S I T E P L A N S

GOODWILL COMMUNITY FOUNDATION®

DONATION AND RETAIL STORE

1745 SIR TYLER DRIVE, WILMINGTON, NORTH CAROLINA 28405

CONTRACTOR NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES (ABOVE AND BELOW GROUND) PRIOR TO CONSTRUCTION. ANY CONFLICTS OR RELOCATION OF UTILITIES SHALL BE COORDINATED BETWEEN THE CONTRACTOR AND THE APPROPRIATE UTILITY COMPANY AND/OR AUTHORITY.
2. THE CONTRACTOR SHALL OBTAIN A COPY OF THE CURRENT STANDARDS AND SPECIFICATIONS TO REFER TO PRIOR TO AND DURING CONSTRUCTION OF THE PROJECT.
3. THE CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS FROM THE CITY OF WILMINGTON PRIOR TO UTILITY CONSTRUCTION.
4. PRIOR TO ANY CONSTRUCTION WITHIN THE RIGHT-OF-WAY THE GENERAL CONTRACTOR TO VERIFY WITH CIVIL ENGINEER THAT ALL ENCROACHMENT PERMITS HAVE BEEN OBTAINED.
5. GC TO VERIFY RECEIPT OF FINAL PLANS WITH PROJECT ADMINISTRATOR AND CIVIL ENGINEER PRIOR TO ORDERING STORM STRUCTURES AND PIPE.
6. NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS.

SURVEY INFORMATION

NEWCOMB LAND SURVEYORS LIC.
244 W MILLBROOK RD RALEIGH, NC 27609
919-847-1800 FIRM'S LICENSURE NUMBER: L-2444
GIS INFORMATION PROVIDED BY NEW HANOVER COUNTY, NC

GEMERAL NOTES:

1. THE EXISTING STORMWATER POND WAS ORIGINALLY DESIGNED TO HANDLE THE RUN OFF FROM THIS SITE TO 85% IMPERVIOUS.
2. SOIL TYPE – Wr WRIGHTSBORO – PER MAP SHEET 16 OF THE NEW HONOVER COUNTY SOIL MAP.
3. THERE ARE NO CAMA AREAS OF CONCERN (AEC) ON THIS SITE.
4. CAMA LAND CLASSIFICATION–WATERSHED RESOURCE PROTECTION AREA.
5. SITE IS NOT RECOGNIZED AS A LOCAL, STATE OR FEDERALLY HISTORIC OR ARCHAEOLOGICAL SITE.
6. THERE ARE NO CEMETERIES, BURIAL SITES OR BURIAL GROUNDS ON THIS SITE.
7. THERE ARE NO SECTION 404 WETLANDS OR SECTION 10 WATERS ON THIS SITE.
8. ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF BUILDING, PROPERTY LINE, OR EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE.
9. ALL TRAFFIC AND HANDICAP PARKING SIGNS SHALL CONFORM TO MUTCD AND ADA STANDARDS.
10. SITE SIGNAGE SHALL BE PERMITTED UNDER SEPARATE SITE SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). AS APPLICABLE.
11. PROPOSED SPOT ELEVATIONS ARE SHOWN AT FINISHED GRADE.
12. ALL SLOPES SHALL BE 2:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
13. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT PRIOR TO START OF ANY EARTHWORK ACTIVITY.
14. GENERAL CONTRACTOR TO INSTALL NEW PAVEMENT SECTION PER SOIL ENGINEER SPECIFICATIONS.
15. GRADING PERMIT TO BE ISSUED THROUGH HANOVER COUNTY SEDIMENT CONTROL SECTION.
16. CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.

CITY OF WILMINGTON NOTES:

1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
2. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
3. ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING (RICHIE BROWN) TO REQUEST INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
4. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
5. CONTACT TOM PLATT WITH TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. ADD A NOTE TO CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
6. ANY BROKEN OR MISSING SIDEWALK PANELS WILL BE REPLACED.
7. CONTACT KAREN DIXON AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
8. PROJECT SHALL COMPLY WITH CITY OF WILMINGTON CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 343-3910 FOR INFORMATION.
9. IF THE CONTRACTOR DESIRES CITY WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
10. ANY IRRIGATION SYSTEM SUPPLIED BY CITY WATER SHALL COMPLY WITH THE CITY'S CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
11. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCCCHR OR ASSE.
12. CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.

FEMA NOTE:

THERE IS NO 100 YEAR FLOODPLAIN ON THIS PROPERTY PER FEMA MAP NO. 3720315800J, EFFECTIVE DATE APRIL 3, 2006.

LEGEND:

SYMBOLS
- EX. IRON PIPE/ROD OR NAIL
- EX. CONCRETE MONUMENT
- NEW IRON PIPE
- CALCULATED POINT
- CABLE PEDESTAL
- TELEPHONE PEDESTAL
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- EXISTING LAMP POST
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LINETYPES
- X — FENCE
- OU — OVERHEAD UTILITY
- W — WATER
- SS — SANITARY SEWER
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ABBREVIATIONS

DB	DEED BOOK
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N/F	NOW OR FORMERLY
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RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
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CURVE TABLE

CURVE	LENGTH	RADIUS	CHORD	BEARING
C1	128.04	280.00	126.93	N82°17'15"E

LINE TABLE:

LINE	LENGTH	BEARING
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L2	17.46	N81°38'11"E
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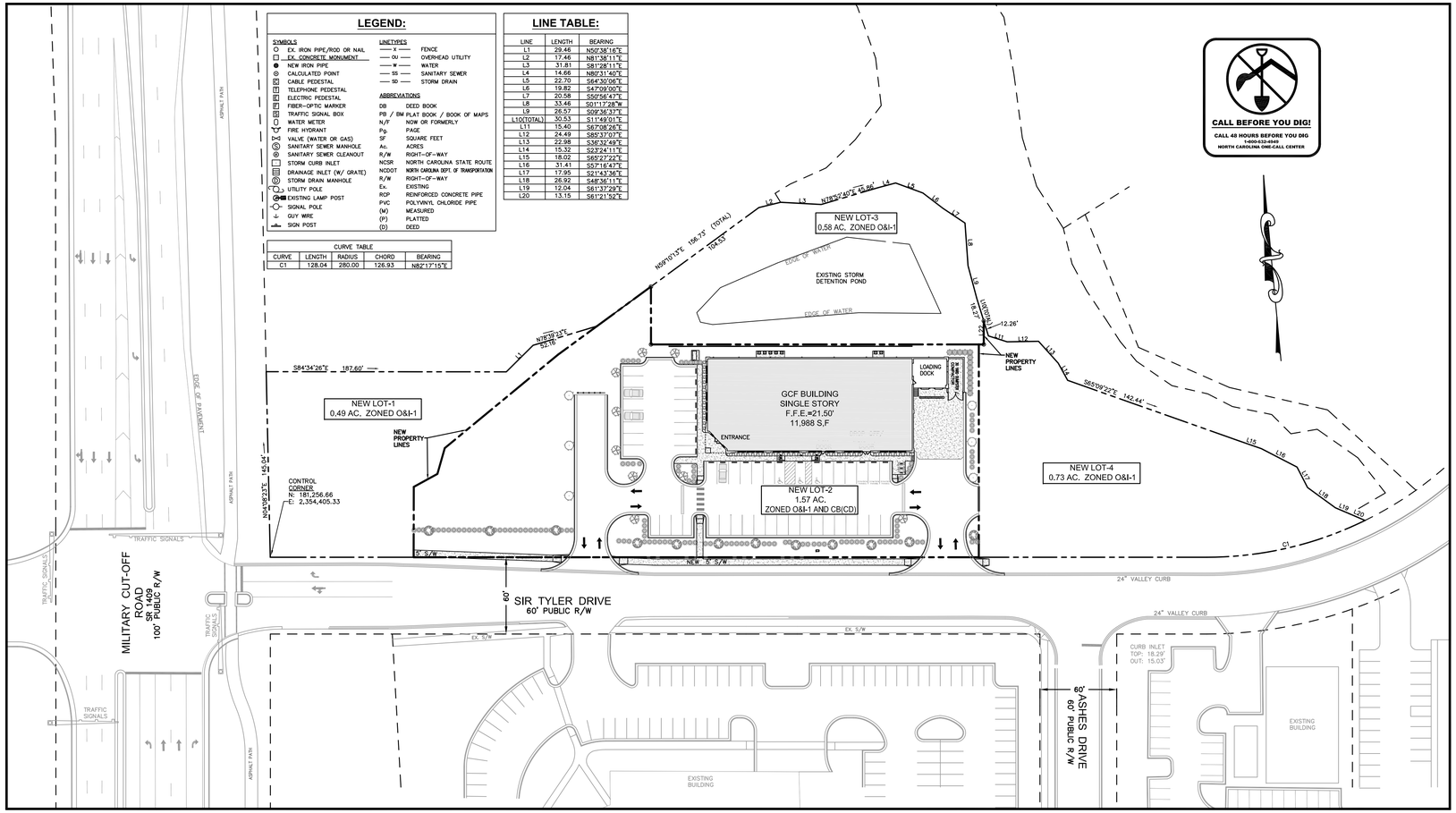
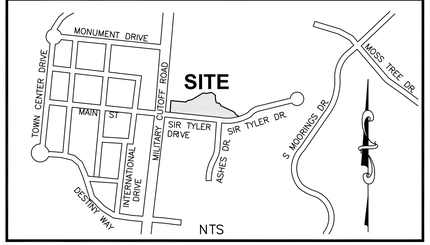


VICINITY MAP



SITE DATA TABLE

ASSIGNED ADDRESS:	1745 SIR TYLER DRIVE WILMINGTON, NC 28405
BOOK OF MAPS:	MB 51, PG 21
PARCEL ID:	315818.41.8314.000
OWNER:	WESTFALL RESEARCH PARK 36 ACRE 1202 EASTWOOD ROAD WILMINGTON, NC 28403
TOTAL ACREAGE:	3.37 AC
CLASS:	COM-COMMERCIAL
LAND USE CODE:	958-UNUSED LAND
ZONING:	CB (CD) – COMMUNITY BUSINESS DISTRICT (CONDITIONAL DISTRICT) O&I-1 OFFICE & INSTITUTIONAL DISTRICT-1
ZONING OVERLAY:	SPECIAL HIGHWAY OVERLAY DISTRICT
LEGAL DESCRIPTION:	(3.37A)TR E2A WESTFALL PARK SEC 2
IN CITY LIMITS:	WILMINGTON
NEW LOT-2 AREA:	1.57 ACRES (68,345 S.F.)
DISTURBED AREA:	1.5 A.C.
SETBACKS:	
FRONT:	20 FT.
REAR:	10 FT.
SIDE:	0 FT.
IMPERVIOUS AREAS:	
EXISTING:	0 A.C.
PROPOSED:	0.93 A.C. (59%)
BUILDING INFORMATION:	
HEIGHT:	31 FT. MAX. (ONE STORY)
PROPOSED USE:	RETAIL
BUILDING SIZE:	11,988 S.F.
BUILDING LOT COVERAGE:	17.5%
PARKING:	
REQUIRED FOR USED MERCHANDISE STORES	
MAX. 1 PER 225 SQ FT GFA:	11,988 / 225= 53. SPACES
MIN. 1 PER 400 SQ FT GFA:	11,988 / 400= 30 SPACES
PROVIDED:	51 SPACES (INCL. 3 H/C)
BICYCLE SPACES:	
REQUIRED:	5 SPACES PER 100 SPACES (5 MIN.)
PROVIDED:	5 SPACES (THREE RACKS)

SHEET INDEX

CIVIL ENGINEERING PLANS
1. COVER SHEET
2. SITE INVENTORY-EXISTING CONDITIONS PLAN
3. PRELIMINARY MINOR SUBDIVISION PLAN
4. SITE PLAN
5. LANDSCAPE PLAN
6. STORMWATER & DRAINAGE PLAN
7. UTILITY PLAN
8. EROSION CONTROL PLAN
9. STORM DRAINAGE PLAN/PROFILE
10. STORM PIPE DRAINAGE AREAS PLAN
11. SITE DETAILS
12. STORMWATER DETAILS
13. UTILITY DETAILS

ARCHITECTURAL PLANS
A1.1 FLOOR PLAN
A1.2 BUILDING ELEVATIONS

ZONING CONDITIONS:

1. THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL COMPLY WITH APPLICABLE REGULATIONS AND REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE OR ANY OTHER APPLICABLE FEDERAL, STATE OR LOCAL LAW, ORDINANCE OR REGULATION AS WELL AS ANY CONDITION STATED BELOW. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT OR HIGHER STANDARD SHALL APPLY. THE PERMITTED USE SHALL BE RESTRICTED TO RETAIL SALES ESTABLISHMENTS.
2. JURISDICTIONAL WETLANDS ON THE SITE SHALL BE DELINEATED AND SURVEYED AND A NOTIFICATION OF JURISDICTIONAL DETERMINATION SHALL BE ISSUED BY THE ARMY CORPS OF ENGINEERS. ANY WETLAND DISTURBANCE(S) SHALL BE APPROVED BY THE ARMY CORPS OF ENGINEERS.
3. ANY FREESTANDING SIGN(S) ON THE SITE SHALL BE MONUMENT STYLE WITH LANDSCAPING AROUND THE BASE OF THE SIGN; NO POLE SIGNS SHALL BE PERMITTED AND NO INTERNAL ILLUMINATION.
4. ALL EXISTING PROTECTED TREES NOT IMPACTED BY ESSENTIAL SITE IMPROVEMENTS SHALL BE PRESERVED OR MITIGATED.
5. ALL OUTDOOR LIGHTING SHALL BE INSTALLED SO AS NOT TO SHINE DIRECTLY ONTO SURROUNDING PROPERTIES.
6. A CONCEPTUAL SITE LIGHTING PLAN SHALL BE SUBMITTED PRIOR TO CONSTRUCTION RELEASE.
7. ALL ROADWAY AND SIDEWALK IMPROVEMENTS REQUIRED BY THE CITY OF WILMINGTON SHALL BE INSTALLED PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.
8. APPROVAL OF THIS MODIFICATION REQUEST DOES NOT CONSTITUTE TECHNICAL APPROVAL OF THE SITE PLAN. ALL TECHNICAL REVIEW COMMITTEE COMMENTS SHALL BE FOLLOWED PRIOR TO ISSUANCE OF A CONSTRUCTION RELEASE OR FINAL ZONING APPROVAL.
9. IF, FOR ANY REASON, ANY CONDITION FOR APPROVAL IS FOUND TO BE ILLEGAL OR INVALID OR IF THE APPLICANT SHOULD FAIL TO ACCEPT ANY CONDITION FOLLOWING APPROVAL, THE APPROVAL OF THE SITE PLAN FOR THE DISTRICT SHALL BE NULL AND VOID AND OF NO EFFECT AND PROCEEDINGS SHALL BE INSTITUTED TO REZONE THE PROPERTY TO ITS PREVIOUS ZONING CLASSIFICATION.
10. ALL REQUIREMENTS OF THE TECHNICAL REVIEW COMMITTEE SHALL BE MET.
11. ALL CITY, STATE AND FEDERAL REGULATIONS SHALL BE MET.

CONTACTS

APPLICANT/ DEVELOPER:	GOODWILL COMMUNITY FOUNDATION, INC. 4808 CHIN PAGE ROAD DURHAM, NC 27703 OFFICE:(919) 941-9600 ATTN: DENNIS McLAIN
CIVIL/LANDSCAPE	DEVELOPMENT ENGINEERING, INC. 244 W. MILLBROOK ROAD, RALEIGH, NC 27619 PHONE: 919-847-8300 FAX: 919-847-2130 ATTN: DAVID BLEVINS
ARCHITECT:	DESIGN DEVELOPMENT ARCHITECTS 800 SALEM WOODS DR., SUITE 102 RALEIGH, NC 27615 PHONE: 919-848-4474 ATTN: T.J. (TOM) MULDER

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

50 0 25 50 100
GRAPHIC SCALE: 1 INCH = 50 FEET

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY WILMINGTON, NC

SCALE: 1"=50'
ORIGINAL DATE: 05-09-13
LATEST REVISION DATE:
PROJECT NO.: 11-164

COVER SHEET

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22650 DAVID H. BLEVINS 05-09-13

DEVELOPMENT ENGINEERING, INC.
Professional Engineering Consultants
244 West Millbrook Road, Raleigh, NC 27609
P. O. Box 17705, Raleigh, NC 27619
www.d-e-inc.com
Phone: 919-847-8300
Fax: 919-847-2130
E-mail: Office@d-e-inc.com

SHEET NO. 1 OF 13

Z:\PROJECTS\11164 GCF - Sir Tyler Dr - Wilmington\DWG\DD_11-164 BM_SHEET 1-13.dwg, C1 COVER, 5/9/2013 6:57:56 AM, Brian, STANDARD 26 BY 24 PDF SHEET.pc3, PostScript Custom Page Size, 1:1

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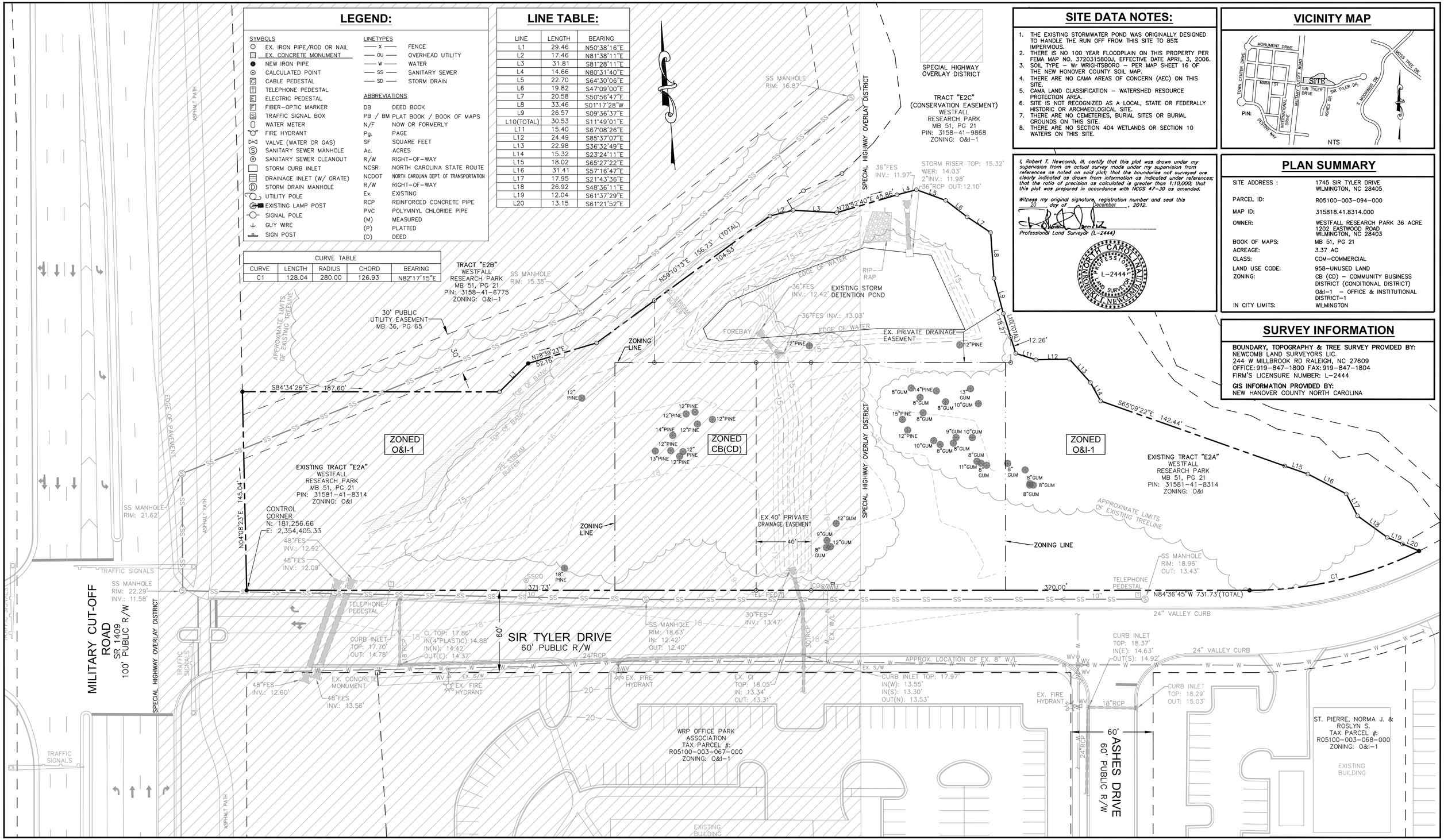

SITE DATA NOTES:

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8. THERE ARE NO SECTION 404 WETLANDS OR SECTION 10 WATERS ON THIS SITE.

VICINITY MAP

I, Robert T. Newcomb, III, certify that this plat was drawn under my supervision from an actual survey made under my supervision from references as noted on said plat; that the boundaries not surveyed are clearly indicated as drawn from information as indicated under references; that the ratio of precision as calculated is greater than 1:10,000; that this plat was prepared in accordance with NCGS 47-30 as amended.

Witness my original signature, registration number and seal this 20 day of December, 2012.

Professional Land Surveyor (L-2444)

NORTH CAROLINA PROFESSIONAL SEAL L-2444 LAND SURVEYOR ROBERT T. NEWCOMB, III

PLAN SUMMARY

SITE ADDRESS :	1745 SIR TYLER DRIVE WILMINGTON, NC 28405
PARCEL ID:	R05100-003-094-000
MAP ID:	315818.41.8314.000
OWNER:	WESTFALL RESEARCH PARK 36 ACRE 1202 EASTWOOD ROAD WILMINGTON, NC 28403
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LAND USE CODE:	958-UNUSED LAND
ZONING:	CB (CD) – COMMUNITY BUSINESS DISTRICT (CONDITIONAL DISTRICT) O&I-1 – OFFICE & INSTITUTIONAL DISTRICT-1
IN CITY LIMITS:	WILMINGTON

SURVEY INFORMATION

BOUNDARY, TOPOGRAPHY & TREE SURVEY PROVIDED BY:
NEWCOMB LAND SURVEYORS LIC.
244 W MILLBROOK RD RALEIGH, NC 27609
OFFICE: 919-847-1800 FAX: 919-847-1804
FIRM'S LICENSURE NUMBER: L-2444

GIS INFORMATION PROVIDED BY:
NEW HANOVER COUNTY NORTH CAROLINA

GRAPHIC SCALE: 1 INCH =30 FEET (30 0 15 30 60)

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY — WILMINGTON, NC

SCALE:	1"=30'
ORIGINAL DATE:	05-09-13
LATEST REVISION DATE:	
PROJECT NO.:	11-164

SITE INVENTORY

NORTH CAROLINA PROFESSIONAL SEAL 22060 ENGINEER DAVID H. BLEVINS — 05-09-13

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Professional Engineering Consultants
244 West Millbrook Road, Raleigh, NC 27609
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Fax: 919-847-2130
E-mail: Office@d-e-inc.com

Z:\PROJECTS\11164 GCF - Sir Tyler Dr - Wilmington\DWG\DD_11-164 BM_SHEET 1-13.dwg, C2 EXISTING, 5/9/2013 6:57:27 AM, Brian, STANDARD 26 BY 24 PDF SHEET.pc3, PostScript Custom Page Size, 1:1

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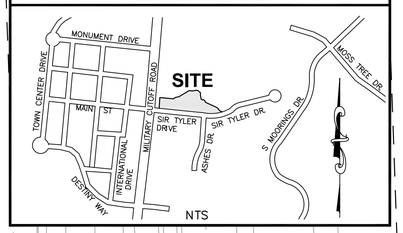

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LEGEND:

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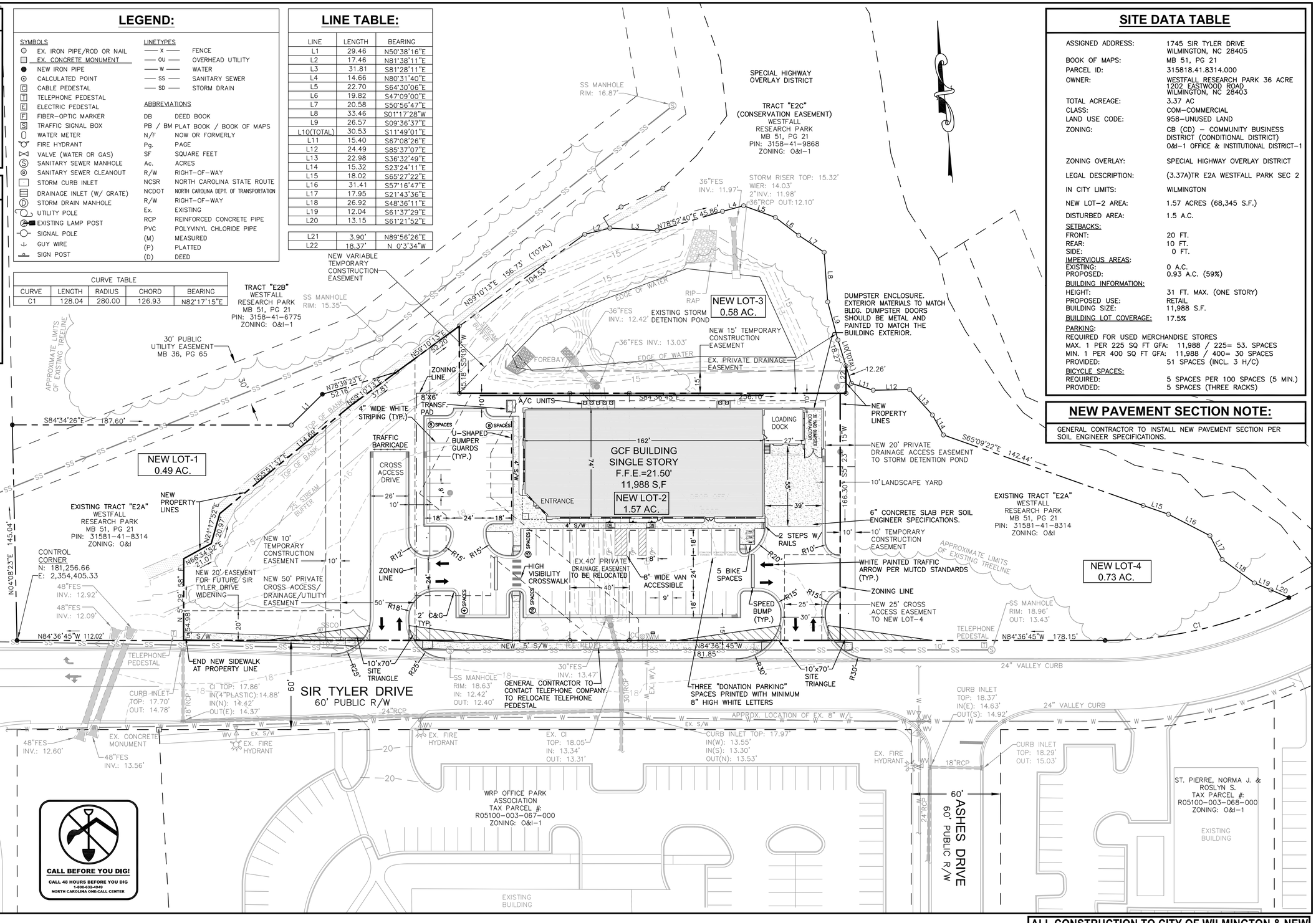
L13	22.98	S36°32'49"E
L14	15.32	S23°24'11"E
L15	18.02	S65°27'22"E
L16	31.41	S57°16'47"E
L17	17.95	S21°43'36"E
L18	26.92	S48°36'11"E
L19	12.04	S61°37'29"E
L20	13.15	S61°21'52"E

L21	3.90'	N89°56'26"E
L22	18.37'	N 0°3'34"W

CURVE TABLE

CURVE	LENGTH	RADIUS	CHORD	BEARING
C1	128.04	280.00	126.93	N82°17'15"E



SITE DATA TABLE

ASSIGNED ADDRESS:	1745 SIR TYLER DRIVE WILMINGTON, NC 28405
BOOK OF MAPS:	MB 51, PG 21
PARCEL ID:	315818.41.8314.000
OWNER:	WESTFALL RESEARCH PARK 36 ACRE 1202 EASTWOOD ROAD WILMINGTON, NC 28403
TOTAL ACREAGE:	3.37 AC
CLASS:	COM-COMMERCIAL
LAND USE CODE:	958-UNUSED LAND
ZONING:	CB (CD) - COMMUNITY BUSINESS DISTRICT (CONDITIONAL DISTRICT) O&I-1 OFFICE & INSTITUTIONAL DISTRICT-1
ZONING OVERLAY:	SPECIAL HIGHWAY OVERLAY DISTRICT
LEGAL DESCRIPTION:	(3.37A)TR E2A WESTFALL PARK SEC 2
IN CITY LIMITS:	WILMINGTON
NEW LOT-2 AREA:	1.57 ACRES (68,345 S.F.)
DISTURBED AREA:	1.5 A.C.
SETBACKS:	
FRONT:	20 FT.
REAR:	10 FT.
SIDE:	0 FT.
IMPERVIOUS AREAS:	
EXISTING:	0 A.C.
PROPOSED:	0.93 A.C. (59%)
BUILDING INFORMATION:	
HEIGHT:	31 FT. MAX. (ONE STORY)
PROPOSED USE:	RETAIL
BUILDING SIZE:	11,988 S.F.
BUILDING LOT COVERAGE:	17.5%
PARKING:	
REQUIRED FOR USED MERCHANDISE STORES	
MAX. 1 PER 225 SQ FT GFA:	11,988 / 225= 53. SPACES
MIN. 1 PER 400 SQ FT GFA:	11,988 / 400= 30 SPACES
PROVIDED:	51 SPACES (INCL. 3 H/C)
BICYCLE SPACES:	
REQUIRED:	5 SPACES PER 100 SPACES (5 MIN.)
PROVIDED:	5 SPACES (THREE RACKS)

NEW PAVEMENT SECTION NOTE:

GENERAL CONTRACTOR TO INSTALL NEW PAVEMENT SECTION PER SOIL ENGINEER SPECIFICATIONS.

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY — WILMINGTON, NC

SCALE: 1"=30'
ORIGINAL DATE: 05-09-13
LATEST REVISION DATE:
PROJECT NO.: 11-164

SITE PLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22060 DAVID H. BEVINS 05-09-13

DEVELOPMENT ENGINEERING, INC.
Professional Engineering Consultants
244 West Millbrook Road, Raleigh, NC 27609
P. O. Box 17705, Raleigh, NC 27619
www.d-e-inc.com
Phone: 919-847-8300
Fax: 919-847-2130
E-mail: Office@d-e-inc.com

SHEET NO. 4 OF 13

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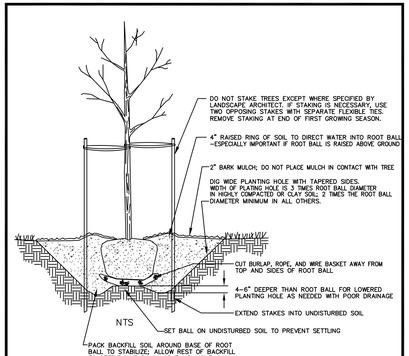
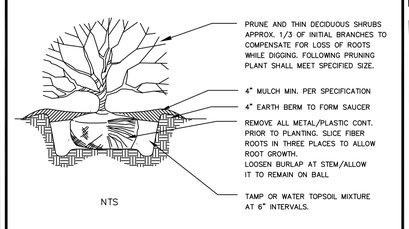


NOTES:
1. WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE, TILL IN SOIL AMENDMENTS TO A DEPTH OF 4–6" (10–15CM) OVER THE ENTIRE AREA
2. FOR CONTAINER–GROWN TREES, USE FINGERS OR SMALL OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
3. DURING THE DESIGN PHASE, CONFIRM THAT WATER DRAINS OUT OF THE SOIL; USE LOWERED PLANTING HOLE DEPTH AND DESIGN ALTERNATE DRAINAGE SYSTEM AS REQUIRED.
4. THOROUGHLY SOAK ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
5. THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
6. DO NOT WRAP TRUNK; MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
7. AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING. OTHERWISE, DO NOT PRUNE TREE AT PLANTING EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS
8. BEFORE PLANTING, ADD 3–4" OF WELL–COMPOSTED LEAVES, RECYCLED YARD WASTE OR OTHER COMPOST AND TILL INTO TOP 6" OF PREPARED SOIL. ADD COMPOST AT 20–35% BY VOLUME TO BACKFILL SOIL. ADD COMPOST AT 20–35% BY VOLUME TO BACKFILL

TREE PLANTING DETAIL



NOTES:
1. SOIL MIX–1/3 ORGANIC MATTER, 2/3 EXIST SOIL.
2. WIDTH OF PLANT PIT
   –SANDY SOIL, 24" WIDER THAN PLANT BALL
   –CLAY SOIL, 12" WIDER THAN PLANT BALL
3. FOR PLANTING AREAS WHERE SOIL HAS BEEN COMPACTED BY EQUIP. CONTACT LA PRIOR TO PLANTING.
4. FOR CAMELLIAS, RHODOS, AZALEAS, AND LAURELS: SOIL MIX, 2/3 ORGANIC AND 1/3 EXISTING SOIL.
5. SHRUB SHALL BEAR SAME RELATIONSHIP TO GRADE AS IT DID PRIOR TO DIGGING.

SHRUB PLANTING DETAIL

LANDSCAPE NOTES:

1. NO PLANTINGS OVER THIRTY (30) INCHES IN HEIGHT ALLOWED IN VISION CLEARANCE.
2. PROTECTION FROM VEHICULAR TRAFFIC PROVIDED AROUND ALL LANDSCAPING WITH A MINIMUM HEIGHT OF SIX (6) INCHES.
3. OWNER IS RESPONSIBLE FOR MAINTENANCE TO ENSURE PLANT LIVES AND PROSPERS.
4. PLANTING PLAN SHALL BE APPROVED BY LANDSCAPE DESIGNER PRIOR TO INSTALLATION.
5. LANDSCAPING SHALL BE REQUIRED AT THE ENDS OF ALL PARKING ROWS.
6. A LOW BUFFER SHALL BE REQUIRED WHERE PARKING IS WITHIN FIFTY (50) FEET OF A RIGHT– OF–WAY.
7. LANDSCAPED ISLANDS SHALL BE MINIMUM WIDTH OF TWELVE (12) FEET (BACK OF CURB TO BACK OF CURB) AND MINIMUM OF TWO HUNDRED SIXTEEN (216) SQUARE FEET.
8. A MINIMUM OF FIFTEEN (15) TREES 2 INCHES OR GREATER IN DIAMETER AS MEASURED 6 INCHES ABOVE GROUND PER DISTURBED ACRE.
9. FOR RECOMMENDED PLANT LIST SEE CITY OF WILMINGTON TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL.
10. ALL PLANT MATERIALS TO COMPLY WITH AMERICAN STANDARD FOR NURSERY STOCK ANSI.Z60.
11. PLANT LOCATIONS TO BE APPROVED IN FIELD PRIOR TO INSTALLATION.
12. SUBSTITUTIONS OF PLANT MATERIALS SPECIFIED CAN ONLY OCCUR WITH PRIOR APPROVAL BY LANDSCAPE ARCHITECT AND WAKE COUNTY.
13. ESTABLISH PLANT BED CONFIGURATIONS. LANDSCAPE ARCHITECT TO APPROVE BED LAYOUT IN FIELD.
14. PREPARE PLANT BEDS PER SPECIFICATIONS.
15. INSTALL PLANTS AND MULCH BEDS WITH 3" OF TRIPLE SHREDDED HARDWOOD MULCH, SUBMIT + SAMPLE PRIOR TO INSTALLATION.
16. ESTABLISH MULCH BEDS AROUND EXISTING TREES TO REMAIN.
17. LAWN AREAS TO BE SEEDED; EXCEPT AS NOTED. REFER TO SPECS.
18. LANDSCAPE CONTRACTOR TO GUARANTEE PLANT MATERIALS FOR A ONE YEAR PERIOD FOLLOWING SUBSTANTIAL COMPLETION PER SPECIFICATIONS.
19. AREAS DAMAGED FROM ACTIVITIES OF LANDSCAPE CONTRACTOR TO BE RESEEDED AND ESTABLISHED AT NO ADDITIONAL COST TO THE OWNER.
20. IRRIGATION SYSTEM TO BE EQUIPPED WITH A RAIN SENSOR.

LANDSCAPE CALCULATIONS:

STREET YARD PLANTING CALCULATIONS:

MINIMUM STANDARD:
FOR EVERY SIX HUNDRED (600) SQUARE FEET OF STREET YARD AREA, THE STREET YARD SHALL CONTAIN:

A. ONE (1) CANOPY/SHADE TREE, TWO (2) INCHES MIN. CALIPER. 50' MN. O.C.

B. SIX (6) SHRUBS, TWELVE (12) INCHES IN HEIGHT AT PLANTING. 4' MIN. O.C.

THE STREET YARD IS CALCULATED BY MULTIPLYING THE DESIGNATED STREET YARD FACTOR IN ACCORDANCE WITH THE ZONING DESIGNATION OF THE PROPERTY BY THE LINEAR STREET FRONTAGE OF THE SUBJECT PROPERTY MINUS THE WIDTH OF ALL APPROVED DRIVEWAYS.

ZONING DISTRICTS: CB AND O&I
STREET YARD FACTOR = 18'
LINEAR STREET FRONTAGE = 441.67'
MINUS DRIVEWAY WIDTHS = 30'+26' = 56'
18' X (441.67'– 56') = 6,942 S.F.
6,942 / 600 = 11.57 = 12

TREES REQUIRED: 12 X 1 = 12 TREES
TREES PROVIDED: 12 TREES

SHRUBS REQUIRED: 12 X 6 = 72 SHRUBS
SHRUBS PROVIDED: 72 SHRUBS

FOUNDATION PLANTING CALCULATIONS:

MINIMUM STANDARD:
THE AREA OF THE BUILDING FACADE ADJACENT TO THE PARKING AREA OR INTERNAL DRIVE ISLE SHALL BE COMPUTED AND MULTIPLIED BY A MINIMUM OF TWELVE (12) PERCENT.

BUILDING FACADE AREAS:
SOUTH (FRONT) BUILDING FACADE AREA = 3,188 S.F.
EAST BUILDING FACADE AREA = 1,466 S.F.

REQUIRED (12%) FOUNDATION PLANTING AREAS:
REQUIRED SOUTH (FRONT) PLANTING FACADE AREA = 3,188 S.F. X 0.12% = 383 S.F.
PROVIDED = 422 S.F. – 34 SHRUBS, 4' O.C.

REQUIRED WEST PLANTING FACADE AREA = 1,466 S.F. X 0.12% = 176 S.F.
PROVIDED = 182 S.F. – 13 SHRUBS, 4' O.C.

INTERIOR PARKING & PREIMETER LANDSCAPE CALCULATIONS:

MINIMUM STANDARD:
THE INTERIOR AREA OF A PARKING FACILITY SHALL BE SHADED BY CANOPY TREES EITHER PLANTED OR RETAINED TO PROVIDE TWENTY (20) PERCENT OR GREATER CANOPY COVERAGE AT MATURITY.
PROPOSED VEHICULAR USE AREA= 23,866 S.F.
REQUIRED CANOPY COVERAGE AREA= 23,866 S.F. X 0.20% = 4,773 S.F.
PROVIDED CANOPY COVERAGE AREA= 4,880 S.F.

TREE AND SHRUB PLANTING LIST:

TREES

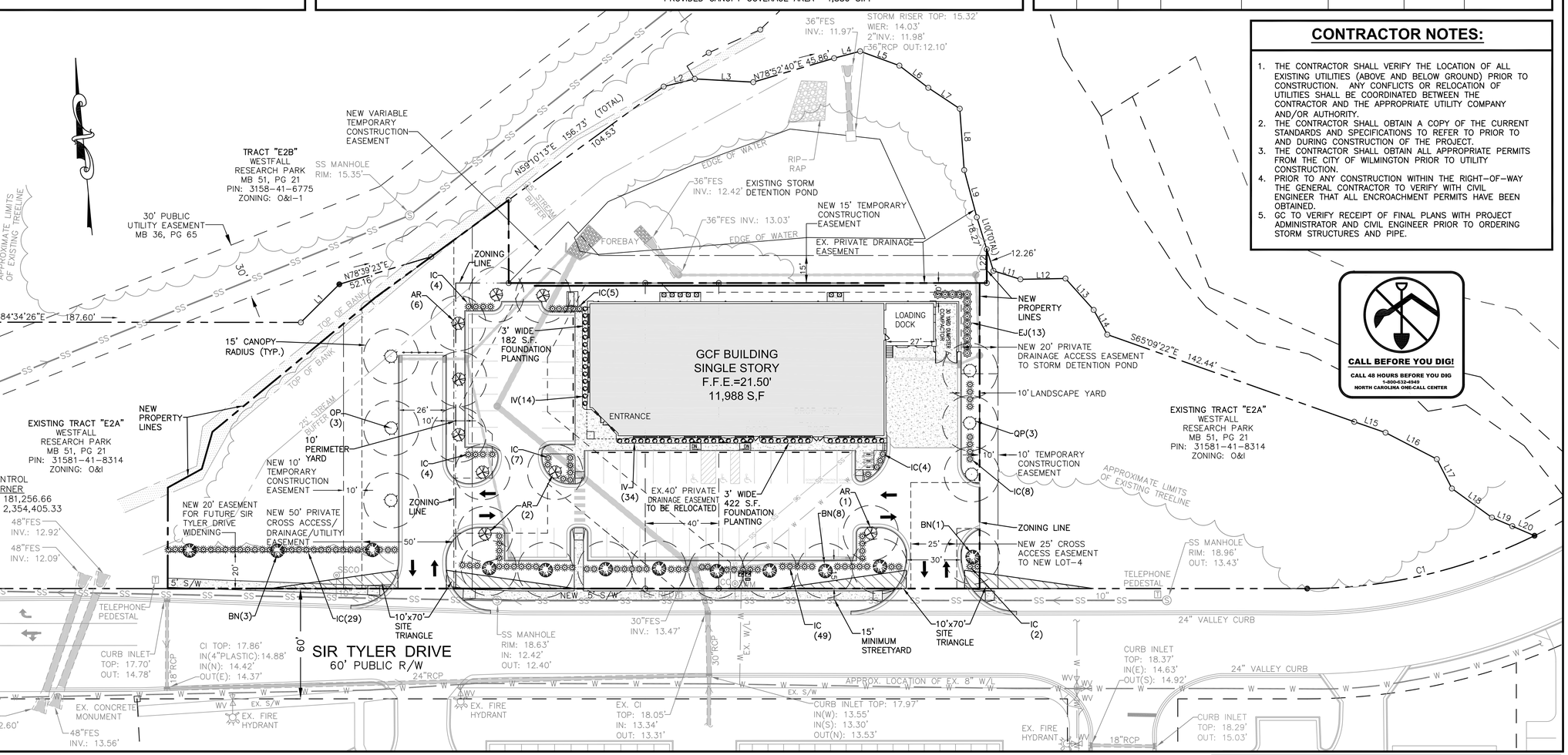
SYMBOL	ABBREV.	QUANTITY	BOTANICAL NAME	COMMON NAME	CLASSIFICATION	CALIPER	ROOT	LOCATION
	BN	12	BETULA NIGRA	RIVER BIRCH	DECIDUOUS TREE	2.5"	B&B	STREET TREES
	AR	9	ACER RUBRUM	RED MAPLE	DECIDUOUS TREE	2.5"	B&B	PARKING SHADE TREES
	QP	6	QUERCUS PHELLOS	WILLOW OAK	DECIDUOUS TREE	2.5"	B&B	PERIMETER TREES

SHRUBS

SYMBOL	ABBREV.	QUANTITY	BOTANICAL NAME	COMMON NAME	CLASSIFICATION	PLANTING HEIGHT	LOCATION
	IC	112	ILEX CORNUTA 'BURFORDI NANA'	DWARF BUFORD HOLLY	EVERGREEN SHRUB	12"	STREETYARD/ PARKING SCREEN 4' O.C.
	IV	48	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	EVERGREEN SHRUB	12"	FOUNDATION 4' O.C.
	EJ	13	EUONYMUS JAPONICA	JAPANESE SPINDLE	EVERGREEN SHRUB	3 FT	DUMPSTER SCREEN 4' O.C.

CONTRACTOR NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES (ABOVE AND BELOW GROUND) PRIOR TO CONSTRUCTION. ANY CONFLICTS OR RELOCATION OF UTILITIES SHALL BE COORDINATED BETWEEN THE CONTRACTOR AND THE APPROPRIATE UTILITY COMPANY AND/OR AUTHORITY.
2. THE CONTRACTOR SHALL OBTAIN A COPY OF THE CURRENT STANDARDS AND SPECIFICATIONS TO REFER TO PRIOR TO AND DURING CONSTRUCTION OF THE PROJECT.
3. THE CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS FROM THE CITY OF WILMINGTON PRIOR TO UTILITY CONSTRUCTION.
4. PRIOR TO ANY CONSTRUCTION WITHIN THE RIGHT–OF–WAY THE GENERAL CONTRACTOR TO VERIFY WITH CIVIL ENGINEER THAT ALL ENCROACHMENT PERMITS HAVE BEEN OBTAINED.
5. GC TO VERIFY RECEIPT OF FINAL PLANS WITH PROJECT ADMINISTRATOR AND CIVIL ENGINEER PRIOR TO ORDERING STORM STRUCTURES AND PIPE.



GRAPHIC SCALE: 1 INCH =30 FEET

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY WILMINGTON, NC

SCALE: 1"=30'
ORIGINAL DATE: 05-09-13
LATEST REVISION DATE:
PROJECT NO.: 11-164

LANDSCAPE PLAN

NORTH CAROLINA PROFESSIONAL SEAL 27080 ENGINEER DAVID H. BLEVINS 05-09-13

DEVELOPMENT ENGINEERING, INC.
Professional Engineering Consultants
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5. GC TO VERIFY RECEIPT OF FINAL PLANS WITH PROJECT ADMINISTRATOR AND CIVIL ENGINEER PRIOR TO ORDERING STORM STRUCTURES AND PIPE.
6. NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL SILT FENCING HAS BEEN INSTALLED AND APPROVED.
6. NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS.

LEGEND:

SYMBOLS

- EX. IRON PIPE/ROD OR NAIL
- EX. CONCRETE MONUMENT
- NEW IRON PIPE
- CALCULATED POINT
- CABLE PEDESTAL
- TELEPHONE PEDESTAL
- ELECTRIC PEDESTAL
- FIBER-OPTIC MARKER
- TRAFFIC SIGNAL BOX
- WATER METER
- FIRE HYDRANT
- VALVE (WATER OR GAS)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- STORM CURB INLET
- DRAINAGE INLET (W/ GRATE)
- STORM DRAIN MANHOLE
- UTILITY POLE
- EXISTING LAMP POST
- SIGNAL POLE
- GUY WIRE
- SIGN POST

LINETYPES

- X — FENCE
- OU — OVERHEAD UTILITY
- W — WATER
- SS — SANITARY SEWER
- SD — STORM DRAIN

ABBREVIATIONS

DB	DEED BOOK
PB / BM	PLAT BOOK / BOOK OF MAPS
N/F	NOW OR FORMERLY
Pg.	PAGE
SF	SQUARE FEET
Ac.	ACRES
R/W	RIGHT-OF-WAY
NCSR	NORTH CAROLINA STATE ROUTE
NCDOT	NORTH CAROLINA DEPT. OF TRANSPORTATION
R/W	RIGHT-OF-WAY
Ex.	EXISTING
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
(M)	MEASURED
(P)	PLATTED
(D)	DEED

LINE TABLE:

LINE	LENGTH	BEARING
L1	29.46	N50°38'16"E
L2	17.46	N81°38'11"E
L3	31.81	S81°28'11"E
L4	14.66	N80°31'40"E
L5	22.70	S64°30'06"E
L6	19.82	S47°09'00"E
L7	20.58	S50°56'47"E
L8	33.46	S01°17'28"W
L9	26.57	S09°36'37"E
L10(TOTAL)	30.53	S11°49'01"E
L11	15.40	S67°08'26"E
L12	24.49	S85°37'07"E
L13	22.98	S36°32'49"E
L14	15.32	S23°24'11"E
L15	18.02	S65°27'22"E
L16	31.41	S57°16'47"E
L17	17.95	S21°43'36"E
L18	26.92	S48°36'11"E
L19	12.04	S61°37'29"E
L20	13.15	S61°21'52"E

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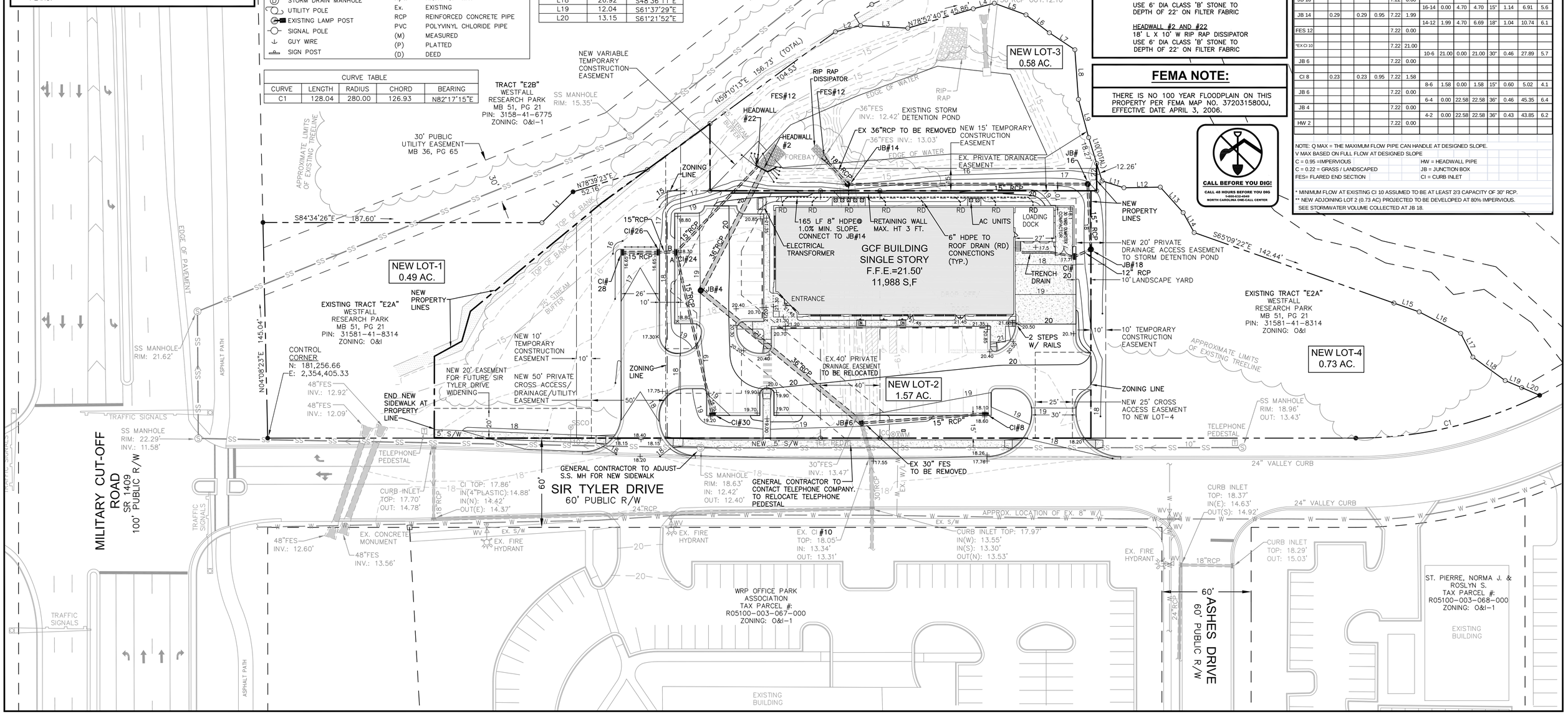

STORMWATER NOTES:

1. THE EXISTING STORMWATER POND WAS ORIGINALLY DESIGNED TO HANDLE THE RUN OFF FROM THIS SITE TO 85% IMPERVIOUS.
2. THERE IS NO 100 YEAR FLOODPLAIN ON THIS PROPERTY PER FEMA MAP NO. 3720315800J, EFFECTIVE DATE APRIL 3, 2006.
3. SOIL TYPE – Wr WRIGHTSBORO – PER MAP SHEET 16 OF THE NEW HONOVER COUNTY SOIL MAP.
4. THERE ARE NO CAMA AREAS OF CONCERN (AEC) ON THIS SITE.
5. CAMA LAND CLASSIFICATION – WATERSHED RESOURCE PROTECTION AREA.
6. THERE ARE NO SECTION 404 WETLANDS OR SECTION 10 WATERS ON THIS SITE.

DISSIPATOR CALCULATIONS:

FES#12
9' L X 5' W RIP RAP DISSIPATOR
USE 6" DIA CLASS 'B' STONE TO
DEPTH OF 22" ON FILTER FABRIC

HEADWALL #2 AND #22
18' L X 10' W RIP RAP DISSIPATOR
USE 6" DIA CLASS 'B' STONE TO
DEPTH OF 22" ON FILTER FABRIC

FEMA NOTE:

THERE IS NO 100 YEAR FLOODPLAIN ON THIS PROPERTY PER FEMA MAP NO. 3720315800J, EFFECTIVE DATE APRIL 3, 2006.

CALL BEFORE YOU DIG!
CALL 48 HOURS BEFORE YOU DIG
1-800-632-4949
NORTH CAROLINA ONE-CALL CENTER

STORMWATER CALCULATIONS:

STORM SEWER DESIGN (Q=CIA) 10-YR STORM

DRAINAGE AREA AND RUNOFF							PIPE DESIGN								
INLET NO.	RUN OFF AREAS, C			AVG. C	t_{10}	RUNOFF IN CFS Q_{10}	PIPE NO.	FROM INLET	FROM PREV. PIPE	TOTAL TO PIPE	DIA.	PIPE SLOPE %	Q (MAX) CFS	V MAX FPS
	0.95	0.22	TOTAL											
CI 30	0.03		0.03	0.95	7.22	0.21								
							30-24	0.21	0.00	0.21	15"	2.19	9.58	7.8
CI 24					7.22	0.00								
CI 28	0.04		0.04	0.95	7.22	0.27								
							28-26	0.27	0.00	0.27	15"	0.83	5.90	4.8
CI 26	0.08	0.04	0.12	0.71	7.22	0.61								
							26-24	0.61	0.27	0.89	15"	0.83	5.90	4.8
CI 24	0.12		0.12	0.95	7.22	0.82								
							24-22	0.82	1.09	1.92	15"	0.69	5.38	4.4
HW 22					7.22	0.00								
CI 20	0.07		0.07	0.95	7.22	0.48								
							20-18	0.48	0.00	0.48	15"	0.83	5.90	4.8
**JB 18	0.58	0.15	0.73	0.80	7.22	4.22								
							18-16	4.22	0.48	4.70	15"	1.14	6.91	5.6
JB 16					7.22	0.00								
							16-14	0.00	4.70	4.70	15"	1.14	6.91	5.6
JB 14	0.29		0.29	0.95	7.22	1.99								
							14-12	1.99	4.70	6.69	18"	1.04	10.74	6.1
FES 12					7.22	0.00								
*EX CI 10					7.22	21.00								
							10-6	21.00	0.00	21.00	30"	0.46	27.89	5.7
JB 6					7.22	0.00								
CI 8	0.23		0.23	0.95	7.22	1.58								
							8-6	1.58	0.00	1.58	15"	0.60	5.02	4.1
JB 6					7.22	0.00								
							6-4	0.00	22.58	22.58	36"	0.46	45.35	6.4
JB 4					7.22	0.00								
							4-2	0.00	22.58	22.58	36"	0.43	43.85	6.2
HW 2					7.22	0.00								

NOTE: Q MAX = THE MAXIMUM FLOW PIPE CAN HANDLE AT DESIGNED SLOPE.
V MAX BASED ON FULL FLOW AT DESIGNED SLOPE
C = 0.95 =IMPERVIOUS — HW = HEADWALL PIPE
C = 0.22 = GRASS / LANDSCAPED — JB = JUNCTION BOX
FES= FLARED END SECTION — CI = CURB INLET

* MINIMUM FLOW AT EXISTING CI 10 ASSUMED TO BE AT LEAST 2/3 CAPACITY OF 30" RCP.
** NEW ADJOINING LOT 2 (0.73 AC) PROJECTED TO BE DEVELOPED AT 80% IMPERVIOUS.
SEE STORMWATER VOLUME COLLECTED AT JB 18.

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY — WILMINGTON, NC

SCALE: 1"=30'
ORIGINAL DATE: 05-09-13
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STORMWATER & DRAINAGE PLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22050 DAVID H. BLEVINS — 05-09-13

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LEGEND:

SYMBOLS

- EX. IRON PIPE/ROD OR NAIL
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- CALCULATED POINT
- CABLE PEDESTAL
- TELEPHONE PEDESTAL
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- WATER METER
- FIRE HYDRANT
- VALVE (WATER OR GAS)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- STORM CURB INLET
- DRAINAGE INLET (W/ GRATE)
- STORM DRAIN MANHOLE
- UTILITY POLE
- EXISTING LAMP POST
- SIGNAL POLE
- GUY WIRE
- SIGN POST

LINETYPES

- —— X —— FENCE
- —— OU —— OVERHEAD UTILITY
- —— W —— WATER
- —— SS —— SANITARY SEWER
- —— SD —— STORM DRAIN

ABBREVIATIONS

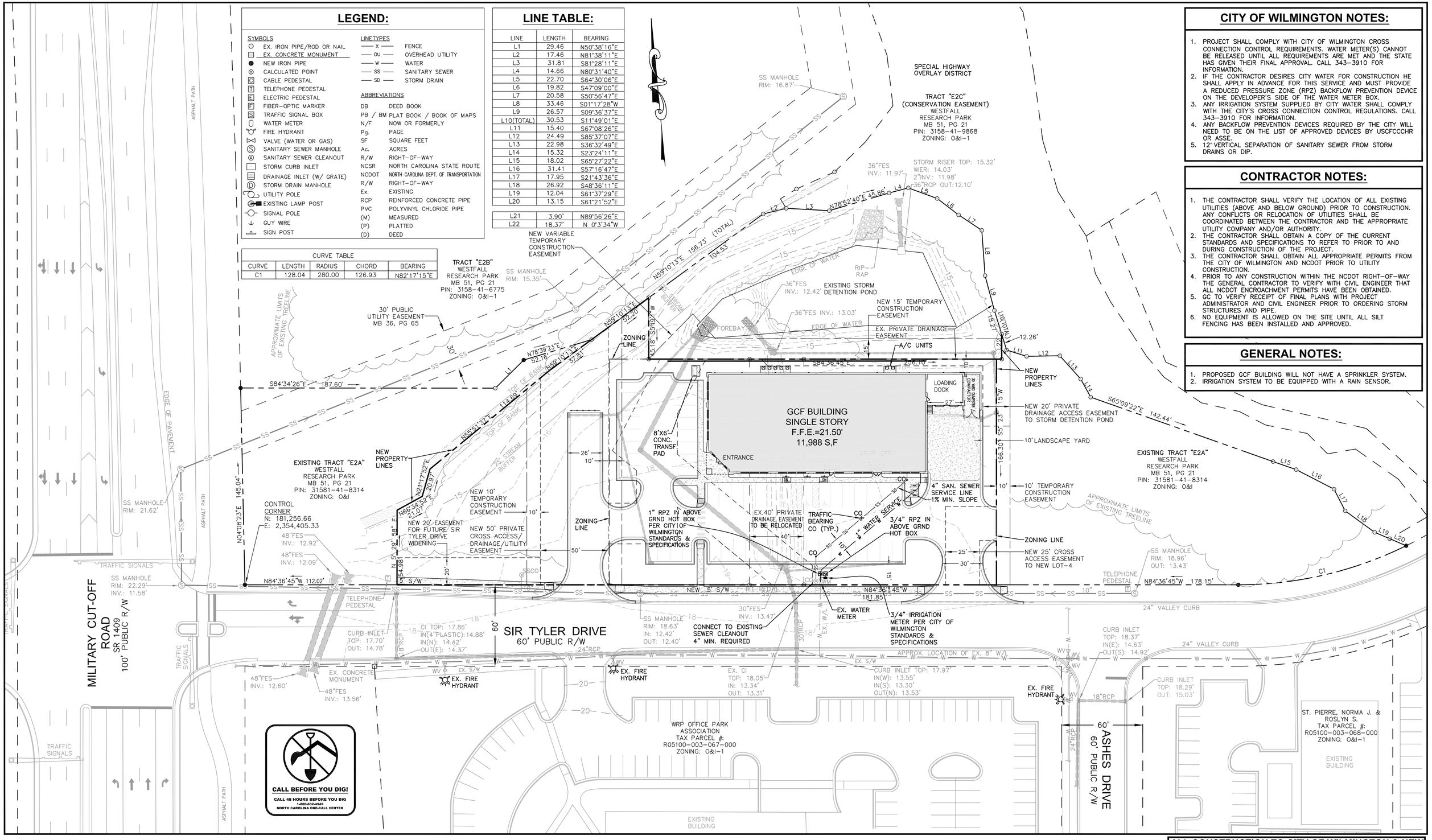
DB	DEED BOOK
PB / BM	PLAT BOOK / BOOK OF MAPS
N/F	NOW OR FORMERLY
Pg.	PAGE
SF	SQUARE FEET
Ac.	ACRES
R/W	RIGHT-OF-WAY
NCSR	NORTH CAROLINA STATE ROUTE
NCDOT	NORTH CAROLINA DEPT. OF TRANSPORTATION
R/W	RIGHT-OF-WAY
Ex.	EXISTING
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
(M)	MEASURED
(P)	PLATTED
(D)	DEED

LINE TABLE:

LINE	LENGTH	BEARING
L1	29.46	N50°38'16"E
L2	17.46	N81°38'11"E
L3	31.81	S81°28'11"E
L4	14.66	N80°31'40"E
L5	22.70	S64°30'06"E
L6	19.82	S47°09'00"E
L7	20.58	S50°56'47"E
L8	33.46	S01°17'28"W
L9	26.57	S09°36'37"E
L10(TOTAL)	30.53	S11°49'01"E
L11	15.40	S67°08'26"E
L12	24.49	S85°37'07"E
L13	22.98	S36°32'49"E
L14	15.32	S23°24'11"E
L15	18.02	S65°27'22"E
L16	31.41	S57°16'47"E
L17	17.95	S21°43'36"E
L18	26.92	S48°36'11"E
L19	12.04	S61°37'29"E
L20	13.15	S61°21'52"E
L21	3.90'	N89°56'26"E
L22	18.37'	N 0°3'34"W

CURVE TABLE

CURVE	LENGTH	RADIUS	CHORD	BEARING
C1	128.04	280.00	126.93	N82°17'15"E



CITY OF WILMINGTON NOTES:

1. PROJECT SHALL COMPLY WITH CITY OF WILMINGTON CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 343-3910 FOR INFORMATION.
2. IF THE CONTRACTOR DESIRES CITY WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
3. ANY IRRIGATION SYSTEM SUPPLIED BY CITY WATER SHALL COMPLY WITH THE CITY'S CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
4. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCCCHR OR ASSE.
5. 12" VERTICAL SEPARATION OF SANITARY SEWER FROM STORM DRAINS OR DIP.

CONTRACTOR NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES (ABOVE AND BELOW GROUND) PRIOR TO CONSTRUCTION. ANY CONFLICTS OR RELOCATION OF UTILITIES SHALL BE COORDINATED BETWEEN THE CONTRACTOR AND THE APPROPRIATE UTILITY COMPANY AND/OR AUTHORITY.
2. THE CONTRACTOR SHALL OBTAIN A COPY OF THE CURRENT STANDARDS AND SPECIFICATIONS TO REFER TO PRIOR TO AND DURING CONSTRUCTION OF THE PROJECT.
3. THE CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS FROM THE CITY OF WILMINGTON AND NCDOT PRIOR TO UTILITY CONSTRUCTION.
4. PRIOR TO ANY CONSTRUCTION WITHIN THE NCDOT RIGHT-OF-WAY THE GENERAL CONTRACTOR TO VERIFY WITH CIVIL ENGINEER THAT ALL NCDOT ENCROACHMENT PERMITS HAVE BEEN OBTAINED.
5. GC TO VERIFY RECEIPT OF FINAL PLANS WITH PROJECT ADMINISTRATOR AND CIVIL ENGINEER PRIOR TO ORDERING STORM STRUCTURES AND PIPE.
6. NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL SILT FENCING HAS BEEN INSTALLED AND APPROVED.

GENERAL NOTES:

1. PROPOSED GCF BUILDING WILL NOT HAVE A SPRINKLER SYSTEM.
2. IRRIGATION SYSTEM TO BE EQUIPPED WITH A RAIN SENSOR.

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY — WILMINGTON, NC

SCALE: 1"=30'
ORIGINAL DATE: 05-09-13
LATEST REVISION DATE:
PROJECT NO.: 11-164

UTILITY PLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22060 DAVID H. BLEVINS 05-09-13

DEVELOPMENT ENGINEERING, INC.
Professional Engineering Consultants
244 West Millbrook Road, Raleigh, NC 27609
P. O. Box 17705, Raleigh, NC 27619
www.d-e-inc.com
Phone: 919-847-8300
Fax: 919-847-2130
E-mail: Office@d-e-inc.com

Z:\PROJECTS\11164 GCF - Sir Tyler Dr - Wilmington\DWG\DD_11-164 BM_SHEET 1-13.dwg, C7 UTILITY, 5/9/2013 6:54:36 AM, Brian, STANDARD 26 BY 24 PDF SHEET.pc3, PostScript Custom Page Size, 1:1

LEGEND:

SYMBOLS

- EX. IRON PIPE/ROD OR NAIL
- EX. CONCRETE MONUMENT
- NEW IRON PIPE
- CALCULATED POINT
- CABLE PEDESTAL
- TELEPHONE PEDESTAL
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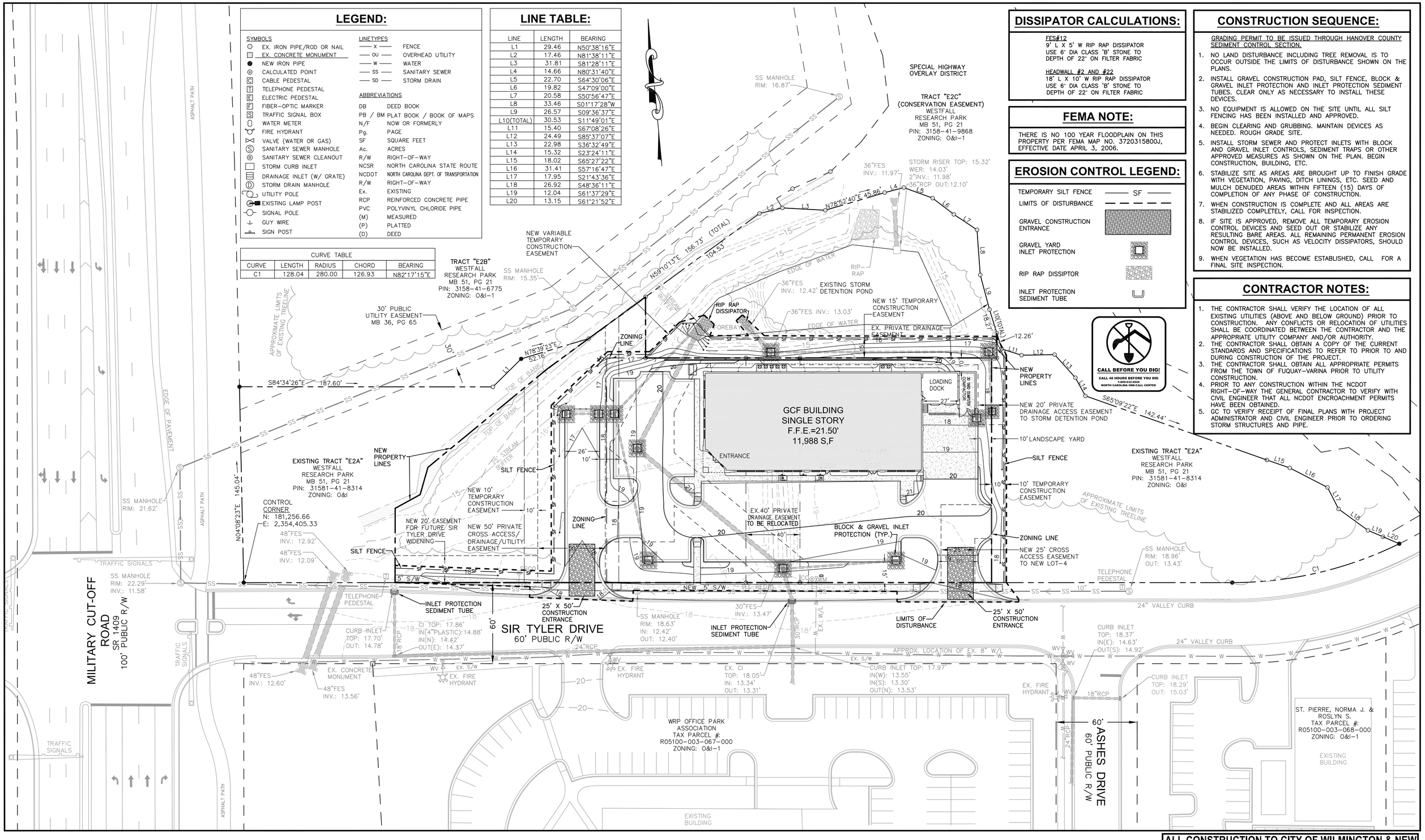

DISSIPATOR CALCULATIONS:

FES#12
9' L X 5' W RIP RAP DISSIPATOR
USE 6" DIA CLASS 'B' STONE TO DEPTH OF 22" ON FILTER FABRIC

HEADWALL #2 AND #22
18' L X 10' W RIP RAP DISSIPATOR
USE 6" DIA CLASS 'B' STONE TO DEPTH OF 22" ON FILTER FABRIC

FEMA NOTE:

THERE IS NO 100 YEAR FLOODPLAIN ON THIS PROPERTY PER FEMA MAP NO. 3720315800J, EFFECTIVE DATE APRIL 3, 2006.

EROSION CONTROL LEGEND:

- TEMPORARY SILT FENCE — SF —
- LIMITS OF DISTURBANCE
- GRAVEL CONSTRUCTION ENTRANCE
- GRAVEL YARD INLET PROTECTION
- RIP RAP DISSIPTOR
- INLET PROTECTION SEDIMENT TUBE

CONSTRUCTION SEQUENCE:

GRADING PERMIT TO BE ISSUED THROUGH HANOVER COUNTY SEDIMENT CONTROL SECTION.

1. NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS.
2. INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE, BLOCK & GRAVEL INLET PROTECTION AND INLET PROTECTION SEDIMENT TUBES. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
3. NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL SILT FENCING HAS BEEN INSTALLED AND APPROVED.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS WITHIN FIFTEEN (15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL FOR INSPECTION.
8. IF SITE IS APPROVED, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
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ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY — WILMINGTON, NC

SCALE: 1"=30'
ORIGINAL DATE: 05-09-13
LATEST REVISION DATE:
PROJECT NO.: 11-164

DENUDED AREA = 1.5 AC.

EROSION CONTROL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22650 DAVID H. BLEVINS 05-09-13

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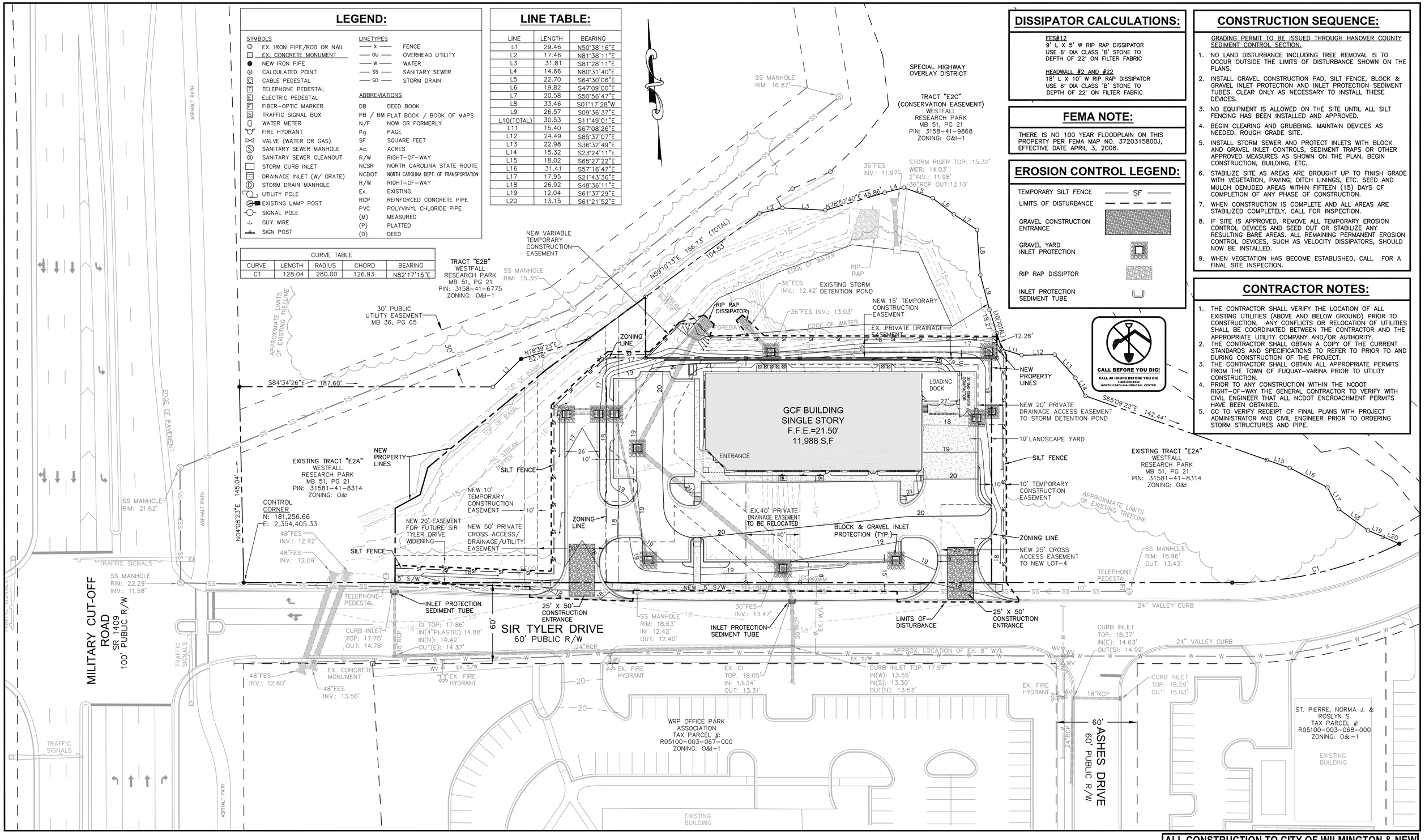

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USE 6" DIA CLASS 'B' STONE TO DEPTH OF 22" ON FILTER FABRIC

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1745 SIR TYLER DRIVE
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SCALE: 1"=30'
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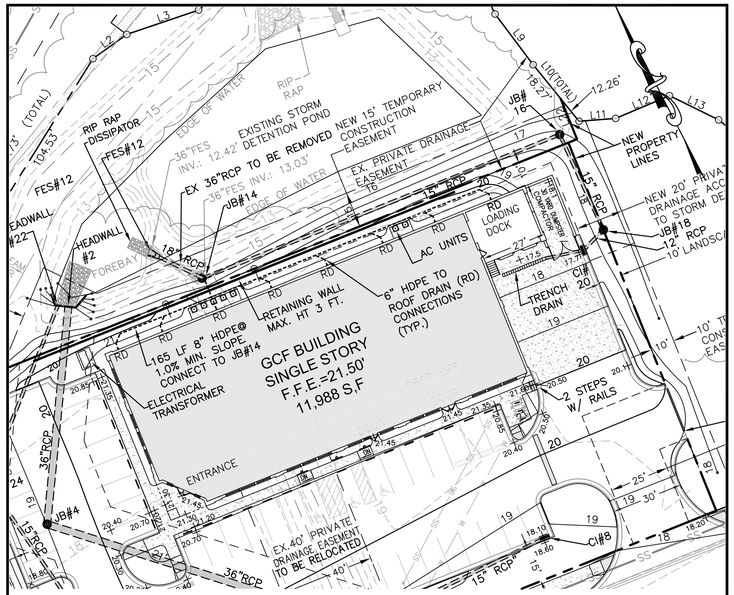
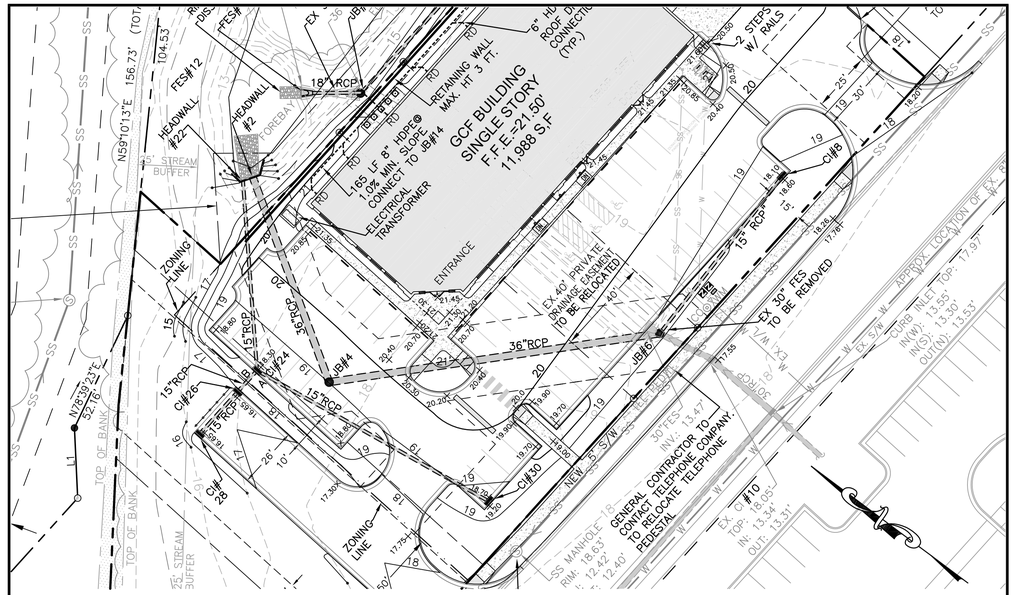
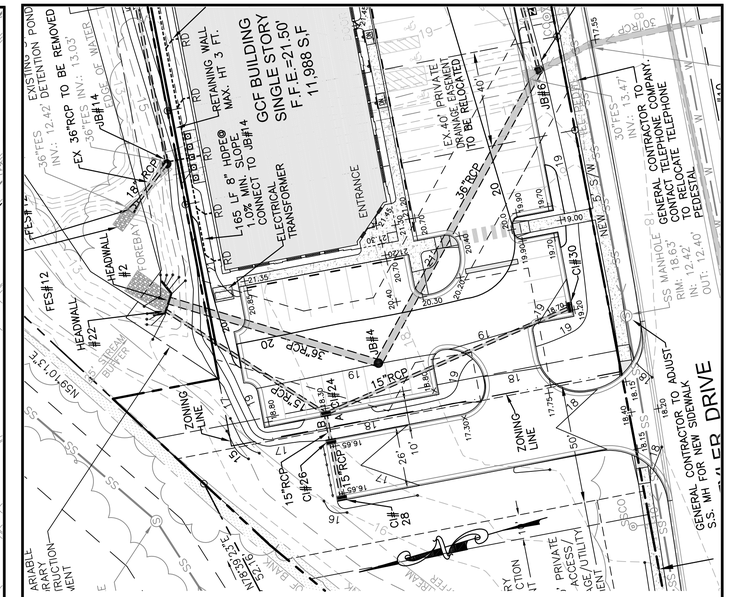


S.D. PLAN FES #12 - CI#20



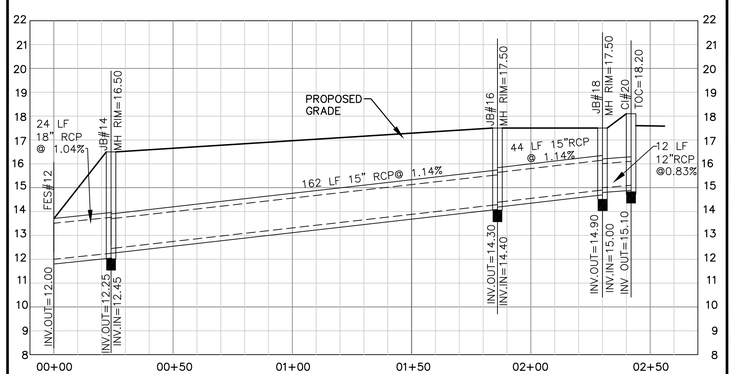
S.D. PLAN HEADWALL #2 - EX. CI#10

S.D. PLAN JB #6 - EX. CI#8

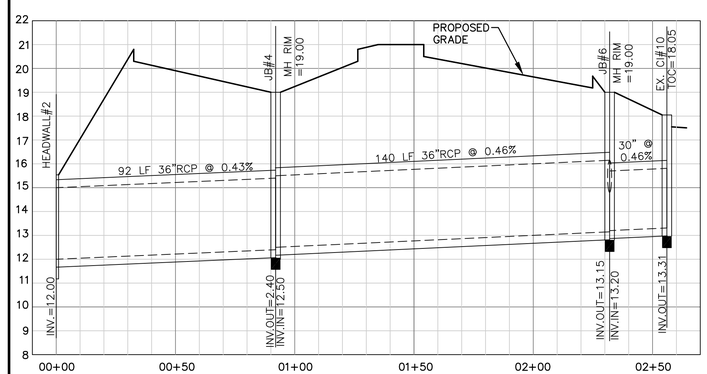


S.D. PLAN HEADWALL #22 - CI #28

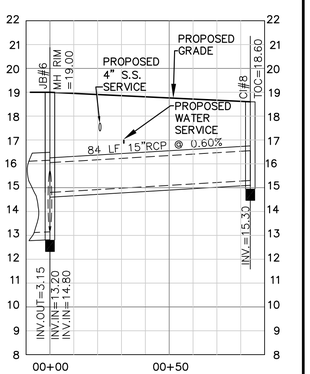
S.D. PLAN CI #24 - CI #30



S.D. PROFILE FES #12 - CI #20



S.D. PROFILE HEADWALL #2 - EX. CI #10



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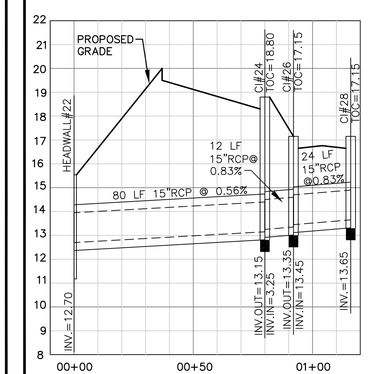

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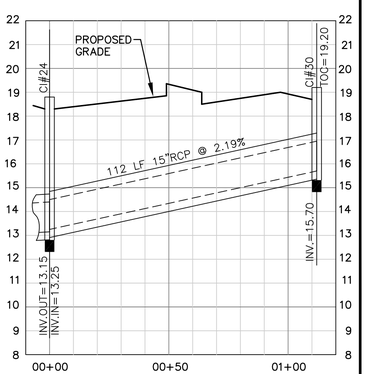

S.D. PROFILE CI #24 - CI #30

CALL BEFORE YOU DIG!
CALL 48 HOURS BEFORE YOU DIG
1-800-632-4949
NORTH CAROLINA ONE-CALL CENTER

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3. THE CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS FROM THE CITY OF WILMINGTON PRIOR TO UTILITY CONSTRUCTION.
4. PRIOR TO ANY CONSTRUCTION WITHIN THE RIGHT-OF-WAY THE GENERAL CONTRACTOR TO VERIFY WITH CIVIL ENGINEER THAT ALL ENCROACHMENT PERMITS HAVE BEEN OBTAINED.
5. GC TO VERIFY RECEIPT OF FINAL PLANS WITH PROJECT ADMINISTRATOR AND CIVIL ENGINEER PRIOR TO ORDERING STORM STRUCTURES AND PIPE.

ABBREVIATIONS:

CI = CURB INLET
JB = JUNCTION BOX
TOC = TOP OF CURB
MH = TOP OF MANHOLE
FES = FLARED END SECTION

GRAPHIC SCALES

3 0 1.5 3 6
VERTICAL: 1 INCH = 4 FEET

30 0 15 30 60
HORIZONTAL: 1 INCH = 30 FEET

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY WILMINGTON, NC

SCALE: 1"=30'
ORIGINAL DATE: 05-09-13
LATEST REVISION DATE:
PROJECT NO.: 11-164

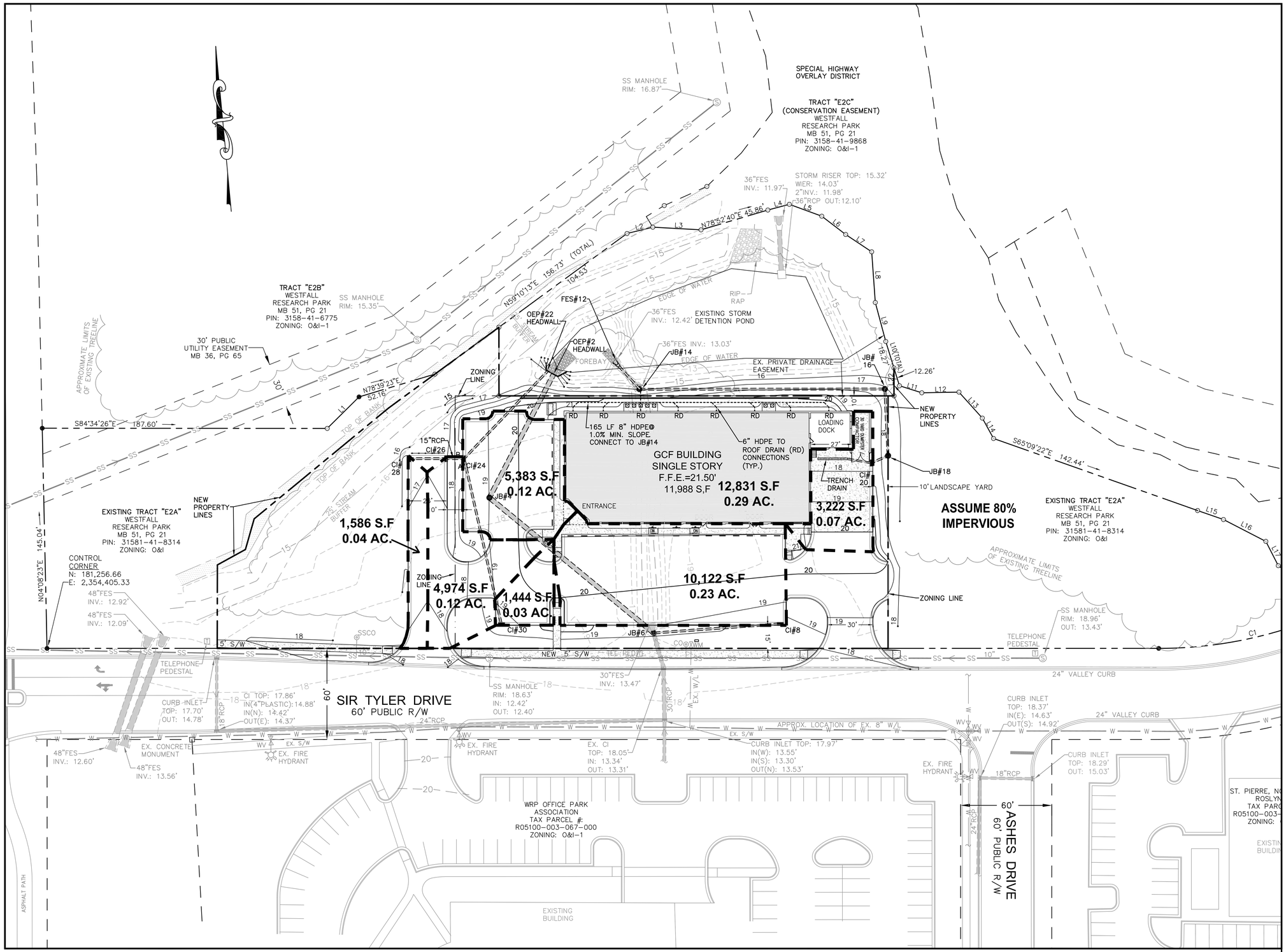
STORM DRAINAGE PLAN & PROFILE

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22060 DAVID H. BLEVINS 05-09-13

DEVELOPMENT ENGINEERING, INC.
Professional Engineering Consultants
244 West Millbrook Road, Raleigh, NC 27609
P. O. Box 17705, Raleigh, NC 27619
www.d-e-inc.com
Phone: 919-847-8300
Fax: 919-847-2130
E-mail: Office@d-e-inc.com

SHEET NO. 9 OF 13

Z:\PROJECTS\11164 GCF - Sir Tyler Dr - Wilmington\DWG\DD_11-164 BM_SHEET 1-13.dwg, C9 SD P&P, 5/9/2013 6:52:57 AM, Brian, STANDARD 26 BY 24 PDF SHEET.pc3, PostScript Custom Page Size, 1:1



CONTRACTOR NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES (ABOVE AND BELOW GROUND) PRIOR TO CONSTRUCTION. ANY CONFLICTS OR RELOCATION OF UTILITIES SHALL BE COORDINATED BETWEEN THE CONTRACTOR AND THE APPROPRIATE UTILITY COMPANY AND/OR AUTHORITY.
2. THE CONTRACTOR SHALL OBTAIN A COPY OF THE CURRENT STANDARDS AND SPECIFICATIONS TO REFER TO PRIOR TO AND DURING CONSTRUCTION OF THE PROJECT.
3. THE CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS FROM THE CITY OF WILMINGTON PRIOR TO UTILITY CONSTRUCTION.
4. PRIOR TO ANY CONSTRUCTION WITHIN THE RIGHT-OF-WAY THE GENERAL CONTRACTOR TO VERIFY WITH CIVIL ENGINEER THAT ALL ENCROACHMENT PERMITS HAVE BEEN OBTAINED.
5. GC TO VERIFY RECEIPT OF FINAL PLANS WITH PROJECT ADMINISTRATOR AND CIVIL ENGINEER PRIOR TO ORDERING STORM STRUCTURES AND PIPE.
6. NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL SILT FENCING HAS BEEN INSTALLED AND APPROVED.
6. NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS.

FEMA NOTE:

THERE IS NO 100 YEAR FLOODPLAIN ON THIS PROPERTY PER FEMA MAP NO. 3720315800J, EFFECTIVE DATE APRIL 3, 2006.

STORMWATER NOTES:

1. THE EXISTING STORMWATER POND WAS ORIGINALLY DESIGNED TO HANDLE THE RUN OFF FROM THIS SITE TO 85% IMPERVIOUS.
2. THERE IS NO 100 YEAR FLOODPLAIN ON THIS PROPERTY PER FEMA MAP NO. 3720315800J, EFFECTIVE DATE APRIL 3, 2006.
3. SOIL TYPE – Wr WRIGHTSBORO – PER MAP SHEET 16 OF THE NEW HONOVER COUNTY SOIL MAP.
4. THERE ARE NO CAMA AREAS OF CONCERN (AEC) ON THIS SITE.
5. CAMA LAND CLASSIFICATION – WATERSHED RESOURCE PROTECTION AREA.
6. THERE ARE NO SECTION 404 WETLANDS OR SECTION 10 WATERS ON THIS SITE.

CALL BEFORE YOU DIG!
CALL 48 HOURS BEFORE YOU DIG
1-800-632-4949
NORTH CAROLINA ONE-CALL CENTER

30 0 15 30 60
GRAPHIC SCALE: 1 INCH =30 FEET

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY — WILMINGTON, NC

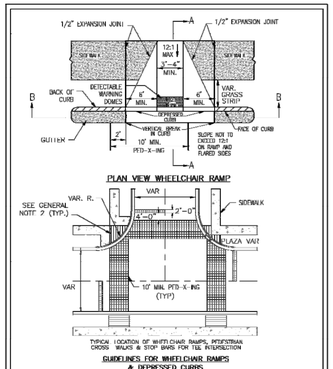
SCALE: 1"=30'
ORIGINAL DATE: 05-09-13
LATEST REVISION DATE:
PROJECT NO.: 11-164

STORM PIPE DRAINAGE AREAS PLAN

NORTH CAROLINA PROFESSIONAL SEAL 27680 ENGINEER DAVID H. BLEVINS 05-09-13

DEVELOPMENT ENGINEERING, INC.
Professional Engineering Consultants
244 West Millbrook Road, Raleigh, NC 27609
P. O. Box 17705, Raleigh, NC 27619
www.d-e-inc.com
Phone: 919-847-8300
Fax: 919-847-2130
E-mail: Office@d-e-inc.com

Z:\PROJECTS\11164 GCF - Sir Tyler Dr - Wilmington\DWG\DD_11-164 BM_SHEET 1-13.dwg, C10 DRN AREAS, 5/9/2013 6:52:28 AM, Brian, STANDARD 26 BY 24 PDF SHEET.pc3, PostScript Custom Page Size, 1:1



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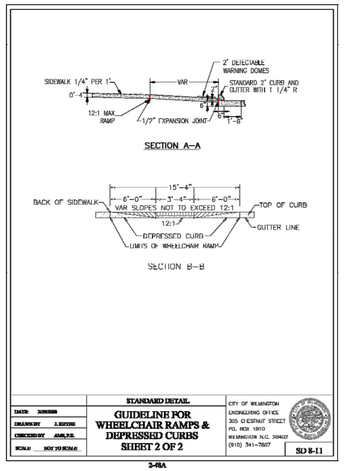

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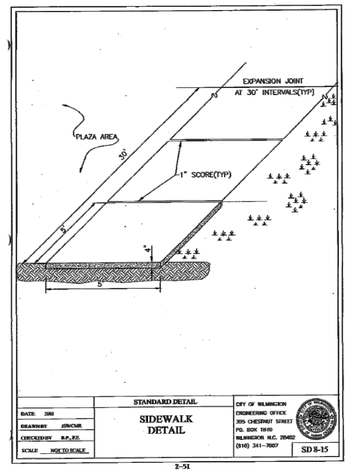

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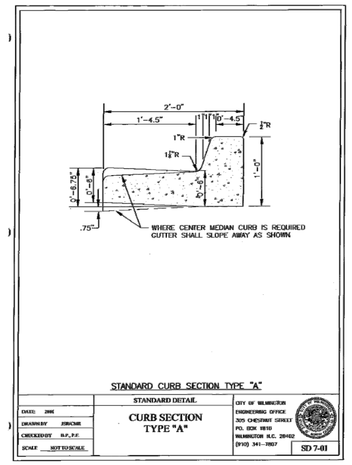
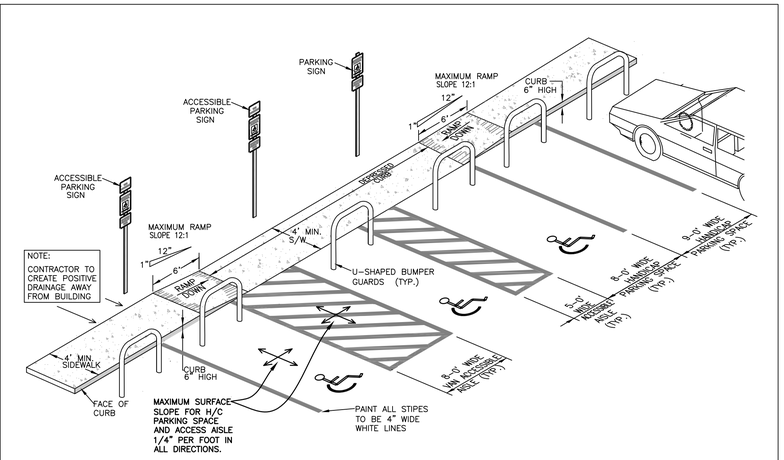
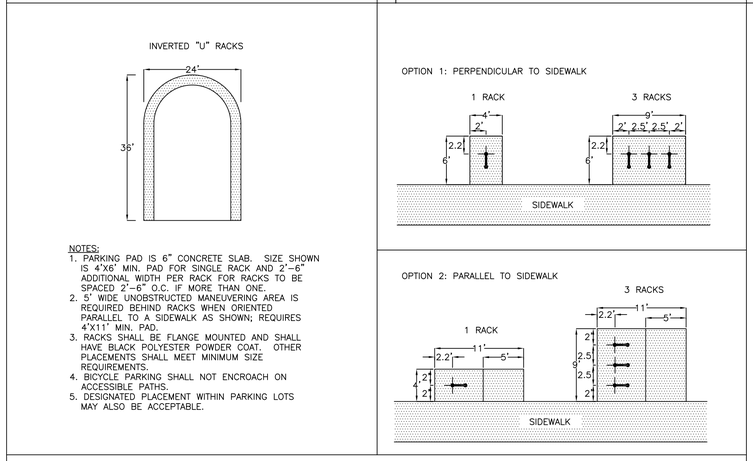


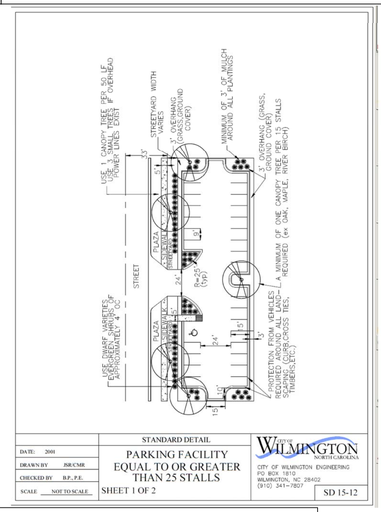


CURB CUT SLOPE DETAIL FOR SIDEWALKS AT HANDICAP PARKING RAMPS



NOTES:
1. PARKING PAD IS 6" CONCRETE SLAB. SIZE SHOWN IS 4'X6' MIN. PAD FOR SINGLE RACK AND 2'-6" ADDITIONAL WIDTH PER RACK FOR RACKS TO BE SPACED 2'-6" O.C. IF MORE THAN ONE.
2. 5' WIDE UNOBSTRUCTED MANEUVERING AREA IS REQUIRED BEHIND RACKS WHEN ORIENTED PARALLEL TO A SIDEWALK AS SHOWN; REQUIRES 4'X11' MIN. PAD.
3. RACKS SHALL BE FLANGE MOUNTED AND SHALL HAVE BLACK POLYESTER POWDER COAT. OTHER PLACEMENTS SHALL MEET MINIMUM SIZE REQUIREMENTS.
4. BICYCLE PARKING SHALL NOT ENCROACH ON ACCESSIBLE PATHS.
5. DESIGNATED PLACEMENT WITHIN PARKING LOTS MAY ALSO BE ACCEPTABLE.

BICYCLE PARKING DETAILS



1. Variances on stall widths, angle and other dimensions will be allowed only upon approval of the Traffic Engineer.
2. Wheel stops shall be required three (3) feet from the end of parking stall when using eighteen (18) feet deep stalls.
3. Curbing, crossties, utility poles, etc., can be used as wheel stops. (Must be anchored down)
4. All medians shall be a minimum of six (6) feet wide.
5. Parking bays which terminate at a circulation way shall provide for a minimum turning radius of twenty-five (25) feet, as measured from the edge of the travel portion.
6. All parking stall markings and lane arrows shall be white.
7. All other pavement markings, signs or other traffic control devices shall conform to the latest edition and/or interpretation of the Manual on Uniform Traffic Control Devices (MUTCD).
8. No obstructions will be allowed adjacent to a parking stall which would prevent safe ingress and egress from a parked vehicle.
9. Parking in fire lanes and in non-residential driveways shall be prevented by standard signs and as needed by portable barricades.

STANDARD DETAIL
PARKING FACILITY DESIGN NOTES
CITY OF WILMINGTON
ENGINEERING OFFICE
305 CHESTNUT STREET
P.O. BOX 1810
WILMINGTON N.C. 28402
(910) 341-7807
SD 15-13

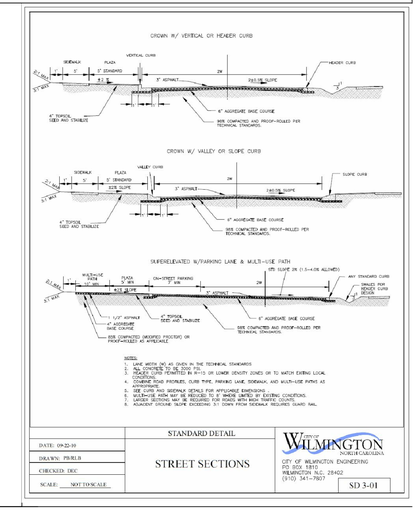
7-55

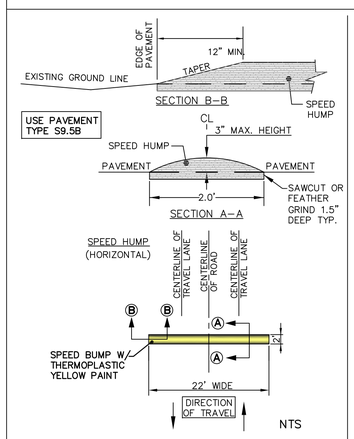
1. No plantings over thirty (30) inches in height allowed in vision clearance.
2. Protection from vehicular traffic provided around all landscaping with a minimum height of six (6) inches.
3. Owner is responsible for maintenance to ensure plant material lives and prospers.
4. Planting plans shall be approved by Landscape Designer prior to installation.
5. Landscaping shall be required at the ends of all parking rows.
6. A low buffer shall be required where parking is within fifty (50) feet of the Right-of-Way.
7. Landscaped islands shall be a minimum width of twelve (12) feet (back of curb to back of curb) and a minimum of two hundred and sixteen (216) square feet.
8. A minimum of fifteen (15) trees 2 inches or greater in diameter as measured 6 inches above ground per disturbed acre.
9. For recommended Plant List see "Landscape" 1-10.4.

LANDSCAPE NOTES
SD 15-14

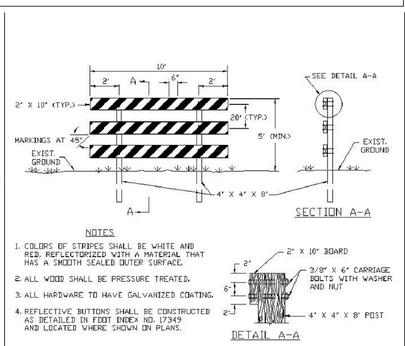
STANDARD DETAIL
LANDSCAPE NOTES
CITY OF WILMINGTON
ENGINEERING OFFICE
305 CHESTNUT STREET
P.O. BOX 1810
WILMINGTON N.C. 28402
(910) 341-7807
SD 15-14

7-56



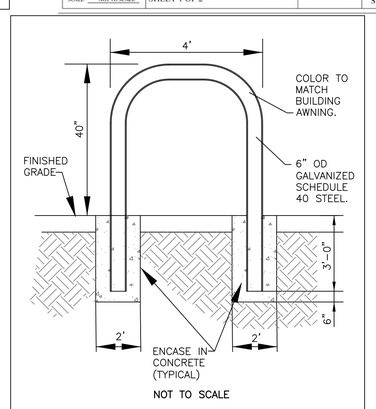


SPEED BUMP DETAIL

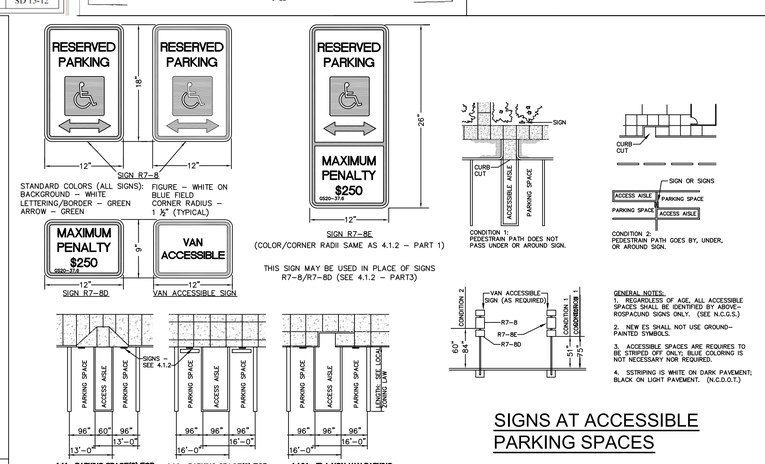


NOTES
1. COLORS OF STRIPES SHALL BE WHITE AND RED, REFLECTORIZED WITH A MATERIAL THAT HAS A SMOOTH SEALED OUTER SURFACE.
2. ALL WOOD SHALL BE PRESSURE TREATED.
3. ALL HARDWARE TO HAVE GALVANIZED COATING.
4. REFLECTIVE BUTTONS SHALL BE CONSTRUCTED AS DETAILED IN FOOT INDEX NO. 17349 AND LOCATED WHERE SHOWN ON PLANS.

TRAFFIC BARRICADE DETAIL



U-SHAPED BUMPER GUARD DETAIL



GENERAL NOTES:
1. REGARDLESS OF AGE, ALL ACCESSIBLE SPACES SHALL BE IDENTIFIED BY ABOVE-ROSPACIND SIGNS ONLY. (SEE N.C.G.S.)
2. NEW ES SHALL NOT USE GROUND-PAINTED SYMBOLS.
3. ACCESSIBLE SPACES ARE REQUIRES TO BE STRIPED OFF ONLY; BLUE COLORING IS NOT NECESSARY NOR REQUIRED.
4. STRIPING IS WHITE ON DARK PAVEMENT; BLACK ON LIGHT PAVEMENT. (N.C.D.O.T.)

SIGNS AT ACCESSIBLE PARKING SPACES

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY
WILMINGTON, NC

SCALE:
ORIGINAL DATE: 05-09-13
LATEST REVISION DATE:
PROJECT NO.: 11-164

SITE DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 22050 ENGINEER DAVID H. BLEVINS
05-09-13

DEVELOPMENT ENGINEERING, INC.
Professional Engineering Consultants
244 West Millbrook Road, Raleigh, NC 27609
P. O. Box 17705, Raleigh, NC 27619
www.d-e-inc.com
Phone: 919-847-8300
Fax: 919-847-2130
E-mail: Office@d-e-inc.com

SHEET NO. 11 OF 13

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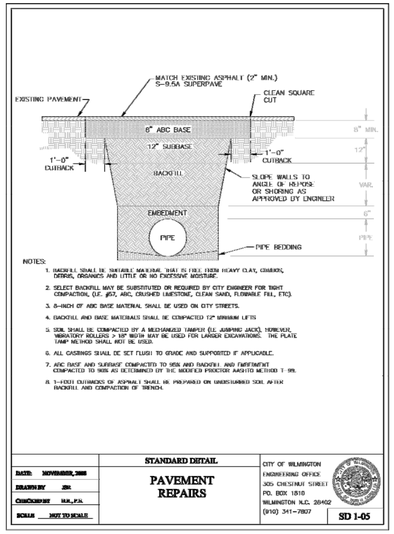

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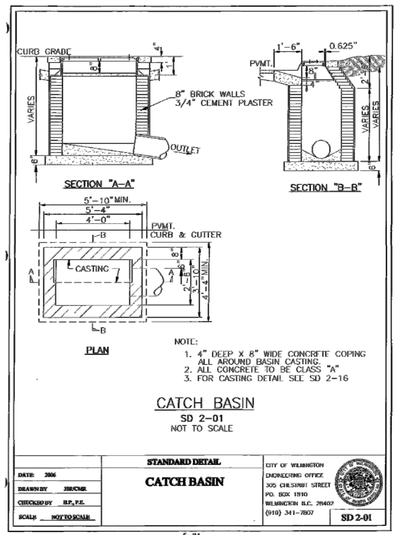

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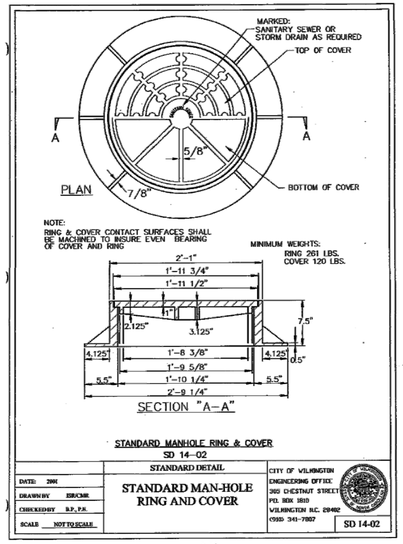

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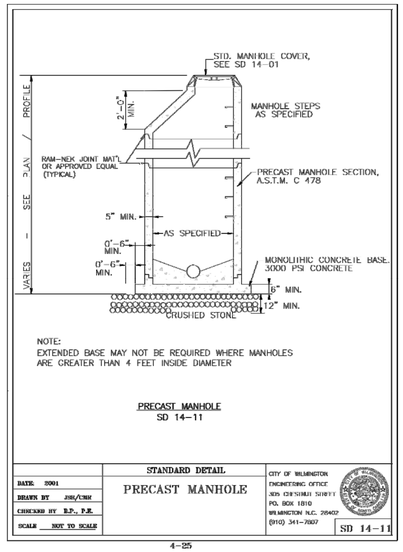

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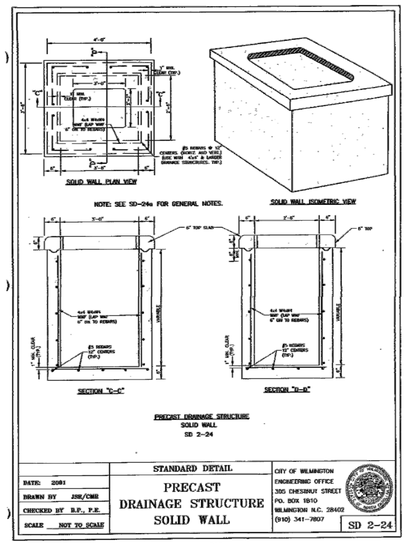


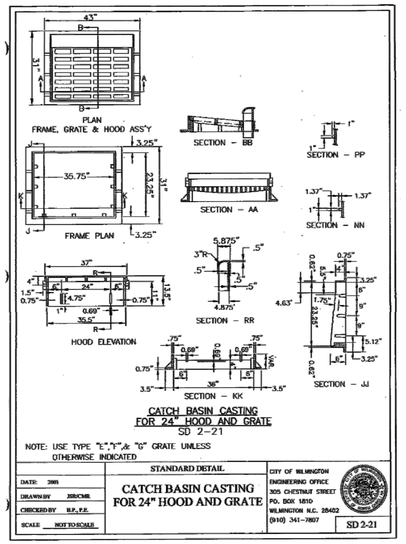
5 - 107

GENERAL NOTES:

* USE 4000 PSI CONCRETE, PROVIDE FOR H-20 TRAFFIC LOADING.
* PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FAVRIC CONFORMING TO ASTM A185,
* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704
* PROVIDE FORMED OPENINGS, FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. SEAL OPENINGS WITH HYDRAULIC CEMENT.
* ALL ELEMENTS PRECAST TO MEET ASTM C913.
* SET ON 6" WASHED STONE
* FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH BRICK.
* PROVIDE PRECAST STURCTURES OVER 4'-0" IN DEPTH WITH STEPS/LADDER INSTALLED IN ACCORDANCE WITH ASHA STANDARD 1910.27 AND AS FIELD CONDITIONS DICTATE.
* WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED,
* SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-19B, TYPE B - BUTYL RUBBER.
* USE FRAME AND GRATE AS PER SD-19.
* GROUT INVERT TO PROVIDE SMOOTH FLOW

STANDARD DETAIL
PRECAST DRAINAGE STRUCTURE GENERAL NOTES
CITY OF WILMINGTON ENGINEERING OFFICE 305 CHESTNUT STREET PO. BOX 1810 WILMINGTON N.C. 28402 (910) 341-7807
DATE: 2001
DRAWN BY: JSH/CMR
CHECKED BY: B.P., P.E.
SCALE: NOT TO SCALE
SD 2-24a

5-108



5-104

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY — WILMINGTON, NC

SCALE:
ORIGINAL DATE: 05-09-13
LATEST REVISION DATE:
PROJECT NO.: 11-164

STORMWATER DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 22060 ENGINEER DAVID H. BLEVINS
05-09-13

DEVELOPMENT ENGINEERING, INC.
Professional Engineering Consultants
244 West Millbrook Road, Raleigh, NC 27609
P. O. Box 17705, Raleigh, NC 27619
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SHEET NO. 12 OF 13

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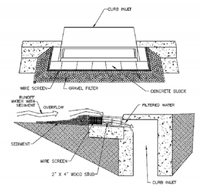
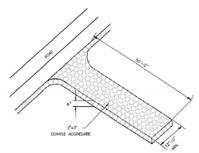
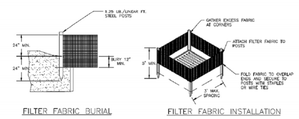


BLOCK AND GRAVEL INLET PROTECTION

TEMPORARY SILT FENCE



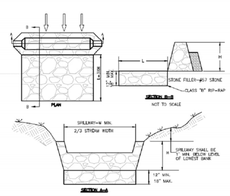
TEMPORARY CONSTRUCTION ENTRANCE



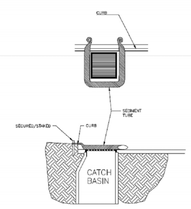
FILTER FABRIC BURIAL

FILTER FABRIC INSTALLATION

LOW FLOW INLET FILTERS



ROCK CHECK DAM



INLET PROTECTION-SEDIMENT TUBE

LAND DISTURBING ACTIVITIES MUST BE MANAGED TO AVOID SEDIMENT RUN-OFF AND POLLUTION FROM CONSTRUCTION SITES.

WHERE PERMITTED LOCALLY BY NEW HANOVER COUNTY, AN EROSION AND SEDIMENT CONTROL (E&SC) PLAN WILL CONTAIN DETAILS AND GUIDANCE. E&SC PLANS ARE PERFORMANCE BASED AND OFTEN REQUIRE ADJUSTMENTS OR REPAIRS.

AS PERMITTED BY NCDENR, DIVISIONS OF WATER QUALITY AND LAND RESOURCES, A STORMWATER PERMIT WILL REQUIRE SELF-MONITORING REPORTS (WEEKLY, >1" RAIN EVENT) OR SELF-INSPECTION REPORTS AFTER EACH CONSTRUCTION PHASE, BASED ON ELEMENTS OF THE E&SC PLAN.

DATE: SEPTEMBER, 2012	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	GUIDELINES FOR SEDIMENT CONTROL BMPs	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY BDR, P.E.		
SCALE NOT TO SCALE		SD 3-104

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPER PHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW*).
5. CONTINUE TILLAGE UNTIL A WELL PULVERIZED FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON. IF POSSIBLE, IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

* APPLY: AGRICULTURAL LIMESTONE – 2 TONS/ACRE
FERTILIZER – 10-10-10 ANALYSIS AT 800-1,000 LBS./ACRE
SUPER PHOSPHATE – 500 LBS.\ACRE OF 20% ANALYSIS SUPER PHOSPHATE
MULCH – 2 TONS (APPROX. 80 BALES) SMALL GRAIN STRAW/ACRE
ANCHOR –TACK WITH LIQUID ASPHALT AT 400 GALLONS/ACRE OR EMULSIFIED ASPHALT AT 300 GALLONS/ACRE

SEEDING SCHEDULE

PERMANENT SEEDING – SHOULDERS, SIDE DITCHES, SLOPES (MAX. 3:1)

DATE	TYPE	PLANTING RATE
AUG. 15 – NOV. 1	TALL FESCUE	200 LBS./ACRE
NOV. 1 – MAR.1	TALL FESCUE	200 LBS./ACRE
	AND ABRUZZI RYE *(NURSE CROP)	25 LBS./ACRE
MAR. 1 – APR. 15	TALL FESCUE	200 LBS./ACRE
APR. 15 – JUN. 30	HULLED COMMON BERMUDAGRASS	15 LBS./ACRE

PERMANENT SEEDING – SLOPES (3:1 TO 2:1)

AUG. 15–NOV.1	TALL FESCUE	200 LBS/ACRE
	AND SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED)	60 TO 70 LBS/ACRE
NOV. 1–MAR.1	TALL FESCUE	200 LBS/ACRE
	AND SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED)	60 TO 70 LBS/ACRE
	AND ABRUZZI RYE	25 LBS/ACRE
MAR. 1–JUNE 1	TALL FESCUE	200 LBS/ACRE
	AND SERICEA LESPEDEZA (SCARIFIED)	40 TO 50 LBS/ACRE
MAR. 15–JUNE 30	WEEPING LOVEGRASS	10 LBS/ACRE
	AND SERICEA LESPEDEZA (SCARIFIED)	40 TO 50 LBS/ACRE
MAR. 15–JUNE 30	HULLED COMMON BERMUDAGRASS	15 LBS/ACRE
	AND SERICEA LESPEDEZA (SCARIFIED)	40 TO 50 LBS/ACRE

TEMPORARY SEEDING

JUNE 1–SEPT. 1	TALL FESCUE	200 LBS/ACRE
	AND BROWNTOP MILLET *(NURSE CROP)	35 LBS/ACRE
	OR SORGHUM–SUDAN HYBRIDS *(NURSE CROP)	30 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

*NURSE CROP/TEMPORARY – RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

VEGETATIVE STABILIZATION NOTES

ALL CONSTRUCTION TO CITY OF WILMINGTON & NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS

FINAL PLAN - NOT RELEASED FOR CONSTRUCTION

REVISIONS

GOODWILL COMMUNITY FOUNDATION®
1745 SIR TYLER DRIVE
NEW HANOVER COUNTY WILMINGTON, NC

SCALE:
ORIGINAL DATE: 05-09-13
LATEST REVISION DATE:
PROJECT NO.: 11-164

EROSION CONTROL DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 22650 ENGINEER DAVID H. BLEVINS 05-09-13

DEVELOPMENT ENGINEERING, INC.
Professional Engineering Consultants
244 West Millbrook Road, Raleigh, NC 27609
P. O. Box 17705, Raleigh, NC 27619
www.d-e-inc.com
Phone: 919-847-8300
Fax: 919-847-2130
E-mail: Office@d-e-inc.com

SHEET NO. 13 OF 13

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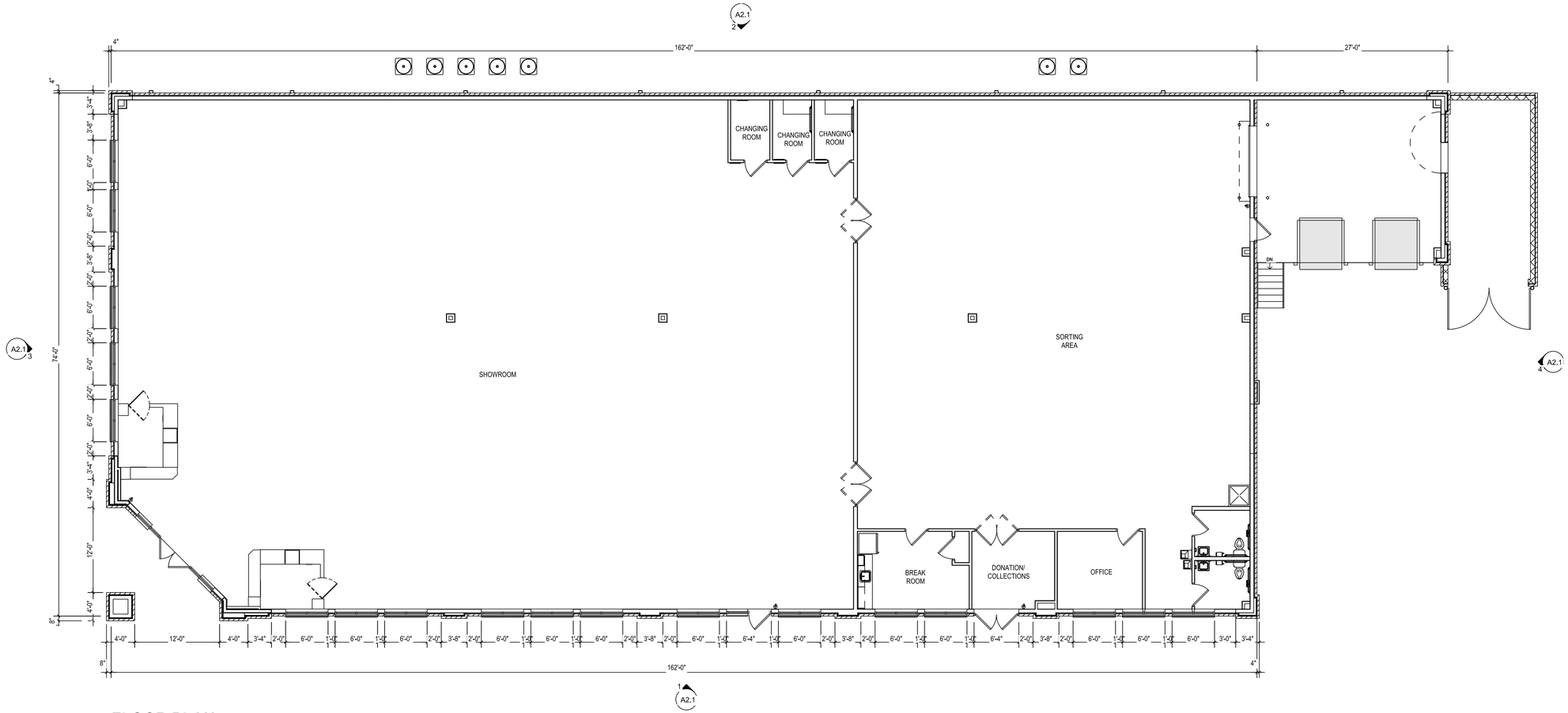

1 FLOOR PLAN

1/8" = 1'-0"

REVIEW SET
NOT FOR
CONSTRUCTION

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919.848.4474

GCF RETAIL PROGRAM CENTER SIR TYLER

WILMINGTON, NC

No.	Description	Date

PROJECT #: 130012

DATE: 04/23/2013

SCHEMATIC DESIGN

FLOOR PLAN

A1.1

DIGITAL PRINT DATE: 4/25/2013 9:17:55 AM

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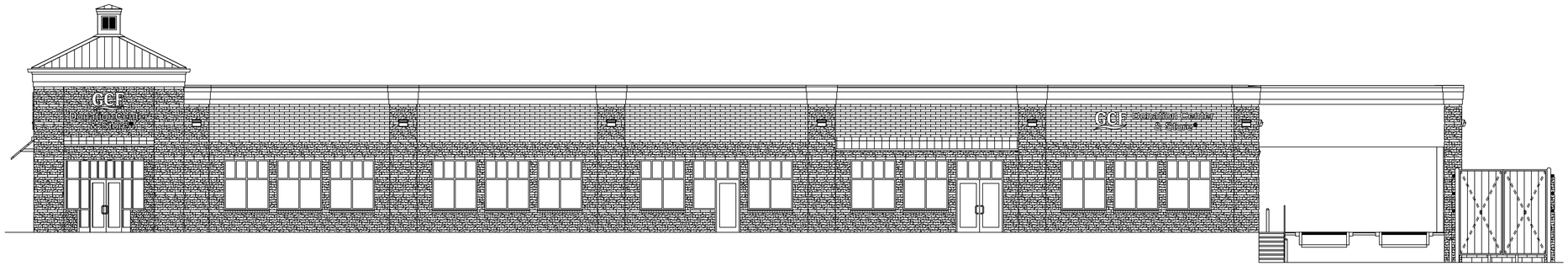
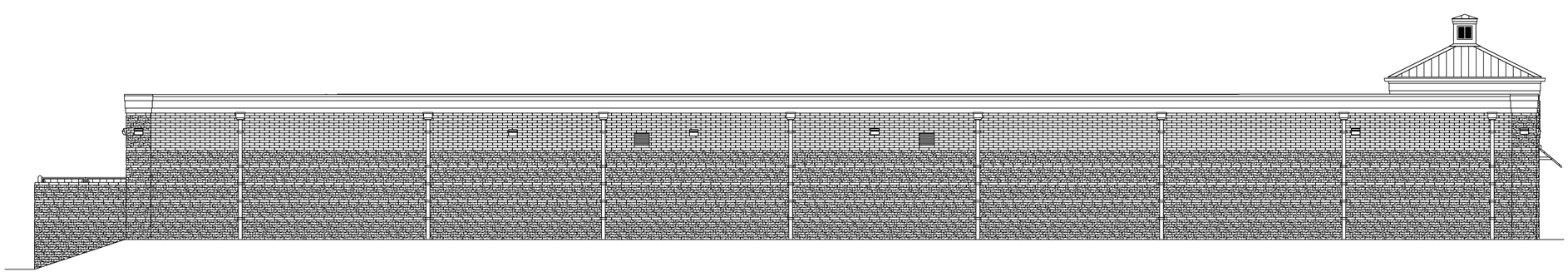
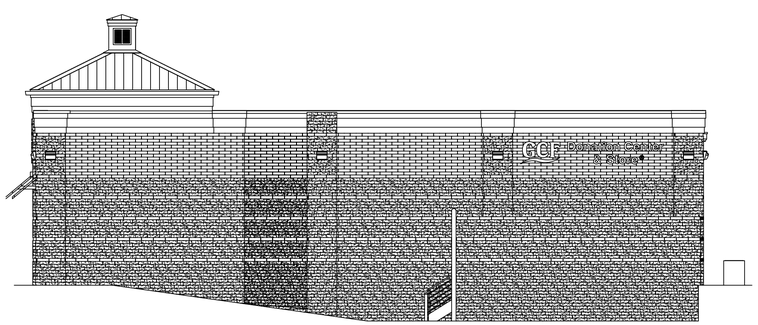


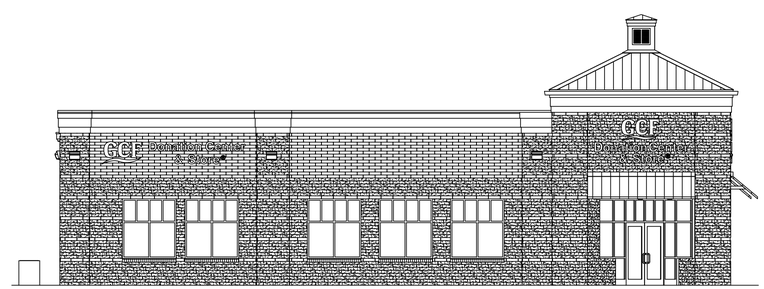
1 FRONT ELEVATION
1/8" = 1'-0"



2 REAR ELEVATION
1/8" = 1'-0"



4 RIGHT ELEVATION
1/8" = 1'-0"



3 LEFT ELEVATION
1/8" = 1'-0"

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GCF RETAIL PROGRAM CENTER SIR TYLER

WILMINGTON, NC

No.	Description	Date

PROJECT #: 130012

DATE: 04/23/2013

SCHEMATIC DESIGN

BUILDING ELEVATIONS

A2.1

DIGITAL PRINT DATE: 4/25/2013 9:18:35 AM

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