

12/26/2007

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

MAGNETIC

Seeding mixture

Species	Rate (lb/acre)
Tall fescue	80
Sericea lespedeza	20
Kobe lespedeza	10

Seeding notes

1. After Aug. 15 use unscarified sericea seed.
2. Where periodic mowing is planned or a neat appearance is desired, omit sericea and increase Kobe lespedeza to 40 lb/acre.
3. To extend spring seeding dates into June, add 15 lb/acre hulled Bermudagrass. However, after mid-Apr. it is preferable to seed temporary cover.

Nurse plants

Between May 1 and Aug. 15, add 10 lb/acre German millet or 15 lb/acre Sudangrass. Prior to May 1 or after Aug. 15 add 40 lb/acre rye (grain).

Seeding dates

	Best	Possible
Fall:	Aug. 25 - Sept.15	Aug. 20 - Oct. 25
Late winter:	Feb. 15 - Mar. 21	Feb. 1 - Apr. 15

Fall is best for tall fescue and late winter for lespedezas. Overseeding of Kobe lespedeza over fall-seeded tall fescue is very effective.

Soil amendments

Apply lime and fertilizer according to soil tests, or apply 4,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

Mulch

Apply 4,000 lb/acre grain straw or equivalent cover of another suitable mulch. Anchor straw by tacking with asphalt, netting, or roving or by crimping with 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.

SEEDBED PREPARATION NOTES:

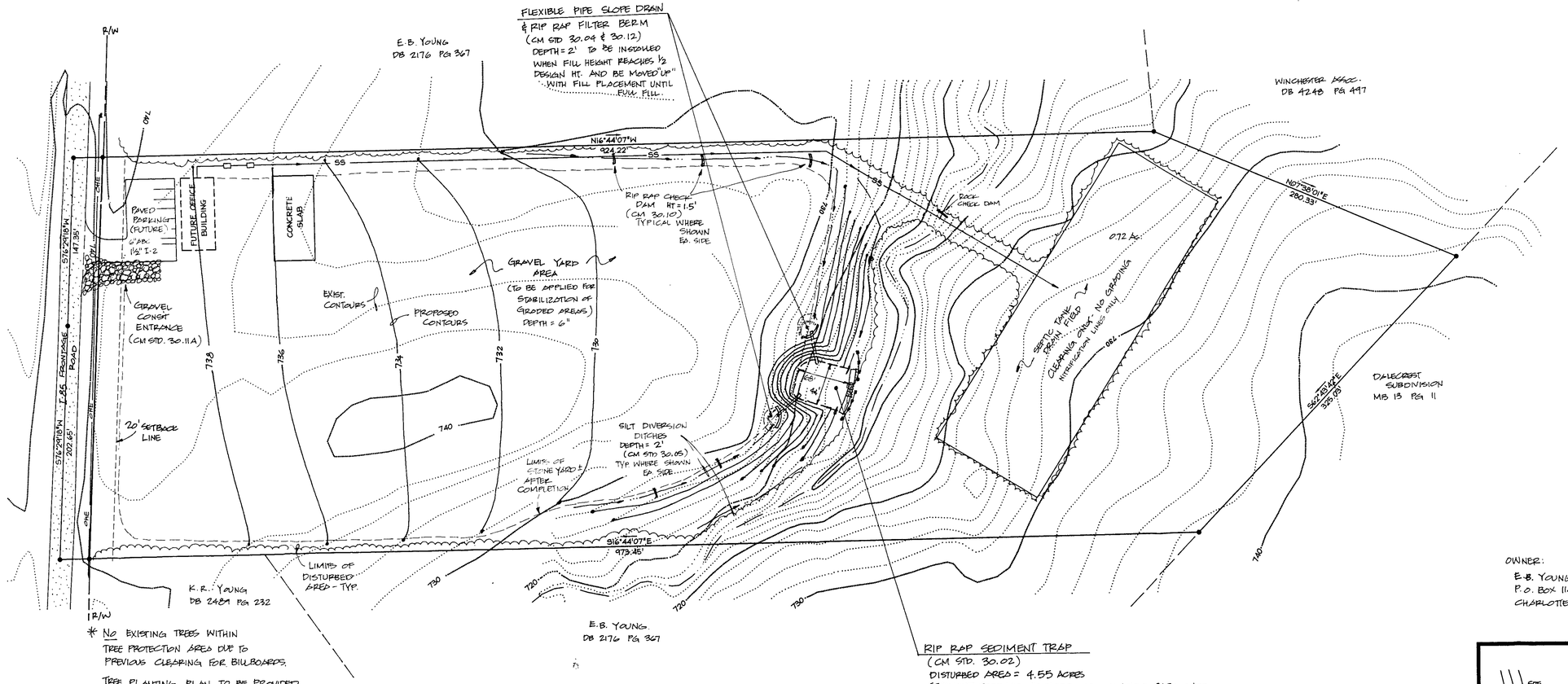
1. SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
2. AREAS TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP.
3. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION, AT FINISH GRADES SHOWN, SHALL BE REASONABLY SMOOTH AND UNIFORM.
4. IF NO SOIL TEST IS TAKEN, FERTILIZER AND LIME TO BE ACCORDING TO SEEDING SPECIFICATIONS ABOVE. IN ADDITION, PROVIDE 15 LBS./1000 S.F. OF SUPER-PHOSPHATE.
5. IF NO SOIL TEST IS TAKEN, PROVIDE FERTILIZER AND LIME ACCORDING TO SOIL TEST REPORT.
6. FERTILIZER AND LIME SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
7. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.
8. MULCH TO BE TACKED OR MECHANICALLY TIED DOWN WITHIN TWO DAYS AFTER MULCH IS SPREAD.
9. BUFFER ZONES TO BE USED ONLY AS SPECIFICALLY DENOTED ON PLANS.
10. BORROW AND FILL TO BE BALANCED ON SITE.

CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT FROM THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT.
2. SET UP PRE-CONSTRUCTION CONFERENCE ON-SITE WITH THE EROSION CONTROL INSPECTOR (TELEPHONE #336-2241) TO DISCUSS EROSION CONTROL MEASURES.
3. INSTALL GRAVEL CONSTRUCTION ENTRANCES AND SILT FENCE; CLEAR ONLY AS NECESSARY AND CONSTRUCT THE ROCK DAM AND SILT DIVERSION DITCHES.
4. CALL 336-2241 FOR AN ON-SITE INSPECTION BY EROSION CONTROL INSPECTOR. WHEN APPROVED, BEGIN CLEARING AND GRUBBING OF THE SITE.
5. MAINTAIN EROSION CONTROL DEVICES AS NEEDED.
6. STABILIZE THE SITE AS AREAS ARE BROUGHT TO FINAL GRADE.
7. UPON STABILIZATION OF SITE AND INSPECTION BY CITY OF CHARLOTTE, REMOVE AND STABILIZE ROCK DAM AREA. SEED AND MULCH ANY REMAINING DISTURBED AREAS.
8. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, US DEPT. OF AGRICULTURE, US SOIL CONSERVATION SERVICE, CITY OF CHARLOTTE EROSION CONTROL ORDINANCE AND THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT.
9. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TI MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE CITY EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.

GENERAL NOTES:

1. ALL "STD" NUMBERS REFER TO THE CHARLOTTE/MECKLENBURG LAND DEVELOPMENT STANDARDS MANUAL.
2. ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR.
3. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN IS A VOILATION OF THE CITY EROSION CONTROL ORDINANCE AND IS SUBJECT TO AN IMMEDIATE FINE, PLUS ADDITIONAL FINES UP TO $500 PER DAY.
4. GRADING MORE THEN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
5. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHEIVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN. ALL GRADED SLOPES MUST BE SEEDED AND MULCHED WITHIN 30 DAYS OF COMPLETION OF GRADING. ALL REMIANING AREAS ARE TO BE SEEDED AND MULCHED WITHIN 120 DAYS.
6. FAILURE TO SCHEDULE AN ON-SITE MEETING WITH THE CITY'S EROSION CONTROL COORDINATIR 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION OF THE CITY'S EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
7. ADDITIONAL MEASURES TO CONTROL EROSION MAY BE REQUIRED BY A REPRESENTATIVE OF THE CHARLOTTE ENGINEERING DEPARTMENT.
8. SITE AREA: 8.31 Ac.
   DISTURBED AREA: 4.55 Ac. (GRADED) + 0.72 Ac. ± (SEPTIC DRAIN FIELD-CLEARED)
   SOIL TYPE: CeB2



* No EXISTING TREES WITHIN TREE PROTECTION AREA DUE TO PREVIOUS CLEARING FOR BILLBOARDS.

TREE PLANTING PLAN TO BE PROVIDED AT TIME OF BUILDING PERMIT SUBMITAL (FUTURE)

GRAPHIC SCALE

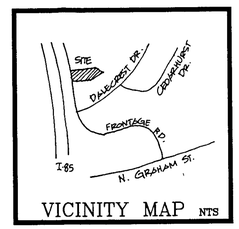
50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

RIP RAP SEDIMENT TRAP

(CM STD. 30.02)
DISTURBED AREA = 4.55 ACRES
SEDIMENT STORAGE REQUIRED = 1800 X 4.55 = 8190 CU.FT.
SEDIMENT STORAGE PROVIDED = 8640 CU. FT.
BASIN DIMENSIONS:
TOP = 44' X 68' DEPTH = 4' WEIR = 10'X1'
BOTT = 28' X 52'
Q_{10} WEIR = (0.4)(7.08"/HR)(4.55 AC) = 12.8 CFS
Q_{10} WEIR W/10' WEIR = $CLH^{3/2}$ = (3.0)(10)(1) = 30 CFS > 12.8

\# NOTE: FILL AND STABILIZE SEDIMENT BASIN ONLY AFTER THE MAIN PORTION OF GRADED AREA/SITE HAS BEEN STABILIZED WITH STONE OR OTHER STABILIZATION MEASURES.



VICINITY MAP NTS

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E.B. YOUNG
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CHARLOTTE, NC 28209

Civiltek Associates
Engineering Planning Surveying
1318 E8 Central Ave. (704) 344-1966
Charlotte, NC 28205

Grading and Erosion Control Plan for
3925 NORTH I-85 SERVICE ROAD
City of Charlotte
Mecklenburg County, North Carolina

Revisions:
ISSUED FOR APPROVALS 8-20-97

NORTH CAROLINA PROFESSIONAL SEAL 12576 ENGINEER FREDERICK I. GOBLE

Drawn by:	D.E.S.
Approved by:	F.I.G.
Date:	8/1/97
Job name:	YOUNG

Scale: 1"=50' (H) (V)

Sheet No. 1 of 1