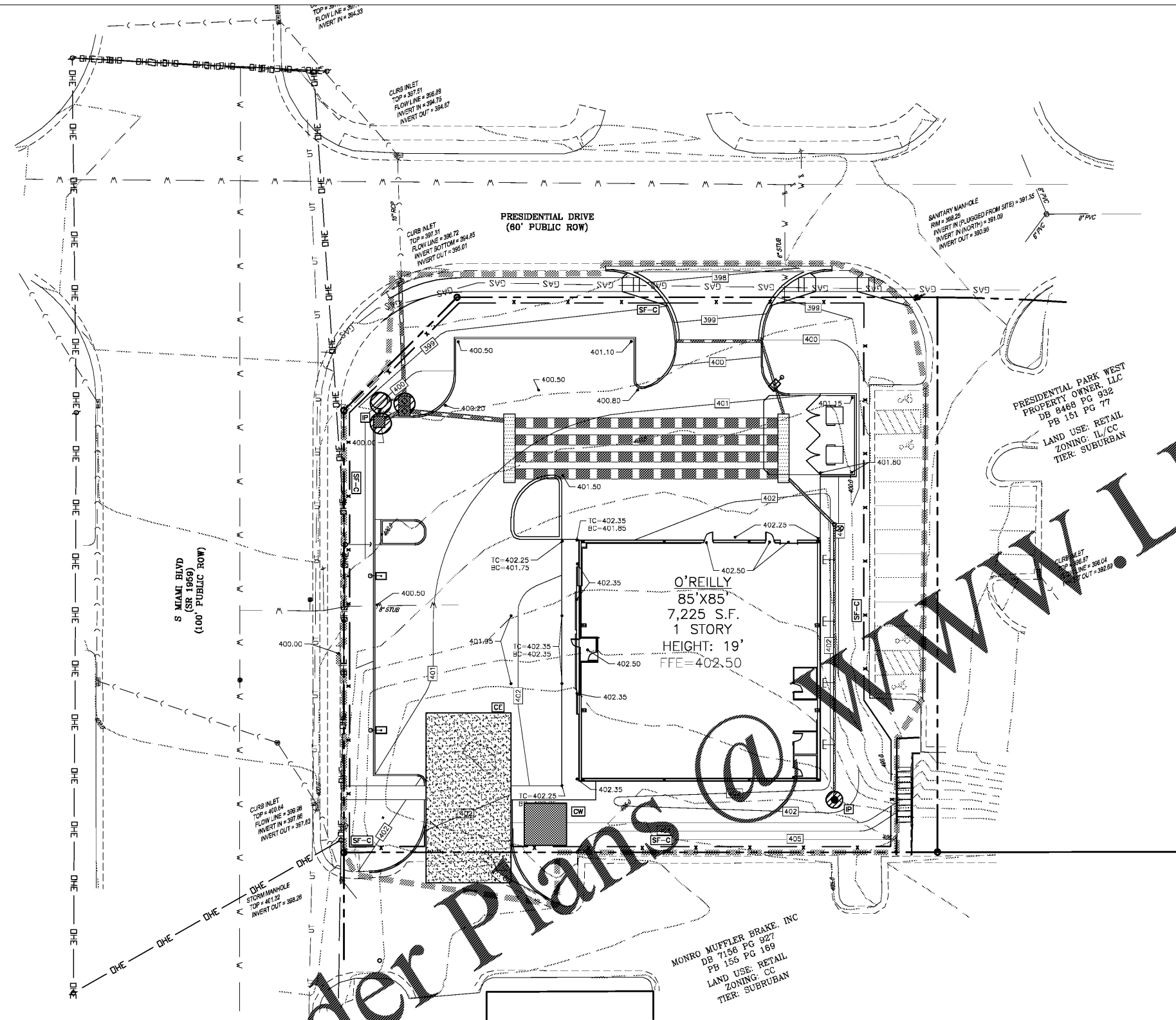


EROSION CONTROL NOTES

- NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES.
- TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED, AND REDISTRIBUTED OVER ALL GRADED AREAS TO A MINIMUM OF 4". ALL AREAS NOT COVERED BY BUILDINGS OR PAVING TO RECEIVE TOPSOIL.
- ALL GRADED AREAS INCLUDING SLOPES ARE TO BE STABILIZED WITHIN 14 DAYS AFTER GRADING IS COMPLETED. COORDINATE WITH LANDSCAPING DRAWINGS AS TO TYPE OF PERMANENT GROUND COVER TO BE USED. AT A MINIMUM, ALL DISTURBED AREAS ARE TO BE SEEDED AND MULCHED.
- CUT AND FILL SLOPES ARE NOT TO EXCEED 3:1 UNLESS OTHERWISE NOTED.
- CONSTRUCT EROSION CONTROL DEVICES AS SHOWN AND WHERE DESIGNATED BY THE ENGINEER.
- ALL NEW STRUCTURES AND EXISTING STRUCTURES SHALL HAVE ALL SEDIMENT REMOVED PRIOR TO ACCEPTANCE.
- ALL DIMENSIONS AND LOCATIONS OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS NECESSARY TO BE EFFECTIVE.
- WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSES THEY SHALL BE REMOVED.
- SILT FENCES ARE TO BE REPLACED WHEN EFFECTIVENESS IS SIGNIFICANTLY REDUCED, OR AS DIRECTED.
- EROSION CONTROL MEASURES SHALL NOT EXCEED MINIMUM CRITERIA, STANDARDS AND SPECIFICATIONS SET BY THE CITY OF DURHAM.
- CONTRACTOR SHALL INSURE THAT ANY EROSION CONTROL MEASURES DO NOT CAUSE WATER TO ENTER ONTO ROADS.
- CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL REQUIRED INSPECTIONS AND TO SUBMIT ALL REQUIRED DOCUMENTATION TO THE LOCAL AUTHORITY.
- TOPSOIL MATERIAL HAS BEEN SAVED FOR USE IN FINISH GRADING. AFTER CONSTRUCTION IS COMPLETE, RUBBISH, STONES, USE FOR AREAS DESIGNATED TO RECEIVE GRASS. IF STOCKPILED TOPSOIL IS NOT SUFFICIENT QUANTITY TO COMPLETE WORK, FURNISH ACCEPTABLE TOPSOIL FOR GRASS AREAS UNLESS NOTED OTHERWISE ON THE DRAWINGS. GRASS AREAS SHALL BE DISTURBED DURING CONSTRUCTION NOT TO BE PLANTED OR BUILT UPON.
  - ACCEPTABLE TOPSOIL MATERIAL SHALL BE DEFINED AS NATURAL FERTILE, AGRICULTURAL SOIL, CAPABLE FOR SUSTAINING VIGOROUS PLANT GROWTH, UNIFORM COMPOSITION THROUGHOUT, WITHOUT ADMIXTURE OF SUBSOIL, FREE OF STONES, LUMPS, PLANTS AND THEIR ROOTS, STICKS, OR OTHER EXTRANEANUS MATERIALS IN A FROZEN OR MUDDY CONDITION.
  - GRASS SEED SHALL BE OF THE PREVIOUS SEASON'S CROP AND THE DATE OF ANALYSIS SHOWN ON EACH BAG FOR TESTING. GRADING CONTRACTOR SHALL HIRE A QUALIFIED LANDSCAPE CONTRACTOR TO PREP FOR AND PERFORM ALL PERMANENT SEEDING.
  - THE SEED SHALL COMPLY WITH ALL PROVISIONS OF THE U.S. DEPARTMENT OF AGRICULTURE AS TO LABELING, PURITY, AND GERMINATION.
  - PERMANENT STANDS OF GRASS SHALL BE ESTABLISHED 30 DAYS PRIOR TO GRAND OPENING. ALL WATERING, MAINTENANCE, MOWING, ETC. SHALL BE PERFORMED BY THE SITE CONTRACTOR WITH ACCEPTANCE BY OWNER.
- SEE SHEET C-08 FOR ADDITIONAL DETAILS ON EROSION AND SEDIMENT CONTROL.

SEQUENCE FOR CONSTRUCTION

- EROSION AND SEDIMENT CONTROL (E&S) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE LAND DISTURBING ACTIVITIES OCCUR.
- UPON COMPLETION OF CLEARING AND GRUBBING, COMMENCE ROUGH EARTHWORK OPERATIONS ON THE SITE FOR EXCAVATION, FILLING, GRADING AND COMPACTION. PERFORM EARTHWORK EXCAVATION, FILLING, GRADING AND COMPACTION OPERATIONS TO BRING THE SITE TO SUBGRADE ELEVATION ONLY IN THOSE AREAS WHERE CONSTRUCTION ACTIVITY WILL CONTINUE OR IS PLANNED TO COMMENCE WITHIN FOURTEEN (14) DAYS OR SEVEN (7) DAYS. STABILIZATION MEASURES SHALL BE IMPLEMENTED WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED FOR MORE THAN FOURTEEN (14) DAYS OR SEVEN (7) DAYS.
- UPON COMPLETION OF THE FINAL GRADING OF THE STORMWATER POND, NOTIFY THE ENGINEER TO INSPECT GRADING, TOP AND BOTTOM ELEVATIONS AND DIMENSIONS FOR APPROVAL PRIOR TO PLACEMENT OF SOD. UPON THE APPROVAL BY THE ENGINEER, IMMEDIATELY PLACE SOD AND HYDROSEED OR SEED AND MULCH THE RESPECTIVE AREAS OF THE STORMWATER POND WHERE INDICATED ON THE DRAWINGS.
- PLACE SOIL MATERIAL, GRADE AND COMPACT SUBGRADE OF THE SITE IN PREPARATION FOR THE PROPOSED IMPROVEMENTS.
- COMPLETE ALL STAGING AREAS IN PREPARATION FOR BUILDING CONSTRUCTION.
- INSTALL DRAINAGE STRUCTURES AND PIPING OVER THE SITE AS INDICATED ON THE DRAWINGS. BACKFILL, COMPACT AND REGRADE THE DISTURBED AREA.
- RESTORE THE DISTURBED AREA OF THE STORMWATER POND SIDE SLOPE GRADE AND SOD DUE TO INSTALLATION OF THE INLET STRUCTURES AND PIPING. INSTALL PERMANENT EROSION CONTROL BLANKET AND RIPRAP WHERE INDICATED ON THE DRAWINGS.
- AS THE DRAINAGE STRUCTURES AND PIPING ARE INSTALLED, PLACE INLET PROTECTION DEVICES AT THE LOCATIONS OF ALL GRATE INLETS AND CURB INLETS AS INDICATED ON THE SWPPP DRAWINGS.
- INSTALL SANITARY SEWER STRUCTURES AND GRAVITY MAIN PIPING WITHIN THE SITE WHERE SPECIFICALLY INDICATED ON THE DRAWINGS. BACKFILL, COMPACT AND REGRADE ALL DUE TO THE INSTALLATION OF THE SANITARY SEWER.
- NOTIFY SURVEYOR TO COMPLETE AS-BUILT OF THE INSTALLED SANITARY SEWER MANHOLES AND GRAVITY MAIN PIPING. FLUSH AND PRESSURE TEST THE SANITARY SEWER AS REQUIRED.
- INSTALL POTABLE WATER MAIN PIPING AND APPURTENANCES (VARIOUS SIZES AND TYPES) OVER THE SITE WHERE SPECIFICALLY INDICATED ON THE DRAWINGS. BACKFILL, COMPACT AND REGRADE THE DISTURBED AREA.
- NOTIFY SURVEYOR TO COMPLETE AS-BUILT OF THE INSTALLED POTABLE WATER MAIN PIPING AND APPURTENANCES.
- COORDINATE WITH LOCAL UTILITY COMPANIES FOR THEIR RESPECTIVE INSTALLATION OF UTILITY CONDUITS FOR ELECTRIC AND TELEPHONE. COORDINATE AND CONFIRM FOR EACH INSTALLED UTILITY THE COMPLETION FOR BACKFILL, COMPACTION, REGRADING AND STABILIZATION OF THE DISTURBED AREA AND GRASS WHERE NEEDED IF ALL SITE WORK IS COMPLETE IN THE AFFECTED AREA.
- COMPLETE EARTHWORK EXCAVATION, FILLING, GRADING AND COMPACTION OPERATIONS TO BRING SITE AND TO SUBGRADE ELEVATION AFTER ALL UTILITY INSTALLATION WORK IS COMPLETE.
- HYDROSEED OR SEED AND MULCH ALL DISTURBED AREAS THAT WERE DISTURBED DUE TO CONSTRUCTION ACTIVITY THAT ARE NOT OTHERWISE SPECIFIED TO BE SODDED AS INDICATED ON THE DRAWINGS.
- COMPLETE SITE SUBGRADE IN PREPARATION FOR BASE MATERIAL.
- INSTALL CURB AND CURB AND GUTTER. (INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION).
- PLACE AND COMPACT PAVEMENT BASE MATERIAL. (INLET PROTECTION MAY BE TEMPORARILY REMOVED TO PLACE BASE COURSE).
- PLACE CONCRETE PAVEMENT WHERE SPECIFIED OVER THE BASE MATERIAL AND CONTINUE THROUGHOUT UNTIL COMPLETE.
- PLACE FIRST LIFT OF ASPHALTIC PAVEMENT OVER BASE MATERIAL AND CONTINUE THROUGHOUT UNTIL COMPLETE.
- PLACE SOD AND INSTALL PLANTINGS WHERE INDICATED ON THE DRAWINGS AND AT ALL UNPAVED AND/OR DISTURBED AREAS FROM CONSTRUCTION ACTIVITY.
- PLACE FINAL LIFT OF ASPHALTIC PAVEMENT OVER THE SITE. UPON ASPHALT CURING INSTALL PAVEMENT MARKINGS AND SIGNAGE AS INDICATED ON THE DRAWINGS.
- REMOVE ANY FINAL STAGES OF DEMOLITION REQUIRED AFTER PROPOSED IMPROVEMENTS ARE COMPLETE AND PERFORM RESTORATION, FINAL GRADE DRESSING AND SODDING NOT PREVIOUSLY PERFORMED.
- REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO ASPHALTIC PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS ARE TO BE PAVED LAST).
- PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE.
- UPON COMPLETION OF ALL CONSTRUCTION ACTIVITY, CLEAN THE PAVEMENT OF ALL DEBRIS AND SAND, REMOVE DEBRIS AND SAND FROM INLETS AND DRAINAGE PIPING. REMOVE ALL CONSTRUCTION DEBRIS FROM THE STORMWATER POND AND FROM ALL SODDED/SEEDDED AREAS.
- WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&S PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT [deq.nc.gov/NG01](http://deq.nc.gov/NG01) TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (e-NOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE e-NOT HAS BEEN FILED OUT.



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Ground Stabilization Criteria

SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS
Perimeter ditches, swales, ditches, & slopes	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length & are not steeper than 2:1, 14 days allowed
Slopes 3:1 or flatter	14 days	7 days for slopes > 50 feet in length
All other areas with slopes flatter than 4:1	14 days	None

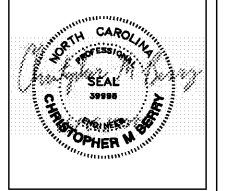
EROSION CONTROL LEGEND

CE	TEMPORARY GRAVEL CONSTRUCTION EXIT	
SF-A	SILT FENCE (TYPE A, NON-WIRE BACKED)	
SF-C	SILT FENCE (TYPE C, WIRE BACKED)	
CW	CONCRETE TRUCK WASH OUT AREA	
IP	INLET PROTECTION	
	LIMITS OF DISTURBANCE (41,850 SF)	

**BERRY ENGINEERS LLC**  
 CIVIL ENGINEER  
 3665 KETTER ST. SUITE 109  
 CLEVELAND, TN 37312  
 TEL: (423) 790-5880  
 DBA BERRY ENGINEERS, PLLC; FIRM LICENSE: P-1188

DEVELOPER:  
**BELTERA PARTNERS, LLC.**  
 728 SHADES CREEK PKWY  
 SUITE 130  
 BIRMINGHAM, AL 35209

PROJECT:  
**O'REILLY AUTO PARTS**  
 2801 S MIAMI BLVD  
 DURHAM, NC



REVISIONS

NO.	DESCRIPTION
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SHEET NAME:  
**EROSION CONTROL PLAN**

DATE: 06/15/2019

DRAWN BY: CSH

CHECKED BY: CMB

PROJECT NO.: 19065

SHEET NUMBER:  
**C-04**

