

STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

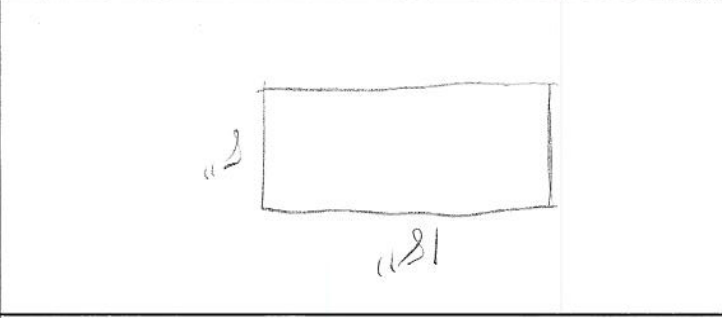
Instructions:

- 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	SW CORNER I-15 + P.G. EXIT
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MSE WALL CHARACTERISTICS

MSE Wall at Bridge	<input checked="" type="checkbox"/> Y	Bridge Number if applicable:	N-374F
Surrounding Structures		Maximum Height of Wall (ft)	10.5 ft
Distance to Each Structure		One Stage, Two Stage or Block Wall	cross slope
State Route Number		Estimated Max Length of Wall Abutment:	100 ft
Approximate Mile Marker		Max Slope of Ground in front of wall:	30 ft
GPS Datum	WGS/84, NAD/83, or NAD/27	Max Height of wall burial line above surrounding level ground:	30 ft
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	40° 20' 56.80" N 111° 46' 28.7" W		
If known, Panel or System Manufacturer			

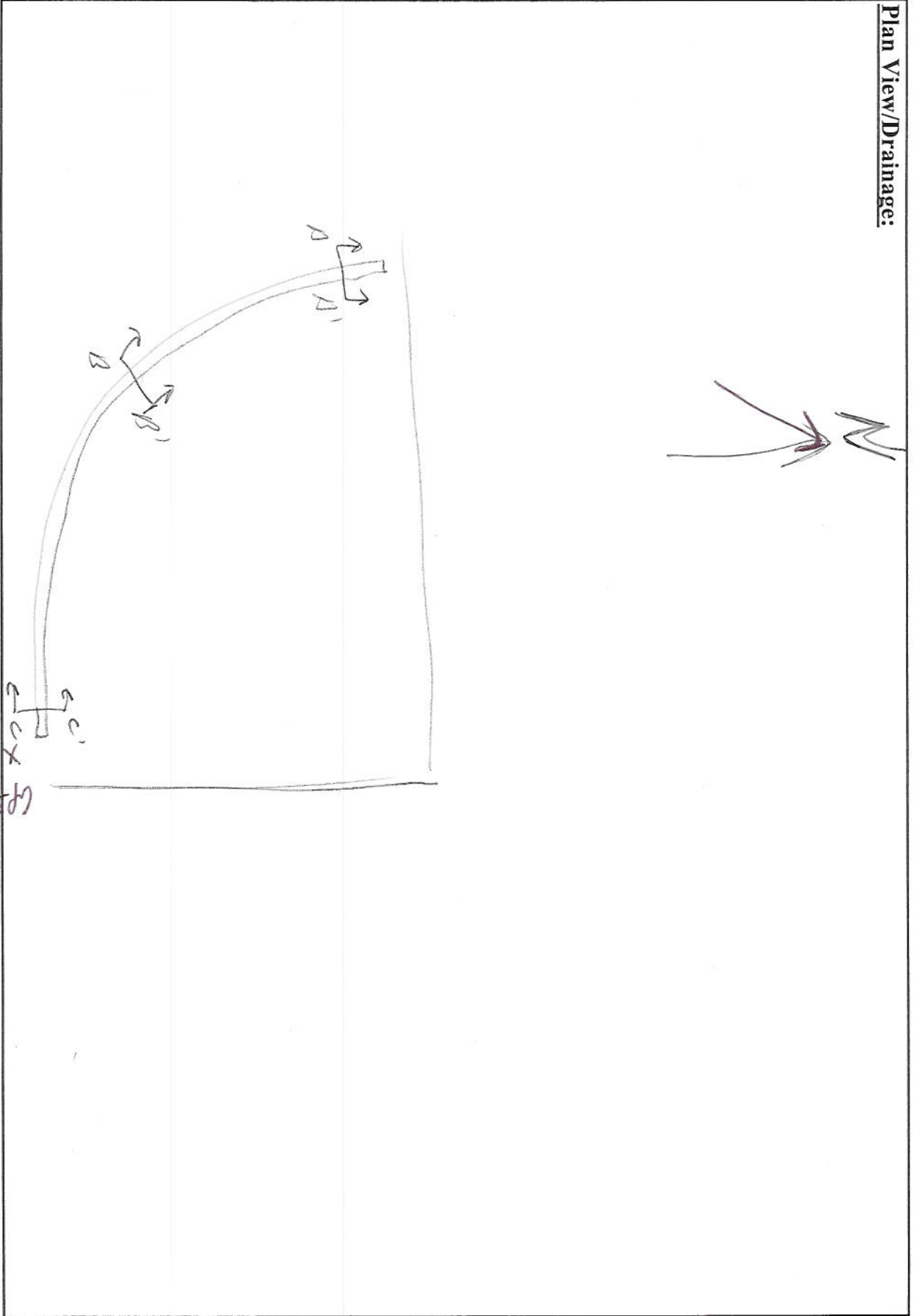


Summary of Key Observations:

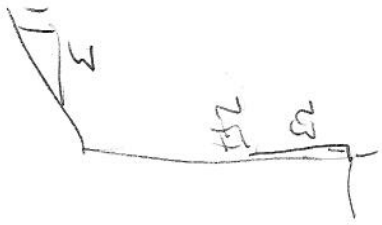
Summary of Key Observations:

128
91

Plan View/Drainage:



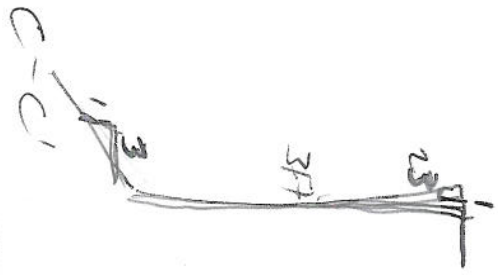
Cross Sections:



A-A



B-B



C-C

Cross Sections:

NISE WALL DRAINAGE

Required Test	Item	Location	Criteria	Pass/Fail	Remarks
Yes	N/A	URS	1-Is there an active water source near the top of the wall (e.g. water with snow ponds)?		
Y	N	URS	2-If applicable, are the catch basins at the base of the wall blocked?		
Y	N	URS	3-Are there obstructions protruding through the wall?		
Y	N	URS	4-Are there vertical drains that travel through the backfill?		
Y	N	URS	5-Is there erosion at the base of the wall or leveling pad? (Photo 12)		
Y	N	URS	6-Is there any signs of water flow along the base of the wall?		
Y	N	URS	7-Does the backfill or joint fabric appear to be saturated?		
Y	N	URS	8-Does the backfill or joint fabric appear to be saturated?		
Y	N	URS	9-Does the backfill or joint fabric appear to be saturated?		
Y	N	URS	10-Is there vegetation growing in joint fabric? (Photo 9?)		
Y	N	URS	11-After the deck drains and outlets at the top of the wall blocked? (Photo 14)		
Y	N	URS	12-Can water enter the wall between coping and deck (i.e. Drain appropriately)?		
Y	N	URS	13-Is there evidence of discharge point of fill washing through drain pipe?		

NISE WALL JOINTS

Required Test	Item	Location	Criteria	Pass/Fail	Remarks
Yes	N/A	URS	1-Is backfill coming out of joints or are there signs of backfill at the base of the wall? (Photos 1 & 2)		
Y	N	URS	2-After the joints are sealed, do you see fabric or backfill behind panels when looking into joints? (Photo 3) If yes, record the approximate number of panels in the backfill.		
Y	N	URS	3-Is there any fabric visible in the horizontal joints? (Photo 4)		
Y	N	URS	4-After there is visible fabric in the fabric? Is there evidence of backfill or water backing through joint? (See note below additional damage to fabric)		
Y	N	URS	5-Do the joints have a non-uniform horizontal spacing? Are some horizontal joints larger than others? (Photo 5)		
Y	N	URS	6-Do the joints have a non-uniform vertical spacing? Are some vertical joints larger than others? (Photo 6)		
Y	N	URS	7-Does the fabric appear brittle, or appear as if it has undergone excessive UV exposure?		

NISE WALL FINISH

Required Test	Item	Location	Criteria	Pass/Fail	Remarks
Yes	N/A	URS	1-Is there evidence of cracking in the panels?		
Y	N	URS	2-After there are cracks that continue vertically through adjacent panels (Photos 9 & 10)? If yes, record the approximate number of panels in the wall with cracking.		
Y	N	URS	3-After there are cracks that continue horizontally through adjacent panels (Photos 9 & 10)? If yes, record the approximate number of panels in the wall with cracking.		
Y	N	URS	4-After the panel corners "popped off" or deloped from contact with an adjacent panel? If yes, record the number in the wall.		
Y	N	URS	5-Does the panel corners "popped off" or deloped from contact with an adjacent panel? If yes, record the number in the wall.		
Y	N	URS	6-Does the panel corners "popped off" or deloped from contact with an adjacent panel? If yes, record the number in the wall.		
Y	N	URS	7-After the coping and parapet loose or dislodging? If yes, it may be appropriate to contact LIDOT if delamination severe enough.		
Y	N	URS	8-After the panel is "chipping/breaking/breaking"? If so, record maximum deterioration from accessible coping to leveling pad. (Photo 11)		
Y	N	URS	9-After the panel is "chipping/breaking/breaking"? If so, record maximum deterioration from accessible coping to leveling pad. (Photo 11)		
Y	N	URS	10-After the panel is "chipping/breaking/breaking"? If so, record maximum deterioration from accessible coping to leveling pad. (Photo 11)		

NISE TOP OF WALL OBSERVATIONS

Required Test	Item	Location	Criteria	Pass/Fail	Remarks
Yes	N/A	URS	1-Is there evidence of settlement at the top of the wall? (Ground cracking, etc.)		
Y	N	URS	2-After there are any open cracks in the concrete coping (not bedding)? If yes, record the approximate number of panels in the wall with cracking.		
Y	N	URS	3-Is there any evidence of settlement in the concrete coping area? (Photo 6) If yes, record the maximum joint width.		

