

STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

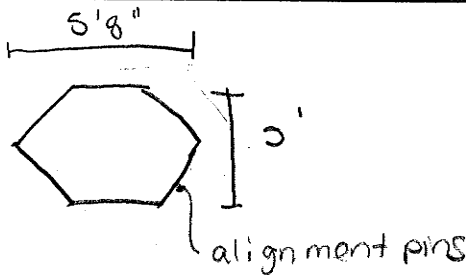
Instructions:

- 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

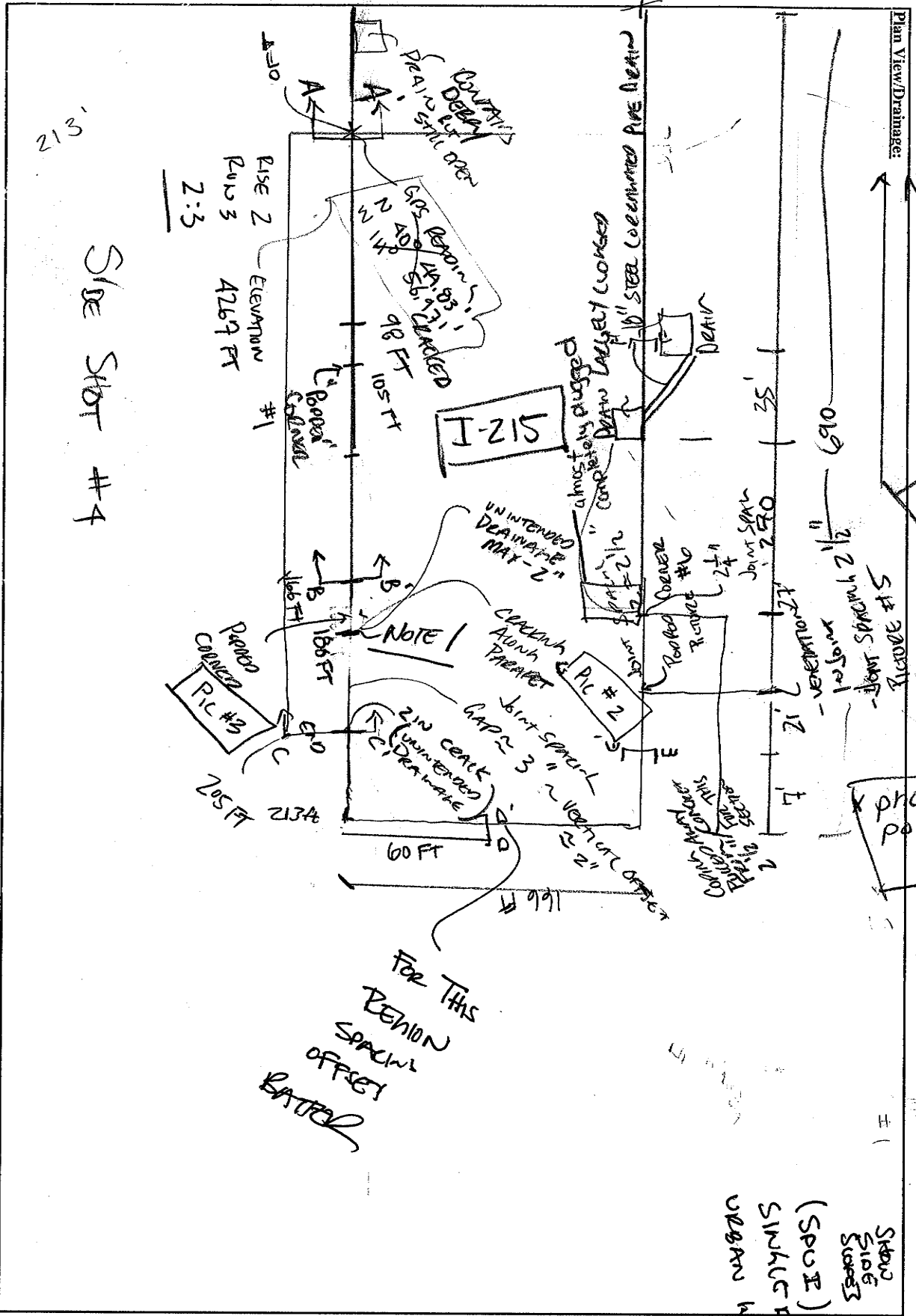
Inspector Information

Inspection Date	7/18/07	Names Of Inspectors	Holly Griffin, Ryan Maw
Region	1	Identifying Road/Intersection	I-215 and California

MSE WALL CHARACTERISTICS

MSE Wall at Bridge	(Y) N	Bridge Number if applicable:		Wall Number	R-146
Surrounding Structures	none			Maximum Height of Wall (ft)	25
Distance to Each Structure				One Stage, Two Stage or Block Wall	one
State Route Number	I-215			Estimated Max Length of Wall Abutment:	650 ft
Approximate Mile Marker				Max Slope of Ground in front of wall:	2:1
GPS Datum	WGS/84, NAD/83, or NAD/27			Max Height of wall burial line above surrounding level ground:	0
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	N 40° 44.484'	Please draw rough layout of panel with approximate dimensions in space provided below. 			
	W 111° 56.971'				
If Known, Panel or System Manufacturer	reinforced earth				

Summary of Key Observations:



213

Side Shot #4

FOR THIS REGION SPACE OFFSET BATTER

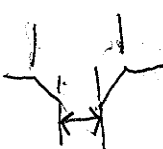
STAND SIDE SURVEY (SPOI) SIMULTANEOUS URBAN INTERSECTIONS

Station Point at center of observation

Plan View/Drainage:

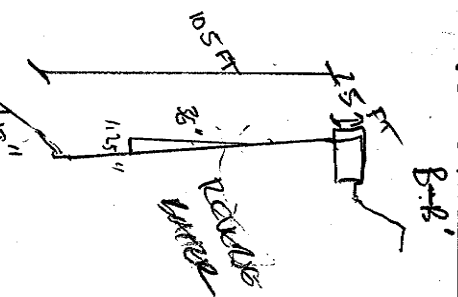
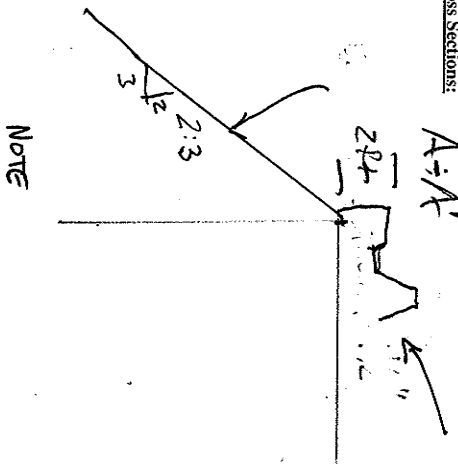
146 photo #10 photo point #5

photo point #3



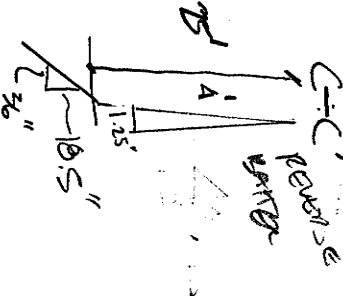
Cross Sections:

INDICATE JERKY BARRIER OR ATTACHMENT TO CURB

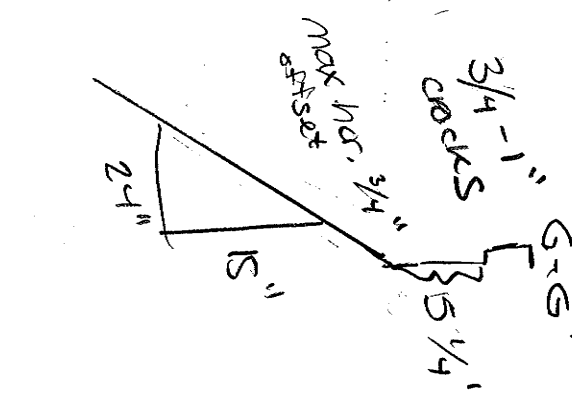
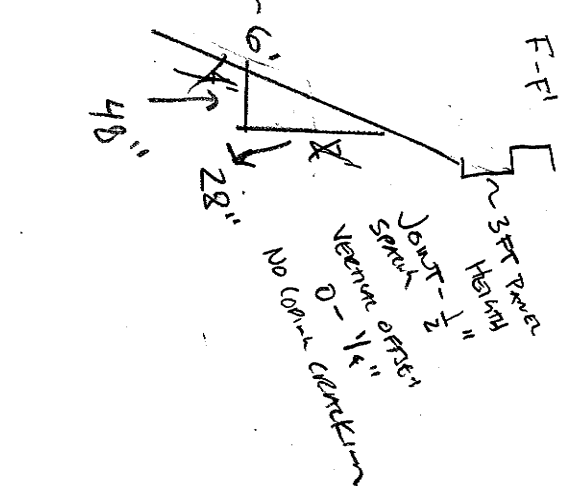
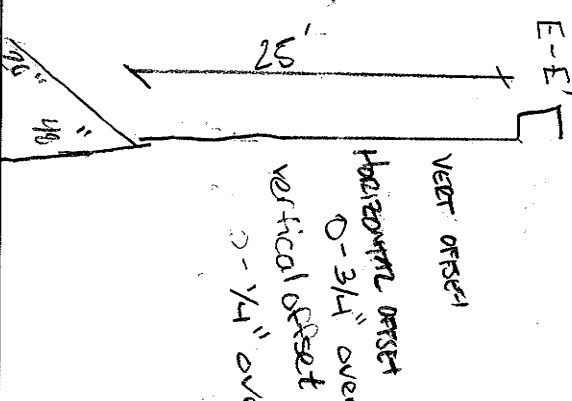
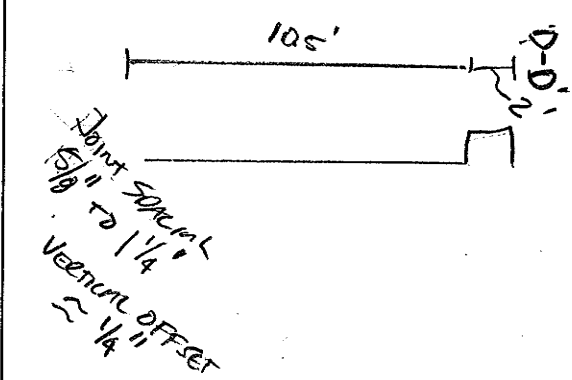


SPACING OF PANELS 1 TO 1.5" HORIZONTAL DISPLACEMENT 0-0.75"

NOTE 1: AS WALL APPROACHES BRIDGE ACCESS, WENTER HORIZONTAL DISPLACEMENT EXISTS BETWEEN PANELS (BOUNDARY OF PANELS).



Cross Sections:



MSE WALL DRAINAGE			MSE WALL JOINTS		
Requirement	Yes	No	Measurement/Extent of Problem/Location/Photo Numbers	Clear	Blocked
12-1 Drainage: 1b. Are there any active water sources near the toe of the wall (i.e. the wall near a body of water, roof pond)?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 2c. If applicable, are the catch basins at the base of the wall blocked?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 3a. Are there outlets penetrating through the wall?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 4. Are there vertical drains that extend through the backfill?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 5. Is there erosion at the base of the wall or footing base? (Photo 12)	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 6. Is there erosion along the wing wall?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 7. Are there any signs of water flow along the base of the wall?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 8. Is there less than 14 feet between irrigation sprinklers and wall?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 9. Does the backfill or joint fabric appear to be saturated?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 10. Is there vegetation growing in panel joints (Photo 8)?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 11. Are the back drains and outlets at the top of the wall blocked? (Photo 14)	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 12. Can water enter the wall between coping and slab (i.e. Does it spray)?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
2-1 Drainage: 13. Is there evidence of fill washing through drain pipes?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
MSE WALL JOINTS					
Requirement	Yes	No	Measurement/Extent of Problem/Location/Photo Numbers		
1-1a. Backfill coming out of joints or are there piles of backfill at the base of the wall? (Photos 2 & 3)	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
1-1b. Are the joints wide enough to see fabric or backfill behind panels which looking this joint? (Photo 5) If approximate number of panels in the wall with evidence of problem is noted.	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
1-1c. Are the joints wider than the fabric? Is there evidence of backfill at water table through joint? (Do not include additional drainage to fabric)	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
1-1d. Do the joints have a non-uniform horizontal spacing? Are some horizontal joints larger/wider than others? (Photo 6)	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
1-1e. Do the joints have a non-uniform vertical spacing? Are some vertical joints larger/wider than others? (Photo 6)	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
1-1f. Do the joints have a non-uniform vertical spacing? Are some vertical joints larger/wider than others? (Photo 6)	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
1-1g. Does the mesh effect in the joint differ in or out of the wall? (Photo 7) If yes, record the approximate maximum effect.	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
1-1h. Does the fabric appear brittle, or appear as if it has undergone excessive UV exposure?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
MSE WALL JOINTS					
Requirement	Yes	No	Measurement/Extent of Problem/Location/Photo Numbers		
12-2 Wall Finishing: 12. Are the panels "Full-Up"? Is there excessive cracking in the panels?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-2 Wall Finishing: 13. Are there cracks that continue vertically through adjacent panels (Photos 9 & 10)? If yes, record the approximate number of panels in the wall with evidence of problem.	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-2 Wall Finishing: 14. Are there cracks that continue horizontally through adjacent panels (Photos 9 & 10)? If yes, record the approximate number of panels in the wall with evidence of problem.	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-2 Wall Finishing: 15. Are the panel corners making contact with each other? If yes, record the approximate number in the wall.	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-2 Wall Finishing: 16. Are the panel corners "interlocked" or clipped from contact with an adjacent panel? If yes, record the number in the wall.	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-2 Wall Finishing: 17. Does the wall exhibit "Vertical Offset"?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-2 Wall Finishing: 18. Does the wall exhibit "Vertical Offset"?	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-2 Wall Finishing: 19. Are the coping and parapet loose or detaching? If yes, it may be appropriate to estimate UDOT if detachment occurs.	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-2 Wall Finishing: 20. Are the panels in danger of falling off? (If potential exist contact appropriate UDOT - explain)	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-2 Wall Finishing: 21. Does the wall exhibit "Horizontal Offset" if so, record maximum dimension from accessible wall? (Photo 13)	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-2 Wall Finishing: 22. Do the joints at the top of the wall (record maximum degree of lifting from slab and wing wall and affected area).	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
MSE WALL JOINTS					
Requirement	Yes	No	Measurement/Extent of Problem/Location/Photo Numbers		
12-3 Top of Wall: 23. Is there evidence of settlement at the top of the wall? (movement causing, etc)	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-3 Top of Wall: 24. Are there any water marks in the concrete coping (not handling)? If yes, record the approximate number of panels with water marks.	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-3 Top of Wall: 25. Have the construction joints in the coping coping spaced up? (Photo 6). If yes, record the number of joints with.	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
12-3 Top of Wall: 26. Is there a gap gap between the approach slab and the approach pavement? (Photo 15) Other disjunctions a bumping condition as the approach is correct. Record the approximate maximum gap size.	Y	N/A	UNSN	/ D-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	

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Photo 8
12 on 14 SE + NE Diskod

12 on NW
0-1/2"
0-1/2"
0-3/4"

3' on NW
REMOVE BATHER H-1.25 v3
3/8
4"

