

<b>This is a baseline checklist. Additional quality control items should be added from the Contractor's quality control plan.</b>			
<b>In order to capture QC items unique to the particular wall system, coordinate with the Wall Company's technical representative to add items from the Wall Company's construction manual, recommendations, etc. to this baseline checklist.</b>			
<b>Because most of the items on the checklist occur repeatedly throughout construction of each wall, the checklist should be completed daily, once for each portion of each wall constructed that day.</b>			
<b>Include daily test results, measurements, and/or documentation that show the following have been met:</b>			
<u>Date:</u>			
<u>Project:</u>			
<u>Project Number:</u>			
<u>Wall quality coordinator:</u>			
<u>Wall on-site supervisor:</u>			
<u>Wall Company's Technical Rep.:</u>			
<u>Resident Engineer:</u>			
<u>Wall Number:</u>			
<u>From STA:</u>			
<u>To STA:</u>			
<u>Lift/Row:</u>			
<u>Date</u>		<b>Quality Control Plan</b>	
		Date of authorized Quality control plan	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Required Experience</b>
			The wall on-site supervisor has the required experience
			The wall quality coordinator has the required experience
			The Wall Company's technical representative has the required experience
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Training</b>
			The wall construction training was conducted by the wall quality coordinator and the Wall Company's technical representative
			All personnel participating in wall construction attended the wall construction training
			New personnel who did not attend the initial training have been trained by the wall quality coordinator
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Wall Company's Technical Representative</b>
			The Wall Company's technical representative was on-site during the first 5 days of wall construction of each wall
			The wall quality coordinator coordinated with the Wall Company's technical representative and the Engineer during all phases of wall construction

			The Wall Company's technical representative was contacted, and provided technical assistance, as needed
			The Wall Company's technical representative has been kept up-to-date (through communications, pictures, data, information, site visits, etc.) on construction progress and issues.
			The portion of the wall constructed today was according to the specifications, Wall Company authorized drawings, and the Wall Company's construction manual
			Concerns of the Wall Company's technical representative have been addressed
			Guidance for quality construction from the Wall Company's technical representative has been implemented
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Wall Company Authorized Drawings and Other Requirements</b>
			Wall facing elements meet specifications, tolerances, and Wall Company authorized drawings
			Wall drainage elements meet requirements
			Soil reinforcement and properties meet Wall Company authorized drawings
			Facing elements delivered to site meet project requirements
			Facing elements delivered to site free of chips, cracks, etc.
			Wall connections meet Wall Company authorized drawings
			Other materials test results meet specifications and Wall Company authorized drawings
			Materials certifications meet specifications and Wall Company authorized drawings
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>MSE Backfill</b>
			MSE backfill source material is consistent [no apparent changes (e.g. water content, gradation, organics, fines content, etc.) observed in the material]
			MSE backfill is free of organics and other deleterious material
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Runoff</b>
			Wall fill graded to drain runoff away from wall face at end of each day
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Foundation (Subgrade) Preparation</b>
			Foundation (subgrade) consistently firm (and proof-rolled) throughout and prepared for wall placement (as determined by the Engineer)
			Foundation (subgrade) soft/wet material removed and replaced with compacted MSE backfill or other suitable material as determined by the Engineer
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Leveling Pad</b>
			Leveling pad location and dimensions staked and excavated to the correct elevation and horizontal location
			Leveling pad placed correctly according to location and dimension requirements, and constructed level
			Leveling pad material meets Department specifications
			Steps in leveling pads meet specifications and Wall Company authorized drawings
			Leveling pad concrete meets cure time requirements before setting facing elements.
			Leveling pad clean before placement of wall facing elements
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Sequencing</b>
			Wall facing, backfill, soil reinforcement, drainage elements, filter fabric, etc. placed in correct sequence per authorized drawings and Wall Company's construction manual

<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Drainage and Filter Fabric</b>	
			Drainage elements correctly tied into base drains according to the authorized wall drawings and contract plans	
			Drainage elements placed according to the authorized wall drawings and contract plans	
			Filter fabric placed according to the drawings	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Wall Face Bracing</b>	
			Wall facing elements temporarily held in place/braced to meet tolerances, according to Wall Company's recommendations	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Placed MSE Backfill</b>	
			Maximum fines content (15%) of placed MSE backfill in not exceeded	
			Placed MSE backfill meets other gradation requirements	
			Placed MSE backfill meets plasticity (PI<6) requirements	
			Placed MSE backfill meets electrochemical requirements	
			Placed MSE backfill is free of organics and other deleterious material	
			Placed MSE backfill not placed in frozen conditions	
			Placed MSE backfill has an internal friction angle of not less than 34 degrees	
			MSE backfill moisture content requirements for compaction are met	
			Placed MSE backfill meets moisture/density requirements	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Heavy Equipment Zone</b>	
			Heavy equipment not used within 3 feet of back of wall face	
			Heavy equipment not used within 3 feet of piles/drilled shafts	
			Heavy equipment not used within 3 feet of drainage boxes	
			Heavy equipment not used within 3 feet of other obstructions	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Lifts</b>	
			MSE backfill placed starting from near wall face (approximately 3 feet) to back of soil reinforcements	
			Lift thicknesses 12 inch (loose) or less as necessary to obtain the specified density	
			Full width (measured along soil reinforcement) of each lift placed and compacted before starting placement of next lift (no voids remaining beneath soil reinforcement, including in Light Equipment Zones)	
			Compaction requirements met throughout each lift of wall	
			Backfill placed in front of wall before wall height exceeds 4 feet	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Geomembrane</b>	
			Geomembrane placed/installed according to authorized wall drawing and contract plans	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b>Soil Reinforcements</b>	
			Soil reinforcements delivered to the site comply with authorized wall drawings	
			Correct soil reinforcements (length, type, size, strength, etc.) used in correct locations	
			Soil reinforcements placed in the correct orientation to the wall face	
			Soil reinforcements connected correctly to wall face	
			Soil reinforcement placed on compacted backfill at correct elevation (2" above soil reinforcement connection elevation shown) with no slack or voids beneath	

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil reinforcement held taught with consistent tensioning in reinforcement, from back of reinforcement
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil reinforcement placed with no slack, including at facing connections
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Requirements for maximum skew angle, deflection distance, clear distance, etc. of soil reinforcement are met
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil reinforcement not directly driven on
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b><u>Free Draining Granular Backfill</u></b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Free draining granular backfill placed near wall face (and other Light Equipment Zone areas) according to authorized wall drawings
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Maximum fines content (5%) of free draining granular backfill not exceeded
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Free draining granular backfill placed near wall face (and other Light Equipment Zone areas) placed in maximum 8-inch loose lifts and compacted with lightweight equipment
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b><u>First Layer of Wall Facing</u></b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	First layer of wall facing checked for correct location, alignments, levelness, plumbness, joint widths, and joint offsets
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Corrections to first layer of wall facing are completed before proceeding with second layer (to the satisfaction of the Wall Company and Engineer)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b><u>Clean Facing Unit Surfaces</u></b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Facing unit surfaces clean before placement of next layer of facing units
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b><u>Correct Locations</u></b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Panels/blocks/etc. placed in correct locations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bearing pads used in correct locations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b><u>Tolerances</u></b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frequent checking of wall facing for correct location, alignments, levelness, plumbness, joint widths, and joint offsets as wall is constructed
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Joint widths within tolerances
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wall alignments within tolerances
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wall levelness within tolerance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wall plumbness within tolerance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Joint offsets within tolerances
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Out-of-tolerance facing measurements are corrected to the satisfaction of the Wall Company and Engineer before continuing further wall construction
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b><u>Two-Stage Wall Connector Rod Skew Angle</u></b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For two-stage walls: skew angle of panel connector rods is less than 15 degrees (both vertically and horizontally)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b><u>Coping and Cap Blocks</u></b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coping placed according to authorized retaining wall drawings and contract plans
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cap blocks placed in correct locations (alignments, orientation, etc.) using the correct adhesive
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>N/A</u>	<u>No</u>	<u>Yes</u>	<b><u>Instrumentation</u></b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Instrumentation installation coordinated with instrumentation plan and specification

		No	Yes	<b>Construction Issues or Concerns</b>
				Wall Technical Representative and Engineer notified of any construction issues or concerns
				Construction issues or concerns tracked and documented until resolution as agreed to by the Engineer and Wall Technical Representative
				Has the Wall Company been involved enough (through site visits; communications; data, information, pictures, etc.) to proudly take ownership and stand behind their own wall system?