

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, 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.

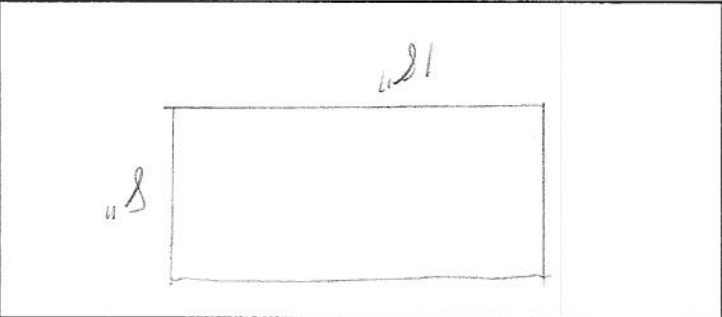
3- Shoot digital photos of the entire wall. This may require the use of a variety of shots and angles on each wall to cover the wall in its entirety.

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, Pleasant Grove
			Mesa Blvd, Pleasant Grove

MSE WALL CHARACTERISTICS

MSE Wall at Bridge	<input checked="" type="checkbox"/> Y	Bridge Number if applicable:	N
Surrounding Structures			
Distance to Each Structure			
State Route Number			
Approximate Mile Marker			
GPS Datum	WGS/84, NAD/83, or NAD/27		
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	40° 20' 59.31" N 111° 46' 4.70" W		
If known, Panel or System Manufacturer			

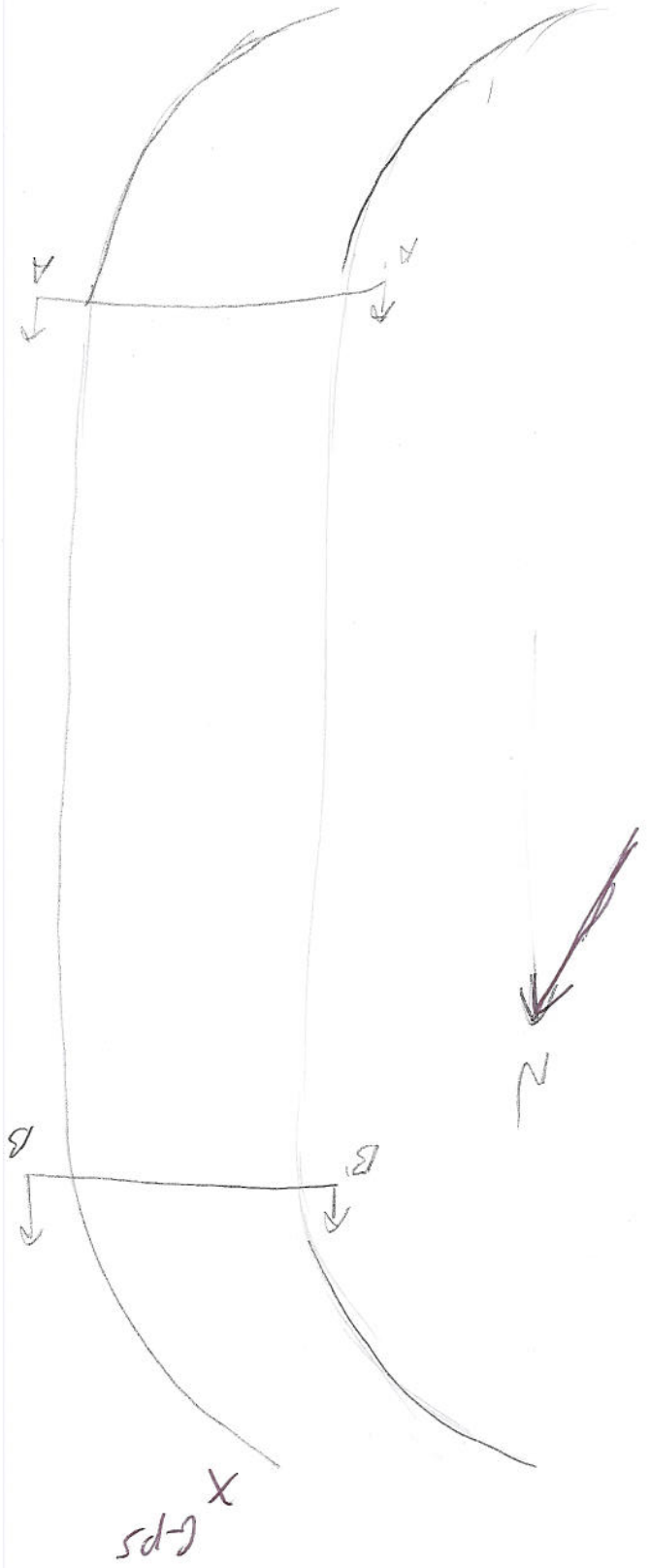


Please draw rough layout of panel with approximate dimensions in space provided below:

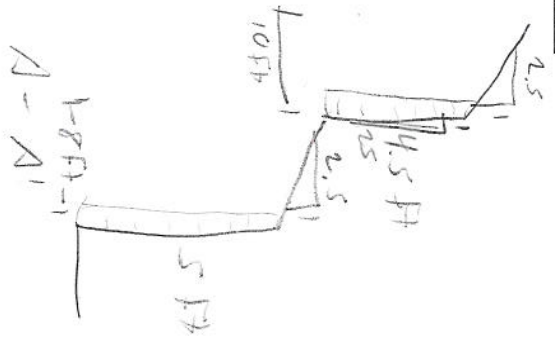
Summary of Key Observations:

Large empty space for recording key observations.

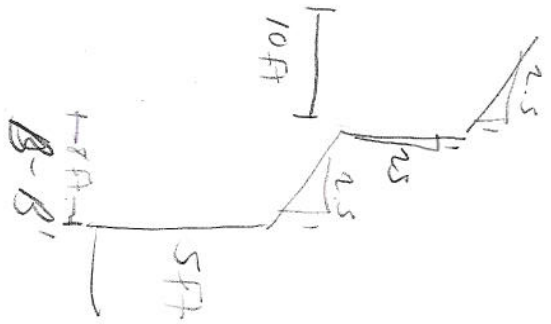
Plan View/Drainage:



Cross Sections:



Cross Sections:



NISE WALL INSULATION

Required	Yes	No	N/A	UNK	Drainage	Measurement/Extent of Problem/Action/Photo Numbers
1-14	Y	N	N/A	UNK	1-14: Does the water source near the top of the wall (in the wall near a body of water with source removed)?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
2-1	Y	N	N/A	UNK	2-1: If applicable, are the cracks located at the base of the wall blocked?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-1	Y	N	N/A	UNK	3-1: Are there voids protruding through the wall?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
4-1	Y	N	N/A	UNK	4-1: Are there voids protruding through the backfill?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
5-1	Y	N	N/A	UNK	5-1: Does evidence at the base of the wall of heaving exist? (Photo 13)	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
6-1	Y	N	N/A	UNK	6-1: Does evidence along the wing exist?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
7-1	Y	N	N/A	UNK	7-1: Are there any signs of water flow along the base of the wall?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
8-1	Y	N	N/A	UNK	8-1: Are there any signs of water flow along the base of the wall?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
9-1	Y	N	N/A	UNK	9-1: Does the backfill or joint fabric appear to be saturated?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
10-1	Y	N	N/A	UNK	10-1: Does vegetation growing in joint fabric appear to be saturated?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
11-1	Y	N	N/A	UNK	11-1: Over the deck drains and conflict at the top of the wall blocked? (Photo 14)	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
12-1	Y	N	N/A	UNK	12-1: Can water enter the wall between coping and slab (i.e., drain appropriately)?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
13-1	Y	N	N/A	UNK	13-1: Does evidence of discharge point of fill washing through drain pipe?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /

NISE WALL JOINTS

Required	Yes	No	N/A	UNK	Joint	Measurement/Extent of Problem/Action/Photo Numbers
14-1	Y	N	N/A	UNK	14-1: Is backfill coming out of joints or are there piles of backfill at the base of the wall? (Photos 2 & 3)	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
15-1	Y	N	N/A	UNK	15-1: Are the joints wide enough to see fabric or backfill material protruding from the joint? (Photo 5) If not, record the approximate width of the joint in the field notes.	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
16-1	Y	N	N/A	UNK	16-1: Are there voids visible in the joint? (Photo 3)	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
17-1	Y	N	N/A	UNK	17-1: Are there voids visible in the joint? (Photo 3)	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
18-1	Y	N	N/A	UNK	18-1: Do the joints have a non-uniform horizontal spacing? Are some horizontal joints larger than others? (Photo 6)	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
19-1	Y	N	N/A	UNK	19-1: Do the joints have a non-uniform vertical spacing? Are some vertical joints larger than others? (Photo 6)	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
20-1	Y	N	N/A	UNK	20-1: Are the joints offset at the joint either in or out of the wall? (Photo 7) If yes, record the approximate measurement.	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
21-1	Y	N	N/A	UNK	21-1: Does the fabric appear brittle, or appear as if it was subjected to UV exposure?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /

NISE WALL FINISH

Required	Yes	No	N/A	UNK	Wall Finish	Measurement/Extent of Problem/Action/Photo Numbers
22-1	Y	N	N/A	UNK	22-1: 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-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
23-1	Y	N	N/A	UNK	23-1: 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-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
24-1	Y	N	N/A	UNK	24-1: Are there panel corners "popped-off" or chipped from contact with an adjacent panel? If yes, record the number of panels.	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
25-1	Y	N	N/A	UNK	25-1: Are the panel corners missing contact with each other? If yes, record the approximate number in the wall.	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
26-1	Y	N	N/A	UNK	26-1: Are the panel corners "popped-off" or chipped from contact with an adjacent panel? If yes, record the number of panels.	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
27-1	Y	N	N/A	UNK	27-1: Does the overlying coping exhibit Differential Settlement?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
28-1	Y	N	N/A	UNK	28-1: Does the coping and parapet show or demonstrate "Voids/Other"?	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
29-1	Y	N	N/A	UNK	29-1: Are the coping and parapet loose or damaged? If yes, it may be appropriate to contact "DOT" if delamination occurs.	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
30-1	Y	N	N/A	UNK	30-1: Are the panels in danger of falling off? (If present, record extent, appropriate "DOT" region)	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
31-1	Y	N	N/A	UNK	31-1: Does the finish exhibit (beyond horizontally)? If no, record maximum deformation from acceptable (Photo 11) or (Photo 12).	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
32-1	Y	N	N/A	UNK	32-1: Does the finish exhibit (beyond horizontally)? If no, record maximum deformation from acceptable (Photo 11) or (Photo 12).	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
33-1	Y	N	N/A	UNK	33-1: Does the finish exhibit (beyond horizontally)? If no, record maximum deformation from acceptable (Photo 11) or (Photo 12).	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /

NISE TOP OF WALL OBSERVATIONS

Required	Yes	No	N/A	UNK	Top of Wall	Measurement/Extent of Problem/Action/Photo Numbers
34-1	Y	N	N/A	UNK	34-1: Does evidence of settlement at the top of the wall? (ground cracking, etc)	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
35-1	Y	N	N/A	UNK	35-1: Are there any signs of cracks in the concrete coping (not backfill)? If yes, record the approximate measurement of the cracks.	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /
36-1	Y	N	N/A	UNK	36-1: Have the construction joints in the concrete coping opened up? (Photo 9) If yes, record the measurement of the joints.	/ 0-N0 1% 5% 10% 25% 50% 75% 90% 95% 100% /

