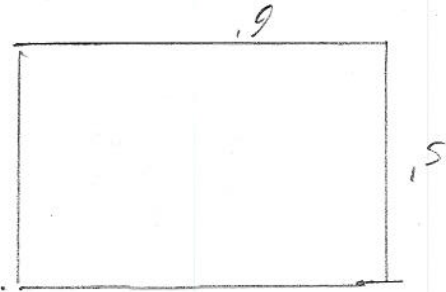


Summary of Key Observations:
 Worst of the four
~~separately copying~~ from abutment
 - cracking panels



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

MSE Wall at Bridge		<input checked="" type="checkbox"/> Y	N	Bridge Number if applicable:	Wall Number	R-387-B
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° 15' 27.27" N 110° 35' 10.77" W				
If known, Panel or System Manufacturer						

MSE WALL CHARACTERISTICS

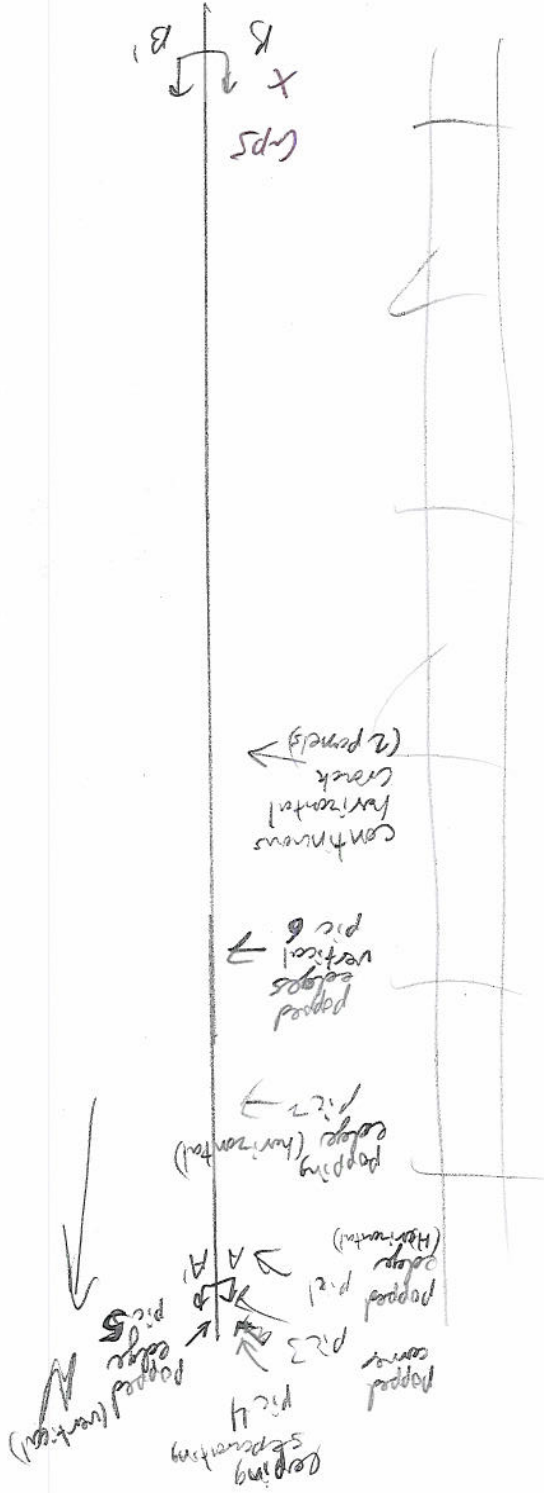
Region	3	Identifying Road/Intersection	Moore St, Hwy 6
--------	---	-------------------------------	-----------------

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.

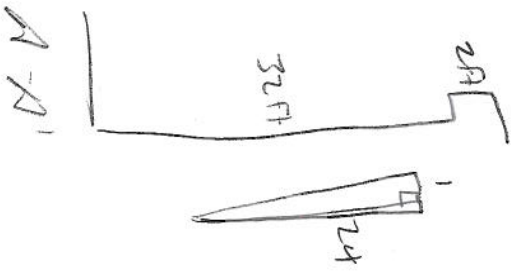
STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

Plan View/Drainage:



Cross Sections:



Cross Sections:

NISE WALL DRAINAGE

Required	Yes	No	NA	UNKN	Drainage	Measurement/Eval of Problem/Action/Photo Numbers
Y	N	N	UNKN	UNKN	1) Is there an active water source near the toe of the wall (in the wall near a body of water with snow present)?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	2) If applicable, are the outlets located at the base of the wall blocked?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	3) Are there outlets protruding through the wall?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	4) Are there vertical drains that extend through the backfill?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	5) Is there evidence at the base of the wall of freezing pipes? (Photo 12)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	6) Is there evidence along the wing wall?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	7) Are there any signs of water flow along the base of the wall?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	8) Is there more than 1 ft between impingement splitters and walls?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	9) Does the backfill or joint drain appear to be saturated?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	10) Is there vegetation growing in joint drains? (Photo 8)	Blocked
Y	N	N	UNKN	UNKN	11) Are the deck drains and conduits at the top of the wall blocked? (Photo 14)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	12) Can water enter the wall between coping and slabs (i.e. Overlap)? (Photo 15)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	13) Is there evidence of discharge point of fill washing through drain pipes?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /

NISE WALL JOINTS

Required	Yes	No	NA	UNKN	Joint	Measurement/Eval of Problem/Action/Photo Numbers
Y	N	N	UNKN	UNKN	1) Are backfill contact joints or are there joints of backfill at the base of the wall? (Photos 2 & 3)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	2) Are the joints wide enough to see fabric or backfill behind panels when looking (see photo 5) if yes record the approximate maximum joint width in inches	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	3) Do exposed backfill cracks in the horizontal joint? (Photo 3)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	4) Have there been signs of water leaking through joints? (Do not include signs of water leaking from the top of the wall.)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	5) Are the joints between a non-uniform vertical spacing? Are some vertical joints larger than others? (Photo 6)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	6) Are the joints between a non-uniform vertical spacing? Are some vertical joints larger than others? (Photo 6)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	7) Does the panel affect the joint either in or out of the wall? (Photo 7) If yes record the approximate maximum offset.	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	8) Does the drain appear to be, or appear as if it has undergone, UV exposure?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /

NISE WALL FINISH

Required	Yes	No	NA	UNKN	Wall Finish	Measurement/Eval of Problem/Action/Photo Numbers
Y	N	N	UNKN	UNKN	1) Is there evidence of delamination or scaling? If yes record the approximate number of panels in the wall with delamination.	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	2) Are there cracks that continue vertically through the concrete panel? (Photo 9 & 10) If yes record the approximate number of panels in the wall with cracking.	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	3) 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.	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	4) Are the panel corners "prepped-off" or clipped from contact with an adjacent panel? If yes record the number in the wall.	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	5) Does the crack spacing suggest Differential Settlement?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	6) Does the existing coping exhibit Vertical Offset?	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	7) Are the coping and masonry loose or delaminated? If yes (it may be appropriate to contact DDOT if delamination severe exist).	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	8) Are the panels in danger of falling off? (If provided evidence contact appropriate DDOT engineer).	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	9) Are the panels bulging (bowing horizontally)? If so, record maximum deflection from acceptable coping to leveling pad. (Photo 11)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	10) Are there signs of water flow at the top or bottom of the wall? Record maximum degree of seeping from at least one vertical joint. (Photo 13)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /

NISE TOP OF WALL OBSERVATIONS

Required	Yes	No	NA	UNKN	Top of Wall	Measurement/Eval of Problem/Action/Photo Numbers
Y	N	N	UNKN	UNKN	1) Is there evidence of settlement at the top of the wall? (movement cracking, etc)	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	2) Are there any open cracks in the concrete coping (see detailing)? If yes record the approximate maximum crack width.	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N	UNKN	UNKN	3) Is there any delamination or scaling at the top of the wall? If yes record the maximum joint width.	/ 0.5h 1% 5% 10% 25% 50% 75% 90% 95% 100% /

- NO picture, not visible with camera

7

pic #4

Y	N/A	URSN	124: Is there a large rock behind the proposed slab and proposed pavement (Photo 11) Other side	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	127: At the abutment, how do the joints between the wall coping and the abutment extend up/through? If not record maximum distance.	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	131: Is the coping wall pulling away from pavement roadway? Please record maximum displacement for wall.	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/

NSR STABILITY

Required Topic: NSR STRUCTURE															
Y	N/A	URSN	39: What is the location depth of leveling pad? Found One Probe hole not located 2 inches from wall to a maximum depth of 24 inches (24 inches is the maximum depth for NSR Wall)	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	40: Is leveling pad exposed?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	41: Is there cracking in the leveling pad? If so, record maximum crack size with figure.	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	42: Is there a four foot bench (level slope) directly along the wall before the slope changes (Record Width)?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	43: Is there a slope deeper than V:1.5 to H:1 in front of the wall? Please record slope and height of backfill above top of wall.	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	44: Is there a slope greater than V:1.5 to H:1 below the wall? Please record slope and height of backfill below the wall.	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	45: Is there excessive degradation of frost face?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/

NSR METAL CORROSION

Required Topic: NSR METAL CORROSION															
Y	N/A	URSN	46: Is there excessive corrosion on guardrail or other exposed metal that might indicate concrete condition?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	47: Are there major rust stains on the face panel? (Along joint) If so, record wall number.	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	48: Are any internal steps exposed? Does there appear to be corrosion on these steps? If applicable please record the wall number of steps exposed.	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	49: What is the maximum width of exposed wall? If so, please indicate depth in inches.	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	50: Is there any indication of water corrosion (cracking, bare, rust, exposed metal, faded epoxy coating)? If so, please record the total number of panels affected.	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/

NSR IMPACT COLLISION PROTECTION

Required Topic: NSR IMPACT COLLISION PROTECTION															
Y	N/A	URSN	51: Are guardrails well protected in place at the base of the wall to prevent it from becoming buried behind?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	52: Does it appear that the wall has been involved in an accident (upheld panel, minor damage to the wall)?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	53: Does it appear the wall functionality and integrity has been compromised by a collision or accident?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/

NSR OBSTRUCTIONS IN REINFORCEMENT CONCRETE

Required Topic: NSR OBSTRUCTIONS IN REINFORCEMENT CONCRETE															
Y	N/A	URSN	54: Are there some wall angles (<90°)	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/

NSR AS BUILT DIFFERENT FROM DESIGN

Required Topic: NSR AS BUILT DIFFERENT FROM DESIGN															
Y	N/A	URSN	55: Are there available drawings for the wall from before type (Station and Layer, Design, As Built, etc.)	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	56: Is the layout in general accordance with drawings?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	57: Are there any structures or near wall that were not included in initial drawings?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	58: Was CPT used in the construction of the wall?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	59: Are there any structures or near wall that were not included in initial drawings?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	60: Are there any intrusions, utilities, or obstructions that are not part of the initial drawings?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	61: Have there been any excavations or evidence of excavations near the wall?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	62: Have local property owners changed the dynamics of the wall (additional structures, irrigation, vegetation, etc.)?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N/A	URSN	63: Are there plants located in the wall (bridge abutment)?	/	0.50	1%	5%	10%	25%	50%	75%	90%	95%	100%	/