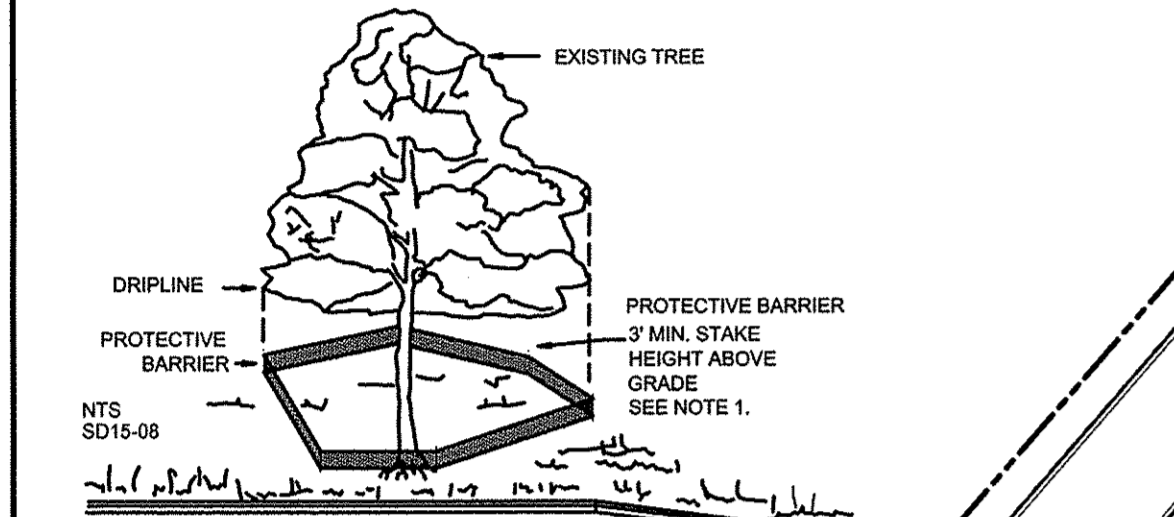


**FEEDER ROOTS**  
FEEDER ROOTS ARE LOCATED AT "DRIFLINE" OF TREE AND PROVIDE TREE WITH MOISTURE AND NUTRIENTS. SEE NOTE 1 & NOTE 3

**STRUCTURAL ROOTS**  
STRUCTURAL ROOTS LOCATED NEAR BASE OF TRUNK ARE NEEDED TO GIVE SUPPORT TO ENTIRE TREE. IF REMOVED, TREE CAN FAIL AND DAMAGE PROPERTY. SEE NOTE 2 & NOTE 3

**CROWN OF TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND, SOFTEN NOISE, AND PROVIDE BEAUTIFUL APPEARANCE. DO NOT DISFIGURE CROWN WITH INSENSITIVE PRUNING!**

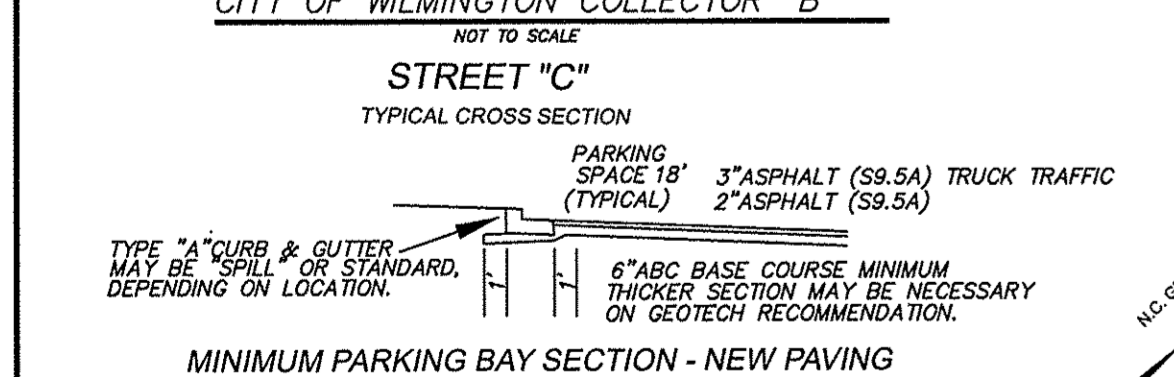
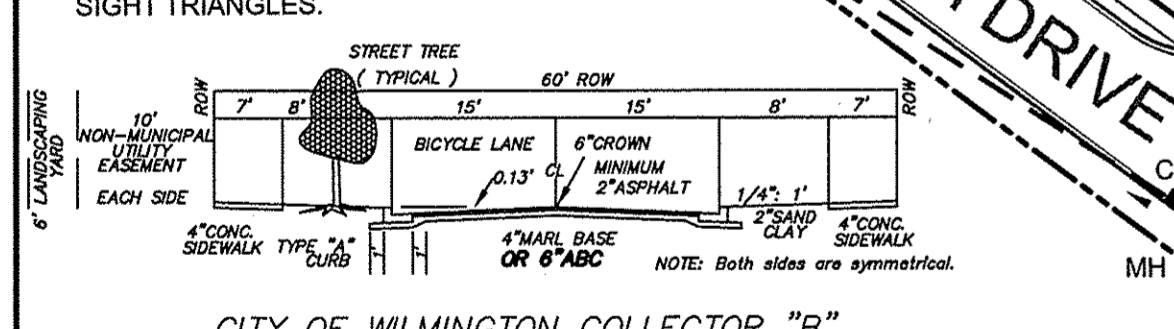
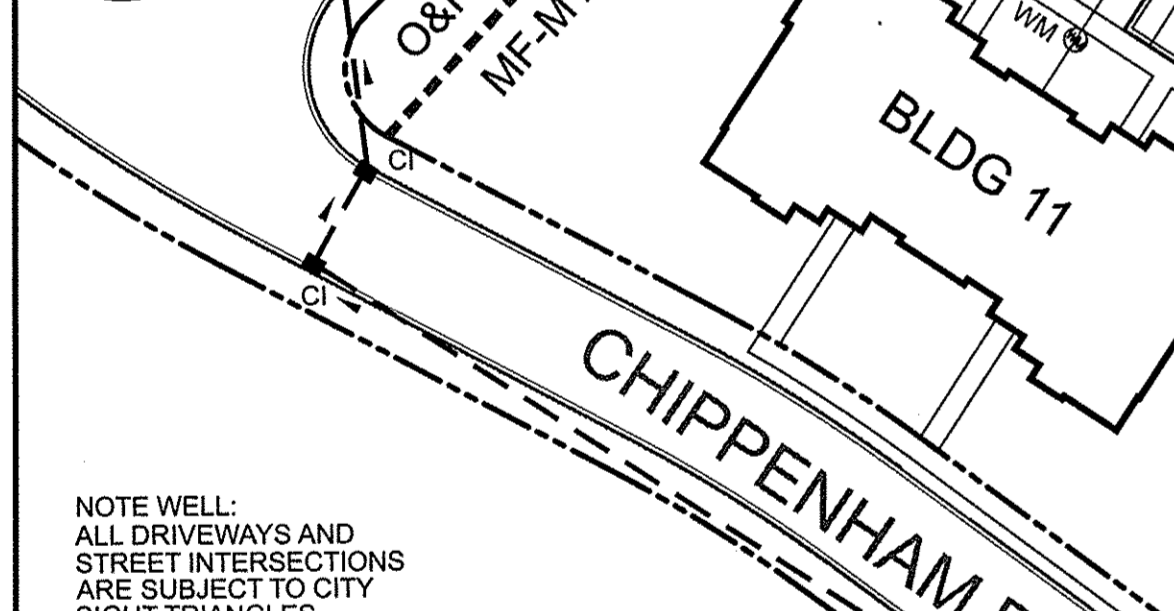
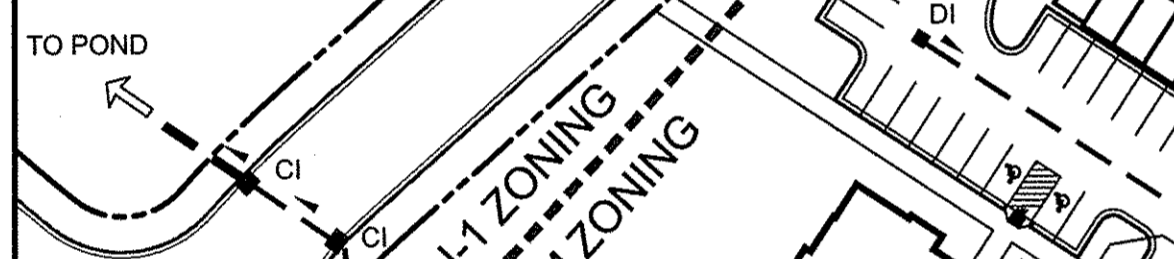
- TREE PROTECTION DURING CONSTRUCTION -**
- CLEARLY MARK THE TREE TO BE SAVED PRIOR TO CONSTRUCTION AND ERECT A PROTECTIVE BARRIER AT THE DRIFLINE. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO HEAVY MATERIALS SHALL BE STORED BENEATH TREES. RESULTS OF COMPACTION CAUSE WATER AND AIR NOT TO REACH THE ROOTS AND THE TREE WILL DIE. THESE "FEEDING ROOTS" OCCUR WELL AWAY FROM THE BASE OF THE TREE TO THE EDGE OF THE OVERHEAD BRANCH CANOPY. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. THE PROTECTIVE BARRIER SHOULD PREVENT DAMAGE FROM OCCURRING DURING CONSTRUCTION.
  - NO CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK. REMOVAL OF THESE ROOTS ALONG ONE SIDE IS OFTEN DONE BECAUSE OF A WALK, PAVING OR BUILDING WHICH IS BEING CONSTRUCTED. THESE ARE ESSENTIAL IN SUPPORTING THE TREE AND HOLDING IT UPRIGHT IN HIGH WINDS.
  - AVOID CUT AND FILL WITHIN DIAMETER OF TREE CROWN DURING EXCAVATION.



TREES TO BE SAVED WILL BE CLEARLY MARKED PRIOR TO CONSTRUCTION AND A PROTECTIVE BARRIER IS TO BE INSTALLED AT THE DRIFLINE. DRIP LINE - THE AREA OF SOIL DIRECTLY BENEATH THE TREE EXTENDING OUT TO THE TIPS OF THE OUTERMOST BRANCHES.

**STORMWATER DISCHARGE TO BE DIRECTED TO SEMI-REGIONAL CITY STORMWATER RETENTION / DETENTION WET POND**

**NOTE WELL: ALL DRIVEWAYS AND STREET INTERSECTIONS ARE SUBJECT TO CITY SIGHT TRIANGLES.**



**REVISIONS:**

REV. NO.	REVISIONS	DATE

**PRELIMINARY PLAN**  
NOT FOR RECORDATION OR CONVEYANCE

**SCALE IN FEET: 1"=60'**

**ARCHITECT:** Niles Bolton Associates  
3060 Peachtree Road NW, Suite 600  
Atlanta, GA 30305  
404-365-7600

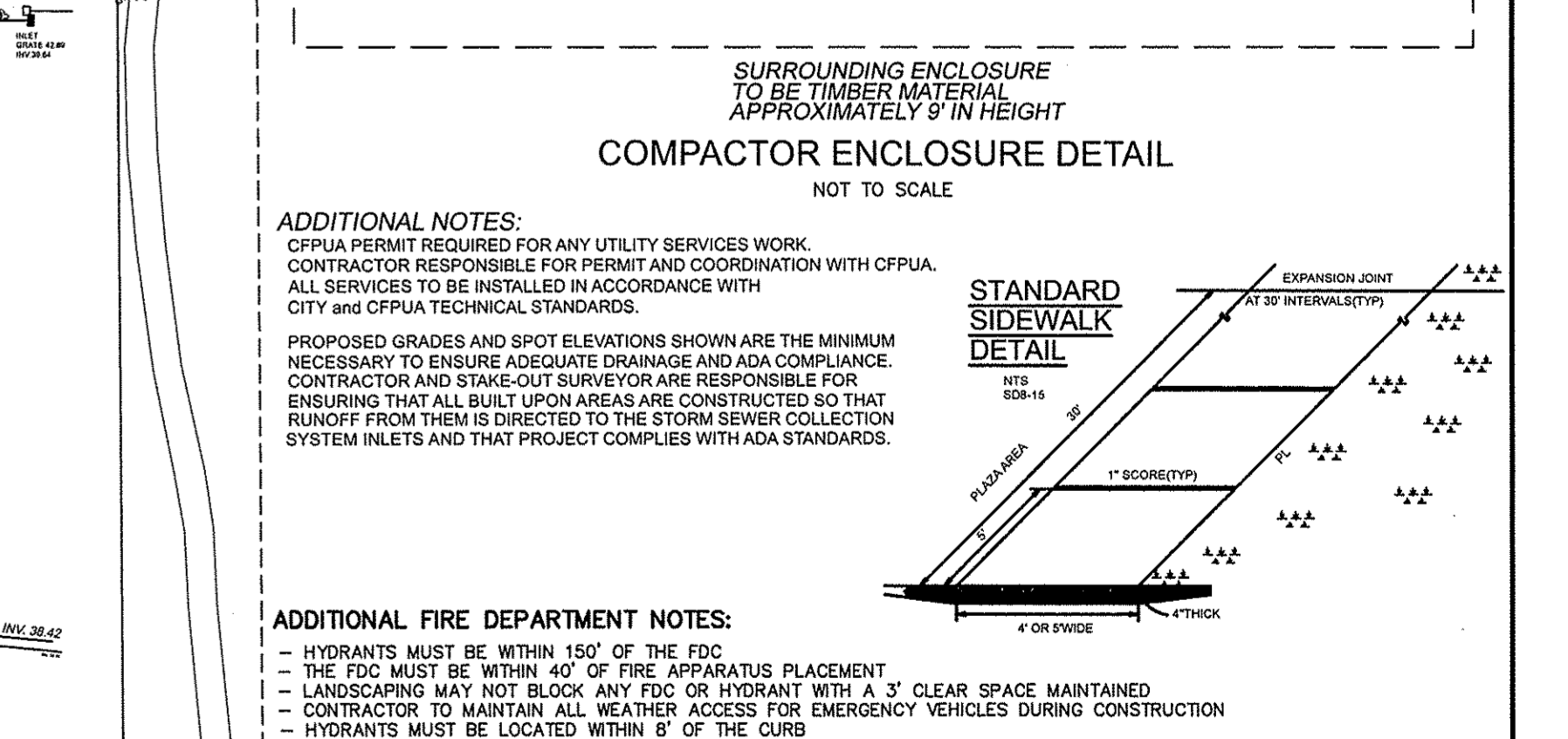
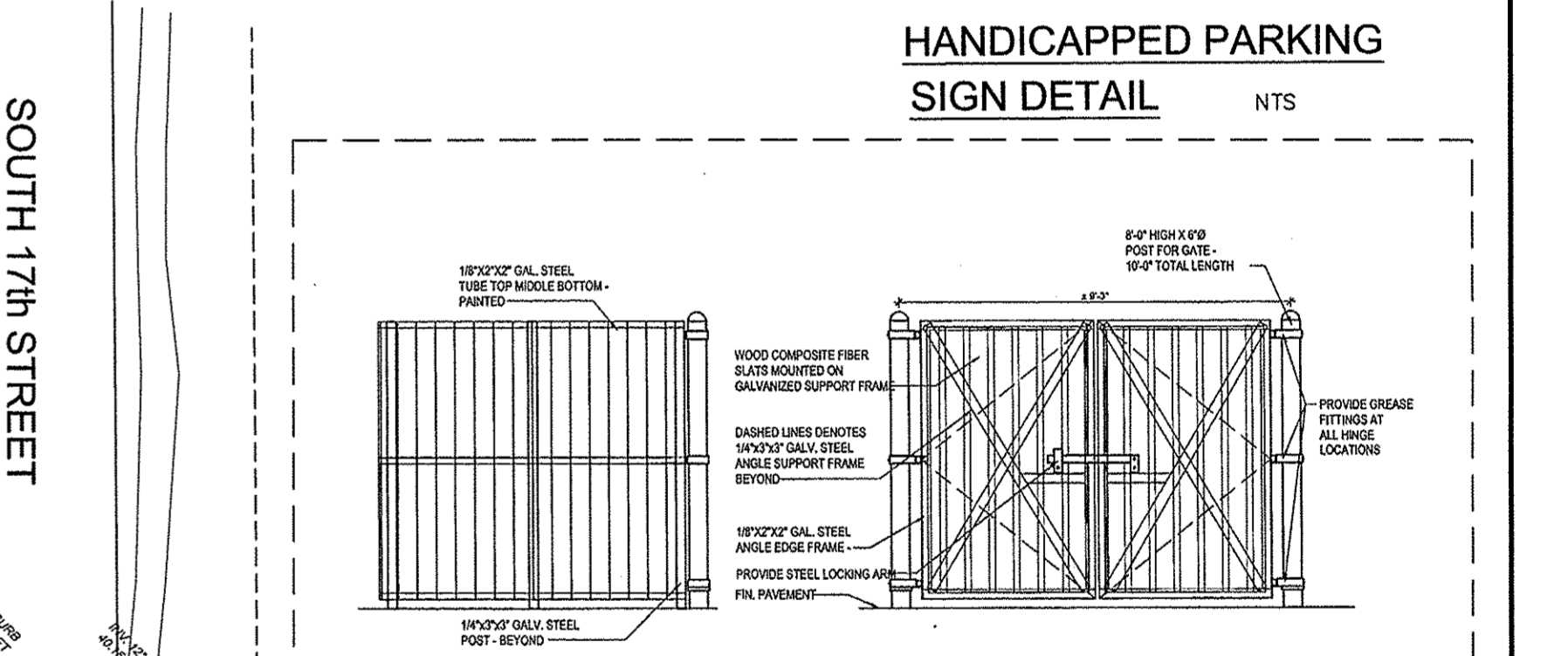
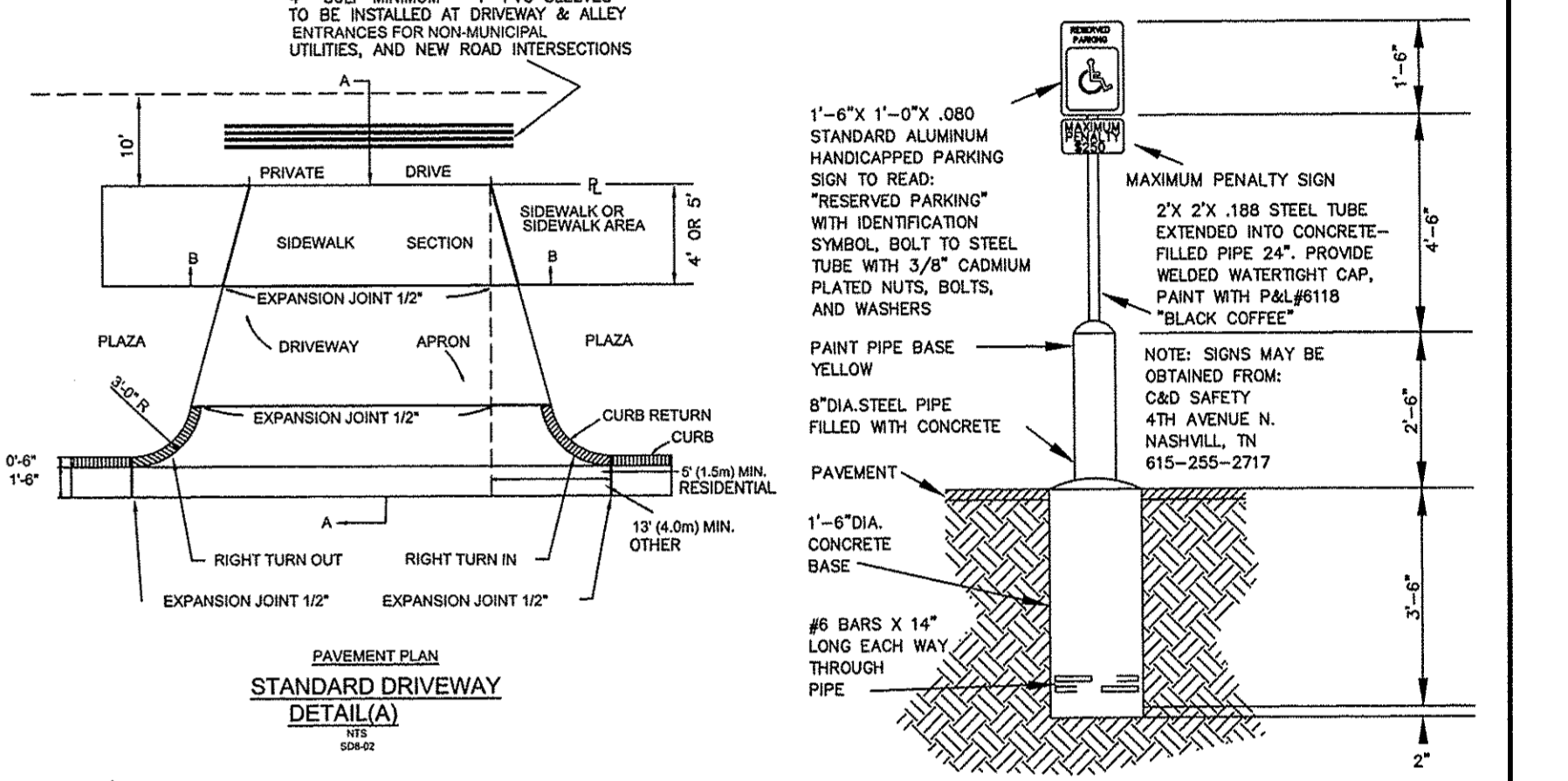
**ADDRESS:** TBD, 3501 Independence Blvd.

**DEVELOPER:** Kassinger Development Group, LLC  
2402 Myrtle Avenue  
Sullivans Island, SC 29482-8654  
843-883-0810

**PARCEL ID:** TBD, R06500-003-004-000

**OWNER:** Cameron Properties  
1201 Glen Meade Road PO Box 3649  
Wilmington, NC 28406  
910-762-2676

**BUILDING ELEVATION VIEW NTS**



**Preliminary Utilities Plan of**  
**GALLERY PARK APARTMENTS**  
at Barclay West  
LOCATED IN CITY OF WILMINGTON

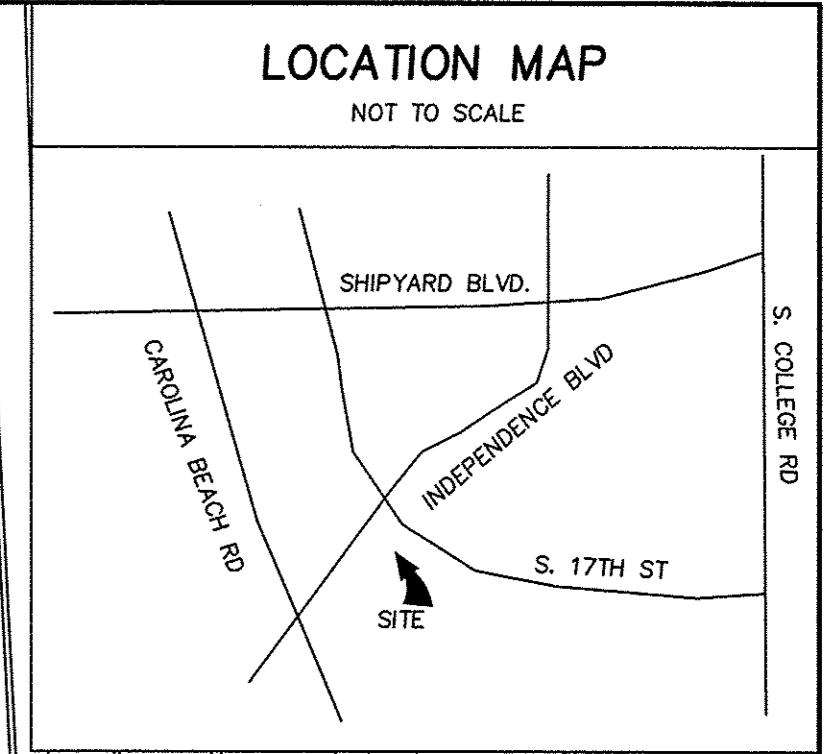
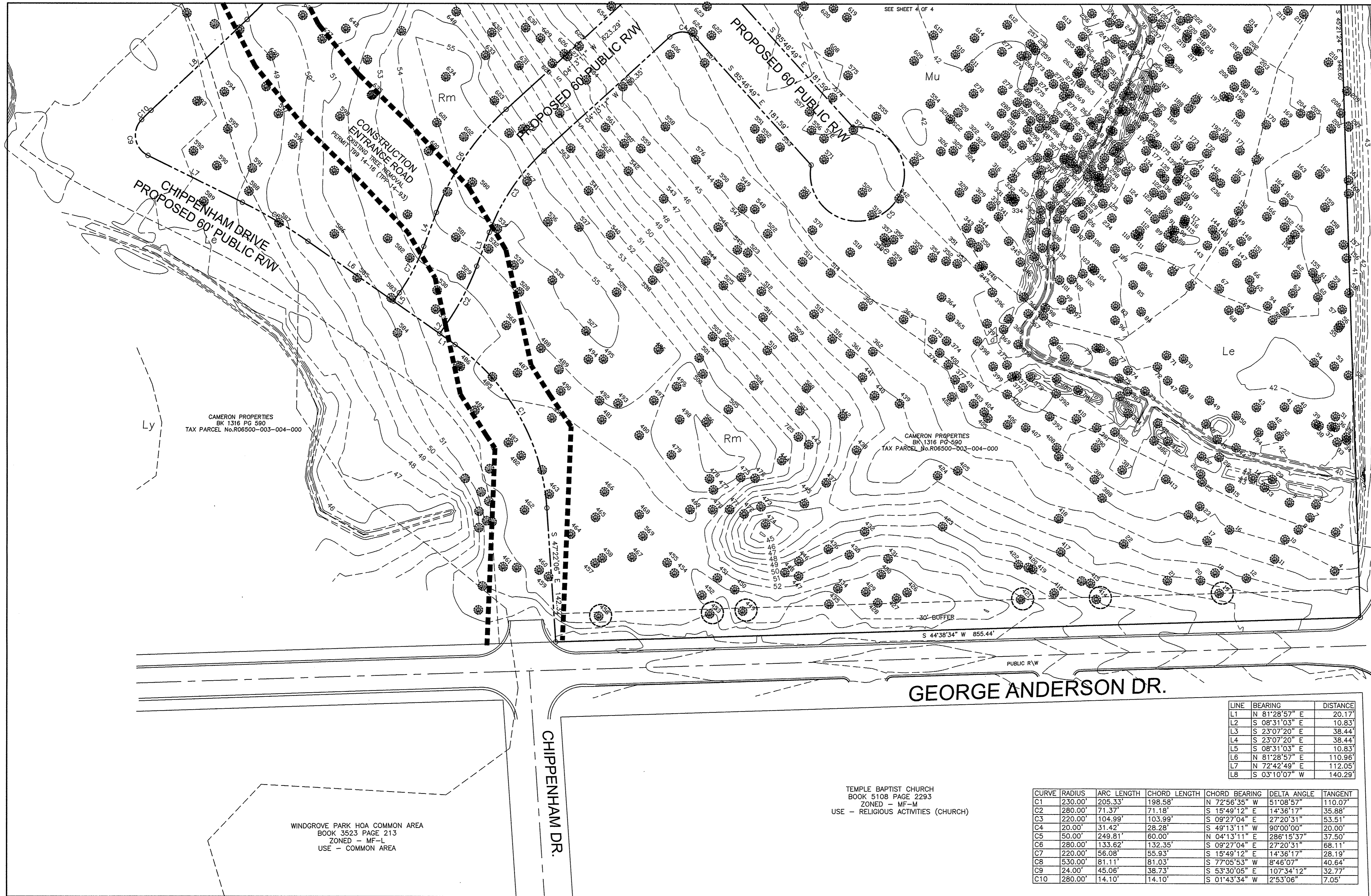
SMITHVILLE TOWNSHIP  
NEW HANOVER COUNTY, NORTH CAROLINA

**DEVELOPER:** Kassinger Development Group, LLC  
2402 Myrtle Avenue  
Sullivans Island, SC 29482-8654  
(843) 883-0810

**HANOVER DESIGN SERVICES, P.A.**  
LAND SURVEYORS, ENGINEERS & LAND PLANNERS  
1123 FLORAL PARKWAY  
WILMINGTON, N.C. 28403  
PHONE: (910) 343-6602  
LICENSE # C-0597

**North Carolina Professional Engineer Seal 20007**

**DSH**  
Checked: **DSH**  
Project No.: 12498  
Sheet No.: 2 of 2



**TREE INVENTORY**

TREES TO BE REMOVED  
 PINE -----419  
 HARDWOOD -----22  
 MAGNOLIA -----1

TREES TO BE SAVED  
 PINE -6

CAMERON PROPERTIES  
 BOOK 5343 PAGE 664  
 ZONED - PD  
 USE - VACANT

LINE	BEARING	DISTANCE
L1	N 81°28'57" E	20.17
L2	S 08°31'03" E	10.83
L3	S 23°07'20" E	38.44
L4	S 23°07'20" E	38.44
L5	S 08°31'03" E	10.83
L6	N 81°28'57" E	110.96
L7	N 72°42'49" E	112.05
L8	S 03°10'07" W	140.29

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE	TANGENT
C1	230.00'	205.33'	198.58'	N 72°56'35" W	51°08'57"	110.07'
C2	280.00'	71.37'	71.18'	S 15°49'12" E	14°36'17"	35.88'
C3	220.00'	104.99'	103.99'	S 09°27'04" E	27°20'31"	53.51'
C4	20.00'	31.42'	28.28'	S 49°13'11" W	90°00'00"	20.00'
C5	50.00'	249.81'	60.00'	N 04°13'11" E	286°15'37"	37.50'
C6	280.00'	133.62'	132.35'	S 09°27'04" E	27°20'31"	68.11'
C7	220.00'	56.08'	55.93'	S 15°49'12" E	14°36'17"	28.19'
C8	530.00'	81.11'	81.03'	S 77°05'53" W	8°46'07"	40.64'
C9	24.00'	45.06'	38.73'	S 53°30'05" E	107°34'12"	32.77'
C10	280.00'	14.10'	14.10'	S 01°43'34" W	2°53'06"	7.05'

TEMPLE BAPTIST CHURCH  
 BOOK 5108 PAGE 2293  
 ZONED - MF-M  
 USE - RELIGIOUS ACTIVITIES (CHURCH)

WINDGROVE PARK HOA COMMON AREA  
 BOOK 3523 PAGE 213  
 ZONED - MF-L  
 USE - COMMON AREA

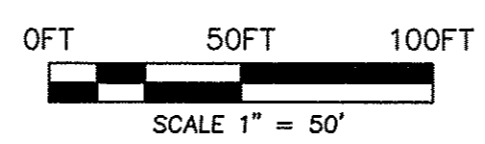
**LEGEND**

- TREE ID NUMBER
- TREE TO BE REMOVED
- TREE TO BE SAVED
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE

- SITE INVENTORY NOTES**
- SOILS TYPE - Mu, Le, Rm, Ly  
 Mu - MURVILLE FINE SAND  
 Le - LEON SAND  
 Rm - RIMINI SAND  
 Ly - LYNN HAVEN FINE SAND
  - THIS PROPERTY IS NOT IMPACTED BY ANY AEC.
  - NO CONSERVATION OVERLAY BOUNDARIES
  - SITE DOES NOT APPEAR TO BE IMPACTED BY ANY HISTORIC OR ARCHEOLOGICAL SIGNIFICANCE.
  - NO EVIDENCE OF CEMETERIES FOUND
  - NO JURISDICTIONAL WETLAND ON SITE
  - NO EVIDENCE OF ENDANGERED SPECIES FOUND ON SITE
  - THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA ACCORDING TO FEMA FIRM 3720312500J DATE APRIL 3, 2006
  - CAMA LAND USE CLASSIFICATION - URBAN
  - SITE DRAINS INTO BARNARDS CREEK, INDEX No. 18-80 CLASSIFICATION C:Sw

- GENERAL NOTES**
- TAX PARCEL No. R06500-003-004-000
  - TOTAL AREA 25.52 ACRES
  - SITE ADDRESS - 3501 INDEPENDENCE BLVD.
  - SURVEYED JUNE - NOV. 2013
  - ALL DISTANCES ARE HORIZONTAL
  - ALL ELEVATIONS ARE MVD 1988
  - CAMA LAND USE CLASSIFICATION - URBAN

- TREE PRESERVATION NOTES**
- TREE PRESERVATION / REMOVAL PERMIT IS REQUIRED PRIOR TO CLEARING AND LAND DISTURBANCE
  - ANY REGULATED OR SIGNIFICANT TREES WITHIN STREETYARDS, AND ALL TREES WITHIN BUFFER YARDS OR BEYOND LIMITS OF ESSENTIAL SITE IMPROVEMENTS ARE REQUIRED TO BE PROTECTED AND PRESERVED. EXISTING TREES WITHIN CONSTRUCTION LIMITS SHOULD BE SPADED AND REPLANTED ELSEWHERE ON SITE WHEN FEASIBLE.
  - NO EQUIPMENT IS ALLOWED ON THE SITE UNTILL ALL TREE PRETECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED. PROTECTION FENCING SHALL BE INSTALLED AROUND ALL INDIVIDUAL TREES OR GROVES OF TREES THAT HAVE BEEN DESIGNATED FOR PRESERVATION AND PROTECTION.
  - NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
  - PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.



**EXISTING CONDITIONS**

REV. NO.	REVISIONS	DATE

**PRELIMINARY SUBDIVISION PLAN**  
**BARCLAY WEST GALLERY PARK APARTMENTS**  
 LOCATED IN THE CITY OF WILMINGTON, NEW HANOVER COUNTY, NORTH CAROLINA

OWNER: CAMERON PROPERTIES  
 P.O. BOX 3649  
 WILMINGTON, N.C. 28406 PH 910-762-2676

**HANOVER DESIGN SERVICES, P.A.**  
 LAND SURVEYORS, ENGINEERS & LAND PLANNERS  
 1125 FLORAL PARKWAY  
 WILMINGTON, N.C. 28403  
 PHONE: (910) 343-8002

Date: 06-17-14  
 Scale: 1" = 50'  
 Drawn: J. WAYNE  
 Checked: J. WAYNE  
 Project No: 12498  
 Sheet No: 1 of 3



CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE	TANGENT
C1	480.00'	44.72'	44.70'	N 00°29'58" E	5°20'17"	22.38'
C2	3470.00'	47.26'	47.26'	S 03°31'14" E	0°46'49"	23.63'
C3	3470.00'	78.93'	78.93'	N 02°28'44" W	1°18'12"	39.47'
C4	37.00'	38.17'	36.50'	S 27°43'29" W	59°06'14"	20.98'
C5	92.00'	95.00'	90.84'	N 27°41'40" E	59°09'52"	52.23'
C6	50.00'	39.47'	38.46'	S 20°43'44" W	45°13'59"	20.83'
C7	60.00'	53.28'	51.54'	N 21°13'03" W	50°52'28"	28.54'
C8	115.00'	102.11'	98.79'	N 21°13'03" W	50°52'28"	54.70'
C9	20.00'	31.42'	28.28'	S 40°46'49" E	90°00'00"	20.00'

GALLERY PARK BLVD.  
PROPOSED PUBLIC RW  
EXISTING TREE REMOVAL  
PERMIT 199-14-16 (TRF-14-93)

CAMERON PROPERTIES  
BK 1316 PG 590  
TAX PARCEL No. R06500-003-004-000

SOUTH 17th STREET

CAMERON PROPERTIES  
BOOK 5343 PAGE 664  
ZONED - PD  
USE - VACANT

PROPOSED 60' PUBLIC RW  
EXISTING TREE REMOVAL  
PERMIT 199-14-16 (TRF-14-93)

CAMERON PROPERTIES  
BK 1316 PG 590  
TAX PARCEL No. R06500-003-004-000

SEE SHEET 1 OF 2

**SITE INVENTORY NOTES**

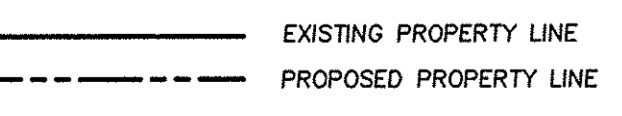
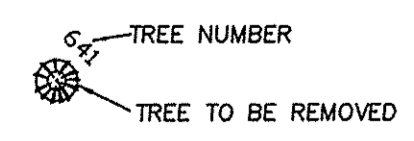
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Le - LEON SAND  
Rm - RIMINI SAND  
Ly - LYNN HAVEN FINE SAND
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**GENERAL NOTES**

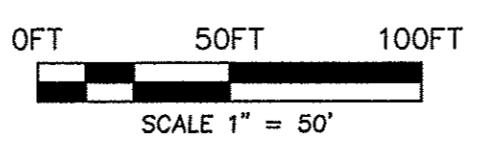
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- SITE ADDRESS - 3501 INDEPENDENCE BLVD.
- SURVEYED JUNE - NOV. 2013
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- ALL ELEVATIONS ARE NGVD 1988
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- NOTES**
- ALL DISTANCES ARE HORIZONTAL
  - TREES LOCATIONS NOV. 2013 - JUNE 2014



**EXISTING CONDITIONS**

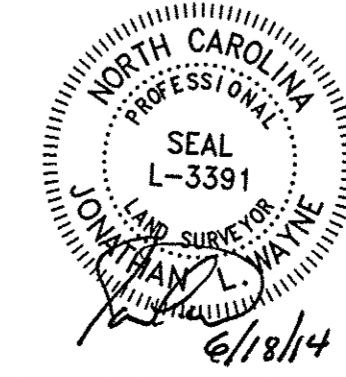
REV. NO.	REVISIONS	DATE
1	CITY COMMENTS	05-14-14

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PRELIMINARY SUBDIVISION PLAN  
**BARCLAY WEST  
GALLERY PARK APARTMENTS**  
LOCATED IN THE CITY OF WILMINGTON NEW HANOVER COUNTY, NORTH CAROLINA

OWNER: CAMERON PROPERTIES  
P.O. BOX 3649  
WILMINGTON, N.C. 28406 PH 910-762-2676

**HANOVER DESIGN SERVICES, P.A.**  
LAND SURVEYORS, ENGINEERS & LAND PLANNERS  
1123 FLORENCE PARKWAY  
WILMINGTON, N.C. 28403  
PHONE: (910) 343-8002



Date: 06-17-14  
Scale: HORZ.: 1" = 50'  
Drawn: J. WAYNE  
Checked: J. WAYNE  
Project No: 1249B

Sheet No:  
**2**  
of  
**3**

