

TOTAL DISTURBED AREA: 2,781 AC

SEDIMENT BASIN #1 0.79 AC.
 DRAINAGE AREA = 662,180 C.F.
 3'D x 20'W x 50'L = 3,000 C.F.
 WIER = 4'

TRAP EFFICIENCY:
 02=0.5+5.76=0.79=2.28 CFS
 02 X .01 X 43,560 = 993 SF
 2.28 X .01 X 43,560 = 993 SF
 20'W x 50'L = 1,000 SF

SEDIMENT BASIN #2
 DRAINAGE AREA = .31 AC.
 REO. STORAGE = 31X1800 = 558 C.F.
 3'D x 14'W x 28'L = 1176 C.F.
 WIER = 4'

TRAP EFFICIENCY:
 02=0.5+5.76=0.31=0.99 CFS
 02 X .01 X 43,560 = 99 SF
 4.35 X .01 X 43,560 = 389 SF
 14'W x 28'L = 392 SF

SEDIMENT BASIN #3
 DRAINAGE AREA = .55 AC.
 REO. STORAGE = 1,55X1800 = 2,790 C.F.
 3'D x 35'W x 65'L = 6,825 C.F.
 WIER = 6'

TRAP EFFICIENCY:
 02=0.5+5.76=1.55=4.46 CFS
 02 X .01 X 43,560 = 1,945 SF
 4.46 X .01 X 43,560 = 1,945 SF
 33'W x 60'L = 1,980 SF



- LEGEND**
- CLEAR WATER DIVERSION
 - SILT FENCE
 - CLEARING LIMITS
 - TREE PROTECTION FENCE
 - TEMPORARY DIVERSION
 - INLET PROTECTION
 - SEDIMENT BASIN
 - ROCK CHECK DAM
 - TEMPORARY BERM

Seeded Preparation:
 1. Chisel compacted areas and spread topsoil three inches deep over adverse soil conditions, if available.
 2. Rip the entire area to six inches deep.
 3. Remove all loose rock, roots and other obstructions leaving surface reasonably smooth and uniform.
 4. Apply agricultural lime, fertilizer on dispersephosphate uniformly and mix with soil (see mixture).
 5. Continue tillage until a well-pulverized, firm secondary uniform seedbed is prepared four to six inches deep.
 6. Seed on a freshly prepared seedbed and cover seed tightly with seeding equipment or cultipack.
 7. Mutch with straw immediately after seeding and monitor much seeded areas and make necessary repairs of seedbeds within the planting season, if possible. If stand should be over 50% damaged, re-establish following the original lime, fertilizer and seeding rates.
 8. Consult ERS Environmental Engineers on maintenance treatment and fertilization after planting.
 9. Fertilizer - 10-10-10 Analysis @ 900 lbs/acre
 Superphosphate - 500 lbs/acre @ 20% analysis
 Mulch - 2 Tons (+/- 80 Bales) Straw/acre
 *Apply Agricultural Limestone - 2 tons/acre
 *Apply Emulsified Asphalt @ 300 gals/acre

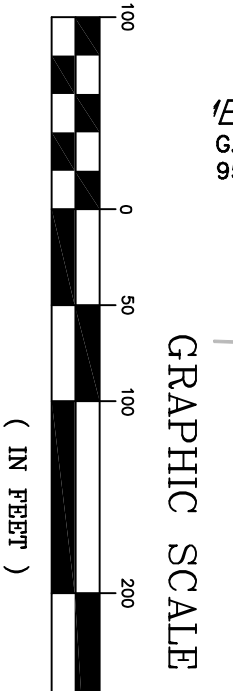
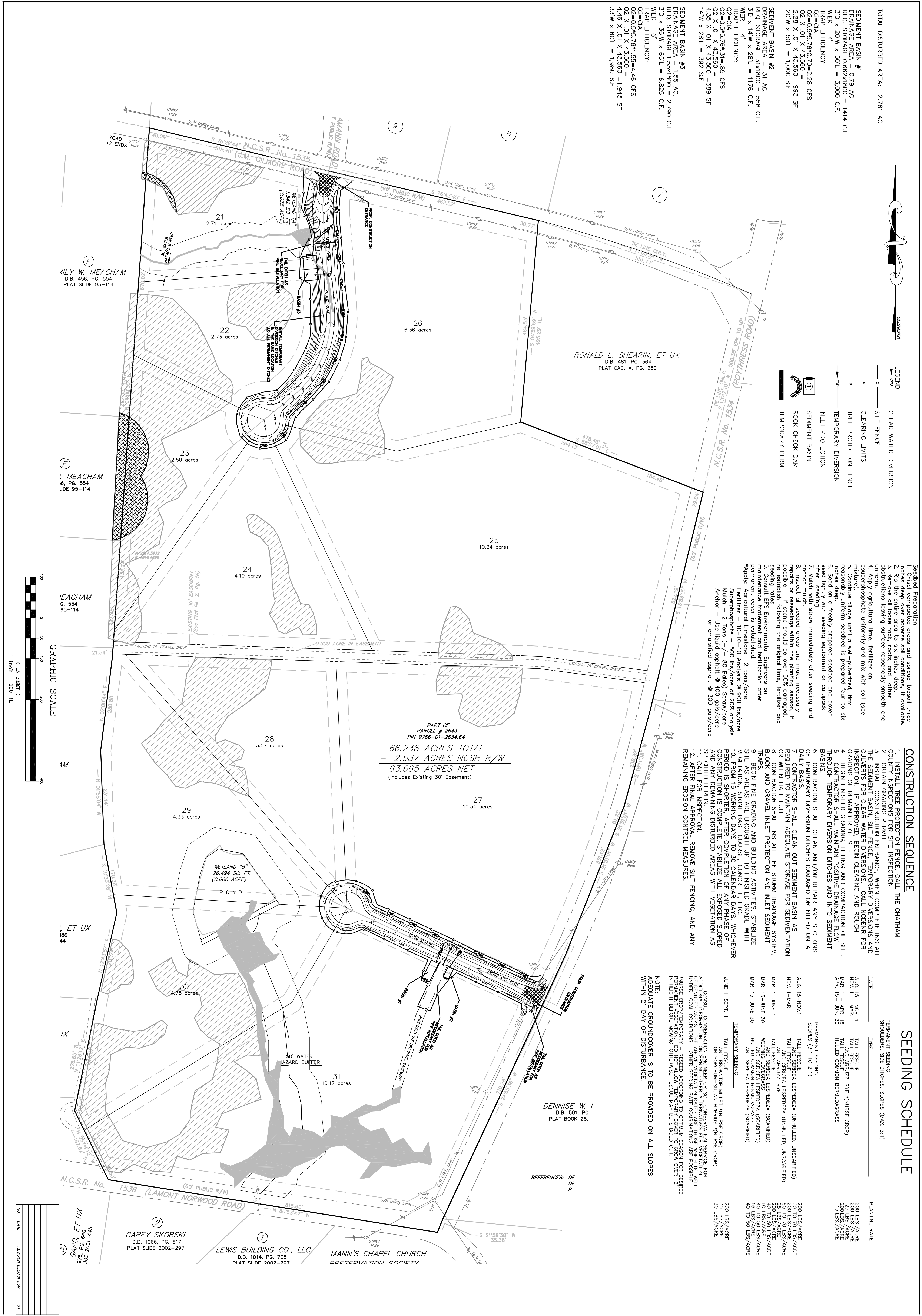
CONSTRUCTION SEQUENCE

1. INSTALL TREE PROTECTION FENCE. CALL THE CHATHAM COUNTY INSPECTOR FOR SITE INSPECTION.
2. OBTAIN GRADING PERMIT.
3. INSTALL CONSTRUCTION ENTRANCE. WHEN COMPLETE INSTALL THE SEDIMENT BASIN, SILT FENCE, TEMPORARY DIVERSIONS AND CULVERTS FOR CLEAR WATER DIVERSIONS. CALL NCDENR FOR INSPECTION. IF APPROVED, BEGIN CLEARING AND ROUGH GRADING OF REMAINDER OF SITE.
4. BEGIN FINISHED GRADING, FILLING AND COMPACTION OF SITE.
5. THROUGH TEMPORARY DIVERSION DITCHES AND INTO SEDIMENT BASINS.
6. CONTRACTOR SHALL CLEAN AND/OR REPAIR ANY SECTIONS OF TEMPORARY DIVERSION DITCHES DAMAGED OR FILLED ON A DAILY BASIS.
7. CONTRACTOR SHALL CLEAN OUT SEDIMENT BASIN AS REQUIRED TO MAINTAIN ADEQUATE STORAGE FOR SEDIMENTATION OR WHEN HALF FULL.
8. CONTRACTOR SHALL INSTALL THE STORM DRAINAGE SYSTEM, BLOCKS AND GRAVEL INLET PROTECTION AND INLET SEDIMENTATION.
9. BEGIN FINE GRADING AND BUILDING ACTIVITIES. STABILIZE VEGETATION, STONE BASE COURSE, CONCRETE, ETC.
10. FROM 15 WORKING DAYS TO 30 CALENDAR DAYS, WHICHEVER PERIOD IS SHORTER, AFTER COMPLETION OF ANY PHASE OF CONSTRUCTION IS COMPLETE, STABILIZE ALL EXPOSED SLOPED AND ANY REMAINING DISTURBED AREAS WITH VEGETATION AS SPECIFIED HEREIN.
11. AFTER FINAL APPROVAL, REMOVE SILT FENCING, AND ANY REMAINING EROSION CONTROL MEASURES.

SEEDING SCHEDULE

DATE	TYPE	PLANTING RATE
AUG. 15 - NOV. 1	TALL FESCUE	200 LBS./ACRE
MAR. 1 - APR. 15	TALL FESCUE	200 LBS./ACRE
MAR. 15 - JUN. 30	HOLLOW COMMON BERMUDAGRASS	20 LBS./ACRE
	PERMANENT SEEDING - SLOPES (3:1 TO 2:1)	
AUG. 15 - NOV. 1	TALL FESCUE	200 LBS./ACRE
NOV. 1 - MAR. 1	TALL FESCUE	60 TO 70 LBS./ACRE
MAR. 1 - APR. 15	TALL FESCUE	200 LBS./ACRE
MAR. 15 - JUN. 30	HOLLOW COMMON BERMUDAGRASS	20 LBS./ACRE
	PERMANENT SEEDING - SLOPES (3:1 TO 2:1)	
AUG. 15 - NOV. 1	TALL FESCUE	200 LBS./ACRE
NOV. 1 - MAR. 1	TALL FESCUE	60 TO 70 LBS./ACRE
MAR. 1 - APR. 15	TALL FESCUE	200 LBS./ACRE
MAR. 15 - JUN. 30	HOLLOW COMMON BERMUDAGRASS	20 LBS./ACRE
	PERMANENT SEEDING - SLOPES (3:1 TO 2:1)	
JUNE 1 - SEPT. 1	TALL FESCUE	200 LBS./ACRE
	PERMANENT SEEDING - SLOPES (3:1 TO 2:1)	

NOTE:
 ADEQUATE GROUND COVER IS TO BE PROVIDED ON ALL SLOPES WITHIN 21 DAY OF DISTURBANCE.



NO.	DATE	REVISION DESCRIPTION	BY

DRAWING No. C3

FILE NAME: C/ PHASE3BASE

JOB NUMBER: 05037

ISSUE DATE: 5/22/06

Erosion Control Plan
 The Cottages at Stonegate Phase 3
 Pittman and Associates
 Baldwin Township, Chatham County, North Carolina

Crowley & Associates, Inc.
 Professional Engineers
 1906 South Main Street, Suite 122
 Wake Forest, North Carolina 27587
 919-562-8860

