

27693

STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

Instructions:

- 1-Fill out required sections for MSE Wall Inspector and Wall Characteristics.
- 2-Inspect the wall using the attached form. Questions that require a 'Yes' answer should be documented by noting the extent of the problem in the right most column and photo documentation. Photo documentation should consist of wall or bridge number, nature of problem, date, photo number for wall, and a size reference, which should be indicated in the photo (white board/paper). Photos taken should be placed on the Top View layout and indicated with the appropriate number. Note should be taken by the inspector that often anomalies are due to construction and should be distinguished from those that are a result of post-construction. If it is observable that they existed at the time of construction note should be taken in the space provided for drawings.
- 3- Shoot digital photos of the entire wall. This may require the use of a variety of shots and angles on each wall to cover the wall in its entirety.
- 4- Indicate Layout of MSE Wall in respect to major intersections, roadways, potential hazards, irrigation, vegetation, locations of conditions for which 'Yes' was marked, etc. in space provided below. Also Indicate approximate GPS Coordinates of Site of Interest in space provided below

Region	3	Identifying Road/Intersection	I-15 (SR 75) SE OFF RAMP

MSE WALL CHARACTERISTICS

MSE Wall at Bridge	Y <input checked="" type="radio"/> N	Bridge Number if applicable:	-	Wall Number	R-435
Surrounding Structures	none			Maximum Height of Wall (ft)	69"
Distance to Each Structure	-		One Stage, Two Stage or Block Wall		one
State Route Number	SR 75		Estimated Max Length of Wall Abutment:		140'
Approximate Mile Marker			Max Slope of Ground in front of wall:		flat
GPS Datum	WGS/84, NAD/83, or NAD/27		Max Height of wall burial line above surrounding level ground:		-

MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	40° 11' 12.79" N 111° 38' 41.39" W	Please draw rough layout of panel with approximate dimensions in space provided below:
If known, Panel or System Manufacturer		<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> 18" 8" </div>

Summary of Key Observations:

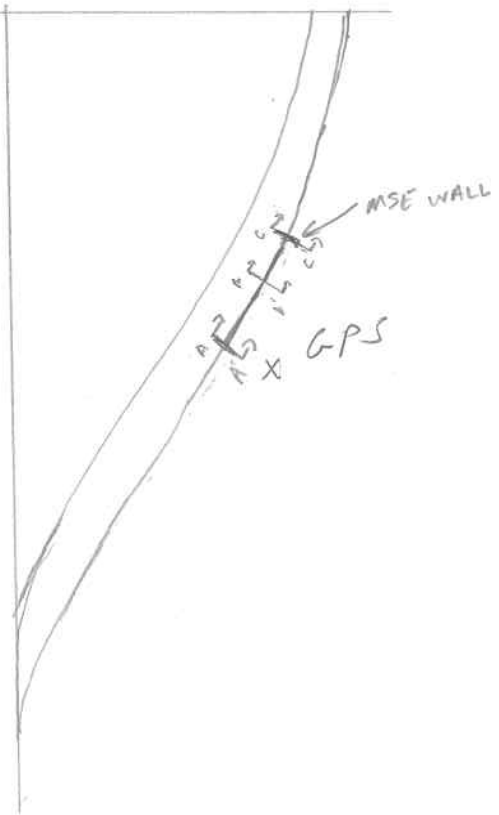
68 12.102"
3-4

Plan View/Drainage:

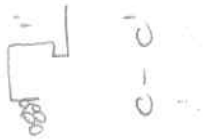


SL 75

I-15



Cross Sections:



Cross Sections:

Y	N	N/A	UKN	Required Item:	Issue Description	Measurement/Extent of Problem/Location/Photo Numbers
Y	N	N/A	UKN	16-Is there a large gap between the apron, slab and the approach pavement? (Photo 15) Often this approximation is made at the joint between the apron and the approach pavement. If the joint is not properly sealed, water can seep into the joint and cause damage to the apron and approach pavement.	16-Is there a large gap between the apron, slab and the approach pavement? (Photo 15) Often this approximation is made at the joint between the apron and the approach pavement. If the joint is not properly sealed, water can seep into the joint and cause damage to the apron and approach pavement.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	17-At the abutments, are the joints between the wall coping and the abutment coping up and tight? If so record maximum distance.	17-At the abutments, are the joints between the wall coping and the abutment coping up and tight? If so record maximum distance.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	18-Is the coping wall pulling away from pavement, roadway, median? Please record maximum displacement for wall.	18-Is the coping wall pulling away from pavement, roadway, median? Please record maximum displacement for wall.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

RISE STABILITY						
Y	N	N/A	UKN	Required Item:	Issue Description	Measurement/Extent of Problem/Location/Photo Numbers
Y	N	N/A	UKN	19-What is the location depth of leveling? (Photo Probe into wall) bounded 2 inches from wall to a maximum depth of 24 inches (24 inches is the minimum depth for MSE Wall)	19-What is the location depth of leveling? (Photo Probe into wall) bounded 2 inches from wall to a maximum depth of 24 inches (24 inches is the minimum depth for MSE Wall)	20"
Y	N	N/A	UKN	20-Is leveling and exposed?	20-Is leveling and exposed?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	21-Is there cracking in the leveling pad? If so, record maximum crack size with gage.	21-Is there cracking in the leveling pad? If so, record maximum crack size with gage.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	22-Is there a four foot backfill (or less) directly along the wall before the slope changes? (Record Width?)	22-Is there a four foot backfill (or less) directly along the wall before the slope changes? (Record Width?)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	23-Is there a slope steeper than V: L5 to H:1 in front of the wall? Please record slope and height of backfill above top of wall.	23-Is there a slope steeper than V: L5 to H:1 in front of the wall? Please record slope and height of backfill above top of wall.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	24-Is there a slope greater than V: L5 to H:1 below the wall? Please record slope and height of backfill below the wall.	24-Is there a slope greater than V: L5 to H:1 below the wall? Please record slope and height of backfill below the wall.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	25-Is there excessive degradation of panel faces?	25-Is there excessive degradation of panel faces?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

RISE METAL CORROSION						
Y	N	N/A	UKN	Required Item:	Issue Description	Measurement/Extent of Problem/Location/Photo Numbers
Y	N	N/A	UKN	26-Is there excessive corrosion on panel(s) or other exposed metal that might indicate excessive conditions?	26-Is there excessive corrosion on panel(s) or other exposed metal that might indicate excessive conditions?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	27-Are there major rust stains on the face panel? Along joints? If so, record total number.	27-Are there major rust stains on the face panel? Along joints? If so, record total number.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	28-Are any internal straps exposed? Does there appear to be corrosion on these straps? If applicable please record the total number of straps affected.	28-Are any internal straps exposed? Does there appear to be corrosion on these straps? If applicable please record the total number of straps affected.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	29-Is there a readily simple taken of exposed wall? If so, please indicate depth in inches.	29-Is there a readily simple taken of exposed wall? If so, please indicate depth in inches.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	30-Is there any indication of water penetration (soaking area, rust, exposed metal inside epoxy coating)? If so, please record the total number of panels affected.	30-Is there any indication of water penetration (soaking area, rust, exposed metal inside epoxy coating)? If so, please record the total number of panels affected.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

RISE IMPACT/COLLISION PROTECTION						
Y	N	N/A	UKN	Required Item:	Issue Description	Measurement/Extent of Problem/Location/Photo Numbers
Y	N	N/A	UKN	31-Are guardrails well protected in place at the base of the wall to protect it from potential traffic impact?	31-Are guardrails well protected in place at the base of the wall to protect it from potential traffic impact?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	32-Does it appear that the wall has been involved in an accident (replaced panel, repair dig in the wall)?	32-Does it appear that the wall has been involved in an accident (replaced panel, repair dig in the wall)?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	33-Does it appear the walls faceability and integrity has been compromised by a collision or accident?	33-Does it appear the walls faceability and integrity has been compromised by a collision or accident?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

RISE OBSTRUCTIONS IN REINFORCED CONCRETE						
Y	N	N/A	UKN	Required Item:	Issue Description	Measurement/Extent of Problem/Location/Photo Numbers
Y	N	N/A	UKN	34-Are there any obstructions in Reinforcement Geometry	34-Are there any obstructions in Reinforcement Geometry	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

RISE AS BUILT DIFFERENT FROM DESIGN						
Y	N	N/A	UKN	Required Item:	Issue Description	Measurement/Extent of Problem/Location/Photo Numbers
Y	N	N/A	UKN	35-Are there available drawings for the wall? These include type (Foundation and Layout, Design, As Built, etc.)	35-Are there available drawings for the wall? These include type (Foundation and Layout, Design, As Built, etc.)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	36-Is the layout in general accordance with drawings?	36-Is the layout in general accordance with drawings?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	37-Are the panels CFT (Cast in Place)? Does there appear to be concrete encasing in the panels?	37-Are the panels CFT (Cast in Place)? Does there appear to be concrete encasing in the panels?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	38-What OED/Item used in the construction of the wall?	38-What OED/Item used in the construction of the wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	39-Are there any structures on or near wall that were not included in initial drawings?	39-Are there any structures on or near wall that were not included in initial drawings?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	40-Are there any irrigation, utilities, or structures that are not part of the initial drawing?	40-Are there any irrigation, utilities, or structures that are not part of the initial drawing?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	41-Is there any excavation or evidence of excavation near the wall?	41-Is there any excavation or evidence of excavation near the wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	42-Has there been any change in the dynamics of the wall (additional excavation, irrigation, vegetation, etc.)?	42-Has there been any change in the dynamics of the wall (additional excavation, irrigation, vegetation, etc.)?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	43-Are there piles located in the wall (bridge abutment)?	43-Are there piles located in the wall (bridge abutment)?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /