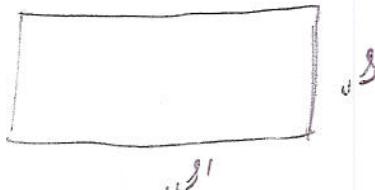
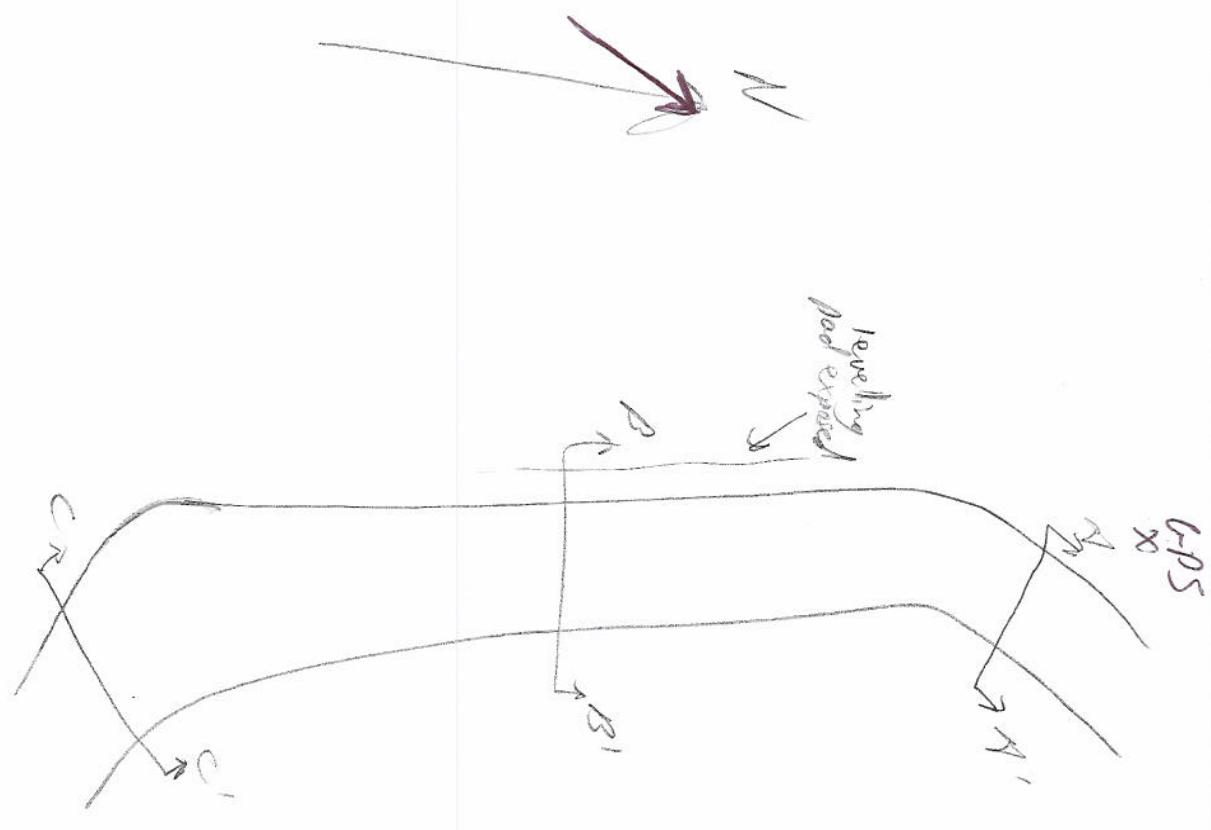
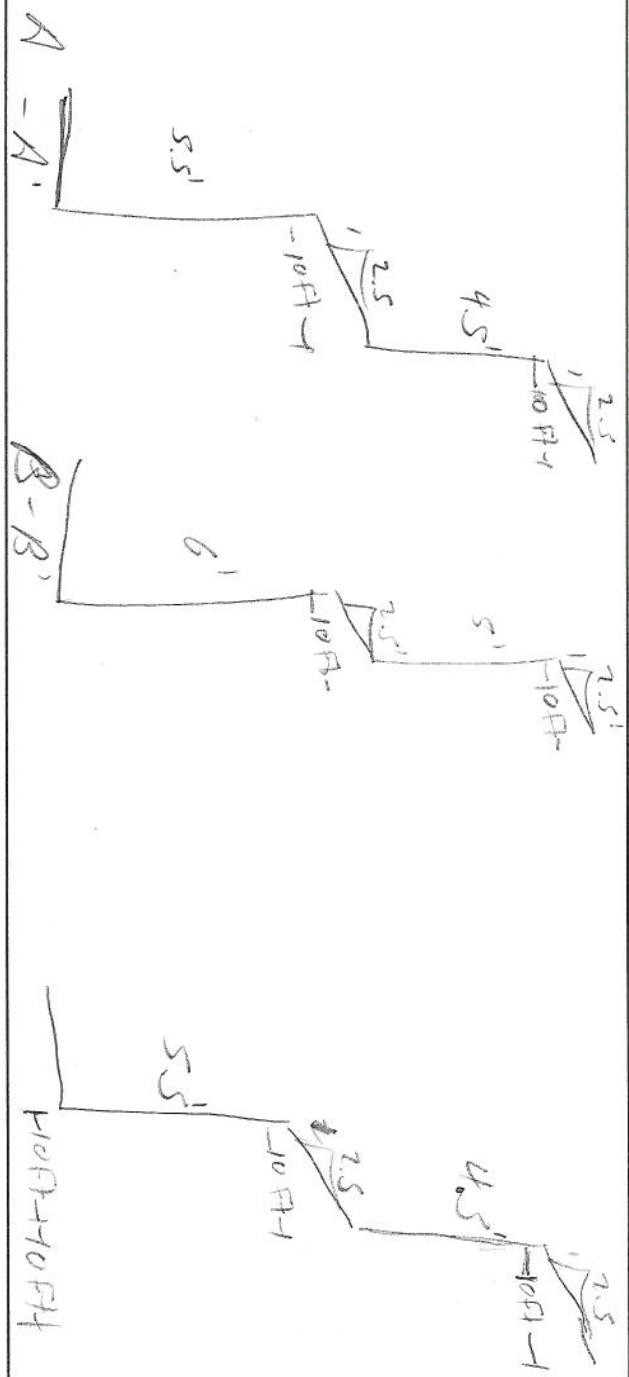


STATE OF UTAH MSE WALL INSPECTION FORM			
Instructions:			
1-Fill out required sections for MSE Wall Inspector and Wall Characteristics.			
2-Inspect the wall using the attached form. Questions that require a "Yes" answer should be documented by noting the extent of the problem in the right most column and photo documentation. Photo documentation should consist of wall 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-Include layout of MSE Wall in respect to major intersections, roadways, potential hazards, irregularities, vegetation, location, locations of conditions for which "Yes" was marked, etc. in space provided below.			
Coordinate layout of MSE Wall in respect to major intersections, roadways, potential hazards, irregularities, vegetation, location, locations of conditions for which "Yes" was marked, etc. in space provided below. Also indicate approximate GPS coordinates of Site of Intersections in space provided below.			
MSE WALL CHARACTERISTICS			
Region	3	Identifying Road/Intersection	E-15 & P.C. Ext East 52nd
MSE Wall # Bridge	(Y) N	Bridge Number if applicable:	WALL NUMBER A-394 EAO
Surrounding Structures		Maximum Height of Wall (ft)	6 ft
Distance to Each Structure		One Side, Two Stage or Block Wall	over 50 feet
Site Route Number		Estimated Max Length of Wall Above:	280
Approximate Mile Marker		Max Slope of Ground in front of wall:	2.5%
GPS Datum	WGS/84, NAD/83, or NAD/27	Max Height of wall behind line of ground level grounds:	0
MSE Wall GPS Coordinates (Location of MSE Wall in plan view)	40°21'0.78" N 114°46'40" W		
If known, Panel or System Manufacturer			
Summary of Key Observations:			
 <p>Please draw rough layout of panel with approximate dimensions in space provided below.</p>			

Plan View/Drainage:



Cross Sections:



Cross Sections:

Required Tools: Nylex Multi-Wire Resistive GDS Camera						
NISE WALL DRAINAGE						
Required Test:			Measurement/Extent of Problem/Location/Photo Numbers			
	No.	No.	UNSN	Drainage		
Y	<input checked="" type="checkbox"/>	N/A	UNSN	1-A) Is there an active water source near the toe of the wall (i.e. wall near a body of water with water percolating)?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	2) If applicable, are the cracks below at the base of the wall blocked?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	3) Are there cracks penetrating through the wall?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	4) Are there vertical drains that travel through the backfill?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
C	<input checked="" type="checkbox"/>	N/A	UNSN	5) Is there erosion at the base of the wall or levelling pads? (Points 12)	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
C	<input checked="" type="checkbox"/>	N/A	UNSN	6) Is there erosion along the wing wall?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
C	<input checked="" type="checkbox"/>	N/A	UNSN	7) Are there any signs of water flow along the base of the wall?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
C	<input checked="" type="checkbox"/>	N/A	UNSN	8) Is there less than 14 feet between irrigation sprinklers and wall?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
C	<input checked="" type="checkbox"/>	N/A	UNSN	9) Does the backfill or joint fabric appear to be saturated?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
C	<input checked="" type="checkbox"/>	N/A	UNSN	10) Is there vegetation growing in pond joints? (Points 9)?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
C	<input checked="" type="checkbox"/>	N/A	UNSN	11) Are the deck drains and outlets at the top of the wall blocked? (Points 14)	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
C	<input checked="" type="checkbox"/>	N/A	UNSN	12) Can water enter the wall between coping and slab (i.e. Drainage epoxies/patching)?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
C	<input checked="" type="checkbox"/>	N/A	UNSN	13) Is there evidence of discharge points or fill-in piping through drain pipes?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Required Test: Long Lasting Concrete Joint Change						
NISE WALL JOINTS						
Required Test:			Measurement/Extent of Problem/Location/Photo Numbers			
	No.	No.	UNSN	Joint		
Y	<input checked="" type="checkbox"/>	N/A	UNSN	14) Are the joints wide enough to see three piles of backfill at the base of the wall? (Figures 2 & 3)?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	15) Are the joints too wide enough to see backfill behind joints when looking into joints? (Points 5)?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	16) Are joints too narrow to see backfill behind joints? (Points 6)?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	17) Are there cracks that continue horizontally through adjacent joints? (Points 9 & 10)? If yes, record the location, additional damage to joints?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	18) Are the joints loose & non-uniform between vertical sections? Are your vertical joints larger/more than others? (Points 6)?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	19) Are the joints loose & non-uniform vertical spacing size? Are your vertical joints larger/more than others? (Points 7)? If yes, record the approximate distance.	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	20) Are the joints off set at the joints either in or out of the wall? (Points 7)? If yes, record the approximate distance.	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	21) Does the joints appear brittle, or appear as if it has undergone excessive UV exposure?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
NISE WALL FACING						
Required Test:			Measurement/Extent of Problem/Location/Photo Numbers			
	No.	No.	UNSN	Wall Facing		
Y	<input checked="" type="checkbox"/>	N/A	UNSN	22) Are the panels tilted up? Is there excessive cracking in the panels?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	23) Are there cracks that continue vertically through adjacent panels? (Points 9 & 10)? If yes, record the location.	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	24) Are there cracks that continue horizontally through adjacent joints? (Points 9 & 10)? If yes, record the location.	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	25) Are the panels connecting correctly with each other? If yes, record the approximate number in the wall.	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	26) Are the panels correct? Proprietary or off-the-shelf from contract with an adjacent panel? If yes, record the number in the wall.	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	27) Does facing require a legal Differential Settlement?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	28) Does the existing coping exhibit Verified Defect?	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	29) Are the coping and panels loose or detaching? If yes, it may be appropriate to contact UDOT if detachment seems extreme.	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	30) Are the panels in danger of falling off? (Proprietary panels contract appropriate UDOT region).	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	31) Are the panels tilting? (Proprietary panels contract appropriate UDOT region). If yes, record maximum deflection from acceptable coping as minimum deflection. (Points 11)	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	32) Are the panels being pulled up or off of the wall? (Proprietary panels contract appropriate UDOT region).	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
NISE TOP OF WALL OBSERVATIONS						
Required Test:			Measurement/Extent of Problem/Location/Photo Numbers			
	No.	No.	UNSN	Top Of Wall		
Y	<input checked="" type="checkbox"/>	N/A	UNSN	33) Is there evidence of settlement at the top of the wall (e.g. movement cracking, etc.)	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	34) Are there any open cracks in the concrete coping (not baseline)? If yes record the approximate movement crack width.	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	
Y	<input checked="" type="checkbox"/>	N/A	UNSN	35) Are the construction joints in the concrete coping spaced out? (Points 6)? If yes, record the maximum joint width.	/ 0-5% 1% 5% 10% 25% 50% 75% 90% 95% 100% /	

Required Test: Sheet GFO-Fence				NISE STABILITY										
				Measurement/Extent of Problem/Location/Photo Numbers										
Yes	No	N/A	UNK	Structural Integrity										
				/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /	
Y	N	N/A	UNK	39.What is the bottom depth of a U-bolt or bolted joint? (Point 15) Often this produces a bulging condition at the top of the joint. Record the approximate maximum gap size.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	40.At the shank, has the joint between the tie wall coping and the abutment opened up significantly? Please record maximum distance.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	41.Is the coping wall pulling away from movement/tensioning section? Please record maximum displacement for wall?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
NISE METAL CORROSION														
Required Test: NISE Metal Corrosion/UFB/Tie Wall Tie Rods				Measurement/Extent of Problem/Location/Photo Numbers										
Yes	No	N/A	UNK	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /	
Y	N	N/A	UNK	42.Is there evidence of corrosion on girders, or other exposed metal that might indicate corrosion or damage?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	43.Are there major rust stains on the face of the wall? Along joints? If no, record total number.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	44.Are any internal areas exposed? Does this appear to be corrosion on these areas? If applicable please record the total number of areas affected.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	45.Was a visibility survey taken of exposed steel? If so, please indicate depth in inches before the wall.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	46.Is there any indication of rebar corrosion or swelling near rust, exposed metal, acidic spray coating? If so, please record the total number of areas affected.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
NISE IMPACT/COLLISION PROTECTION														
Required Test: Impact CPS				Measurement/Extent of Problem/Location/Photo Numbers										
Yes	No	N/A	UNK	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /	
Y	N	N/A	UNK	51.Are guardrails/wall protection in place at the base of the wall (or protect it from potential traffic impact)?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	52.Does it appear that the wall has been involved in an accident (implied punch, recent dig in the wall)?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	53.Does it appear the wall functionality and integrity has been compromised by collision or accident?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
NISE OBSTRUCTIONS IN REINFORCEMENT GROUT LINE														
Required Test: Obstruction				Measurement/Extent of Problem/Location/Photo Numbers										
Yes	No	N/A	UNK	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /	
Y	N	N/A	UNK	54.Are there any wall angles (<90°)?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
NISE AS BUILT DIFFERENT FROM DESIGN														
Required Test: Drawing/Construction				Measurement/Extent of Problem/Location/Photo Numbers										
Yes	No	N/A	UNK	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /	
Y	N	N/A	UNK	55.Are there variable thickness for the wall? Please indicate type (situation and layout, Design A/B/C, etc.)	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	56.If the design is in general accordance with drawing?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	57.Are the punch/CU (Caulk In Place) Dots shown apparent to be excessive cracking in the punch?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	58.Was GFO-Fence used in the construction of the wall?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	59.Are there any shanks on the base wall that were not included in initial drawing?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	60.Are there any irregularities, offsets, or anomalies that are not part of the initial drawing?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	61.Have there been any renovations or evidence of excavation near the wall?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	62.Has land and property owners changed the dynamics of the wall (addition, structures, irrigation, vegetation, etc.)?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	S	N/A	UNK	63.Are there obstacles to the wall (fencing, structures)?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100% /