



WORLD BLOCK RETAINING WALL NOTES:

- THE PURPOSE OF THIS PLAN IS TO SHOW THE DESIGN OF A RETAINING WALL IN ACCORDANCE WITH THE LAYOUT DEPICTED ON THE PLAN OF REFERENCE. THE LAYOUT OF THE WALL SHOWN ON THE PLAN OF REFERENCE, OR ANY DEVIATIONS TO THAT LAYOUT HAS BEEN AUTHORIZED BY THE CLIENT.
2. THIS RETAINING WALL SYSTEM MAY IMPACT OR BE IMPACTED BY OTHER SITE FEATURES, INCLUDING STORMWATER MANAGEMENT FACILITIES, UTILITIES, AND BUILDING SYSTEMS. THE APPROPRIATE RESPONSIBLE PROFESSIONALS SHALL REVIEW THESE PLANS TO INSURE PROPER COORDINATION.
3. THIS DESIGN IS PREPARED IN ACCORDANCE WITH THE STATE BUILDING CODE AND APPLICABLE MANUFACTURERS GUIDELINES. SPECIFIC LOCAL REGULATIONS HAVE NOT BEEN INVESTIGATED.
4. CONCRETE USED FOR WALL UNITS SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 P.S.I. WALL UNITS SHALL COMPLY WITH WORLD BLOCKS SPECIFICATIONS. ASTM C-1776 AND ACI-301-99. HAVE 4 1/2% - 7 1/2% ENTRAINED AIR, 4" - 6" SLUMP, AND MUST BE PLACED AT A MINIMUM AMBIENT TEMPERATURE OF 50°F.
5. CONTRACTOR AND/OR SITE ENGINEER SHALL CONFIRM ALL ELEVATIONS AND INVERTS IN THESE PLANS PRIOR TO ORDERING MATERIAL.
6. PROOF COMPACTION OF SUBGRADE SHALL BE COMPLETED PRIOR TO PLACEMENT OF LEVELING PAD AND RETAINING WALL BLOCKS. THE EXISTING SUBGRADE WITHIN THE STRESS ZONES OF THE RETAINING WALL BASE SHOULD BE FIRM NATURAL SOILS OR COMPACTED BEDROCK. IF EXISTING SUBGRADE IS NOT SUITABLE, IT SHOULD BE REMOVED WITHIN A 1:1 FROM THE RETAINING WALL BASE. ONCE SUITABLE SUBGRADE IS REACHED, BACKFILL WITH STRUCTURAL FILL OR CRUSHED STONE.
7. LEVELING PAD SHALL BE 3/4" CRUSHED STONE WITH NO MORE THAN 5% PASSING A #200 SIEVE.
8. ENSURE THAT THE FIRST COURSE OF WALL UNITS IS IN FULL CONTACT WITH LEVELING PAD. INSTALL SUBSEQUENT COURSES OF UNITS SUCH THAT THE VERTICAL SEAMS ARE STAGGERED BETWEEN ADJACENT COURSES. GAPS SHALL BE FILLED WITH DRAINAGE STONE PRIOR TO STARTING THE NEXT COURSE.
9. WALL ANGLES SHALL BE SLIGHTLY ADJUSTED TO ACCOMMODATE PROPERTY LINES AND OBSTRUCTIONS.
10. WORLD BLOCK MANUFACTURER'S RECOMMENDATIONS SHALL BE CONSIDERED A MINIMUM REQUIREMENT FOR PROPER ASSEMBLY.
11. DRAINAGE STONE SHALL BE 3/4" CRUSHED STONE PLACED DIRECTLY BEHIND WALL FOR THE DEPTHS SPECIFIED ON PLANS.
12. MIRAFI 140N OR APPROVED EQUIV. FILTER FABRIC SHALL BE PLACED BETWEEN ALL INTERFACES OF DRAINAGE STONE AND OTHER SOILS. EXPOSED DRAINAGE STONE SHALL BE PROTECTED FROM FINE SOIL MIGRATION THROUGHOUT CONSTRUCTION.
13. CONTRACTOR SHALL TAKE CARE TO NOT DISTURB OR INTERFERE WITH THE EFFECTIVENESS OF THE FILTER FABRIC WHEN INSTALLING ANY FEATURES THAT REQUIRE PENETRATIONS THROUGH THE FABRIC.
14. DRAINS SHALL BE PERFORMED, 4" DIAMETER HDPE PIPE, AND SHALL MEET THE REQUIREMENTS OF ASTM F405. DRAINS SHALL BE PITCHED FOR POSITIVE WATER FLOW. THE ELEVATION OF THE DRAIN SHALL ALLOW FOR INTERCEPTED FLOWS TO DISCHARGE AT OUTLET LOCATIONS. THE DRAIN SHALL PENETRATE THROUGH THE WALL FACE AT OUTLET LOCATIONS. OUTLET LOCATIONS SHALL BE NO GREATER THAN 90' APART. THE LOCATION OF THE DRAIN OUTLETS SHALL BE DETERMINED IN THE FIELD BY THE SITE ENGINEER. INSTALL RODENT SCREEN AT OUTLET.
15. GRAVEL BACKFILL BEYOND DRAINAGE STONE SHALL BE WELL GRADED SAND/GRAVEL AND SHALL MEET THE FOLLOWING GRADATION:
- | <u>SIEVE SIZE</u> | <u>PERCENT PASSING</u> |
|-------------------|------------------------|
| 3 IN. | 100 |
| 3/4 IN. | 70-100 |
| NO. 4 | 40-90 |
| NO. 10 | 10-50 |
| NO. 200 | 6-10 |
16. ALL GRAVEL BACKFILL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR (ASTM D698). ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITHIN THREE FEET OF THE BACK OF THE WALL BLOCKS. CONTRACTOR SHALL COMPACT THE BACKFILL MATERIAL BEHIND THE WALL AS THE WALL IS INSTALLED. SPREAD BACKFILL IN UNIFORM LIFTS NOT EXCEEDING 9" THICK.
17. FINISHED GRADE AT TOP OF WALL IS APPROXIMATE ONLY. FINISHED GRADE AT TOP OF WALL SHOULD CHANNEL DRAINAGE FLOW AWAY FROM THE RETAINING WALL SYSTEM. CONTRACTOR TO DRESS FINISHED GRADE TO CREATE SMOOTH TRANSITION TO BLOCK.
18. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EXCAVATIONS ARE STABLE AND MEET OSHA REQUIREMENTS.
19. FALL PROTECTION IS RECOMMENDED AT THE TOP OF WALLS. CROSS SECTIONS MAY SHOW FALL PROTECTION AS SCHEMATIC DESIGN. THIS IS NOT A FALL PROTECTION DESIGN AND IS INTENDED FOR ILLUSTRATIVE PURPOSES ONLY.
20. ANY GUARDRAIL SYSTEM SHALL BE SET BACK A MINIMUM OF 3 FEET FROM THE FACE OF THE WALL OR SHALL BE INSTALLED PER RETAINING WALL MANUFACTURER'S RECOMMENDATION. THE DESIGN OF A GUARDRAIL OR GUARDRAIL ANCHORING SYSTEM IS NOT PART OF SFC'S SCOPE OF WORK. GUARDRAIL INSTALLATION TO BE DIRECTED BY SITE ENGINEER.
21. ANY FENCE ANCHORING SYSTEM SHALL BE INSTALLED PER RETAINING WALL MANUFACTURER'S RECOMMENDATION.
22. THE WALL DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF CONDITIONS ARE DIFFERENT THAN DESCRIBED ON THIS PLAN.
23. UNLESS SFC ENGINEERING IS CONTRACTED TO OBSERVE CONSTRUCTION, SFC ENGINEERING WILL NOT CERTIFY THE CONSTRUCTION. PERIODIC SITE VISITS WILL BE NECESSARY IN ORDER FOR THE WALL DESIGN ENGINEER TO PREPARE A CERTIFICATION AT THE END OF CONSTRUCTION. THE OWNER SHALL COORDINATE THE FEES AND SCHEDULE FOR THESE SITE VISITS WITH THE WALL DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION.

<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>
3 IN.	100
3/4 IN.	70-100
NO. 4	40-90
NO. 40	10-50
NO. 200	0-10

