MECHANICALLY STABILIZED EARTH RETAINING WALL SYSTEM CHECKLIST

CONTROL SECTION:		JOB NO:	DATE:	
STRUCTURE NO:		PROJECT NAME:	-	
SUB-UNIT:		INSPECTOR:		
CONTRACTOR: PROJECT ENGINEER:				
A.	Shop Drawings Ensure contractor has submitted shop drawings for MSE Wa	all System.	INITIALS	DATE
	Note: Inspector must have a copy of the approved sh construction conformance.	op drawings and use them to ensure		
В.	Testing of Backfill			
	Ensure backfill has been tested and approved.			
	IMPORTANT: BACKFILL SHOULD BE TESTED SEVERAL WE BACKFILL. ALL TESTING OF BACKFILL SELECT IS DON TESTING DONE ON THE SOIL. TESTS CAN TAKE UP TO 14 CA	EKS IN ADVANCE OF PLACEMENT OF THE E IN LANSING, DUE TO THE EXTENSIVE LENDAR DAYS TO COMPLETE.		
C.	Layout			
	Ensure contractor has located and marked all utilities and o Wall System.	Irainage features in the vicinity of the MSE		
D.	Foundation Preparation			
	Ensure subgrade has been inspected and compacted to 95%	%, per Subsection 205.03.I.1.		
	Ensure frost susceptible foundation soils within 5 feet of the foundation soils be removed and replaced in the same man engineer should be notified.	ne wall face that are considered unsuitable nner as undercut soils. Note: Region soils		
	Ensure leveling pad is constructed in accordance with the <i>Standard Specifications for Construction</i> .	working drawings and Section 706 of the		
	Ensure leveling pads are cured a minimum of 12 hours before	re placement of facing panels.		
E.	Drainage			
	Ensure drainage is placed per plan. Ensure there is positive drainage throughout the drainage s	ystem.		
F.	Wall Erection of Concrete Panels			
	Ensure a copy of the manufacturer's construction manual inspector is familiar with them, prior to erection of the wall.	and shop drawings are provided and the		
	Ensure an on-site technical representative from the manurequested by the engineer.	ufacturer is provided, as necessary or as		
	Ensure when panels are delivered that there is no damage t	o the panels that will be cause for rejection.		
	Ensure contractor is installing the panels per manufacturer' shape, ³ / ₄ +- spacing between panels (horizontally and vertic	s recommendations (e.g., the correct size, cally), bracing, batter, and spacers).		
	Ensure the contractor uses temporary wedges or bracing backfill is placed.	to maintain the position of the panels as		
	Ensure contractor is removing temporary wedges per specif	ications.		
	Ensure contractor is placing filter fabric properly over joints placed on the panel, then the fabric is placed. The adhesive	s (e.g., using an approved adhesive that is e holds the fabric in place.).		
	Ensure soil reinforcement is galvanized for all applications	that are designed for 100-year service life.		
	Ensure contractor places soil reinforcement according to around any obstruction. Note: The soil reinforcement ma horizontally and/or vertically to avoid and provide adequate	the details in the working drawings and ay be splayed at maximum of 15 degrees clear space around obstructions.		

		INITIALS	DATE
	Ensure there is no slack in the soil reinforcements.	<u> </u>	
	Ensure equipment is kept from operating directly on the reinforcement (i.e., until adequate soil cover is placed over reinforcement).		
	Ensure backfill at each soil reinforcement level is to an elevation 1 inch above the level (or to manufacturer's specifications, whichever is greater) of the connection to eliminate voids beneath the soil reinforcement.		
G.	Wall Erection of Wire-Faced Panels		
	Ensure wire facing is the correct wire diameter, length, width, and spacing of longitudinal and transverse members.		
	Ensure strip reinforcements are the correct length and thickness.		
	Ensure L-panels are used on the bottom of all Wire-Faced Walls where the panels interface with the soil. This includes flat and sloped sections of the wall installation. The rectangular panels will need to be cut to fit in the sloped sections.		
	Ensure backfill behind the Wire-Faced Wall does not become saturated with water (e.g., water from curing the deck, water needs to be diverted away from backfill, water runoff from roadway).		
	Ensure equipment is kept from operating directly on the reinforcement (e.g., until adequate soil cover is placed over reinforcement).		
н.	Backfilling		
	Ensure if two different types of equipment are used to achieve density on each lift then the density needs to be tested in each area where a different type of equipment was used (e.g., if plate compactor is used around the piling then density is to be tested on that lift. On that same lift, if a bulldozer is used, then it needs to be tested for density in the area the bulldozer was used, too).		
	Ensure compaction is within 3 feet of the back face of the wall by making at least three passes with a lightweight mechanical tamper, roller, or vibratory system. Density will not be performed within this 3-foot zone.		
	Ensure some type of compaction effort is made between the flanges of the pile for each lift (i.e., use your foot to compact the soil), if MSE wall is in front of a pile supported abutment.		
	Ensure the last lift of backfill is sloped away from the wall facing at the end of each day's operation.		
	Ensure soil layers do not exceed 12 inches according to the Special Provision for Mechanically Stabilized Earth Retaining Wall System. Some manufacturers may recommend less, which would supersede the special provision.		
	BVC Liner		
••	Ensure to place PVC liner on prepared areas free of wrinkles as shown on plans.		
	Ensure a 24-inch shingle-lap of adjacent pieces of PVC liner is used, unless otherwise specified.		
	Ensure PVC liner is sloped away from the wall face a 0.5% minimum grade and 8 inches minimum clearance over soil reinforcement.		
J.	Finished Product		
	Ensure there are no visible signs of concrete panels or wire faced panels tilting, bulging, or deflecting.		
	Ensure there are not any signs of distress to the facing components (e.g., fracturing or spalling of concrete panels, bowing of wire baskets, etc.).		