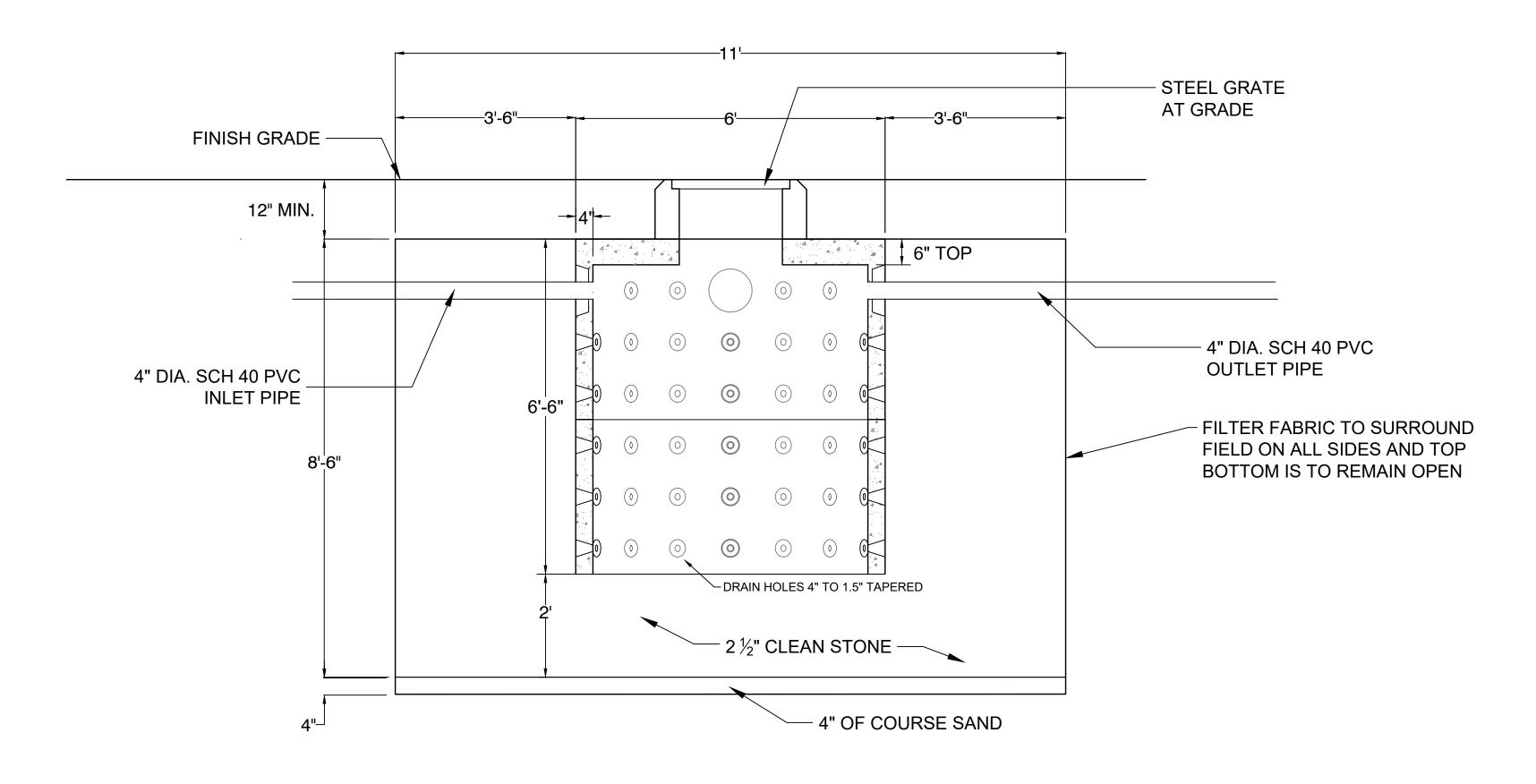
McGRESY RESIDENCE



DRYWELL SYSTEM STORAGE VOLUME CALCULATIONS

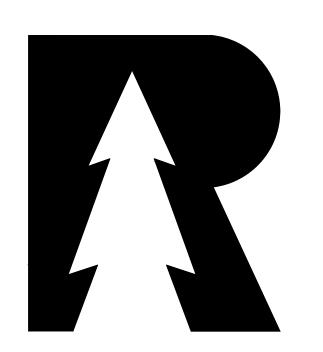
STORAGE VOLUME CALCULATED TO PROVIDE STORAGE FOR A 3" STORM

DRYWELL SYSTEM IS DESIGNED TO PROVIDE STORAGE FOR THE 829.84 SF. INCREASE OF IMPERVIOUS COVERAGE

TOTAL REQUIRED STORAGE = 207.46 FT³

DRY WELL SYSTEM TO BE COMPOSED OF A 8' WIDE x 8' LONG x 8.5' DEEP CLEAN STONE BED WITH 1 - 6'-0" DIAMETER x 5'-6" DEEP (BELOW OVERFLOW) PRECAST CONCRETE SEEPAGE TANK.

DISPLACEMENT VOLUME OF SEEPAGE TANKS: $3.14 \times R^2 \times H = 3.14 \times (3)^2 \times 6 = 169.56 \text{ FT}^3$ STORAGE VOLUME OF SEEPAGE TANKS: $3.14 \times R^2 \times H = 3.14 \times (2.67)^2 \times 5.5 = 123.12 \text{ FT}^3$ VOLUME OF STONE BED: $L \times W \times H = 8' \times 8' \times 8.5' = 544 \text{ FT}^3$ STORAGE VOLUME OF STONE BED: (VOL. OF BED - DISP. VOL. OF TANKS) x 33% VOID RATIO $(544 \text{ FT}^3 - 169.56 \text{ FT}^3) \times .33 = 123.56 \text{ FT}^3$ STORAGE VOLUME OF DRYWELL: STORAGE VOL. OF STONE BED + STORAGE VOL. OF TANKS 123.56 FT³ + 123.12 FT³ = 246.68 FT³ TOTAL STORAGE VOLUME REQUIRED = 207.46 FT³ TOTAL STORAGE VOLUME PROVIDED = 246.68 FT³ 39.22 FT³ SURPLUS VOLUME



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	REVISION				
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	ı	12/6/23	REVISION	NS	
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LOT 25 BLOCK 2303

McGREEVY RESIDENCE

29 DEERFIELD DRIVE
BOROUGH OF
FLORHAM PARK
MORRIS COUNTY
NEW JERSEY

Project Number:	Scale:
Drawn By:	Approved By:
NS	RH

DRYWELL DETAIL AND CALCULATIONS

Drawing Numb

DI.

BRIAN M. HOARLE NJ. PE. LIC. #43521