

LEGEND

PROPERTY LINE	---
EASEMENT LINE	- - - -
EXISTING CONTOUR	~ ~ ~ ~
BUILDING SETBACK LINE	---
OVERHEAD POWER	—O—O—
UNDERGROUND TELEPHONE	—T—T—
UNDERGROUND FIBER CABLE	—F—F—
GAS LINE	—G—G—
WATER LINE	—W—W—
STORM DRAIN	—SD—SD—
SANITARY SEWER	—SS—SS—
BOLLARD	⊙
ELECTRIC METER	⊙
ELECTRIC OUTLET	⊙
ROOF DRAIN DOWNSPOUT	⊙
UTILITY POLE/GUY WIRE	⊙
LIGHT POLE	⊙
TELEPHONE MANHOLE	⊙
CLEANOUT	⊙
FIRE HYDRANT	⊙
WATER METER	⊙
WATER VALVE	⊙
HOSE BIB	⊙
TELEPHONE PEDESTAL	⊙
STREET SIGN	⊙
SPOT ELEVATION	⊙
WIRE HEIGHT	⊙
TOP OF CURB/FLOW LINE ELEVATION	⊙
IRON PIN FOUND	⊙
1/2" REBAR SET	⊙
CONCRETE	⊙
ASPHALT	⊙
TREE (SIZE AND TYPE NOTED)	⊙
ENCROACHMENT ID	⊙

NOTES

1. THE TAX PARCEL IDENTIFICATION NUMBER FOR THE SUBJECT TRACTS IS R04914-006-002-000.
2. THE CURRENT ADDRESSES FOR THE SUBJECT PARCELS IS 4010 MARKET STREET, WILMINGTON, NC.
3. THE AREA OF THIS PROPERTY WAS DETERMINED BY THE COORDINATE COMPUTATION METHOD.
4. DISTANCES SHOWN HEREON ARE HORIZONTAL GROUND DISTANCES UNLESS NOTED OTHERWISE.
5. ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED IN REFERENCE TO A ONE CALL TICKET NUMBER A110972076, FROM THE NORTH CAROLINA UTILITY PROTECTION SERVICE, (800) 632-4949.
6. THIS SURVEY IS IN REFERENCE TO DEED BOOK 4779, PAGE 456, NEW HANOVER COUNTY REGISTER OF DEEDS.
7. THE REFERENCE BEARING FOR THIS DRAWING IS BASED UPON THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NAD 83 (CORRS6).
8. ELEVATIONS SHOWN ARE BASED ON THE NAVD 83 DATUM. ONE-FOOT CONTOUR INTERVAL SHOWN.
9. THIS PROPERTY IS LOCATED WITHIN THE LIMITS OF THE CITY OF WILMINGTON, NORTH CAROLINA.
10. PER DAVID DAILY WITH THE CAPE FEAR PUBLIC UTILITY AUTHORITY, TYPICAL COVER OVER WATER LINES IS 36"-48". WATER LINE DEPTH MAY VARY WHERE THERE IS CONFLICT WITH OTHER UTILITIES.

UTILITY INFORMATION

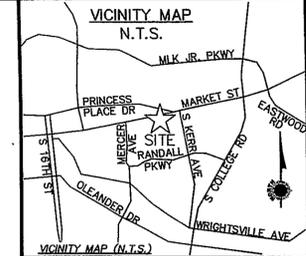
UTILITIES SHOWN ARE AS MARKED WITH PAINT BY ITS UTILITY IN RESPONSE TO A REQUEST TO THE NORTH CAROLINA ONE-CALL UTILITY PROTECTION SERVICE, TICKET A110972076. ANY PIPE SIZES SHOWN ARE PER RECORD PLANS OR AS PROVIDED BY ITS UTILITY.

FLOOD ZONE INFORMATION

THE SUBJECT PROPERTY IS LOCATED WITHIN FLOOD ZONE "X", DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), COMMUNITY PANEL NO. 37203138001, EFFECTIVE DATE APRIL 03, 2006.

TREE CHART

1. LIVE OAK
2. 3" PINE
3. 10" PINE
4. 11" PINE



ROAD INFORMATION

MARKET STREET (US HIGHWAY 17)
AUTHORITY: NC DOT
ADDRESS: 3113 NORTH KERR AVE
WILMINGTON, NC
KAYE BAGGETT
CONTACT: (910) 341-2100

PLANNED IMPROV: THERE ARE NO PLANS TO WIDEN MARKET STREET. THERE ARE PLANS TO INSTALL A CONCRETE MEDIAN AT A FUTURE DATE, WHICH HAS NOT BEEN DETERMINED.

R/W WIDTH: 100'; 50' FROM CL (DB 924, PG 716)

SPEED LIMIT: 45 MPH
CLASSIFICATION: MAJOR THOROUGHFARE

WESTIG DRIVE
AUTHORITY: PRIVATE STREET

ZONING INFORMATION

AUTHORITY: CITY OF WILMINGTON
ADDRESS: 305 CHESTNUT ST
WILMINGTON, NC 28402
RON SATTERFIELD
PHONE #: (910) 341-3255

ZONED: CS (COMMERCIAL SERVICE)

BUILDING SETBACK DISTANCES

FRONT: 35'
SIDE: 13'
REAR: 15'
BUFFER: 0'

UTILITY CONTACTS

WATER & SANITARY
AUTHORITY: CAPE FEAR PUBLIC UTILITY AUTH.
ADDRESS: 235 GOVERNMENT CENTER DR
WILMINGTON, NC 28403
DAVID DAILY
PHONE #: (910) 799-6064

NATURAL GAS
AUTHORITY: PIEDMONT NATURAL GAS
ADDRESS: 1321 SOUTH TENTH ST
WILMINGTON, NC 28401
JOYCE MISHG
PHONE #: (910) 799-7185

TELEPHONE
AUTHORITY: AT&T
ADDRESS: 351 S COLLEGE RD
WILMINGTON, NC
CUSTOMER SERVICE REP
PHONE #: (910) 452-5300

POWER
AUTHORITY: PROGRESS ENERGY
ADDRESS: PO BOX 1551
RALEIGH, NC 27602
CUSTOMER SERVICE REP
PHONE #: (919) 508-5400

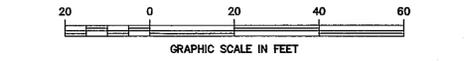
SURVEYOR'S CERTIFICATE

I hereby certify to Fidelity National Title Insurance Company and O'Reilly Automotive Stores, Inc., a Missouri Corporation, f/k/a O'Reilly Automotive, Inc. that:

1. The plot of survey prepared by me entitled "ALTA/ACSM Land Title Survey" is actually made upon the ground and that it and the information, courses and distances shown thereon are correct;
2. The title lines and lines of actual possession are the same;
3. The size, location and type of buildings and improvements are as shown and all are within the boundary lines of the property;
4. There are no violations of zoning ordinances, restrictions or other rules and regulations with reference to the location of said buildings and improvements;
5. There are no discrepancies, conflicts, shortages in area or boundary line conflicts, easements, encroachments, driveways, cemeteries, burial grounds or uses affecting this property appearing from a careful physical inspection of the same, other than those shown and depicted thereon;
6. All monuments shown actually exist, and the location, size and type of materials are correctly shown;
7. The distance from the nearest intersecting street or road is as shown;
8. This property has direct access to Market Street, a publicly dedicated street;
9. All utility services required for the operation of the property either enter the property through adjoining public streets or the survey shows the point of entry and location of any utilities that pass through or are on adjoining private lands;
10. The parcels described hereon does not lie within flood hazard areas according to the maps of the Federal Emergency Management Agency and the Department of Housing and Urban Development; and
11. This is to certify that this map or plot and the survey on which it is based were made in accordance with the 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS. The field work was completed on April 14, 2011.

I, John M. Story, certify that this plot was drawn under my supervision from an actual survey performed under my supervision (deed description recorded in Book 4779, Page 465); that the Global Positioning System (GPS) observations were performed to the Geospatial Positioning Accuracy Standards, Part 2: Standards for Geospatial Networks at the 2 cm standard accuracy classification (95% confidence) using RTK and traditional traverse. That this plot meets the requirements of the Standards of Practice for Land Surveying in North Carolina (G.S. 21-56.1600). This 3rd day of May, 2011

John M. Story
Professional Land Surveyor L-3840
Date: 5/08/2011



SURVEY LEGAL DESCRIPTION

All that tract or parcel of land, lying and being in the City of Wilmington, New Hanover County and being more particularly described as follows:

BEGINNING at a 1-1/4" crimped top pipe found at the intersection of the southern right of way line of Market Street (United States Business Highway 17, 100' Right of Way) and the western boundary line of a 30 foot access road which leads to Westig Boat Yard, recorded in Deed Book 5417, Page 2680, said 1-1/4" crimped top pipe being the POINT OF BEGINNING; thence along said western boundary line S14°41'01"E a distance of 385.03' to a 1/2" rebar set; thence leaving said western boundary line S76°37'01"W a distance of 141.63' to a 1/2" rebar set; thence N12°29'17"W a distance of 238.08' to a mag nail set; thence N77°30'47"E a distance of 6.28' to a mag nail set; thence N12°29'07"W a distance of 86.01' to a mag nail set; thence N24°14'25"W a distance of 64.56' to a 1/2" rebar set on the southern right of way line of Market Street; thence along said right of way line N77°39'24"E a distance of 133.73' to a 1-1/4" crimped top pipe found at the intersection of the southern right of way line of Market Street (United States Business Highway 17, 100' Right of Way) and the western boundary line of a 30 foot access road which leads to Westig Boat Yard, recorded in Deed Book 5417, Page 2680, said 1-1/4" crimped top pipe being the POINT OF BEGINNING.

Said tract of land contains 51,302 square feet or 1.178 acres of land, more or less.

RECORD LEGAL DESCRIPTION

TRACT ONE:
Beginning at an iron pipe at the intersection of the Southern line of Market Street with the Western line of a 30 foot wide road which leads to Westig Boat Yard, (formerly the Pearsall Fertilizer Plant), and runs thence Southward along said Western line of said 30 foot Road, South 12 degrees 08 minutes 18 seconds East, 276.87 feet to an iron pipe; thence, South 80 degrees 35 minutes West, 242.78 feet to an iron pipe; thence, North 09 degrees 35 minutes 24 seconds West, 217.92 feet; thence, North 15 degrees 27 minutes 52 seconds East, 63.12 feet to an iron pipe in the Southern line of said Market Street; thence, along the Southern line of said Market Street, North 80 degrees 12 minutes 07 seconds East, 203.75 feet to the point of beginning, and containing 1.48 acres, more or less.

TRACT TWO:
Beginning at an iron pipe in the Western line of a thirty, (30) foot wide road which leads to Westig Boat Yard, (formerly the Pearsall Fertilizer Plant), (Deed Book at Page) [sic], that is South 12 degrees 08 minutes 18 seconds East, 276.87 feet from the intersection of said Westig Road with the Southern line of Market Street, (a hundred foot wide public right of way), thence; FROM THE POINT OF BEGINNING, along the western line of said Westig Road, South 12 degrees 08 minutes 18 seconds East, 108.15 feet to an iron pipe, thence, South 77 degrees 26 minutes 12 seconds West, 116.79 feet to an iron pipe; thence, South 80 degrees 52 minutes 37 seconds West, 123.15 feet to an iron pipe; thence, South 79 degrees 12 minutes 46 seconds West, 100.01 feet to an iron pipe; thence, North 09 degrees 38 minutes 25 seconds West, 116.24 feet to an iron pipe; thence, North 80 degrees 35 minutes 12 seconds East, 223.08 feet to the point of beginning, and containing 0.88 acre, more or less.

BENCHMARK INFORMATION

CITY STATE BOLT ON FIRE HYDRANT LOCATED NORTH OF SITE, ELEVATION=42.2.

CITY STATE BOLT ON FIRE HYDRANT LOCATED ALONG THE EAST PROPERTY LINE, ELEVATION=42.30.

SCHEDULE B SECTION II

Fidelity National Title Insurance Company
Title No.: 201103510
Effective date: March 24, 2011 at 8:00 AM

7. Deed of Cross Access Easement and Agreement at Book 2637, page 205. THIS DEED DOES AFFECT THE SUBJECT PROPERTY; NOT PLOTTABLE.
9. Hazardous Substance Certificate and Indemnity Agreement at Book 4501, page 66. THIS DOCUMENT DOES AFFECT THE SUBJECT PROPERTY; NOT PLOTTABLE.
10. Terms, provisions, covenants, conditions, restrictions, easements, charges, assessments and liens provided in the Covenants, Conditions and Restrictions of of [sic] record in Book 433, Page 553, and Book 464, Page 216, Register's Office for Hanover County, North Carolina, but omitting any covenant, condition or restriction, if any based on race, color, religion, sex, handicap, familial status or national origin unless and only to the extent that the covenant, condition or restriction (a) is exempt under Title 42 of the United States Code, or (b) relates to handicap but does not discriminate against handicapped persons. DEED BOOK 433, PAGE 553 DOES NOT AFFECT THE SUBJECT PROPERTY. DEED BOOK 464, PAGE 216 DOES AFFECT THE SUBJECT PROPERTY; NOT PLOTTABLE.
11. Easements in favor of Carolina Power and Light Company recorded at Book 589, Page 280; Book 942, Page 717 and Book 1293, page 1489. THESE EASEMENTS DO AFFECT THE SUBJECT PROPERTY; NOT PLOTTABLE.

ENCROACHMENTS

1. THE FIRE HYDRANT ALONG WESTIG ROAD IS ON THE SUBJECT PROPERTY, BEYOND THE EAST PROPERTY LINE. CONSTRUCTION PLANS FOR THE BUILDING BEHIND THE FORMER WENDY'S ACROSS WESTIG ROAD PREPARED IN SEPTEMBER, 2000 CALL FOR A 20' EASEMENT, 10' EITHER SIDE OF THE WATERLINE, THAT ALSO INCLUDED AN AREA AROUND THE FIRE HYDRANT. NO DOCUMENT SHOWING THAT THIS EASEMENT WAS CONVEYED BY THE OWNERS OF THIS PROPERTY IS IN THE TITLE COMMITMENT, THEREFORE THE FIRE HYDRANT IS SHOWN AS AN ENCROACHMENT.
2. THE ASPHALT DRIVE THAT PROVIDES ACCESS TO THE PROPERTY WEST OF THE SUBJECT PARCEL AND RUNS ALONG A PORTION OF THE WEST PROPERTY LINE, IS SHOWN AS AN ENCROACHMENT.
3. CHAINLINK FENCE CROSSES WEST PROPERTY LINE.

DONALDSON, GARRETT, & ASSOCIATES, INC.
Macon • Charlotte
500 EAST WILMINGTON ST. STE 103
CHARLOTTE, NC 28202
(704) 374-1955 Fax: (704) 374-1956
http://www.dga-c.com
NC CORPORATE LICENSE NO. C-1518

RECEIVED
MAR 9 2015
PLANNING DIVISION

ALTA/ACSM LAND TITLE SURVEY FOR
O'REILLY AUTOMOTIVE STORES, INC.
4010 MARKET STREET
NEW HANOVER COUNTY
WILMINGTON
NORTH CAROLINA

REVISIONS
DATE: 08/08/2011
AMENDED BOUNDARY AND ADDED PROPOSED ACCESS EASEMENT

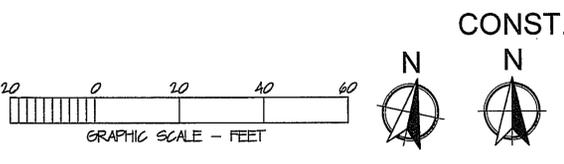
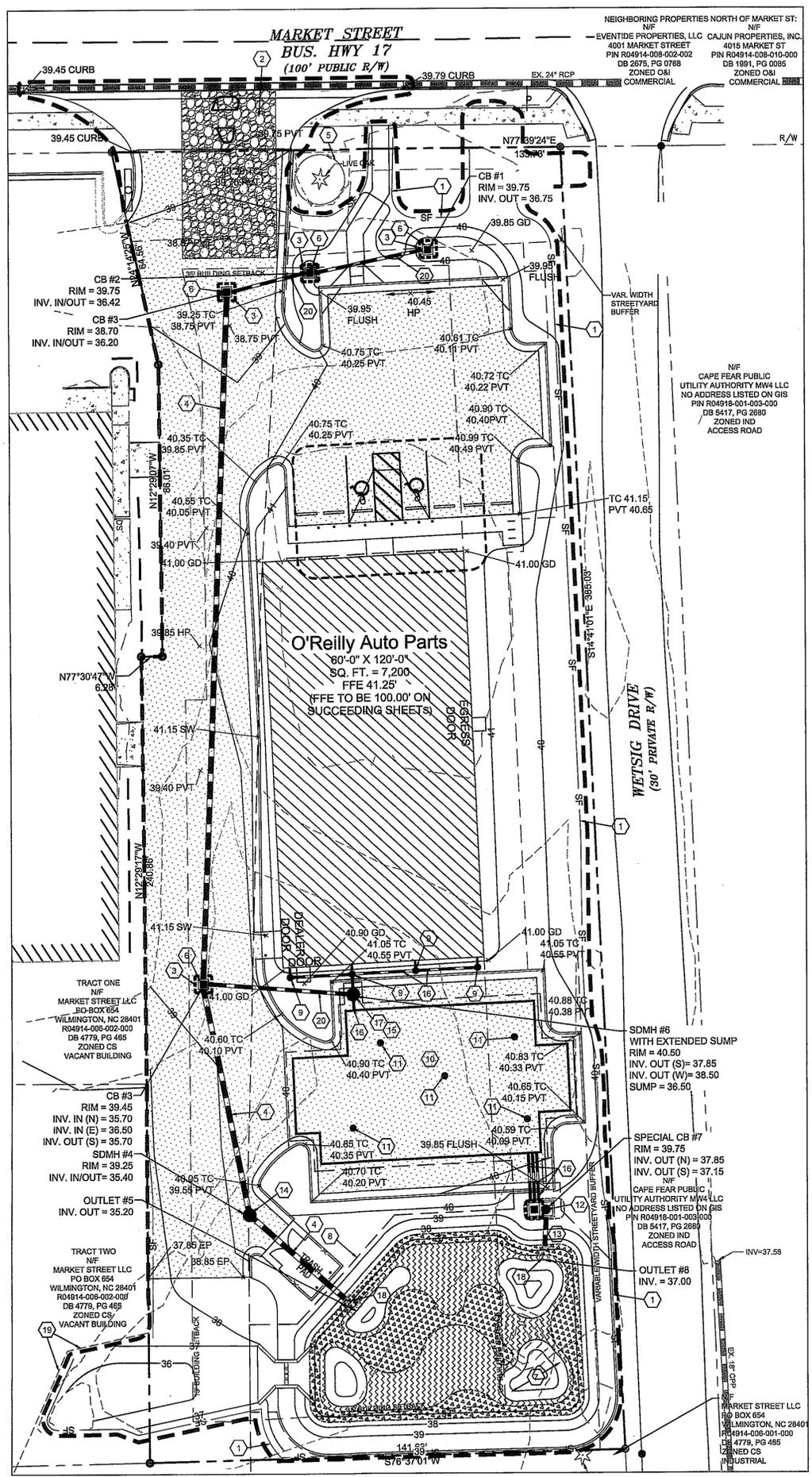
SCALE:
HORIZONTAL: 1"=20'
VERTICAL: N/A

DATE: MAY 03, 2011
DRAWING #: NC-011-12-D
PROJ. #: 4539-223-N1
DSGN: N/A
DRWN: MH
CHKD: JWS
APVD: JMS
RLS No: L-3840

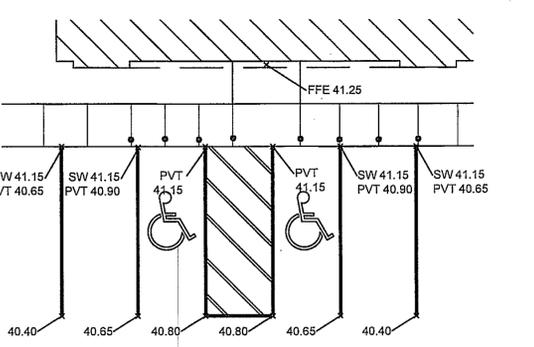
SV1
A WGT 8/11/11

SHEET 1 OF 1

H1049.DWG/1 PLOT DATE: 08/08/2011 BY: bwashburn



1 SITE GRADING PLAN
 C1 SCALE: 1" = 20'-0"



2 HANDICAP PARKING DETAIL
 C1 SCALE: 1" = 10'-0"

SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND	
	NEW BUILDING CONSTRUCTION
	NEW POLE SIGN LOCATION
	NEW CONCRETE PAVING BLOCK
	EXISTING CONTOUR
	PROPOSED CONTOUR
	TEMPORARY SILT FENCE
	NEW STORM PIPE
	LIMITS OF DISTURBANCE
	CONSTRUCTION ENTRANCE
	B&G INLET PROTECTION
	SPOT ELEVATION
NEW SPOT ELEVATIONS	
LIST	ABBREVIATION
TOP OF CURB	TC
EDGE OF PAVEMENT	EP
HIGH POINT	HP
TOP OF PAVEMENT	PVT
GROUND ELEVATION	GD

KEY NOTES:

- LIMITS OF SILT FENCE INSTALLATION. REFER TO DETAIL 4/C5.
- TEMPORARY CONSTRUCTION ENTRANCE. REFER TO DETAIL 7/C5.
- HARDWARE CLOTH AND GRAVEL INLET PROTECTION. REFER TO DETAIL 3/C5.
- 18" RCP CLASS IV STORM DRAINAGE PIPE
- TREE PROTECTION FENCING. REFER TO DETAIL 2/C5.
- GRILL BASIN. REFER TO DETAIL 7/C4. CB #1 TO BE INSTALLED SUCH THAT RIM ELEVATION PROVIDES STORAGE ABOVE GROUND ELEVATION. CB #2 TO BE INSTALLED FLUSH WITH PAVEMENT
- STORMWATER WETLAND BMP. CONTRACTOR TO INSTALL CLAY LINER PER NOTES ON SHEET C5. REFER TO DETAILS SHEET C6.
- BMP MAINTENANCE AND ACCESS EASEMENT.
- ROOF DRAIN DOWNSPOUT AND CLEANOUT. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL DRAWINGS
- RAINTANK UNDERGROUND STORMWATER STORAGE & INFILTRATION BASIN. SEE SHEET C5 FOR DESIGN AND DETAILS
- RAINTANK MAINTENANCE PORT. REFER TO DETAIL 5/C7.
- SPECIAL CB #7. REFER TO DETAIL 6/C7
- 12" RCP CLASS III STORM DRAINAGE PIPE
- STORM DRAINAGE MANHOLE. REFER TO DETAIL 9/C4
- STORM DRAINAGE MANHOLE WITH EXTENDED SUMP. REFER TO DETAIL 9/C4
- 8" HDPE STORM DRAINAGE PIPE
- TRASHGUARD TO BE PLACED OVER OUTLET PIPE. REFER TO DETAIL 7/C7
- RIPRAP OUTLET PROTECTION. REFER TO DETAIL 9/C5
- PROPOSED DRAINAGE EASEMENT. TO BE COORDINATED WITH NEIGHBORING DEVELOPMENT.
- 10" HDPE STORM DRAINAGE PIPE

GENERAL NOTES:

- REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. FIELD VERIFY EXISTING CONDITIONS BY DETAILED SITE INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THAT PROPOSED GRADES MATCH EXISTING GRADES AT ALL CONNECTION POINTS. CONTRACTOR SHALL NOTIFY ENGINEER IF A DISCREPANCY OCCURS.
- FIELD VERIFY SANITARY SEWER INVERT ELEVATION PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION.
- COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- CONTRACTOR SHALL SEEK APPROVAL FROM ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE AND THE CITY OF WILMINGTON PRIOR MAKING ANY CHANGES TO THE PROJECT FROM THE APPROVED PLANS.

SITE EXCAVATION REQUIREMENTS:

- A GEOTECHNICAL ANALYSIS HAS BEEN PERFORMED ON THIS SITE. REFER TO PROJECT MANUAL.
- FOLLOW GEOTECHNICAL ANALYSIS RECOMMENDATION FOR SITE EXCAVATION
- REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.

GRADING NOTES

- INITIATE EROSION CONTROL SEQUENCE BEFORE BEGINNING CLEARING AND GRADING OPERATIONS.
- CLEAR AREAS TO BE GRADED OF ALL VEGETATION. PROTECT VEGETATION BEYOND GRADING LIMITS.
- STRIP TOPSOIL TO FULL DEPTH IN AREAS TO BE GRADED.
- COMPACT ALL FILL AREAS TO 95% OF MAXIMUM DENSITY, OR PER GEOTECHNICAL RECOMMENDATIONS.
- ALL AREAS ARE TO BE GRADED SO THAT NO AREAS OF STANDING WATER OCCUR.
- OPERATOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTIONS INDICATED ON THE PLAN.

IMPERVIOUS AREAS:

- ONSITE IMPERVIOUS AREAS:
 BUILDING: 7,210 SF
 SIDEWALKS: 739 SF
 PARKING/DRIVING AREAS: 22,101 SF
 CONCRETE/ASPHALT STREETS: N/A
 OTHER (DUMPSTER PAD): 280 SF
 TOTAL: 30,330 SF
- IMPERVIOUS PERCENTAGE: 58.1%
- TOTAL IMPERVIOUS AREA IN STREETYARD: 165 SF
- TOTAL STREETYARD AREA PROVIDED: 7,000 SF
- IMPERVIOUS PERCENTAGE IN STREETYARD: 2.4%
- NEW OFFSITE IMPERVIOUS AREAS:
 NEW DRIVEWAY APRON: 269 SF
 NEW SIDEWALK: 35 SF
 TOTAL: 304 SF

CONSTRUCTION SEQUENCE:

- THE INTENT OF THE CONSTRUCTION SEQUENCE IS TO PROVIDE THE CONTRACTOR WITH A GENERAL GUIDE FOR CONSTRUCTION PURPOSES. THIS SEQUENCE IS NOT INTENDED TO OUTLINE ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
- NO LAND DISTURBANCE IS PERMITTED ON SITE UNTIL A TREE PERMIT IS ISSUED IN CONJUNCTION WITH A COUNTY LAND CLEARING PERMIT, CITY GRADING AND CLEARING PERMIT, AND ANY REQUIRED STATE AND FEDERAL PERMITS.
- NO LAND DISTURBANCE IS PERMITTED IN AREAS OUTSIDE OF NECESSARY GRADING LIMITS FOR SITE IMPROVEMENTS.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW HANOVER COUNTY EROSION AND SEDIMENTATION CONTROL PLANNING AND DESIGN MANUAL.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS. NEEDED REPAIRS SHALL BE MADE IMMEDIATELY.
- IF IT IS DETERMINED DURING CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE SITE, DESPITE PROPER IMPLEMENTATION AND MAINTENANCE, THE CONTRACTOR IS OBLIGATED TO TAKE ADDITIONAL CORRECTIVE ACTION. CONTACT OWNER'S REPRESENTATIVE AND ENGINEER WITH ANY ADDITIONAL MEASURES NEEDED.
- CONTRACTOR SHALL ESTABLISH GROUND COVER ON DISTURBED AREAS WITHIN FIFTEEN (15) WORKING DAYS FOR FLAT AREAS AND TWENTY-ONE (21) CALENDAR DAYS FOR SLOPES AFTER COMPLETION OF ANY PHASE OF GRADING.
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES, INCLUDING ANY SERVICES TO ADJACENT PROPERTIES, TO AVOID CONFLICT DURING INSTALLATION OF EROSION CONTROL MEASURES, STORM SEWER PIPES, UNDERGROUND UTILITY LINES AND FOOTERS. CONTRACTOR IS TO CALL 1-800-632-4949 FOR "NO ONE CALL" TO HAVE EXISTING UTILITIES LOCATED. IN THE EVENT THAT ACTIVE SERVICE LINES ARE LOCATED ON SITE, THE CONTRACTOR SHALL COORDINATE RE-ROUTING THESE LINES WITH THE UTILITY PROVIDER.
- CONTRACTOR TO HAVE A PROFESSIONAL LAND SURVEYOR FLAG PROPERTY LINES, EASEMENTS, TREE PROTECTION AREAS AND LIMITS OF DISTURBANCE.
- CONTRACTOR IS TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLANS.
- INSTALL TEMPORARY SILT FENCE AND TREE PROTECTION FENCING AS SHOWN AND DETAILED ON PLAN. CLEAR ONLY AS NECESSARY TO INSTALL FENCING. NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED. ADDITIONALLY, 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 PRIOR TO INSTALLATION OF ANY MEASURES.
- PERFORM CLEARING, GRUBBING AND TOPSOIL REMOVAL AS REQUIRED.
- BEGIN SITE GRADING OPERATIONS.
- INSTALL STORM SEWER PIPES AND UNDERGROUND UTILITY LINES AS SHOWN ON THE PLANS WITH EROSION CONTROL MEASURES TO ELIMINATE SILT FROM ENTERING PIPE SYSTEMS.
- CONSTRUCT BUILDING PADS AND PARKING AREAS AS SHOWN ON PLANS. INSTALL CONCRETE PADS AND SIDEWALKS AS SHOWN ON PLANS.
- CARRY OUT FINAL GRADING. RESPREAD TOPSOIL IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- PERFORM SEEDING AND MULCHING AS REQUIRED IN ACCORDANCE WITH REQUIREMENTS SHOWN ON SHEET C5.
- ONCE ALL GROUND COVER HAS BEEN ESTABLISHED, AND OTHER CONSTRUCTION IS COMPLETE, CONTACT OWNER FOR SITE INSPECTION BEFORE REMOVING ANY TEMPORARY EROSION CONTROL MEASURES.
- DENSE, EMERGENT PERMANENT GRASS SHALL BE ESTABLISHED ON THE SLOPES OF THE STORMWATER WETLAND BMP PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
- ONCE SITE IS APPROVED, CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AND BRING AREAS TO FINAL GRADES. PERFORM SEEDING AND MULCHING ON RESULTING BARE AREAS.
- REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS NEEDED FOR FINAL PAVING AT ENTRY TO SITE. INSTALL FINAL PAVING AS SHOWN ON THE PLANS.
- AFTER SITE IS COMPLETELY STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION AS REQUIRED AND ON ANY RESULTING BARE AREAS.

EROSION CONTROL NOTES

- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW HANOVER COUNTY EROSION AND SEDIMENTATION CONTROL PLANNING AND DESIGN MANUAL.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS. NEEDED REPAIRS SHALL BE MADE IMMEDIATELY.
- ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY NEED TO BE INSTALLED IF DEEMED NECESSARY BY ENGINEER, OWNER, OWNER'S REPRESENTATIVE OR JURISDICTIONAL AUTHORITY.
- ESTABLISH GROUND COVER ON GRADED SLOPES AND FILLS WITHIN 21 CALENDAR DAYS AFTER COMPLETION OF ANY GRADING PHASE.
- TEMPORARY SEDIMENT CONTROL MEASURES (SILT FENCE, CONSTRUCTION ENTRANCE, ETC.) SHALL BE MAINTAINED UNTIL ALL CONTRIBUTING AREAS ARE GRADED AND STABILIZED.
- DUST CONTROL ON SITE SHALL BE MINIMIZED BY SPRAYING WATER ON DRY AREAS OF THE SITE. THE USE OF OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS STRICTLY PROHIBITED.
- IF THE MAJORITY OF MUD OR DIRT IS NOT REMOVED FROM CONSTRUCTION TRAFFIC BY CONSTRUCTION ENTRANCES, CONTRACTOR SHALL CONSTRUCT VEHICLE WASH AREAS AT CONSTRUCTION TRAFFIC EXIT POINTS. MUD AND DIRT SHALL BE INTERCEPTED AND TRAPPED BEFORE WASH WATER IS ALLOWED TO BE DISCHARGED OFF-SITE. RINSE-OFF WILL NOT BE ALLOWED OUTSIDE THE PROJECT CONSTRUCTION LIMITS.
- SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT REACHES 4-INCHES DEEP.
- MAXIMUM GRADED SLOPE SHALL NOT EXCEED 3:1.
- REFER TO SHEET C5 FOR EROSION CONTROL DETAILS.
- TOTAL DISTURBED AREA = 1.20 ACRES.
- CONTRACTOR SHALL SEEK PERMIT FOR ANY BORROW AND/OR SPILL AREAS NOT SHOWN ON THESE PLANS.

LAND QUALITY REQUIRED NOTES:

ALL SEEDED AREAS WILL BE FERTILIZED, RESEDED AS NECESSARY, AND MULCHED ACCORDING TO THE SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.

WATER QUALITY REQUIRED NOTES:

ALL SEEDED AREAS WILL BE FERTILIZED, RESEDED AS NECESSARY, AND MULCHED ACCORDING TO THE SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, ALL SLOPES STEEP THAN 3:1 AND ALL HIGH QUALITY WATER (HQW) ZONES SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN SEVEN (7) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITHIN FOURTEEN (14) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

MCKIM & CREED
 1730 Varsity Drive, Suite 500
 Raleigh, North Carolina 27606
 Phone: (919) 233-8091
 Fax: (919) 233-8031
 F-1222
 www.mckimcreed.com



STORMWATER MANAGEMENT PLAN
 APPROVED
 CITY OF WILMINGTON
 ENGINEERING DEPARTMENT
 DATE _____ PERMIT # _____
 SIGNED _____

Approved Construction Plan
 Name _____ Date _____
 Planning _____
 Traffic _____
 Fire _____

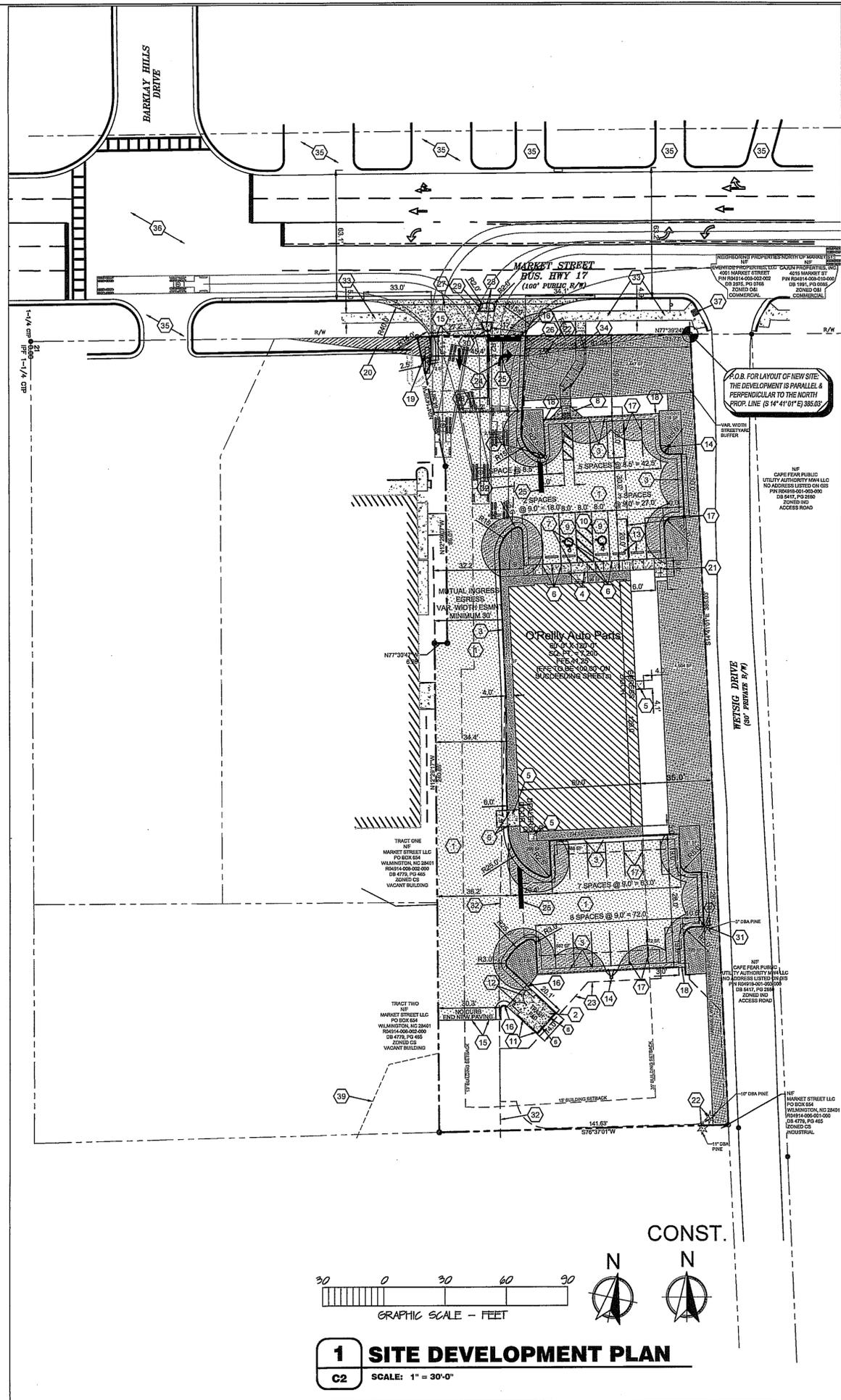


Craig A. Schneider, AIA
 ARCHITECT
 1736 East Sunshine, Suite 417
 Springfield, Missouri 65804
 Phone: 417-862-0558
 Fax: 417-862-3265
 e-mail: architect@estertyschneider.com

O'Reilly Auto Parts
 283 SOUTH PATTERSON
 SPRINGFIELD, MISSOURI 65802
 417-862-2874 PHONE

COMM # 3168

DATE:	09-23-11
REVISION DATE:	09-10-12
	04-02-13
	04-19-13
	05-01-13
	07-01-13



1 SITE DEVELOPMENT PLAN
 SCALE: 1" = 30'-0"

SITE DATA TABLE:

1. CURRENT PROPERTY OWNER: O'REILLY AUTOMOTIVE STORES, INC. 233 SOUTH PATTERSON SPRINGFIELD, MO 65802	20. ONSITE IMPERVIOUS CALCULATIONS BUILDING: 7,210 SF SIDEWALKS: 738 SF PARKING/DRIVEWAY AREAS: 22,101 SF CONCRETE/ASPHALT STREETS: N/A OTHER (DUMPSTER PAD): 280 SF TOTAL: 30,330 SF
2. PARCEL IDENTIFICATION NUMBERS: R04914-006-002-000	21. NEW OFFSITE IMPERVIOUS AREAS: NEW DRIVEWAY APRON: 280 SF NEW SIDEWALK: 35 SF TOTAL: 314 SF
3. BUILDING SETBACKS: REQUIRED ACTUAL FRONT 35' 114.5' CORNER 35' 35' REAR 15' 147.0' SIDE 15' 36.5'	22. LANDSCAPING CALCULATIONS STREET YARD LANDSCAPING MARKET STREET (PRIMARY STREET YARD) 134 LF x 34 LF (DRIVEWAY) x 25 (MULTIPLIER) = 2,500 SF STREET YARD PROVIDED: 2,520 SF REQUIRED PLANTINGS: 2,520 SF/ 600 SF / TREE = 4.2 OR 4 CANOPY TREES 2,520 SF/ 600 SF / 6 SHRUBS = 25.2 OR 25 SHRUBS PROVIDED PLANTINGS: 4 CANOPY/SHADE TREES (1 EXISTING TREE SAVED) 25 SHRUBS
4. TOTAL PARCEL AREA: 51,302 SF (1.178 ACRES)	WESTING DRIVE (SECONDARY STREET YARD) 385 LF x 37.5 LF (STREETYARD OVERLAP) x 12.5 (MULTIPLIER) = 4,244 SF STREET YARD PROVIDED: 4,480 SF REQUIRED PLANTINGS: 4,480 SF/ 600 SF / TREE = 7.5 OR 8 CANOPY TREES 4,480 SF/ 600 SF / 6 SHRUBS = 44.8 OR 45 SHRUBS PROVIDED PLANTINGS: 8 CANOPY/SHADE TREES 45 SHRUBS
5. PARKING CALCULATIONS A. PROPOSED USE: RETAIL B. MAXIMUM PARKING ALLOWED: 1 SPACE / 200 SF 7,200 SF / 200 SF / SPACE = 36 SPACES C. MINIMUM PARKING REQUIRED: 1 SPACE / 400 SF 7,200 SF / 400 SF / SPACE = 18 SPACES D. ACCESSIBLE PARKING REQUIRED: 2 SPACES FOR 26 - 50 TOTAL SPACES E. PARKING PROVIDED: 28 SPACES INCLUDING 2 ACCESSIBLE SPACES F. VAN ACCESSIBLE SPACE NOTED ON PLAN G. ADA COMPLIANCE NOTED IN KEY NOTE #10	INTERIOR SHADING AND LANDSCAPING TOTAL STREET YARD PROVIDED: 7,000 SF TOTAL IMPERVIOUS AREA IN STREET YARD: 165 SF TOTAL IMPERVIOUS PERCENTAGE IN STREET YARD = 2.4%
6. CAMA LAND USE CLASSIFICATION: DEVELOPED	FOUNDATION LANDSCAPING BUILDING FACE ADJACENT TO PARKING AREA: 17.5' HT x 240 LF = 4,200 SF FOUNDATION LANDSCAPING PROVIDED: 4,200 SF x 12% = 504 SF FOUNDATION LANDSCAPING PROVIDED: 944 SF
7. BUILDING SIZE: 7,200 SF	REQUIRED TREES: 15 TREES REQUIRED TO BE RETAINED OR PLANTED PER DISTURBED ACRE: 15 x 1.20 AC = 18 TREES TREES TO BE PLANTED: 23 TREES TO BE RETAINED: 1 TOTAL TREES: 24
8. BUILDING LOT COVERAGE: 7,200 SF / 51,302 SF = 0.140 OR 14.0%	
9. NUMBER OF UNITS: 1	
10. NUMBER OF BUILDINGS: 1	
11. BUILDING HEIGHT: 17 FT	
12. NUMBER OF STORIES: 1	
13. SQUARE FOOTAGE PER FLOOR: 7,200 SF/FLOOR	
14. ON-SITE DISTURBED AREA: 1.13 ACRES	
15. OFF-SITE DISTURBED AREA: 0.07 ACRES	
16. TOTAL IMPERVIOUS AREA: 30,330 SF	
17. TOTAL IMPERVIOUS PERCENTAGE: 58.1%	
18. EXISTING IMPERVIOUS AREAS: 18,449 SF BUILDING: 4,487 SF PAVEMENT: 15,002 SF	

SITE GENERAL NOTES:

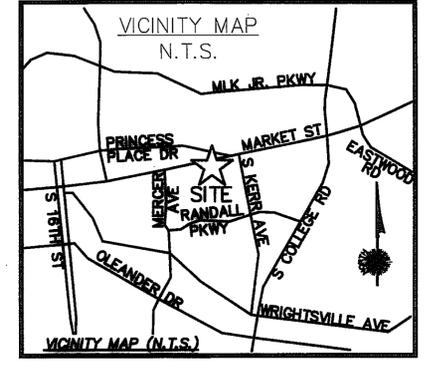
- REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- ALL SITE DIMENSIONS TO THE GUTTER LINE OF CURB, CONCRETE OR PROPERTY LINE UNLESS OTHERWISE NOTED. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND STARTING CONSTRUCTION.
- COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- REFER TO STRUCTURAL PLANS FOR DEVELOPMENT OF SIDEWALKS ADJACENT TO FOUNDATIONS.
- ALL CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH CURRENT CITY OF WILMINGTON STANDARDS, SPECIFICATIONS AND DETAILS.
- ALL PERMITS RELATING TO THIS PROJECT MUST BE OBTAINED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY LAYOUT AND CONTACT ENGINEER WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ACCESSIBLE CURB CUT RAMP SHALL BE PROVIDED WHERE SIDEWALKS INTERSECT CURBING. ALL CURB CUT RAMP DETAILS SHALL CONFORM TO AND REFERENCE THE NC STATE ACCESSIBILITY CODE. CURB CUT RAMPS WITHIN THE RW SHALL CONFORM TO NCDOT STANDARDS AND SPECIFICATIONS.
- ALL HVAC UNITS, MECHANICAL EQUIPMENT & SATELLITE DISHES ON THIS SITE WILL BE SCREENED.
- PAINTED TRAFFIC ARROWS AND ALL SIGNS, PAVEMENT MARKINGS, ETC. SHALL CONFORM TO M.U.T.C.D. STANDARDS.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE POINTS.
- GENERAL CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED IN PROJECT AND PAY ALL REQUIRED FEES AND COSTS.
- CONTRACTOR SHALL SEEK APPROVAL FROM ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE AND THE CITY OF WILMINGTON PRIOR MAKING ANY CHANGES TO THE PROJECT FROM THE APPROVED PLANS.
- THE EXISTING BUILDING AND HARDSCAPE AREAS ON THIS SITE ARE TO BE REMOVED.
- TACTILE WARNING MATS SHALL BE INSTALLED ON ALL ACCESSIBLE RAMPS.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.

CITY OF WILMINGTON REQUIRED NOTES:

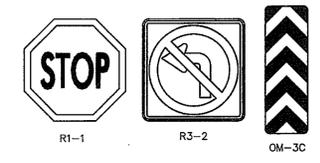
- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING TO REQUEST INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- 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.
- CONTACT TRAFFIC ENGINEERING AT 341-7886 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. ADD A NOTE TO CALL TRAFFIC ENGINEERING AT 341-7886 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
- ANY BROKEN OR MISSING SIDEWALK PANELS WILL BE REPLACED.
- 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.
- 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 AN IRRIGATION SYSTEM SUPPLIED BY CITY WATER SHALL COMPLY WITH THE CITY'S CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCCOHR OR ASSE.

KEY NOTES:

- CONCRETE PAVING:
REFER TO DETAIL 1/C3.
ALTERNATE #1:
ASPHALT PAVING REFER TO DETAIL 2/C3.
REFER TO PROJECT MANUAL.
- CONCRETE PAVING:
REFER TO DETAIL 1/C3.
- CONCRETE CURB:
REFER TO DETAIL 3/C3.
- CONCRETE SIDEWALK ADJACENT TO BUILDING:
REFER TO DETAIL 4/C3.
- CONCRETE DOOR LANDING:
REFER TO DETAIL 4/C3 AND STRUCTURAL DETAILS. RAMP PAVING AS INDICATED. LANDING CAN BE POURED MONOLITHIC IF CONCRETE PAVING IS USED.
- STEEL BOLLARD:
REFER TO DETAIL 6/C3. PROVIDE (2) AT TRASH PAD AND OVERHEAD DOOR. PROVIDE (3) AT SIDEWALK REFER TO STRUCTURAL PLAN FOR LOCATION.
- HANDICAP PARKING SIGN:
REFER TO DETAIL 7/C3.
- CONCRETE HC RAMP:
REFER TO DETAIL 8/C4 AND NCDOT STD DETAIL 484.05.
- HANDICAP PARKING SYMBOL:
REFER TO DETAIL 8/C3.
- HANDICAP ACCESS UNLOADING ZONE:
SLOPE 2% MAX. EACH WAY (ADA COMPLIANT) AND STRIPE AS SHOWN.
- SCREEN FENCE:
REFER TO DETAIL 12/C3.
- SCREEN FENCE GATES:
REFER TO DETAIL 11/C3.
- CONCRETE WHEEL STOP:
MAXIMUM HEIGHT 4" AND DIMENSIONS PER CITY OF WILMINGTON STANDARDS. TO BE PLACED 2.5' FEET FROM END OF PARKING STALL TO FACE OF WHEEL STOP PER CITY OF WILMINGTON STANDARDS. ANCHOR TO PAVING WITH (2) 1"-Ø LONG #4 REBAR (TO SIT LEVEL WITH PAVING). REFER TO DETAIL 13/C3.
- PARKING LOT LIGHTING:
REFER TO SITE ELECTRICAL PLAN FOR LOCATION AND TYPE.
- LIMITS OF NEW PAVING:
MATCH EXISTING PER CITY AND OR STATE STANDARDS.
- ROLL DOWN CURB:
TERMINATE AND ROLL DOWN NEW CURB WHERE INDICATED. ROLL DOWN AT 1:2.
- STRIPING:
PROVIDE 4" WIDE PARKING LOT STRIPING AS SHOWN. USE HIGHWAY MARKING PAINT - WHITE (2 COATS)
- CURB CUT: SEE PLAN FOR WIDTH OF CURB OPENING. REFER TO DETAIL 8/C3.
- SIGN LOCATION:
SIGN FURNISHED AND INSTALLED BY OWNER. REFER TO SITE ELECTRICAL PLAN FOR DETAILS.
NOTE: ALL PORTIONS OF THE SIGN, INCLUDING THE POLE, SHALL BE LOCATED SUCH THAT IT DOES NOT OBSTRUCT THE SIGHT LINES WITHIN THE SIGHT TRIANGLE AT A VERTICAL DISTANCE BETWEEN 10' AND 30' FROM GROUND LEVEL.
- 10' x 70' SIGHT TRIANGLE ILLUSTRATION PER NCDOT STANDARD. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30' TO 10' FROM GROUND LEVEL.
- BICYCLE PARKING FOR 6 BICYCLES. SEE DETAIL 9/C3.
- EXISTING TREE TO BE SAVED:
EXISTING LIVE OAK TREE LOCATED AT THE ENTRANCE OF THE SITE SHALL BE PRUNED IN ACCORDANCE WITH CITY OF WILMINGTON SPECIFICATIONS.
- BMP MAINTENANCE AND ACCESS EASEMENT
- TRAFFIC ARROWS PER CITY OF WILMINGTON STANDARD DETAIL 11-02. ARROWS SHALL BE PAINTED WHITE AND SHALL BE THERMOPLASTIC MATERIAL. SEE DETAIL 3/C4
- 24" WIDE STOP BAR PER CITY OF WILMINGTON STANDARD DETAIL 11-01. SEE DETAIL 4/C4 FOR INSTALLATION REQUIREMENTS.
- CONCRETE DRIVE APRON:
TO BE INSTALLED PER CITY OF WILMINGTON STANDARDS. SEE DETAIL 10/C3 AND NCDOT STD. DETAIL 848.03.
- 5' TALL SURFACE MOUNTED CONCRETE MONOLITHIC ISLAND PER DIMENSIONS THIS SHEET AND NCDOT DETAIL 952.01. SEE DETAIL 10/C4
- OM-3C OBJECT MARKER. SEE DETAIL 4/C4 FOR INSTALLATION REQUIREMENTS.
- NO LEFT TURN SIGN R3-2. SEE DETAIL 4/C4 FOR INSTALLATION REQUIREMENTS.
- EXISTING TREE TO BE REMOVED
- CROSS-ACCESS EASEMENT
- EXISTING CONCRETE SIDEWALK
- STANDARD CONCRETE SIDEWALK
REFER TO DETAIL 9/C3 AND NCDOT STD. DETAIL 848.01.
- EXISTING DRIVEWAY TO ADJACENT PROPERTIES
- EXISTING SIGNALLED INTERSECTION
- TACTILE WARNING MAT TO BE PLACED ON EXISTING ACCESSIBLE RAMP PER CITY OF WILMINGTON STANDARDS AND NCDOT STD. DETAIL 848.05.
- 4" WIDE DOUBLE YELLOW THERMOPLASTIC STRIPING AS SHOWN
- PROPOSED DRAINAGE EASEMENT



SIGN LEGEND:



SITE INFORMATION:

- PROPOSED LINEAR FOOTAGE OF ROADS: N/A
- PROPOSED NEW WATER TAPS: 1
- PROPOSED NEW SEWER TAPS: 1

SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND	
[Symbol]	NEW BUILDING CONSTRUCTION
[Symbol]	AREA OF CONCRETE
[Symbol]	AREA OF PAVING
[Symbol]	NEW POLE SIGN LOCATION
[Symbol]	NEW CONCRETE PAVING BLOCK
[Symbol]	NEW LIGHT POLE LOCATION
[Symbol]	NEW FENCE CONSTRUCTION
[Symbol]	EXISTING TREE
[Symbol]	SIGHT TRIANGLE
[Symbol]	FOUNDATION PLANTINGS
[Symbol]	STREET YARD PLANTINGS
[Symbol]	INTERIOR PLANTINGS
[Symbol]	PARKING FACILITY SHADING

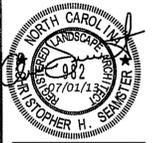


Please provide the Water and Sewer Capacity needs (current and proposed zoning) with calculations in gallons per day based on state guide lines:
 Water: 0 GPD (current use)
 Water: 822 GPD (proposed use)
 Sewer: 0 GPD (current use)
 Sewer: 822 GPD (proposed use)

STORMWATER MANAGEMENT PLAN
 APPROVED
 CITY OF WILMINGTON
 ENGINEERING DEPARTMENT
 DATE: _____ PERMIT # _____
 SIGNED: _____

Approved Construction Plan
 Name: _____ Date: _____
 Planning: _____
 Traffic: _____
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 1730 Varsity Drive, Suite 500
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 www.mckimcreed.com



CRAIG A. SCHNEIDER, AIA
 ARCHITECT
 1736 East Sunshine, Suite 417
 Springfield, Missouri 65804
 Phone: 417.862.0558
 Fax: 417.862.3265
 e-mail: architec@estetyschneider.com

New O'Reilly Auto Parts Store
 O'REILLY AUTO PARTS
 4014 MARKET STREET
 WILMINGTON, NC

O'Reilly AUTO PARTS
 233 SOUTH PATTERSON
 SPRINGFIELD, MISSOURI 65802
 417-862-2674 PHONE

COMM # 3168

DATE:	09-23-11
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C2 of 7

RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

SEEDING MIXTURE
SPECIES RATE (lb/acre)
RYE (GRAIN) 120
ANNUAL LESPEDEZA (KOBÉ IN
PIEDMONT & COASTAL PLAIN,
KOREAN IN MOUNTAINS)

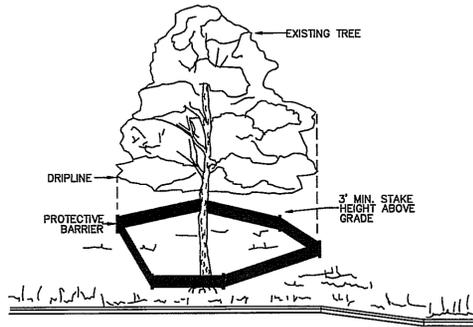
OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE

SEEDING DATES:
MOUNTAINS (ABOVE 2,500'): FEB. 15 - MAY 15
(BELOW 2,500'): FEB. 1 - MAY 1
PIEDMONT: JAN. 1 - MAY 1
COASTAL PLAIN: DEC. 1 - APR. 15

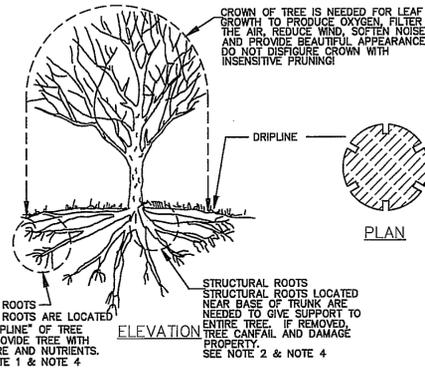
SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER

MULCH:
APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.



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

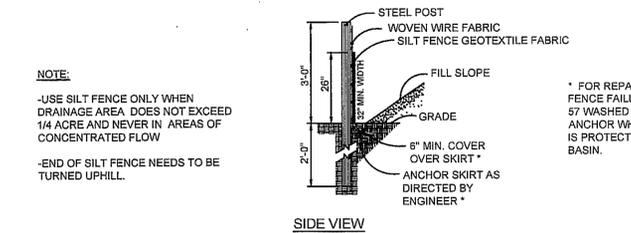
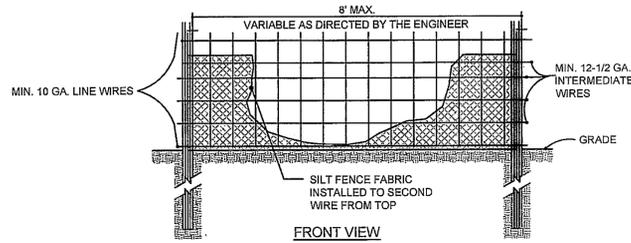


FEEDER ROOTS
FEEDER ROOTS ARE LOCATED AT "DRIPLINE" OF TREE AND PROVIDE TREE WITH MOISTURE AND NUTRIENTS. SEE NOTE 1 & NOTE 4

STRUCTURAL ROOTS
STRUCTURAL ROOTS LOCATED NEAR BASE OF TRUNK ARE NEEDED TO GIVE SUPPORT TO ENTIRE TREE. IF REMOVED, TREE CAN FALL AND DAMAGE PROPERTY. SEE NOTE 2 & NOTE 4

TREE PROTECTION DURING CONSTRUCTION

- 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 COMPACTATION 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. APPROPRIATE BARRIER SHOULD PREVENT DAMAGE FROM OCCURRING DURING CONSTRUCTION.
- NO CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK. THESE ARE ESSENTIAL IN SUPPORTING THE TREE AND HOLDING IT UPRIGHT IN HIGH WINDS. REMOVAL OF THESE ROOTS ALONG ONE SIDE IS OFTEN DONE BECAUSE OF A WALK, PAVING OR BUILDING WHICH IS BEING CONSTRUCTED.
- AVOID CUT AND FILL WITHIN DIAMETER OF TREE CROWN DURING EXCAVATION.



NOTE:

- USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW
- END OF SILT FENCE NEEDS TO BE TURNED UPHILL.

* FOR REPAIR OF SILT FENCE FAILURES, USE No. 57 WASHED STONE. FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN.

RECOMMENDATIONS FOR SUMMER

SEEDING MIXTURE
SPECIES RATE (lb/acre)
GERMAN MILLET 40

IN THE MOUNTAINS AND MOUNTAINS, A SMALL-STEMMED SUDAGRASS MAY BE SUBSTITUTED AT A RATE OF 50 lb/acre.

SEEDING DATES:
MOUNTAINS MAY 15 - AUG. 15
PIEDMONT: MAY 1 - AUG. 15
COASTAL PLAIN: APR. 15 - AUG. 15

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER

MULCH:
APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

RECOMMENDATIONS FOR FALL

SEEDING MIXTURE
SPECIES RATE (lb/acre)
RYE (GRAIN) 120

SEEDING DATES:
MOUNTAINS: AUG. 15 - DEC. 15
COASTAL PLAIN AND MOUNTAINS: AUG. 15 - DEC. 30

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER

MULCH:
APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

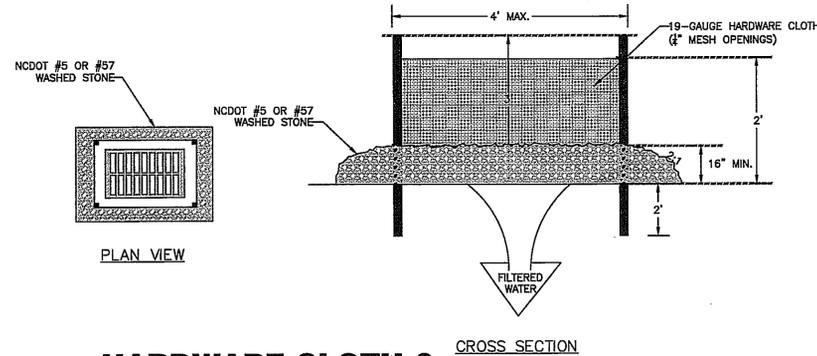
MAINTENANCE:
REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 lb/acre OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 lb/acre KOBÉ (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

2 TREE PROTECTION FENCING

C5 SCALE: N/A

NOTES:

- UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
- DRIVE 6-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
- SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
- PLACE CLEAN GRAVEL (NO DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
- ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
- COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUND COVER.



3 HARDWARE CLOTH & GRAVEL INLET PROTECTION

C5 SCALE: N/A

RECOMMENDATIONS FOR GENTLE SLOPES/LOW MAINTENANCE

SEEDING MIXTURE
SPECIES RATE (lb/acre)
KY TALL FESCUE 100

NURSE PLANTS:
BETWEEN APR 15 AND AUG. 15, ADD 10 lb/acre GERMAN MILLET OR 15 lb/acre SUDAGRASS. PRIOR TO APR OR AFTER AUG. 15, ADD 40 lb/acre RYE (GRAIN)

SEEDING DATES:
COASTAL PLAIN SEPT. 30 - MAR. 15

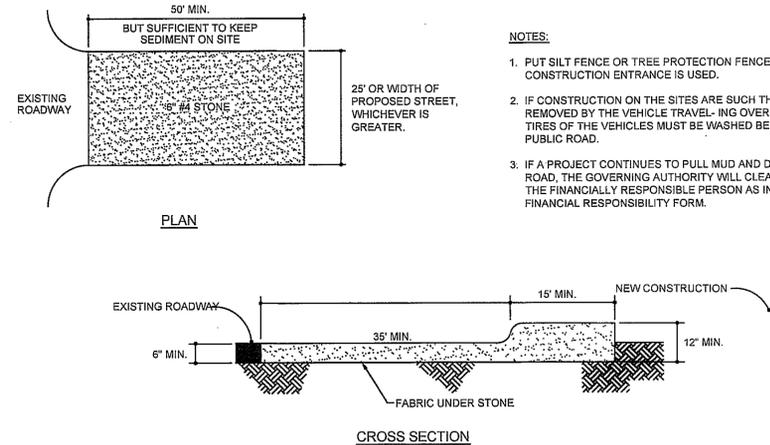
SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER

MULCH:
APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REFERTILIZE IN THE SECOND YEAR UNLESS GROWTH IS FULLY ADEQUATE. MAY BE MOWED ONCE OR TWICE A YEAR, BUT MOWING IS NOT NECESSARY. RESEED, FERTILIZE AND MULCH DAMAGED AREAS IMMEDIATELY.

4 TEMPORARY SILT FENCE

C4 SCALE: NTS

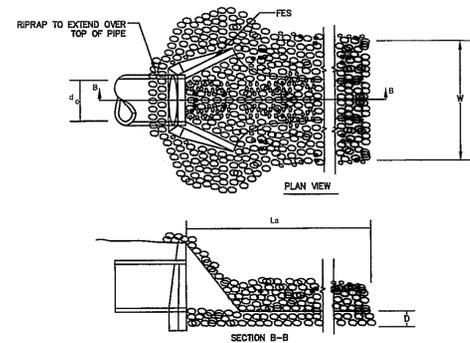


NOTES:

- PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
- IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
- IF A PROJECT CONTINUES TO PULL MUD AND DEBRIS ON TO THE PUBLIC ROAD, THE GOVERNING AUTHORITY WILL CLEAN THE AREA AND INVOICE THE FINANCIALLY RESPONSIBLE PERSON AS INDICATED ON THE FINANCIAL RESPONSIBILITY FORM.

7 TEMPORARY CONSTRUCTION ENTRANCE

C5 SCALE: NTS



OUTLET NO.	D _o (IN)	L _a (FT.)	W (FT.)	DEPTH (IN)	LINING CLASSIFICATION
OUTLET #5	15	5.0	3.75	12	CLASS A
OUTLET #9	12	4.0	3.0	12	CLASS A

8 EROSION CONTROL MAINTENANCE PLAN

C5 SCALE: NTS

9 RIPRAP OUTLET PROTECTION

C5 SCALE: NTS

1 TEMPORARY SEEDING SCHEDULE

C5 SCALE: N/A

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
 - RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
 - REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
 - APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
 - CONTINUE TILLAGE UNTIL A WELL - PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
 - SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
 - MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
 - 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.
 - CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
- * APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ACRE OR 3 TONS/ACRE IN CLAY SOILS
FERTILIZER - 4,000 LBS/ACRE (10-10-10)
SUPERPHOSPHATE - 500 LBS/ACRE (20%)
MULCH - 2 TONS/ACRE (SMALL GRAIN STRAW) ANCHOR - ASPHALT EMULSION AT 450 GAL/ACRE

5 SEEDBED PREPARATION

C5 SCALE: N/A

6 PERMANENT SEEDING SCHEDULE

C5 SCALE: N/A

STORMWATER MANAGEMENT PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE _____ PERMIT # _____
SIGNED _____

Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
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CRAIG A. SCHNEIDER, AIA
ARCHITECT
1736 East Sunshine, Suite 417
Springfield, Missouri 65804
e-mail: architect@estertyschneider.com
417.862.0558
Fax: 417.862.3265

New O'Reilly Auto Parts Store
O'REILLY AUTO PARTS
4014 MARKET STREET
WILMINGTON, NC

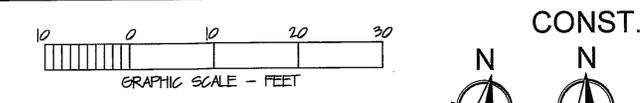
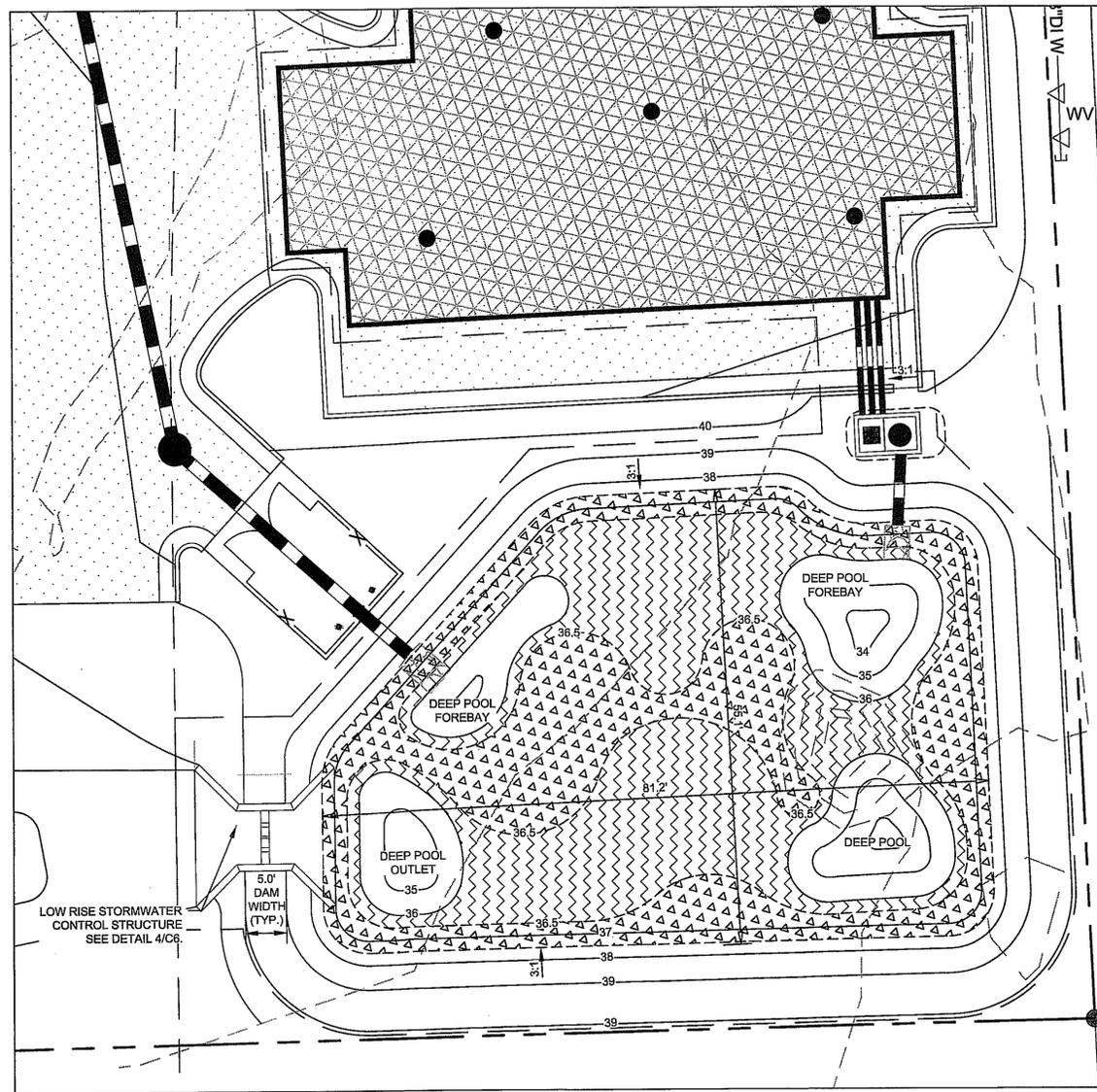
O'Reilly AUTO PARTS

O'Reilly
233 SOUTH PATTERSON
SPRINGFIELD, MISSOURI 65802
417-862-2674 PHONE

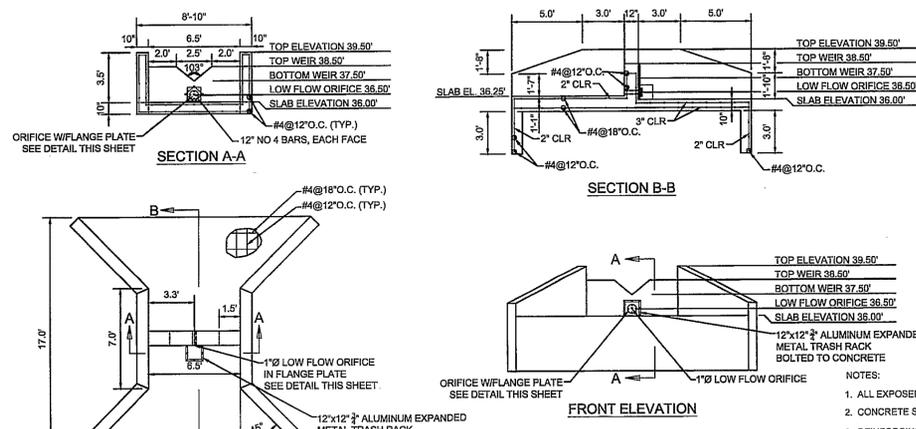
COMM # 3168

DATE: 09-23-11
REVISION DATE: 09-10-12

04-02-13
04-19-13
05-01-13
07-01-13



1 STORMWETLAND BASIN PLAN VIEW
C6 SCALE: 1" = 10'-0"



4 LOW RISE STORMWATER CONTROL STRUCTURE
C6 SCALE: N/A

DEEP POOL ZONE: ALLOWABLE PLANT SPECIES (ELEVATION 33.5' - 36.0')

COMMON NAME	BOTANICAL NAME	DEPTH RANGE (INCHES BELOW NORMAL POOL)	SPACING (O.C., FT)	QUANTITY	PERCENTAGE	SIZE
SPATTERDOCK	NYMPHAEA POLYSEPALUM	6-18	5	25	33%	2 IN PLUG (MIN)
FRAGRANT WHITE LILY	NYMPHAEA LUTEA	6-18	5	25	33%	2 IN PLUG (MIN)
AMERICAN LOTUS	NELUMBO LUTEA	6-18	5	25	33%	2 IN PLUG (MIN)

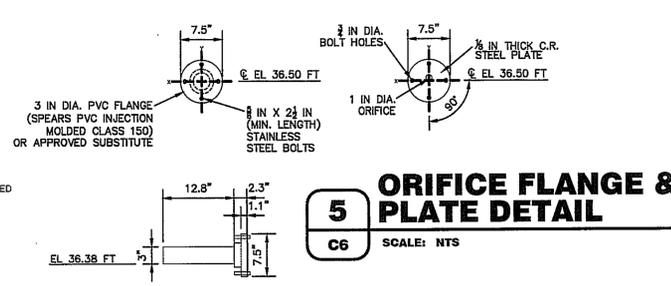
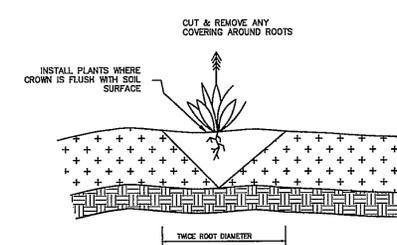
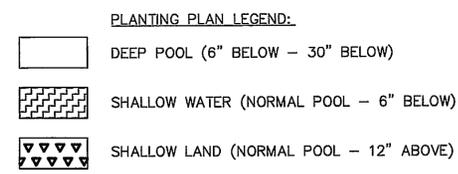
SHALLOW WATER ZONE: ALLOWABLE PLANT SPECIES (ELEVATION 36.0' - 36.5')

COMMON NAME	BOTANICAL NAME	DEPTH RANGE (INCHES BELOW NORMAL POOL)	SPACING (O.C., FT)	QUANTITY	PERCENTAGE	SIZE
ARROW ARUM	PELTANDRA VIRGINICA	0-6	2.0	40	10%	PINT
PICKERELWEED	PONTEDERIA CORDATA	0-6	2.0	40	10%	2 IN PLUG (MIN)
DUCK POTATO	SAGITTARIA LATIFOLIA	0-6	2.0	40	10%	BARE ROOT
SOFTSTEM BULBRUSH	SCHENOPECTEUS TABERNAEMONTANI	0-6	2.0	40	10%	2 IN PLUG (MIN)
SWEETFLAG	ACORUS CALAMUS	0-6	2.0	40	10%	BARE ROOT
THREE WAY SEDGE	DULICHUM ARUNDINACEUM	0-6	2.0	40	10%	BARE ROOT
SPIKERUSH	ELEOCHARIS OBTUSA	0-6	2.0	40	10%	2 IN PLUG (MIN)
SOUTHERN BLUE FLAG IRIS	IRIS VIRGINICA	0-6	2.0	40	10%	2 IN PLUG (MIN)
LIZARD'S TAIL	SAURURUS CERNUUS	0-6	2.0	40	10%	3 IN PLUG (MIN)
SOFT RUSH	JUNCUS EFFUSUS	0-6	2.0	40	10%	2 IN PLUG (MIN)

SHALLOW LAND ZONE: ALLOWABLE PLANT SPECIES (ELEVATION 36.5' - 37.5')

COMMON NAME	BOTANICAL NAME	DEPTH RANGE (INCHES ABOVE NORMAL POOL)	SPACING (O.C., FT)	QUANTITY	PERCENTAGE	SIZE
SWAMP MILKWEED	ASCLEPIAS INCARNATA	0-12	2.0	37	9.0%	2 IN PLUG (MIN)
FRINGED SEDGE	CAREX CRINITA	0-12	2.0	37	9.0%	2 IN PLUG (MIN)
GREAT BLADDER SEDGE	CAREX INTUMESCENS	0-12	2.0	37	9.0%	2 IN PLUG (MIN)
HOP SEDGE	CAREX LUPULINA	0-12	2.0	37	9.0%	2 IN PLUG (MIN)
SHALLOW SEDGE	CAREX LURIDA	0-12	2.0	37	9.0%	2 IN PLUG (MIN)
SCARLET ROSE MALLOW	HIBISCUS COCCINEUS	0-12	2.0	37	9.0%	2 IN PLUG (MIN)
ROSE MALLOW	HIBISCUS MOSCHEutos	0-12	2.0	37	9.0%	2 IN PLUG (MIN)
SPIDER LILY	HYMENOCALLIS EULAE	0-12	2.0	37	9.0%	2 IN PLUG (MIN)
SWAMP LILY	CRINUM ERUBESCENS	0-12	2.0	37	9.0%	2 IN PLUG (MIN)
CARDINAL FLOWER	LOBELIA CARDINALIS	0-12	2.0	37	9.0%	2 IN PLUG (MIN)
SWAMP SUNFLOWER	HELIANTHUS ANGUSTIFOLIUS	0-12	2.0	37	9.0%	2 IN PLUG (MIN)

2 STORMWETLAND PLANTING SCHEDULE AND NOTES
C6 SCALE: N/A



GENERAL PLANTING NOTES:

- AVOID COMPACTING TOPSOIL TO PROMOTE HEALTHY ENVIRONMENTAL CONDITIONS FOR THE PLANTS.
- PLANTS OF THE SAME SPECIES SHOULD BE PLANTED IN CLUSTERS, THESE CLUSTERS SHOULD CONTAIN MIN. 4-6 PLANTS OF THAT SPECIES.
- ALL PLANTS SHOULD BE PLANTED IN THE INDICATED RANGE TO ENSURE SURVIVAL.
- AVOID PLANTING INDIVIDUAL SPECIES IN LARGE GROUPS BY SPACING CLUSTERS A MIN. OF 5' APART.
- SHALLOW WATER AND SHALLOW LAND AREAS TO BE PLANTED WITH BARE ROOT, PLUGS, OR CONTAINER LIVE PLANTINGS AS SPECIFIED.
- EXCAVATE A HOLE TWICE THE DIAMETER OF ROOT BALL AND EQUAL TO THE ROOT DEPTH OF THE INDIVIDUAL PLANT. PLACE PLANT IN HOLE WITH CROWN FLUSH WITH SOIL SURFACE. BACKFILL WITH TOPSOIL AND LIGHTLY PLANT.
- BEGIN PLANTING DURING LOCAL GROWING SEASON IN ORDER TO ENSURE THAT PLANTS HAVE ADEQUATE TIME TO ESTABLISH BEFORE WINTER MONTHS.
- OBTAIN PLANTS FROM: COASTAL PLAIN CONSERVATION NURSERY (252-482-5707), MELLOW MARSH FARMS (919-742-1200), CURE NURSERY (919-942-6189) OR ENGINEER APPROVED SUBSTITUTE.

SHALLOW WATER PLANTING NOTES:

- 70% OF SOFT STEM BULBRUSH SHOULD BE PLANTED WITHIN 3-4 INCHES BELOW NORMAL POOL.
- 70% OF PICKERELWEED AND 70% OF ARROW ARUM SHOULD BE PLANTED WITHIN 5-6 INCHES BELOW NORMAL POOL.
- SEDGES SHOULD BE PLANTED WITHIN 0-2 INCHES BELOW NORMAL POOL.
- 70% OF SWEETFLAG, 70% OF LIZARD'S TAIL, AND 70% OF SOUTHERN BLUE FLAG IRIS SHOULD BE PLANTED IN THE 2-3 INCHES BELOW NORMAL POOL.
- 70% OF SOFT RUSH SHOULD BE PLANTED AT THE NORMAL POOL ELEVATION.

SHALLOW LAND PLANTING NOTES:

- PLANTS IN THIS GROUP SHOULD NOT BE PLANTED IN AREAS THAT ARE INUNDATED FOR EXTENDED PERIODS.
- 70% OF CARDINAL FLOWER AND 70% OF BLUE LOBELIA SHOULD BE PLANTED WITHIN 0-1 INCH OF THE NORMAL POOL ELEVATION.

DEEP POOL PLANTING NOTES:

- ENSURE ALL PLANTS ARE PLACED IN WATER NO DEEPER THAN 24 INCHES BELOW NORMAL POOL.

GRADING PLAN NOTES:

- WETLAND MUST BE STABILIZED WITHIN 14 DAYS OF CONSTRUCTION.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND PROTECTION OF EXISTING ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES. ANY AND ALL MAINS OR INDIVIDUAL SERVICES LINES PRESENTLY IN SERVICE WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL EXPENSE TO THE UTILITY OWNER.
- CONTRACTOR SHALL KEEP ALL PARKING AREAS AND STREETS ADJACENT TO THE CONSTRUCTION SITE CLEAN AND OPEN AT ALL TIMES DURING CONSTRUCTION.
- ALL SHALLOW WATER AND SHALLOW LAND AREAS WITHIN THE WETLAND CELL SHALL BE TOP DRESSED WITH A MINIMUM OF 12 IN OF TOPSOIL.
- ALL ITEMS WHICH ARE SHOWN FOR REMOVAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND LEGALLY DISPOSED OF OFF SITE.
- ALL CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH CURRENT CITY OF JACKSONVILLE STANDARDS, SPECIFICATIONS AND DETAILS; UNLESS OTHERWISE INDICATED ON PLANS.
- CONTRACTOR SHALL AT ALL TIMES MAINTAIN ADEQUATE SAFETY MEASURES, ACTIVITIES, AND BARRICADES FOR THE PROTECTION OF ALL PERSONS ON OR ABOUT THE LOCATION OF THE SITE.
- GRADE TO ELEVATIONS AND DIMENSIONS SHOWN ON DRAWINGS. ELEVATIONAL GRADING TOLERANCE IS ±0.1 FT.
- NO GRADING IS TO OCCUR IN THE DEEP POOL AREAS BEYOND THE SPECIFIED GRADING LIMITS.

TOPSOIL SPECIFICATION:

- TOPSOIL TO BE ADDED TO TOP OF WETLAND SHELF IS TO MEET CRITERIA SPECIFIED BELOW.
- TOPSOIL SHALL BE WELL MIXED, FREE OF TRASH AND DEBRIS, UNCOMPACTED, AND VOID OF LARGE STONES (>2 INCHES) AND WOODY MATERIAL (>3 INCHES).
- TOPSOIL SHALL MEET THE FOLLOWING SPECIFICATIONS:
SOIL TYPE: CLAY < 60%, SAND < 80%, SILT < 80%
ORGANIC CONTENT: 5-8%
P-I: 20-50
PH: 6.0-7.0
- IN THE EVENT THAT SELECTED TOPSOIL DOES NOT MEET SPECIFICATION LISTED ABOVE, SOIL CAN BE AMENDED BY ADDITION OF APPROPRIATE MATERIALS (MASON SAND OR MATURE STABLE COMPOST, OR LIME).
- UPON PLACEMENT OF TOPSOIL, AREA SHOULD BE LIGHTLY COMPACTED TO ENSURE STABILIZATION OF MATERIAL.
- EXCESSIVE TRAFFICKING OF EQUIPMENT OVER WETLAND PLANTING AREAS SHOULD BE AVOIDED.
- MINIMUM DEPTH OF TOPSOIL SHOULD BE 12 INCHES.

EARTHWORK SPECIFICATIONS

- GRADE TO ELEVATIONS AND DIMENSIONS SHOWN ON DRAWINGS. GRADED ELEVATIONAL TOLERANCE SHALL BE ±0.1 FT.
- TOPSOIL MATERIAL SHALL BE APPROVED BY ENGINEER PRIOR TO USE BASED ON SOIL PROPERTY TEST SUBMITTALS THAT INCLUDE STANDARD TEST METHOD FOR PARTICLE-SIZE ANALYSIS (ASTM D422), PARTICLE SIZE ANALYSIS OF SOILS (AASHTO T99), AND NCDIA SOIL ANALYSIS.
- INSTALL FINAL COVER IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS WHERE APPLICABLE.

CLAY LINER SPECIFICATION:

IN ORDER TO HELP SUSTAIN THE PERMANENT POOL AND TO PREVENT WATER FROM INFILTRATING TOO QUICKLY INTO THE UNDERLYING SOIL, THE CONTRACTOR SHALL INSTALL A 6" THICK CLAY LINER ON THE BOTTOM OF THE STORMWATER WETLAND AREA UP TO ELEVATION 38.50. THE LINER CAN BE ACCOMPLISHED BY BLENDING EXISTING SITE SOILS WITH CLAY TO ACHIEVE A LOW PERMEABILITY MIXTURE OR BY INSTALLING A GEOSYNTHETIC LINER MADE OF A BENTONITE CL. IF THE CONTRACTOR CHOOSES TO BLEND THE EXISTING SITE SOILS WITH CLAY, THE ON-SITE GEOTECHNICAL ENGINEER SHALL DETERMINE THE AMOUNT OF CLAY TO ADD, THE DEGREE OF COMPACTION, AND WILL OVERSEE THE INSTALLATION OF THE CLAY LINER. THE MAXIMUM PERMEABILITY RATE FOR THE LINER SHALL BE 0.72 CM/DAY. THE PROPOSED MATERIAL FOR THIS LINER SHALL BE TESTED BY THE ON-SITE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. THE RESULTS OF THIS TESTING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW PRIOR TO PLACEMENT. UPON COMPLETION OF LINER INSTALLATION, A LAYER OF TOPSOIL MAY BE ADDED OVER THE LINER TO PROVIDE A HEALTHY MEDIA FOR VEGETATION GROWTH.



1730 Varsity Drive, Suite 500
Raleigh, North Carolina 27606
Phone: (919) 233-8091
Fax: (919) 233-8031
F-1222
www.mckimcreed.com

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

STORMWATER MANAGEMENT PLAN APPROVED

CITY OF WILMINGTON
ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

SIGNED _____



CRAIG A. SCHNEIDER, AIA
ARCHITECT
1736 East Sunshine, Suite 417
Springfield, Missouri 65804
417.962.0558
417.962.5255
e-mail: architect@estertyschneider.com

O'REILLY AUTO PARTS
4014 MARKET STREET
WILMINGTON, NC



COMM # 3168

DATE: 09-23-11

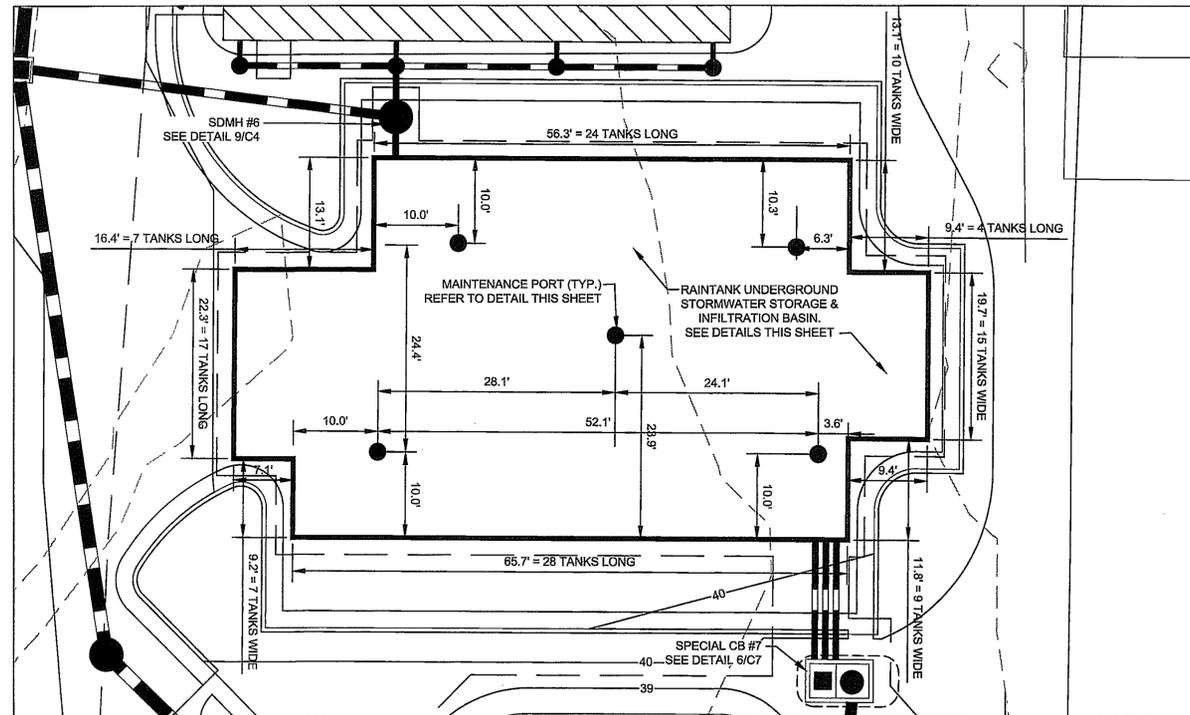
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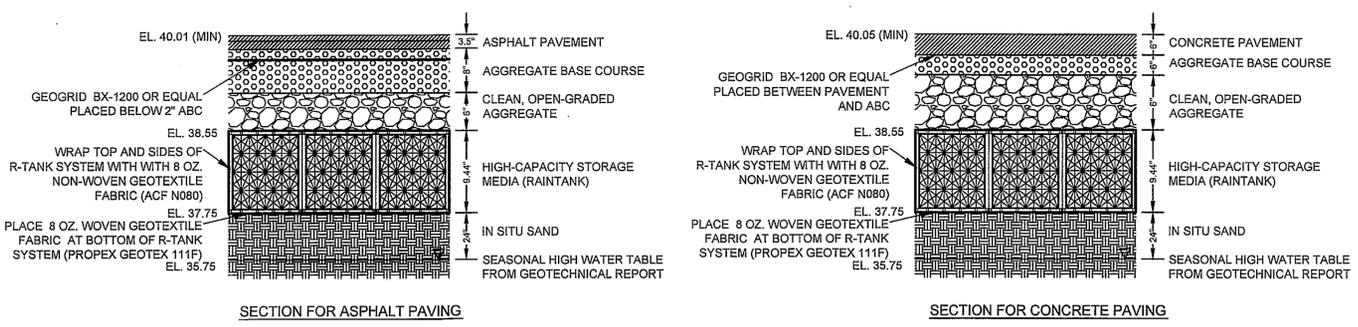
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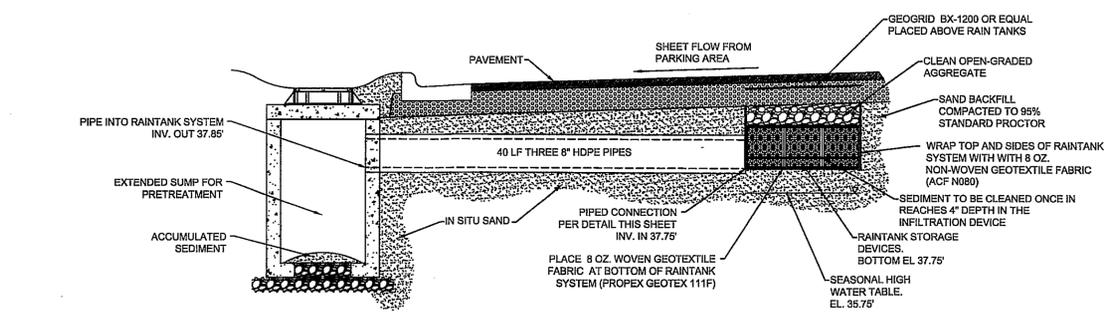
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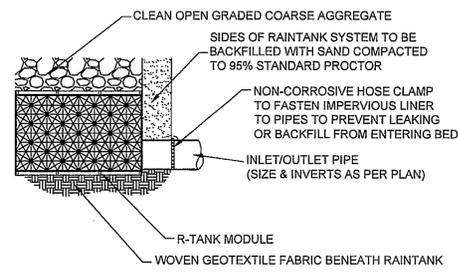
1 UNDERGROUND INFILTRATION BASIN PLAN VIEW
 C7 SCALE: 1" = 10'-0"
 CONST.



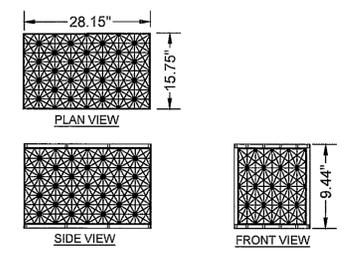
2 STORMWATER STORAGE BED SECTION
 C7 SCALE: NTS



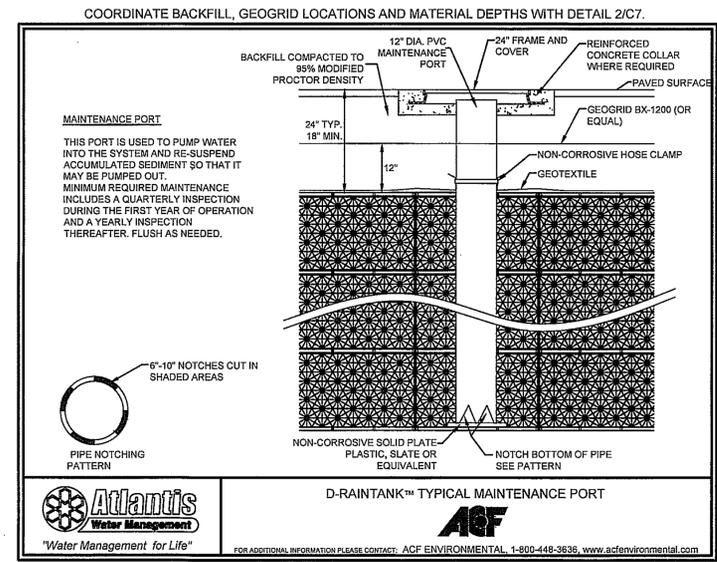
8 INFILTRATION BASIN AND PRETREATMENT SECTION
 C7 SCALE: 1" = 3'-0"



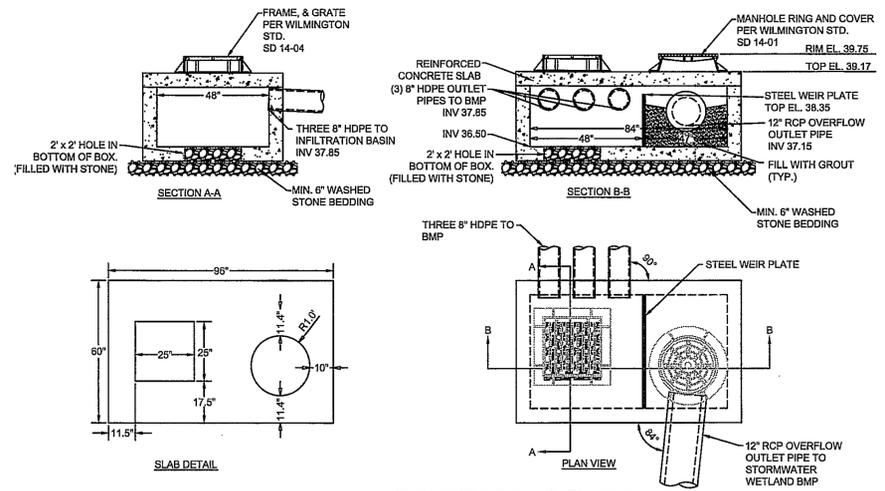
3 PIPE CONNECTION DETAIL
 C7 SCALE: NTS



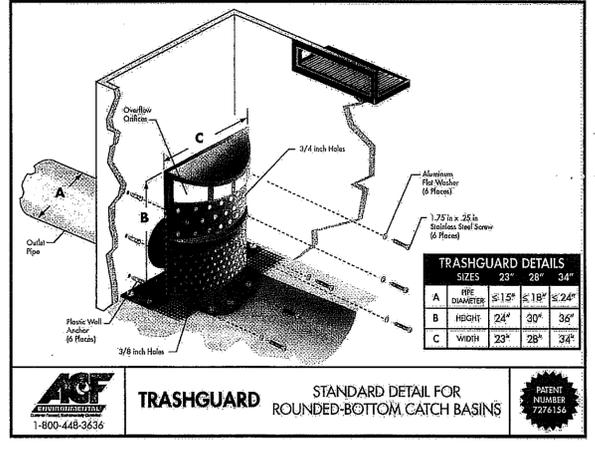
4 R-TANK STORMWATER STORAGE BED MEDIA
 C7 SCALE: NTS



5 R-TANK MAINTENANCE PORT
 C7 SCALE: NTS



6 SPECIAL CB #7 DETAIL
 C7 SCALE: NTS



7 TRASHGUARD DETAIL
 C7 SCALE: NTS



MCKIM & CREED
 1730 Varsity Drive, Suite 500
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STORMWATER MANAGEMENT PLAN
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CRAIG A. SCHNEIDER, AIA
 ARCHITECT
 417.862.0558
 Fax: 417.862.3265
 e-mail: architect@esterlyschneider.com

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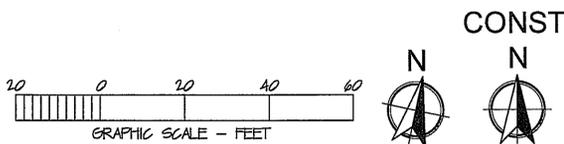
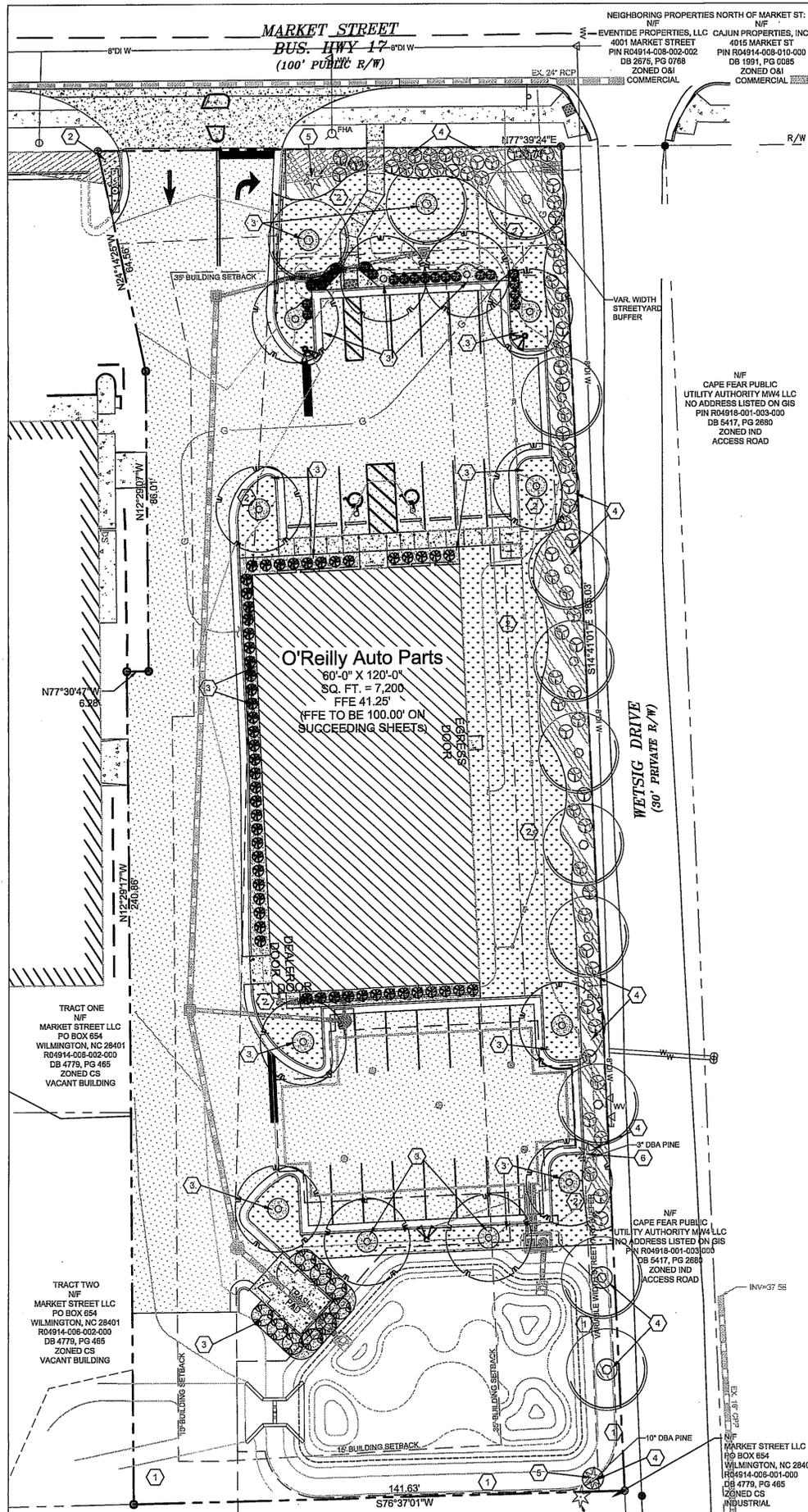
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C7 of 7



1 LANDSCAPE PLAN

L1 SCALE: 1" = 20'-0"

KEY NOTES:

- 1 HYDRO MULCH / SEED AND STRAW. (UNLESS NOTED OTHERWISE) ALL AREAS DISTURBED BY CONSTRUCTION ARE FIRST TO BE FINE GRADED AND THEN FOLLOWED BY HYDRO MULCH OR SEED AND STRAW OVER MIN. 4" TOPSOIL STOCKPILED FROM SITE OR HAULED IN AS REQUIRED.
- 2 AREA OF SOD: REFER TO DETAIL 1/L2.
- 3 AREA TO RECEIVE GRAVEL. REFER TO DETAIL 2/L2.
- 4 AREA TO RECEIVE 3" CYPRESS MULCH. REFER TO DETAIL 5/L2.
- 5 EXISTING TREE TO BE SAVED. EXISTING LIVE OAK TREE LOCATED AT THE ENTRANCE OF THE SITE SHALL BE PRUNED IN ACCORDANCE WITH CITY OF WILMINGTON SPECIFICATIONS.
- 6 EXISTING TREE TO BE REMOVED.

LANDSCAPE CALCULATIONS:

STREET YARD LANDSCAPING

MARKET STREET (PRIMARY STREET YARD)
134 LF - 34 LF (DRIVEWAY) x 25 (MULTIPLIER) = 2,500 SF
STREET YARD PROVIDED: 2,500 SF
REQUIRED PLANTINGS:
2,520 SF/600 SF / TREE = 4.2 OR 4 CANOPY TREES
2,520 SF/600 SF * 6 SHRUBS = 25.2 OR 25 SHRUBS
PROVIDED PLANTINGS:
4 CANOPY/SHADE TREES (1 EXISTING TREE SAVED)
25 SHRUBS

WESTIG DRIVE (SECONDARY STREET YARD)
385 LF - 37.5 LF (STREETYARD OVERLAP) x 12.5 (MULTIPLIER) = 4,344 SF
STREET YARD PROVIDED: 4,344 SF
REQUIRED PLANTINGS:
4,480 SF/600 SF / TREE = 7.5 OR 8 CANOPY TREES
4,480 SF/600 SF * 6 SHRUBS = 44.8 OR 45 SHRUBS
PROVIDED PLANTINGS:
8 CANOPY/SHADE TREES
45 SHRUBS

TOTAL STREET YARD PROVIDED: 7,000 SF
TOTAL IMPERVIOUS AREA IN STREETYARD: 165 SF
TOTAL IMPERVIOUS PERCENTAGE IN STREETYARD = 2.4%

INTERIOR SHADING AND LANDSCAPING

PARKING FACILITY AREA SHADING REQUIRED: 22,101 SF x 20% = 4,420 SF
PARKING FACILITY AREA SHADING PROVIDED: 4,569 SF

FOUNDATION LANDSCAPING

BUILDING FACE ADJACENT TO PARKING AREA: 17.5' HT x 240 LF = 4,200 SF
FOUNDATION LANDSCAPING REQUIRED: 4,200 SF x 12% = 504 SF
FOUNDATION LANDSCAPING PROVIDED: 944 SF

REQUIRED TREES:

15 TREES REQUIRED TO BE RETAINED OR PLANTED PER DISTURBED ACRE:
15 x 1.20AC = 18 TREES

TREES TO BE PLANTED: 23
TREES TO BE RETAINED: 1
TOTAL TREES: 24

PLANTING SCHEDULE								
REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS. ALL PLANTINGS MAY BE SUBSTITUTED DUE TO REGION OR LOCAL REQUIREMENTS IF NECESSARY								
MARK	COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE @ PLANTING	DETAIL	TYPE	SIZE	SHADING AREA
○	TULIP POPLAR 'ARNOLD'	LIRIODENDRON TULIPIFERA 'ARNOLD'	11	2" CALIPER MIN.	3/L2	CANOPY TREE	LARGE	707 SF
○	LACE BARK ELM 'DRAKE'	ULMUS PARVIFOLIA 'DRAKE'	12	2" CALIPER MIN.	3/L2	CANOPY TREE	LARGE	707 SF
○	WAX LEAF LIGUSTRUM	LIGUSTRUM JAPONICUM 'HOWARDII'	9	10 GALLON	4/L2	SHRUB	MED.	N/A
○	CHINESE WITCHHAZEL	LOROPETALUM CHINENSE 'RUBY'	70	3 GALLON	4/L2	SHRUB	SMALL	N/A
○	CHINESE HOLLY	ILEX CORNUTA 'CARISSA'	21	3" TALL (MIN.)	4/L2	SHRUB	SMALL	N/A
○	'EDWARD GOUCHER' ABELIA	ABELIA GRANDIFLORA 'EDWARD GOUCHER'	53	3 GALLON	4/L2	SHRUB	SMALL	N/A

LANDSCAPE SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND	
	NEW BUILDING CONSTRUCTION
	AREA OF CONCRETE
	AREA OF PAVING
	AREA OF GRAVEL
	AREA OF MULCH
	AREA OF SOD LAWN AREA WHICH EXCEEDS 25% SLOPE TO BE PROVIDED WITH SOD. REFER TO GRADING PLAN
	NEW POLE SIGN LOCATION
	NEW CONCRETE PAVING BLOCK
	NEW LIGHT POLE LOCATION
	NEW FENCE CONSTRUCTION

GENERAL NOTES:

1. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
2. SITE CONDITIONS BASED UPON SURVEY PROVIDED BY OWNER. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION.
3. REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. ALL PLANTING TYPES SHALL COMPLY WITH LOCAL GOVERNING CODES AND REGULATIONS. CONFORM TO REQUIREMENTS OF PLANT LIST AND TO THE AMERICAN ASSOCIATION OF NURSERYMEN "AMERICAN STANDARD OF NURSERY STOCK" AND "HORTICULTURAL STANDARDS" AS TO SPECIES, AGE, SIZE, AND PLANTING RECOMMENDATIONS.
5. NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT THE ARCHITECT'S PRIOR WRITTEN APPROVAL. ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CANNOT BE OBTAINED.
6. PLANT LOCATIONS ARE APPROXIMATE. ADJUST AS NECESSARY TO AVOID CONFLICTS.
7. QUANTITIES OF MATERIALS SHOWN ON LANDSCAPING PLAN TAKE PRECEDENCE OVER QUANTITIES SHOWN ON PLANTING SCHEDULE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES ON LANDSCAPING PLAN.
8. PROVIDE 4" TOPSOIL AT ALL SOD, SEED AND PLANTING AREAS. GRADE SHALL BE ADJUSTED FOR SOD THICKNESS. REFER TO CIVIL SITE GRADING PLAN FOR SLOPE REQUIREMENTS.
9. WHEN CLAY SOIL IS ENCOUNTERED IN THE ESTABLISHMENT OF THE LAWN OR THE INSTALLATION OF PLANT MATERIAL IT SHALL BE IMPROVED IN ACCORDANCE WITH STANDARD TRADE PRACTICE.
10. REESTABLISH TURF IN AREAS DISTURBED BY GRADING OR UTILITY TRENCHING IN THE RIGHT-OF-WAY.
11. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
12. ALL EXISTING VEGETATION NOTED TO BE REMOVED, WITH THE EXCEPTION OF TREES TO BE PROTECTED, SHALL BE REMOVED PRIOR TO INSTALLATION OF NEW PLANT MATERIAL.
13. ANY AREAS NOT INDICATED TO HAVE HARDSCAPE, PLANTING, OR MULCH SHALL BE SODDED OR SEEDED.
14. LANDSCAPE CONTRACTOR SHALL LOCATE PLANTS AND PLANTING BEDS BY USING SCALED DIMENSIONS FROM STREET, PROPERTY LINES, BUILDING, ETC.
15. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET BY THE USDA STANDARD FOR NURSERY STOCK SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., WASHINGTON, D.C.
16. LANDSCAPE CONTRACTOR SHALL AMEND PROPOSED PLANT BEDS AND PLANT PITS WITH SOIL CONDITIONERS. SOIL CONDITIONERS SHALL BE APPLICABLE TO THE GEOGRAPHIC AREA AND COMPLY WITH THE MANUFACTURER'S SPECIFICATIONS.
17. LANDSCAPE CONTRACTOR SHALL LIMIT DISTURBANCE WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN, AS NOTED. NO TEMPORARY OR PERMANENT STORAGE OF VEHICLES, EQUIPMENT, MACHINERY, OR ITEMS ASSOCIATED WITH CONSTRUCTION IS PERMITTED WITHIN THIS AREA. THESE AREAS ARE INDICATED AS "TREE PROTECTION AREA".
18. ALL PLANT BEDS AND SEED LINE LOCATIONS SHALL BE STAKED IN THE FIELD BY THE PROJECT LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO PLANT INSTALLATION.
19. ALL SINGLE TREES SHALL HAVE 6" DIAMETER MULCH RING CENTERED AROUND TRUNK AS INDICATED ON PLAN. GROUPINGS OF TREES AND SHRUBS SHALL HAVE MULCH BED AS WELL.
20. LANDSCAPE CONTRACTOR SHALL HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO PLANTING OPERATIONS TO VERIFY EXISTENCE OF ANY UTILITY CONFLICTS.
21. LANDSCAPE CONTRACTOR SHALL APPLY PRE-EMERGENT HERBICIDE TO ALL PLANTING BEDS PER MANUFACTURER'S SPECIFICATIONS.
22. ALL DISTURBED AREAS AS WELL AS PLANTING ISLANDS, NOT INCLUDING MULCHED AREAS, SHALL BE SEEDED PER THE SEEDING SCHEDULE LOCATED ON SHEET C4.
23. CONTRACTOR SHALL SEEK APPROVAL FROM ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE AND THE CITY OF WILMINGTON PRIOR MAKING ANY CHANGES TO THE PROJECT FROM THE APPROVED PLANS.

LANDSCAPING INSTALLATION NOTES:

- ALL LANDSCAPING SHALL BE OF NURSERY STOCK QUALITY AND SHALL BE INSTALLED IN A SOUND WORKMANLIKE MANNER AND ACCORDING TO ACCEPTED GOOD PLANTING PROCEDURES. ALL LANDSCAPING SHALL BE ADAPTABLE TO CLIMATE CONDITIONS OF THE AREA, AND CONSIDERATION SHALL BE GIVEN TO NOT PLANTING LARGE TREES NEAR UTILITIES. ALL LANDSCAPING SHALL BE MAINTAINED IN GOOD CONDITION AND IN ACCORDANCE WITH ALL PROVISIONS OF THIS ORDINANCE AS FOLLOWS:
1. ALL LANDSCAPING SHALL PRESENT AT ALL TIMES, A HEALTHY, NEAT, CLEAN, ORDERLY, DISEASE-FREE AND PEST-FREE APPEARANCE.
 2. ALL LANDSCAPING SOIL AND FILL SHALL BE FREE FROM WEEDS, REFUSE, AND DEBRIS AT ALL TIMES.
 3. ANY DEAD PLANT MATERIAL OR MATERIAL WHICH FAILS TO SHOW HEALTHY GROWTH MUST BE REMOVED WITHIN THIRTY (30) DAYS.
 4. REPLACEMENT OF REMOVED PLANT MATERIAL MUST TAKE PLACE WITHIN (90) DAYS OF REMOVAL OR NOTIFICATION BY THE JURISDICTIONAL AGENCY, WHICHEVER OCCURS FIRST.
 5. ANY REPLACEMENT PLANT MATERIAL MUST MEET THE SIZE AND OTHER CHARACTERISTICS OF NEWLY PLANTED MATERIAL THAT IT WOULD BE REPLACING.
 6. MAINTENANCE OF ALL LANDSCAPING IS THE RESPONSIBILITY OF THE OWNERS, JOINTLY AND SEPARATELY.
 7. TREES AND LARGE SHRUBS SHALL BE ADEQUATELY SUPPORTED, AS NECESSARY, USING STAKES AND GUYS. SUCH SUPPORTS SHALL BE DESIGNED SO AS TO PROTECT TREES AND SHRUBS FROM INJURY. TREES AND SHRUBS SHALL BE FASTENED TO THE SUPPORT WITH AN ACCEPTABLE COMMERCIAL TREE TIE OF PLASTIC OR HOSE COVERED WIRE.
 8. ANY LANDSCAPED AREA REQUIRED SHALL NOT BE ENCRUSTED UPON BY ANY TYPE OF VEHICLE. ALL LANDSCAPED AREAS MUST BE PROTECTED BY AN ENCRUSTMENT BARRIER. A VEHICLE MAY OVERHANG A LANDSCAPED AREA PROVIDED THAT A MINIMUM DISTANCE OF THREE (3) FEET SEPARATES THE VEHICLE AND ANY NEW PLANTING.

1730 Varsity Drive, Suite 500
Raleigh, North Carolina 27606
Phone: (919) 233-8091
Fax: (919) 233-8031
F-1222
www.mckimcreed.com



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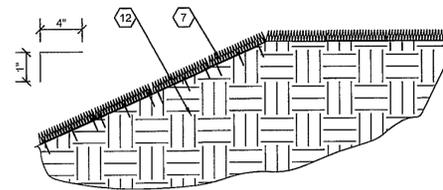
CRAIG A. SCHNEIDER, AIA
ARCHITECT
1736 East Sunshine, Suite 417
Springfield, Missouri 65804
417-862-9558
417-862-5265
e-mail: architect@esteryschneider.com

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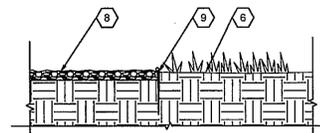


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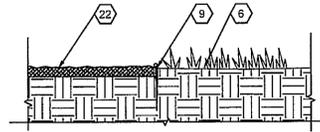
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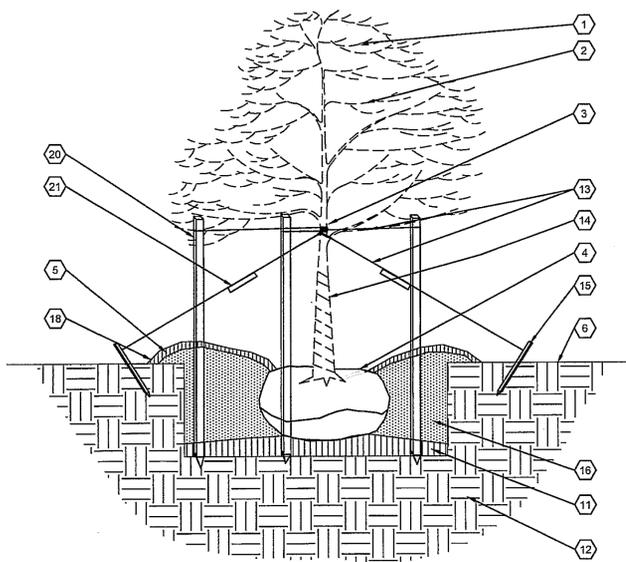
1 SODDING WITH PINS
L2 SCALE: 3/4" = 1'-0"



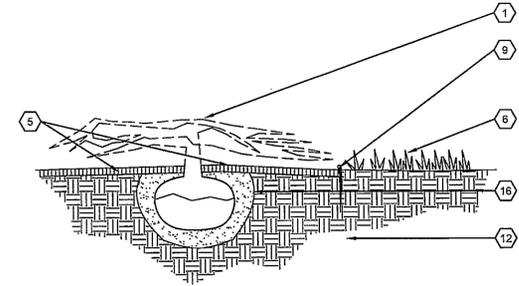
2 GRAVEL LANDSCAPE FABRIC
L2 SCALE: 3/4" = 1'-0"



5 MULCH LANDSCAPE FABRIC
L2 SCALE: 3/4" = 1'-0"



3 LARGE DECIDUOUS TREE PLANTING
L2 SCALE: 3/4" = 1'-0"



4 SMALL SHRUB PLANTING
L2 SCALE: 3/4" = 1'-0"

GENERAL NOTES:

- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.

KEY NOTES:

- 1 PLANTING: REFER TO PLANTING SCHEDULE FOR TYPE
- 2 SET TREE LEVEL AND PLUM. STRAIGHTEN AFTER SETTLEMENT IF NEEDED.
- 3 ENCASE WIRE AROUND TRUNK IN BLACK RUBBER. MOVE UP ABOVE EQUAL TO 1/2 TO 1/3 OF THE HEIGHT OF TREE.
- 4 SET TREE WITH TOP 1/3 OF ROOT ABOVE FINISH GRADE.
- 5 REFER TO LANDSCAPE PLAN FOR GROUND COVER TYPE AND LOCATIONS. PROVIDE 3" DEEP 5/8" CREEK GRAVEL OVER BLACK VISQUEEN VAPOR BARRIER OR 3" SHREDDED CYPRESS MULCH OVER BLACK VISQUEEN VAPOR BARRIER.
- 6 LAWN
- 7 REFER TO SITE GRADING PLAN FOR SLOPE. PLACE THREE PINS EVERY 2'-0", SPACING EQUALLY. SOD SHALL BE COMPOSED OF TWO VARIETIES MINIMUM OF FESCUE GRASS.
- 8 3" DEEP, 5/8" CREEK GRAVEL OVER BLACK VISQUEEN VAPOR BARRIER.
- 9 4" BLACK POLY VINYL EDGING
- 10 PREFERRED SOIL
- 11 COMPACTED PLANTING
- 12 SUB GRADE
- 13 TWO STRANDS OF WIRE
- 14 TRUNK WRAP
- 15 2" X 2" X 10" WOOD STAKES BURY BELOW FINISH GRADE
- 16 PREPARED PLANTING MIXTURE.
- 17 TREES 6'-0" IN HEIGHT OR LESS SHALL BE STAKED
- 18 EXTENTS OF PLANTING BERM TO HOLD WATER
- 19 TREES TALLER THAN 3'-0" MUST BE TIED.
- 20 2" X 4" STAKE - OR - METAL FENCE POST
- 21 1" X 4" X 10" WHITE WOOD FLAG
- 22 3" SHREDDED CYPRESS MULCH OVER BLACK VISQUEEN VAPOR BARRIER.



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CRAIG A. SCHNEIDER, AIA
ARCHITECT
1736 East Sunshine, Suite 417
Springfield, Missouri 65804
417.962.0558
417.962.3265
Fax: 417.962.3265
e-mail: architect@estertyschneider.com

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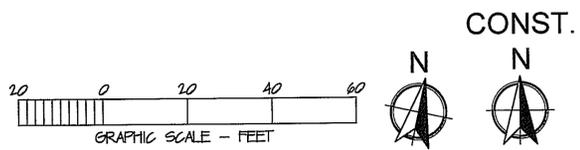
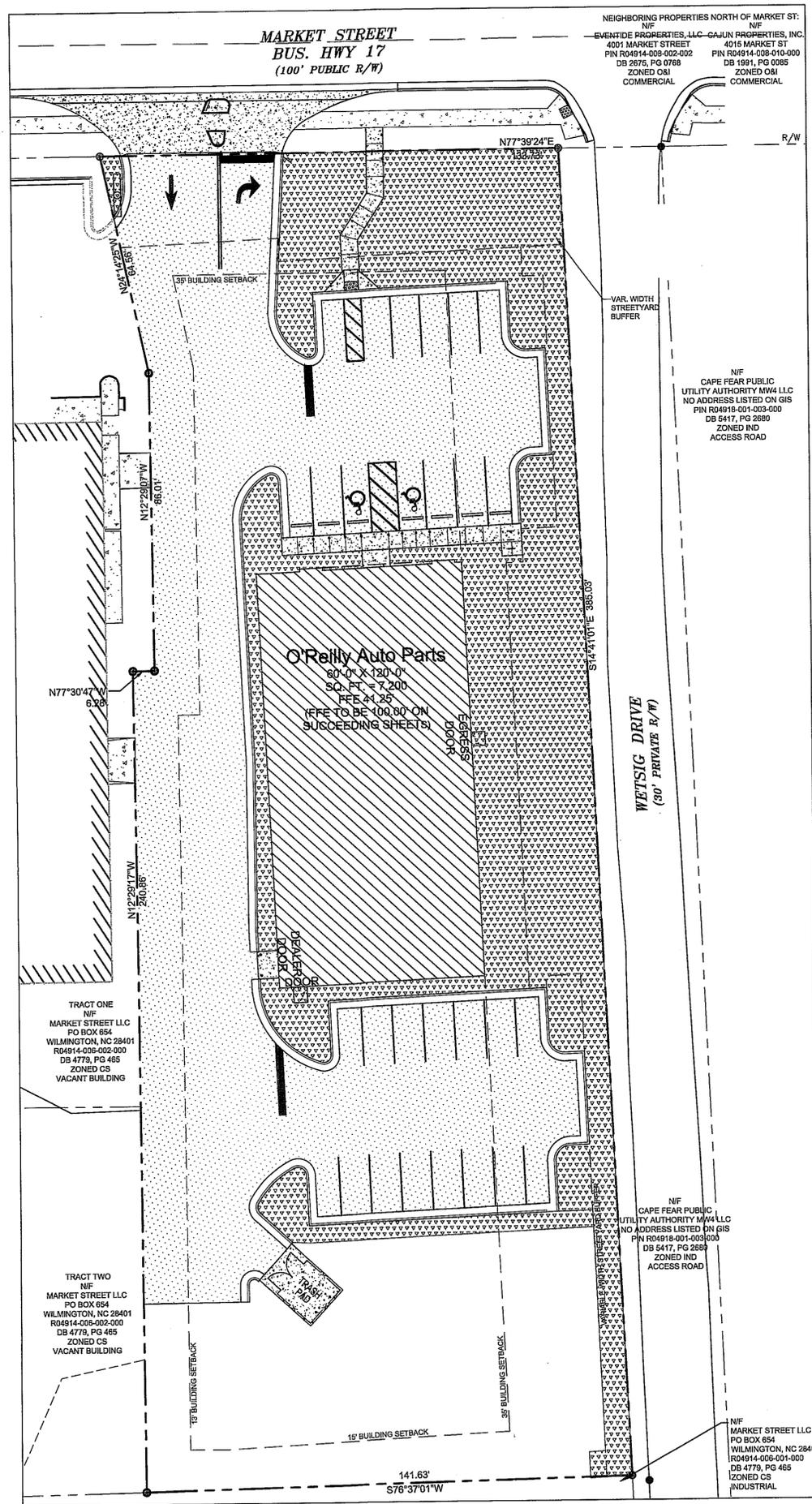
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07-01-13



1 IRRIGATION COVERAGE PLAN
 L3 SCALE: 1" = 20'-0"

LANDSCAPE SYMBOLS LEGEND	
REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND	
	NEW BUILDING CONSTRUCTION
	AREA OF CONCRETE
	AREA OF PAVING
	AREA OF DESIRED IRRIGATION COVERAGE
	NEW POLE SIGN LOCATION
	NEW CONCRETE PAVING BLOCK
	NEW LIGHT POLE LOCATION
	NEW FENCE CONSTRUCTION

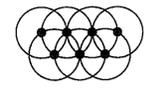
REFER TO LANDSCAPE PLAN FOR PLANTINGS

GENERAL NOTES:

- REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.

COVERAGE DETAIL:

- IRRIGATION HEAD SHALL BE PLACED TO PROVIDE 100% OVERLAP HEAD-TO-HEAD COVERAGE.



- A RAIN SENSOR AND ANTI-FREEZE ASSEMBLY SHALL BE INSTALLED ON IRRIGATION SYSTEM.
- THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERABLE SYSTEM FOR THE IRRIGATION OF ALL LANDSCAPE PLANTING(S) AND DESIRED COVERAGE AREAS ON SITE.
- THE IRRIGATION CONTRACTOR IS FULLY RESPONSIBLE FOR THE WORK UNTIL OWNER GIVES FINAL ACCEPTANCE.
- NO WATER TO BE SPRAYED ON SIDEWALK, PARKING LOT, ROAD OR ADJACENT PROPERTY. ADJUST ARC AND RADIUS OF REQUIRED SPRINKLERS AS NEEDED.
- ALL CIRCUIT PIPE IS TO BE CLASS 160 PVC OR HIGHER GRADE.
- ALL MAIN FITTINGS SHALL BE REINFORCED WITH 2000PSI POURED CONCRETE THRUST BLOCKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING THE REQUIRED SYSTEM IN COMPLETE ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND LAWS. ANY MODIFICATION MADE AFTER INSTALLATION TO CONFORM WITH SAID CODES, LAWS AND ORDINANCES SHALL BE PERFORMED AT CONTRACTORS EXPENSE AT NO ADDITIONAL COST TO GREILLY.



MCKIM & CREED
 1730 Varsity Drive, Suite 500
 Raleigh, North Carolina 27606
 Phone: (919) 233-8091
 Fax: (919) 233-8031
 F-1222
 www.mckimcreed.com

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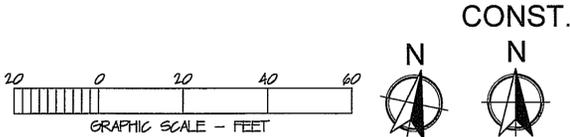
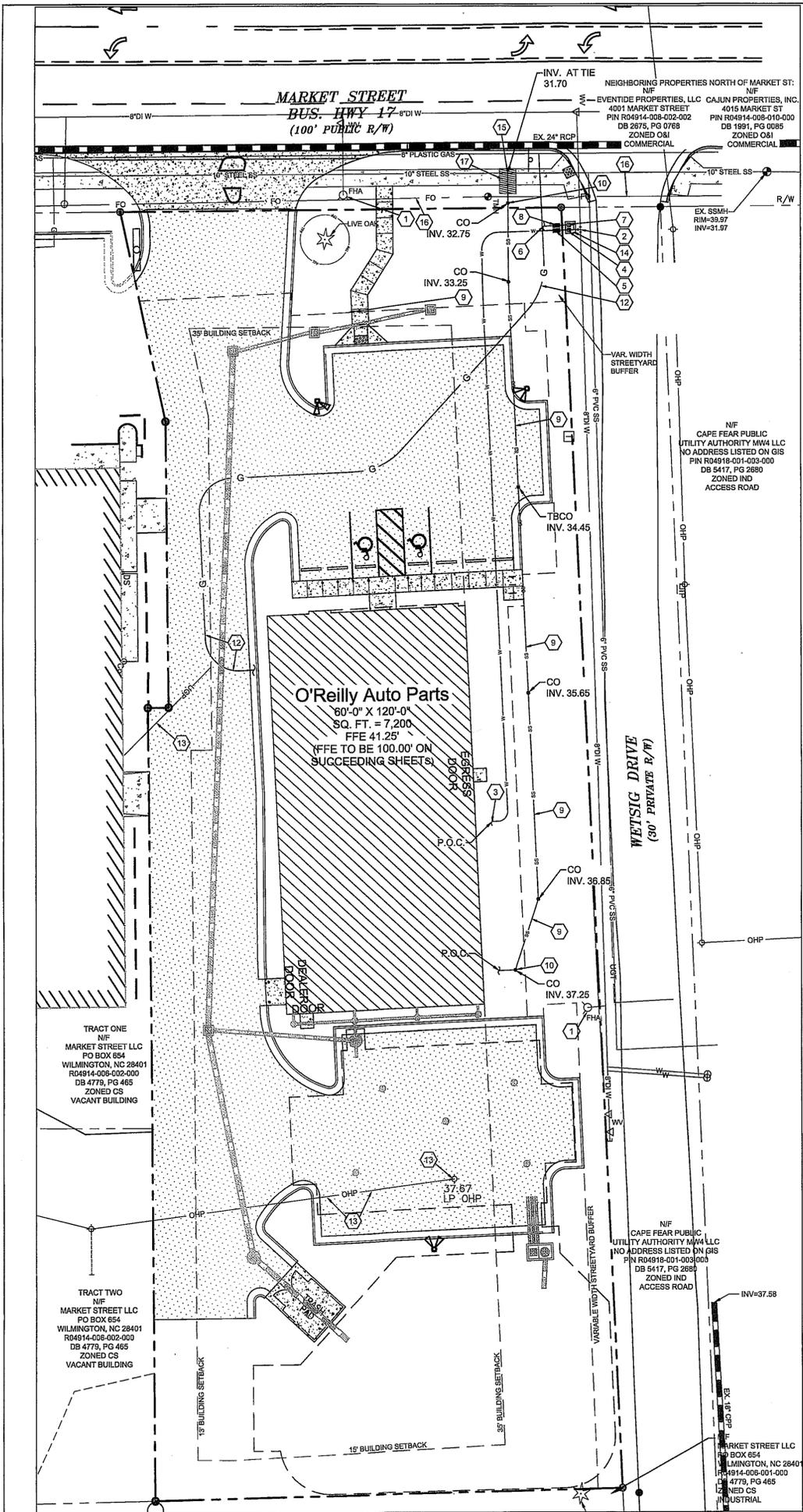


Craig A. Schneider, AIA
 ARCHITECT
 417.862.0558
 Fax: 417.862.3265
 e-mail: architec@estertyschneider.com

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1 SITE UTILITY PLAN
 SU1 SCALE: 1" = 20'-0"

KEY NOTES:

- 1 PROTECT EXISTING FIRE HYDRANT TO REMAIN
- 2 8"x2" TAPPING SLEEVE AND VALVE FOR WATER SERVICE. TAP TO BE MADE BY OPEN CUT PER NCDOT AND CAPE FEAR PUBLIC UTILITY AUTHORITY SPECIFICATIONS. SEE DETAIL SHEET WSD-1.
- 3 NEW 1" DOMESTIC WATER SERVICE CONNECTION. CONTRACTOR TO COORDINATE EXACT BUILDING TIE IN LOCATION WITH ARCHITECTURAL DRAWINGS.
- 4 NEW 1" WATER METER FOR DOMESTIC SERVICE. CONTRACTOR TO COORDINATE INSTALLATION WITH THE CAPE FEAR PUBLIC UTILITY AUTHORITY.
- 5 NEW 1" DOUBLE CHECK VALVE ASSEMBLY (DCVA) FOR DOMESTIC SERVICE. DCVA TO BE IN ABOVE-GROUND INSULATED ENCLOSURE. REFER TO DETAIL SHEET WSD-1.
- 6 NEW 1" IRRIGATION WATER SERVICE TO BE CAPPED AND PLUGGED.
- 7 NEW 1" WATER METER FOR IRRIGATION SERVICE. CONTRACTOR TO COORDINATE INSTALLATION WITH THE CAPE FEAR PUBLIC UTILITY AUTHORITY.
- 8 NEW 1" REDUCED PRESSURE ASSEMBLY (RPA) FOR IRRIGATION SERVICE. RPA TO BE IN ABOVE-GROUND INSULATED ENCLOSURE REFER TO DETAIL SHEET WSD-1.
- 9 NEW 4" SCH 40 PVC SANITARY SEWER PIPE. CONTRACTOR TO COORDINATE EXACT BUILDING TIE IN LOCATION WITH ARCHITECTURAL DRAWINGS. SEE DETAIL SHEET SSD-2.
- 10 SANITARY SEWER CLEANOUT TO BE LOCATED 18" INSIDE OF R/W. REFER TO CAPE FEAR PUBLIC UTILITY AUTHORITY DETAIL SHEETS SSD-2 AND WSD-2.
- 11 NEW SANITARY SEWER SERVICE TIE INTO EXISTING 10" STEEL SANITARY SEWER PIPE. REFER TO CAPE FEAR PUBLIC UTILITY AUTHORITY DETAIL SHEET SSD-2 FOR INSTALLATION REQUIREMENTS. CONTRACTOR TO VERIFY DEPTH OF EXISTING SANITARY SEWER PIPE AND CONTACT THE ENGINEER WITH ANY DISCREPANCIES.
- 12 NEW GAS SERVICE TO BUILDING. CONTRACTOR TO COORDINATE SERVICE INSTALLATION WITH PIEDMONT NATURAL GAS.
- 13 CONTRACTOR TO COORDINATE WITH DUKE ENERGY FOR RELOCATION OF EXISTING POWER LINES AND POLES.
- 14 METER BOX TO HOUSE METERS FOR BOTH IRRIGATION AND DOMESTIC WATER SERVICE. COORDINATE INSTALLATION WITH CAPE FEAR PUBLIC UTILITY AUTHORITY.
- 15 LIMITS OF EXCAVATION FOR SEWER SERVICE TIE. EXCAVATION SHALL BE APPROXIMATELY 5'W x 8' x 8'D TO REACH EXISTING SEWER MAIN.
- 16 CONTRACTOR TO VERIFY DEPTH OF EXISTING FIBER OPTIC LINE PRIOR TO CONSTRUCTION OF WATER AND SEWER SERVICES AND CONTACT THE OWNER'S REPRESENTATIVES WITH ANY DISCREPANCIES OR APPARENT CONFLICTS.

ASPHALT REPAIR NOTES:

1. PAVEMENTS SHALL BE CUT FULL DEPTH AND REMOVED.
2. AFTER TRENCH WORK IS COMPLETE, THE EDGES OF THE EXISTING PAVEMENT ALONG THE TRENCH SHOULD BE RECUIT A MINIMUM OF 1" WIDER ON EACH SIDE OF THE TRENCH; OR IF THE PAVEMENT IS UNDERMINED, TO 1" BEYOND THE UNDERMINED PORTION AND REMOVE THE PAVEMENT. THE DESIGN SECTION STATED BELOW WOULD BE PLACED IN THOSE AREAS.
3. THE PAVEMENT DESIGN SECTION FOR PAVEMENT REPAIR SHALL BE:
 - 11.0" B25.0C OR B25.0B ASPHALT CONCRETE BASE COURSE (ACCOMPLISHED IN 2 LIFTS MINIMUM)
4. MILL THE ENTIRE AREA 1.5' FROM 15" BACK FROM THE EDGE OF THE FINAL PAVEMENT CUT.
5. OVERLAY ENTIRE AREA WITH 1.5" S9.5C OR S9.5B ASPHALT CONCRETE SURFACE COURSE (13" OF ASPHALT TOTAL).

SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND	
	NEW BUILDING CONSTRUCTION
	AREA OF CONCRETE
	AREA OF PAVING
	NEW POLE SIGN LOCATION
	NEW CONCRETE PAVING BLOCK
	NEW LIGHT POLE LOCATION
	NEW FENCE CONSTRUCTION

EXISTING CONDITIONS NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND IDENTIFY ALL EXISTING UTILITIES PRIOR TO SUBMITTING A BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
2. EXISTING UTILITIES ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.
3. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COSTS TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE OR MODIFICATION OF EXISTING UTILITIES BY THE CONTRACTOR OR EFFECTED UTILITY COMPANY SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.

GENERAL UTILITY NOTES:

1. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
2. ALL WATER & SEWER LINES SHALL BE INSTALLED WITH A MINIMUM OF 3 FEET OF COVER.
3. MAINTAIN 18" MINIMUM VERTICAL SEPARATION BETWEEN UTILITIES.
4. VERIFY ALL ILLUSTRATED UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF CONFLICTS ARE ENCOUNTERED.
5. CONTRACTOR SHALL COORDINATE UTILITY RELOCATION OR ABANDONMENT WITH LOCAL UTILITY COMPANIES AS REQUIRED.
6. UTILITIES WILL NOT ENCROACH UPON PROTECTED AREAS OR RUN PARALLEL THROUGH ANY REQUIRED BUFFER.
7. WATER & SEWER SHALL BE AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS. WHERE LOCAL CONDITIONS PREVENT A SEPARATION OF 10 FEET, THE WATER MAIN MAY BE LAID CLOSER PROVIDED THAT THE ELEVATIONS OF THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER WITH A HORIZONTAL SEPARATION OF AT LEAST 3 FEET.
8. ALL PIPE LENGTHS AND SLOPES AS INDICATED ON THE DRAWINGS ARE TO BE CONSIDERED AS GUIDELINES. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE COMPENSATED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ALL STORM LINES FROM STRUCTURE TO STRUCTURE.
9. ALL PIPE SHALL SLOPE IN A POSITIVE DIRECTION.
10. ALL TRENCHES SHALL BE CUT TO THE APPROPRIATE DEPTHS WITH THE BOTTOM OF THE TRENCHES ALSO SLOPED IN THE DIRECTION OF THE DRAINAGE FLOW.
11. TRENCHES ARE TO BE BACKFILLED IN 8" LIFTS WITH A GRANULAR SOIL MIX. USE EXISTING MATERIAL WHERE APPROPRIATE AND MIX IN BORROW AS NEEDED. BACKFILL SUBDRAINS WITH AN AGGREGATE MIX. TAMP AND COMPACT TRENCHES TO AVOID UNWANTED SETTLEMENT.
12. ALL GRADES AND INVERTS SHALL REFERENCE THE PROJECT BENCH MARK. IF BENCHMARK IS NOT AVAILABLE THE FINISH FLOOR SHALL BECOME THE REFERENCE POINT. NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.
13. ALL CONSTRUCTION TO CONFORM TO SITE PLAN APPROVED BY THE CAPE FEAR PUBLIC UTILITY AUTHORITY.
14. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF UTILITY TIE-INS.
15. ALL NEW UTILITY LINES ARE TO BE INSTALLED UNDERGROUND.
16. ALL VALVE BOXES & COVERS, SHALL MEET ASTM A48, GRADE 35B IRON REQUIREMENTS.
17. SLOPES SHALL NOT BE GREATER THAN 3:1 WHERE UNDERGROUND ELECTRIC UTILITIES LINES ARE PROPOSED.
18. CONTRACTOR SHALL SEEK APPROVAL FROM ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE AND THE CITY OF WILMINGTON PRIOR MAKING ANY CHANGES TO THE PROJECT FROM THE APPROVED PLANS.

SANITARY SEWER NOTES:

1. SEWER LINES TO BE INSTALLED PER THE CAPE FEAR PUBLIC UTILITY AUTHORITY'S STANDARDS AND SPECIFICATIONS.
2. ALL SEWER PIPES TO BE SCH 40 PVC.
3. ALL SEWER LINE INSTALLATION TO BE OF CONTINUOUS MATERIAL BETWEEN CLEANOUTS.
4. SEWER SERVICES LOCATED OUTSIDE OF PUBLIC EASEMENTS SHALL BE PRIVATELY MAINTAINED.
5. ALL CLEANOUTS SHALL BE FLUSH WITH FINISHED GRADE.
6. CONTRACTOR TO LOCATE LATERAL TIE-INS PER PLUMBING PLANS.
7. PLACE CLEANOUTS ON SANITARY SEWER RUN PER PLUMBING CODE REQUIREMENTS.
8. CONTRACTOR TO PROVIDE RECORD DRAWINGS TO OWNER.
9. SEWER LINES SHALL BE 18" ABOVE OR 10" HORIZONTAL SEPARATION FROM WATER LINES AND OTHER UTILITIES. THERE SHALL BE 24" VERTICAL SEPARATION FROM STORM SEWER LINES.

WATER DISTRIBUTION NOTES:

1. WATER LINES TO BE INSTALLED PER THE CAPE FEAR PUBLIC UTILITY AUTHORITY'S STANDARDS AND SPECIFICATIONS.
2. WATER SERVICE TO ADJACENT PROPERTIES SHALL BE MAINTAINED AND REMAIN UNINTERRUPTED FOR THE DURATION OF THE PROJECT'S CONSTRUCTION.
3. CONTRACTOR TO LOCATE BUILDING TIE-INS PER PLUMBING PLANS.
4. WATER METERS TO BE INSTALLED BY THE CAPE FEAR PUBLIC UTILITY AUTHORITY. CONTRACTOR TO COORDINATE INSTALLATION WITH THE CITY.
5. RPAS SHALL BE INSTALLED BY THE CONTRACTOR AS APPROVED BY THE CAPE FEAR PUBLIC UTILITY AUTHORITY. ASSEMBLIES TO BE INSTALLED IN ABOVE GROUND ENCLOSURES SHALL MEET ALL ASSE 1089 R-VALUE REQUIREMENTS.
6. ALL WATER SERVICE LINES SHALL HAVE A MINIMUM OF 3" OF COVER AS MEASURED FROM FINISHED GRADE AT THE LOCATION WHERE INSTALLED.
7. WATER LINES SHALL BE 18" ABOVE OR 10" HORIZONTAL SEPARATION FROM SANITARY SEWER LINES OR OTHER UTILITIES. THERE SHALL BE 24" VERTICAL SEPARATION FROM STORM SEWER LINES.

STORMWATER MANAGEMENT PLAN
 APPROVED
 CITY OF WILMINGTON
 ENGINEERING DEPARTMENT
 DATE _____ PERMIT # _____
 SIGNED _____

Approved Construction Plan
 Name _____ Date _____
 Planning _____
 Traffic _____
 Fire _____

MCKIM & CREED
 1730 Varsity Drive, Suite 500
 Raleigh, North Carolina 27606
 Phone: (919) 233-8091
 Fax: (919) 233-8031
 F-1222
 www.mckimcreed.com



CRAIG A. SCHNEIDER, AIA
 ARCHITECT
 1736 East Sunshine, Suite 417
 Springfield, Missouri 65804
 417.862.0558
 Fax: 417.862.3265
 e-mail: architect@estertyschneider.com

O'Reilly AUTO PARTS
 4014 MARKET STREET
 WILMINGTON, NC

O'Reilly AUTO PARTS
 233 SOUTH PATTERSON
 SPRINGFIELD, MISSOURI 65802
 417-862-2674 PHONE

COMM #	3168
DATE:	09-23-11
REVISION DATE:	09-10-12
	04-02-13
	04-19-13
	05-01-13
	07-01-13