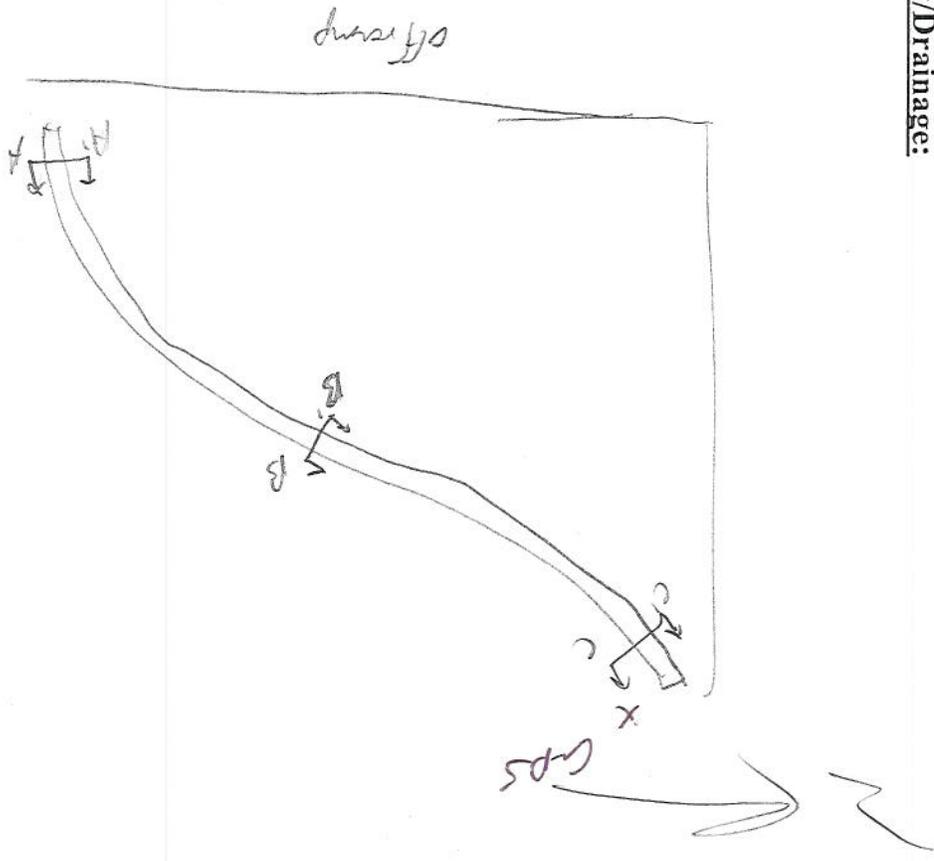


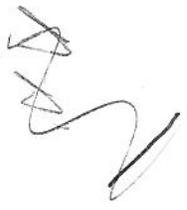
24
12/16/12
4
3.91
2
2

| 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 | BE CORN IHS, PC. EXT |
| MSE WALL CHARACTERISTICS | |
| MSE Wall at Bridge | Y |
| Bridge Number if applicable: | (N) |
| Wall Number | R-374-C |
| 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°21.14' N 111°46'3.74" W |
| If known, Panel or System Manufacturer | |
| <p>Summary of Key Observations:</p> <p>a few little plants growing through the block gaps probably a result of a lot of watering.</p> | |
| | |
| Please draw rough layout of panel with approximate dimensions in space provided below: | |
| Maximum Height of Wall (ft) | 14.5 ft |
| One Stage, Two Stage or Block Wall | One Stage |
| Estimated Max Length of Wall Abutment: | 135 ft |
| Max Slope of Ground in front of wall: | 0 |
| Max Height of wall burial line above surrounding level ground: | 15 ft |

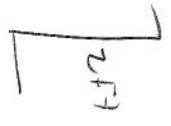
Plan View/Drainage:



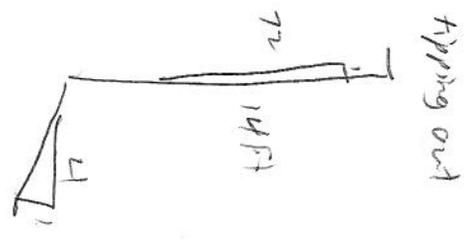
Cross Sections:



A-A'



B-B'



C-C'



Cross Sections:

NISE WALL DRAINAGE

| Required Insult | Yes | No | NA | UNS | Problem Location/Photo Numbers | Measurement/Extent of Problem Location/Photo Numbers |
|---|-----|----|-----|-----|--------------------------------|--|
| 1. Is there an water water source near the base of the wall (in the wall near a body of water with source potential)? | Y | N | N/A | UNS | Drainage | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 2. If applicable, are the catch basins at the base of the wall blocked? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 3. Are there catch basins protruding through the wall? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 4. Are there vertical drains that travel through the backfill? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 5. Is there evidence at the base of the wall of leveling sand? (Photo 12) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 6. Is there evidence along the wing wall? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 7. Are there any signs of water flow along the base of the wall? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 8. Is there less than 14 feet between impingement gradations and wall? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 9. Does the backfill or joint fabric appear to be saturated? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 10. Is there vegetation growing in joint fabric? (Photo 8) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 11. Does the deck fabric and outside at the top of the wall blockade? (Photo 14) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 12. Can water enter the wall between coping and slab (i.e. Check appropriate)? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 13. Is there evidence at discharge point of fill washing through drain pipe? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |

NISE WALL JOINTS

| Required Insult | Yes | No | NA | UNS | Problem Location/Photo Numbers | Measurement/Extent of Problem Location/Photo Numbers |
|--|-----|----|-----|-----|--------------------------------|--|
| 1. Is the backfill coming out of joints or are there joints blocked in the base of the wall? (Photo 2 & 3) | Y | N | N/A | UNS | Joint | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 2. Do the joints wide enough to see debris or backfill behind panels when looking into joint? (Photo 3) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 3. Is there evidence of backfill visible in the wall joint? (Photo 4) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 4. Are there signs of water in the debris? Is there evidence of backfill or water leaking through here? (Do not include additional damage to debris) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 5. Do the joints have a non-uniform horizontal spacing? Are some horizontal joints larger than others? (Photo 6) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 6. Do the joints have a non-uniform vertical spacing? Are some vertical joints larger than others? (Photo 6) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 7. Do the panels offset at the joints either in or out of the wall? (Photo 7) If yes, record the approximate measurement of the offset. | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 8. Does the fabric appear brittle, or appear as if it has undergone excessive UV exposure? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |

NISE WALL FINISH

| Required Insult | Yes | No | NA | UNS | Problem Location/Photo Numbers | Measurement/Extent of Problem Location/Photo Numbers |
|---|-----|----|-----|-----|--------------------------------|--|
| 1. Are there 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 | N/A | UNS | Wall Finishing | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 2. Are there 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 | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 3. Are the panel corners meeting contact with each other? If yes, record the approximate number in the wall. | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 4. Do the panel corners "pop-out" or "chip-off" from contact with an adjacent panel? If yes, record the number in the wall. | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 5. Does each paneling suggest Differential Settlement? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 6. Does the existing coping exhibit Vertical Offset? | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 7. Are the panels in danger of falling off? (If present, indicate contact appropriate: UDOT region) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 8. Are the panels behind (backing horizontally)? If so, record maximum deflection from accessible coping to backing and (Photo 11) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 9. Is there any evidence of water flow along the base of the wall? (Record maximum degree of seepage from adjacent wing vertical level and affected area) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |

NISE TOP OF WALL OBSERVATIONS

| Required Insult | Yes | No | NA | UNS | Problem Location/Photo Numbers | Measurement/Extent of Problem Location/Photo Numbers |
|--|-----|----|-----|-----|--------------------------------|--|
| 1. Is there evidence of settlement at the top of the wall? (pavement cracking, etc) | Y | N | N/A | UNS | Top Of Wall | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 2. Are there any open cracks in the concrete coping (not hairline)? If yes, record the approximate number of panels in the wall with cracking. | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| 3. Is there any evidence of water flow along the base of the wall? (Record maximum degree of seepage from adjacent joint width) | Y | N | N/A | UNS | | / 0-30 1% 5% 10% 25% 50% 75% 90% 95% 100% / |

