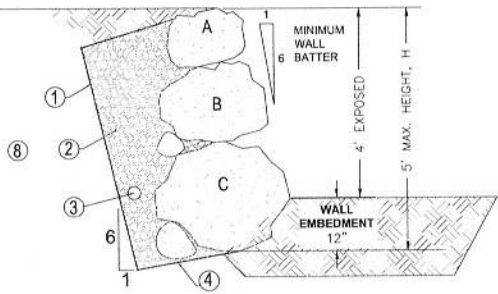


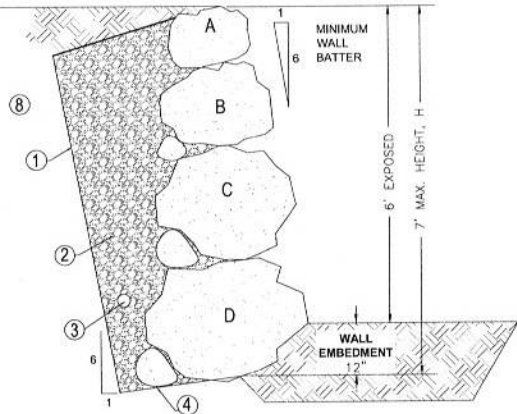
ROCKERY RETAINING WALL DETAILS



4' MAX. ROCKERY WALL
NOT TO SCALE

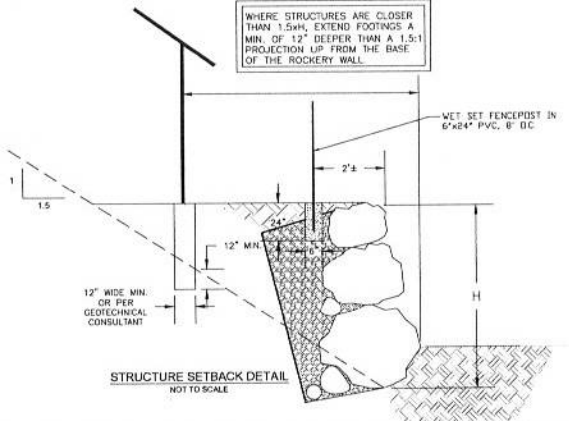
ROCK LETTER	MINIMUM ROCK SIZE TABLE			WEIGHT (lbs)
	APPROX. DIAMETER L (Feet)	W (Feet)	H (Feet)	
A	1.5	1.5	1.5	500
B	2	2	1.5	900
C	2.5	2.5	2	1875
D	3	3	2	2700
E	3.5	3.5	2.5	4500
F	4	4	3	7200
G	4	5	3	9000

NOTE: Width is equivalent to depth, i.e. perpendicular to the wall.



6' MAX. ROCKERY WALL
NOT TO SCALE

WHERE STRUCTURES ARE CLOSER THAN 1.5H, EXTEND FOOTINGS A MIN. OF 12" DEEPER THAN A 1.5:1 PROJECTION UP FROM THE BASE OF THE ROCKERY WALL.



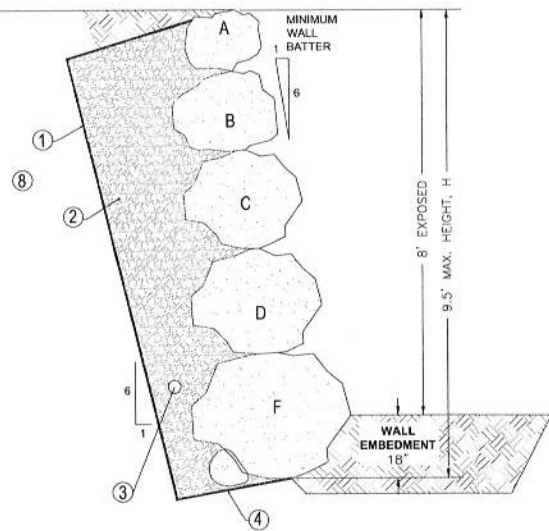
STRUCTURE SETBACK DETAIL
NOT TO SCALE

DESIGN NOTES:

1. GEOTEXTILE FILTER FABRIC MIRAFI 140N OR EQUIVALENT.
2. 3" TO 6" CLEAN CRUSHED GRAIN ROCK MIN THICKNESS 12"
3. CONTINUOUS 4" DIA. SCHEDULE 40 PVC OR SDR 35 PERFORATED DRAIN PIPE, SLOPE @ 1% MIN, OUTLET AT BASE OF WALL. BLACK CORRUGATED PIPE NOT ACCEPTABLE.
4. 5%-10% GRADE TO BACK OF KEY.
5. NO STRUCTURE WITHIN 5' OF BASE OF WALL, OR 1.5xH BEHIND/ABOVE WALL.
6. EMBEDMENT: THE MINIMUM EMBEDMENTS SHOWN ARE TO BE EXCAVATED IN STRUCTURAL FILL AND/OR UNDISTURBED NATIVE MATERIAL, PER SOILS REPORT. TOPSOIL/LANDSCAPING WILL NOT CONTRIBUTE TO THE MINIMUM REQUIRED EMBEDMENT DEPTH. ADDITIONALLY, WHERE SLOPING TOE CONDITIONS EXIST, THE EMBEDMENT SHOULD BE DEEPENED TO ACHIEVE A MINIMUM PROJECTION OF 5 FEET FROM THE BASE OF THE WALL TO DRYLIGH ON THE SLOPE.
7. WALLS DESIGNED BASED ON A FRICTION ANGLE OF 34° AND UNIT WEIGHT OF 130 PCF, IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY YOUNGDMH CONSULTING GROUP, DATED NOVEMBER 30, 2023.
8. STRUCTURAL BACKFILL BEHIND ROCKERY WALLS TO BE COMPACTED PER THE GEOTECHNICAL REPORT.
9. GUJARTE & ASSOC., INC. SHOULD BE RETAINED TO PROVIDE VISUAL OBSERVATION DURING ROCKERY WALL CONSTRUCTION. DUTIES OF THE ON-SITE FIELD TECHNICIAN INCLUDE CHECKING KEY DEPTHS FOR WALL EMBEDMENTS, AND GENERAL ROCK PLACEMENT.

CONSTRUCTION NOTES:

- A. MAXIMUM HEIGHT ABOVE GROUND SURFACE OF 8 FEET.
- B. MINIMUM ROCK SIZES PER THE TABLE, THIS SHEET. ROCK WEIGHT PER LINEAL FOOT MAY VARY BY ± 15% DEPENDING ON MATERIAL AVAILABILITY AND VARIOUS SHAPES.
- C. THE ROCKERY CONTRACTOR SHALL HAVE A MINIMUM 5 YEARS EXPERIENCE IN CONSTRUCTING GRAVITY, ROCK RETAINING WALLS.
- D. ROCK FACING SHALL CONSIST OF THE APPROXIMATE SIZE SHOWN IN THE TABLE. CHINKING (FILLING OF VOIDS) WILL BE REQUIRED WHERE VOIDS BETWEEN THE ROCKS ARE GREATER THAN 6 INCHES; CHINKING TO BE PLACED WITH PRYBAR AND BLEEDHAMMER TO PROVIDE TIGHT FIT.
- E. THE BASE KEY SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12 INCHES FOR WALLS UNDER 6 FEET TALL, AND 18 INCHES FOR WALLS BETWEEN 6 AND 8 FEET TALL. INCREASE EMBEDMENT AS NEEDED TO ACHIEVE A 5-FOOT HORIZONTAL PROJECTION FROM THE BASE OF THE WALL TO DRYLIGH ON THE SLOPE. SLOPE THE KEY 5 TO 10 PERCENT TOWARD THE BACK OF THE KEY.
- F. ROCKS SHALL BE PLACED SO THAT THE JOINTS BETWEEN ROCKS ON OVERLYING COURSES ARE DISCONTINUOUS.
- G. CAP ROCKS TO BE 150 LBS. MINIMUM.
- H. IF NECESSARY, BASE ROCKS MAY BE DOUBLED UP TO OBTAIN ADEQUATE WIDTH AS LONG AS THE OVERLYING ROCKS ARE PLACED IN A DISCONTINUOUS FASHION.



8' MAX. ROCKERY WALL
NOT TO SCALE

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FILE NO: 9716
REV. DATE: NOV. 14, 2025

SHEET RW1