

* See Section 2.2

construction layout*

STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

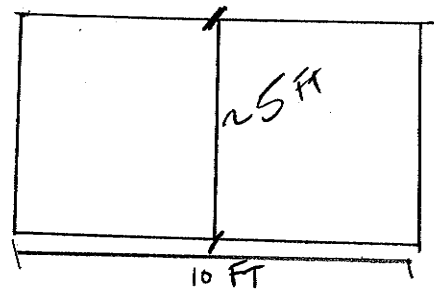
Instructions:

- 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	8/15/07	Names Of Inspectors	Ryan Maw, Holly Griffin
Region	2		

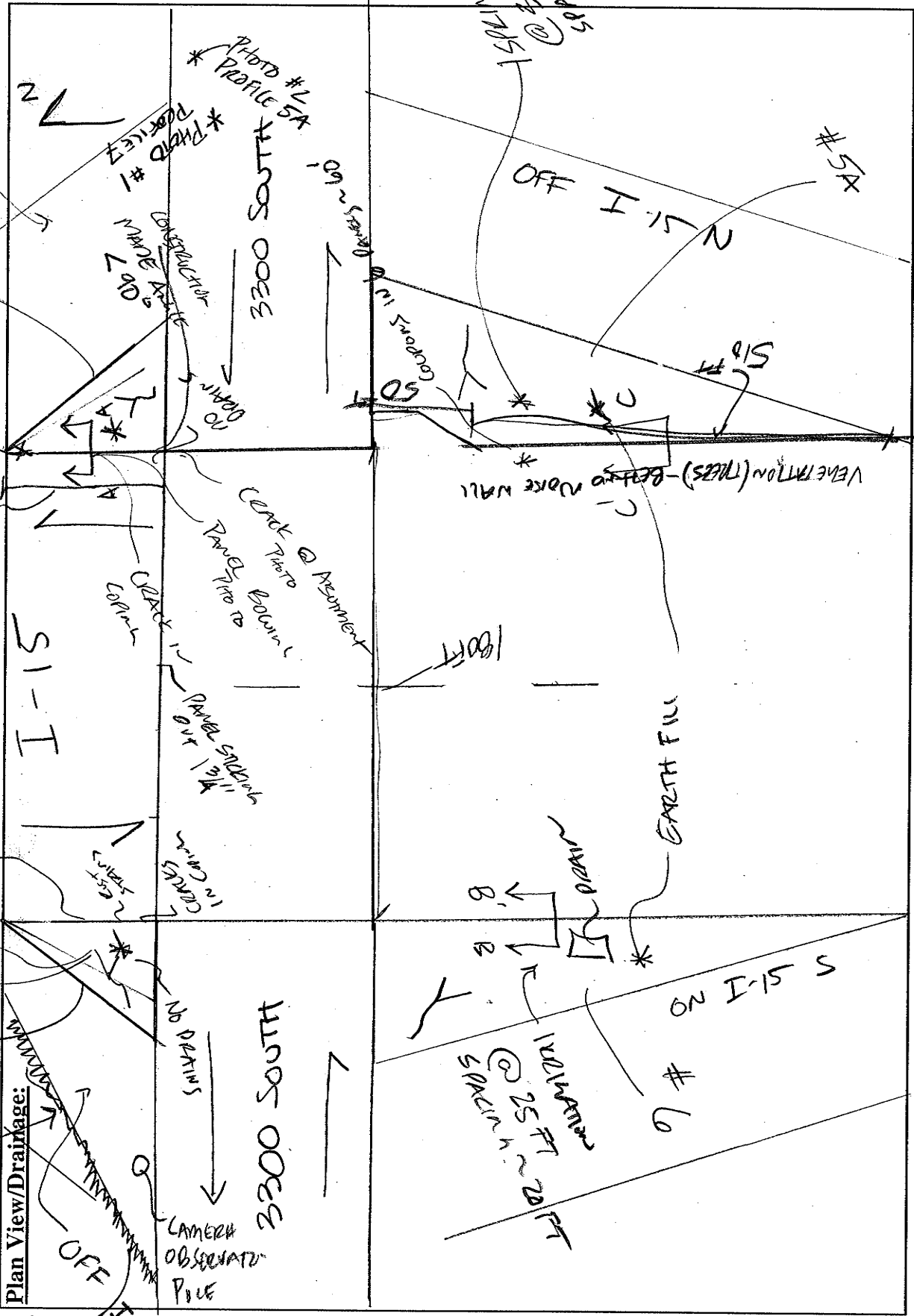
MSE WALL CHARACTERISTICS

MSE Wall at Bridge	Y	N	Bridge Number if applicable:	F-019N	Wall Number	1-346 OVERPASS
Surrounding Structures	noise wall (246-3)			Maximum Height of Wall (ft)	30 FT	
Distance to Each Structure	5 FT			One Stage, Two Stage or Block Wall	TWO STAGE	
State Route Number	I-15			Estimated Max Length of Wall Abutment:	560 FT	
Approximate Mile Marker	296			Max Slope of Ground in front of wall:	4:1 V:1	
GPS Datum	WGS/84, NAD/83, or NAD/27			Max Height of wall burial line above surrounding level ground:	2-10 FT	
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	N 42° 02' 21"			Please draw rough layout of panel with approximate dimensions in space provided below:		
	W 111° 52' 120"					
If known, Panel or System Manufacturer	UKN					

Summary of Key Observations:

CONTAINS WALL #'S

5A, 6, 12, 7, 8
 WALL BROKEN INTO A NORTH, SOUTH, & OVERPASS SECTION. - SEE SECTION 2.2 CONSTRUCTION LAYOUT



* CONSULT CONSTRUCTION LAYOUT Z.O.Z *

Plan View/Drainage:

ON I-15 N

I-15

OFF I-15 N

ON I-15 S

3300 SOUTH

3300 SOUTH

CONCRETE
EARTH FILL
VEGETATION
CAMERA OBSERVATION POLE
CRACK IN CONCRETE
CANT PHOTO @ ASSESSMENT
SLOPE
NO DRINKING WATER
PHOTO #12
PHOTO #8
PHOTO #1
PHOTO #12 PROFILE 5A
PHOTO #1 PROFILE 5A

MAX HT-15 FT
LEAKAGE

#12

#8

#1

#5A

#6

5' SPACING @ 25 FT
SLOPE

VEGETATION @ 25 FT ~ 20 FT
SLOPE

1:1

EARTH FILL

VEGETATION (TREES) - BERRY NOISE WALL

CAMERA OBSERVATION POLE

NO DRINKING WATER

CRACK IN CONCRETE

CANT PHOTO @ ASSESSMENT

CONCRETE

EARTH FILL

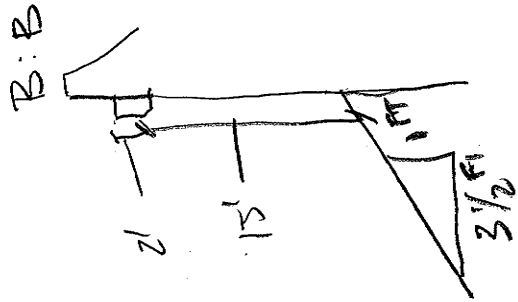
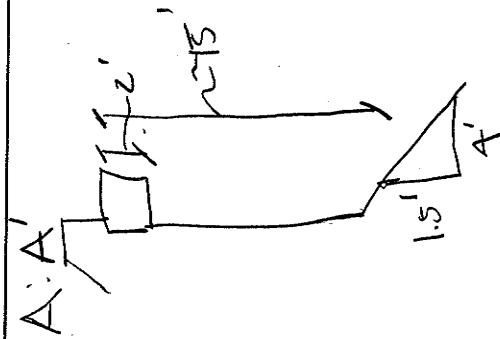
PHOTO #12 PROFILE 5A
PHOTO #1 PROFILE 5A

2

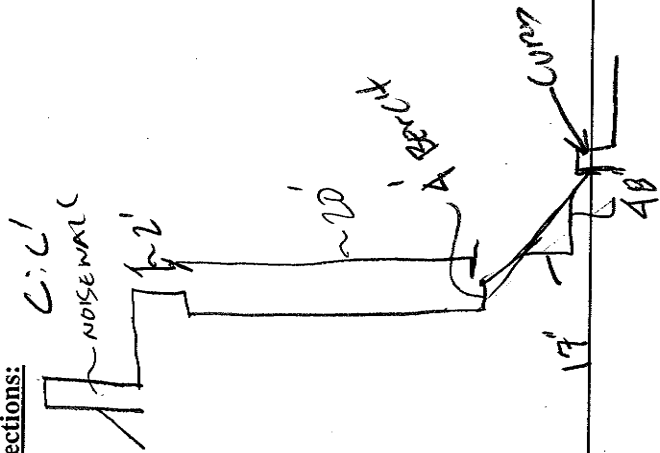
OFF I-15 S

Plan View/Drainage:

Cross Sections:



Cross Sections:



✓

MSE WALL DRAINAGE

Required Tools: Nylon Mallet, Water Bottle-GPS-Camera

Yes	No	UKN	Drainage	Measurement/Extent of Problem/Location/Photo Numbers
Y	N	UKN	1-Is there an active water source near the toe of the wall (is the wall near a body of water with scour potential)?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	2-If applicable, are the catch basins at the base of the wall blocked?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	3-Are there culverts protruding through the wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	4-Are there vertical drains that travel through the backfill?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	5-Is there erosion at the base of the wall or leveling pad? (Photo 12)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	6-Is there erosion along the wing walls?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	7-Are there any signs of water flow along the base of the wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	8-Is there less than 14 feet between irrigation sprinklers and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	9-Does the backfill or joint fabric appear to be saturated?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	10-Is there vegetation growing in panel joints (Photo 8)?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	11-Are the deck drains and outlets at the top of the wall blocked? (Photo 14)	Blocked Partial Clear / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	12-Can water enter the wall between coping and slab (i.e., Drain appropriately)?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	13-Is there evidence at discharge point of fill washing through drain pipes?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

MSE WALL JOINTS

Required Tools: Long Level-String-Camera-GPS

Yes	No	UKN	Joints	Measurement/Extent of Problem/Location/Photo Numbers
Y	N	UKN	14-Is backfill coming out of joints or are there piles of backfill at the base of the wall? (Pictures 2 & 3)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	15-Are the joints wide enough to see fabric or backfill behind panels when looking into joints? (Photo 5) If yes, record the approximate maximum joint width in inches.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	16-Is exposed backfill visible in the horizontal joints? (Photo 4)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	17-Are there visible tears in the fabric? Is there evidence of backfill or water leaking through tear? (Do not induce additional damage to fabric)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	18-Do the joints have a non-uniform horizontal spacing/size? Are some horizontal joints larger/smaller than others? (Photo 6)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	19-Do the joints have a non-uniform vertical spacing/size? Are some vertical joints larger/smaller than others? (Photo 6)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	20-Are the panels offset at the joints either in or out of the wall? (Photo 7) If yes, record the approximate maximum offset.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	UKN	21-Does the fabric appear brittle, or appear as if it has undergone excessive UV exposure?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

1/2" - 3/4"
1/2" - 3/4"
MAX 2"

MSE METAL CORROSION

Required Tools: Nylon Mallet-Camera-GPS-Zip Lock Bag-Trowel		Metal Corrosion		Measurement/Extent of Problem/Location/Photo Numbers									
Yes	No	N/A	UKN	0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%

MSE IMPACT/COLLISION PROTECTION

Required Tools: Camera-GPS		Impact/Collision		Measurement/Extent of Problem/Location/Photo Numbers									
Yes	No	N/A	UKN	0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%

MSE OBSTRUCTIONS IN REINFORCEMENT GEOMETRY

Required Tools: Drawings		Obstructions in Reinforcement Geometry		Measurement/Extent of Problem/Location/Photo Numbers									
Yes	No	N/A	UKN	0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%

MSE AS BUILT DIFFERENT FROM DESIGN

Required Tools: Drawings-Camera-GPS		MSE as built different than design		Measurement/Extent of Problem/Location/Photo Numbers									
Yes	No	N/A	UKN	0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%
Y	N	N/A	UKN	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%

Due to CONSTRUCTION

