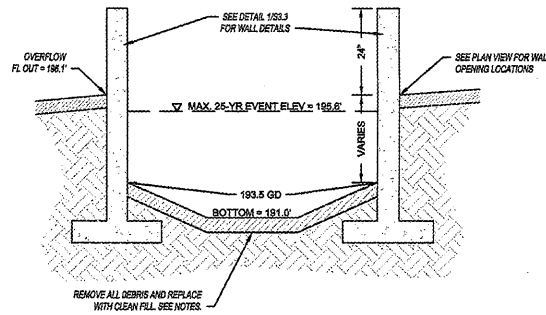


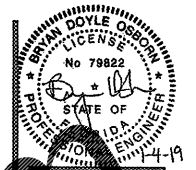
**1** **DOWNSPOUT COLLECTOR**  
**C1.2** SCALE: NOT TO SCALE



- NOTE:
1. THE FILTER SAND SHALL BE WASHED (LESS THAN 1% SILT, CLAY AND ORGANIC MATTER).
  2. THE FILTER SAND SHALL HAVE A UNIFORM COEFFICIENT OF 1.5 OR GREATER.
  3. THE FILTER SAND SHALL HAVE AN EFFECTIVE GRAIN SIZE OF 0.20 TO 0.55 MILLIMETERS IN DIAMETER AND A MINIMUM PERCOLATION RATE OF 30 IN/HOUR.

**2** **DETENTION POND CROSS SECTION**  
**C1.2** SCALE: NOT TO SCALE

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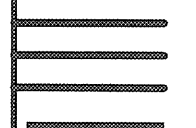


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REVISION	
DATE:	



C1.2

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**WATER QUALITY SUMMARY:**

THE REQUIRED WATER QUALITY VOLUME IS 1.0 INCHES OF RAINFALL OVER THE WATERSHED.

1. WATER QUALITY VOLUME REQUIRED:  
 $WQ_v = (1.03 \text{ acres}) \times (0.5 \text{ in.} / 12 \text{ in.}) \times (43,560 \text{ SF}) = 1,869 \text{ CF}$
2. WATER QUALITY VOLUME PROVIDED: 14,600 CF  
 PERMEABILITY RATE = 15 in/hr WITH FS = 2 (SEE STORMWATER REPORT FOR DETAILS)
3. RETENTION VOLUME PROVIDED:  
 DRAWDOWN TIME = 9.23 HOURS

**STORM WATER RUNOFF SUMMARY:**

TOTAL DRAINAGE AREA = 1.03 ACRES  
 TOTAL DISTURBED AREA = 0.8 ACRES < 1.0 ACRES THEREFORE NO NOI.

- |  |   |
|--|---|
| 1. ON-SITE AREAS & CURVE NUMBERS<br>DRAINAGE AREA = 0.30 ACRES   |   |
| <u>PRE-DEVELOPMENT</u>   | <u>POST-DEVELOPMENT</u>   |
| PERVIOUS AREA:<br>GRASS = 1.03 ACRES (CN = 39)<br>IMPERVIOUS AREA:<br>PARKING LOT & BUILDING = 0.00 ACRES (CN = 98)<br>COMPOSITE CURVE NUMBER, CN = 39 | PERVIOUS AREA:<br>GRASS = 0.01 ACRES (CN = 39)<br>IMPERVIOUS AREA: 0.04 ACRES<br>PARKING LOT & BUILDING = 0.99 ACRES (CN = 98)<br>COMPOSITE CURVE NUMBER, CN = 95 |
| 2. TIME OF CONCENTRATION:<br>EXISTING AND PROPOSED DEVELOPMENT<br>$T_c = 5 \text{ MIN}$  |   |

SEE STORMWATER REPORT FOR DETAILED WATER QUALITY AND STORMWATER ATTENUATION CALCULATIONS. PER CITY OF DESTIN LAND DEVELOPMENT CODE, THE FIRST 0.5 INCH OF RAINFALL SHALL BE RETAINED ON THE SITE AND THE 25 YEAR STORM EVENT MUST BE RELEASED AT OR BELOW EXISTING RATES. THE PROPOSED DETENTION WILL RETAIN THE ENTIRE 25 YEAR STORM EVENT. ALL STORMWATER IS PERCOLATED INTO THE PROPOSED DETENTION POND. ANY RAINFALL EVENTS GREATER THAN DESIGN EVENTS WILL DRAIN TO THE PARKING LOT TO THE SOUTH PER EXISTING DRAINAGE PATTERNS.