

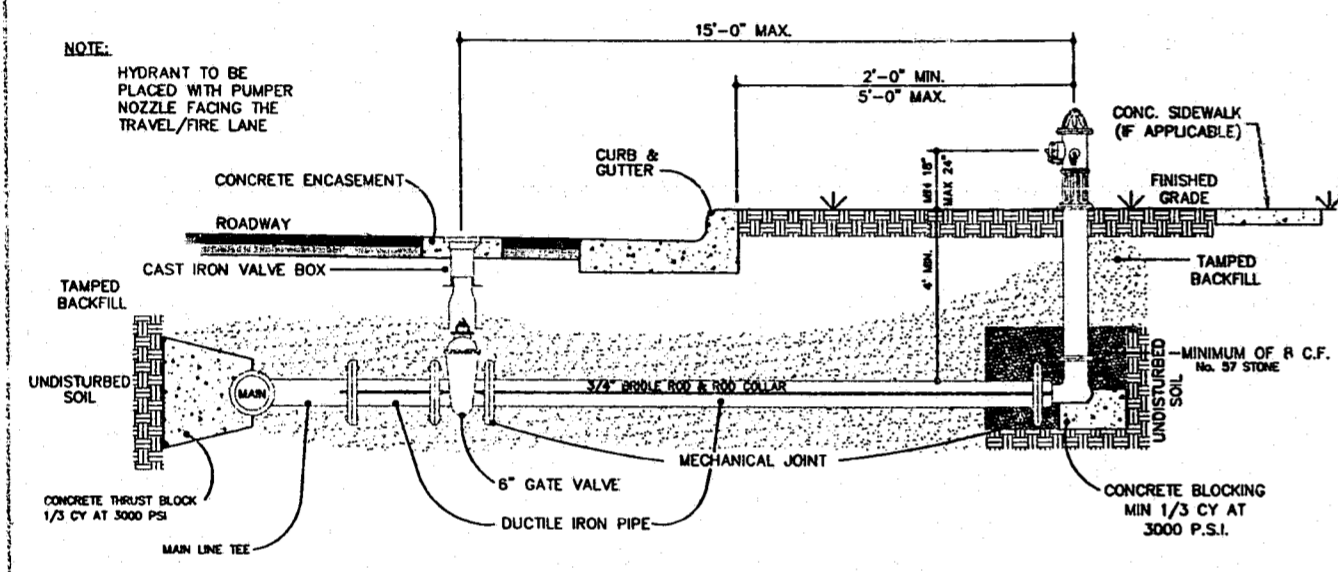
SPECIAL BEDDING FOR 14-20' DEPTHS

STANDARD BEDDING FOR 3' TO 14' DEPTHS

NOTES:
 EMBEDMENT MATERIAL MUST BE CLASS 1 (NO. 57 OR NO. 78M WASHED STONE IS TYPICALLY USED)
 EMBEDMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY FOR CLASS 1 MATERIAL.
 REFERENCE SECTION 7.01C FOR EMBEDMENT MATERIAL SPECIFICATIONS.
 ALL SANITARY SEWER LINES LESS THAN 3 FEET AND OVER 20 FEET IN DEPTH MUST BE D.I.P.

REVISIONS	
DATE	DESCRIPTION
6/29	ADDITION TO NOTES

BEDDING FOR FLEXIBLE & SEMI-RIGID SANITARY SEWER PIPE STD. No. 7.13

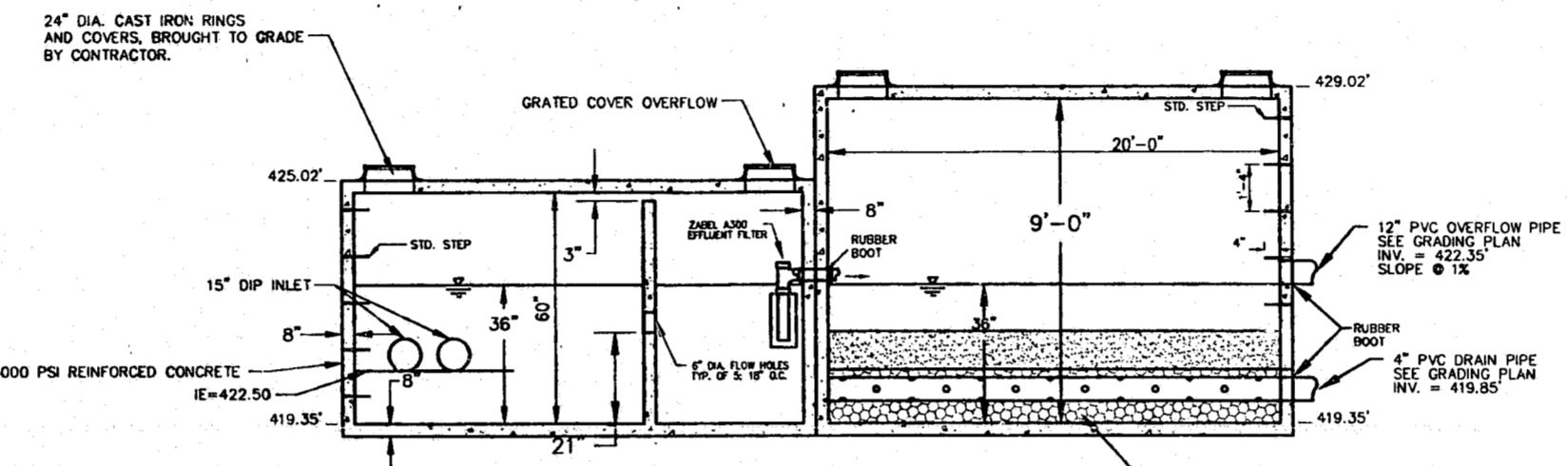
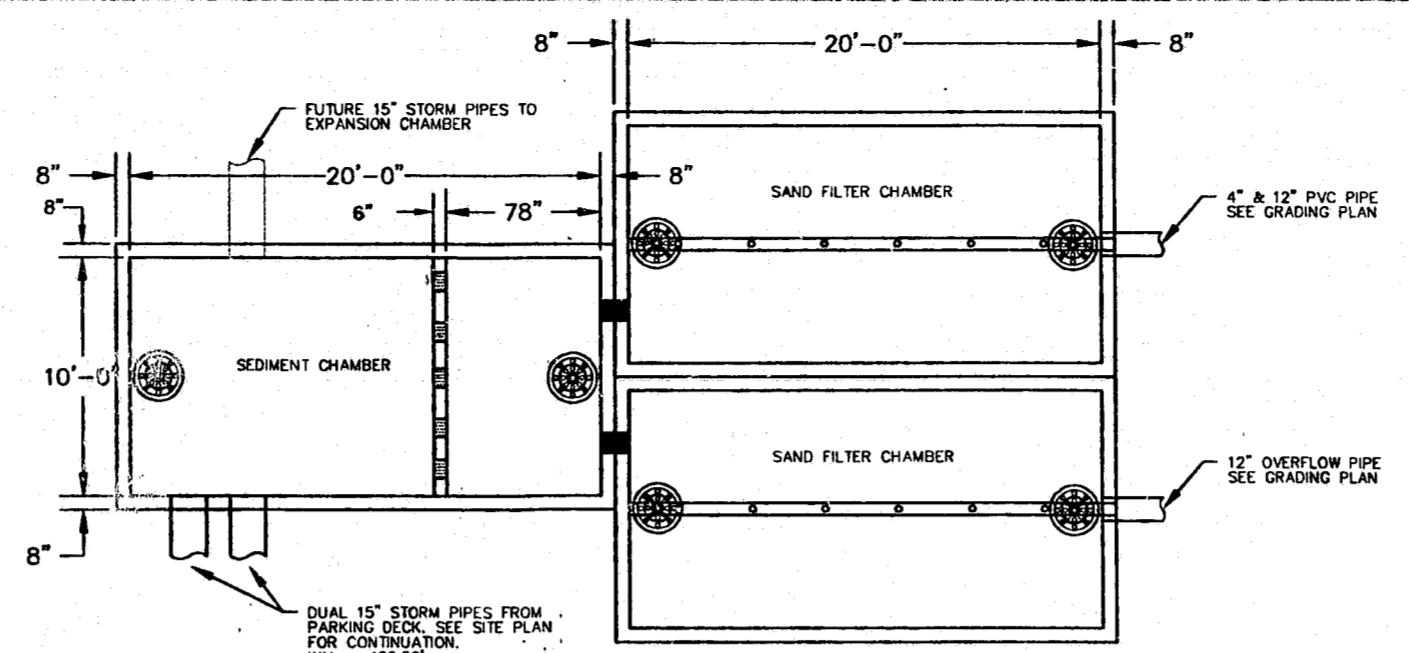


NOTE:
 HYDRANT TO BE PLACED WITH PUMPER NOZZLE FACING THE TRAVEL/FIRE LANE.

NOTES:
 1. TOP OF BLOCKING TO BE 2" FROM HYDRANT WEEP HOLES.
 2. HYDRANT TEE MAY BE SUBSTITUTED FOR D.I.P. NIPPLE AND RODDING TO VALVE.
 3. TAPPING SADDLES MAY BE USED INSTEAD OF A TEE FOR WATER LINES LARGER THAN 16 INCHES.

REVISIONS	
DATE	DESCRIPTION
12/09	LABELLED TEE, S.O.U.
6/30	NOTE ADDITION
6/30	ADDITION TO NOTES

STANDARD HYDRANT INSTALLATION STD. No. 6.06



NOTES:
 1. SEDIMENT CHAMBER SHALL BE RATED FOR 6,000 GALLON CAPACITY.
 2. SAND FILTER CHAMBER SHALL BE 12,000 GALLON CAPACITY TANK.
 3. TANKS SHALL BE MANUFACTURED BY STAYRIGHT. ALTERNATES MUST BE APPROVED BY THE ENGINEER.
 4. PROVIDE PVC FITTINGS AS NECESSARY TO REACH STRUCTURE #5. SEE SHEET C3.1.

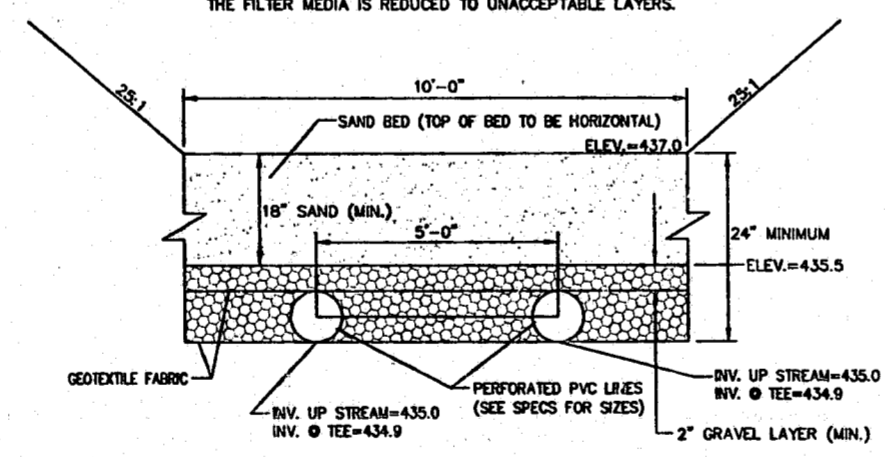
1 SAND FILTER NO. 1 TANKS AND DETAILS NOT TO SCALE

SAND FILTER OPERATION AND MAINTENANCE

- A STORM WATER MAINTENANCE COVENANT SHALL BE REQUIRED FOR THIS FACILITY. THE MAINTENANCE COVENANT SHALL REQUIRE THE OWNER OF THE SAND FILTER TO PERIODICALLY CLEAN THE STRUCTURE.
- SCRAPE OFF SEDIMENT LAYER BUILDUP DURING DRY PERIODS WITH STEEL RAKES OR OTHER DEVICES.
- REPLACE SOME OR ALL OF THE SAND WHEN PERMEABILITY OF THE FILTER MEDIA IS REDUCED TO UNACCEPTABLE LEVELS.

SAND FILTER SPECIFICATIONS

- INLET CHANNEL SHALL BE CONSTRUCTED TO SPREAD THE FLOW UNIFORMLY ACROSS THE SURFACE OF THE FILTER MEDIA.
- STONE RIPRAP OR OTHER DISSIPATION DEVICES SHALL BE INSTALLED TO PREVENT GOUGING OF THE SAND MEDIA AND TO PROMOTE UNIFORM FLOW.
- UNDERDRAIN PIPES SHALL CONSIST OF MAIN COLLECTOR PIPES AND PERFORATED LATERAL BRANCH PIPES.
- THE UNDERDRAIN PIPING SHALL BE REINFORCED TO WITHSTAND THE WEIGHT OF THE OVERBURDEN.
- INTERNAL DIAMETERS OF LATERAL BRANCH PIPES SHALL BE 4 INCHES OR GREATER AND PERFORATIONS SHALL BE 3/8 INCH.
- MAXIMUM SPACING BETWEEN ROWS OF PERFORATIONS SHALL NOT EXCEED 6 INCHES.
- ALL PIPING SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE OR GREATER STRENGTH.
- MINIMUM GRADE OF PIPING SHALL BE 1/8 INCH PER FOOT (1% SLOPE).
- ACCESS FOR CLEANING ALL UNDERDRAIN PIPING SHALL BE PROVIDED.
- TOP LAYER OF SAND SHALL BE A MINIMUM OF 12 INCHES OF 0.02-0.04 INCH DIAMETER SAND (SMALLER SAND SIZE IS ACCEPTABLE).
- A LAYER OF ONE-HALF TO 2-INCH DIAMETER GRAVEL UNDER THE SAND SHALL BE PROVIDED FOR A MINIMUM OF 2 INCHES OF COVER OVER THE TOP OF THE UNDERDRAIN LATERAL PIPES.
- NO GRAVEL IS REQUIRED UNDER THE LATERAL PIPES.
- THE SAND AND GRAVEL SHALL BE SEPARATED BY A LAYER OF GEOTEXTILE FABRIC.
- A MAXIMUM SPACING OF 10 FEET BETWEEN LATERAL UNDERDRAIN PIPES IS REQUIRED.



3 SAND BED PROFILE (WITH GRAVEL LAYER) NOT TO SCALE

TEMPORARY SEEDING SCHEDULE

SUMMER	
SEEDING MIXTURE SPECIES	RATE (LB./ACRE)
German Millet	40

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb./acre.

SEEDING DATES:
 Mountains - May 15-Aug. 15
 Piedmont - May 1-Aug. 15
 Coastal Plain - Apr. 15-Aug. 15

SOIL AMENDMENTS:
 Follow recommendations of soil tests or apply 2,000 lb./acre ground agricultural limestone and 750 lb./acre 10-10-10 fertilizer.

MULCH:
 Apply 4,000 lb./acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

MAINTENANCE:
 Referitize if growth is not fully adequate. Reseed, referitize and mulch immediately following erosion or other damage.

LATE WINTER AND EARLY SPRING	
SEEDING MIXTURE SPECIES	RATE (LB./ACRE)
Rye (corn)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

SEEDING DATES:
 Mountains - Above 2500 ft. Feb. 15-May 15
 Below 2500 ft. Feb. 1-May 1
 Piedmont - Jan. 1-May 15
 Coastal Plain - Dec. 1-Apr. 15

SOIL AMENDMENTS:
 Follow recommendations of soil tests or apply 2,000 lb./acre ground agricultural limestone and 750 lb./acre 10-10-10 fertilizer.

MULCH:
 Apply 4,000 lb./acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

MAINTENANCE:
 Referitize if growth is not fully adequate. Reseed, referitize and mulch immediately following erosion or other damage.

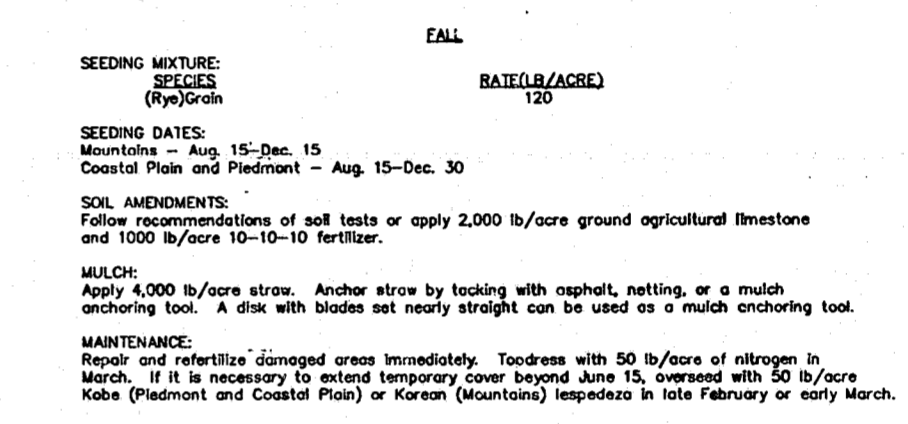
FALL	
SEEDING MIXTURE SPECIES	RATE (LB./ACRE)
Rye (Grain)	120

SEEDING DATES:
 Mountains - Aug. 15-Dec. 15
 Coastal Plain and Piedmont - Aug. 15-Dec. 30

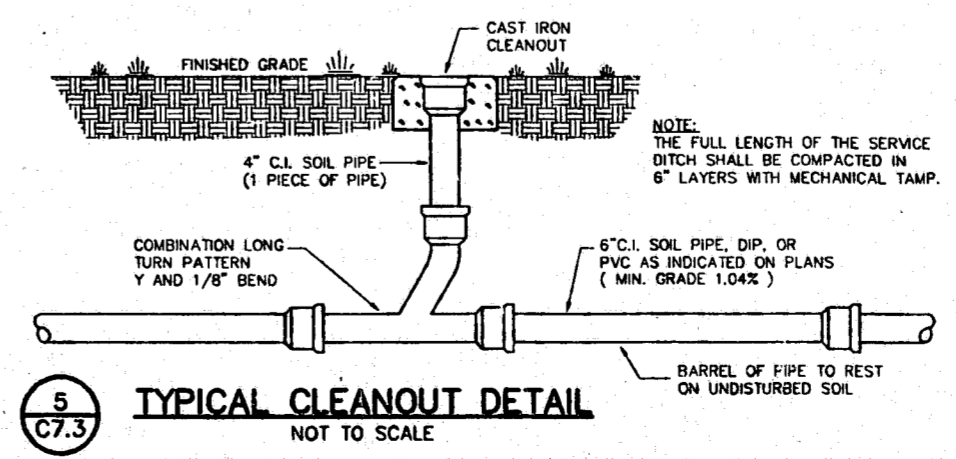
SOIL AMENDMENTS:
 Follow recommendations of soil tests or apply 2,000 lb./acre ground agricultural limestone and 1000 lb./acre 10-10-10 fertilizer.

MULCH:
 Apply 4,000 lb./acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

MAINTENANCE:
 Repair and referitize damaged areas immediately. Topdress with 50 lb./acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb./acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.



4 OUTLET PROTECTION DETAIL NOT TO SCALE

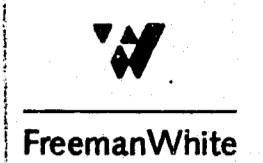


5 TYPICAL CLEANOUT DETAIL NOT TO SCALE

DSAtlantic

150 OAK PLAZA BOULEVARD • SUITE 200 • WINSTON-SALEM, NC 27105
 336-758-7400 • FAX 336-758-7900

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FreemanWhite

Western Wake Medical Center

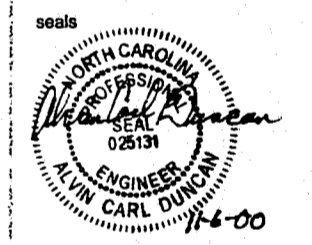
Parking Garage

Cary, NC

CIVIL/SITE DETAILS

project number
 1541941

date
 8 NOV 2000



FINAL DESIGN
 NOT RELEASED FOR CONSTRUCTION

drawn by
 JMN

checked by
 ACD

revisions

cpr number

date

includes sheets

sheet number

C7.3