

No.	REVISIONS	DATE	BY
1	ISSUED FOR PERMIT SUBMITTALS	8/1/2006	HLS
2	PER DRC COMMENTS	7/24/2006	GB
3	PER DRC COMMENTS	7/24/2006	GB
4	PER DRC COMMENTS	6/9/2006	HLS
5	PER DRC COMMENTS	5/24/2006	HLS

SCALE AS NOTED
 DESIGNED BY EJM
 DRAWN BY GB
 CHECKED BY HLS

CITY OF COCONUT CREEK
 UTILITIES AND ENGINEERING DEPARTMENT

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 SCALE: N.T.S.
 DWG: F372
 FIG: 372

GEOMB - SPECIFICATIONS

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

SECTION DIMENSIONS

SECTION PROPERTIES:

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

ALTERNATE SEAM HANG 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.

SEAM HANG STRENGTH TEST

MINIMUM CERTIFIED CELL SEAM STRENGTH - 1420 N (320 LBF)
 CELL DEPTH - 75 MM (3 IN)
 DENSITY PER SQUARE METER (SQUARE YARD) - 26.4 (26.9)
 NOMINAL AREA ± 1% - 289 SQUARE CENTIMETER (44.8 SQUARE INCHES)
 WIDTH - 259 MM (10.2 IN)
 LENGTH - 224 MM (8.8 IN)
 DEPTH - 100 MM (4 IN)

CELL DETAILS

CELL AND SEAM PROPERTIES:

SHALL BE 12 MM (0.50 IN) FROM THE STRIP EDGES AND 25 MM (1.0 IN) FROM THE CELL WELD POINTS. AND SEPARATED 12 MM (0.50 IN) RELATIVE TO THE HOLE CENTERS, OUTER PERFORATION CENTERS WITHIN EACH ROW SHALL BE 19 MM (0.75 IN) ON-CENTER. HORIZONTAL ROWS SHALL BE STAGGERED PERFORATED WITH HORIZONTAL ROWS OF 10 MM (0.391 IN) DIAMETER HOLES. PERFORATIONS OF 22-31 PEN SQUARE CENTIMETER (140-200 PER SQUARE INCH). IN ADDITION, THE STRIPS SHALL BE (DIAGONAL SHAPE) INDENTATIONS. THE INDENTATIONS SHALL HAVE A SURFACE DENSITY MATERIAL - THE POLYETHYLENE STRIPS SHALL BE TEXTURED WITH A MULTITUDE OF RHOMBICAL ASTMA D 5211. THE QUANTITY OF PERFORATIONS SHALL REMOVE 13.8% ± 2.1% OF THE CELL WALL AREA. ANGLE OF THE SILICA SAND AT 100% RELATIVE DENSITY SHALL BE NO LESS THAN 50% OF THE PEAK FRICTION. THE PEAK FRICTION ANGLE BETWEEN THE SURFACE OF THE TEXTURED/PERFORATED PLASTIC AND PERFORMANCE - THE POLYETHYLENE STRIPS SHALL BE TEXTURED AND PERFORATED SUCH THAT SURFACE TREATMENT

STRIP PROPERTIES:

MINIMUM ESCR - 3000 HR
 STABILIZER - CARBON BLACK CONTENT 2%-2.0% BY WEIGHT
 COLOR - BLACK
 POLYMER - POLYETHYLENE WITH DENSITY OF 0.935-0.965 g/cm³

BASE MATERIAL:
 (BY PRESTO PRODUCTS OR EQUAL)

GEOMB SPECIFICATIONS GW20V - 100 MM (4 IN) DEPTH

NOTES:

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EXPILLATION TRENCH

LONGITUDINAL SECTION

Kimley-Horn and Associates, Inc.
 2006 KIMLEY-HORN AND ASSOCIATES, INC.
 5200 NW 33RD AVENUE, SUITE 109, FT. LAUDERDALE, FL 33309
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 (954) 535-5100

PROJECT NO. 042701051
 DATE 12/09/05
 COCONUT CREEK, BROWARD COUNTY
 FLORIDA

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POLLUTION RETARDANT BAFFLE

PIPE DIAMETER	PIPE SCHEDULE	WELDED JOINTS
60"	72"	72"
48"	60"	48"
42"	56"	56"
36"	48"	42"
30"	42"	36"
24"	36"	30"
18"	30"	24"
15"	27"	24"
12"	24"	24"
10"	24"	24"

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SAMPLE PEDESTAL RAMPS

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PIPE INSTALLATION TRENCH DETAIL (STORM DRAIN)

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TYPICAL SITE PAVEMENT SECTION

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DUMPSTER AND RECYCLING ENCLOSURE

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HEAVY DUTY CONCRETE PAVEMENT