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ALBEMARLE ROAD SHOPS  
8837 ALBEMARLE ROAD CHARLOTTE, NC 28227  
EROSION CONTROL DETAILS

REVISIONS

PROJECT NO.: 2019.13  
SCALE: N.T.S.  
DRAWN BY: PAB  
CHECKED BY: MSL

SHEET NO:

C4.0

**SEEDBED PREPARATION NOTES**

1. SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN. COMPLETE GRADING BEFORE PREPARING SEEDBED.
2. AREAS TO BE SEEDBED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP ON SLOPES 2:1 OR FLATTER. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4" TO 6" DEEP. IF SOILS ARE COMPACTED DURING GRADING LOOSEN TO A DEPTH OF 6" TO 8".
3. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE TO PREVENT INTERFERENCE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION.
4. APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS. SOILS WITH PH HIGHER THAN 6 NEED NOT BE LIMED. IF PH IS NOT KNOWN, APPLY LIME ACCORDING TO SEEDING SPECIFICATIONS BELOW. APPLY LIME AND INCORPORATE INTO TOP 4" TO 6" OF SOIL.
5. APPLY FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF NO SOIL TEST HAS BEEN PERFORMED, APPLY FERTILIZER ACCORDING TO SEEDING SPECIFICATIONS BELOW.
6. ROUGHEN SEEDBED SURFACE PRIOR TO APPLICATION. GROOVE OR FURROW SLOPES STEEPER THAN 3:1.
7. SEE TABLE BELOW FOR STABILIZATION TIMEFRAMES FOR VARIOUS DISTURBED CONDITIONS.

**PERMANENT SEEDING SPECIFICATIONS - (PS)**

**LOW MAINTENANCE AREAS**

STEEP SLOPES OR STONY, SHALLOW OR DRY SOILS	DATES	TYPE	RATE
GENTLE SLOPES, AVERAGE SOILS	AUG. 25 - SEPT. 15	TALL FESCUE	100 LB/ACRE
	FEB. 15 - MAR. 21	SERICEA LESPEDEZA	30 LB/ACRE
		KOBE LESPEDEZA	10 LB/ACRE

GENTLE SLOPES, DRY SOILS, PHYSICAL LIMITATIONS	DATES	TYPE	RATE
GENTLE SLOPES, DRY SOILS, PHYSICAL LIMITATIONS	AUG. 25 - SEPT. 15	BLEND OF 50% KY-31 TALL FESCUE AND 50% MIXTURE OF TWO OR MORE TURF TYPE TALL FESCUES	200 - 250 LB/ACRE

**HIGH MAINTENANCE AREAS**

GENTLE SLOPES, SOILS WITH AVERAGE OR BETTER MOISTURE, COOL SITES	DATES	TYPE	RATE
GENTLE SLOPES, SOILS WITH AVERAGE OR BETTER MOISTURE, COOL SITES	AUG. 25 - SEPT. 15	BLEND OF TWO TURF-TYPE FESCUES (KY-31) AND EITHER WOOD KENTUCKY BLUEGRASS OR PERENNIAL BLUEGRASS VARIETIES (10X)	200 - 250 LB/ACRE

GENTLE SLOPES, DRY SOILS, PHYSICAL LIMITATIONS	DATES	TYPE	RATE
GENTLE SLOPES, DRY SOILS, PHYSICAL LIMITATIONS	AUG. 25 - SEPT. 15	BLEND OF 50% KY-31 TALL FESCUE AND 50% MIXTURE OF TWO OR MORE TURF TYPE TALL FESCUES	200 - 250 LB/ACRE

**GRASS-LINED CHANNELS, AVERAGE SOILS**

DATES	TYPE	RATE
AUG. 25 - OCT.	TALL FESCUE	200 LB/ACRE OR 4 - 5 LB/1000 SF

**GRASS-LINED CHANNELS, DRY SOILS**

DATES	TYPE	RATE
APRIL 15 - JUNE 30	COMMON BERMUDA GRASS	40 - 80 LB/ACRE OR 1 - 2 LB/1000 SF

AMENDMENTS SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE OF GROUND AGRICULTURAL LIMESTONE AND 1000 LB/ACRE OF 10-10-10 FERTILIZER. DRY SOIL GRASS-LINED CHANNELS SHALL USE 3000 LB/ACRE OF GROUND AGRICULTURAL LIMESTONE AND 500 LB/ACRE OF 10-10-10 FERTILIZER. MULCH SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE OF STRAW. STRAW SHALL BE ANCHORED BY TACKING WITH ASPHALT. NETTING OR MULCH ANCHORING TOOL - JUTE OR EXCELISOR MATTING SHALL BE USED IN GRASS LINED CHANNELS TO CALCULATED HIGH WATER DEPTH.

SITE AREA DESCRIPTION	STABILIZATION TIMEFRAMES		TIMEFRAME EXCEPTIONS
	PERIMETER DIKES, SWALES, DITCHES AND SLOPES	PERIMETER DIKES, SWALES, DITCHES AND SLOPES	
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE	
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE	
SLOPES STEEPER THAN 3:1	7 DAYS	NONE	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH	
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES	

**SEEDING SCHEDULE & NOTES**

**TEMPORARY SEEDING SPECIFICATIONS - (TS)**

DATES	TYPE	RATE	AMENDMENTS
JAN. 1 - MAY 1	RYE (GRASS)	120 LB/ACRE	2000 LB/ACRE GROUND AGRICULTURAL LIME - STONE AND 750 LB/ACRE OF 10-10-10 FERTILIZER
FEB. 15 - MAR. 21	ANNUAL LESPEDEZA OR KOBE	50 LB/ACRE	
MAY 1 - AUG. 15	GERMAN MILLET	40 LB/ACRE	2000 LB/ACRE GROUND AGRICULTURAL LIME - STONE AND 750 LB/ACRE OF 10-10-10 FERTILIZER
AUG. 15 - DEC. 30	RYE (GRASS)	120 LB/ACRE	2000 LB/ACRE GROUND AGRICULTURAL LIME - STONE AND 1000 LB/ACRE OF 10-10-10 FERTILIZER

MULCH SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE STRAW. STRAW SHALL BE ANCHORED BY TACKING WITH ASPHALT. NETTING OR MULCH ANCHORING TOOL.

GRADED SLOPES AND FILLS - THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES.

**SPACING GUIDE FOR SLOPE BREAKS**

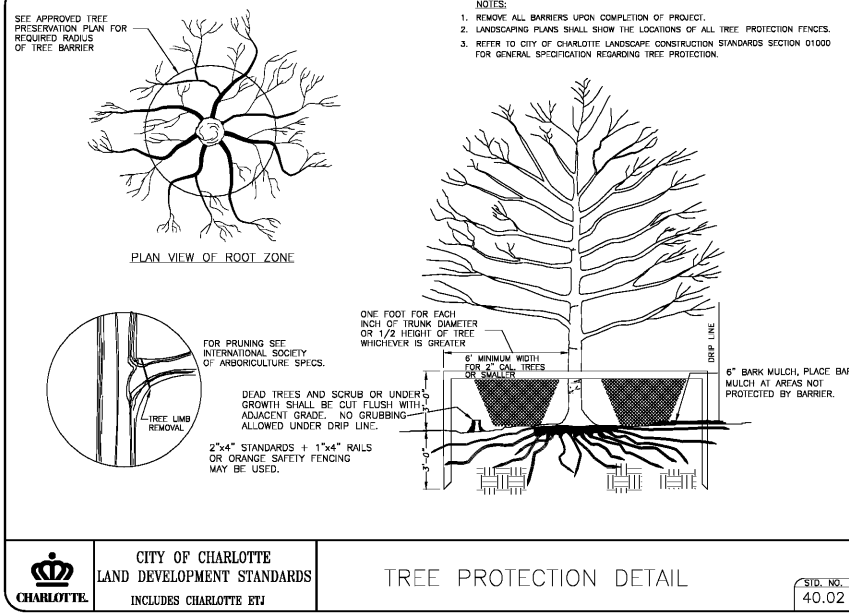
SLOPE	SPACING (FT.)
STEEP SLOPES	2:1 20'
	3:1 35'
	4:1 45'
LONG SLOPES	15-25% 50'
	10-15% 80'
	6-10% 125'
	3-6% 200'
	<3% 300'

PER NCSDA NCDOT CHAPTER 6.02, TABLE 6.02a

TEMPORARY SEEDING MAINTENANCE: RESEED AND MULCH ALL AREAS WHERE SEEDLING EMERGENCE IS POOR, OR WHERE EROSION OCCURS. DO NOT MOW. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.

PERMANENT SEEDING MAINTENANCE: GRASS MUST BE MOWN TO REDUCE COMPETITIVENESS WITH PERMANENT OR LONG TERM VEGETATION. RE-SEEDING SHALL BE PROVIDED AS NEEDED TO ENSURE ADEQUATE GROUND-COVER.

- NOTES:**
1. REMOVE ALL BARRIERS UPON COMPLETION OF PROJECT.
  2. LANDSCAPING PLANS SHALL SHOW THE LOCATIONS OF ALL TREE PROTECTION FENCES.
  3. REFER TO CITY OF CHARLOTTE LANDSCAPE CONSTRUCTION STANDARDS SECTION 0100 FOR GENERAL SPECIFICATION REGARDING TREE PROTECTION.



CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ  
**TEMPORARY SEEDING SCHEDULE**  
SID. NO. 30.02 REV. 40.02

**FOR LATE WINTER AND EARLY SPRING:**

**SEEDING MIXTURE:**  
RYE (GRASS) - 120 LB/ACRE  
ANNUAL LESPEDEZA (KOBE) - 50 LB/ACRE (OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE)

**SEEDING DATES:**  
JAN. 1 - MAY 1

**FOR SUMMER:**

**SEEDING MIXTURE:**  
GERMAN MILLET - 40 LB/ACRE (A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE)

**SEEDING DATES:**  
MAY 1 - AUG. 15

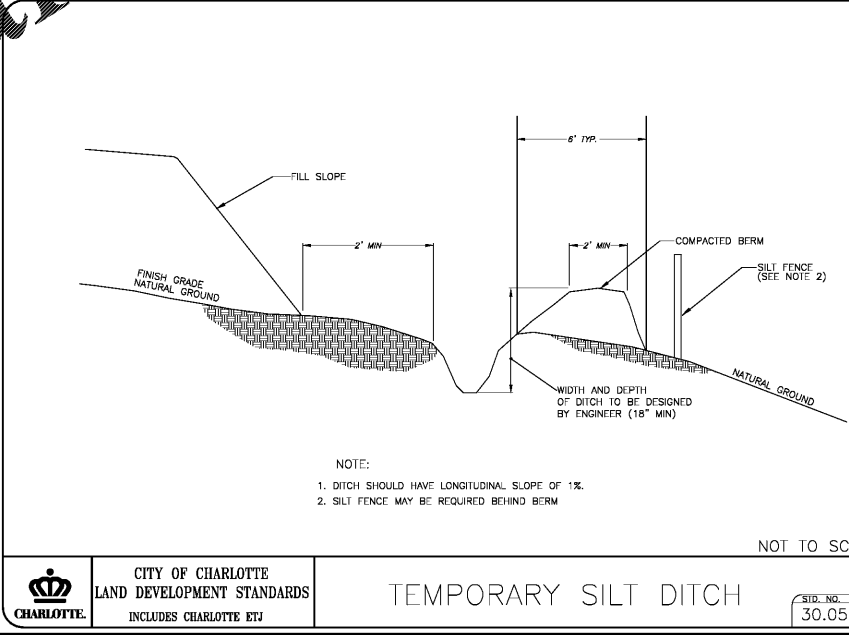
**FOR FALL:**

**SEEDING MIXTURE:**  
RYE (GRASS) - 120 LB/ACRE

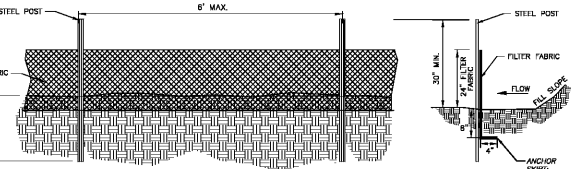
**SEEDING DATES:**  
AUG. 15 - DEC 30

FOR ADDITIONAL INFORMATION, REFER TO CONSTRUCTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (CSPDM), SECTION 6.10. FOR PERMANENT SEEDING SPECIFICATIONS INCLUDING SEED BED PREP, SEASONAL LIMITATIONS FOR SEEDING OPERATIONS, THE KINDS OF GRADES OF FERTILIZERS, THE KINDS OF SEEDS, AND THE TIMES OF APPLICATION OF LIMESTONE, FERTILIZER, AND SEED, REFER TO NCDENR ESCDPM SECTION 6.11 AND THE CHARLOTTE LANDSCAPE CONSTRUCTION STANDARDS SECTION 0400 SEEDING AND SOODING OF TURFGRASS.

CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ  
**TEMPORARY SILT DITCH**  
SID. NO. 30.17 REV. 30.17 9



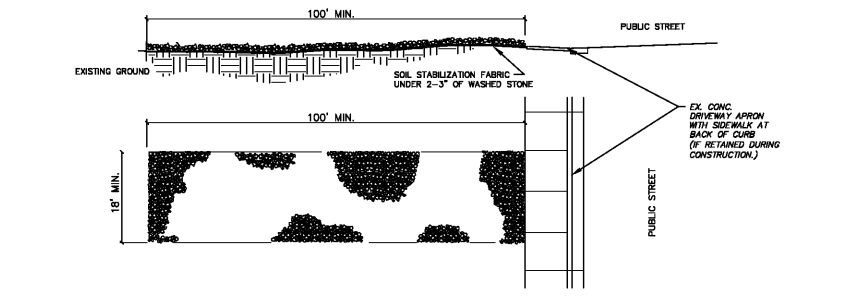
CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ  
**TEMPORARY SILT DITCH**  
SID. NO. 30.05 REV. 30.05 15



- GENERAL NOTES:**
1. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
  2. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
  3. TURN SILT FENCE UP SLOPE AT ENDS.
  4. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO SWIM BUFFERS, STREAMS OR WETLANDS (REFER TO SWIM BUFFER GUIDELINES). THE COLOR CHANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
  5. DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT. OF FENCE.
  6. SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.52A NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
  7. DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.
- MAINTENANCE NOTES:**
1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
  2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
  3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEED.

CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ  
**TEMPORARY SILT FENCE**  
SID. NO. 30.06A REV. 30.06A 15

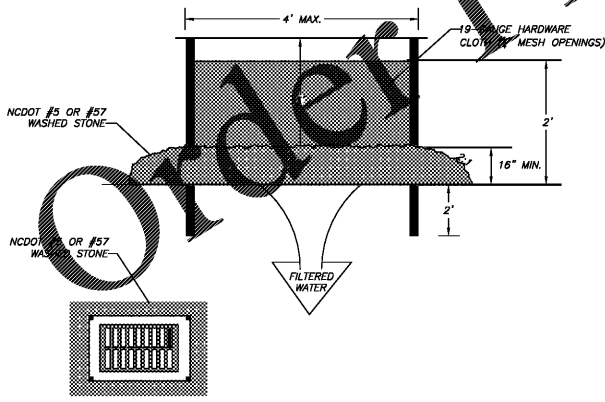
- NOTES:**
1. A STABILIZED ENTRANCE PAD OF 2'-3" OF WASHED STONE AND/OR RAILROAD BALLAST SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
  2. FILTER FABRIC OR COMPACTED CRUSHER RUN STONE SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
  3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  4. ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY. ANY AGGREGATE TRACKED INTO THE ROADWAY MUST BE SWEEP BACK ON SITE ON A NIGHTLY BASIS.
  5. WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN SEE STD. NO. 30.11B.
  6. CDDT MAY REQUIRE A STANDARD COMMERCIAL DRIVEWAY (STD. 10.24 & 10.25) TO ACCESS THE CONSTRUCTION SITE IF THE DRIVEWAY IS ON A THROUGHFARE, OR ON ANY STREET WITH AN EXISTING SIDEWALK TO REMAIN OPEN DURING CONSTRUCTION.
  7. FOLLOW WORK AREA TRAFFIC CONTROL HANDBOOK (MATCH) FOR SIDEWALK CLOSURE OR DETOUR/DIVERSION.



CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ  
**STABILIZED CONSTRUCTION ENTRANCE**  
SID. NO. 30.11A REV. 30.11A 15

**GENERAL NOTES:**

1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5-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.
3. 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.
4. PLACE CLEAN GRAVEL (NO DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 18 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUND COVER.



CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ  
**HARDWARE CLOTH AND GRAVEL INLET PROTECTION**  
SID. NO. 30.09 REV. 30.09 1