TEMPORARY SEDIMENT TRAP – WEST

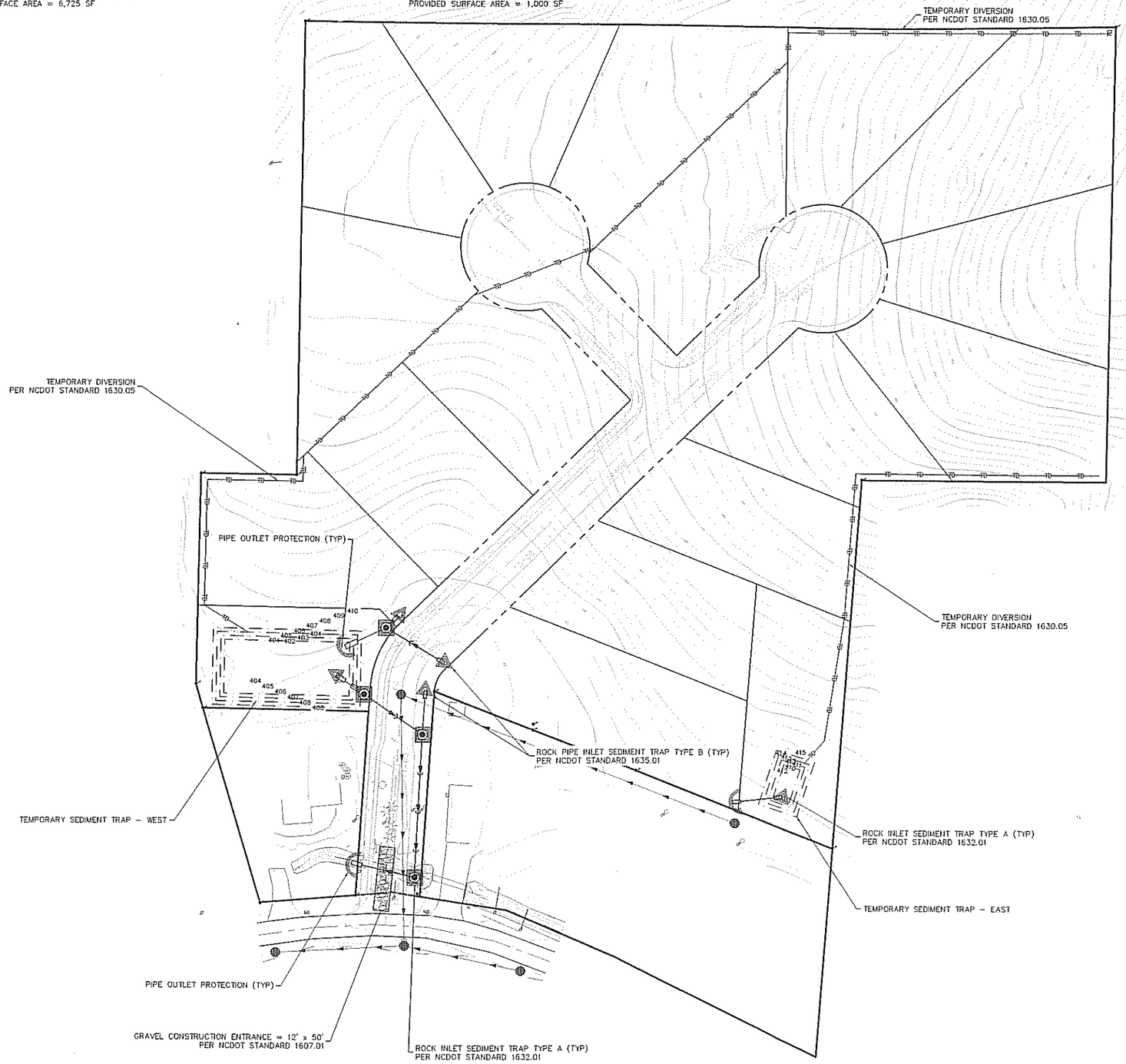
REQUIRED VOLUME = 3600 CF PER ACRE DRAINED = (3600 CF) X (6.07 AC) = 21,834 CF
PROVIDED VOLUME = SURFACE AREA X DEPTH = (6,725 SF) X (3.5 FT) = 23,538 CF

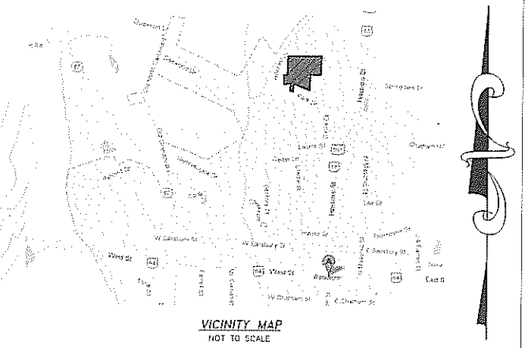
REQUIRED SURFACE AREA = 435 SF PER CFS OF Q_{10} = (435) X (15.42 CFS) = 6,708 SF
Q_{10} = C_{10}A = (0.50) X (5.08 IN/HR) X (6.07 AC) = 15.42 CFS
PROVIDED SURFACE AREA = 6,725 SF

TEMPORARY SEDIMENT TRAP – EAST

REQUIRED VOLUME = 3600 CF PER ACRE DRAINED = (3600 CF) X (0.90 AC) = 3,240 CF
PROVIDED VOLUME = SURFACE AREA X DEPTH = (1,000 SF) X (3.5 FT) = 3,500 CF

REQUIRED SURFACE AREA = 435 SF PER CFS OF Q_{10} = (435) X (2.29 CFS) = 996 SF
Q_{10} = C_{10}A = (0.50) X (5.08 IN/HR) X (0.90 AC) = 2.29 CFS
PROVIDED SURFACE AREA = 1,000 SF





VICINITY MAP
NOT TO SCALE

NOTES:

1. PROJECT IS LOCATED IN THE CAPE FEAR RIVER BASIN AND IS SUBJECT TO THE JORDAN LAKE RULES.

2. TOTAL DISTURBED AREA IS APPROXIMATELY 8 ACRES.

3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF PITTSBORO AND NCDOT STANDARDS.

4. THE PROJECT WILL MEET ALL OF THE REQUIREMENTS RELATIVE TO BEST MANAGEMENT PRACTICES AND ENGINEERED STORMWATER CONTROL STRUCTURES AS REQUIRED BY NCDENR DEPARTMENT OF LAND QUALITY, NCDENT DEPARTMENT OF WATER QUALITY AND THE TOWN OF PITTSBORO.

5. TEMPORARY DIVERSION DITCHES ARE TO BE MAINTAINED DAILY DURING CONSTRUCTION AS GRADING ACTIVITIES CONTINUE. DIVERSION DITCHES SHOWN ON THE PLAN ARE THE MINIMUM REQUIRED.

6. PERMANENT GROUND COVER IS REQUIRED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS, WHICHEVER IS SHORTER.

7. TOPSOIL AND SUBSOIL STOCKPILE LOCATIONS SHALL BE IDENTIFIED ONSITE AS NEEDED.

8. THE STREET IN FRONT OF THE PROJECT SHALL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.

9. CUT AND FILL SLOPES THAT ARE 2:1 OR GREATER SHALL BE STABILIZED WITH A SUITABLE PLANTINGS AND SLOPE RETENTION DEVICES. SLOPES 3:1 OR GREATER MUST BE STABILIZED WITH VEGETATION THAT REQUIRES MINIMAL MAINTENANCE.

CONSTRUCTION SEQUENCE:

1. INSTALL CONSTRUCTION ENTRANCE.

2. INSTALL TEMPOARARY SEDIMENT TRAPS.

3. INSTALL TEMPORARY DIVERSION AND SILT FENCING. GRADE ONLY AS NECESSARY TO INSTALL EROSION CONTROL DEVICES.
   A. PRIMARY DIVERSIONS SHALL BE MAINTAINED UNTIL THE STORM DRAINAGE PIPING AND ROADWAY DITCHES SERVING THE PERTINENT AREA HAVE BEEN INSTALLED.
   B. RE-ROUTE TEMPORARY DIVERSIONS TO APPROPRIATE DRAINAGE SYSTEM INLETS AS PIPE INSTALLATION PROGRESSES.
   C. DIVERSION MAY BE REMOVED AS FINAL FINISHED GRADES ARE ACHEIVED AND SURFACE IMPROVEMENTS ARE MADE.

4. ROUGH GRADE SITE.

5. CLEAN TEMPORARY SEDIMENT TRAPS WHEN ONE-HALF FULL AND MAINTAIN OTHER DEVICES AS NEEDED.

6. SEED AND MULCH DISTURBED AREA WITHIN 30 DAYS AFTER ANY PHASE OF GRADING.

7. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

8. REMOVE EROSION CONTROL MEASURES AND STABILIZE ALL AREAS.

EDR ENGINEERING
4900 WATERS EDGE DRIVE, SUITE 170
RALEIGH, NORTH CAROLINA 27606-2406
PH: (919)747-3012 FAX: (919)324-6614
FIRM LICENSE #C-3325

46 HOURS BEFORE YOU DIG CALL ONE CALL 811 OR 1.800.632.4949 (TOLL FREE)

CLIENT: Triangle Construction Group, Inc.

EROSION CONTROL PLAN

Kensington Park

TOWN OF PITTSBORO
CHATHAM COUNTY
NORTH CAROLINA

REVISED

DATE: 02-27-13
DRAWN BY: RMS
CHECKED BY:
0 20 40
FEK:
CHF:
SCALE HOR 1"=40 FT.
VER 1"= FT.

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8584