

**HEADER CURB DETAIL**

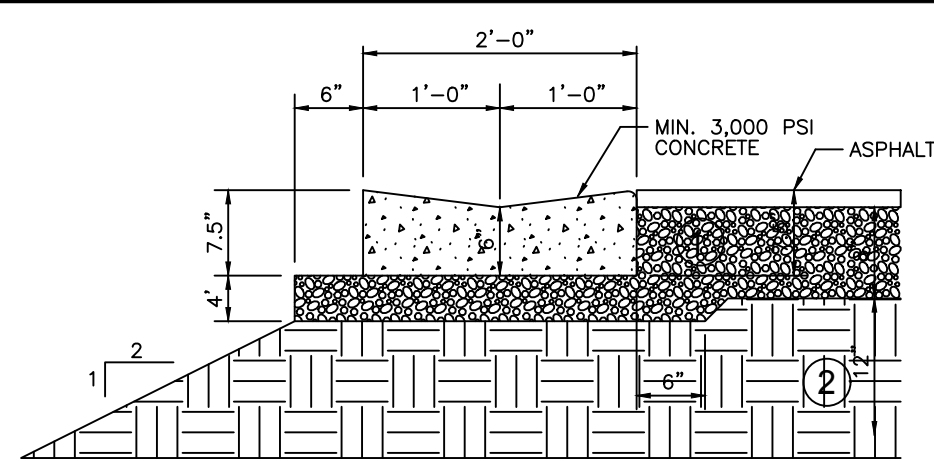
**GENERAL NOTES:**

1. LIMEROCK BASE SHALL BE COMPACTED TO NOT LESS THAN 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH MINIMUM LBR 100 AND MAXIMUM OF 6" LIFTS.
2. SUB GRADE SHALL BE COMPACTED TO NOT LESS THAN 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH MINIMUM LBR 40 AND A MAXIMUM OF 6" LIFTS.

**ADDITIONAL CURBING NOTES:**

1. DENSITY TESTS SHALL BE REQUIRED AT A MINIMUM OF ONE PER 5,000 SQUARE FEET, AND PERFORMED BY AN APPROVED INDEPENDENT LABORATORY AT THE CONTRACTOR'S EXPENSE.
2. CURB SHALL BE POURED MONOLITHICALLY AND CONSTRUCTED IN ACCORDANCE WITH THIS DETAIL.
3. CONTROL JOINTS SHALL BE TOOLED OR CUT EVERY TEN (10) FEET.
4. ALL AREAS BEHIND CURBS SHALL BE BACKFILLED WITHIN 72 HOURS OF PLACEMENT.

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
HEADER CURB DETAIL			
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**VALLEY GUTTER DETAIL**

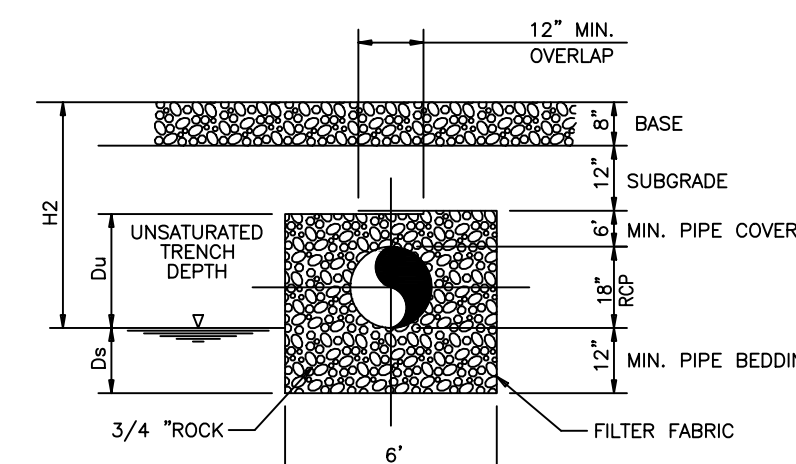
**GENERAL NOTES:**

1. LIMEROCK BASE SHALL BE COMPACTED TO NOT LESS THAN 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH MINIMUM LBR 100 AND MAXIMUM OF 6" LIFTS.
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**ADDITIONAL CURBING NOTES:**

1. DENSITY TESTS SHALL BE REQUIRED AT A MINIMUM OF ONE PER 5,000 SQUARE FEET, AND PERFORMED BY AN APPROVED INDEPENDENT LABORATORY AT THE CONTRACTOR'S EXPENSE.
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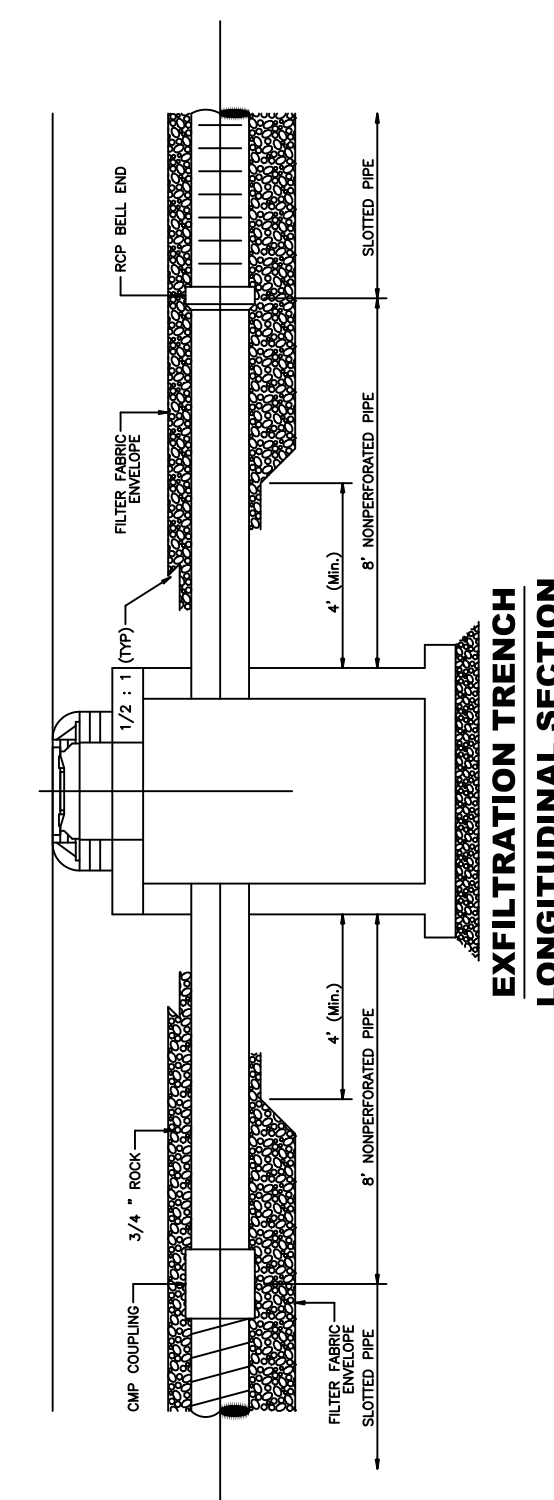
CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
VALLEY GUTTER CURB DETAIL			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F355 Fig: 355



**TYPICAL EXFILTRATION TRENCH**

L= LENGTH OF TRENCH REQUIRED (FEET)  
 V= VOLUME TREATED (ACRE - INCHES)  
 W= TRENCH WIDTH (FEET)  
 K= HYDRAULIC CONDUCTIVITY (CFS/FT<sup>2</sup>- FT. HEAD)  
 H2= DEPTH TO WATER TABLE (FEET)  
 D2= NON-SATURATED TRENCH DEPTH (FEET)  
 D1= SATURATED TRENCH DEPTH (FEET)

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
TYPICAL EXFILTRATION TRENCH			
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**EXFILTRATION TRENCH  
LONGITUDINAL SECTION**

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
EXFILTRATION TRENCH LONGITUDINAL SECTION			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F371 Fig: 371

**NOTES:**

GEOWEB SPECIFICATIONS GW20V - 100 MM (4 IN) DEPTH  
 (BY PRESTO PRODUCTS OR EQUAL)

**BASE MATERIAL:**

POLYMER - POLYETHYLENE WITH DENSITY OF 0.935-0.965 G/CM<sup>3</sup>  
 COLOR - BLACK  
 STABILIZER - CARBON BLACK CONTENT 18-2.0% BY WEIGHT  
 MINIMUM ESCR - 3000 HR

**STRIP PROPERTIES:**

**SURFACE TREATMENT:**

PERFORMANCE - THE POLYETHYLENE STRIPS SHALL BE TEXTURED AND PERFORATED SUCH THAT THE PEAK FRICTION ANGLE BETWEEN THE SURFACE OF THE TEXTURED/PERFORATED PLASTIC AND A # 40 SILICA SAND AT 100% RELATIVE DENSITY SHALL BE NO LESS THAN 85% OF THE PEAK FRICTION ANGLE OF THE SILICA SAND IN ISOLATION WHEN TESTED BY THE DIRECT SHEAR METHOD PER ASTM D 5321. THE QUANTITY OF PERFORATIONS SHALL REMOVE 13.88 ±2.1 % OF THE CELL WALL AREA. MATERIAL - THE POLYETHYLENE STRIPS SHALL BE TEXTURED WITH A MULTITUDE OF RHOMBOIDAL (DIAMOND SHAPE) INDENTATIONS. THE RHOMBOIDAL INDENTATIONS SHALL HAVE A SURFACE DENSITY OF 22-31 PEN SQUARE CENTIMETER (140-200 PER SQUARE INCH). IN ADDITION, THE STRIPS SHALL BE PERFORATED WITH HORIZONTAL ROWS OF 10 MM (0.391 IN.) DIAMETER HOLES. PERFORATIONS WITHIN EACH ROW SHALL BE 19 MM (0.75 IN.) ON-CENTER. HORIZONTAL ROWS SHALL BE STAGGERED AND SEPARATED 12 MM (0.50 IN.) RELATIVE TO THE HOLE CENTERS. OUTER PERFORATION CENTERS SHALL BE 12 MM (0.50 IN.) FROM THE STRIP EDGES AND 25 MM (1.0 IN.) FROM THE CELL WELD POINTS.

**CELL AND SEAM PROPERTIES:**

**CELL DETAILS:**

DEPTH - 100 MM (4 IN.)  
 LENGTH - 224 MM (8.8 IN.)  
 WIDTH - 259 MM (10.2 IN.)  
 DENSITY PER SQUARE METER (SQUARE YARD) - 36.4 (28.9)  
 NOMINAL AREA ± 1 % - 289 SQUARE CENTIMETER (44.8 SQUARE INCHES)  
**SHORT-TERM SEAM TENSILE STRENGTH**  
 CELL DEPTH - 75 MM (3 IN.)  
 MINIMUM CERTIFIED CELL SEAM STRENGTH - 1420 N (320 LBF)

**SEAM TENSILE STRENGTH TEST**

A 100 MM (4 IN.) WIDE SEAM SHALL SUPPORT A 72.5 KG. (160 LB) LOAD FOR 7 DAYS MINIMUM IN A TEMPERATURE-CONTROLLED ENVIRONMENT UNDERGOING A TEMPERATURE CHANGE ON A 1-HOUR CYCLE FROM AMBIENT ROOM TO 54° C (130° F). AMBIENT ROOM TEMPERATURE PER ASTM E 41.

**ALTERNATIVE SEAM TENSILE STRENGTH TEST**

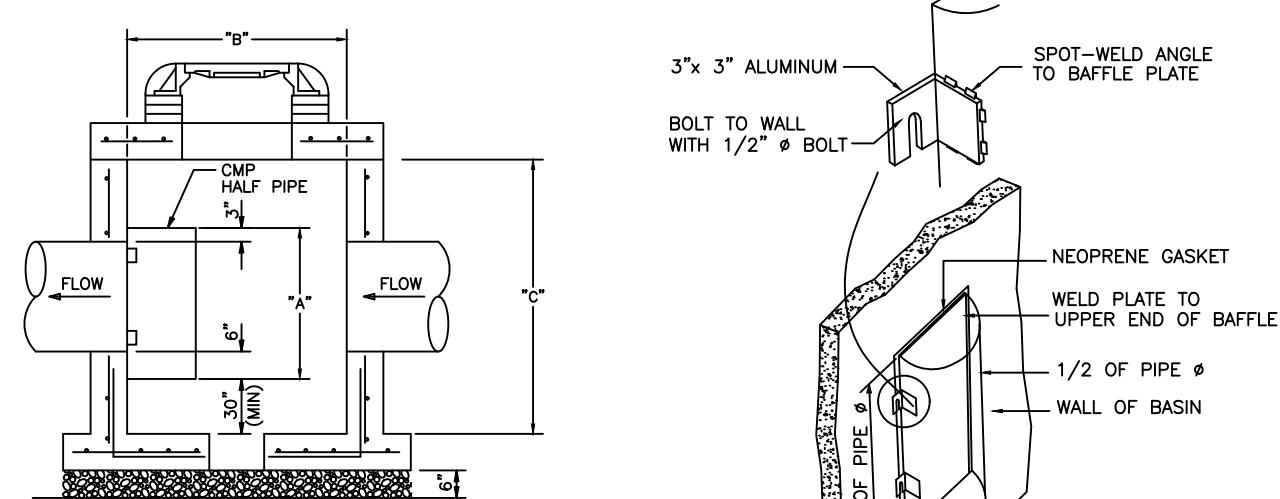
A 100 MM (4 IN.) WIDE SEAM SHALL SUPPORT A 72.5 KG. (160 LB) LOAD FOR 30 DAYS IN AN AMBIENT ROOM TEMPERATURE ENVIRONMENT. AMBIENT ROOM TEMPERATURE PER ASTM E 41.

**SECTION PROPERTIES:**

**SECTION DIMENSIONS**

SECTION WIDTH (VARIABLE) 2.3 M (7.7 FT.) TO 2.8 M (9.2 FT.)  
 SECTION LENGTH RANGE - MINIMUM 3.7 M (12.0 FT.) MAXIMUM 9.8 M (32.2 FT.)

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
GEOWEB - SPECIFICATIONS			
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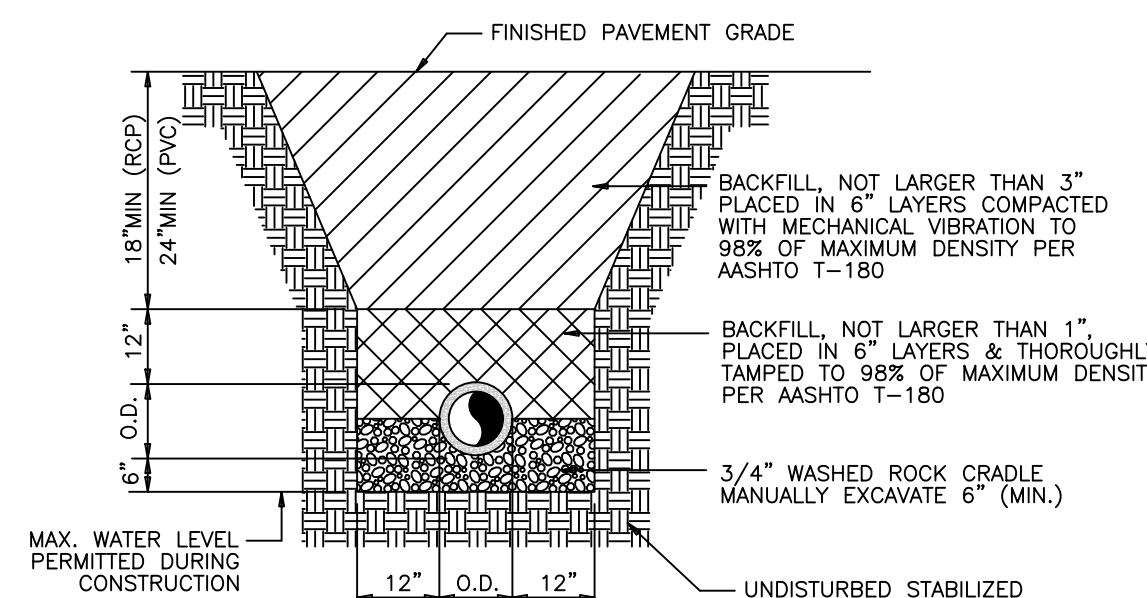
**NOTES:**

1. HALF ROUND PLATE TO BE WELDED TO TOP FOR POLLUTION RETARDANT BASIN.
2. THE HALF ROUND PIPE SHALL BE ONE SIZE LARGER THAN DISCHARGE PIPE.
3. FOR STRUCTURE'S CONSTRUCTION DIMENSIONS AND SPECS, SEE PRECAST CATCH BASIN DETAIL.
4. WEEP HOLES ARE NOT PERMITTED IN WELLED AREAS.

**POLLUTION RETARDANT BAFFLE**

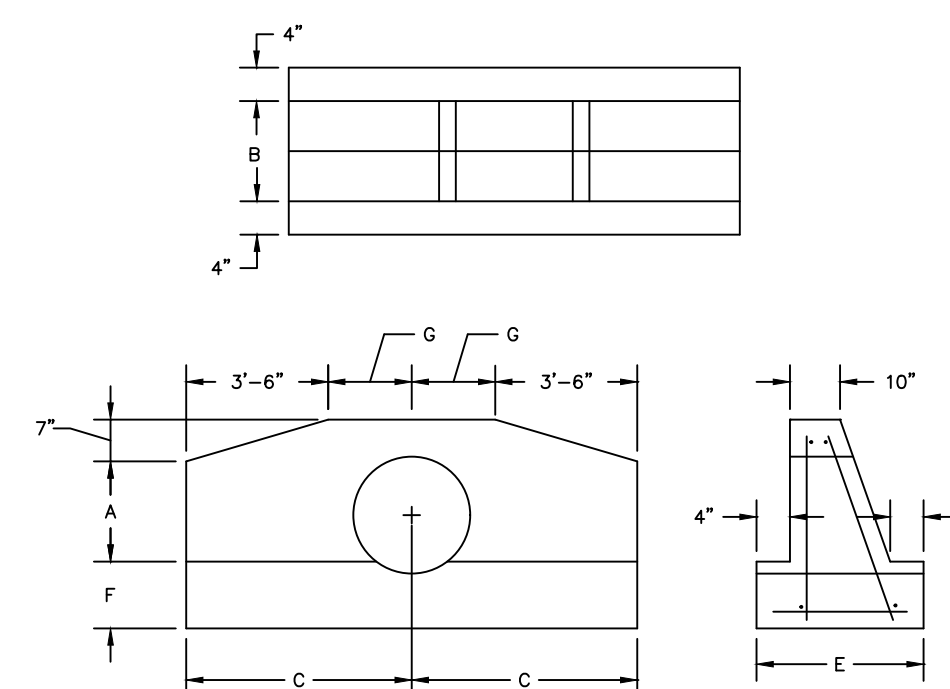
PIPE DIAMETER	A	B	C
15"	27"	24"	37"
18"	30"	24"	37"
24"	36"	36"	36"
30"	42"	36"	42"
36"	48"	42"	54"
42"	56"	56"	56"
48"	60"	48"	60"
60"	72"	72"	72"

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
POLLUTION RETARDANT BAFFLE			
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**TYPICAL TRENCH DETAIL**

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
PIPE INSTALLATION TRENCH DETAIL (STORM DRAIN)			
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PIPE SIZE	A	B	C	E	F	G
15"	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"
18"	2'-2"	1'-3"	4'-6"	1'-11"	1'-3"	1'-0"
24"	2'-8"	1'-4"	5'-0"	2'-0"	1'-4"	1'-6"

**F.D.O.T. STRAIGHT ENDWALL**

NOTE: REFER TO FDOT INDEX NO. 250 FOR ADDITIONAL DETAILS AND SPECIFICATIONS

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
F.D.O.T. STRAIGHT ENDWALL			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F375 Fig: 375

REVISIONS	
NO.	DESCRIPTION

DATE:  
Jul. 2015

SCALE:  
N.T.S.

DESIGNED BY:  
C.R.L.

DRAWN BY:  
A.E.V.

JOB NUMBER  
15-3715

SHEET No.  
C-2.7

SEAL

Jan 20 2016  
 CLIFFORD R. LOUTAN, P.E.  
 FL. REG. NO. 56890