

Diary Number: \_\_\_\_\_

Inspector Name: \_\_\_\_\_

TRACS Number: \_\_\_\_\_

Date: \_\_\_\_\_

Division IX: Incidentals

Title: Mechanically Stabilized Earth Walls

Station
Wall Number
Offset
MSE Supplier
APL ID Number
Product Name

Attribute Numbers	Compliance	Narratives	References
0.		All stakeholders have participated in the pre-activity meeting (can be combined with other pre-activity).	Recommended
1.		The Contractor selected an ADOT pre-approved Category C-1 proprietary retaining wall system (Mechanically Stabilized Earth Walls).	Special Provisions MSE-1.03
2.		Six sets of complete plans, working drawings and erection instructions have been submitted, reviewed, approved, distributed and filed.	Special Provisions MSE-2.01 Special Provisions MSE-2.02 and MSE-2.03
3.		The contractor has advised the Engineer at least 21 days prior to the start of concrete panel casting.	Special Provisions MSE-3.01 (B)
4.		A written Notification To Proceed has been issued by the Engineer, prior to the start of fabrication of the wall components.	Special Provisions MSE-2.01
5.		Precast concrete elements are not shipped or placed in the wall until the specified compressive strength has been attained.	Special Provisions MSE-3.01 (G)
6.		The date of manufacture, production lot number, and the piece mark is inscribed on a non-exposed surface of each precast element.	Special Provisions MSE-3.01 (E)

7.		Certificates of Compliance and Analysis conforming to the requirements of Subsection 106.05 of the Standard Specifications are submitted for all material except concrete.	Special Provisions MSE-3.07
8.		The Contractor furnished Certificates of Compliance conforming to the requirements of Subsection 106.05, which state that steel or iron products incorporated in the project meet the "Buy America" Act requirements certifying that all manufacturing processes producing a steel or iron product, including any application of a coating to iron or steel, occurred in the United States.	Special Provisions 106.15
9.		When required, temporary excavation support system designs (shoring) have been submitted, reviewed and approved.	Special Provisions MSE-4.01
10.		Areas are Blued Staked (Arizona 811 was contacted) prior to beginning work.	Standard Specifications 107.15
11.		Excavation is in accordance with the plan sheets.	Standard Specifications 203-5
12.		When the MSE structure is constructed on native material other than rock, the top foot is scarified and compacted to 95% of the maximum dry density.	Special Provisions MSE-4.02
13.		When metal reinforcement components are positioned on native soil, the top 1' of native soil meets the requirements of reinforced structure backfill material.	Special Provisions MSE-4.02
14.		If required, was the Reinforcing Steel Placement quantlist completed for the foundation?	Construction Bulletin 07-01 Manufacture Requirements Detail
15.		If required, was the Concrete Class S or B quantlist completed for the foundation?	Construction Bulletin 07-01 Manufacture Requirements Detail
16.		If required, was the Concrete Curing quantlist completed for the foundation?	Construction Bulletin 07-01 Manufacture Requirements Detail
17.		Representative samples (80 lbs.) of the structure backfill and retained backfill materials are furnished by the contractor at least three weeks prior to wall construction for testing or approval (?).	Special Provisions MSE-3.05 (F)
18.		During construction, structure backfill material is sampled, tested and approved in accordance with Table MSE-D.	Special Provisions MSE-3.05
19.		Concrete leveling pads are constructed level at the design elevation (+/- 1/8 inch).	Special Provisions MSE-4.03
20.		Concrete leveling pads are cured a minimum of 12 hours before placement of wall panels.	Special Provisions MSE-4.03
21.		Panels with excessively bent or damaged imbed connections are rejected.	Special Provisions MSE-3.01 (F)
22.		Openings between the facing panels and leveling pad steps are filled with Class S - 3,000 PSI concrete.	Special Provisions MSE-4.03
23.		For walls with rigid facing, not less than two or more than three rows of panel wedges are temporarily placed to maintain vertical alignment during wall erection.	Special Provisions MSE-4.05 (A)

24.		For walls with rigid facing, vertical alignment of the wall face does not vary by more than 3/4 inch in 10 feet.	Special Provisions MSE-4.05 (A)
25.		For walls with rigid facing, horizontal alignment of the wall face does not vary by more than 3/4 inch in 10 feet.	Special Provisions MSE-4.05 (A)
26.		For walls with rigid facing, the wall is plumb (+/- 1/2 inch in 10 feet).	Special Provisions MSE-4.05 (A)
27.		For walls with rigid facing, the maximum offset at any panel joint does not exceed 3/8 inch.	Special Provisions MSE-4.05 (A)
28.		For walls with flexible facing, vertical alignment of the wall face does not vary by more than 2 inches in 10 feet.	Special Provisions MSE-4.05 (B)
29.		For walls with flexible facing, the wall is plumb (+/- 1 inch in 10 feet).	Special Provisions MSE-4.05 (B)
30.		Any walls out of tolerance for vertical or horizontal alignment are corrected at the contractor's expense.	
31.		Joint pads are installed in accordance with the details of the plans and working drawings (correct size and location).	Special Provisions MSE-4.05 (E)
32.		Metallic reinforcement elements on compacted backfill are placed at the correct elevation within one inch of the connection elevation.	Special Provisions MSE-4.05 (C)
33.		When metallic reinforcement elements overlap, the panel connections are adjusted to maintain a minimum of 6" vertical separation.	Special Provisions MSE-4.05 (C)
34.		Geotextile fabric is correctly placed on the back side of the wall at all joints between panels.	Special Provisions MSE-4.05 (D)
35.		Adhesive for geotextile fabric is applied only to panels (not fabric) at least 2" from joints.	Special Provisions MSE-4.05 (D)
36.		Geosynthetic reinforcement is placed in the direction of the main reinforcement (normally perpendicular to the wall face; overlaps parallel to the wall are not permitted).	Special Provisions MSE-4.05 (F)
37.		After geosynthetic reinforcement has been placed on the compacted fill, suitable aids such as pins, piles of soil or ties are used to hold the reinforcement in position until the backfill layer is placed.	Special Provisions MSE-4.05 (F)
38.		Geosynthetic reinforcement is placed at the correct design elevation (+/- 3").	Special Provisions MSE-4.05 (F)
39.		Backfill closely follows erection of each panel course and is placed without damage to wall components.	Special Provisions MSE-4.06
40.		Backfill material is placed in 8" lifts, prior to compaction.	Special Provisions MSE-4.06
41.		Backfill material covering geosynthetic reinforcing material is placed and spread in such a manner that the reinforcing is maintained taut, without wrinkles, overlaps, or damage to the material.	Special Provisions MSE-4.06
42.		Reinforced (Structure) backfill within 3 feet of the wall facing is compacted by comparison method rolling determined from test sections.	Special Provisions MSE-4.06 (A)

43.		Reinforced (Structure) backfill outside 3 feet of the wall facing is 95% of maximum dry density per (ATM 225 - Proctor) (ATM 230 - Density).	Special Provisions MSE-4.06 (A)
44.		Retained backfill is 95% of maximum dry density per AASHTO T 180. (Modified Proctor) (ATM 230 - Density).	Special Provisions MSE-4.06 (A)
45.		The moisture content of backfill material prior to and during placement is uniform between 3% less and equal to optimum water content.	Special Provisions MSE-4.06 (B)
46.		Static weighted smooth surfaced rollers are used for backfill compaction (sheep-foot or vibratory rollers are not used within the limits of the soil reinforcement).	Special Provisions MSE-4.06 (A)
47.		The wall construction site is protected at all times from runoff from adjacent areas and sloped to drain away from the wall facing at the end of each shift.	Special Provisions MSE-4.06 (C)
48.		Quantlist Minimum Frequency is being followed, One per Week.	Construction Bulletin 07-01