.
7. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL DESIGN MANUAL AND CHATHAM COUNTY ORDINANCE.
8. CONTRACTOR WILL MEET WITH THE CHATHAM COUNTY EROSION CONTROL INSPECTOR PRIOR TO COMMENCING A NEW PHASE OF CONSTRUCTION REQUIRING ADDITIONAL EROSION CONTROL MEASURES.
9. AN INSPECTION BY THE CHATHAM COUNTY EROSION CONTROL INSPECTOR IS REQUIRED PRIOR TO REMOVAL OF ANY EROSION CONTROL MEASURE. REMOVED PERMANENT VEGETATION WILL BE FULLY ESTABLISHED AS A PRECONDITION TO REMOVAL OF ANY EROSION CONTROL MEASURE.

FLOORPLAN NOTE:

A PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "A" AS SHOWN ON FEMA FIRM MAP # 3710977500J AND 3710976500J WITH AN EFFECTIVE DATE OF FEBRUARY 2, 2007. THE CONDITIONAL LETTER "P" FOR FLOOD ZONING WAS APPROVED ON SEPTEMBER 6, 2007 FOR FOREBERRY CREEK, CASE #07-04-3196R.

AERIAL MAPPING NOTE:

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FIELD SURVEY NOTES:

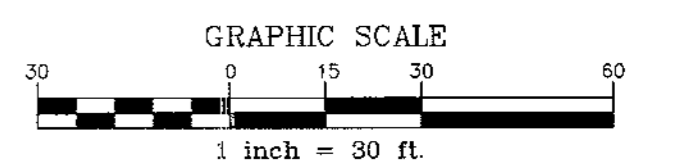
1. EXISTING TOPOGRAPHY AS SHOWN IN THE BOUNDARIES MARKED AS FIELD SURVEY WAS CREATED BY THE JOHN R. McADAMS CO., AND IS BASED ON VERTICAL DATUM NGVD 29.
2. TOPOGRAPHY CONTAINED WITHIN FIELD SURVEY BOUNDARIES WAS BUILT FROM ON THE GROUND FIELD DATA RECORDED ON JUNE 14, 2007, OCTOBER 18, 2007, OCTOBER 19, 2007, OCTOBER 23, 2007, AND JANUARY 14, 2008.

GENERAL NOTES:

1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
2. THERE ARE WETLANDS ON THIS SITE. IT IS THE OWNER'S RESPONSIBILITY FOR WETLANDS JURISDICTION AND DISTURBANCE PRIOR TO ANY GRADING ACTIVITY.
3. CONTRACTOR IS ADVISED THAT LIVE OVERHEAD LINES MAY EXIST ON PROJECT SITE. CONTRACTOR SHALL CONTACT DUKE POWER AT 366-6341-6333 PRIOR TO COMMENCING ANY ACTIVITY IN 200' DUKE POWER RIGHT OF WAY.
4. ALL EROSION CONTROL MEASURES IN THIS PLAN WILL BE ROUTINELY INSPECTED AND MAINTAINED IN GOOD REPAIR THROUGHOUT CONSTRUCTION UNTIL REMOVAL IS AUTHORIZED BY EROSION CONTROL INSPECTOR.
5. CONTRACTOR SHALL CLEAN-OUT SKIMMER SEDIMENT BASIN AND SEDIMENT RISER BASIN WHEN SEDIMENT VOLUME REACHES THE CLEANOUT MARK ELEVATION AS SPECIFIED, OR AS DIRECTED BY EROSION CONTROL INSPECTOR.
6. CONTRACTOR IS RESPONSIBLE FOR ALL DE-WATERING AS REQUIRED THROUGHOUT CONSTRUCTION.
7. ALL TEMPORARY DIVERSION DITCHES (DISTURBED AND UNDISTURBED) WHICH CROSS PROPOSED ROAD ALIGNMENTS SHALL BE GRAVEL TYPE FOR VEHICLE CROSSING PER DETAIL SHEET D-2.
8. EXISTING INFRASTRUCTURE AS SHOWN IS CURRENTLY UNDER CONSTRUCTION AND SHALL BE FIELD VERIFIED BY CONTRACTOR. REFER TO THE FOLLOWING JOHN R. McADAMS COMPANY, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING INFRASTRUCTURE:
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 - BRIAR CHAPEL - DUKE ENERGY EASEMENT HALL ROAD EROSION CONTROL PLAN SEALED OCTOBER 11, 2007.
 - BRIAR CHAPEL - PHASE 5 SOUTH "A" APPROVED CONSTRUCTION PLANS SEALED APRIL 4, 2009.
9. TEMPORARY VERTICAL BENCHMARKS (TBM) AS SHOWN ARE TIED TO NGVD 29. TEMPORARY BENCHMARKS WERE INSTALLED BY THE JOHN R. McADAMS COMPANY PRIOR TO CONSTRUCTION ACTIVITIES (FIELD VERIFY).
10. "N.F.V." MEANS "NOT FIELD VERIFIED" AS TO EXACT LOCATION AND/OR ELEVATION. INFORMATION SHOWN IS BASED ON PREVIOUS DESIGN DRAWINGS WHICH HAVE BEEN RELEASED FOR CONSTRUCTION.

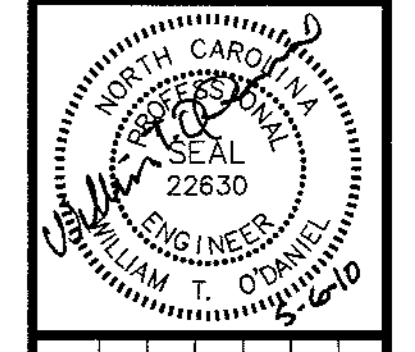
SKIMMER SEDIMENT BASIN ST-1

DISTURBED AREA =	5.16 ac.
TOTAL DRAINAGE AREA =	5.86 ac.
SEDIMENT STORAGE DEPTH =	3.5 ft.
DEPTH TO CRIST OF SPOW LWAY =	3.5 ft.
DEPTH TO TOP OF BERM =	5.5 ft.
BOTTOM LENGTH =	102.0 ft.
BOTTOM WIDTH =	51.0 ft.
TOP LENGTH =	124.0 ft.
TOP WIDTH =	73.0 ft.
LENGTH OF WEIR =	20.0 ft.
STORAGE REQUIRED =	9288 cu. ft.
STORAGE PROVIDED =	22170 cu. ft.
DEWATERING TIME =	3 days(s)
SKIMMER SIZE =	2.0 in.
ORIFICE AREA =	2.76 in.
ORIFICE DIAMETER =	1.87 in.
ROUNDED ORIFICE DIAMETER =	1.75 in.



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REVISIONS:

BRIAR CHAPEL
Newland Communities

OWNER: **BRIAR CHAPEL, L.L.C.**
16 WINDY KNOLL CIRCLE
CHAPEL HILL, NORTH CAROLINA 27516

PHASE 4 - KIMBOLTON PLACE, LOTS 465 & 466
PRELIMINARY PLAN

U.S. HWY. 15-501 & MANN'S CHAPEL ROAD, BALDWIN & WILLIAMS TOWNSHIPS, CHATHAM COUNTY, NORTH CAROLINA

STAGE 1 EROSION CONTROL PLAN

PROJECT No. NEW-09004

FILENAME: NEW09007-EC1.dwg

DESIGNED BY: WTO

DRAWN BY: MDS

SCALE: 1" = 30'

DATE: 05-07-2010

SHEET No. **C-4**

McADAMS

NOTE: ALL VERTICAL INFORMATION AS SHOWN IS BASED ON NGVD 29 DATUM

STAGE 1
STAGE 1 EROSION CONTROL PLANS REFLECT THE EROSION CONTROL MEASURES NECESSARY TO ALLOW THE SITE TO BE CLEARED AND GRUBBED IN PREPARATION OF THE INITIAL STAGE OF GRADING WORK.

STAGE 2
STAGE 2 EROSION CONTROL PLANS SHOW THE EROSION CONTROL MEASURES THAT WILL REMAIN AT THE FINAL STAGE OF GRADING WORK REQUIRED BY THE PROJECT. DURING EACH INTERIM STAGE OF THE GRADING WORK, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ANY ADDITIONAL TEMPORARY MEASURES THAT MAY BE NECESSARY TO CONTROL SEDIMENT AND EROSION THAT OCCURS AS A RESULT OF CHANGES TO THE EXISTING GROUND ELEVATION CONTOURS.

RISER BASIN #1 NOTES:

1. WILL BE INITIALLY CONSTRUCTED FOR USE AS A SEDIMENT RISER BASIN. FOREBAYS WILL NOT BE CONSTRUCTED IN STAGE 1 AND INTERIM GRADING WILL BE AS SHOWN ON THIS SHEET.
2. CONTRACTOR MAY EITHER DELAY CONSTRUCTION OF SIPHON OR IF CONSTRUCTED WILL PLUG AND CAP THE 12" PIPE AT SIPHON HEAD WALL.
3. RISER STRUCTURE AND DAM STRUCTURE SHALL BE CONSTRUCTED AS REFLECTED ON SHEETS 20-1A, 20-1B, AND 20-1C WITH A 4" FIBERGLASS SIPHON (OR APPROVED EQUAL) ATTACHED TO 8" DIP DRAIN PIPE AT BASE OF PRECAST RISER STRUCTURE. THE DIAMETER OF THE SIPHON ORIFICE SHALL BE 1.75" DURING STAGE 1 AND SHALL BE REPLACED WITH A 2.75" DIAMETER ORIFICE PLATE IN STAGE 2.
4. RB-1 SEDIMENT CLEANOUT MARK SHALL BE SET AT ELEVATION 454.50'.

SKIMMER SEDIMENT BASIN NOTES:

1. IN ADDITION TO SUMMARY DATA PROVIDED ON THIS SHEET, DETAILS ON SHEET D-4 SHALL BE FOLLOWED IN CONSTRUCTION OF ALL SKIMMER SEDIMENT BASINS.
2. CLEAN OUT SKIMMER SEDIMENT BASINS WHEN THEY REACH 1/2 STORAGE DEPTH OF 3.5 FEET (I.E. 1.75').

EROSION CONTROL LEGEND

- SILT FENCE
- TREE PROTECTION
- LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- EX. SILT FENCE (TO BE REMOVED UPON APPROVAL)
- EX. TREE PROTECTION (TO BE REMOVED UPON APPROVAL)
- EX. LIMITS OF DISTURBANCE (TO BE REMOVED UPON APPROVAL)
- EX. DIVERSION DITCH (TO BE REMOVED UPON APPROVAL)
- EXTENTS OF INDEFINITE TOPOGRAPHY
- EX. INLET PROTECTION (TO BE REMOVED UPON APPROVAL)
- SILT FENCE OUTLET
- EX. SILT FENCE OUTLET (TO BE REMOVED UPON APPROVAL)
- TREE SAVE AREA
- CHECK DAM

LIMITS OF DISTURBANCE NOTES:

1. LIMITS OF DISTURBANCE LINES ARE CLEARING LIMIT LINES WHICH WILL BE FLAGGED FOR A MINIMUM OF 50.0' OR CLOSER DEPENDING ON VISIBILITY. CONTRACTOR WILL REFER TO EXISTING CONDITIONS SHEET AND/OR THIS SHEET TO DETERMINE EXISTING WOODED AREAS AND OPEN AREAS.
2. SILT FENCE AND TREE PROTECTION FENCE LINES ALSO DELINEATE THE LIMITS OF DISTURBANCE. TREE PROTECTION FENCING SHALL BE INSTALLED INSIDE OF LIMITS OF DISTURBANCE.

EROSION CONTROL SEQUENCE:

1. OBTAIN LAND DISTURBING PERMIT.
2. INSTALL TREE PROTECTION, SILT FENCE, SILT FENCE OUTLETS, AND PERVIOUS ROCK DAMS IN ACCORDANCE WITH THE PLAN SHEETS, CLEARING ONLY THOSE AREAS NECESSARY TO INSTALL THESE DEVICES AND THE DIVERSION DITCHES DIRECTIONING DISTURBED FLOWS TO THEM. PLACE CHECK DAMS IN DIVERSION DITCHES AND SLOPE DRAINS AT RISER BASINS AS SHOWN ON PLANS.
3. CONSTRUCT SKIMMER SEDIMENT BASIN (ST-1) AND SEDIMENT RISER BASIN (RB-1) IN ACCORDANCE WITH THE PLAN SHEETS, CLEARING ONLY THOSE AREAS NECESSARY TO INSTALL THESE DEVICES AND THE DIVERSION DITCHES DIRECTIONING DISTURBED FLOWS TO THEM. PLACE CHECK DAMS IN DIVERSION DITCHES AND SLOPE DRAINS AT RISER BASINS AS SHOWN ON PLANS.
4. CALL CHATHAM COUNTY EROSION CONTROL (919) 545-8343 FOR ASSISTANCE.
5. BEGIN CLEARING, GRUBBING, GRADING OPERATIONS FOR THE CONSTRUCTION OF ROADS, INFRASTRUCTURE AND MASS GRADED LOT AREAS.
6. STABILIZE MASS GRADED AREAS AS THEY ARE BROUGHT TO FINISH GRADE. SEED AND MULCH DENuded AREAS WITHIN 21 DAYS OF ANY COMPLETED PHASE OF CONSTRUCTION.
7. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL DESIGN MANUAL AND CHATHAM COUNTY ORDINANCE.
8. CONTRACTOR WILL MEET WITH THE CHATHAM COUNTY EROSION CONTROL INSPECTOR PRIOR TO COMMENCING A NEW PHASE OF CONSTRUCTION REQUIRING ADDITIONAL EROSION CONTROL MEASURES.
9. AN INSPECTION BY THE CHATHAM COUNTY EROSION CONTROL INSPECTOR IS REQUIRED PRIOR TO REMOVAL OF ANY EROSION CONTROL MEASURE. REQUIRED PERMANENT VEGETATION WILL BE FULLY ESTABLISHED AS A PRECONDITION TO REMOVAL OF ANY EROSION CONTROL MEASURE.

FLOODPLAIN NOTE:

A PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA F.I.R.M. MAP # 211097700I AND 3710276500I WITH AN EFFECTIVE DATE OF FEBRUARY 2, 2007. THE CONDITIONAL LETTER OF MAP REVISION WAS APPROVED ON SEPTEMBER 6, 2007 FOR POKEBERRY CREEK, CASE #07-04-3196R.

AERIAL MAPPING NOTE:

SOME EXISTING TOPOGRAPHY AS SHOWN IN THESE CONSTRUCTION DRAWINGS LIES WITHIN OBSCURED AREAS AND HAS BEEN IDENTIFIED WITHIN THESE CONSTRUCTION DRAWINGS AS INDEFINITE AERIAL MAPPING INFORMATION. AERIAL MAP WAS PRODUCED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS AS PUBLISHED BY THE U.S. DEPARTMENT OF THE INTERIOR. PLANNING AND SURVEYING FEATURES DELINEATED AS "OBSCURED" MAY NOT ADHERE TO NATIONAL MAP ACCURACY STANDARDS. NINETEEN-FIVE (95) PERCENT OF ALL CONTOURS ON CLEAR UNOBSCURED GROUND WILL BE CORRECT TO WITHIN ONE-HALF (1/2) OF THE CONTOUR INTERVAL. THE REMAINING FIVE (5) PERCENT WILL NOT EXCEED ERROR OF MORE THAN THE CONTOUR INTERVAL. DASHED-LINE CONTOURS SHALL HAVE AN ACCURACY WITH RESPECT TO TRUE ELEVATION OF ONE CONTOUR INTERVAL OR ONE-FOURTH (1/4) THE AVERAGE HEIGHT OF THE GROUND COVER, WHICHEVER IS GREATER. (90) PERCENT OF ALL SPOT ELEVATIONS ON CLEAR UNOBSCURED GROUND WILL BE CORRECT TO WITHIN TWENTY-FIVE (25) PERCENT OF THE SPECIFIED CONTOUR INTERVAL, AND NONE WILL BE IN ERROR BY MORE THAN FIFTY (50) PERCENT OF THAT CONTOUR INTERVAL. NINETY-FIVE (95) PERCENT OF ALL VISIBLE PLANIMETRIC FEATURES SHALL BE WITHIN ONE-FORTIETH (1/40) OF AN INCH, AT MAP SCALE, OF THEIR CORRECT COORDINATE POSITIONS. NO SUCH WELL DEFINED FEATURES SHALL BE IN ERROR BY MORE THAN ONE-TWENTIETH (1/20) OF AN INCH.

FIELD SURVEY NOTES:

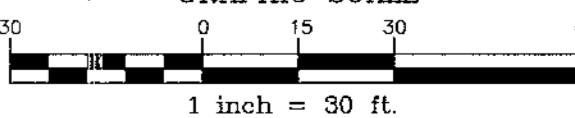
1. EXISTING TOPOGRAPHY AS SHOWN IN THE BOUNDARIES MARKED AS FIELD SURVEY WAS CREATED BY THE JOHN R. McADAMS CO., AND IS BASED ON VERTICAL DATUM NGVD 29.
2. TOPOGRAPHY CONTAINED WITHIN FIELD SURVEY BOUNDARIES WAS BUILT FROM ON THE GROUND FIELD DATA RECORDED ON JUNE 14, 2007, ADDITIONAL INFORMATION RECORDED ON OCTOBER 12, 2007, OCTOBER 18, 2007, OCTOBER 19, 2007, OCTOBER 23, 2007, AND JANUARY 14, 2008.

EXISTING UTILITIES NOTE:

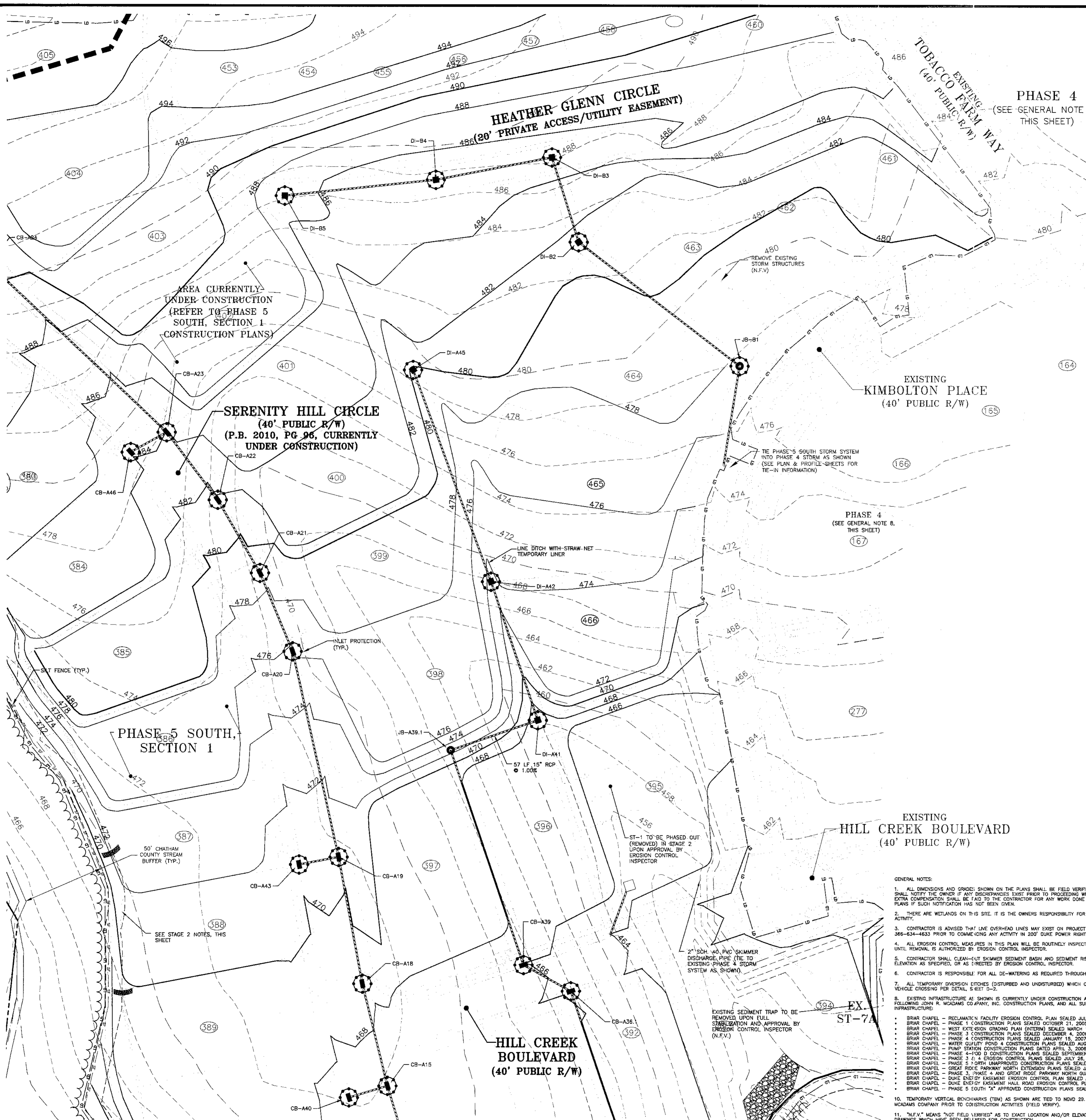
CONTRACTOR IS ADVISED THAT EXISTING UTILITIES WITHIN PRIVATE UTILITY EASEMENTS ARE NOT FIELD VERIFIED. CONTRACTOR SHALL USE EXTREME CAUTION DURING CONSTRUCTION WITHIN PRIVATE UTILITY EASEMENTS, AND IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES.

LIMITS OF DISTURBANCE = 12.11 AC.

GRAPHIC SCALE



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



- GENERAL NOTES:**
1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH INFORMATION HAS NOT BEEN GIVEN.
 2. THERE ARE WETLANDS ON THIS SITE. IT IS THE OWNERS RESPONSIBILITY FOR WETLANDS JURISDICTION AND DISTURBANCE PRIOR TO ANY GRADING ACTIVITY.
 3. CONTRACTOR IS ADVISED THAT LIVE OVERHEAD LINES MAY EXIST ON PROJECT SITE. CONTRACTOR SHALL CONTACT DUKE POWER AT 866-644-6633 PRIOR TO COMMENCING ANY ACTIVITY IN 2007 DUE TO POWER RIGHT OF WAY.
 4. ALL EROSION CONTROL MEASURES IN THIS PLAN WILL BE ROUTINELY INSPECTED AND MAINTAINED IN GOOD REPAIR THROUGHOUT CONSTRUCTION UNTIL REMOVAL IS AUTHORIZED BY EROSION CONTROL INSPECTOR.
 5. CONTRACTOR SHALL CLEAN-OUT SKIMMER SEDIMENT BASIN AND SEDIMENT RISER BASIN WHEN SEDIMENT VOLUME REACHES THE CLEANOUT MARK ELEVATION AS SPECIFIED, OR AS DIRECTED BY EROSION CONTROL INSPECTOR.
 6. CONTRACTOR IS RESPONSIBLE FOR ALL DE-WATERING AS REQUIRED THROUGHOUT PROJECT CONSTRUCTION.
 7. ALL TEMPORARY DIVERSION DITCHES (DISTURBED AND UNDISTURBED) WHICH CROSS PROPOSED ROAD ALIGNMENTS SHALL BE GRAVEL TYPE FOR VEHICLE CROSSING PER DETAIL 5.4E1 D-2.
 8. EXISTING INFRASTRUCTURE AS SHOWN IS CURRENTLY UNDER CONSTRUCTION AND SHALL BE FIELD VERIFIED BY CONTRACTOR. REFER TO THE FOLLOWING JOHN R. McADAMS COMPANY, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING INFRASTRUCTURE.
 - BRIAR CHAPEL - RECREATION FACILITY EROSION CONTROL PLAN SEALED JULY 29, 2005.
 - BRIAR CHAPEL - PHASE 1 CONSTRUCTION PLANS SEALED OCTOBER 21, 2005.
 - BRIAR CHAPEL - MOST LATEST DRAINAGE PLAN (EXTENSIVE) SEALED MARCH 1, 2007.
 - BRIAR CHAPEL - PHASE 3 CONSTRUCTION PLANS SEALED DECEMBER 4, 2006.
 - BRIAR CHAPEL - PHASE 4 CONSTRUCTION PLANS SEALED JANUARY 15, 2007.
 - BRIAR CHAPEL - WATER QUALITY POND 4 CONSTRUCTION PLANS SEALED AUGUST 16, 2006.
 - BRIAR CHAPEL - PARK STATION CONSTRUCTION PLANS DATED APRIL 3, 2007.
 - BRIAR CHAPEL - PHASE 4-100 D CONSTRUCTION PLANS SEALED SEPTEMBER 17, 2007.
 - BRIAR CHAPEL - PHASE 1 & 4 EROSION CONTROL PLANS SEALED JULY 26, 2007.
 - BRIAR CHAPEL - PHASE 5 1/2 ORTH UNAPPROVED CONSTRUCTION PLANS SEALED APRIL 11, 2008.
 - BRIAR CHAPEL - GREAT BRIDGE PARKWAY NORTH EXTENSION PLANS SEALED JANUARY 31, 2008.
 - BRIAR CHAPEL - PHASE 3, PHASE 4 AND GREAT BRIDGE PARKWAY NORTH QUADRANT PLANS SEALED JULY 31, 2008.
 - BRIAR CHAPEL - GREAT BRIDGE PARKWAY NORTH EXTENSION EROSION CONTROL PLAN SEALED AUGUST 20, 2007.
 - BRIAR CHAPEL - DUKE ENERGY EASEMENT WALL ROAD EROSION CONTROL PLAN SEALED OCTOBER 11, 2007.
 - BRIAR CHAPEL - PHASE 5 SOUTH "A" APPROVED CONSTRUCTION PLANS SEALED APRIL 4, 2009.
 9. TEMPORARY VERTICAL BENCHMARKS (TBM) AS SHOWN ARE TIED TO NGVD 29. TEMPORARY BENCHMARKS WERE INSTALLED BY THE JOHN R. McADAMS COMPANY PRIOR TO CONSTRUCTION ACTIVITIES (FIELD VERIFY).
 11. "N.F.V." MEANS "NOT FIELD VERIFIED" AS TO EXACT LOCATION AND/OR ELEVATION. INFORMATION SHOWN IS BASED ON PREVIOUS DESIGN DRAWINGS WHICH HAVE BEEN RELEASED FOR CONSTRUCTION.

THE JOHN R. McADAMS COMPANY, INC.
 ENGINEERS • PLANNERS • SURVEYORS • ENVIRONMENTAL
 RESEARCH TRIANGLE PARK • CHARLOTTE
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THE NORTH CAROLINA PROFESSIONAL ENGINEERS BOARD
 REGISTRATION NO. 22630
 WILLIAM T. O'BRIEN
 LICENSED PROFESSIONAL ENGINEER

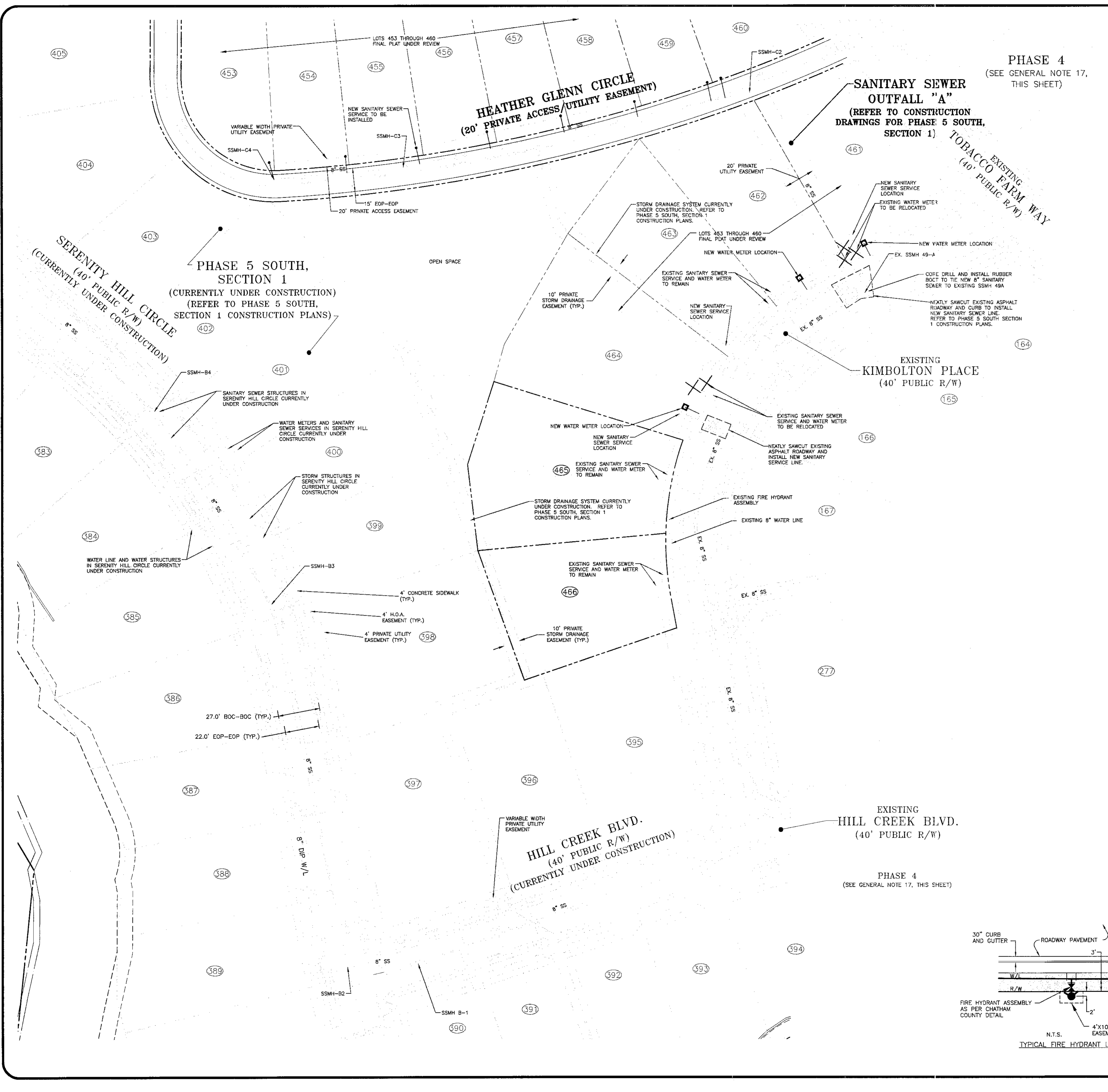
REVISIONS:

BRIAR CHAPEL
 Newland Communities
 NNP-BRIAR CHAPEL, L.L.C.
 CHAPEL HILL, NORTH CAROLINA 27516

BRIAR CHAPEL
 PHASE 4 - KIMBOLTON PLACE, LOTS 465 & 466
 PRELIMINARY PLAN
 U.S. HWY. 15-501 & CHATHAM COUNTY ROAD, BALDWIN & WILLIAMS TOWNSHIPS, CHATHAM COUNTY, NORTH CAROLINA
 STAGE 2 EROSION CONTROL PLAN

PROJECT NO: NEW-09004
 FILENAME: NEW09007-EC2.dwg
 DESIGNED BY: WTO
 DRAWN BY: MDS
 SCALE: 1" = 30'
 DATE: 05-07-2010
 SHEET NO: C-5

McADAMS



PHASE 4
(SEE GENERAL NOTE 17, THIS SHEET)

SANITARY SEWER
OUTFALL "A"
(REFER TO CONSTRUCTION
DRAWINGS FOR PHASE 5 SOUTH,
SECTION 1)

PHASE 5 SOUTH,
SECTION 1
(CURRENTLY UNDER CONSTRUCTION)
(REFER TO PHASE 5 SOUTH,
SECTION 1 CONSTRUCTION PLANS)

NOTE: ALL VERTICAL INFORMATION AS
SHOWN IS BASED ON NGVD 29 DATUM

SEE PLAN & PROFILE SHEETS FOR
DETAILED SANITARY SEWER STRUCTURE
AND PIPE INFORMATION WITHIN PUBLIC
ROADS AND DRIVE ALLEYS.

SANITARY SEWER NOTES:

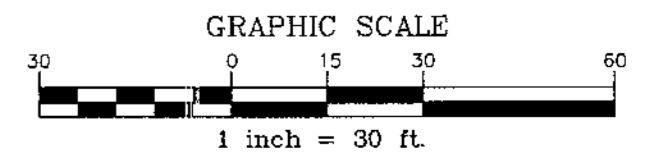
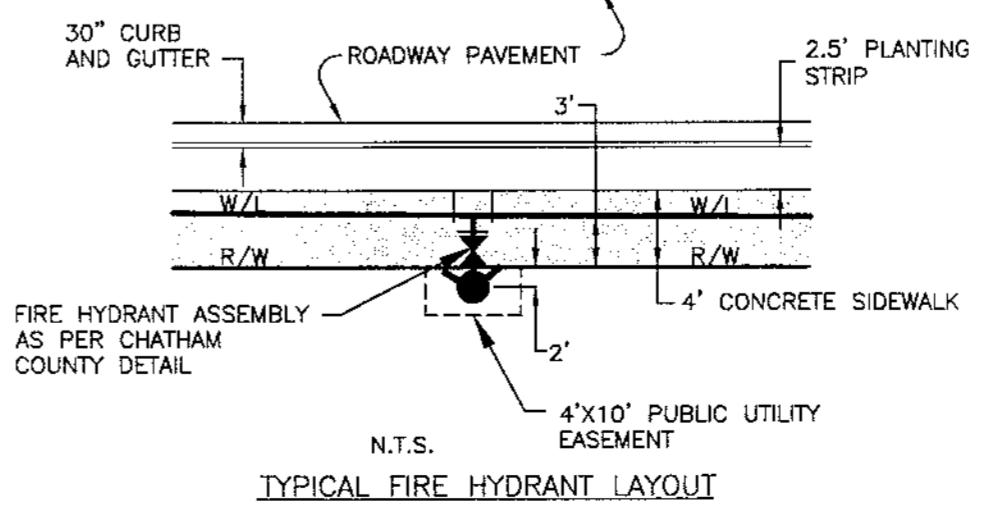
- BACKFLOW PREVENTORS SHALL BE PROVIDED FOR ALL UNITS WITH FINAL FLOOR ELEVATIONS OF BUILDINGS LESS THAN 1'-0" ABOVE UPSTREAM MANHOLE.
- MINIMUM COVER OF 5 FEET IN TRAFFIC AREAS TO BE PROVIDED FOR ALL COLLECTOR LINES 4 INCHES AND LARGER, IF LESS THAN 5 FEET, DUCTILE IRON PIPE SHALL BE REQUIRED.
- MINIMUM SLOPE FOR 4 INCH & 6 INCH SANITARY SEWER COLLECTION LINES SHALL BE NO LESS THAN 1.0% WITH CLEANOUTS EVERY 75 LINEAL FEET.
- USE WATER-TIGHT RIMS FOR SANITARY SEWER MANHOLES LOCATED IN PAVED ALLEYS.
- SANITARY SEWER PIPES CONSTRUCTED IN PHASE 5 SOUTH MAY REQUIRE CORING FOR PHASE 4 MANHOLE CONNECTIONS. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH THE OWNER.
- SANITARY SEWER WITHIN PRIVATE EASEMENTS TO BE OWNED, OPERATED, AND MAINTAINED BY HOME OWNERS ASSOCIATION OR AGENT THEREOF.

WATER NOTES

- WATER MAIN TO BE INSTALLED AT A DEPTH WITH A MINIMUM COVER OF 36 INCHES, WITH MINIMUM 18 INCHES VERTICAL CLEARANCE AND 10 FEET HORIZONTAL CLEARANCE FROM SANITARY SEWER GRAVITY MAINS AND/OR FORCE MAINS AND FROM IRRIGATION FORCE MAINS.
- PRESSURE REDUCING VALVE SHALL BE PROVIDED ON SERVICE LINES IF PRESSURE IS IN EXCESS OF 80 PSI.
- WATERLINES WILL BE AT LEAST 3' OFF CURB AND GUTTER UNLESS SHOWN OTHERWISE.

FLOODPLAIN NOTE:

A PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAP # 3710777500 AND 3710778500 WITH AN EFFECTIVE DATE OF FEBRUARY 2, 2007. THE CONDITIONAL LETTER OF MAP REVISION WAS APPROVED ON SEPTEMBER 6, 2007 FOR FLOODWAY CREEK, CASE #07-04-3199R.



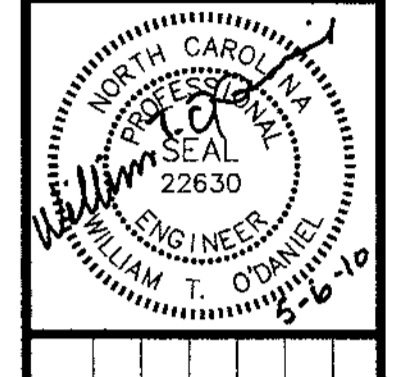
FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

- GENERAL NOTES:
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
 - ALL SITE CONSTRUCTION SHALL CONFORM TO CURRENT NORTH CAROLINA ACCESSIBILITY CODE.
 - CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (1-800-532-4244) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
 - PRIOR TO BEGINNING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL SCHEDULE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH CHATHAM COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH - JIM WILKS AT (919) 845-8343, AND A REPRESENTATIVE OF THE OWNER.
 - CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
 - EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
 - SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H/V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THESE SOILS SHALL BE COMPACTED TO THE STANDARD PROCTOR MAXIMUM DRY DENSITY UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
 - THERE ARE WETLANDS WITHIN THIS SITE. IT IS THE OWNER'S RESPONSIBILITY TO COORDINATE AND PERMIT ALL WETLANDS JURISDICTION AND DISTURBANCE PRIOR TO ANY GRADING ACTIVITY.
 - CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND SHALL REPLACE ALL MARKERS REMOVED IF DAMAGED DURING CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR ALL DE-WATERING AS REQUIRED THROUGHOUT PROJECT CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS, MONITORING, AND REPORTING REQUIREMENTS.
 - SEE SHEET D-1 FOR PROPOSED ROAD CROSS SECTION DETAILS AND PAVEMENT SCHEDULE.
 - ALLEYS ARE LOCATED INSIDE 20' PRIVATE EASEMENTS. ALL OTHER STREETS WITHIN PHASE 5 SOUTH ARE INSIDE 40' PUBLIC RIGHTS-OF-WAY.
 - THE TOPOGRAPHIC SURVEY DATA IS BASED ON AN AERIAL SURVEY PERFORMED BY AIR SURVEY (45180 BUSINESS COURT, DULLES, VIRGINIA, 20166-6706, PHONE: 1-800-272-6299, CONTACT: ED GROSSMAN). THE SURVEY IS DATED 12/18/2009. ELEVATIONS ARE BASED ON NGVD29.
 - STREAM AND WETLAND LOCATIONS ARE BASED ON DETERMINATIONS PROVIDED BY SOIL AND ENVIRONMENTAL CONSULTANTS (11010 RAVEN RIDGE ROAD, RALEIGH, NORTH CAROLINA 27614, PHONE: 919-846-5900, CONTACT: NADU THONSON).

- TEMPORARY VERTICAL BENCHMARKS (TBM) AS SHOWN ARE TIED TO NGVD 29. TEMPORARY BENCHMARKS WERE INSTALLED BY THE JOHN R. McADAMS COMPANY PRIOR TO CONSTRUCTION ACTIVITIES (FIELD VERIFY).
- EXISTING INFRASTRUCTURE AS SHOWN IS CURRENTLY UNDER CONSTRUCTION AND SHALL BE FIELD VERIFIED BY CONTRACTOR. REFER TO THE FOLLOWING JOHN R. McADAMS COMPANY, INC. CONSTRUCTION PLANS, AND ALL SUBSEQUENT CONSTRUCTION BULLETINS FOR INFORMATION ON EXISTING INFRASTRUCTURE:
 - BRIAR CHAPEL - RECLAMATION FACILITY EROSION CONTROL PLAN SEALED JULY 29, 2005.
 - BRIAR CHAPEL - PHASE 1 CONSTRUCTION PLANS SEALED OCTOBER 27, 2005.
 - BRIAR CHAPEL - WEST EXTENSION GRADING PLAN (INTERIM) SEALED MARCH 11, 2007.
 - BRIAR CHAPEL - PHASE 3 CONSTRUCTION PLANS SEALED DECEMBER 4, 2006.
 - BRIAR CHAPEL - PHASE 4 CONSTRUCTION PLANS SEALED JANUARY 15, 2007.
 - BRIAR CHAPEL - WATER QUALITY POND 4 CONSTRUCTION PLANS SEALED AUGUST 16, 2006.
 - BRIAR CHAPEL - PHASE 4-PROD 2 CONSTRUCTION PLANS SEALED SEPTEMBER 17, 2007.
 - BRIAR CHAPEL - PUMP STATION CONSTRUCTION PLANS SEALED APRIL 3, 2006.
 - BRIAR CHAPEL - PHASE 4-NORTH UNAPPROVED CONSTRUCTION PLANS SEALED APRIL 11, 2008.
 - BRIAR CHAPEL - PHASE 3 & 4 EROSION CONTROL PLANS SEALED APRIL 26, 2007.
 - BRIAR CHAPEL - PHASE 5 NORTH UNAPPROVED CONSTRUCTION PLANS SEALED APRIL 11, 2008.
 - BRIAR CHAPEL - GREAT RIDGE PARKWAY NORTH EXTENSION PLANS SEALED JANUARY 31, 2006.
 - BRIAR CHAPEL - PHASE 5, PHASE 4 AND GREAT RIDGE PARKWAY NORTH GUARDRAIL PLANS SEALED JULY 31, 2008.
 - BRIAR CHAPEL - GREAT RIDGE PARKWAY NORTH EXTENSION PLANS SEALED JANUARY 31, 2006.
 - BRIAR CHAPEL - DUKE ENERGY EASEMENT HILL ROAD EROSION CONTROL PLAN SEALED OCTOBER 11, 2007.
 - BRIAR CHAPEL - PHASE 5 SOUTH "A" APPROVED CONSTRUCTION PLANS SEALED APRIL 4, 2009.

BEFORE STARTING ANY CONSTRUCTION OF IMPROVEMENTS WITHIN ANY N.C.D.O.T. STREET OR HIGHWAY RIGHT-OF-WAY, CONTACT N.C.D.O.T. DISTRICT OFFICE AND GETTYSBURG BUREAU AND ENDSORCHMENTERS KEEP COPIES ON CONSTRUCTION SITE. ALSO CONTACT N.C.D.O.T. DISTRICT OFFICE 24 HOURS IN ADVANCE BEFORE PLACING CURB AND GUTTER AT 336-629-1423.

THE JOHN R. McADAMS
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REVISIONS:

OWNER:
BRIAR CHAPEL
Newland communities
NNP - BRIAR CHAPEL, L.L.C.
10 WINDY KNOLL CIRCLE
CHAPEL HILL, NORTH CAROLINA 27516

BRIAR CHAPEL
PHASE 4 - KIMBOLTON PLACE, LOTS 465 & 466
PRELIMINARY PLAT
U.S. HWY. 15-501 & MANN'S CHAPEL ROAD, BALDWIN & WILLIAMS
TOWNSHIPS, CHATHAM COUNTY, NORTH CAROLINA

UTILITY PLAN

PROJECT NO. NEW-09004
FILENAME: NEW09007-U1.dwg
DESIGNED BY: WTO
DRAWN BY: MDS
SCALE: 1"=30'
DATE: 05-07-2010
SHEET NO. C-6

McADAMS

X:\Projects\NEW\NEW\09007\LandConstruction\Current Drawings\Utility\Phase 4\PHASE 4.dwg, 5/6/2010 2:20:52 PM, sheet 11