

SOIL CHARACTERISTICS CHART			
SOIL TYPE	AURA-SASSAFRAS SANDY LOAMS, 2-5% SLOPES	SASSAFRAS LOAMY SAND, 5-10% SLOPES	UDORTHTENTS-URBAN LAND COMPLEX, 0-8% SLOPES
SYMBOL	AvtB	SabC	Udaub
PERCENT OF SITE COVERAGE	2.3%	53.6%	44.1%
HYDROLOGIC SOIL GROUP	B	B	D
DEPTH TO RESTRICTIVE LAYER	15 TO 40 IN (AURA) > 80 IN (SASSAFRAS)	> 80 IN	> 80 IN
SOIL PERMEABILITY	0.20 TO 0.60 IN / HR (AURA) 0.20 TO 2.00 IN / HR (SASSAFRAS)	0.20 TO 2.00 IN / HR	0.06 TO 0.20 IN / HR
DEPTH TO WATER TABLE	> 80 IN	> 80 IN	> 80 IN

- SEQUENCE OF CONSTRUCTION**
- INSTALL INLET FILTERS ON EXISTING INLETS. (1 DAY)
  - INSTALL SILT FENCE, CONSTRUCTION ENTRANCE SILT FENCING, AND TREE PROTECTION FENCING. (3 DAYS)
  - CLEAR TREES AND BRUSH, PERFORM DEMOLITION. (14 DAYS)
  - ROUGH GRADING AND TEMPORARY SEEDING. (21 DAYS)
  - CONSTRUCT CONDUIT AND STORM PIPING. (21 DAYS)
  - INSTALL INLET PROTECTION ON NEW INLETS. (1 DAY)
  - BUILDING AND SITE CONSTRUCTION. (2 MONTHS)
  - SOIL COMPACTION TESTING AND/OR SUBSOIL COMPACTION REMEDIATION. (2 DAYS)
  - TOPSOIL AND FINAL GRADING OF LOT. (3 DAYS)
  - LANDSCAPING IMPROVEMENTS AND FINAL SEEDING. (7 DAYS)
  - PERMANENT STABILIZATION. (3 DAYS)
  - REMOVE SILT FENCE AND SOIL EROSION MEASURES. (2 DAYS)
- NOTE:**
- TIME DURATIONS ARE APPROXIMATE AND ARE INTENDED TO ACT AS A GENERAL GUIDE TO THE CONSTRUCTION TIMELINE. ALL DURATIONS ARE SUBJECT TO CHANGE BY CONTRACTOR. CONTRACTOR SHALL SUBMIT CONSTRUCTION SCHEDULE TO TOWNSHIP AND ENGINEER. CONTRACTOR SHALL PHASE CONSTRUCTION ACCORDINGLY.
  - ALL BASINS MUST BE PROPERLY CONSTRUCTED AND BASIN SLOPES MUST BE PERMANENTLY STABILIZED PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
  - BASIN MUST BE CONSTRUCTED - INCLUDING ALL ASSOCIATED STORMWATER PIPING/INLETS - AND SIDE SLOPES MUST BE PERMANENTLY STABILIZED PRIOR TO THE START OF BUILDING PAD CONSTRUCTION.
  - RIP-RAP LINED CHANNEL VIA THE DESIGN REQUIREMENTS OF THE SOIL EROSION CONTROL STANDARDS.  
[HTTPS://WWW.NJ.GOV/AGRICULTURE/DIVISIONS/ANR/PDF/2014NSOILEROSIONCONTROLSTANDARDSCOMPLETE.PDF](https://www.nj.gov/agriculture/divisions/anr/pdf/2014NSOILEROSIONCONTROLSTANDARDSCOMPLETE.PDF)

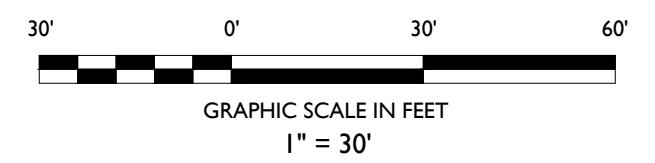
SYMBOL	DESCRIPTION
---	PROPERTY BOUNDARY
---	ADJACENT PROPERTY BOUNDARY
---	LOD
---	PROPOSED LIMIT OF DISTURBANCE
---	PROPOSED SILT FENCE
---	PROPOSED TREE PROTECTION FENCE
---	PROPOSED HAY BALES
---	PROPOSED STOCKPILE & EQUIPMENT STORAGE
---	PROPOSED STABILIZED CONSTRUCTION ENTRANCE
---	PROPOSED INLET PROTECTION FILTER
---	SOIL BOUNDARY
---	SOIL COMPACTION TESTING LOCATION
---	SOIL COMPACTION TESTING AREA

**GLoucester County SOIL EROSION AND SEDIMENT CONTROL NOTES**

- ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
- THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
- ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND THEIR RATES SHOULD BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE MULCH NETTING OR LIQUID MULCH BINDER).
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER, AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE GLOUCESTER SOIL CONSERVATION DISTRICT.
- ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
- A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS.
- ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
- PAVED AREAS MUST BE KEPT CLEAN AT ALL TIMES.
- ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
- ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC. (SEE DETAIL). THE BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.
- NJSA 424-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- MULCHING IS REQUIRED ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
- OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
- A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
- THE GLOUCESTER SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
- ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
- IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL STOCKPILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
- ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE GLOUCESTER SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
- METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A PH OF 4 OR LESS.
- TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS, AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE MULCH NETTING OR LIQUID MULCH BINDER).
- MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
- ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
- USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
- ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMAN AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.
- NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPING PLAN. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.
- THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURE TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.

**STABILIZED CONSTRUCTION ACCESS MAINTENANCE NOTES**

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADWAYS (PUBLIC OR PRIVATE) OR OTHER IMPERVIOUS SURFACES MUST BE REMOVED IMMEDIATELY.
- WHERE ACCUMULATION OF DUST/SEDIMENT IS INADEQUATELY CLEANED OR REMOVED BY CONVENTIONAL METHODS, A POWER BROOM OR STREET SWEEPER WILL BE REQUIRED TO CLEAN PAVED OR IMPERVIOUS SURFACES. ALL OTHER ACCESS POINTS WHICH ARE NOT STABILIZED SHALL BE BLOCKED OFF.



DATE	ISSUE	BY	DESCRIPTION
03/08/2022	JCL	JCL	FOR TENANT REVIEW
03/17/2022	JCL	JCL	FOR RESOLUTION COMPLIANCE
06/11/2021	JMK	JMK	FOR TOWNSHIP SUBMISSION

NOT APPROVED FOR CONSTRUCTION

**STONEFIELD**  
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**FINAL MAJOR SITE PLAN**  
**FAST FOOD RESTAURANT WITH DRIVE-THRU FACILITIES**

DELSEA DRIVE REDEVELOPMENT NODE 4  
SHEET #2 OF 4, LOT 4.07  
PROJECT # 2021-001  
101 BLACKWOOD-BARBORSBORO ROAD  
TOWNSHIP OF WASHINGTON  
GLOUCESTER COUNTY, NJ

JEFFREY A. MARTELL, P.E.  
NEW JERSEY LICENSE No. 47290  
LICENSED PROFESSIONAL ENGINEER

**STONEFIELD**  
engineering & design

SCALE: 1" = 30' PROJECT ID: T-1747

TITLE:  
**SOIL EROSION & SEDIMENT CONTROL PLAN**

DRAWING:  
**C-9**

PROJECT: T-1747 FEMER - ROUTE 41 AND EGG HARBOR ROAD, DEPTFORD, NJ. CADD/NOTICE: KAM/2021.01.11.15.02.00