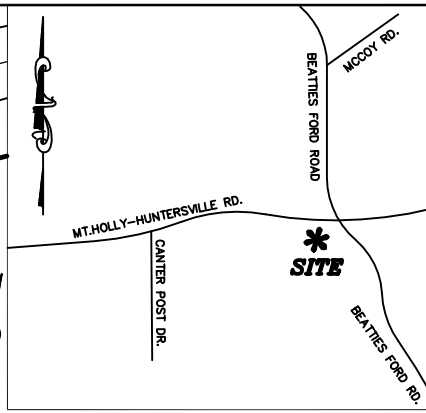
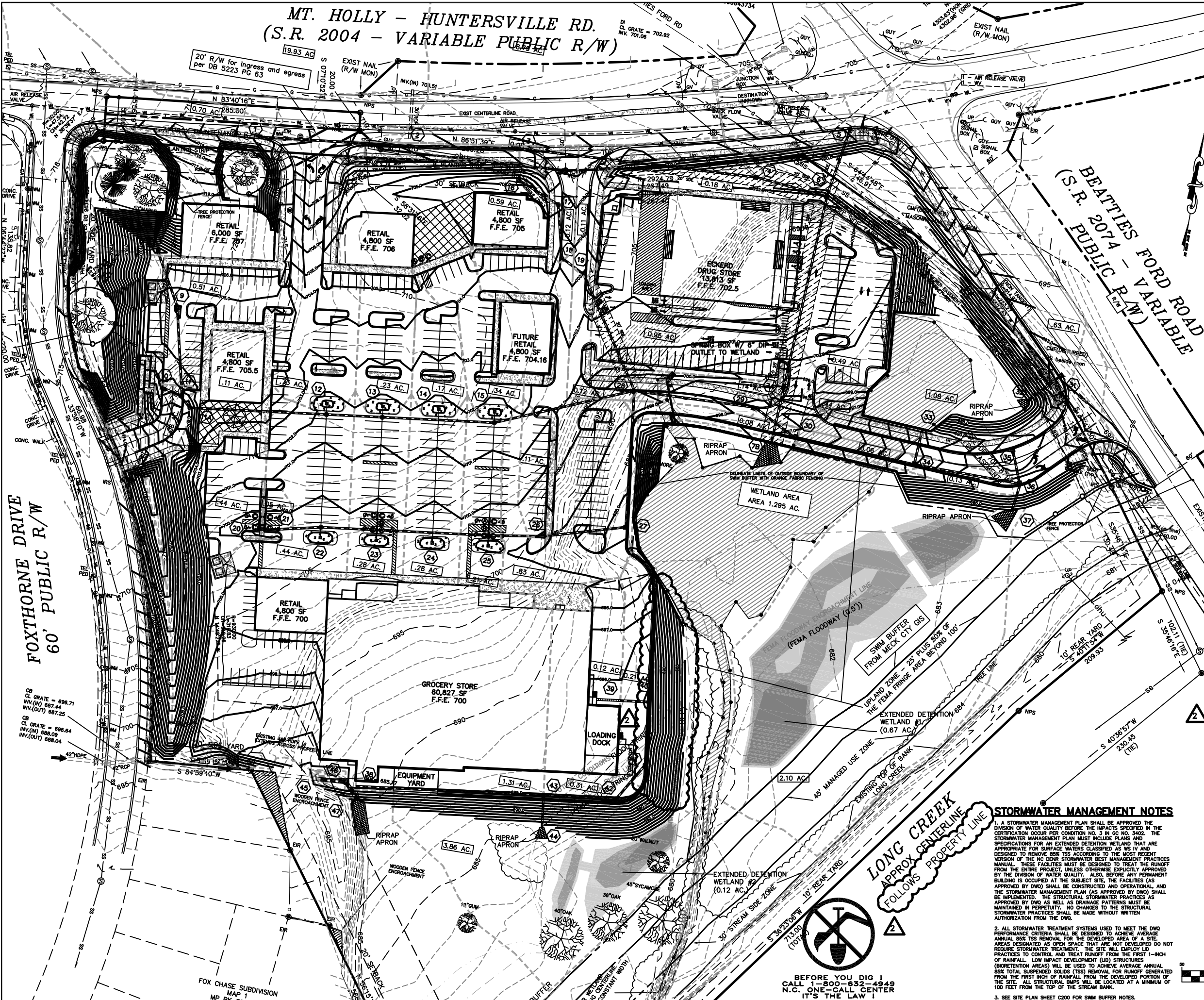


MT. HOLLY - HUNTERSVILLE RD.
(S.R. 2004 - VARIABLE PUBLIC R/W)



VICINITY MAP
(NOT TO SCALE)

GRADING NOTES

- REFER TO THE SITE PLAN FOR RELATED NOTES.
- ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.
- ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
- ALL FILL TO BE COMPACTED TO 95% A.A.S.H.T.O. STANDARD COMPACTION. REFER TO THE SOILS REPORT FOR SITE PREPARATION, GRADING AND FILL REQUIREMENTS.
- THE SITE CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION INDICATED TO REMAIN AND SHALL MAINTAIN ALL TREE PROTECTION BARRICADES. SEE LANDSCAPE PLAN FOR ADDITIONAL NOTES.
- THE CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
- THE PROPOSED CONTOURS SHOWN IN DRIVES, PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS-SECTION DATA TO ESTABLISH CORRECT SUB-BASE OR AGGREGATE GRADE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL IN DENUDED AREAS AND ESPECIALLY WHEN THE CONSTRUCTION SEQUENCE REQUIRES ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN 15 WORKING DAYS OR 30 CALENDAR DAYS, WHICHEVER IS SHORTER. ALL OTHER AREAS, 15 WORKING DAYS OR 90 CALENDAR DAYS WHICHEVER IS SHORTER. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
- NO EROSION CONTROL DEVICE MAY BE REMOVED UNTIL THE SITE IS STABILIZED.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ARCHITECT AND ENGINEER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING WITH WORK.
- ALL STORM DRAINAGE SHALL BE RIP RAP WITH EXCEPTION OF STORM DRAINAGE COLLECTING ROOF DRAINAGE AND LOCALIZED YARD DRAINAGE. STORM DRAINAGE COLLECTING ROOF AND YARD DRAINAGE SHALL BE 4" OR 6" PVC WITH DRAIN BASINS AS PER ADVANCED DRAINAGE SYSTEMS (ADS) SPECIFICATIONS OR EQUIVALENT.
- COMPACTION AND PLACEMENT OF FILL MATERIAL SHALL BE PER SOILS REPORT.
- COORDINATE DOWN SPOUT AND FOUNDATION DRAIN LOCATIONS WITH ARCHITECTURAL PLANS.
- ANY GRADING DONE OFF SITE SHALL ONLY BE UNDERTAKEN AFTER WRITTEN PERMISSION IS GRANTED BY THE PROPERTY OWNER.
- ROOF DRAINS AND AREA DRAINS FROM THE EXISTING BUILDING SHALL BE CONNECTED TO THE NEW STORM DRAINAGE SYSTEM.
- CONNECTION OF ROOF DRAIN PIPE TO DOWN SPOUTS SHALL BE PVC CONNECTORS. GENERAL CONTRACTOR IS TO CONSULT WITH ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. CONNECTION OF ROOF PIPE TO STORM DRAINAGE STRUCTURE SHALL BE ABOVE TOP OF ANY STORM SEWER PIPE.
- MINIMUM SLOPE ON ROOF DRAINAGE PIPE IS 1.00%.
- SPOT ELEVATIONS AT CURBS REFLECT BOTTOM OF CURB.
- ROOF DRAINS AND FLOOR DRAINS FROM THE EXISTING BUILDING SHALL BE UNCOVERED TO DETERMINE DIRECTION OF FLOW PRIOR TO THE INSTALLATION OF THE STORM DRAINAGE SYSTEM. THE STORM DRAINAGE SYSTEM SHOWN ATTEMPTS TO PROVIDE PROTECTION TO LOCATIONS AND DEPTHS TO SERVE THE EXISTING BUILDING DRAINS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF EXCAVATIONS REVEAL ADDITIONAL DRAINS OR DRAIN DEPTHS THAT WILL NOT BE ACCOMMODATED BY THIS DESIGN PRIOR TO CONSTRUCTION.
- SEE SHEET C301 FOR STORM DRAINAGE DESIGN DATA.
- HIGH DENSITY POLYETHYLENE (HDPE) STORM DRAINAGE PIPE INSTALLED WITHIN EXISTING OR PROPOSED PUBLIC STREET RIGHT-OF-WAY MUST BE APPROVED BY THE CITY'S INSPECTOR PRIOR TO ANY BACKFILL BEING PLACED. BACKFILL MATERIAL MUST BE APPROVED BY THE CITY INSPECTOR PRIOR TO PLACEMENT OF MATERIAL WITHIN THE PUBLIC STREET RIGHT-OF-WAY.
- THE 0.1' COMMUNITY ENROACHMENT LINE MUST BE MARKED AND MAINTAINED ON SITE UNTIL FINAL GRADING IS COMPLETED. ANY CONSTRUCTION OR USE WITHIN AREAS DENUDED AS 0.1' FLOODWAY ENROACHMENT AREA IS SUBJECT TO RESTRICTIONS OF THE CITY OF CHARLOTTE AND MECKLENBURG COUNTY.

DENUDED AREA

15.18 ACRES

SOILS REPORT

GRADING, DENUDED, COMPACTION OF SOIL AND PAVEMENT SECTIONS SHALL BE PER GEOTECHNICAL REPORT PREPARED BY EGS, PROJECT NUMBER M2546, DATED JANUARY 14, 2003.

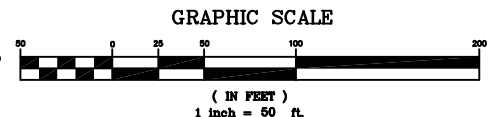
GENERAL NOTES

- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN THE CONSTRUCTION SEQUENCE REQUIRES ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN 15 WORKING DAYS OR 30 CALENDAR DAYS, WHICHEVER IS SHORTER. ALL OTHER AREAS, 15 WORKING DAYS OR 90 CALENDAR DAYS WHICHEVER IS SHORTER. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
- ANY STORM DRAINAGE STRUCTURES LOCATED WITHIN THE RIGHT OF WAY SHALL BE TO NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- SEE SHEET C400 FOR OTHER SEEDING AND EROSION CONTROL NOTES.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL AND CMLD STANDARDS.
- ALL DOWNSPOUTS TO 4" PVC AT 1.00% UNLESS OTHERWISE NOTED.
- SEALED RETAINING WALL DESIGNS SHALL BE SUBMITTED TO THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.

STORMWATER MANAGEMENT NOTES

- A STORMWATER MANAGEMENT PLAN SHALL BE APPROVED THE DESIGN WATER QUALITY BEFORE THE IMPACTS SPECIFIED IN THE CERTIFICATION OCCUR PER CONDITION NO. 3 IN GC NO. 3402. THE STORMWATER MANAGEMENT PLAN MUST INCLUDE PLANS AND SPECIFICATIONS FOR AN EXTENDED DETENTION WETLAND THAT ARE APPROPRIATE FOR SURFACE WATERS CLASSIFIED AS WS IV AND DESIGNED TO REMOVE BOX TSS ACCORDING TO THE MOST RECENT VERSION OF THE NC DEER STORMWATER BEST MANAGEMENT PRACTICES MANUAL. THESE FACILITIES MUST BE DESIGNED TO TREAT THE RUNOFF FROM THE ENTIRE PROJECT, UNLESS OTHERWISE EXPRESSLY APPROVED BY THE DIVISION OF WATER QUALITY. ALSO, BEFORE ANY PERMANENT BUILDING IS OCCUPIED AT THE SUBJECT SITE, THE FACILITIES (AS APPROVED BY DWO) SHALL BE CONSTRUCTED AND OPERATIONAL, AND THE STORMWATER MANAGEMENT PLAN (AS APPROVED BY DWO) SHALL BE IMPLEMENTED. THE STRUCTURAL STORMWATER PRACTICES AS APPROVED BY DWO AS WELL AS DRAINAGE PATTERNS MUST BE MAINTAINED IN PERPETUITY. NO CHANGES TO THE STRUCTURAL STORMWATER PRACTICES SHALL BE MADE WITHOUT WRITTEN AUTHORIZATION FROM THE DWO.
- ALL STORMWATER TREATMENT SYSTEMS USED TO MEET THE DWO PERFORMANCE CRITERIA SHALL BE DESIGNED TO ACHIEVE AVERAGE ANNUAL 85% TSS REMOVAL FOR THE DEVELOPED AREA OF A SITE. AREAS DESIGNATED AS OPEN SPACE THAT ARE NOT DEVELOPED DO NOT REQUIRE STORMWATER TREATMENT. THE SITE WILL EMPLOY LD PRACTICES TO CONTROL AND TREAT RUNOFF FROM THE FIRST 1-INCH OF RAINFALL. LOW IMPACT DEVELOPMENT (LID) STRUCTURES (BIORETENTION AREAS) WILL BE USED TO ACHIEVE AVERAGE ANNUAL 85% TOTAL SUSPENDED SOLIDS (TSS) REMOVAL FOR RUNOFF GENERATED FROM THE FIRST INCH OF RAINFALL FROM THE DEVELOPED PORTION OF THE SITE. ALL STRUCTURAL SHIPS WILL BE LOCATED AT A MINIMUM OF 100 FEET FROM THE TOP OF THE STREAM BANK.
- SEE SITE PLAN SHEET C200 FOR SWM BUFFER NOTES.

BEFORE YOU DIG I
CALL 800-632-4949
N.C. ONE-CALL CENTER
IT'S THE LAW!



| DATE | DESCRIPTION |
|----------|------------------------------------|
| 05-23-05 | 2- BUILDING PERMIT REVIEW COMMENTS |

JDH CAPITAL

MEADE GUNDELL
ENGINEERING & SURVEYING, P.C.
1610-A West Columbia Avenue
Columbia, N.C. 28031
704-666-7290 704-666-7291 (fax)

| DATE |
|----------|
| 09/01/04 |

MT. HOLLY-HUNTERSVILLE ROAD
8101 MT. HOLLY-HUNTERSVILLE ROAD
CHARLOTTE, NC

GRADING AND DRAINAGE PLAN

| | |
|------------|--------------|
| JOB NUMBER | SHEET NUMBER |
| 654.20 | C300 |