

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		
Moosh Sch. Hwy 6		

MSE WALL CHARACTERISTICS

MSE Wall at Bridge	<input checked="" type="checkbox"/> N	Bridge Number if applicable:		Wall Number	30 F
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Surrounding Structures	
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Distance to Each Structure	
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State Route Number	
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Approximate Mile Marker	
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GPS Datum	WGS/84	NAD/83, or NAD/27
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MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	40° 43' 31.77" N 110° 34' 49.65" W
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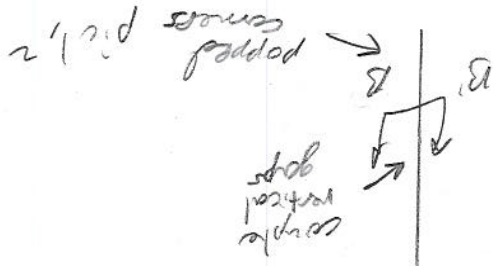
If known, Panel or System Manufacturer	
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Please draw rough layout of panel with approximate dimensions in space provided below:

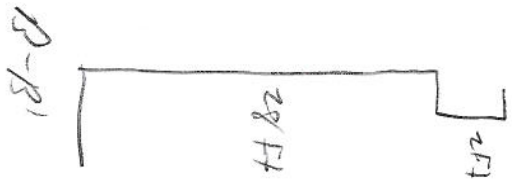
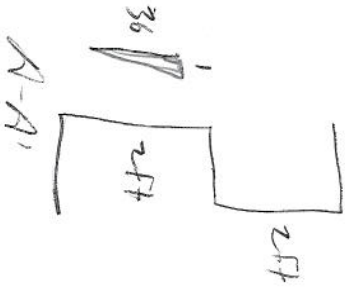
Summary of Key Observations:

Some separating of joints

Plan View/Drainage:



Cross Sections:



Cross Sections:

MSB WALL DRAINAGE

Required Issue	MSB Model	Water Inlet	MSB-Criteria	Drainage	Measurement/Eval of Problem/Action/Photo Numbers
Yes	N/A	UNSN	1-1: does an active water source near the top of the wall (for the wall near a body of water with source potential)?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	2-1: if applicable, are the earth anchors at the base of the wall blocked?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	3-1: are there water-carrying conduits through the wall?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	4-1: are there vertical drains that pass through the backfill?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	5-1: does evidence at the base of the wall or footing point (Photo 1)?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	6-1: does evidence along the wing walls?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	7-1: does any sign of water flow along the base of the wall?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	8-1: does there more than 1 foot between inflection splines and wall?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	9-1: does the backfill or fill fabric appear to be saturated?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	10-1: does vegetation growing in pond (Photo 3)?	Blocked	Clear / 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	11-1: are the deck drains and gutters at the top of the wall blocked? (Photo 14)		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	12-1: do we ever enter the wall between coping and deck (i.e. Data applicable)?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	13-1: does evidence of leakage point of fill washing through drain pipe?		/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /

MSB WALL JOINTS

Required Issue	MSB Model	Water Inlet	Joint	Measurement/Eval of Problem/Action/Photo Numbers
Yes	N/A	UNSN	1-1: Is backfill coming out of joints or over their first or backfill at the base of the wall? (Photos 2 & 3)	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-1: Is the joint wide enough to see fabric or backfill behind panels when looking into joint? (Photo 5) If yes record the approximate measurement (in feet) (Photo 5)	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-2: Are there visible signs of the fabric or backfill in areas of backfill or water leaking through wall? (Do not include additional damage to fabric)	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-3: Do the joints have a non-sufficient horizontal spacing? Are some horizontal joints larger than others? (Photo 6)	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-4: Do the joints have a non-sufficient vertical spacing? Are some vertical joints larger than others? (Photo 6)	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-5: Are the panels offset at the joint either in or out of the wall? (Photo 7) If yes record the approximate measurement.	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-6: Does the fabric appear brittle, or appear as if it has undergone excessive UV exposure?	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /

MSB WALL FINISH

Required Issue	MSB Model	Water Inlet	Wall Finish	Measurement/Eval of Problem/Action/Photo Numbers
Yes	N/A	UNSN	1-1: Are there cracks that continue vertically through adjacent panels? (Photo 8 & 10) If yes record the approximate number of panels in the wall with cracking.	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-2: Are there cracks that continue horizontally through adjacent panels? (Photo 9 & 10) If yes record the approximate number of panels in the wall with cracking.	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-3: Are the panel corners missing, cracked, or chipped from contact with an adjacent panel? If yes record the number of the wall.	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-4: Does the panel corner "pop-out" or "chip" from contact with an adjacent panel? If yes record the number of the wall.	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-5: Does the existing coping exhibit Vertical Cracks?	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-6: Are the coping and parapet loose or delaminated? If yes it may be appropriate to conduct DPOI if delamination occurs.	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-7: Is there the panel in danger of falling off? (If panel is not contact appropriate DPOI apply)	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-8: Have the panel bulging (bowing horizontally)? If yes record maximum deformation from acceptable condition (Photo 11) or bottom of the wall? Record maximum degree of tipping from vertical (Photo 11) (Record "toppling" or falling of bottom of the wall? Record maximum degree of tipping from vertical (Photo 11) (Record vertical lead and inflection area).	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /

MSB TOP OF WALL OBSERVATIONS

Required Issue	MSB Model	Water Inlet	Top Of Wall	Measurement/Eval of Problem/Action/Photo Numbers
Yes	N/A	UNSN	1-1: Is there evidence of wetness at the top of the wall (ground wetting, etc.)	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-2: Are there any open cracks in the concrete coping (not bulging)? If yes record the approximate measurement width.	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UNSN	1-3: Are there any open cracks in the concrete coping spread up? (Photo 6) If yes record the maximum width.	/ 0-250 1% 5% 10% 25% 50% 75% 90% 95% 100% /

