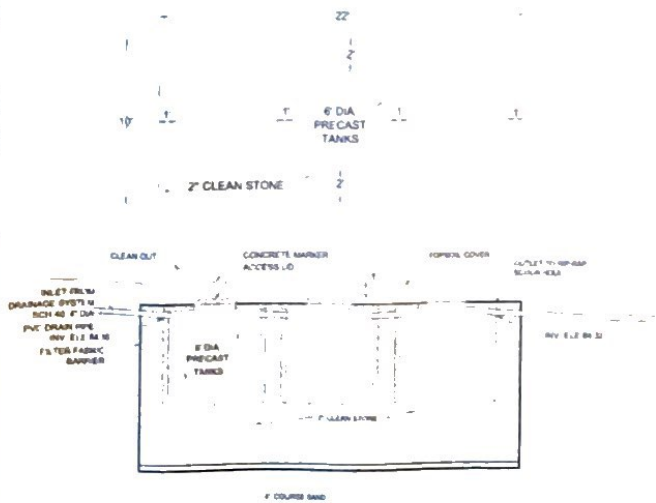


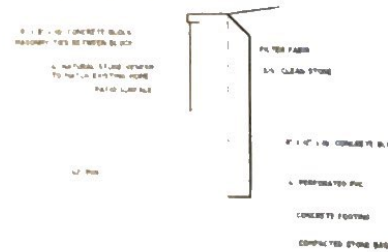
1. GRADING AND DRAINAGE PLAN
SCALE 1" = 20' 00"



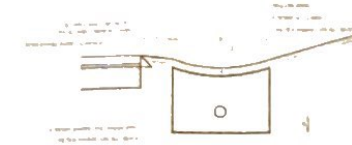
2. DRYWELL DETAILS AND CALCULATIONS
SCALE 1" = 1' 00"

DRY WELL CALCULATIONS
 ADDITIONAL IMPERVIOUS COVERAGE AS PER PROPOSED ZONING SCHEDULE = 3,124 sq ft
 PROPOSED DRYWELL SYSTEM
 VOLUME OF PROVIDED STORAGE DESIGNED TO ACCOMMODATE A 2" STORM OVER A 24-HR PERIOD
 STORAGE REQUIRED = 17,417.24 + 1,630.16 CUBIC FEET
 DRY WELL
 COMPOSED OF A 10" WIDE x 22' LONG x 10' DEEP CLEAN STONE BED WITH 3 6" DIA PRECAST TANKS
 DISPLACEMENT VOLUME OF SEEPAGE TANKS
 3 14 x 14 x 14 = 3,14 x 13 x 5 = 168.56 FT³ x 3 TANKS = 505.68 FT³
 STORAGE VOLUME LA SEEPAGE TANKS
 3 14 x 14 x 14 = 3,14 x 12.87 x 5.5 = 122.12 FT³ x 3 TANKS = 366.36 FT³
 VOLUME OF STONE BED
 6 x 22 x 10 = 13,200 FT³
 STORAGE VOLUME OF STONE BED
 1% OF BED DISP. VOL. OF TANKS = 46% VOID RATIO
 2,200 FT³ x 0.46 = 1,013.2 FT³
 STORAGE VOLUME OF DRYWELL
 STORAGE VOLUME OF STONE BED + STORAGE VOL. OF TANKS
 1,013.2 FT³ + 869.36 FT³ = 1,882.56 FT³
 TOTAL STORAGE VOLUME REQUIRED = 1,882.56 FT³
 TOTAL STORAGE VOLUME PROVIDED = 1,045.04 FT³
 SURPLUS VOLUME = 14.97 FT³

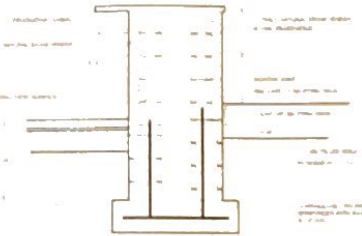
3. FIREPIT DETAIL
SCALE 1/2" = 1' 00"



4. RETAINING WALL DETAIL
SCALE N.T.S.



5. FRENCH DRAIN SYSTEM DETAIL
SCALE N.T.S.



6. GRILL AREA DETAIL
SCALE N.T.S.



7. PERGOLA DETAIL
SCALE N.T.S.



RDH Design Group

Landscape Architecture
 Architecture
 Project Management &
 Engineering

14 Blackwell Avenue
 Morris Township, NJ 07960
 Phone: 973-715-0100
 Fax: 973-490-7044
 www.rdhdesigngroup.com
 rdhdesigngroup@optonline.net

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 1/24 ORIGINAL DOCUMENT

LOT 57 BLOCK 68
THE GLENN RESIDENCE
 #27 EAST GREENBROOK RD
 BOROUGH OF
 NORTH CALDWELL
 ESSEX COUNTY
 NEW JERSEY

20-3 3008 P 1 of 20 00"
 GRADING AND
 DRAINAGE PLAN

2/5

BRIAN M. HOARLE
 NJ REG. L.C. #3552