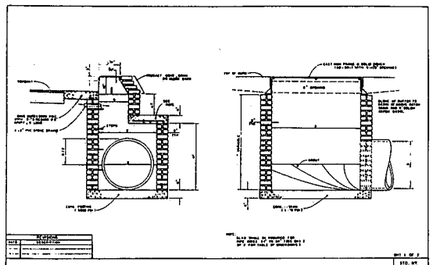
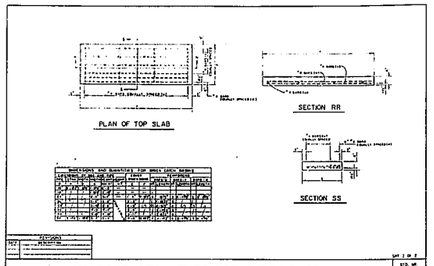
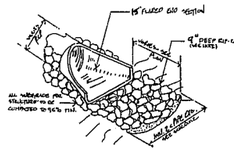


STANDARD OPEN-THROATED CATCH BASIN — STD. NO. 8.03



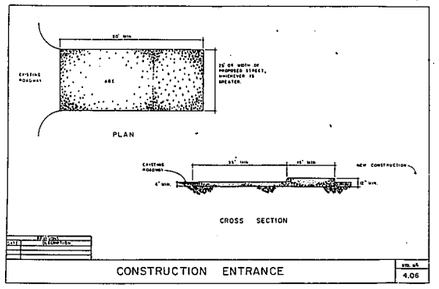
STANDARD OPEN-THROATED CATCH BASIN — STD. NO. 8.03



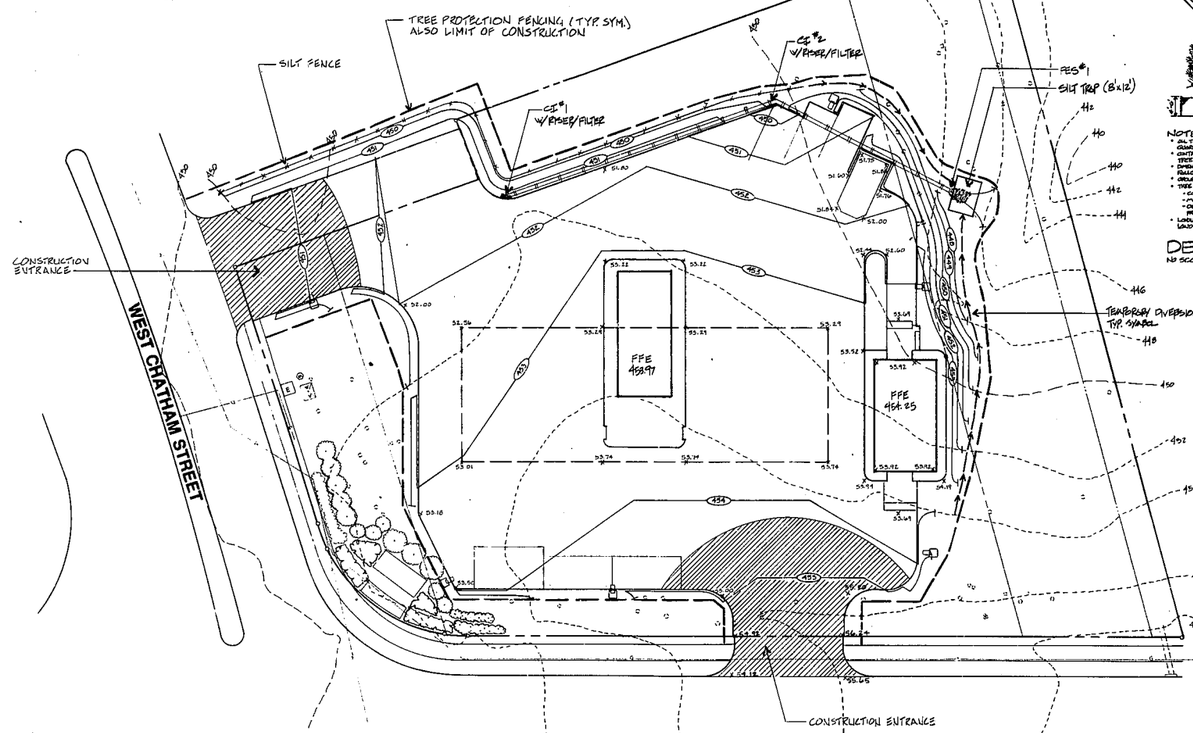
FLARED END SECTION
NO SCALE

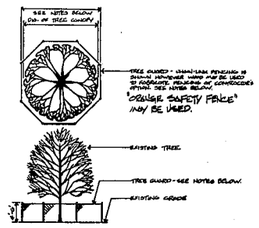
BP / APEX AND CHATHAM												
STORM DRAINAGE DEVICE				PIPE OUT or APRON					ELEVATIONS			
"Rational" 10 Year Storm				LENGTH		PIPE	MAX.					
TYPE & NO.		Q	Q	or APRON		DIAMETER	VEL.	HW	NO.	RIM or CI TOP	INVERT IN	INV. OUT	REMARKS
From	To	in	Total	(L x W x D)	SLOPE	AND TYPE	F.P.S.	FL.					
CI 1	CI 2	1.9	1.9	92 Ft.	1.0%	12" R.C.P.	5.0	3.1	CI 1	451.64		448.00	
CI 2	FES 1	2.1	4.0	60 Ft.	1.0%	15" R.C.P.	5.8		CI 2	449.68	447.08	447.00	
FES 1			4.0	6' x 4' x 9"		15" FES	5.8		FES 1			448.40	3" dia. stone

NOTE: CI (Curb Inlet Top) ELEVATIONS are identical to elevations of adjacent top of curbs.



CONSTRUCTION ENTRANCE — STD. NO. 4.06





NOTES:
- ALL TREES TO BE SAVED IN AREAS TO BE GRADED SHALL RECEIVE TREE GUARDS OR DETAILED ABOVE (SPECIFIC TYPE TO BE USED).
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF TREE GUARDS (with, completion of site work).
- DIMENSIONS OF TREE GUARD SHALL BE SUCH THAT "DRIP-LINE" (CANOPY) FALLS WITHIN THE PERIMETER OF FENCING.
- GROUPINGS OF TREES TO BE SAVED MAY BE FENCED AS A UNIT.
- TREE GUARDS ARE TO PREVENT:
  - COMPACTION OF SOIL OVER FENCED ROOT BY HEAVY EQUIPMENT.
  - MECHANICAL DAMAGE TO TREES AND LIMBS BY EQUIPMENT.
  - OIL AND OTHER CHEMICAL SPILLS OVER ROOT SYSTEM WHICH WOULD HAVE HARMFUL TO TREE SURVIVAL.
- LOCATE OF TREE GUARDS SHALL BE SUBJECT TO THE APPROVAL OF LANDSCAPE ARCHITECT BEFORE BEGINNING SITE WORK.

DETAIL " " TREE GUARD AROUND EXISTING TREES
NO SCALE

Seeding mixture	
Species[1]	Rate (lb/acre)
Tall fescue	100
Sericea lespedeza	30
Kobe lespedeza	10

Seeding notes
1. In Eastern Piedmont add 25 lb/acre Pensacola Bahagrass or 10 lb/acre common Bermudagrass. Use common Bermudagrass only where it is unlikely to become a pest.
2. After Aug. 15 use unscarified sericea seed.
3. When a legume accompanies a grass, direct, omit sericea and substitute 40 lb/acre Kobe grass or 15 lb/acre Bermudagrass.
4. To extend planting seeding dates into June, add 15 lb/acre hulled Bermudagrass. However, it is preferable to seed temporary cover and seed fescue in Sept.

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

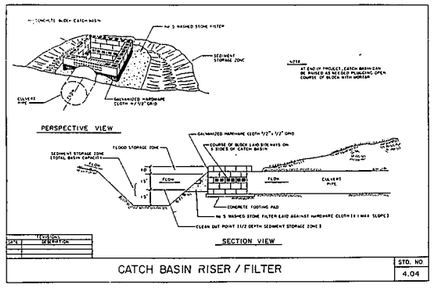
Fall is best for tall fescue and late winter for lespedezas. Overseeding of Kobe lespedeza over fall-seeded tall fescue is very effective. Use unhulled Bermudagrass seed in fall.

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.

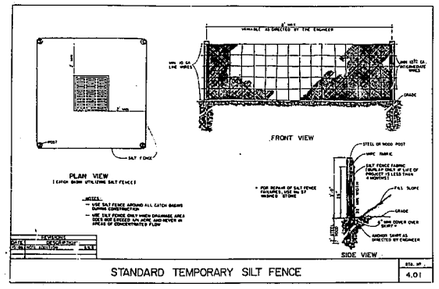
Mulch
Apply 4,000-5,000 lb/acre grain straw, or equivalent cover of another suitable mulching material. Anchor mulch by tacking with asphalt, roving, or netting. Netting is the preferred anchoring methodwhen steep slopes.

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.

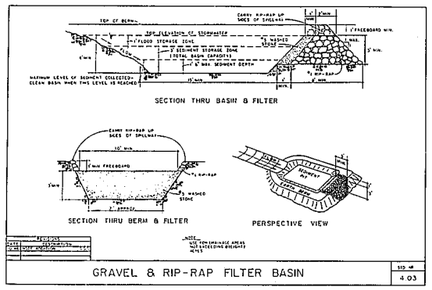
[1]Refer to Appendix 8.02 for botanical names.



CATCH BASIN RISER / FILTER — STD. NO. 4.04



STANDARD TEMPORARY SILT FENCE — STD. NO. 4.01



GRAVEL & RIP-RAP FILTER BASIN — STD. NO. 4.03

NOTES

DISTURBED AREA = 31,156 SQ. FT.

TOPOGRAPHIC DATA TAKEN FROM SURVEY BY JOHN R. McADAMS COMPANY, INC. DATED: FEBURARY 1989

THE WAKE COUNTY SOILS SURVEY (1970) SHOWS THIS SITE TO BE COMPOSED OF GEORGEVILLE SILTY LOAM WITH A SMALL AMOUNT OF MANTACHIE SOIL IN THE DRAW TO THE NORTH, PROBABLY OFF-SITE.

CONSTRUCTION SEQUENCE

1) Obtain Town of Cary Grading Permit.
2) Flag proposed clearing limits. Call Town Construction Management Office and alert inspectors that construction is about to begin.
3) Install (2) Construction Entrances.
4) Install Silt Fence, Diversions and Silt Trap as shown on plan.
5) Install Tree Protection Fence as shown on plan.
6) Clear and grub site.
7) Install storm drainage structures, piping and associated erosion control protection at curb inlets 1 and 2.
8) Proceed with general site construction, through placement of curb and gutter and concrete dumpster pad.
9) Remove curb inlet protection immediately prior to placement of ABC and paving of vehicular surface area.
10) At completion of construction, seed all nonpaved disturbed areas or implement landscape plan.
11) After turf establishment, remove Tree Protection Fence, Silt Fence, Diversions and Silt Trap. Place stone from Trap at outfall of FES; dimensions shown on plan.

MAINTENANCE

1) Inspection and maintenance of erosion control devices shall take place monthly, and after each rainfall event. At such times, all damages shall be repaired immediately. Accumulated sediments and debris shall be removed, and any necessary stone replacement shall be made at this time. Structures shall be reshaped as necessary to maintain proposed function.
2) Watering of seeded areas to promote germination and establishment of grass cover shall be the responsibility of the Owner.

PFI BOYLE | 1600 RALEIGH, NORTH CAROLINA 27602 | (919) 821-7646

FACILITY AT
OLD APEX & WEST CHATHAM
CARY, NORTH CAROLINA

B.P. OIL COMPANY

Grading/ Sediment & Erosion Control

North

Scale: 1" = 20'
0 10 20 40 80

Date
1 FEBRUARY 1990
15 MARCH 1990 (1ST REVIEW)
6 APRIL 1990 (2ND REVIEW)

Sheet: **LA-2**

Job Number: 3600.05