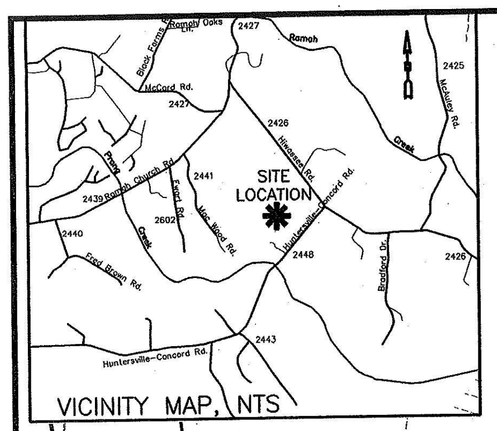


VICINITY MAP, NTS

NAME OF DEVELOPMENT – THE PAVILION
LOT 4
PIN 01924321
15328 PAVILION HILL CIRCLE
HUNTERSVILLE, NORTH CAROLINA
WATERSHED – CLARKE
FEMA PANEL 3701580068E , OUTSIDE
ZONED R
OWNER OF RECORD – SIMONINI BUILDERS OF NC
CLIENT – KILIAN–SIMONINI
LOT SIZE – 1.535 ACRES = 66,903.30 SF

DESIGNATED TREE SAVE = (AT TIME OF PLAT RECORDING)	24,174.14 SF
CHANGES TO TREE SAVE AREA	
REMOVED FOR LID MEASURES =	5630.39 SF
ADDED OVER SEPTIC REPAIR FIELD =	6130.00 SF
ADDED IN YARD =	0.00 SF
NET GAIN =	499.61 SF

(NOTE: OWNER IS NOT REQUIRED TO ADD ADDITIONAL TREE SAVE AREA, ADDITIONAL AMENDMENTS REQUIRED SHOULD BE VERIFIED BY AN AS BUILT SURVEY, ALL CLEARING LIMITS SHALL BE CLEARLY MARKED PRIOR TO BEGINNING CLEARING AND OR CONSTRUCTION)

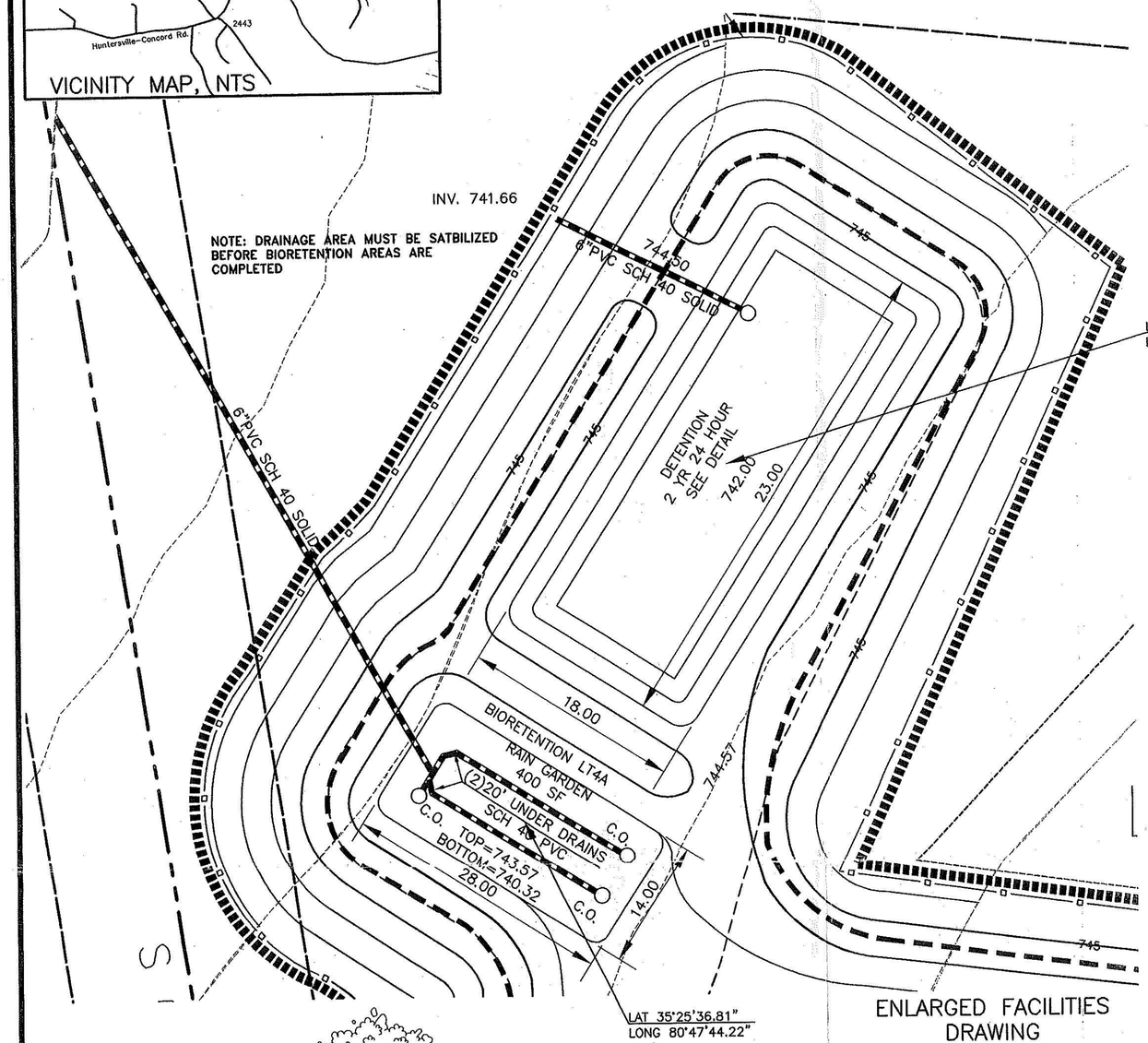
IMPERVIOUS AREA CALCULATION

HOUSE	4,542.40 SF
PAVED DRIVEWAY	2,065.54 SF
PAVED SIDEWALK	340.32 SF
POOL AND PAVED DECK	1,500.00 SF
POOL HOUSE	600.00 SF
TOTAL IMPERVIOUS	9,048.26 SF
TOTAL PERCENT IMPERVIOUS THE LOT ACREAGE)	13.52% (WITH RESPECT TO
ACTUAL DRAINAGE AREA (CALCULATION FOR LID AND DETENTION PROVIDED UNDER SEPARATE COVER)	0.66 ACRES

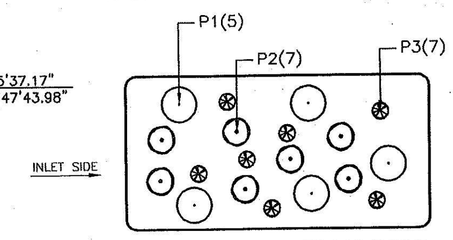
CONSTRUCTION SEQUENCE
1. OBTAIN REQUIRED APPROVALS AND PERMITS, HOLD ANY REQUIRED PRE CONSTRUCTION CONFERENCES
2. MARK CLEARING LIMITS
3. CLEAR MINIMUALLY FOR SILT FENCE INSTALLATION
4. INSTALL SILT FENCE AND DRIVE CULVERT AND CONSTRUCTION ENTRANCE
5. CLEAR AND GRUB SITE
6. LAYOUT AND CONSTRUCT HOME
7. FINISH REQUIRED SITE WORK
8. STABILIZE SITE
9. GRADE AND INSTALL DETENTION BASIN
10. GRADE AND INSTALL RAIN GARDEN

RAIN GARDEN 400 SF/43560 SF/1 AC = 0.009183X2000 = 18.36 EA = 19 EA

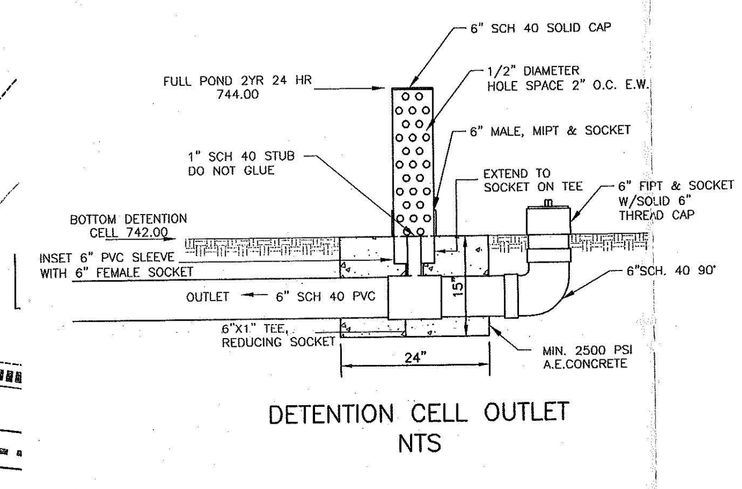
P1 (5 EA) ARONIA MELANOCARPA (BLACK CHOKEBERRY)
P2 (7 EA) CLETHRA ALNIFOLIA (SWEET PEPPERBUSH)
P3 (7 EA) MUHLENBERGIA CAPILLARIS (PINK MUHLY GRASS)
19 EA



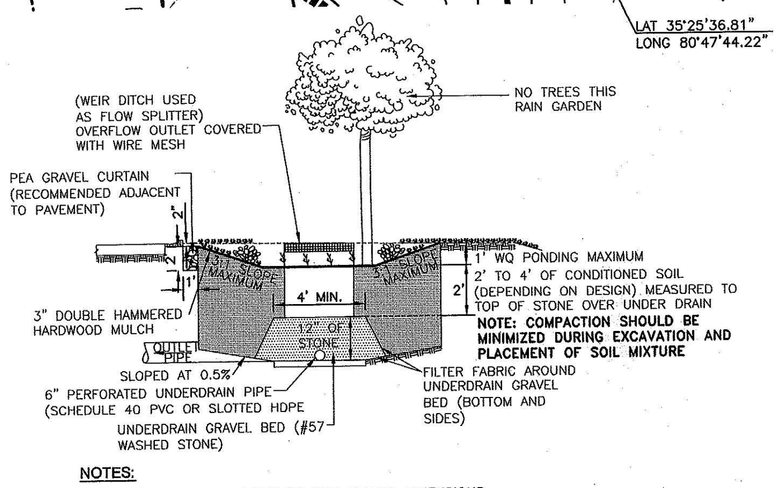
TYPICAL BIORETENTION 85% TSS REMOVAL
NTS



RAIN GARDEN PLANTINGS
NTS



DETENTION CELL OUTLET
NTS



ENLARGED FACILITIES DRAWING
SCALE 1" = 10'

NOTES:
1. EXCAVATE THE RAIN GARDEN TO THE DESIGN DIMENSIONS.
2. PLACE NON–WOVEN FILTER FABRIC (MIRAFI 140 OR EQUAL FILTER FABRIC) ACROSS THE BOTTOM OF THE EXCAVATION IN LOCATIONS FOR UNDERDRAINS.
3. INSTALL UNDERDRAIN SYSTEM ON TOP OF THE FILTER FABRIC IN THE BOTTOM OF THE EXCAVATION. DOUBLE WALL HDPE CORRUGATED PLASTIC PIPE IS RECOMMENDED DUE TO ITS RIGIDITY AND LONG LIFE EXPECTANCY. OTHER PIPE MATERIALS MAY BE SUBSTITUTED AT THE DESIGNER'S DISCRETION AND WITH THE INSPECTOR'S APPROVAL.
4. INSTALL CLEANOUT STANDPIPES AND OUTLETS TO THE UNDERDRAIN. THE CLEANOUT STANDPIPES MUST BE LOCATED AT THE UPPER END OF THE STRUCTURE AND BE CAPPED ABOVE THE WATER LEVEL ELEVATION. THE CLEANOUTS SHOULD CONSIST OF RIGID NON–PERFORATED PVC PIPE, 6 INCHES IN DIAMETER.
5. PLACE #57 WASH STONE (GRAVEL) OVER THE UNDERDRAIN TO A DEPTH OF 12 INCHES AND WIDTH OF 4 FEET.
6. PLACE FILTER FABRIC OVER THE GRAVEL BED TO FULLY ENCLOSE IT ON THE TOP, BOTTOM AND SIDES.
7. BACKFILL WITH A SOIL MIXTURE CONTAINING 80% WHITE MORTAR SAND AND 20% ORGANIC MATERIAL (COMPOST, TOPSOIL) TO A DEPTH OF 2 TO 4 FEET (DEPENDING ON DESIGN) MEASURED FROM THE TOP OF THE STONE OVER THE UNDERDRAIN. SOIL MUST NOT BE INSTALLED UNTIL ALL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED AND APPROVED BY THE INSPECTOR. **NOTE: SOIL MIXTURE MUST BE PLACED IN LIFTS OF 12 INCHES AND WATERED UNTIL WATER FLOWS OUT OF UNDERDRAIN BEFORE PLACING NEXT LAYER.** NO HEAVY EQUIPMENT IS ALLOWED IN THE BASIN AREA.
8. INSTALL VEGETATION AS PER APPROVED PLANS.
9. PLACE MULCH ON TOP OF THE SOIL MIXTURE TO A DEPTH OF 3 INCHES.
10. STABILIZE THE SLOPES DRAINING TO THE RAIN GARDEN WITH GRASS SOD TO A MINIMUM WIDTH OF 14 FEET AND SURROUND THE STRUCTURE WITH SILT FENCE UNTIL DRAINAGE AREA IS FULLY VEGETATED TO PREVENT SEDIMENT FROM CONTAMINATING THE SOIL MIXTURE.
11. AN ENERGY DISPERSION DEVICE IS REQUIRED FOR CONCENTRATED FLOW ENTERING THE STRUCTURE.
12. REFER TO SECTION 4.1 OF THE MECKLENBURG COUNTY BMP DESIGN MANUAL FOR
13. SPECIFIC DESIGN CRITERIA FOR RAIN GARDENS/BIORETENTION SYSTEMS.

MAINTENANCE RESPONSIBILITIES
TOWN OF HUNTERSVILLE WATER QUALITY DESIGN MANUAL 7/26/2007 ED. SECT. 8.5.2.

BMPS THAT ARE CONSTRUCTED ON PRIVATELY–OWNED LAND AND THAT ARE NOT WITHIN A PUBLIC EASEMENT SHALL BE MAINTAINED BY A HOMEOWNERS ASSOCIATION OR THE OWNER OF THE SUBJECT PROPERTY. BMPS THAT ARE CONSTRUCTED ON PUBLIC LAND WITHIN PUBLIC RIGHTS–OF–WAY, AND/OR WITHIN PUBLIC EASEMENTS SHALL BE MAINTAINED BY THE PUBLIC BODY WITH OWNERSHIP/JURISDICTION OF THE SUBJECT PROPERTY. THE FOLLOWING REQUIREMENTS SHALL BE MET FOR ALL BMPS THAT HAVE BEEN CONSTRUCTED ON PRIVATELY–OWNED PROPERTY AND NOT WITHIN A PUBLIC EASEMENT.

A. MAINTENANCE COVENANTS. PRIOR TO THE ISSUANCE OF AN OCCUPANCY PERMIT FOR ANY BUILDING WITHIN A PERMITTED DEVELOPMENT SERVED BY A BMP, THE APPLICANT OR OWNER OF THE BMP SHALL ESTABLISH A FORMAL MAINTENANCE COVENANT APPROVED BY THE MECKLENBURG COUNTY LAND USE AND ENVIRONMENTAL SERVICES AGENCY AND RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WHICH THE OWNER ACKNOWLEDGES THE DUTY OF THE OWNER AND ALL SUBSEQUENT OWNERS OF THE PROPERTY TO MAINTAIN THE BMP IN ACCORDANCE WITH THE TERMS OF THE COVENANT. A MAINTENANCE PLAN AND SCHEDULE SHALL BE INCLUDED AS PART OF THE COVENANT AS WELL AS A MECHANISM FOR FUNDING MAINTENANCE AND REPAIRS. THE MAINTENANCE COVENANT SHALL ALSO SPECIFY THE HOMEOWNERS ASSOCIATION OR SIMILAR LEGAL ENTITY HAS THE POWER TO COMPEL CONTRIBUTIONS FROM RESIDENTS OF A DEVELOPMENT TO COVER THEIR PROPORTIONATE SHARES OF A TYPICAL MAINTENANCE COVENANT. APPENDIX H CONTAINS AN EXAMPLE MAINTENANCE PLAN AND INSPECTION CHECKLISTS.

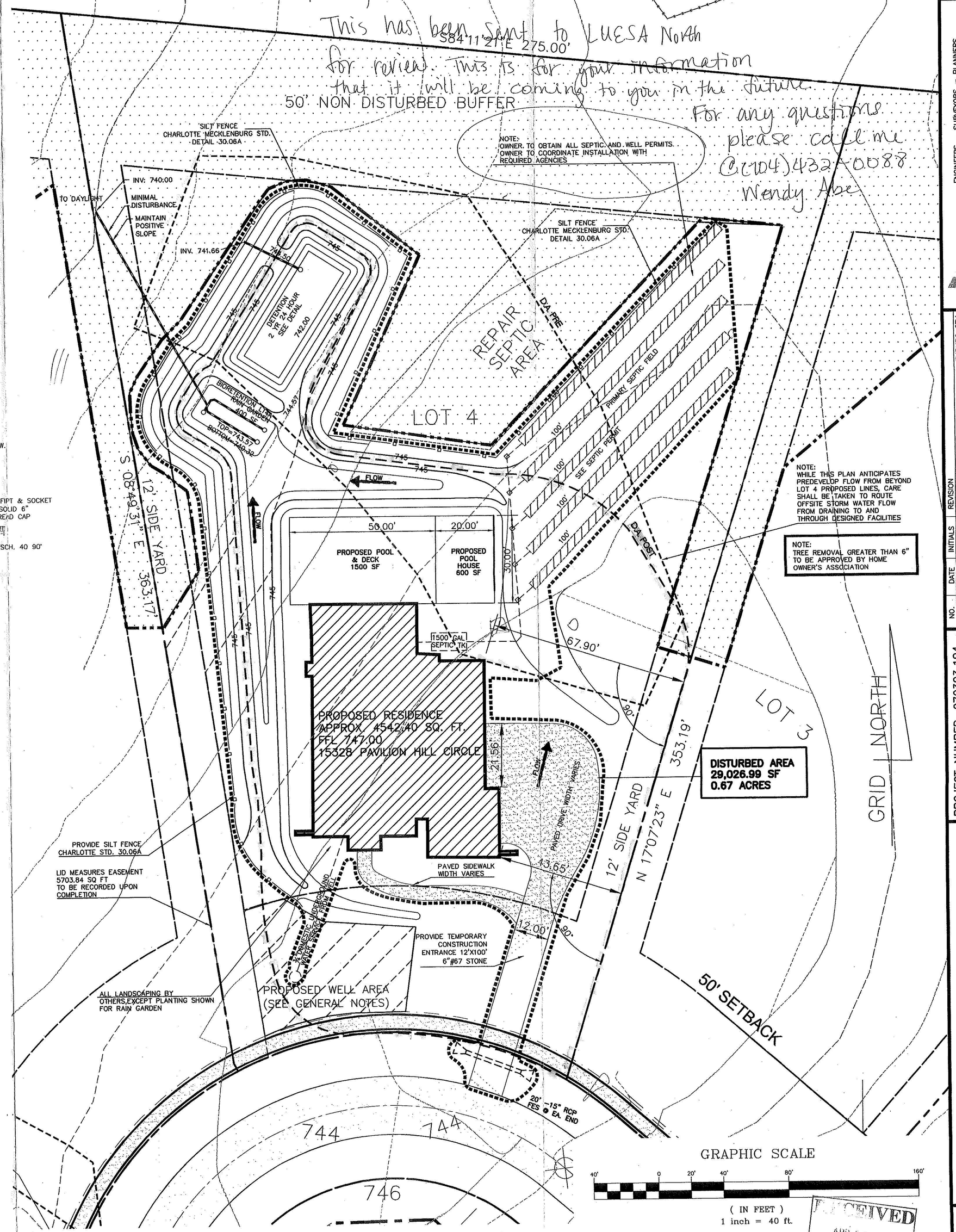
B. REQUIREMENTS FOR THE MAINTENANCE COVENANTS. BMPS SHALL BE INSPECTED AT A MINIMUM OF ANNUALLY BY A QUALIFIED PROFESSIONAL AS DESCRIBED IN THE MAINTENANCE COVENANT. THE PURPOSE OF THIS INSPECTION IS TO IDENTIFY MAINTENANCE AND REPAIR NEEDS TO ENSURE THE LONG–TERM FUNCTIONALITY OF THE BMP. ANY IDENTIFIED MAINTENANCE AND/OR REPAIR NEEDS SHALL BE ADDRESSED IN A TIMELY MANNER. THE INSPECTION AND MAINTENANCE REQUIREMENT MAY BE INCREASED AS DEEMED NECESSARY BY THE MECKLENBURG COUNTY WATER QUALITY PROGRAM (MCWQP) TO ENSURE PROPER FUNCTIONING OF THE BMP.

C. RECORDS OF INSTALLATION AND MAINTENANCE ACTIVITIES. PARTIES RESPONSIBLE FOR THE INSPECTION, OPERATION AND MAINTENANCE OF A BMP SHALL MAINTAIN RECORDS OF THE INSTALLATION OF ALL THE MAINTENANCE AND REPAIRS AND SHALL RETAIN THE RECORDS FOR THE LIFE OF THE BMP. AFTER INSPECTIONS AND MAINTENANCE HAVE BEEN PERFORMED, A COPY OF THE INSPECTION CHECKLIST (SEE APPENDIX H) SHALL BE FORWARDED BY THE OWNER TO MCWQP WITHIN TWO WEEKS OF THE INSPECTION. MCWQP STAFF WILL FILE SUBMITTED DATA BASE TO TRACK INSPECTIONS AND MAINTENANCE PERFORMED. ALL INSPECTION CHECKLISTS ARE TO BE MAILED TO 700 NORTH TRYON STREET, CHARLOTTE, NC 28202, ATTENTION: WATER QUALITY PROGRAM.

WATERING AND MAINTENANCE RESPONSIBILITIES DURING DIFFERENT PHASES OF A PROJECT SHALL GENERALLY BE DEFINED AS FOLLOWS, UNLESS CONTRACTUAL OBLIGATIONS REQUIRE OTHERWISE:
- CONSTRUCTION PHASE: DEVELOPER/BUILDER
- PROJECT ACCEPTANCE: BUILDER
- PROPERTY OWNERSHIP TRANSFER: BUILDER/PROPERTY OWNER
- WARRANTEE PHASE: PROPERTY OWNER
- OPERATION PHASE: PROPERTY OWNER/HOMEOWNERS ASSOCIATION

BOUNDARY SHOWN FOR INFORMATION ONLY, REFER TO RECORDED PLAT FOR ACTUAL LOT DIMENSIONS

Heidi,
This has been sent to LUESA North for review. This is for your information that it will be coming to you in the future. For any questions please call me @ (704) 432-0088
Wendy Abe



GRAPHIC SCALE
40' 0 20' 40' 80' 160'
(IN FEET)
1 inch = 40 ft.

RECEIVED
APR 17 2008

NORTH CAROLINA PROFESSIONAL SEAL L-5163 ENGINEER KEVIN F. REESE

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NO.	DATE:	INITIALS	REVISION
1.	03/11/08	DFR	FIRST SUBMITTAL HUNTERSVILLE, MECKLENBURG CITY
2.	04/15/08	DFR	REVISED ACTUAL DRAINAGE AREA NUMBERS

PROJECT NUMBER: 070303.104
PROJECT MANAGER: DFR
DESIGNED BY: MJM
DRAWN BY: MJM
1" = 20', UNO
DATE: 03/11/08

LOT 4 PAVILION
RESIDENTIAL SITE PLAN – LID MEASURES
15328 PAVILION HILL CIRCLE
SIMONINI BUILDERS OF NC

C100

06036 B-2