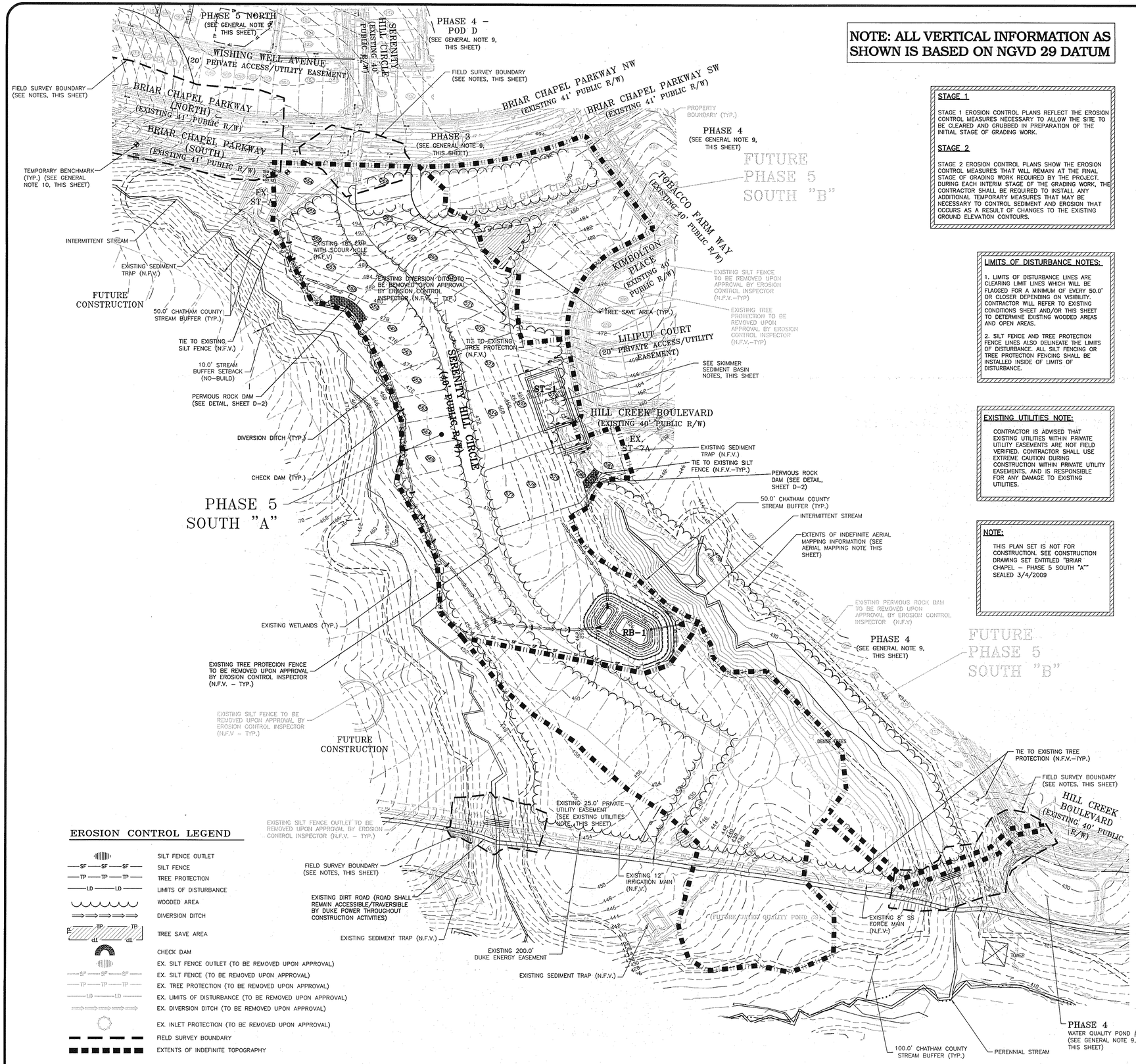

EROSION CONTROL LEGEND

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

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.

LIMITS OF DISTURBANCE NOTES:

1. LIMITS OF DISTURBANCE LINES ARE CLEARING LIMIT LINES WHICH WILL BE FLAGGED FOR A MINIMUM OF EVERY 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. ALL SILT FENCING OR TREE PROTECTION FENCING SHALL BE INSTALLED INSIDE OF LIMITS OF DISTURBANCE.

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.

NOTE:

THIS PLAN SET IS NOT FOR CONSTRUCTION. SEE CONSTRUCTION DRAWING SET ENTITLED "BRIAR CHAPEL – PHASE 5 SOUTH "A"" SEALED 3/4/2009

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 ONSITE 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. REQUIRED PERMANENT VEGETATION WILL BE FULLY ESTABLISHED AS A PRECONDITION TO REMOVAL OF ANY EROSION CONTROL MEASURE.

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. TOTAL DISTURBED AREA FOR PHASE 5 SOUTH "A" = 7.78 ACRES
3. THERE ARE WETLANDS ON THIS SITE. IT IS THE OWNERS RESPONSIBILITY FOR WETLANDS JURISDICTION AND DISTURBANCE PRIOR TO ANY GRADING ACTIVITY.
4. CONTRACTOR IS ADVISED THAT LIVE OVERHEAD LINES MAY EXIST ON PROJECT SITE. CONTRACTOR SHALL CONTACT DUKE POWER AT 366-634-4633 PRIOR TO COMMENCING ANY ACTIVITY IN 200' DUKE POWER RIGHT OF WAY.
5. 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.
6. 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.
7. CONTRACTOR IS RESPONSIBLE FOR ALL DE-WATERING AS REQUIRED THROUGHOUT PROJECT CONSTRUCTION.
8. ALL TEMPORARY DIVERSION DITCHES (DISTURBED AND UNDISTURBED) WHICH CROSS PROPOSED ROAD ALIGNMENTS SHALL BE GRAVEL TYPE FOR VEHICLE CROSSING PER DETAIL, SHEET D-2.
9. 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 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 – PUMP STATION CONSTRUCTION PLANS DATED APRIL 3, 2006.
   - BRIAR CHAPEL – PHASE 4-POD D 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 GUARDRAIL 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
10. 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.

FLOODPLAIN NOTE:

A PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA F.I.R.M MAP # 3710977500J AND 3710976500J 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 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:

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.

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 SW-1A, SW-1B, AND SW-1C WITH A 4" FAIRCLOTH SKIMMER (OR APPROVED EQUAL) ATTACHED TO 8" DIP DRAIN 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. 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')

GRAPHIC SCALE
100 0 50 100 200
1 inch = 100 ft.

FINAL DRAWING – NOT RELEASED FOR CONSTRUCTION

THE JOHN R. McADAMS COMPANY, INC.
ENGINEERS/PLANNERS/SURVEYORS
RESEARCH TRIANGLE PARK, NC
P.O. BOX 14005 ZIP 27709-4005
(919) 361-5000

NORTH CAROLINA PROFESSIONAL SEAL 22286 ENGINEER MICHAEL J.E. SANDEZ 01/01/09

REVISIONS:

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

BRIAR CHAPEL
PHASE 5 SOUTH "A"
PRELIMINARY PLAT SUBMITTAL
U.S. HWY. 15-501 & MANN'S CHAPEL ROAD, BALDWIN & WILLIAMS TOWNSHIPS, CHATHAM COUNTY, NORTH CAROLINA

OVERALL STAGE 1 EROSION CONTROL PLAN

PROJECT NO.	NEW-06030
FILENAME:	NEW06030EC7.dwg
DESIGNED BY:	MJS
DRAWN BY:	MDS
SCALE:	1"=100'
DATE:	04-10-2009
SHEET NO.	C-4

McADAMS

X:\Projects\NEW\NEW-06030\Land\Construction Drawings\Phase 5 South\Preliminary Plat Submittal (Phase 5 South A)\NEW06030-EC1.dwg, 4/8/2009 10:18:29 AM, stark, 1:1