

MANHOLE STEPS @ 12" OC

3'-0"

<u>PLAN</u>

(TYP)

DROP INLET (DI)

<u>DETAIL</u>

SECTION

FOR PIPES OVER 24" I.D.

OF DI = O.D. OF PIPE +

MAKE LENGTH & WIDTH

6" EACH SIDE.

NOTES:

- REFERENCE IS MADE TO THE FOLLOWING:
- BOUNDARY, TOPOGRAPHIC, & UTILITY SURVEYS PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA BY BP BARBER & ASSOCIATES, DATED MAY 16, 2007 THROUGH OCTOBER 4,
- B. CONSTRUCTION PLANS FOR THE USC ATHLETIC VILLAGE INFRASTRUCTURE DEVELOPMENT CONSTRUCTION PROJECT PREPARED BY BP BARBER & ASSOCIATES, DATED JANUARY 20, 2010, WITH REVISIONS (BP BARBER PROJECT NUMBER 07578).
- CONSTRUCTION PLANS FOR THE USC SOFTBALL STADIUM CONSTRUCTION PROJECT PREPARED BY URS CORPORATION, DATED MARCH 16, 2012, WITH REVISIONS (URS PROJECT NUMBER 46422193).
- CONSTRUCTION PLANS FOR THE USC ATHLETIC VILLAGE SAND VOLLEYBALL COURT CONSTRUCTION PROJECT PREPARED BY URS CORPORATION, DATED MAY 30, 2013, WITH
- REVISIONS (URS PROJECT NUMBER 46422848). 2. ALL ELEVATIONS SHOWN ARE BASED ON:
 - HORIZONTAL: SOUTH CAROLINA STATE PLANE COORDINATE NAD 83
- VERIFY ALL FIELD CONDITIONS AND THE EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING DEMOLITION AND CONSTRUCTION. IF CONDITIONS ARE DIFFERENT FROM THAT SHOWN ON THE PLANS, STOP WORK AND NOTIFY THE ENGINEER
- ALL WORK FOR THE PROJECT SHALL CONFORM TO THE PROJECT SPECIFICATIONS FOUND IN THE PROJECT MANUAL (CONTRACT DOCUMENTS AND SPECIFICATIONS).
- PROMPTLY INFORM THE ENGINEER OF ANY DISCREPANCY DISCOVERED IN THESE DRAWINGS OR SPECIFICATIONS OR CONFLICT BETWEEN THE DRAWINGS OR SPECIFICATIONS.
- THESE CIVIL/SITE PLANS ARE PART OF THE OVERALL PROJECT PLAN SET. REVIEW PLANS OF ALL TRADES FOR CONSTRUCTION COORDINATION AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- BURNING OF ANY MATERIAL, DEBRIS, OR TRASH ON SITE WILL NOT BE PERMITTED.
- WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AND SPECIFICATIONS, LATEST REVISION. IN ADDITION TO INFORMATION OBTAINED FROM SITE VISITS AND A FIELD SURVEY, THE EXISTING UNDERGROUND UTILITIES SHOWN HEREIN ARE BASED ON A COMBINATION OF AVAILABLE SOURCE INFORMATION PROVIDED BY OTHERS, INCLUDING AS-BUILT DRAWINGS AND EXISTING UTILITIES RECORDS AND/OR MAPS. A CONCERTED EFFORT TO LOCATE ALL EXISTING UTILITIES WAS MADE, HOWEVER, LOCATION OF UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED AND ANY AND ALL DAMAGES RESULTING FROM THE FAILURE TO DO SO SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER. CONTACT PALMETTO UTILITY PROTECTION SERVICE (PUPS) AND OTHER LOCAL AND REGIONAL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION FOR LOCATION OF UTILITIES.

10. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION.

- 11. PROTECT FROM DAMAGE EXISTING STRUCTURES, UTILITIES, ETC. THAT ARE TO REMAIN OR TO BE SALVAGED. REPAIR ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, ETC. TO ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
- 12. CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND BE PREPARED TO ADEQUATELY CARE FOR AND SAFEGUARD HIMSELF AND THE OWNER FROM DAMAGE.
- 13. KEEP ALL ROADS ADJACENT TO THE SITE CLEAN DURING CONSTRUCTION.
- 14. CONTRACTOR SHALL, FOR ALL GRASSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED. 15. ALL WORK AND MATERIALS MUST CONFIRM WITH CITY OF COLUMBIA AND SCDHEC REGULATIONS
- AND SPECIFICATIONS, LATEST REVISIONS AT THE BEGINNING OF CONSTRUCTION. 16. ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED AT NO
- ADDITIONAL EXPENSE TO THE OWNER. 17. INSTALL PERMANENT VEGETATIVE COVER AND THE LONG-TERM EROSION PROTECTION MEASURES
- OR STRUCTURES AS SOON AS PRACTICAL IN THE DEVELOPMENT PROCESS. 18. ALL WORK AND MATERIALS MUST CONFIRM WITH CITY OF COLUMBIA AND SCDHEC REGULATIONS
- AND SPECIFICATIONS, LATEST REVISIONS AT THE BEGINNING OF CONSTRUCTION. 19. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES AS MAY BE REQUIRED TO CONTROL
- SOIL EROSION DURING OFF SITE UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY
- 20. ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 21. INSTALL PERMANENT VEGETATIVE COVER AND THE LONG-TERM EROSION PROTECTION MEASURES OR STRUCTURES AS SOON AS PRACTICAL IN THE DEVELOPMENT PROCESS. 22. 13. PROVIDE FOR HANDLING OF THE INCREASED RUNOFF CAUSED BY CHANGED SOIL AND
- SURFACE CONDITIONS. USE EFFECTIVE MEANS TO CONSERVE EXISTING ON-SITE SOIL INCLUDING THE USE OF DIVERSION DITCHES, GRASSED WATERWAYS AND STORM SEWERS. 23. ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION TO CONTROL
- EROSION AND/OR OFF SITE SEDIMENTATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STABILITY OF ALL GRADED AND/OR CLEARED AREAS UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ANY AREAS DAMAGED BY EROSION SHALL BE REPAIRED TO ITS ORIGINAL CONDITION AND PROTECTED FROM FURTHER EROSION AT NO ADDITIONAL COST TO THE OWNER. 24. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF

FILTER OPTIONS
FILTER HAT IS AVAILABLE IN THREE OPTIONS:

COMES IN ONE PIECE FOR EASY INSTALLATION.

REPLACE OR REPOSITION AS NECESSARY.

PROFESSIONAL'S SPECIFICATIONS.

3) HIGH-FLOW MATERIAL ON TOP HALF OF HAT, HIGH-EFFICIENCY

MATERIAL ON BOTTOM HALF (THIS FILTER COVER IS RECOMMENDED

IT IS THE PURCHASERS RESPONSIBILITY TO PURCHASE APPROPRIATE

FILTER HAT. PURCHASER SHALL PROVIDE ROCK FOR FILTER POCKETS.

FILTER HAT SLIDES DIRECTLY OVER FILTER FRAME. TO KEEP FILTER

ALL TEMPORARY EROSION. SEDIMENTATION. & POLLUTION CONTROL

REMOVE SEDIMENT AND DISPOSE OF IN A PROPER MANNER. INSPEC

FRAME & FILTER DISCHARGE ANALYSIS HEAD (FT) EQUATION OPENING FRAME FILTER FILTERED

USED AREA (SF) FLOW (CFS) AREA (SF) FLOW (CFS)

₩ HEAD - 3.0'

S-200A DAILY FOR CUTS, ABRASIONS, AND PROPER INSTALLATION.

PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL

SPECIFICATIONS
FILTER FABRIC SILT-SAVER HAT SHALL BE BASED ON DESIGN

FRAME IN PLACE OVER STORM STRUCTURE, ROCK POCKETS ARE

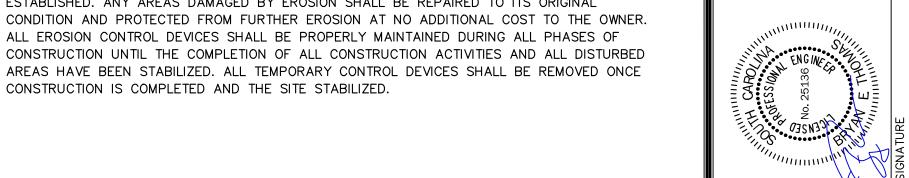
SEWN DIRECTLY INTO FILTER HAT MATERIAL. EVERY FILTER HAT

1) ALL HIGH-FLOW MATERIAL

2) ALL HIGH-EFFICIENCY MATERIAL

FOR ALL ROADWAY PROJECTS.)

CONSTRUCTION IS COMPLETED AND THE SITE STABILIZED.



Colum Telephon

EROSION CONTROL PL

OF

GRASSING NOTES

NOTE:
THESE SCHEDULES ARE FOR TEMPORARY SEEDING ONLY. PROVIDE BERMUDA SODDING AS PERMANENT VEGETATIVE COVER

- GRASSING NOTES

 1. SEED THESE AREAS IMMEDIATELY UPON COMPLETION OF GRADING OR CONSTRUCTION AND CLEAN-UP OPERATIONS.
- A. SLOPES GREATER THAN FOUR HORIZONTAL TO ONE VERTICAL. B. UTILITY RIGHTS-OF-WAY ADJACENT TO STREAM BANKS.
- AREAS READY FOR PLANTING BETWEEN AUGUST 16 AND FEBRUARY 28 SHALL BE PLANTED WITH A TEMPORARY COVER OF SCHEDULE NO. 2. AT THE ACCEPTABLE SEASONS FOR PLANTING SCHEDULE NO. 1, THE TURF SHALL BE DESTROYED BY REWORKING THE SOIL, AND SCHEDULE NO. 1 SEEDING ESTABLISHED AS SPECIFIED HEREIN.
- USE RATE A LBS. PER 1000 SQ. FT. ON SLOPES OVER 5' HORIZONTAL TO 1' VERTICAL IN HEIGHT AND USE RATE B LBS. PER 1000 SQ. FT. ON SLOPES LESS THAN 5' HORIZONTAL TO 1' VERTICAL.
- SEE GRASSING SPECIFICATIONS (SECTION 02930) FOR ADDITIONAL REQUIREMENTS.

GRASSING SCHEDULE NO. 1 - PLANTING DATES MARCH 1 TO AUGUST 15:

COMMON NAME OF SEED	RATE A	RATE B	
RYE GRAIN	1	1	
COMMON BERMUDA (HULLED)	0	1.5	
SERICEA LESPEDEZA (CLAY SOILS)	1	0	
WEEPING LOVE GRASS (SANDY SOILS)	1	0	
CENTIPEDE	0.5	0.5	
FERTILIZER	18-25	18-25	

GRASSING SCHEDULE NO. 2 - PLANTING DATES AUGUST 16 - FEBRUARY 28:

COMMON NAME OF SEED	RATE A	RATE B
RYE GRAIN	0	1
COMMON BERMUDA (HULLED)	0	1.5
BROWN TOP MILLET	5	0
COMMON BERMUDA (UNHULLED)	0	2.0
FERTILIZER	18-25	18-25

COMPACTED #57

CRUSHED STONE

- UNDISTURBED SOIL

TYPE 2- HDPE PIPE

— PIPE BELL

SCALE: NONE

CLASS "B" BEDDING

UNDISTURBED SOIL

TAMPED FINE -

TYPE 1- RCP PIPE

GRANULATED

MOIST SOIL AND SAND

1. 1/4 Bc HAND SHAPED BOTTOM

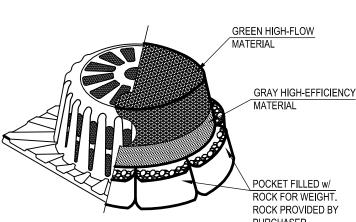
ONLY. APPLICABLE TO BOTH

EARTH AND ROCK TRENCHES

- SHAPE BELL HOLES FOR

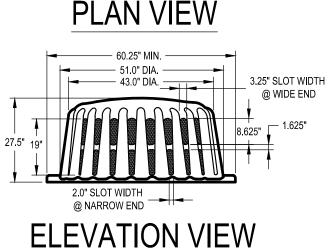
USE IN DRY EARTH TRENCHES

PIPE BELL



ISOMETRIC VIEW

3.5" SLOT LENGTH 3.5" SLOT WIDTH @ WIDE END 1.5" SLOT WIDTH @ NARROW END



SQUARE FRAME & FILTER **ASSEMBLY**

Q = CAPACITY IN cfs A = FREE OPEN AREA OF FRAME g = 32.2 FEET-PER-SECOND/SECOND FRAME MATERIAL: BLACK 0.25" HMWPE SCALE: NOT TO SCALE

DUE TO NARROW SLOT, A TRANSITION WILL OCCUR BETWEEN WEIR

AND ORIFICE CONDITIONS. ORIFICE FLOW WILL PROVIDE A MORE CONSERVATIVE ESTIMATE OF FLOW, THEREFORE THE LESSER OF THE ORIFICE AND WEIR FLOWS WILL BE USED FOR EACH STAGE

FILTER MATERIAL ALLOWS 129 gpm/SF OR 0.29cfs/SF

ORIFICE EQUATION (O) = Q=0.6A(2gh)^0.5

<u> Model # S-200A</u> LAST UPDATED: APRIL 2010 SILT-SAVER, INC. 1094 CULPEPPER DRIVE, CONYERS, GA 30094 PHONE: (770) 388-7818 FAX: (770) 388-7640 TOLL FREE: 1-888-382-SILT (7458) www.siltsaver.com

TEMPORARY INLET PROTECTION



ALL UTILITIES MAY NOT BE A MEMBER OF PUPS, COORDINATE WITH LOCAL UTILITY COMPANIES FOR MARKING OF THEIR UTILITIES ALSO.

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

PROJECT NO. 46423775

FILE NO. 36,531-B91

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)

SHOWN WITH ROADWAY PROJECTS FILTER HA

REPLACEMENT FILTERS: MODEL # S-240

CALCULATION.

P = FEET PERIMETER

h = HEAD IN FEET