SUBDIVISION PLAN REVISION

APPROVED FOR CONSTRUCTION

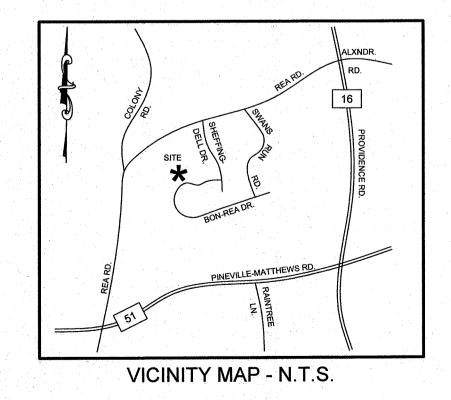
CHARLOTTE, NORTH CAROLINA

PREPARED FOR:

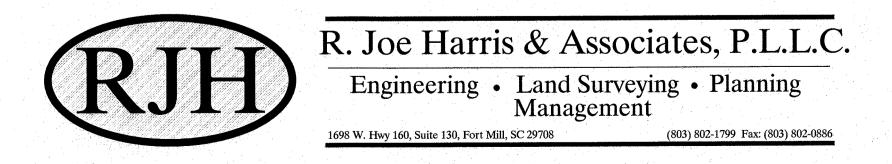
PHIER CREST, LLC

10801 Johnston Road, Sutie 127 Charlotte, NC 28226

August 13, 2014



PREPARED BY





ENGINEERING

URBAN FORESTRY

CDOT

APPROVED

APPROVED

APPROVED

PLAN SHEET INDEX: COVER

SP-1 PRELIMINARY PLAT SP-2 STREET TREE AND PLANTING PLAN SP-3 SIGHT DISTANCE PLAN SITE PLAN DETAILS SP-4 SP-5 SITE PLAN DETAILS SP-6 SITE PLAN DETAILS EC-1 **EROSION CONTROL INITIAL PHASE** EC-2 **EROSION CONTROL FINAL PHASE** EC-3 **EROSION CONTROL DETAILS EROSION CONTROL DETAILS** EC-4 EC-5 **EROSION CONTROL DETAILS** GP-1 GRADING AND STORM DRAINAGE PLAN GP-2 BON REA RD. CROSS SECTIONS RP-1 ROAD PLAN AND PROFILE, STORM DRAIN PROFILE FS-1 FLOOD STUDY DRAINAGE AREA FS-2 FLOOD STUDY CHANNEL CROSS SECTIONS DA-1 STORM DRAINAGE AREA

COVER SHEET



DATE

ISSUED FOR

5/1/14 1st Submittal to City of Charlotte

8/13/14 3rd Submittal to City of Charlotte



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his drawing shall not be used for construction purposes until the seal and signature of the responsible registrant appears on the by the Owner, Owner's Agent or Contractor to the Authority

naving jurisdiction.

Print/Plot Date

P. Murphy P. Murphy B. Pridemore P. Murphy

August 13, 2014 PHIFER CREST, LLC

10801 JOHNSTON ROAD, SUITE 127 CHARLOTTE, NC 28226 P: (980) 406-3818

PHIFER CREST SUBDIVISION PLAN REVISION CHARLOTTE, NC

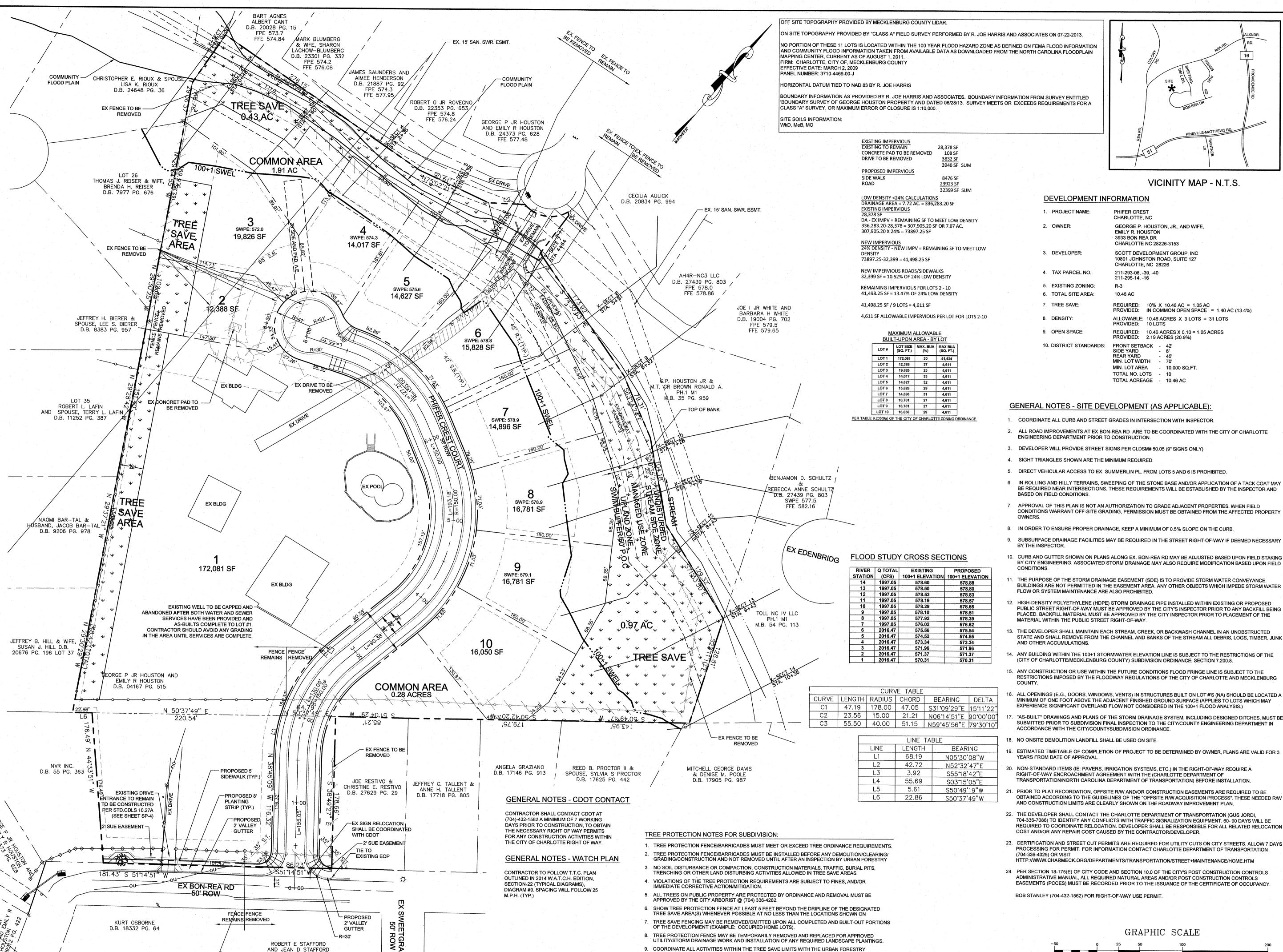
Phifer Crest

COVER SHEET

Drawing Title:

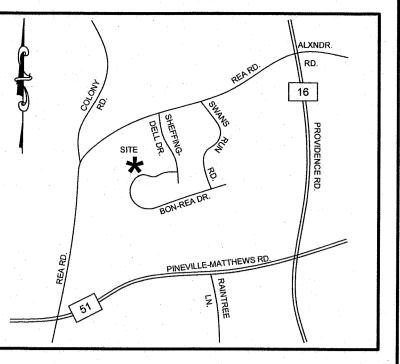
Drawing No. 1816 DWG File Name: 1816 SITE

COVER



D.B. 08690 PG. 437

SPECIALIST, GARY TURNER, AT (704)-517-5664



VICINITY MAP - N.T.S.

DEVELOPMENT INFORMATION

PHIFER CREST

CHARLOTTE, NC GEORGE P. HOUSTON, JR., AND WIFE,

EMILY R. HOUSTON 3933 BON REA DR

CHARLOTTE NC 28226-3153 SCOTT DEVELOPMENT GROUP, INC

10801 JOHNSTON ROAD, SUITE 127 CHARLOTTE, NC 28226 211-293-08, -39, -40

211-295-14, -16

5. EXISTING ZONING:

6. TOTAL SITE AREA: 10.46 AC

REQUIRED: 10% X 10.46 AC = 1.05 AC PROVIDED: IN COMMON OPEN SPACE = 1.40 AC (13.4%) ALLOWABLE: 10.46 ACRES X 3 LOTS = 31 LOTS

PROVIDED: 10 LOTS REQUIRED: 10.46 ACRES X 0.10 = 1.05 ACRES

PROVIDED: 2.19 ACRES (20.9%) 10. DISTRICT STANDARDS: FRONT SETBACK

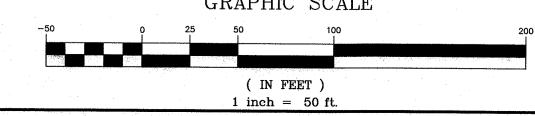
SIDE YARD REAR YARD

MIN. LOT WIDTH MIN. LOT AREA 10,000 SQ.FT TOTAL NO. LOTS - 10 TOTAL ACREAGE - 10.46 AC

GENERAL NOTES - SITE DEVELOPMENT (AS APPLICABLE)

- COORDINATE ALL CURB AND STREET GRADES IN INTERSECTION WITH INSPECTOR.
- 2. ALL ROAD IMPROVEMENTS AT EX BON-REA RD ARE TO BE COORDINATED WITH THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
- 3. DEVELOPER WILL PROVIDE STREET SIGNS PER CLDSM# 50.05 (9" SIGNS ONLY)
- 4. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
- 5. DIRECT VEHICULAR ACCESS TO EX. SUMMERLIN PL. FROM LOTS 5 AND 6 IS PROHIBITED.
- 6. IN ROLLING AND HILLY TERRAINS, SWEEPING OF THE STONE BASE AND/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS. THESE REQUIREMENTS WILL BE ESTABLISHED BY THE INSPECTOR AND BASED ON FIELD CONDITIONS.
- 7. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD RANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERT
- 8. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB.
- 9. SUBSURFACE DRAINAGE FACILITIES MAY BE REQUIRED IN THE STREET RIGHT-OF-WAY IF DEEMED NECESSARY BY THE INSPECTOR.
- 10. CURB AND GUTTER SHOWN ON PLANS ALONG EX. BON-REA RD MAY BE ADJUSTED BASED UPON FIELD STAKING BY CITY ENGINEERING. ASSOCIATED STORM DRAINAGE MAY ALSO REQUIRE MODIFICATION BASED UPON FIELD
- THE PURPOSE OF THE STORM DRAINAGE EASEMENT (SDE) IS TO PROVIDE STORM WATER CONVEYANCE. BUILDINGS ARE NOT PERMITTED IN THE EASEMENT AREA. ANY OTHER OBJECTS WHICH IMPEDE STORM WATER FLOW OR SYSTEM MAINTENANCE ARE ALSO PROHIBITED.
- 12. 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 THE MATERIAL WITHIN THE PUBLIC STREET RIGHT-OF-WAY.
- STATE AND SHALL REMOVE FROM THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS, TIMBER, JUNK AND OTHER ACCUMULATIONS 14. ANY BUILDING WITHIN THE 100+1 STORMWATER ELEVATION LINE IS SUBJECT TO THE RESTRICTIONS OF THE
- (CITY OF CHARLOTTE/MECKLENBURG COUNTY) SUBDIVISION ORDINANCE, SECTION 7.200.8. 15. ANY CONSTRUCTION OR USE WITHIN THE FUTURE CONDITIONS FLOOD FRINGE LINE IS SUBJECT TO THE
- RESTRICTIONS IMPOSED BY THE FLOODWAY REGULATIONS OF THE CITY OF CHARLOTTE AND MECKLENBURG
- EXPERIENCE SIGNIFICANT OVERLAND FLOW NOT CONSIDERED IN THE 100+1 FLOOD ANALYSIS.) "AS-BUILT" DRAWINGS AND PLANS OF THE STORM DRAINAGE SYSTEM, INCLUDING DESIGNED DITCHES, MUST BE SUBMITTED PRIOR TO SUBDIVISION FINAL INSPECTION TO THE CITY/COUNTY ENGINEERING DEPARTMENT IN
- 18. NO ONSITE DEMOLITION LANDFILL SHALL BE USED ON SITE.
- 19. ESTIMATED TIMETABLE OF COMPLETION OF PROJECT TO BE DETERMINED BY OWNER, PLANS ARE VALID FOR 3 YEARS FROM DATE OF APPROVAL.
- NON-STANDARD ITEMS (IE: PAVERS, IRRIGATION SYSTEMS, ETC.) IN THE RIGHT-OF-WAY REQUIRE A RIGHT-OF-WAY ENCROACHMENT AGREEMENT WITH THE (CHARLOTTE DEPARTMENT OF TRANSPORTATION/NORTH CAROLINA DEPARTMENT OF TRANSPORTATION) BEFORE INSTALLATION.
- OBTAINED ACCORDING TO THE GUIDELINES OF THE "OFFSITE RW ACQUISITION PROCESS". THESE NEEDED RW AND CONSTRUCTION LIMITS ARE CLEARLY SHOWN ON THE ROADWAY IMPROVEMENT PLAN. 22. THE DEVELOPER SHALL CONTACT THE CHARLOTTE DEPARTMENT OF TRANSPORTATION (GUS JORDI,
- COST AND/OR ANY REPAIR COST CAUSED BY THE CONTRACTOR/DEVELOPER. 23. CERTIFICATION AND STREET CUT PERMITS ARE REQUIRED FOR UTILITY CUTS ON CITY STREETS. ALLOW 7 DAYS PROCESSING FOR PERMIT. FOR INFORMATION CONTACT CHARLOTTE DEPARTMENT OF TRANSPORTATION
- (704-336-4025) OR VISIT HTTP://WWW.CHARMECK.ORG/DEPARTMENTS/TRANSPORTATION/STREET+MAINTENANCE/HOME.HTM
- 24. PER SECTION 18-175(E) OF CITY CODE AND SECTION 10.0 OF THE CITY'S POST CONSTRUCTION CONTROLS ADMINISTRATIVE MANUAL, ALL REQUIRED NATURAL AREAS AND/OR POST CONSTRUCTION CONTROLS EASEMENTS (PCCES) MUST BE RECORDED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

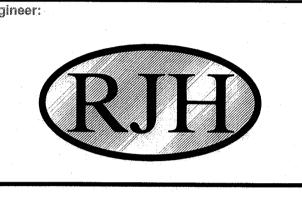
BOB STANLEY (704-432-1562) FOR RIGHT-OF-WAY USE PERMIT



6/27/14 2nd Submittal to City of Charlotte 8/13/14 3rd Submittal to City of Charlotte

ISSUED FOR

5/1/14 1st Submittal to City of Charlotte



R. Joe Harris & Associates, P.L.L.C

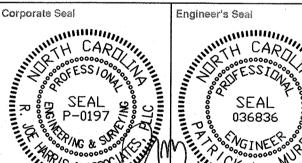
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having jurisdiction



P. Murphy ^o. Murphy partment Manager B. Pridemore P. Murphy

August 13, 2014

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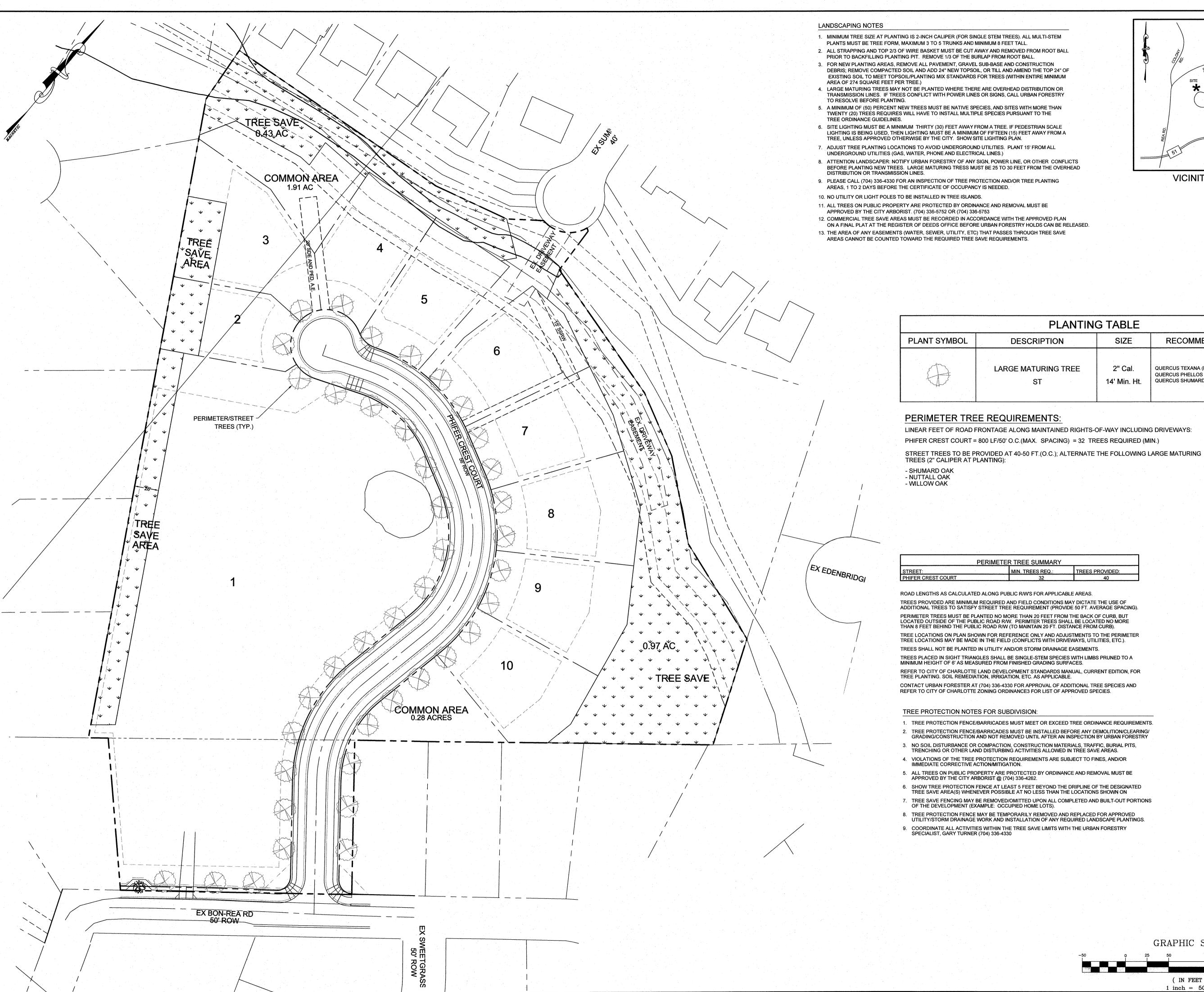
PHIFER CREST SUBDIVISION PLAN REVISION CHARLOTTE, NC

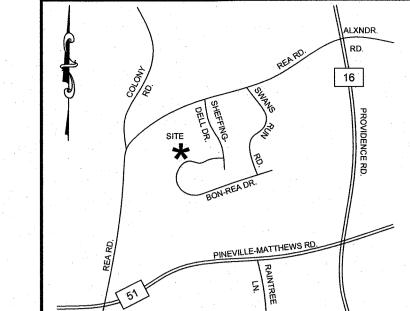
Phifer Crest

IPRELIMINARY PLAT

Drawing Title:

Drawing No. DWG File Name: 1816 SITE





VICINITY MAP - N.T.S.

RECOMMENDED SPECIES

QUERCUS TEXANA (NUTTALL OAK)

(IN FEET)

1 inch = 50 ft.

QUERCUS PHELLOS (WILLOW OAK)

QUERCUS SHUMARDII (SHUMARD OAK)

DATE

ISSUED FOR

5/1/14 1st Submittal to City of Charlotte

6/27/14 2nd Submittal to City of Charlotte

8/13/14 3rd Submittal to City of Charlotte

Call before you dig



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al	Engineer's Seal
CAROLLINA KESSIONA	SEAL
SEAL BS	= 000000 9
2-0197 5 5 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	036836 036836 036836 036836 036836

Project Manager	Drawn
P. Murphy	P. Murphy
Department Manager	Checked
B. Pridemore	P. Murphy
Print/Plot Date	

August 13, 2014

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Phifer Crest

Drawing Title:

DWG File Name:

1816 SITE

STREET TREE AND PLANTING PLAN

Drawing No.

SP-2

TREES SHALL NOT BE PLANTED IN UTILITY AND/OR STORM DRAINAGE EASEMENTS. TREES PLACED IN SIGHT TRIANGLES SHALL BE SINGLE-STEM SPECIES WITH LIMBS PRUNED TO A MINIMUM HEIGHT OF 6' AS MEASURED FROM FINISHED GRADING SURFACES. REFER TO CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL, CURRENT EDITION, FOR TREE PLANTING. SOIL REMEDIATION, IRRIGATION, ETC. AS APPLICABLE.

PLANTING TABLE

TREES PROVIDED:

SIZE

2" Cal.

14' Min. Ht.

DESCRIPTION

LARGE MATURING TREE

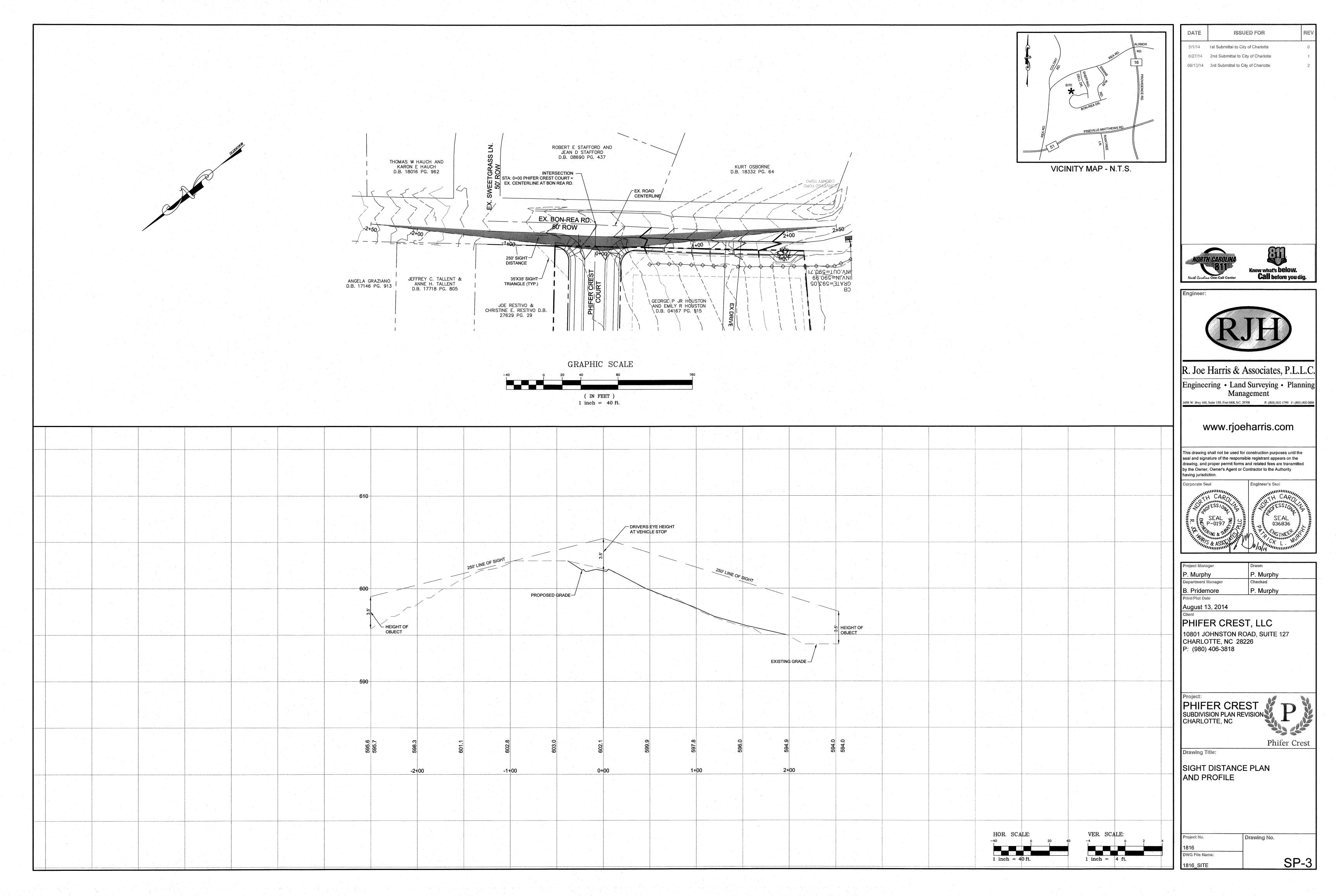
CONTACT URBAN FORESTER AT (704) 336-4330 FOR APPROVAL OF ADDITIONAL TREE SPECIES AND REFER TO CITY OF CHARLOTTE ZONING ORDINANCE3 FOR LIST OF APPROVED SPECIES.

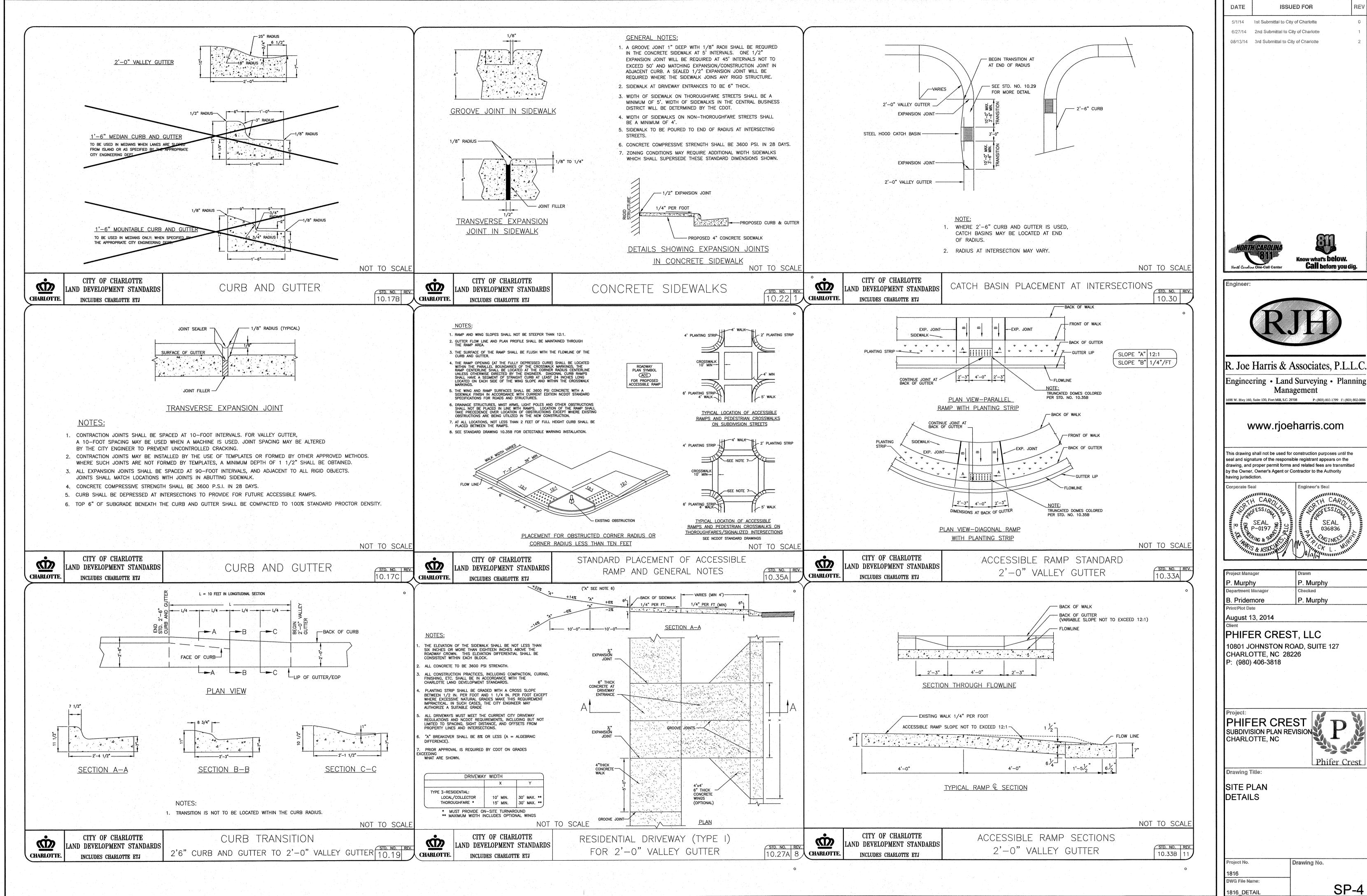
PERIMETER TREE SUMMARY

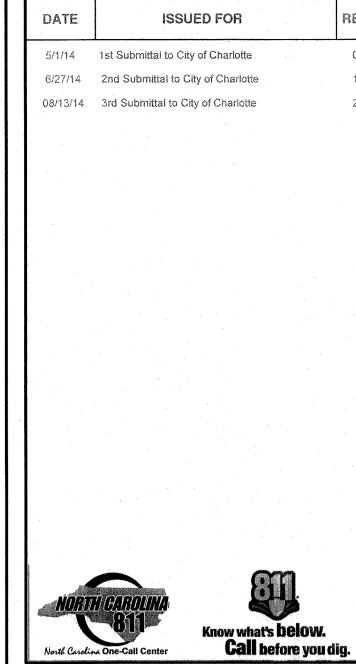
MIN. TREES REQ.:

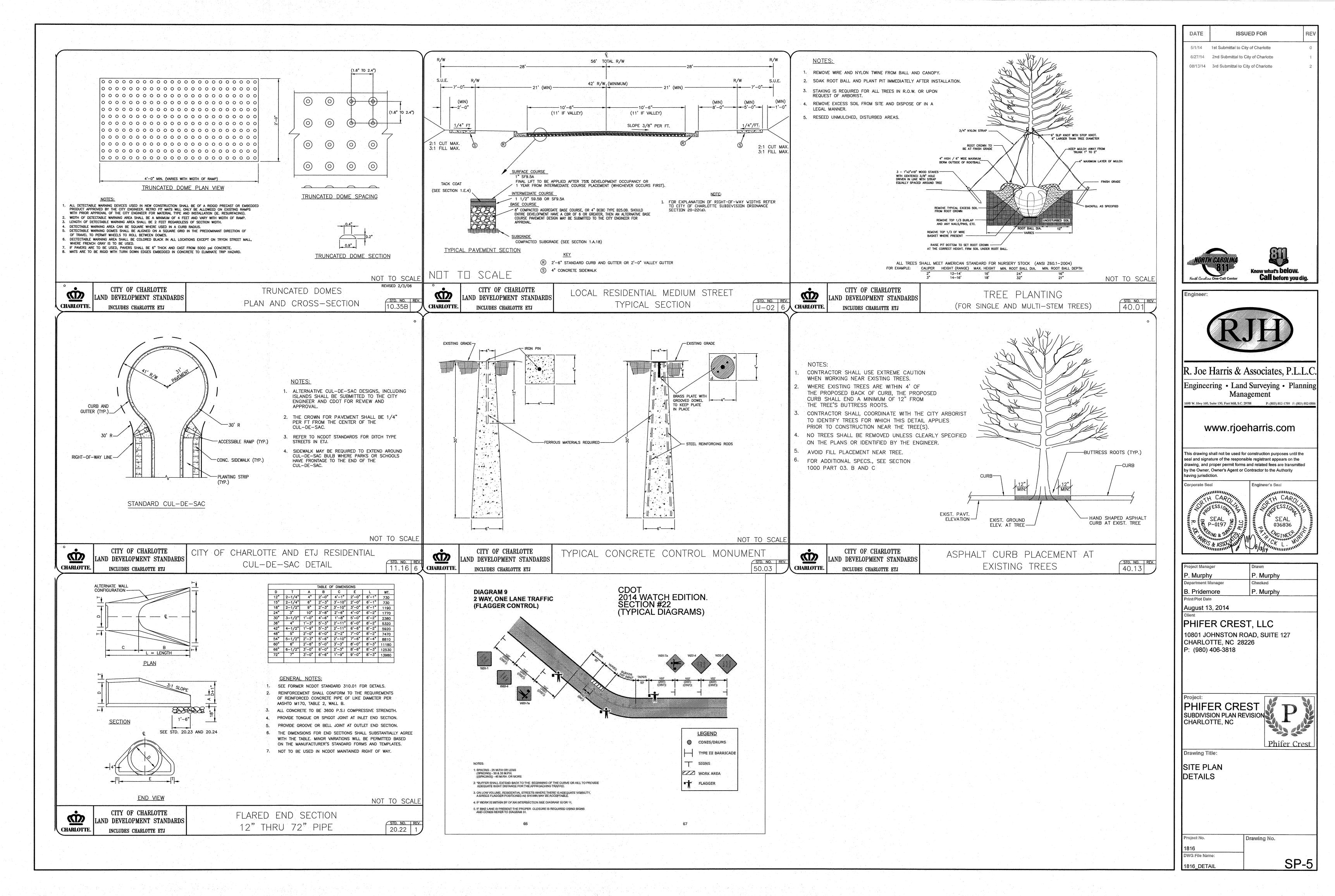
TREE PROTECTION NOTES FOR SUBDIVISION:

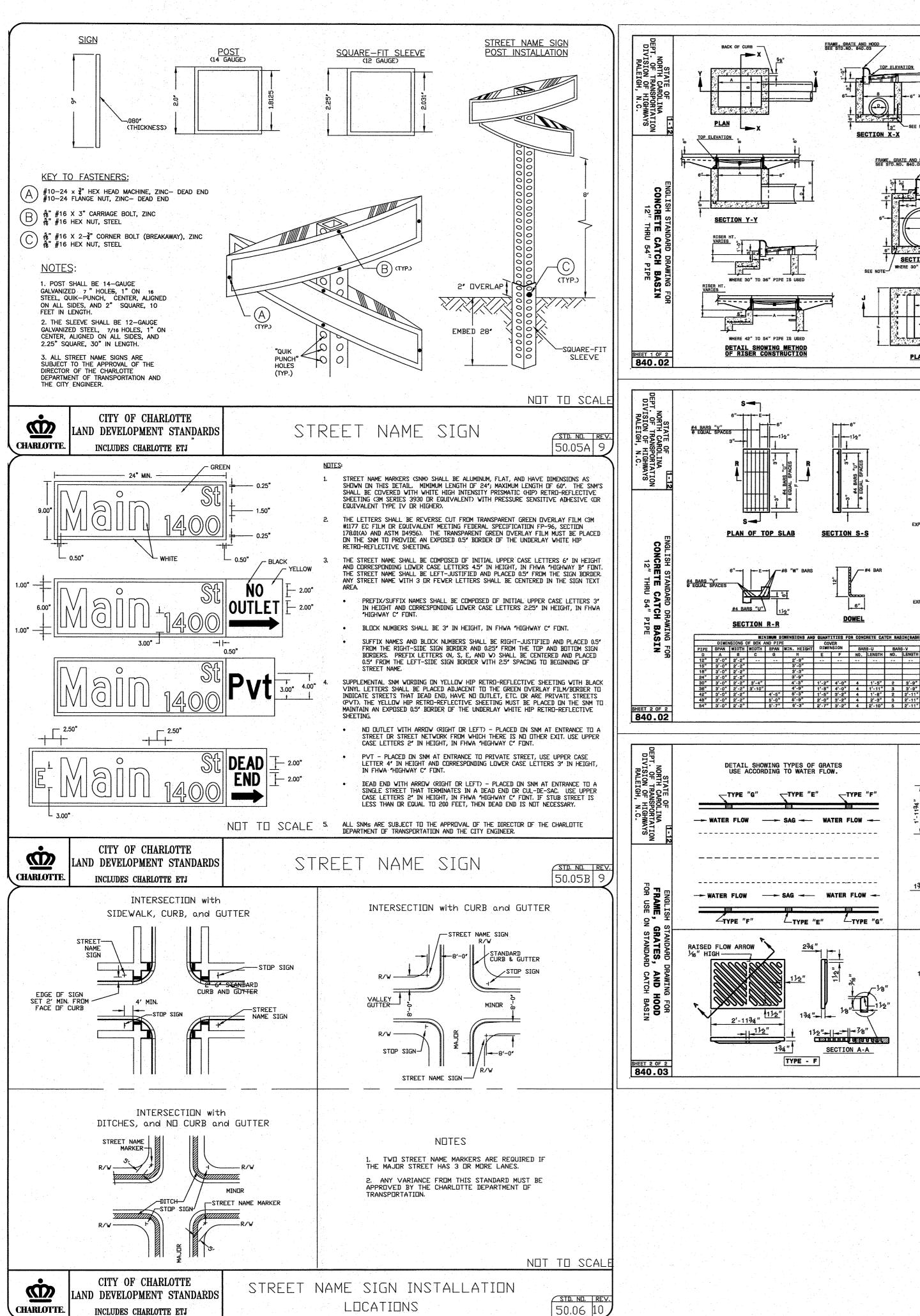
- 1. TREE PROTECTION FENCE/BARRICADES MUST MEET OR EXCEED TREE ORDINANCE REQUIREMENTS.
- 2. TREE PROTECTION FENCE/BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION/CLEARING/ GRADING/CONSTRUCTION AND NOT REMOVED UNTIL AFTER AN INSPECTION BY URBAN FORESTRY 3. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS,
- TRENCHING OR OTHER LAND DISTURBING ACTIVITIES ALLOWED IN TREE SAVE AREAS. 4. VIOLATIONS OF THE TREE PROTECTION REQUIREMENTS ARE SUBJECT TO FINES, AND/OR
- IMMEDIATE CORRECTIVE ACTION/MITIGATION.
- 5. ALL TREES ON PUBLIC PROPERTY ARE PROTECTED BY ORDINANCE AND REMOVAL MUST BE APPROVED BY THE CITY ARBORIST @ (704) 336-4262.
- 6. SHOW TREE PROTECTION FENCE AT LEAST 5 FEET BEYOND THE DRIPLINE OF THE DESIGNATED TREE SAVE AREA(S) WHENEVER POSSIBLE AT NO LESS THAN THE LOCATIONS SHOWN ON
- 7. TREE SAVE FENCING MAY BE REMOVED/OMITTED UPON ALL COMPLETED AND BUILT-OUT PORTIONS OF THE DEVELOPMENT (EXAMPLE: OCCUPIED HOME LOTS).
- 8. TREE PROTECTION FENCE MAY BE TEMPORARILY REMOVED AND REPLACED FOR APPROVED
- UTILITY/STORM DRAINAGE WORK AND INSTALLATION OF ANY REQUIRED LANDSCAPE PLANTINGS.
- 9. COORDINATE ALL ACTIVITIES WITHIN THE TREE SAVE LIMITS WITH THE URBAN FORESTRY

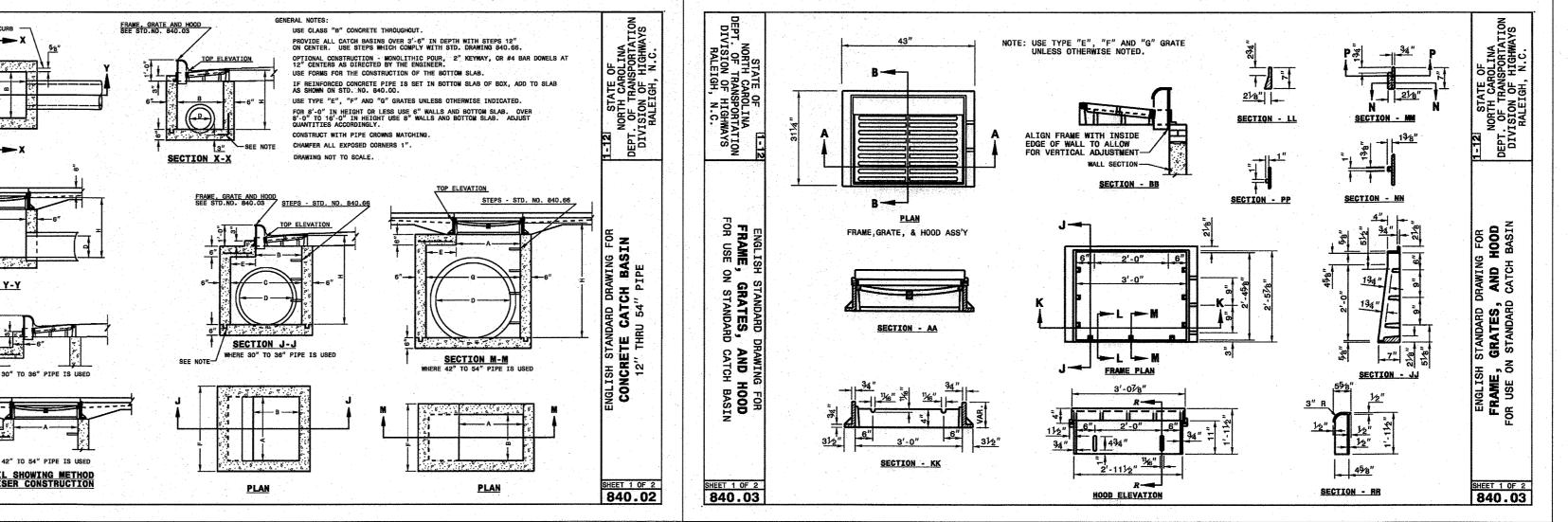












PLAN

ELEVATION

ELEVATION

11/2" - 5/8"

TYPE G

214"

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

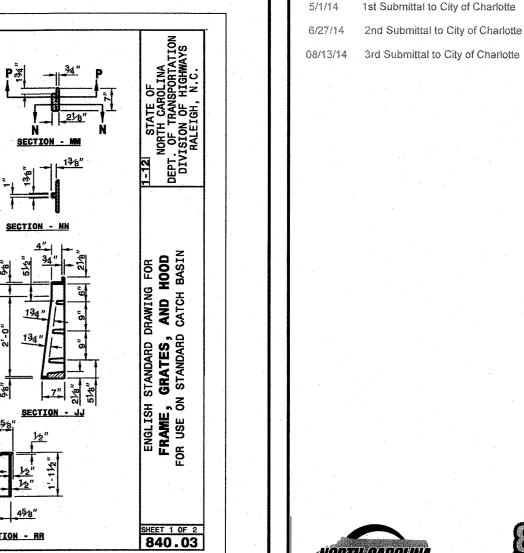
SECTION B-B

Managada di napa

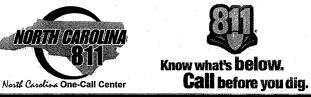
7/8" SECTION A-A

SHEET 2 OF 2 840.03

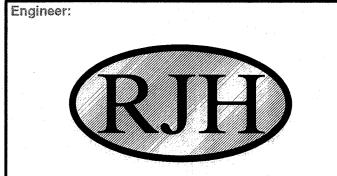
CURB AND GUTTER WITH CATCH BASIN ON STEEP GRADES



DATE



ISSUED FOR

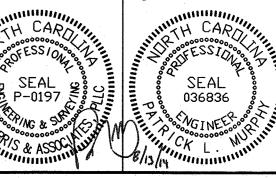


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². Murphy P. Murphy epartment Manager B. Pridemore P. Murphy Print/Plot Date

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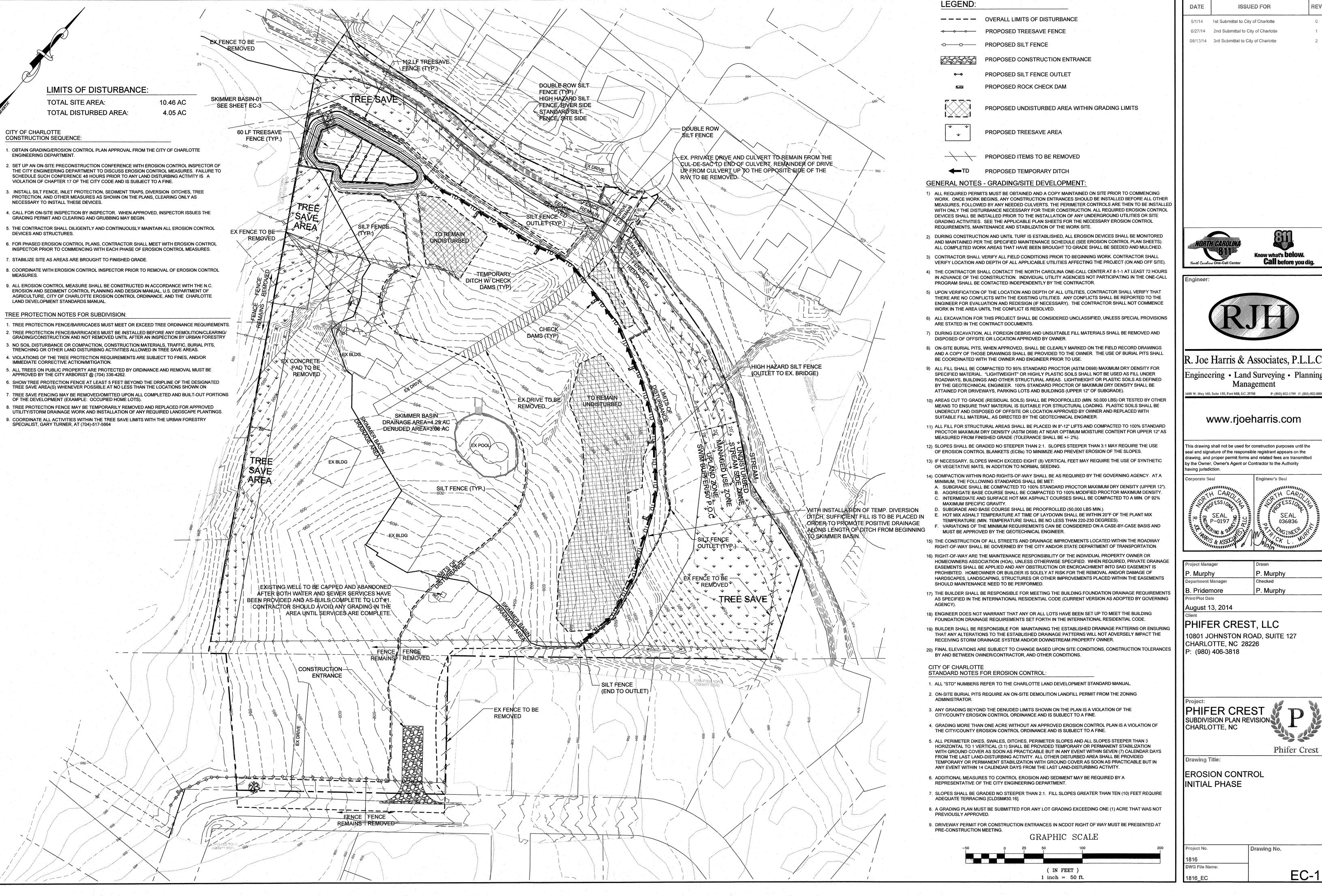


Drawing Title:

SITE PLAN DETAILS

Drawing No. 1816 DWG File Name: 1816_DETAIL

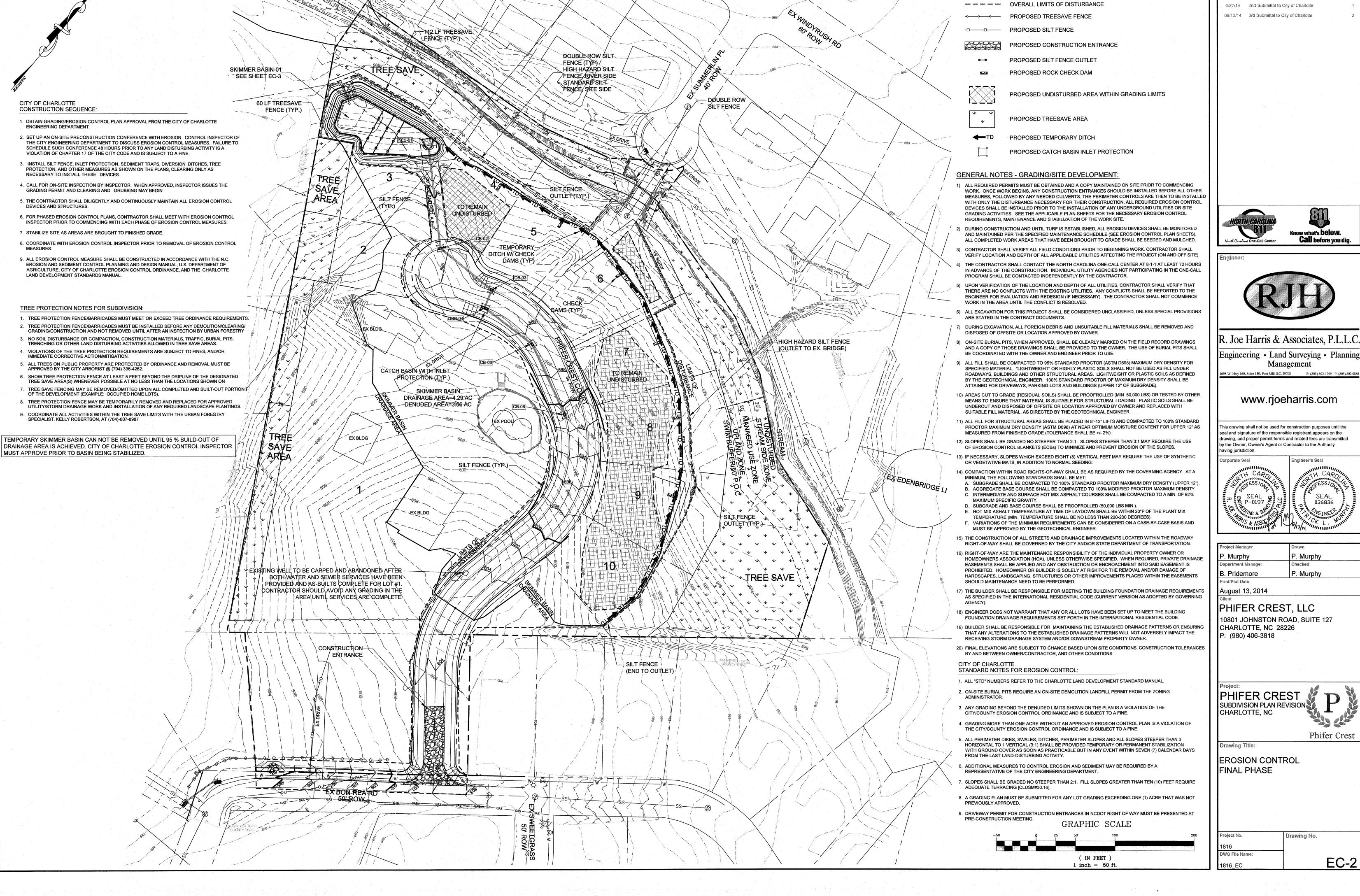
SP-6







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DATE ISSUED FOR 5/1/14 1st Submittal to City of Charlotte

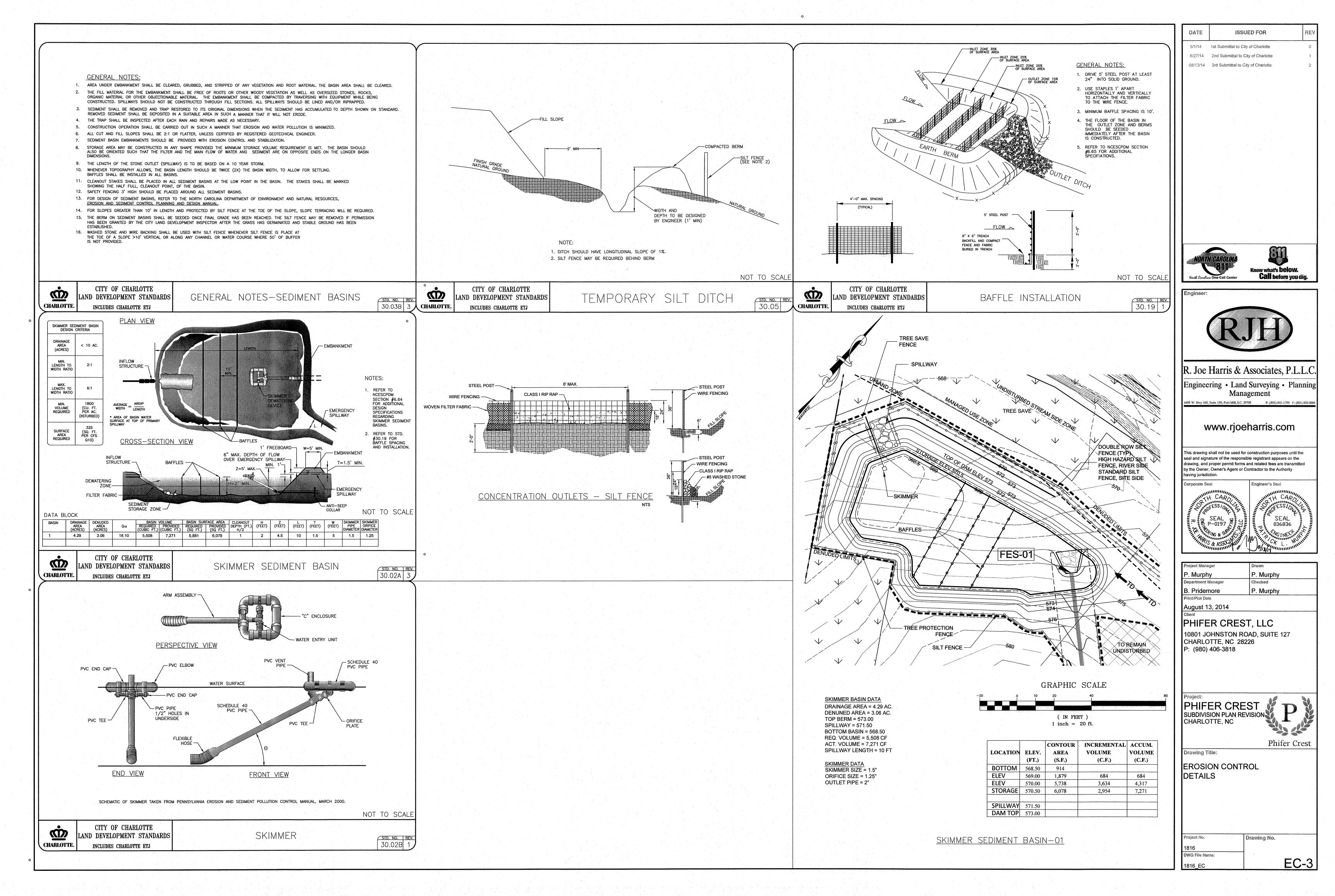
LEGEND:

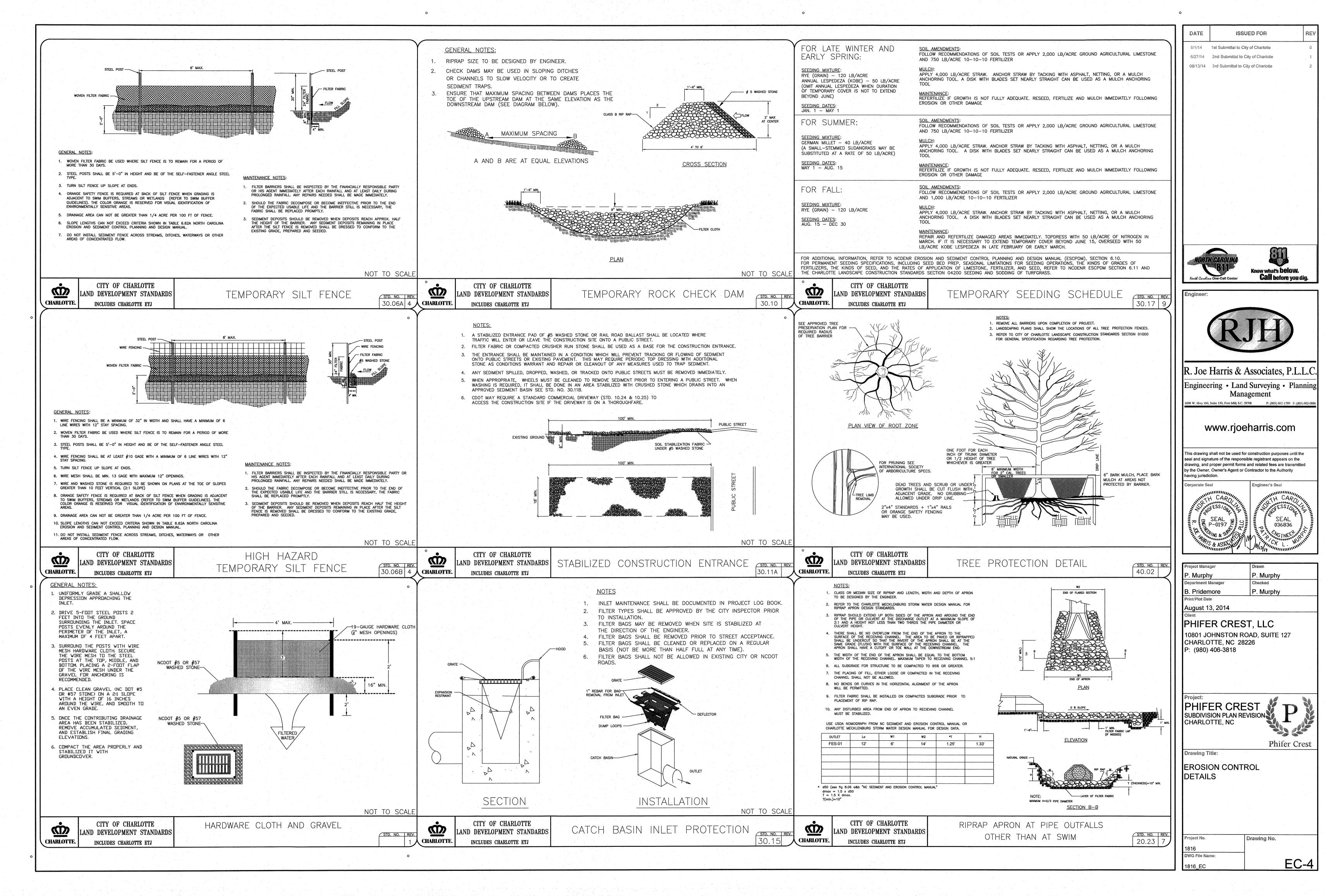


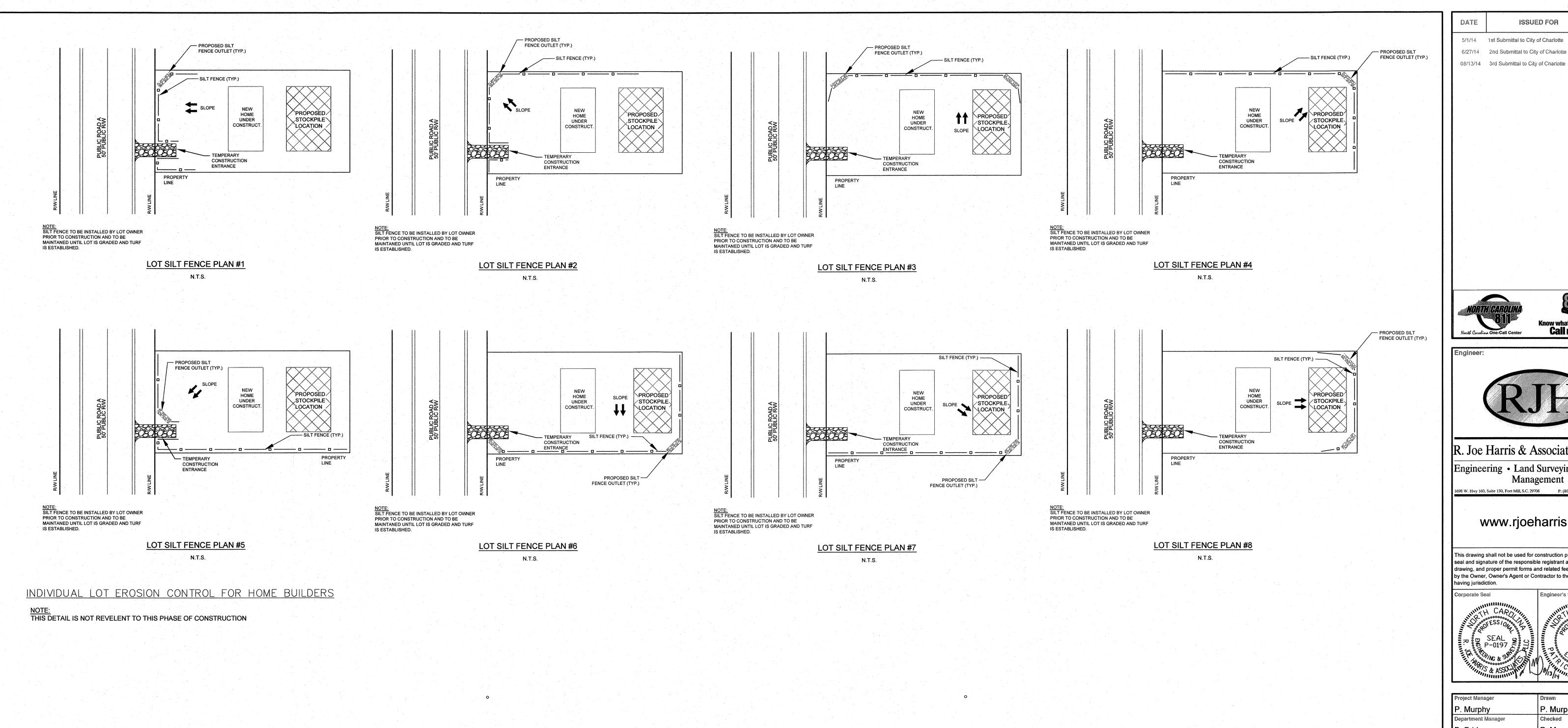


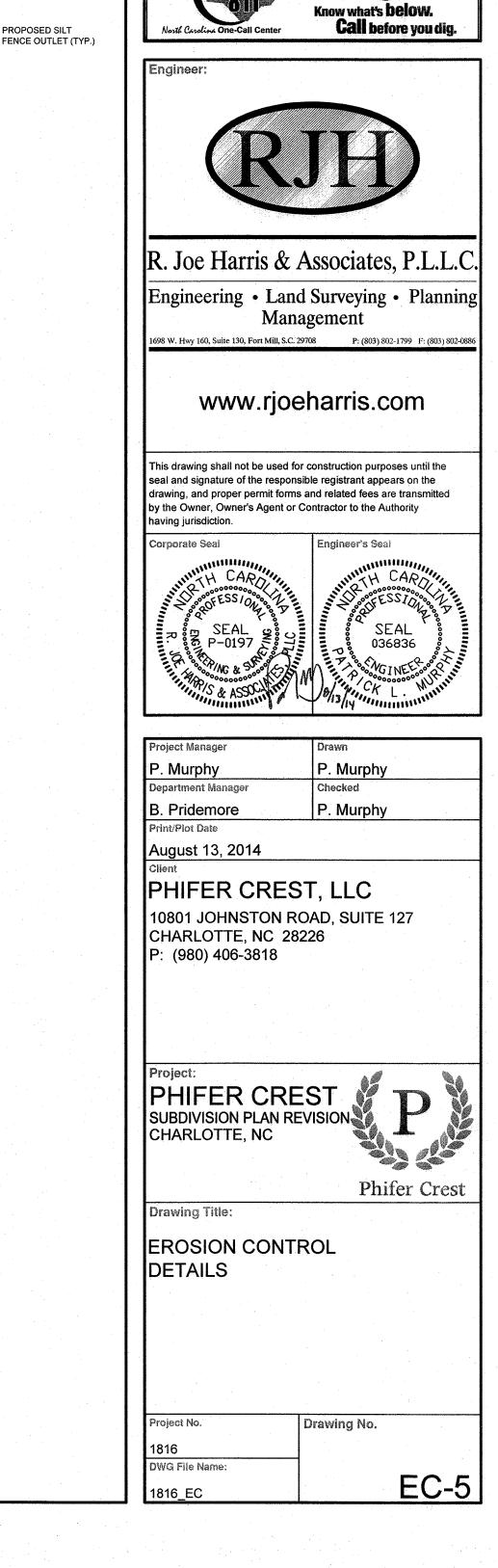
his drawing shall not be used for construction purposes until the seal and signature of the responsible registrant appears on the



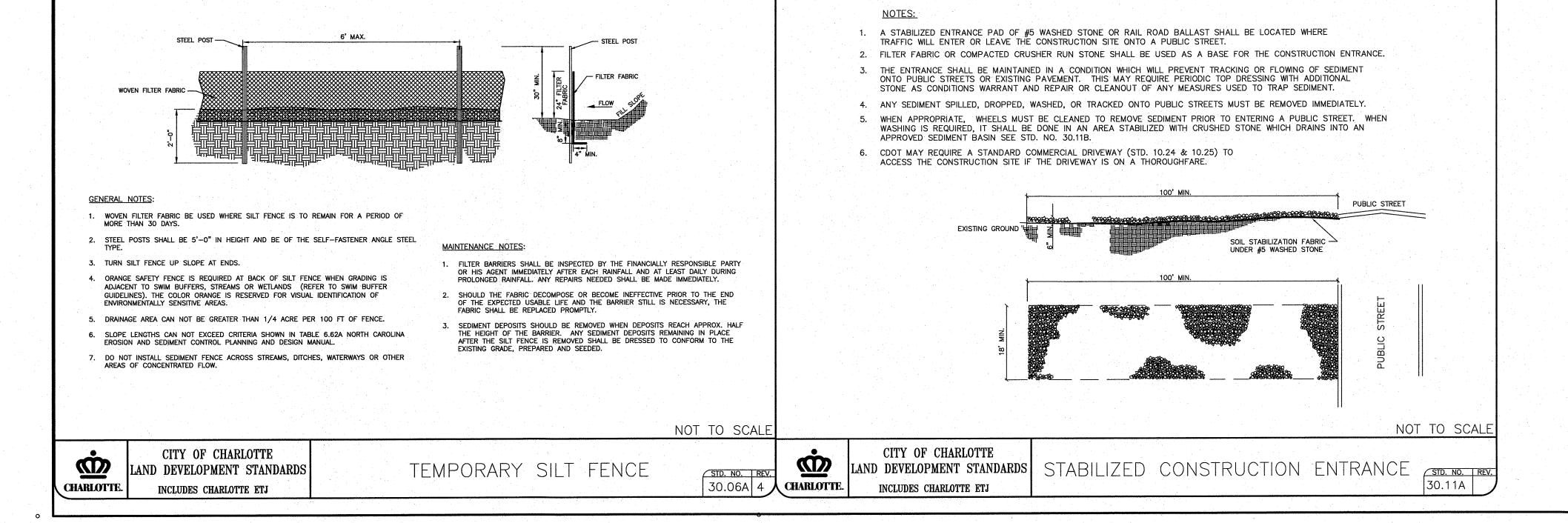


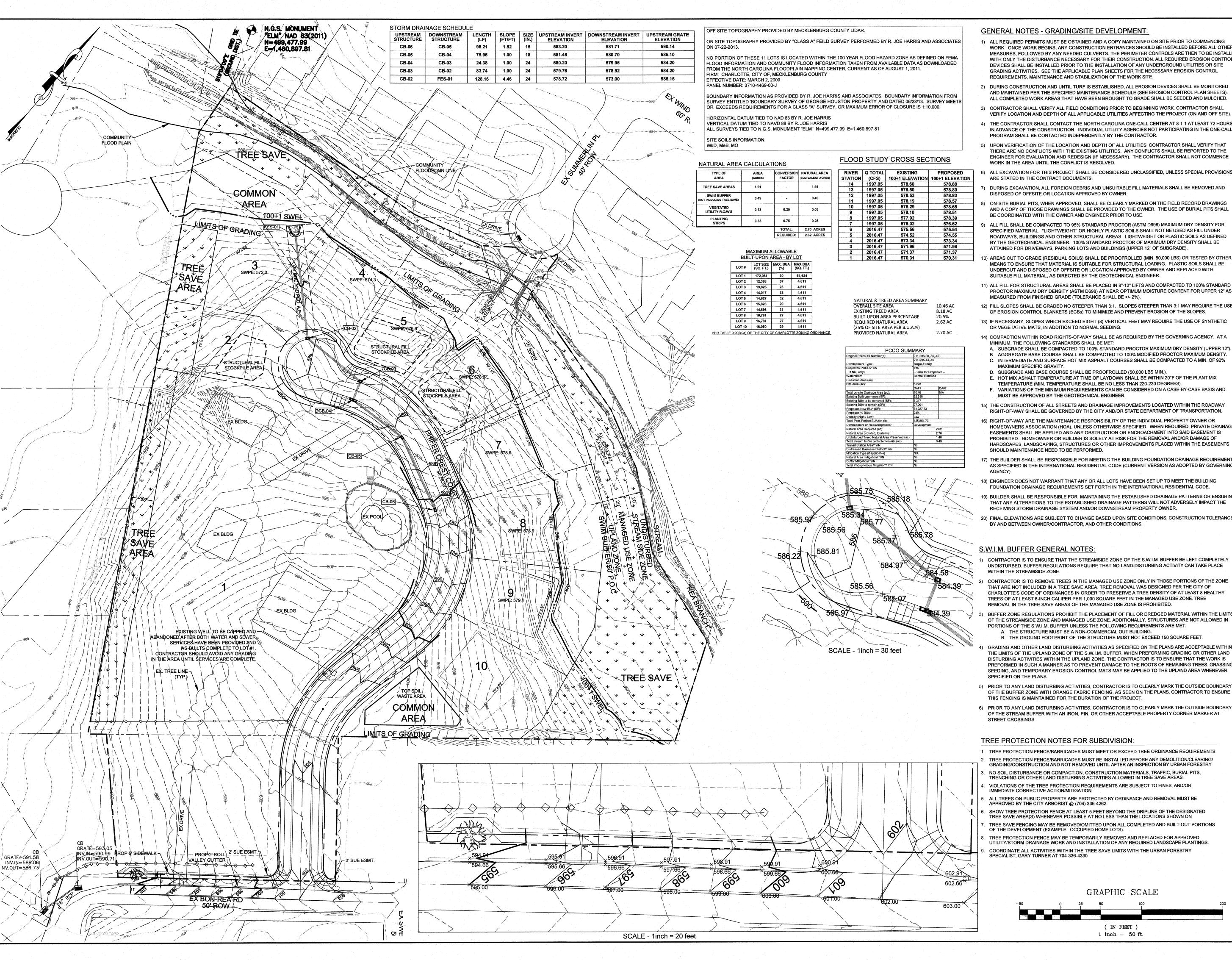






ISSUED FOR





GENERAL NOTES - GRADING/SITE DEVELOPMENT

- WORK, ONCE WORK BEGINS, ANY CONSTRUCTION ENTRANCES SHOULD BE INSTALLED BEFORE ALL OTHER MEASURES, FOLLOWED BY ANY NEEDED CULVERTS. THE PERIMETER CONTROLS ARE THEN TO BE INSTALLED WITH ONLY THE DISTURBANCE NECESSARY FOR THEIR CONSTRUCTION. ALL REQUIRED EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ANY UNDERGROUND UTILITIES OR SITE GRADING ACTIVITIES. SEE THE APPLICABLE PLAN SHEETS FOR THE NECESSARY EROSION CONTROL REQUIREMENTS, MAINTENANCE AND STABILIZATION OF THE WORK SITE.
- 2) DURING CONSTRUCTION AND UNTIL TURF IS ESTABLISHED, ALL EROSION DEVICES SHALL BE MONITORED AND MAINTAINED PER THE SPECIFIED MAINTENANCE SCHEDULE (SEE EROSION CONTROL PLAN SHEETS). ALL COMPLETED WORK AREAS THAT HAVE BEEN BROUGHT TO GRADE SHALL BE SEEDED AND MULCHED.
- 3) CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO BEGINNING WORK. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL APPLICABLE UTILITIES AFFECTING THE PROJECT (ON AND OFF SITE).
- 4) THE CONTRACTOR SHALL CONTACT THE NORTH CAROLINA ONE-CALL CENTER AT 8-1-1 AT LEAST 72 HOURS IN ADVANCE OF THE CONSTRUCTION. INDIVIDUAL UTILITY AGENCIES NOT PARTICIPATING IN THE ONE-CALL
-) UPON VERIFICATION OF THE LOCATION AND DEPTH OF ALL UTILITIES, CONTRACTOR SHALL VERIFY THAT THERE ARE NO CONFLICTS WITH THE EXISTING UTILITIES. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER FOR EVALUATION AND REDESIGN (IF NECESSARY). THE CONTRACTOR SHALL NOT COMMENCE
- ALL EXCAVATION FOR THIS PROJECT SHALL BE CONSIDERED UNCLASSIFIED, UNLESS SPECIAL PROVISIONS
- DURING EXCAVATION, ALL FOREIGN DEBRIS AND UNSUITABLE FILL MATERIALS SHALL BE REMOVED AND DISPOSED OF OFFSITE OR LOCATION APPROVED BY OWNER.
- ON-SITE BURIAL PITS, WHEN APPROVED, SHALL BE CLEARLY MARKED ON THE FIELD RECORD DRAWINGS AND A COPY OF THOSE DRAWINGS SHALL BE PROVIDED TO THE OWNER. THE USE OF BURIAL PITS SHALL BE COORDINATED WITH THE OWNER AND ENGINEER PRIOR TO USE.
- ALL FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR (ASTM D698) MAXIMUM DRY DENSITY FOR SPECIFIED MATERIAL. "LIGHTWEIGHT" OR HIGHLY PLASTIC SOILS SHALL NOT BE USED AS FILL UNDER ROADWAYS, BUILDINGS AND OTHER STRUCTURAL AREAS. LIGHTWEIGHT OR PLASTIC SOILS AS DEFINED BY THE GEOTECHNICAL ENGINEER. 100% STANDARD PROCTOR OF MAXIMUM DRY DENSITY SHALL BE ATTAINED FOR DRIVEWAYS, PARKING LOTS AND BUILDINGS (UPPER 12" OF SUBGRADE).
- 10) AREAS CUT TO GRADE (RESIDUAL SOILS) SHALL BE PROOFROLLED (MIN. 50,000 LBS) OR TESTED BY OTHER MEANS TO ENSURE THAT MATERIAL IS SUITABLE FOR STRUCTURAL LOADING. PLASTIC SOILS SHALL BE UNDERCUT AND DISPOSED OF OFFSITE OR LOCATION APPROVED BY OWNER AND REPLACED WITH SUITABLE FILL MATERIAL, AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- PROCTOR MAXIMUM DRY DENSITY (ASTM D698) AT NEAR OPTIMUM MOISTURE CONTENT FOR UPPER 12" AS MEASURED FROM FINISHED GRADE (TOLERANCE SHALL BE +/- 2%).
- 12) FILL SLOPES SHALL BE GRADED NO STEEPER THAN 3:1. SLOPES STEEPER THAN 3:1 MAY REQUIRE THE USE OF EROSION CONTROL BLANKETS (ECBs) TO MINIMIZE AND PREVENT EROSION OF THE SLOPES.
- 13) IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET MAY REQUIRE THE USE OF SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO NORMAL SEEDING.
- 14) COMPACTION WITHIN ROAD RIGHTS-OF-WAY SHALL BE AS REQUIRED BY THE GOVERNING AGENCY. AT A
- MINIMUM, THE FOLLOWING STANDARDS SHALL BE MET: A. SUBGRADE SHALL BE COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY (UPPER 12").
- B. AGGREGATE BASE COURSE SHALL BE COMPACTED TO 100% MODIFIED PROCTOR MAXIMUM DENSITY. C. INTERMEDIATE AND SURFACE HOT MIX ASPHALT COURSES SHALL BE COMPACTED TO A MIN. OF 92%
- D. SUBGRADE AND BASE COURSE SHALL BE PROOFROLLED (50,000 LBS MIN.) E. HOT MIX ASHALT TEMPERATURE AT TIME OF LAYDOWN SHALL BE WITHIN 20°F OF THE PLANT MIX
- TEMPERATURE (MIN. TEMPERATURE SHALL BE NO LESS THAN 220-230 DEGREES). F. VARIATIONS OF THE MINIMUM REQUIREMENTS CAN BE CONSIDERED ON A CASE-BY-CASE BASIS AND
- MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.
- 15) THE CONSTRUCTION OF ALL STREETS AND DRAINAGE IMPROVEMENTS LOCATED WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE GOVERNED BY THE CITY AND/OR STATE DEPARTMENT OF TRANSPORTATION.
- 6) RIGHT-OF-WAY ARE THE MAINTENANCE RESPONSIBILITY OF THE INDIVIDUAL PROPERTY OWNER OR HOMEOWNERS ASSOCIATION (HOA), UNLESS OTHERWISE SPECIFIED. WHEN REQUIRED, PRIVATE DRAINAGE EASEMENTS SHALL BE APPLIED AND ANY OBSTRUCTION OR ENCROACHMENT INTO SAID EASEMENT IS PROHIBITED. HOMEOWNER OR BUILDER IS SOLELY AT RISK FOR THE REMOVAL AND/OR DAMAGE OF HARDSCAPES, LANDSCAPING, STRUCTURES OR OTHER IMPROVEMENTS PLACED WITHIN THE EASEMENTS SHOULD MAINTENANCE NEED TO BE PERFORMED.
- 17) THE BUILDER SHALL BE RESPONSIBLE FOR MEETING THE BUILDING FOUNDATION DRAINAGE REQUIREMENTS AS SPECIFIED IN THE INTERNATIONAL RESIDENTIAL CODE (CURRENT VERSION AS ADOPTED BY GOVERNING
- 18) ENGINEER DOES NOT WARRANT THAT ANY OR ALL LOTS HAVE BEEN SET UP TO MEET THE BUILDING FOUNDATION DRAINAGE REQUIREMENTS SET FORTH IN THE INTERNATIONAL RESIDENTIAL CODE.
- 19) BUILDER SHALL BE RESPONSIBLE FOR MAINTAINING THE ESTABLISHED DRAINAGE PATTERNS OR ENSURING THAT ANY ALTERATIONS TO THE ESTABLISHED DRAINAGE PATTERNS WILL NOT ADVERSELY IMPACT THE RECEIVING STORM DRAINAGE SYSTEM AND/OR DOWNSTREAM PROPERTY OWNER.
- 20) FINAL ELEVATIONS ARE SUBJECT TO CHANGE BASED UPON SITE CONDITIONS, CONSTRUCTION TOLERANCES BY AND BETWEEN OWNER/CONTRACTOR, AND OTHER CONDITIONS.

S.W.I.M. BUFFER GENERAL NOTES

- CONTRACTOR IS TO ENSURE THAT THE STREAMSIDE ZONE OF THE S.W.I.M. BUFFER BE LEFT COMPLETELY UNDISTURBED. BUFFER REGULATIONS REQUIRE THAT NO LAND-DISTURBING ACTIVITY CAN TAKE PLACE WITHIN THE STREAMSIDE ZONE.
- CONTRACTOR IS TO REMOVE TREES IN THE MANAGED USE ZONE ONLY IN THOSE PORTIONS OF THE ZONE THAT ARE NOT INCLUDED IN A TREE SAVE AREA. TREE REMOVAL WAS DESIGNED PER THE CITY OF CHARLOTTE'S CODE OF ORDINANCES IN ORDER TO PRESERVE A TREE DENSITY OF AT LEAST 8 HEALTHY TREES OF AT LEAST 6-INCH CALIPER PER 1,000 SQUARE FEET IN THE MANAGED USE ZONE. TREE REMOVAL IN THE TREE SAVE AREAS OF THE MANAGED USE ZONE IS PROHIBITED.
- BUFFER ZONE REGULATIONS PROHIBIT THE PLACEMENT OF FILL OR DREDGED MATERIAL WITHIN THE LIMIT OF THE STREAMSIDE ZONE AND MANAGED USE ZONE. ADDITIONALLY, STRUCTURES ARE NOT ALLOWED IN PORTIONS OF THE S.W.I.M. BUFFER UNLESS THE FOLLOWING REQUIREMENTS ARE MET:
- A. THE STRUCTURE MUST BE A NON-COMMERCIAL OUT BUILDING. B. THE GROUND FOOTPRINT OF THE STRUCTURE MUST NOT EXCEED 150 SQUARE FEET
- GRADING AND OTHER LAND DISTURBING ACTIVITIES AS SPECIFIED ON THE PLANS ARE ACCEPTABLE WITHIN THE LIMITS OF THE UPLAND ZONE OF THE S.W.I.M. BUFFER. WHEN PREFORMING GRADING OR OTHER LAND DISTURBING ACTIVITIES WITHIN THE UPLAND ZONE, THE CONTRACTOR IS TO ENSURE THAT THE WORK IS PREFORMED IN SUCH A MANNER AS TO PREVENT DAMAGE TO THE ROOTS OF REMAINING TREES. GRASSING, SEEDING, AND TEMPORARY EROSION CONTROL MATS MAY BE APPLIED TO THE UPLAND AREA WHENEVER
- 5) PRIOR TO ANY LAND DISTURBING ACTIVITIES, CONTRACTOR IS TO CLEARLY MARK THE OUTSIDE BOUNDARY OF THE BUFFER ZONE WITH ORANGE FABRIC FENCING, AS SEEN ON THE PLANS. CONTRACTOR TO ENSURE THIS FENCING IS MAINTAINED FOR THE DURATION OF THE PROJECT.
- 6) PRIOR TO ANY LAND DISTURBING ACTIVITIES, CONTRACTOR IS TO CLEARLY MARK THE OUTSIDE BOUNDARY OF THE STREAM BUFFER WITH AN IRON, PIN, OR OTHER ACCEPTABLE PROPERTY CORNER MARKER AT

TREE PROTECTION NOTES FOR SUBDIVISION:

- 1. TREE PROTECTION FENCE/BARRICADES MUST MEET OR EXCEED TREE ORDINANCE REQUIREMENTS. TREE PROTECTION FENCE/BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION/CLEARING/
- NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITIES ALLOWED IN TREE SAVE AREAS.
- VIOLATIONS OF THE TREE PROTECTION REQUIREMENTS ARE SUBJECT TO FINES, AND/OR
- IMMEDIATE CORRECTIVE ACTION/MITIGATION.
- APPROVED BY THE CITY ARBORIST @ (704) 336-4262 SHOW TREE PROTECTION FENCE AT LEAST 5 FEET BEYOND THE DRIPLINE OF THE DESIGNATED
- TREE SAVE AREA(S) WHENEVER POSSIBLE AT NO LESS THAN THE LOCATIONS SHOWN ON TREE SAVE FENCING MAY BE REMOVED/OMITTED UPON ALL COMPLETED AND BUILT-OUT PORTIONS
- OF THE DEVELOPMENT (EXAMPLE: OCCUPIED HOME LOTS). TREE PROTECTION FENCE MAY BE TEMPORARILY REMOVED AND REPLACED FOR APPROVED
- UTILITY/STORM DRAINAGE WORK AND INSTALLATION OF ANY REQUIRED LANDSCAPE PLANTINGS. COORDINATE ALL ACTIVITIES WITHIN THE TREE SAVE LIMITS WITH THE URBAN FORESTRY

(IN FEET) 1 inch = 50 ft.

DATE ISSUED FOR 5/1/14 1st Submittal to City of Charlotte 6/27/14 2nd Submittal to City of Charlotte 08/13/14 3rd Submittal to City of Charlotte





Engineer:



R. Joe Harris & Associates, P.L.L. Engineering • Land Surveying • Planning Management

1698 W. Hwy 160, Suite 130, Fort Mill, S.C. 29708 P: (803) 802-1799 F: (803) 802-08

www.rjoeharris.com

This drawing shall not be used for construction purposes until the seal and signature of the responsible registrant appears on the drawing, and proper permit forms and related fees are transmitted y the Owner, Owner's Agent or Contractor to the Authority

naving jurisdiction. orporate Seal Engineer's Seal



. Murphy P. Murphy B. Pridemore

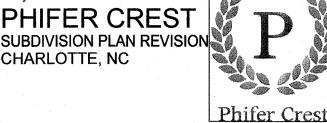
August 13, 2014

P: (980) 406-3818

rint/Plot Date

PHIFER CREST, LLC 10801 JOHNSTON ROAD, SUITE 127 CHARLOTTE, NC 28226

CHARLOTTE, NC



Drawing Title:

816 GRD

GRADING AND STORM DRAINAGE PLAN

Drawing No. **DWG File Name:**

