**INDOT Check List for MSE Wall Construction**

The following is a general checklist to follow when constructing a Mechanically Stabilized Earth wall (MSE wall). The answer to each of these should be yes unless plans, specifications or specific approval has been given otherwise.

**YES**  **NO**

01. □ □ Has the contractor submitted wall shop drawings?

02. □ □ Has the contractor submitted select backfill certification?

03. □ □ Has the contractor furnished a copy of any instructions the wall supplier may have furnished?

04. □ □ Has the contractor supplied a Certificate of Compliance that the wall materials comply with the applicable sections of the specifications? Has the contractor supplied a copy of all test results performed by the Contractor supplier to assure compliance with specifications?

05. □ □ Have the shop drawings been approved?

06. □ □ Has the geotechnical report been checked for undercutting?

07. □ □ Did the contractor receive the correct panels (shape, size and soil reinforcement connection layout) per the approved shop drawings?

08. □ □ Did the contractor receive the correct reinforcement (proper length and size)?

09. □ □ Have the panels and the reinforcement been Inspected for damage as outlined in the Specs?.

10. □ □ If any panels or soil reinforcement were found damaged have they been rejected or repaired in accordance with the specifications?

11. □ □ Are the panels and the soil reinforcement properly stored to prevent damage?
12. □ □ Has the MSE wall area been excavated to the proper elevation?
13. □ □ Has the area been proof rolled (a minimum of five passes by a roller weighing a minimum of 8 tons)?
14. □ □ Has all soft or unsuitable materials been compacted or removed and replaced?
15. □ □ Has the leveling pad area been properly excavated?
16. □ □ Has the leveling pad been set to the proper alignment?
17. □ □ Has the leveling pad cured for a minimum of 12 hours?
18. □ □ Is the first row of panels properly placed? Do they have proper spacing, bracing, tilt and where required, do they the spacers installed?
19. □ □ Has the proper filter fabric and adhesive been supplied?
20. □ □ Is the filter fabric being properly placed over the joints?
21. □ □ Is the adhesive being applied to the panel, than the filter fabric being placed?
22. □ □ Is the filter fabric stored properly away from sunlight and protected from UV radiation?
23. □ □ Is the contractor using correct panels (size, shape & # of connections) for that panel’s wall location & elevation?
24. □ □ Is fill being placed and compacted in 6 inch lifts?
25. □ □ Is the equipments are kept off the reinforcement until a minimum of 6 inches of fill is placed?
26. □ □ Are the lifts being placed by the proper method and sequence?
27. □ □ Is the fill being compacted by the correct equipment and in the correct pattern?
28. □ □ Is the proper compaction being met within 3 feet of wall and greater than 3 feet from the wall based on DCP criteria?
29. □ □ Is the fill being brought up to or slightly above the soil reinforcement elevation before the reinforcement are connected?
30. □ □ Is the reinforcement being properly connected?
31. □ □ Is the soil reinforcement in the proper alignment?
32. □ □ Is the vertical and horizontal alignments are checked periodically and adjusted as needed?
33. □ □ Is the contractor removing the wooden wedges as per specification?
34. □ □ At the end of each day’s operation is the contractor shaping the last level of backfill to permit a positive drainage away from the wall such as temporary pipe etc.?
35. □ □ Has the contractor backfilled the front of the wall?
36. □ □ Is the correct coping being installed?