STAKE OUT THE WALL

1. Have a surveyor stake out the wall’s placement. Verify the locations with the project supervisor.

EXCAVATION

2. Excavate for the leveling pad to the lines and grades shown on the approved plans and excavate enough soil behind the wall for reinforcement placement. In ‘cut’ areas, the trench for the leveling pad should have a minimum width of 24 inches and be 14 inches deep.

3. Make sure there is enough room for the cutback per safe working requirements of OSHA. See Diagram 1.

LEVELING PAD

4. Place base material as shown in the drawings on undisturbed soils. Base material should be a minimum of 6 inches thick and 24 inches wide.

5. An aggregate leveling pad base is composed of good, compactible base material of 3/4 inch minus with fines. See Diagram 2.

BASE COURSE

6. Placing the foundation units is one of the most important steps in the construction process, both structurally and aesthetically.

7. Run a string line along the back of the foundation units and align the units as necessary.

8. Begin laying block at the lowest elevation of the wall.

9. Place first course of Anchor™ Landmark® foundation units on the prepared base material. Place the units side by side. A gap of up to 1 inch is permissible between foundation units, provided a geotextile filter is placed behind the units.

10. Make sure the units are in full contact with the base material.

11. Level each unit front to back and side to side.

12. Once the foundation course is installed, leveled and aligned, place the first course of full-height units; then place in-fill soil in front and behind the base course.

13. Carefully compact in front and behind the foundation units with lightweight hand-operated compaction equipment.

14. Recheck the foundation units for level and alignment. See Diagram 3 and 4.

FULL UNIT INSTALLATION

5. Place full-height units into flange, ensure direct contact with immediately adjacent units and pull forward to engage lock flange.

6. Place unit in running bond. (Running bond occurs when the units are centered over the vertical joining of the previous course.)

7. String line back of block to ensure lateral alignment is achieved.

8. Shim as needed to maintain wall batter alignment. Strips of reinforcement may be used for shim material.

9. To build an inside curve, check the wall construction or site grading plans for the dimension of the radius curves to be built. The minimum inside radius curve, at the base of the wall, is 6 feet.

10. Begin by driving a stake in the ground at the desired center of the curve. Attach a stringline and rotate it in a circle around the stake to mark the radius at the front to the foundation units. Align each foundation unit with the desired radius curve and ensure level placement from front to back and side to side.

11. The setback of the block will cause the radius of each course to gradually increase and eventually affect the running bond of the wall. To maintain proper running bond, use partial units as necessary.

12. Outside curves are constructed using the tapered units. The minimum outside radius curve, at the top of the wall, is 9 feet.

13. Begin by determining the desired radius at the top of the wall, drive a stake in the ground at the desired center of the curve. Attach a stringline and rotate it in a circle around the stake to mark the radius at the back of the foundation units. Align each foundation unit with the desired radius curve and ensure level placement from front to back and side to side. Note: To calculate the radius of the foundation course, given the radius at the top of the wall, add 1 inch of radius for each 1.25 feet of wall height. See Diagrams 5.
DRAINAGE DESIGN
6. Each project is unique. The site grades will determine at what elevation to install the drain tile. Refer to the construction plans for details of drainage system design.
   • Place drain tile as low as possible behind the wall, so water drains down and away from the wall into a storm drain or to an area lower than the wall.
   • If using sand directly behind the Anchor™ Landmark® units, place geotextile filter at back of the Anchor Landmark unit and proceed with construction.
   • If using a non-select backfill, place a minimum of 1 foot drainage aggregate behind the Anchor Landmark units. Have a local engineer review non-select backfill soil and design to determine if alternate drainage systems are applicable. See Diagram 6.

COMPACATION
7. Place reinforced soils in 6 to 8 inches of loose lifts where hand-operated compaction equipment is used and in not more than 12 inches of loose lifts where large self-propelled compaction equipment is used.
   • Place, spread and compact reinforced backfill in such a manner as to minimize slack and the formation of wrinkles in the reinforcement.
   • Only hand-operated compaction equipment is allowed within 4 feet of the back of the units.
   • All backfill should be compacted as specified by the project geotechnical engineer. Refer to the wall construction specifications for specific details regarding compaction.
   • Prior to periods of construction inactivity, the backfill should be graded to drain water away from the wall face. Trenches or berms may be needed to control surface drainage in the vicinity of the cut slope, wall backfill or toe area.
   • Repeat full-unit installation instructions, backfill, compact and follow reinforcement steps until wall is complete. See Diagram 7 and 8.

REINFORCEMENT (IF REQUIRED)
8. Make sure geosynthetic reinforcement is of the correct type per the wall design drawings.
   • Ground should be level with top of Anchor Landmark units prior to rolling out geosynthetic reinforcement.
   • Lay geosynthetic reinforcement flat across top of block, to the front face. The reinforcement has a primary-strength direction, which must be laid perpendicular to the wall face. Do not overlap reinforcement.
   • Place the lock bar into the locking channel, flat side up and angled side to back of block. Maintain reinforcement within 1 inch of front of block.
   • Once the lock bar is in place, roll geosynthetic reinforcement back to the specified length and tension.
   • Use stakes or staples to hold the tension in the geosynthetic reinforcement.
   • Place a layer of soil on top of the reinforcement, working from the block outward to the back of the geosynthetic reinforcement. Note: never run heavy equipment directly on top of the geosynthetic reinforcement.
   • Place the next course of units and repeat steps above. See Diagram 9 and 10.

CAPPING A WALL
9. Lay out the Anchor Landmark cap units for the entire length of the wall, starting at the lowest elevation.
   • Alternate short and long faces on a straight section of the wall.
   • Cut cap units as required to obtain proper fit on radius curves and angled corners.
   • At steps in wall elevation, stack to cap units.
   • Apply an exterior concrete construction adhesive to adhere to the block.
   • Use a string line to maintain proper cap alignment.
   • Place a minimum of 6 inches of impervious backfill to prevent water from running into drainage aggregate.
   • Backfill and compact to finish grade after cap adhesive has set.

SITE CLEANING AND RESTORATION
10. Brush off the wall and remove any debris left from the construction work.

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