



JULY 7, 2020
 DATE

ALBEMARLE ROAD PARTNERS, LLC

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 SUITE 200
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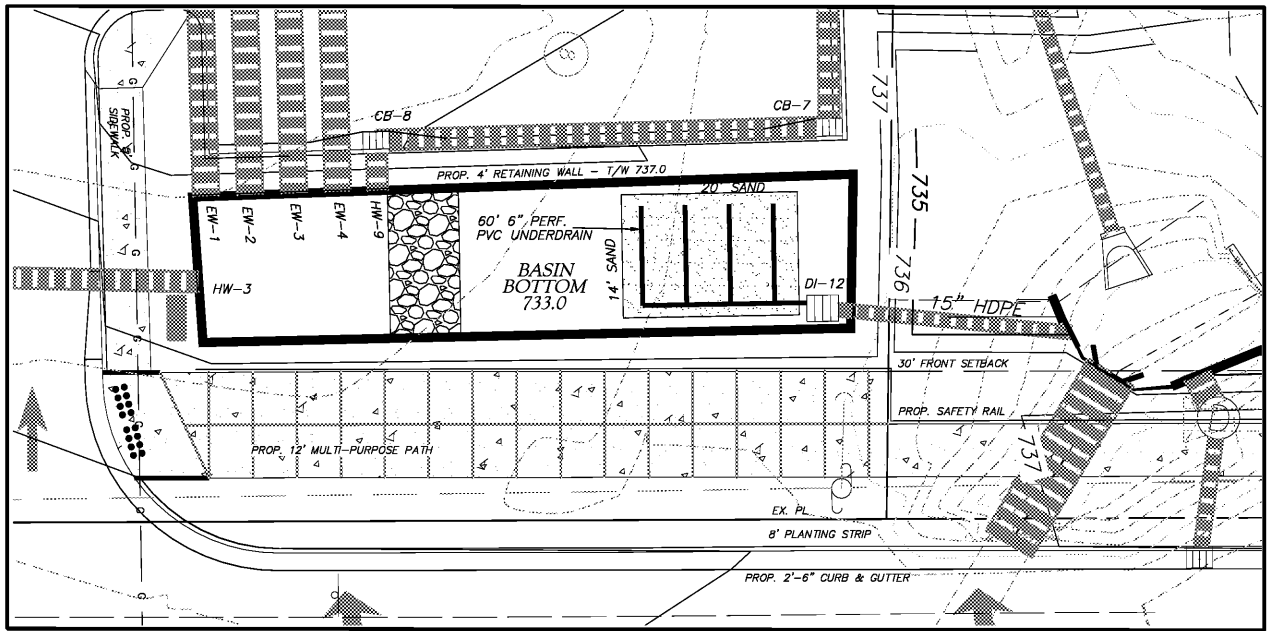
ALBEMARLE ROAD SHOPS
 8837 ALBEMARLE ROAD CHARLOTTE, NC 28227
STORM WATER QUALITY PLAN

REVISIONS

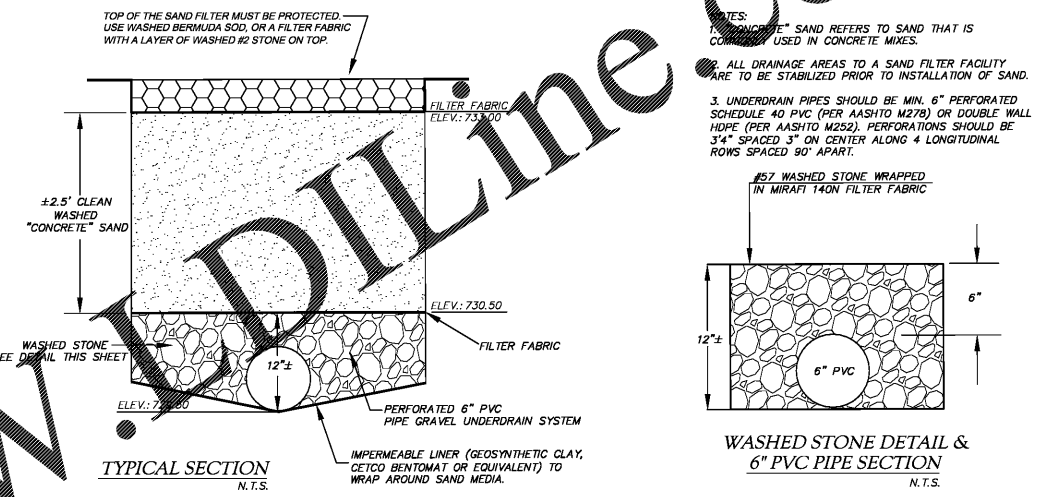
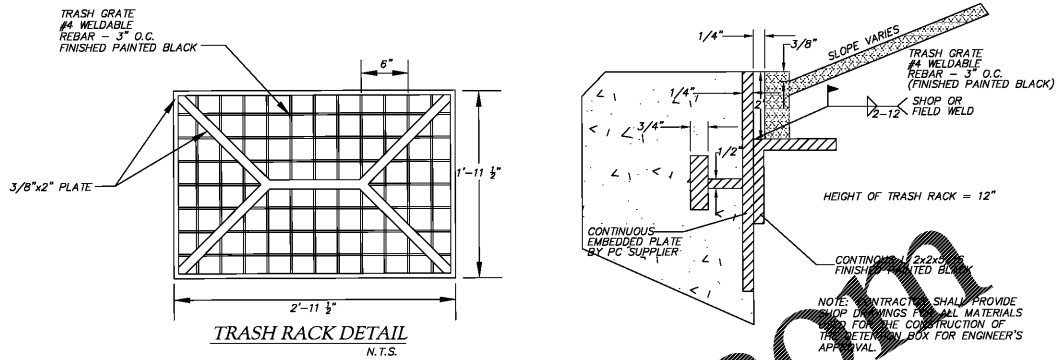
PROJECT NO.: 2019.13
 SCALE: 1" = 20'
 DRAWN BY: PAB
 CHECKED BY: MSL

SHEET NO.:

C12.0



WATER QUALITY/RETENTION PLAN VIEW
 SCALE: 1"=10'



- CONSTRUCTION SEQUENCE FOR SAND FILTER:**
1. CONSTRUCT BASIN AREA PER EROSION CONTROL PLAN FOR TEMPORARY USE AS SKIMMER BASIN.
 2. ONCE SITE IS STABILIZED, REMOVE SKIMMER DEVICE AND SEDIMENT, THEN REGRADE SAND FILTER AND SEDIMENT FOREBAY TO PLAN DIMENSIONS.
 3. DRAINAGE AREA MUST BE STABILIZED BEFORE FILTRATION CONTROLS AND FILTER MEDIA ARE INSTALLED.
 4. INSTALL ALL UNDERDRAIN DEVICES AND RISER PIPES FROM FOREBAY TO SAND FILTER.
 5. INSTALL SAND IN FILTER AREA.
 6. TEST SAND INFILTRATION TO BE SURE IT MEETS REQUIREMENTS SPECIFIED.
 7. INSTALL FILTER FABRIC, TOPSOIL, AND SOD.
 8. HAVE BASIN AS-BUILT SENT TO THE ENGINEER FOR CERTIFICATION.

NOTE:
 CALL THE WATER QUALITY INSPECTOR TO SET UP A BMP PRE-CONSTRUCTION MEETING PRIOR TO STARTING ANY WORK ON BMP. THIS MEETING SHOULD TAKE PLACE AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY BMP AND SHALL INCLUDE THE DESIGN ENGINEER TO ENSURE ENGINEER INSPECTIONS ARE PERFORMED AT KEY BMP INSTALLATION PHASES.

BMP Inset Table
Sand Filter

Project Name:	Albemarle Road Shops
Sequence ID:	1
Drainage Area (acres):	0.90
Land Use/Development Type:	Commercial
Percent Built-Up Area:	83.33%
Sediment Chamber Length (ft.):	26
Sediment Chamber Width (ft.):	28
Sediment Chamber Height (ft.):	2
Sand Filter Type:	Surface
Media Depth (ft.):	2.5
Flow Divertor Present (Y/N):	N
Regulated By:	Post Construction Ordinance
Treatment Effectiveness:	Optimal
NC State Plane X (easting):	1493382
NC State Plane Y (northing):	536290

SAND FILTER BMP SUMMARY CHART

PEAK CONTROL STORM EVENTS	PRE-DEVELOPMENT RUNOFF	POST-ROUTING RUNOFF	POST-ROUTING RUNOFF	ELEVATION
TOP OF DAM				737.00
50YR - 6HR	2.72	6.50	3.59	736.34
25YR - 6HR	2.25	5.35	2.01	736.34
10YR - 6HR	1.65	4.50	1.54	733.00
BMP	REQUIRED	PROVIDED	ELEVATION	
CPv	6157	6157	734.63	
WQv	2614	2614	734.30	
SAND FILTER	279	280.00	733.00	
SAND FILTER MAX ALLOWABLE BUA				22670 SF
TOTAL SITE MAX ALLOWABLE BUA				33663 SF

PCCO SUMMARY

Original Parcel ID Number(s):	1091204	
Development Type:	Commercial	
Subject to PCCO? Y/N	Y	
If NO, why?		
Watershed:	Catawba	
Disturbed Area (ac):	1.40	
Site Area (ac):	1.22	
	DA#1	DA#2
Total on-site Drainage Area (ac):	0.9	0
Existing Built-upon-area (SF):	4387	0
Existing BUA to be removed (SF):	4387	0
Existing BUA to remain (SF):	0	0
Proposed New BUA (SF):	33750	0
Proposed % BUA:	86.09%	0.00%
Density (High / Low):	High	0
Total Post-Project BUA for site:	0.77 Ac.	
Development or Redevelopment?	Development	
Natural Area Required (ac):	0.122 Ac.	
Natural Area Provided (ac):	0.183 Ac.	
Total stream buffer protected on-site (ac):	0.02 Ac.	
Transit Station Area? Y/N	N	
Distressed Business District? Y/N	N	
Mitigation Type (if applicable)	N	
Natural Area mitigation? Y/N	N	
Buffer Mitigation? Y/N	N	
Total Phosphorous Mitigation? Y/N	N	

