

INSPECTOR CHECKLIST: 504 - MSE WALLS

Inspection Item	Yes	No	N/A	Remarks
PRE-CONSTRUCTION				
1				Shop Drawings, calculations, and material certifications submitted and approved? Wall Test Segment constructed and approved?
2				Have qualifications for installer been provided?
3				Has a Facial Panel Placing Plan been provided?
4				Have existing utilities been located? Marked? Deenergized? Protected? Conflicts resolved? Have equipment offsets from utilities been discussed?
5				Has wall layout been completed? Are locations, dimensions, skews, elevations, etc. per plan? Are there offset stakes in place that can be used if other stakes are disturbed or destroyed?
6				Does the Contractor have a plan to properly handle and maintain groundwater? Has this method been included in the SWMP and approved?
7				Have panels been stored correctly and have they been inspected for cracks or other damage?
8				Do the materials on site match those in the plans and meet required specifications? Panel dimensions, reinforcement lengths, etc.?
CONSTRUCTION				
9				Is the Contractor's qualified personnel on site during operation? Are technical supplies on site as required?
10				Approved backfill material has been installed correctly? Lift heights, compaction requirements, etc.
11				Is there any unsuitable in situ material that requires removal and replacement?
12				Has Leveling Pad been installed per plans and specifications?
				• Base material prepared properly?
				• Vertical Steps within limits?
				• Reinforcing steel installed per plan and concrete placed, consolidated, and cured properly?
				• Has levelness of pad been measured and within specified tolerances?
				• Has pad been backfilled as soon as practical?
13				Are bottom panels flush and fully supported by leveling pad?
14				Do panel numbers installed match those on the plans? Do panel colors, textures, dimensions, patterns, etc. match those in the plans?
15				Are there the correct number of connections between the panels and the soil reinforcement and do the connections match those on the plans?
16				Is bracing being used to maintain proper panel alignment and batter?
17				Is filter fabric being used to maintain gaps and are gaps the correct width?
18				Are soil reinforcements the correct length? Are they slightly tensioned (contain no slack)? Are there any obstructions that require special layout considerations?
19				If Settlement Monitoring is required, are devices protected from damage? Is monitoring performed per specifications?

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20	Are underdrains or drainage system installed per plan? Is water flowing properly?				
21	Has concrete coping been installed per plans and is it at the proper elevation and alignment? Has it been properly connected to top panels?				
22	Has the geomembrane been installed at the top of the fill? Does it has the correct slope and has it been properly connected to all other wall components?				
POST-CONSTRUCTION					
23	Has wall been inspected for flatness and do the results fall within specified tolerances?				
24	Has top of wall been surveyed and do elevations match those on the plans?				
25	Are soil reinforcements at the correct vertical spacing? Are they within the specified tolerances from top of panel and top of leveling pad?				

PLEASE NOTE THAT THE INTENT OF THESE CONSTRUCTION QUALITY ASSURANCE OBSERVATION CHECKLISTS ARE TO ASK QUESTIONS REGARDING OBSERVATION DUTIES THAT WILL PROMPT THE CONSTRUCTION OBSERVERS TO RESEARCH SOURCE DOCUMENTS TO DETERMINE ANSWERS. THEY DO NOT SERVE AS A REPLACEMENT TO REVIEWING AND KNOWING ALL SPECIFICATIONS AND SOURCE DOCUMENTS. SOURCE DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO: ATSSA QUALITY STANDARDS FOR WORK ZONE TRAFFIC CONTROL DEVICES; M&S STANDARDS; CONSTRUCTION BULLETINS; CONSTRUCTION MANUAL; SURVEY MANUAL; EROSION CONTROL MANUAL; HMA PAVING HANDBOOK; MUTCD; MATERIALS MANUAL; MATERIALS BULLETINS; PROJECT PLANS; STANDARD SPECIFICATIONS; PROJECT SPECIAL PROVISIONS; PROJECT STAND SPECIAL PROVISIONS; ETC. THE OBSERVER SHOULD ALSO CONSULT WITH THE CONSTRUCTION QUALITY ASSURANCE MANAGER AND OTHER EXPERIENCED PERSONNEL IF FURTHER CLARIFICATION IS REQUIRED.