

Department of Environmental Quality
Northwest Region

700 NE Multnomah Street, Suite 600 Portland, OR 97232 (503) 229-5263 FAX (503) 229-6945 TTY 711

October 11, 2023

Jeremy Morris, PW Director Klamath County 305 Main St Klamath Falls, OR 97601

RE: 2023 Annual Inspection for Roads

North Ridge Estates Superfund Site

ECSI No. 6376

Dear Jeremy Morris:

The Oregon Department of Environmental Quality completed an annual inspection of the protective caps which include North Ridge Drive and Hunter Ridge Road during the week of July 3, 2023. Protective caps are also present in the right-of-way along Old Fort Road and Scott Valley Road primarily as road shoulders and stormwater ditches. The right-of-ways included within the superfund site are highlighted on Figure 1. Enclosed for your information is a summary of the inspection.

Actions Required.

- 1. The gullies located at Scott Valley Road and Old Fort Road as well as along Old Fort Road by the apartments just past Hunters Ridge Road need to be repaired and armored as needed to prevent continued erosion. These conditions were previously noted in 2022.
- 2. Many of the culverts were partially to mostly obstructed and need to be cleared to contain stormwater runoff and prevent damage to the protective caps.

Please provide DEQ with a schedule for when these maintenance actions will be performed.

If you have any questions, please contact me at 503-860-3943, or via email at Katie. Daugherty@deq.oregon.gov.

Sincerely,

Katie Daugherty, R.G.

Katie DAUGE

Project Manager

NWR Cleanup Section

Enclosures

Digging at the North Ridge Estates Superfund Site

What do I need to do or know?

- 1) Perform all other normal permitting and utility locates as you would for any other project.
- 2) Be familiar with the types of protectives caps at North Ridge Estates. The protective cap is intended to prevent people's exposure to any remaining asbestoscontaminated materials, including asbestos fibers in soil. Protective caps include:
 - A two-foot layer of clean soil with vegetation
 - Asphalt and concrete surfaces, such as garage concrete floor or basement concrete floor
 - Boulders
 - Black liners installed below covered porches and in home crawl spaces
 - Orange liners below the soil cap
- 3) Review the terms of the Easement and Equitable Servitude (EES) document recorded on the deed of your property. Determine if your planned activity is within the area covered by restrictions outlined in the EES. Some properties on the edge of the Superfund site only have a portion of the property restricted. *General rule of thumb: if the area was excavated during the Superfund Cleanup, the area is restricted.* Can't find your EES? Contact the Oregon Department of Environmental Quality (DEQ) project manager and they will email you a copy.
- 4) All activities or uses that could jeopardize the function of the protective cap, are prohibited without prior written approval from the DEQ.
- 5) Follow the steps below for your specific activity.

I want to dig less than two feet - what are the required steps?

- 1) Minor activities are allowed within the *soil protective cap*, such as installing fence posts, planting, or other activities that go no deeper than two feet below the ground surface without prior written approval from DEQ.
- 2) You must fully restore the cap to the surface after the activities are completed.
- 3) Stop immediately and call the DEQ project manager if you see an orange liner. *No matter the depth!* You are entering an asbestos contamination zone and risk exposure to asbestos if you continue.



Example of Orange Liner. 2018. Installing marker barrier consisting of rock base and orange liner on Parcel B prior to covering with clean soil.



Example of Black Liner. 2018. Black liner with rock to hold in place on Parcel A.

I want to dig deeper than two feet, dig below a black or orange liner, dig through asphalt or concrete, or move boulders on my property - what are the required steps?

1) Fill out the *North Ridge Estates Earthwork Notification and Reporting Form* and submit this form to the DEQ project manager. Can't find the form? Contact the project manager and they will email you a copy.

The project manager will review the information provided in the form and work with you to determine the conditions under which your work may be performed.

If your work will breach the cap, you must, at your own expense, use an Oregon-licensed asbestos abatement company during any action that may disturb a contaminated area. Any excavated material, including soil, will be required to be disposed at a landfill. If the liner is damaged during work, you must replace it at your expense.

2) Once work is complete, fill out the reporting section of the *North Ridge Estates Earthwork Notification and Reporting Form* and return to the DEQ project manager.



Cleanup Program

700 NE Multnomah St.,

Suite 600

Portland, OR 97232 Phone: 503-860-3943

800-452-4011 Fax: 503-229-6124 Katie.Daugherty@deq.orego

n.gov

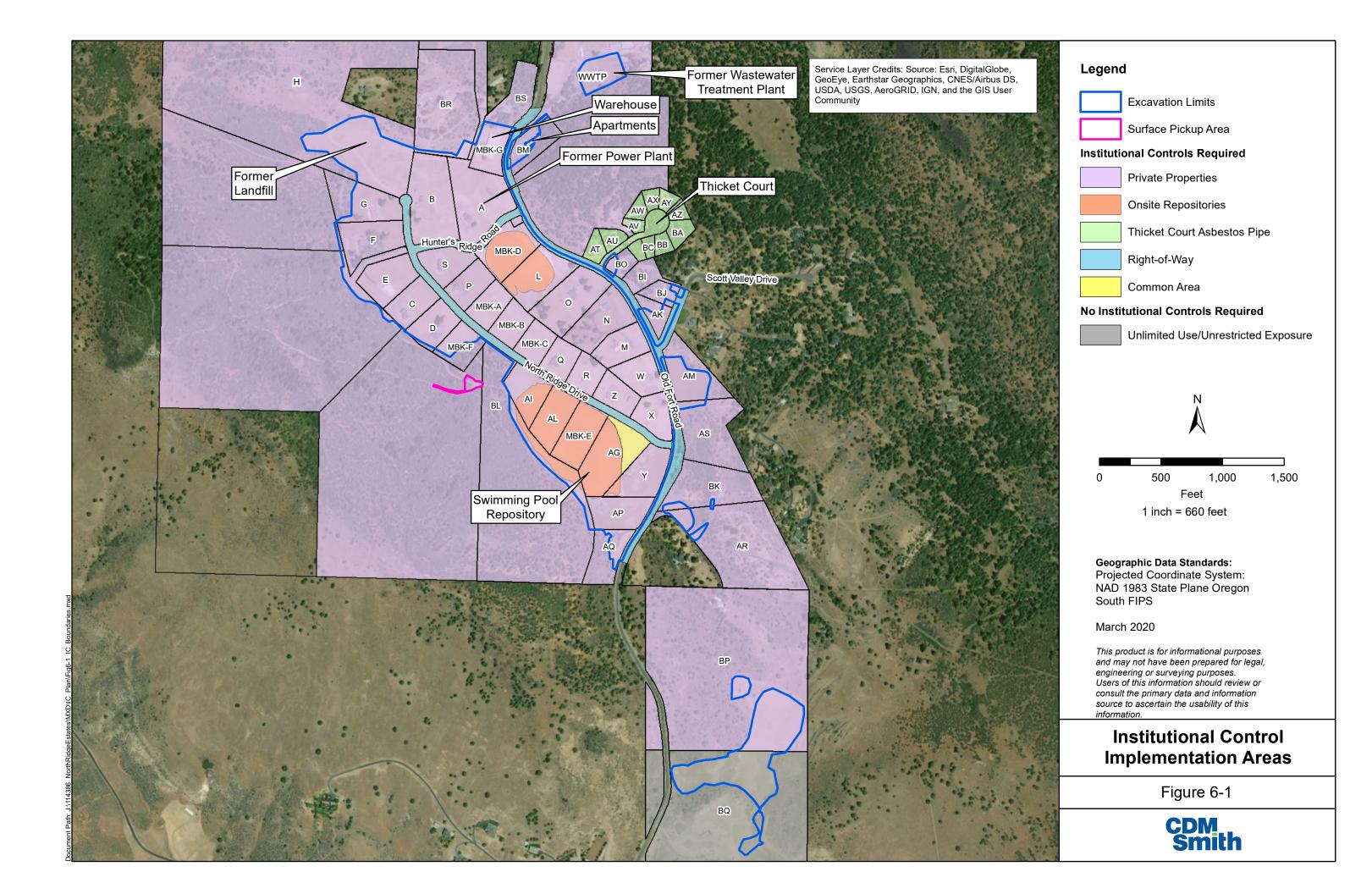
Contact: Katie Daugherty

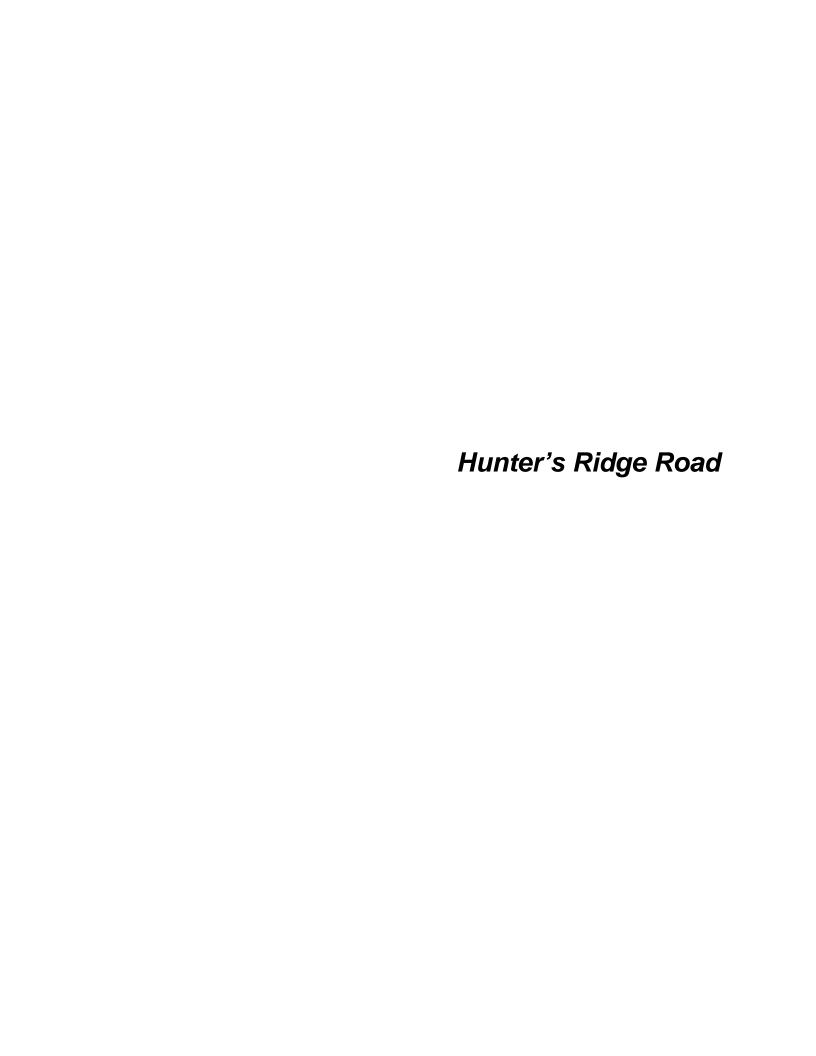
www.oregon.gov/DEQ

DEQ is a leader in restoring, maintaining and enhancing the quality of Oregon's air, land and water.

Alternative formats

DEQ can provide documents in an alternate format or in a language other than English upon request. Call DEQ at 800-452-4011 or email deqinfo@deq.oregon.gov



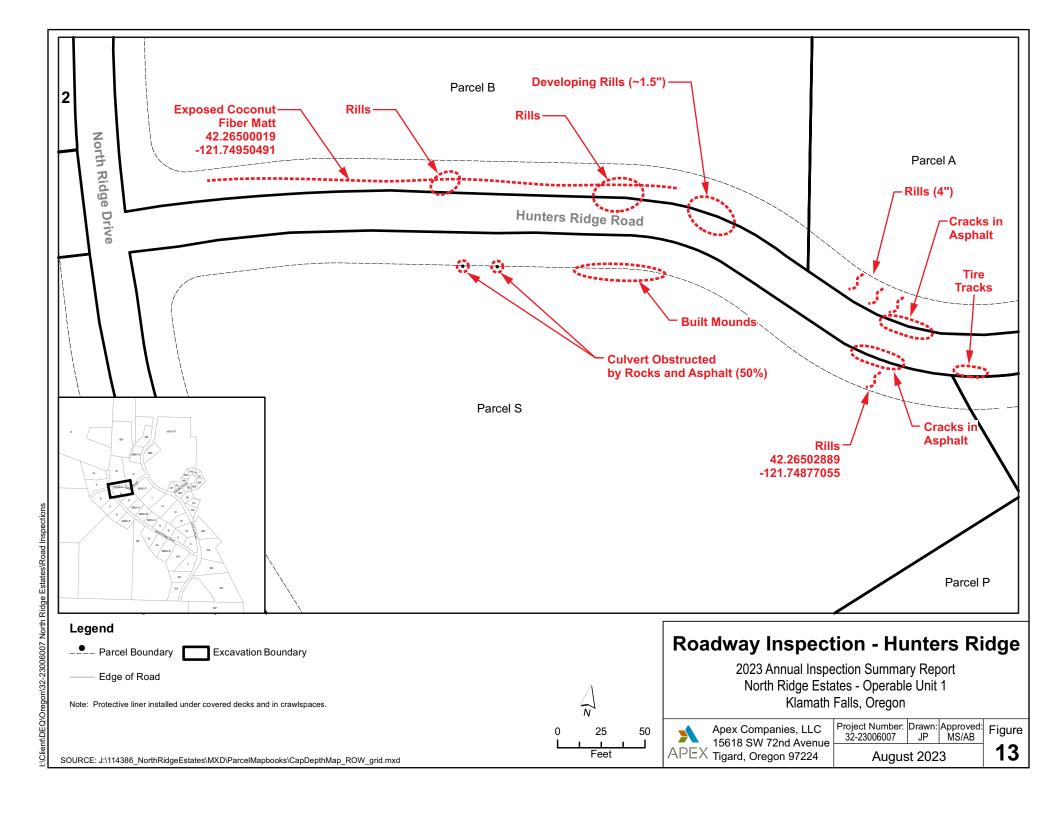


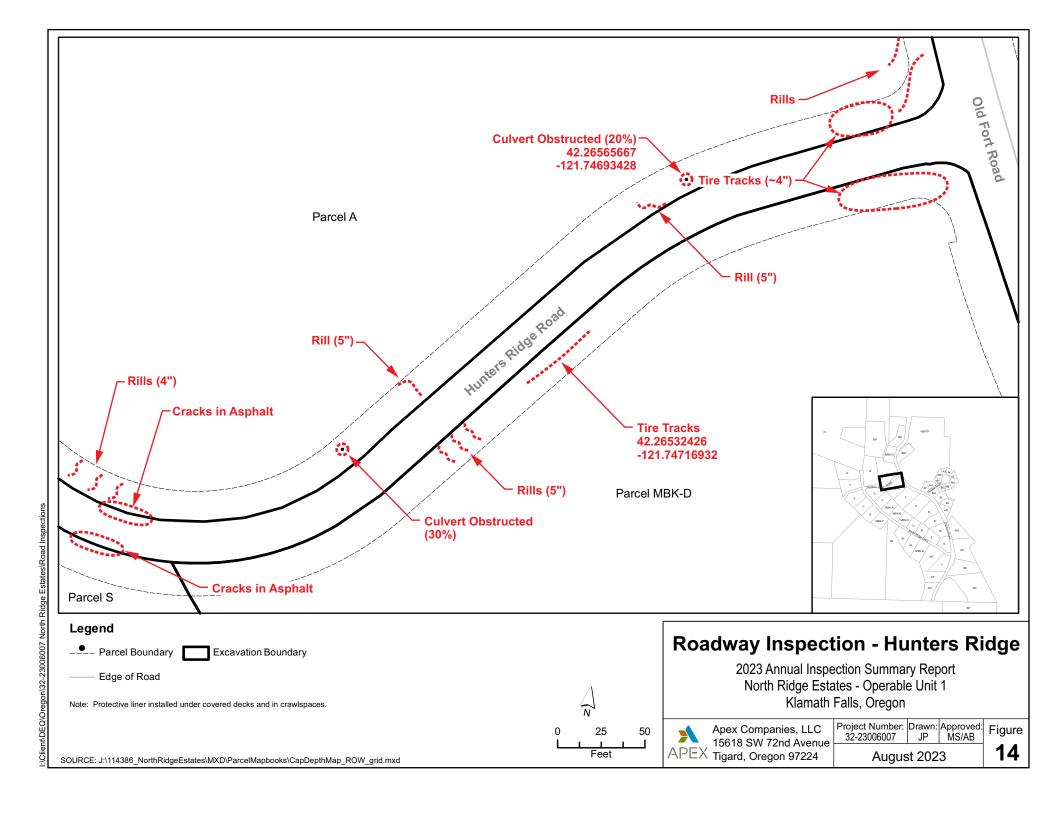
	eral Site Information							
Site Name:	North Ridge Estates	Estates			ty:	Oregon (Klamath County	/) Parcel/Tax ID:	Hunter's Ridge Road
EPA Point of Contac	tact Linda Meyer (206) 553-6636			ODEQ Poin	t of Contact	Katie Daugherty (503) 860-3943		
Inspection Date:	7/4/2	023		P	erson(s) Pe	erforming Inspection: Ben Echt (Apex Companies, LLC)	Person(s) Performing Inspection:	
Part II. Rer	medy Performance Assessment		1					The state of the s
Remedy Component	Potential Problem	Yes (Repair Needed)	Yes (Monitor/ No Repair)	No	N/A	If Yes,	Describe Extent of Problem	Describe Potential Repair Solution
	Have rills developed deeper than 2 inches?		×			Rills were noted in several locations in the ditche	s along Hunter's Ridge Road (Parcels B, A, S, MBK-D;). (Same as 2022)	
	Are the rills within a 10-foot interval?		☒					
	Have gullies developed deeper than 6 inches?			×				
Protective Cap	Have animals created burrows in the protective cap?			×				
	Have vehicles damaged the protective cap?		×				ort Road and Hunter's Ridge Road. No apparent damage to protective cap. (Same as 2022) ound along the dirt shoulder of the road.	
	Any evidence of ACM on Site including areas where the protective cap is less than 2 feet (see as-built drawings) or within the dripline of the legacy trees?			×				
	Are there areas that show evidence of unstable slopes, subsidence, or slope failure? Are there signs of active bank erosion and/or lateral cutting?			×				
	Any visible ACM along the perimeter of the Site (where applicable)?			×				
Vegetation	Evidence of distressed or sparse vegetation? (sparse vegetation no greater than 10 percent of area and bare areas no greater than 100 square feet)				×			
	Evidence of trees and shrubs in distress?				×			
	Are there any stressed or dying trees that may impact or damage the protective cap when felled?				×			

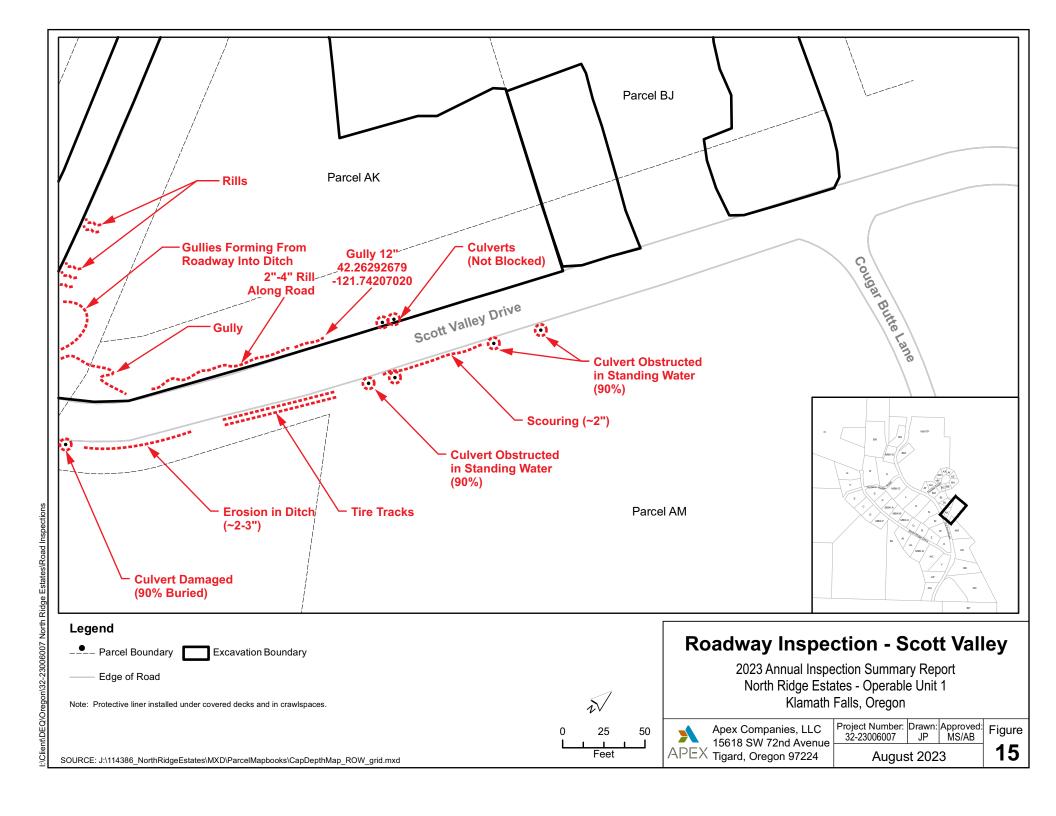
	Obstructions observed in ditches or culverts that may impede conveyance of stormwater?	×				Culverts obstructed along Hunters Ridge Road Parcels S and A (Same as 2022). Culverts obstructed with a variation of gravel, rocks and vegetation observed along Hunters Ridge Road and near Old Fort Road.	Remove obstructions from culverts to enable stormwater flow.
Ditches and Culverts	Damaged observed to riprap surface? Note if riprap is not intact or not effectively providing armor protection.			×			
Ditches	Are there any areas that show signs of excessive scour? (i.e., gullies forming along centerline of ditch)			×			
	Are culvert inlets and outlets damaged?			×			
s and ays	Are the driveways showing signs of failure? (i.e., alligator cracking)			×			
Driveways and Walkways	Are there any other signs of considerable damage to paved surfaces, other than normal wear and use?		×			Minor cracking was observed at a few locations along the shoulders of the asphalt road (Parcels A and S). (Same as 2022)	
Crawispaces and Decks	Are the liners inside crawlspaces and under covered decks damaged or punctured?				×		
Crawl	Are the liners exposed to UV radiation?				×		
Access Controls	Are access controls damaged?				×		
Access (Are changes to the access controls needed?				×		
s in Site	Are there any new site features installed that have damaged the protective cap?			×			
/ Changes Misc.							
Miscellaneous Features / Changes in Site Conditions / Misc.							
Misce							

Part I. General Site Information											
Site Name:	eral Site Information North Ridge Estates			01-1-10			One was (Massally Occupts)		Parcel/Tax ID:	Over#Aleller Delea	
				State/Coun	-		Oregon (Klamath County)		Parcel/Tax ID:	Scott Valley Drive	
EPA Point of Contac	of Contact Linda Meyer (206) 553-6636			ODEQ Point of Contact			Katie Daugherty (503) 860-3943				
Inspection Date:	7/6/2	023		P	Person(s) Pe	erforming Inspection:	Ben Echt (Apex Companies, LLC)		Person(s) Performing Inspection:		
	nedy Performance Assessment	Yes	Yes								
Remedy Component	Potential Problem	(Repair Needed)	(Monitor/ No Repair)	No	N/A		If Yes, D	Describe Extent of Problem		Describe Potential Repair Solution	
	Have rills developed deeper than 2 inches?			×							
Protecti	Are the rills within a 10-foot interval?			×							
	Have gullies developed deeper than 6 inches?	×					A gully was noted on the northeast s	side of Scott Valley Drive on the corn	ner of Old Fort Road.	Backfill gully to prevent further erosion.	
	Have animals created burrows in the protective cap?			×							
	Have vehicles damaged the protective cap?			×							
	Any evidence of ACM on Site including areas where the protective cap is less than 2 feet (see as-built drawings) or within the dripline of the legacy trees?			×							
	Are there areas that show evidence of unstable slopes, subsidence, or slope failure? Are there signs of active bank erosion and/or lateral cutting?			M							
	Any visible ACM along the perimeter of the Site (where applicable)?			×							
	Evidence of distressed or sparse vegetation? (sparse vegetation no greater than 10 percent of area and bare areas no greater than 100 square feet)				×						
	Evidence of trees and shrubs in distress?				×						
	Are there any stressed or dying trees that may impact or damage the protective cap when felled?				X						

	Obstructions observed in ditches or culverts that may impede conveyance of stormwater?	×			_	Several culverts were noted to have some level of obstruction on Scott Valley Drive.	Remove obstructions from culverts to enable stormwater flow.
Ditches and Culverts	Damaged observed to riprap surface? Note if riprap is not intact or not effectively providing armor protection.				×		
Ditches	Are there any areas that show signs of excessive scour? (i.e., gullies forming along centerline of ditch)		×			Scouring was noted at multiple locations along the southeast side of Scott Valley Drive. (Same as 2022)	
	Are culvert inlets and outlets damaged?	×				The culvert on the south end of Scott Valley Drive was noted to be damaged. (Same as 2022)	Replace damaged culvert.
s and lys	Are the driveways showing signs of failure? (i.e., alligator cracking)		×			Some alligator cracking was noted on the northern portions of Scott Valley Drive. (Same as 2021)	
Driveways and Walkways	Are there any other signs of considerable damage to paved surfaces, other than normal wear and use?			×			
Crawlspaces and Decks	Are the liners inside crawlspaces and under covered decks damaged or punctured?				×		
Cray	Are the liners exposed to UV radiation?				×		
Access Controls	Are access controls damaged?				×		
Access (Are changes to the access controls needed?				X		
in Site	Are there any new site features installed that have damaged the protective cap?			×			
Miscellaneous Features / Changes in Site Conditions / Misc.							
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Hunter's Ridge Road



Hunter's Ridge Road – View of exposed Coconut Fiber Mat on North shoulder of road.

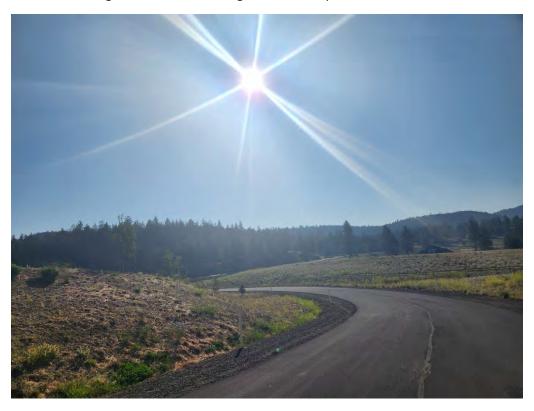


Hunter's Ridge Road – View looking West of pavement and road shoulder.





Hunter's Ridge Road – View looking Northeast of pavement and road shoulder.



Hunter's Ridge Road – View looking East of Tire Tracks on North gravel road shoulder.



Scott Valley Drive



Scott Valley Drive – Standing Water located on the Southern side of the road, result of blocked culvert.



Scott Valley Drive – View of pavement and gravel shoulder from Northeast corner of road.



Scott Valley Drive



Scott Valley Drive – View of pavement and gravel shoulder from Northwest corner of road.



Scott Valley Drive – View of pavement and gravel shoulder from Southeast corner of road.

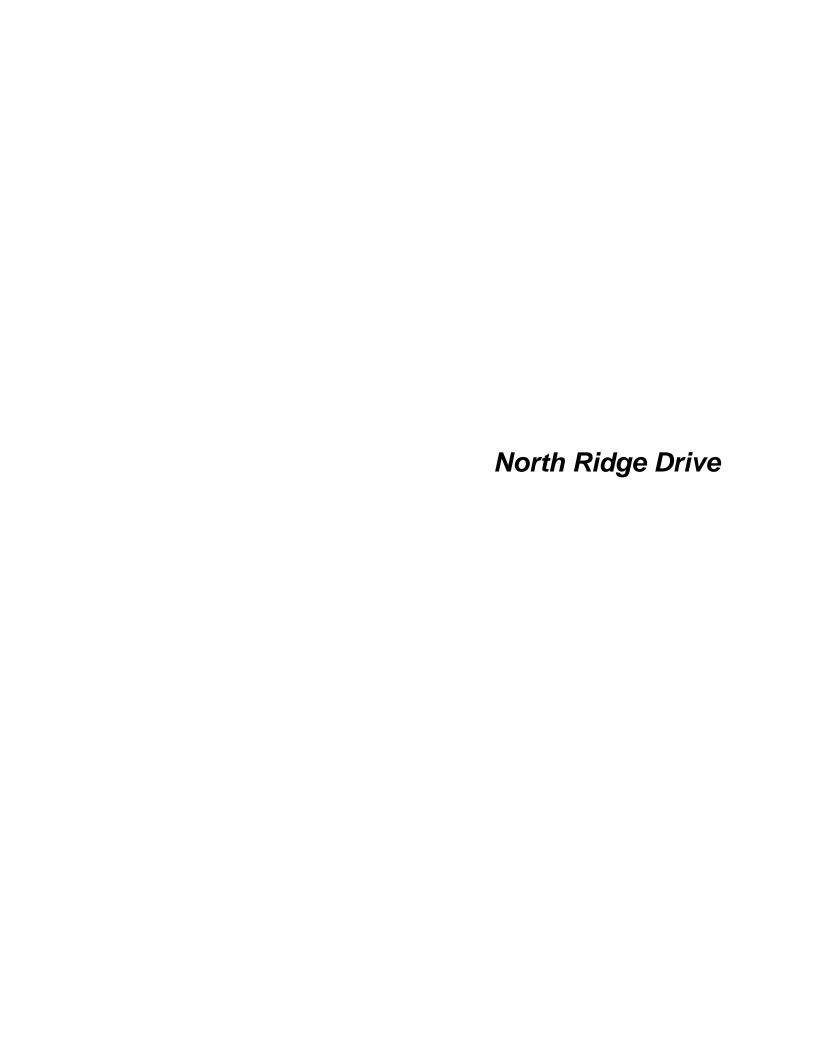


Scott Valley Drive



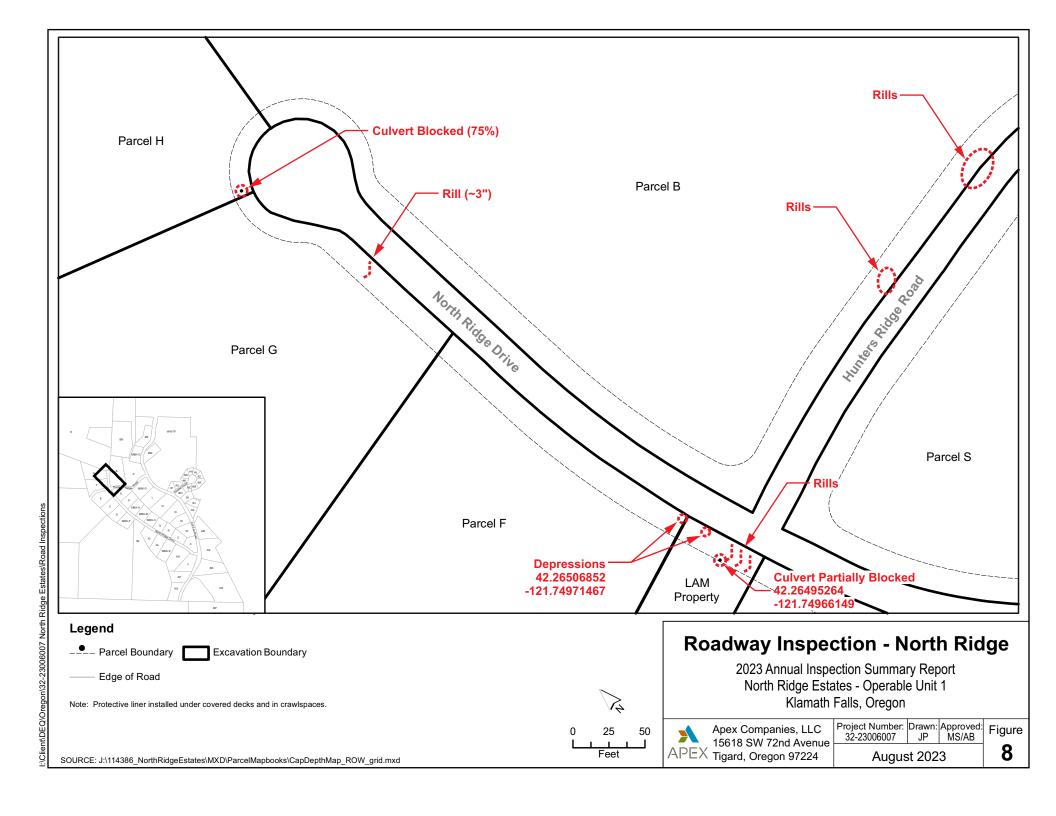
Scott Valley Drive – View from Southwest corner of road where erosion in ditch is present (same as 2022).

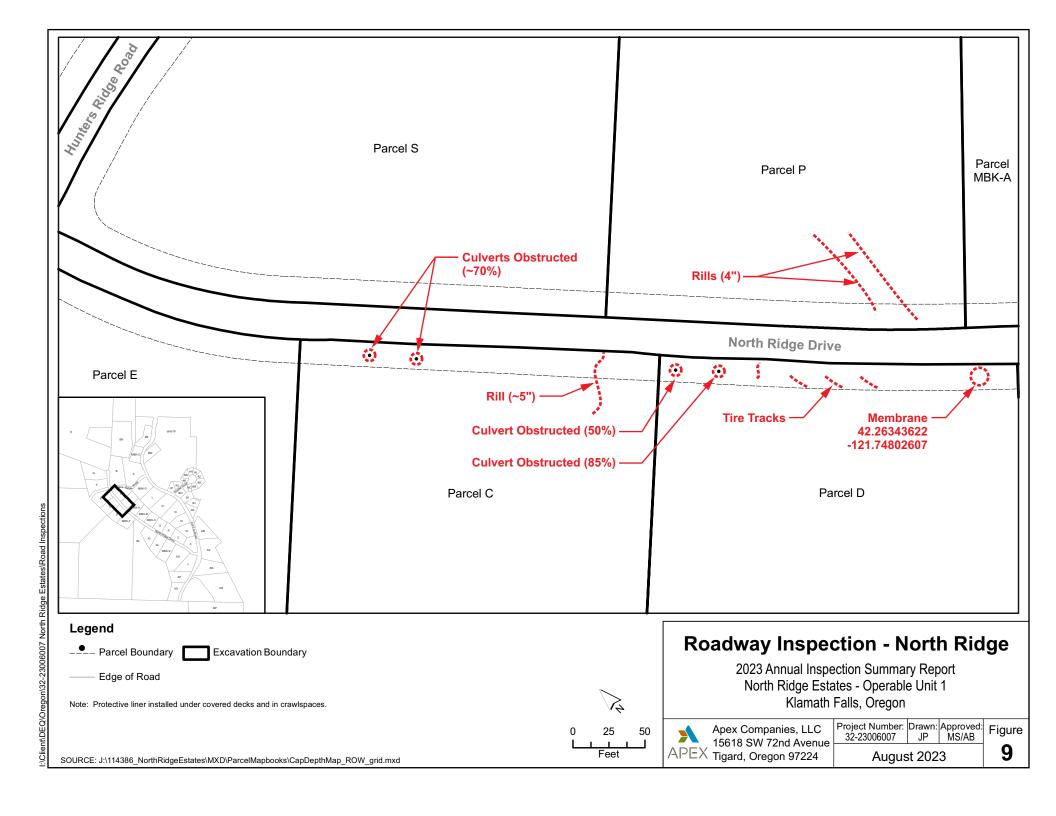


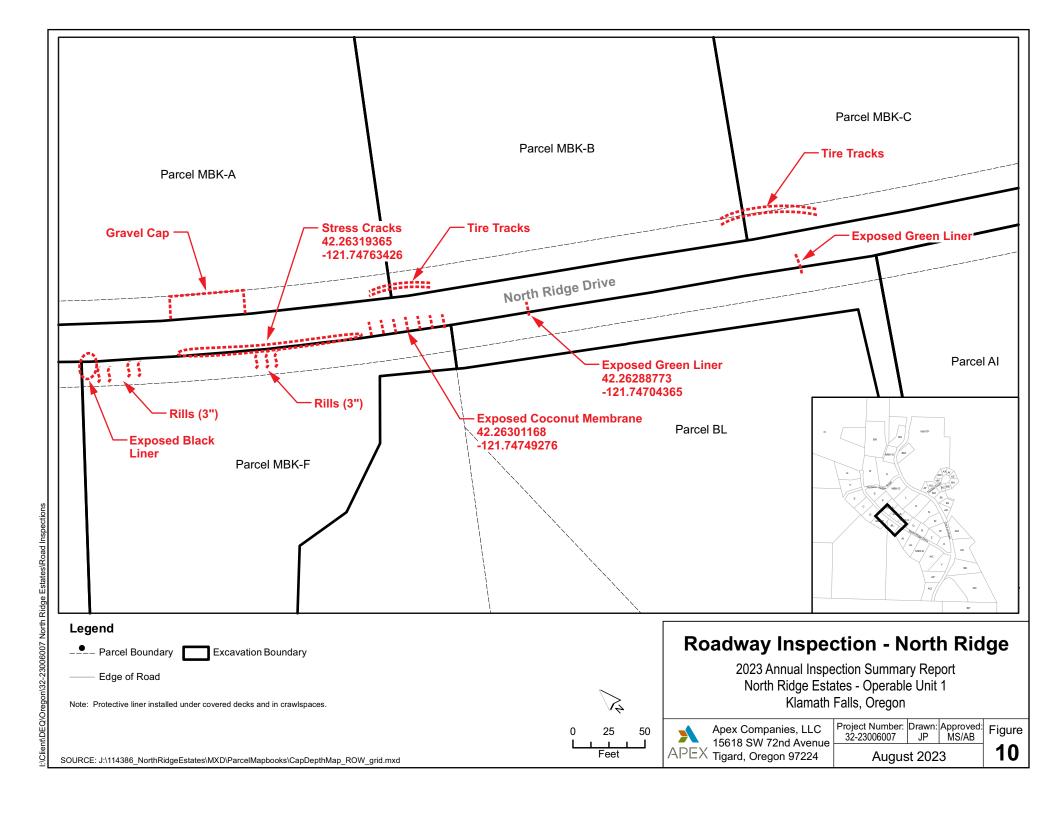


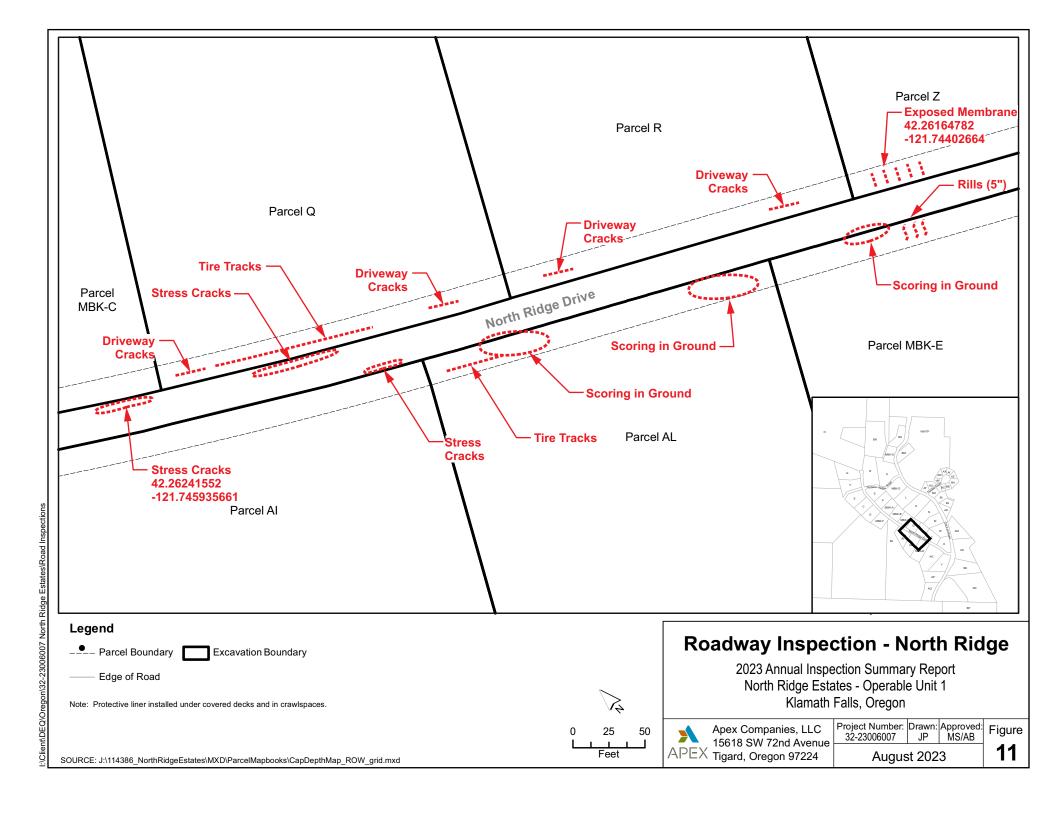
Part I. General Site Information											
Site Name:					ty:		Oregon (Kla	amath County)	Parcel/Tax ID:		North Ridge Drive
EPA Point of Contac	act Linda Meyer (206) 553-6636			ODEQ Poin	t of Contact	t	Katie Daugherty (503) 8	60-3943			•
nspection Date:	7/4/2	202		F	Person(s) Pe	erforming Inspection:	Alex Everden & Ben Ech	nt (Apex Companies, LLC)	Person(s) Performing Inspection:		
Part II. Ren	nedy Performance Assessment				1						
Remedy Component	Potential Problem	Yes (Repair Needed)	Yes (Monitor/ No Repair)	No	N/A			If Yes, Describe Extent of Problem			Describe Potential Repair Solution
	Have rills developed deeper than 2 inches?		×				Rills were noted in sev	veral locations in the ditches along No	rth Ridge Drive. (Same as 2021)		
	Are the rills within a 10-foot interval?		×								
	Have gullies developed deeper than 6 inches?	X					Gullies w	vere noted along North Ridge Drive adj	acent to Parcel D.		Backfill gullies to prevent further erosion.
	Have animals created burrows in the protective cap?			×							
•	Have vehicles damaged the protective cap?			×		No damage to o	cap, but tire tracks were noted a	along North Ridge Drive adjacent to th			
Protective Cap	Any evidence of ACM on Site including areas where the protective cap is less than 2 feet (see as-built drawings) or within the dripline of the legacy trees?			×							
	Are there areas that show evidence of unstable slopes, subsidence, or slope failure? Are there signs of active bank erosion and/or lateral cutting?			×				Depressions observed near Parcel	LAM.		
	Any visible ACM along the perimeter of the Site (where applicable)?			×							
Vegetation	Evidence of distressed or sparse vegetation? (sparse vegetation no greater than 10 percent of area and bare areas no greater than 100 square feet)				×						
	Evidence of trees and shrubs in distress?				×						
	Are there any stressed or dying trees that may impact or damage the protective cap when felled?				×						

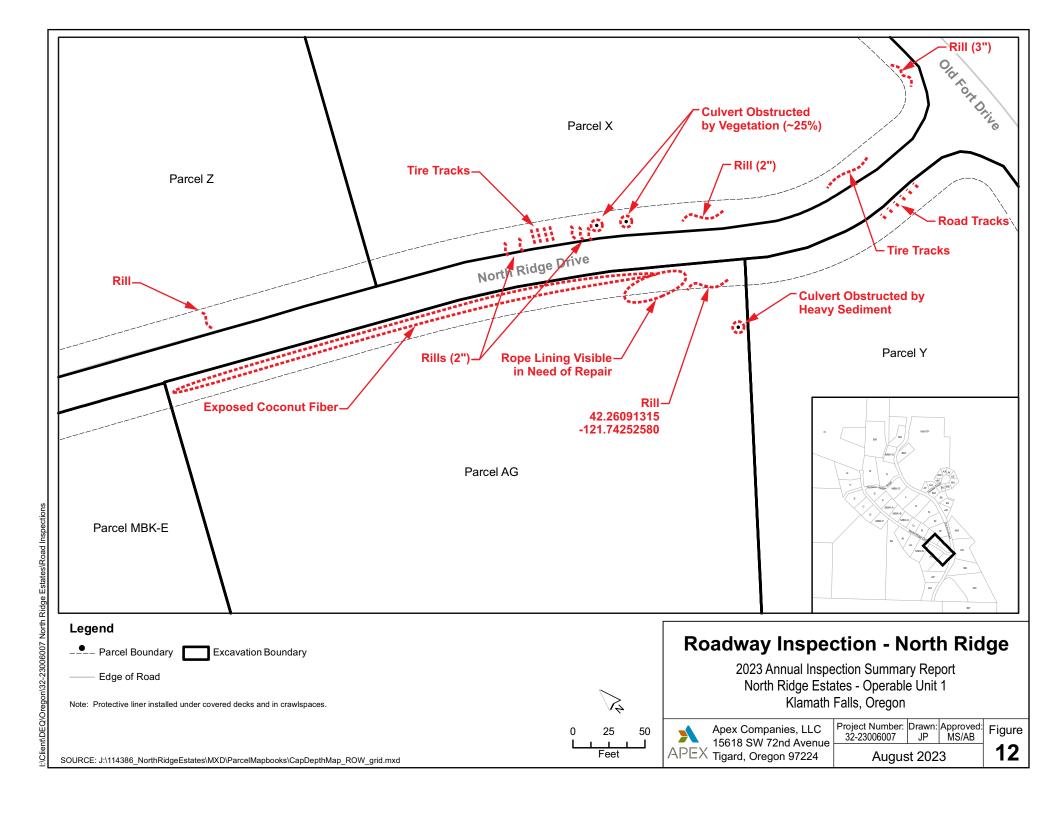
	Obstructions observed in ditches or culverts that may impede conveyance of stormwater?	×				Several culverts along North Ridge Drive were observed to have some level of obstruction.	Remove obstructions from culverts to enable adequate stormwater flow.
Ditches and Culverts	Damaged observed to riprap surface? Note if riprap is not intact or not effectively providing armor protection.			×			
Ditches	Are there any areas that show signs of excessive scour? (i.e., gullies forming along centerline of ditch)		×			Scouring was observed on North Ridge Drive adjacent to parcel AL. Membrane exposed along North Ridge Drive near the following parcels: BL, D, MBK-F and Z.	
	Are culvert inlets and outlets damaged?	X				Culverts partially blocked near the following parcels: C, H, LAM, D, X.	Remove obstructions from culverts to enable adequate stormwater flow.
s and 1ys	Are the driveways showing signs of failure? (i.e., alligator cracking)			×		Stress cracks observed near the following parcels: AG, MBK-A, MBK-C, MBK-F, Q, R, X and Y.	
Driveways and Walkways	Are there any other signs of considerable damage to paved surfaces, other than normal wear and use?			×			
Crawlspaces and Decks	Are the liners inside crawlspaces and under covered decks damaged or punctured?				×		
Cra	Are the liners exposed to UV radiation?				×		
Access Controls	Are access controls damaged?				×		
Access (Are changes to the access controls needed?				×		
s in Site	Are there any new site features installed that have damaged the protective cap?			×			
/ Changes Misc.							
Miscellaneous Features / Changes in Site Conditions / Misc.							
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North Ridge Drive



North Ridge Drive – View facing Southeast of pavement and gravel shoulder.



North Ridge Drive – View facing Northeast of pavement and gravel shoulder.



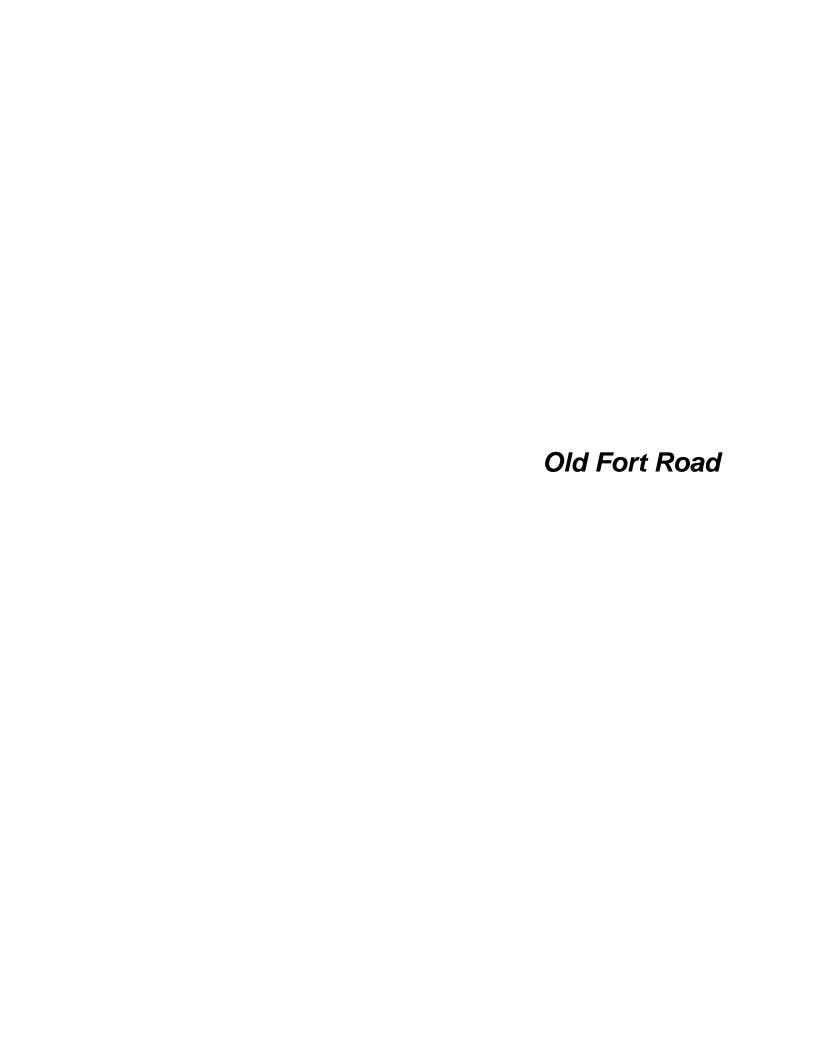


North Ridge Drive – View of depressions in gravel shoulder.



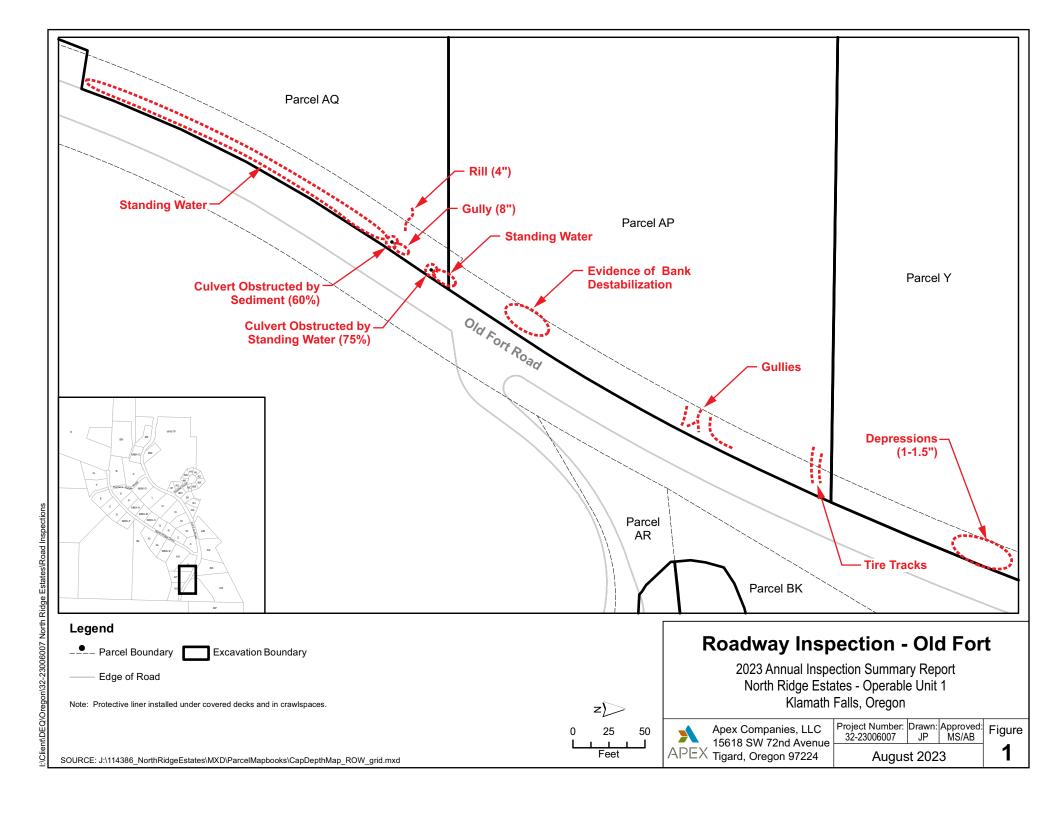
North Ridge Drive – Black Geomembrane exposed along shoulder near Parcel D.

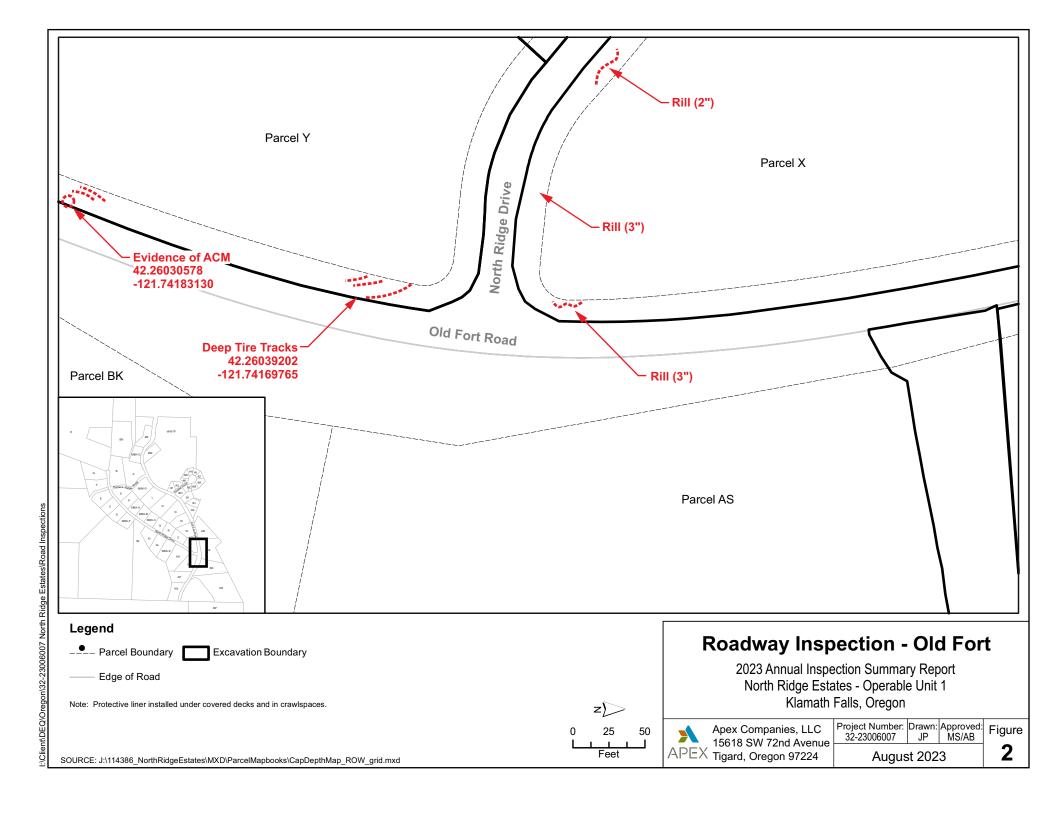


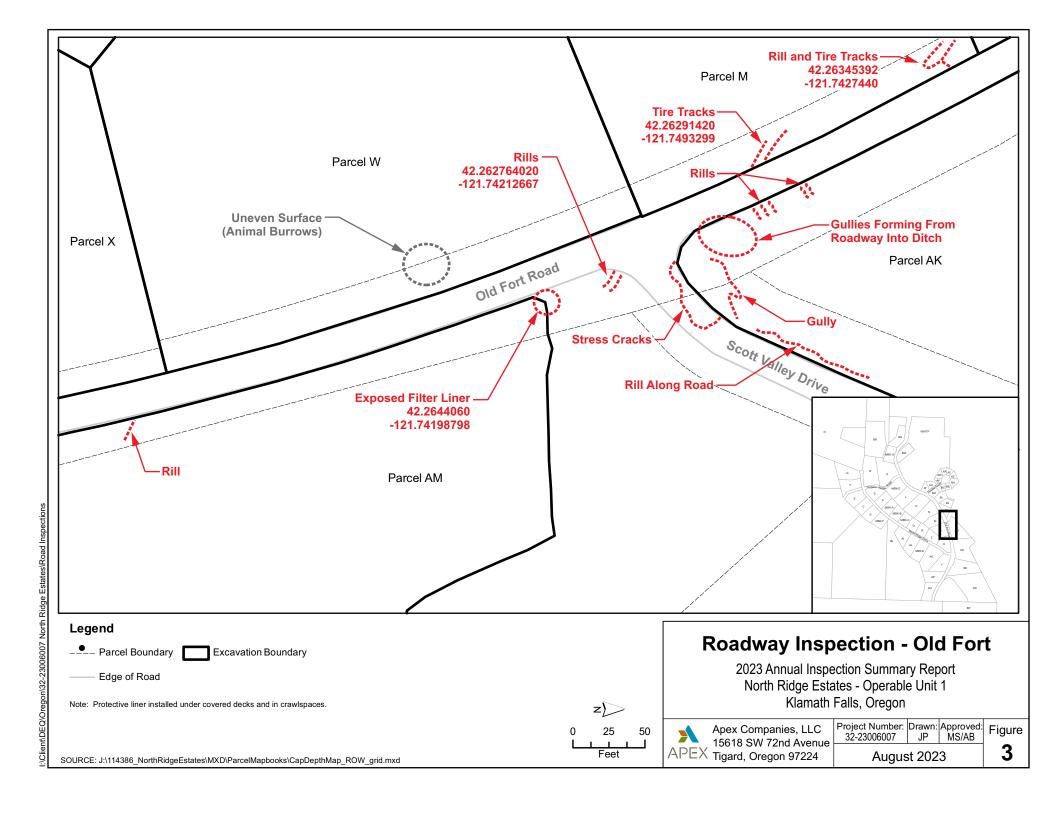


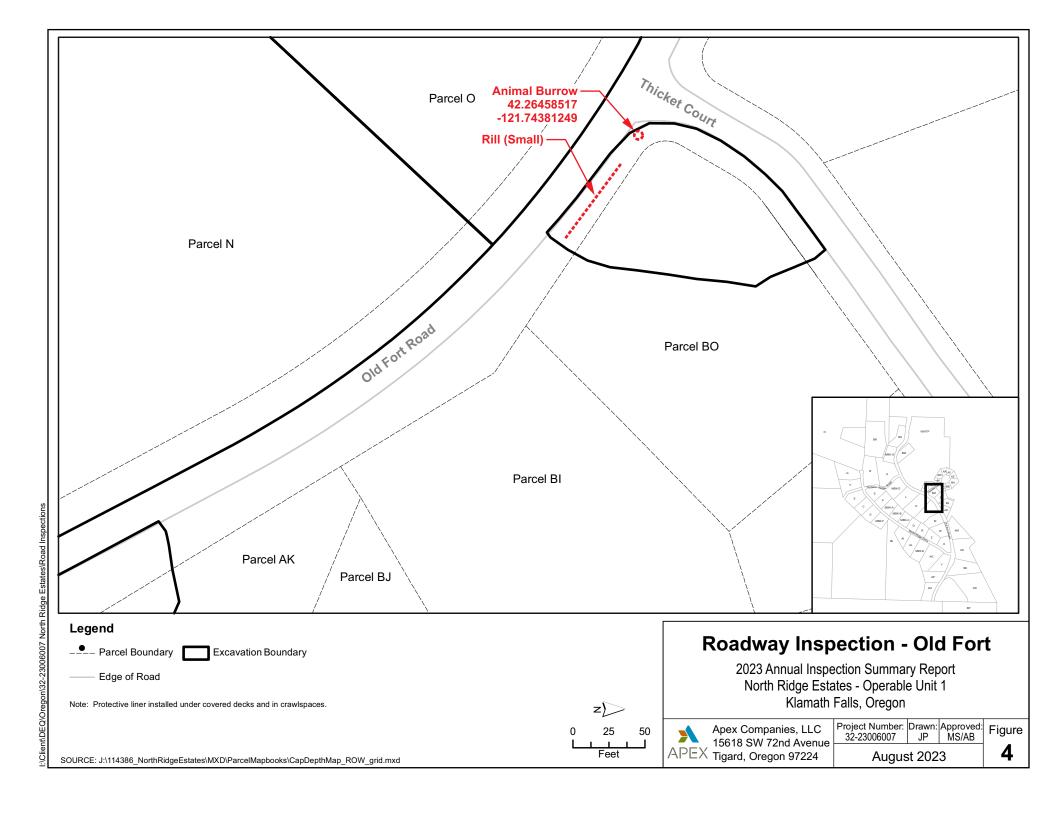
Part I. General Site Information												
Site Name:					ty:		Oregon (Kla	amath County)	Par	rcel/Tax ID:		Old Fort Road
EPA Point of Contac	t Linda Meyer (206) 553-6636			ODEQ Poin	t of Contact	i e	Katie Daugherty (503) 86	60-3943				
Inspection Date:	7/5/20	023		F	Person(s) Pe	rforming Inspection:	Alex Evernden & Ben Ed	cht (Apex Companies, LLC)	Per	rson(s) Performing Inspection:		
Part II. Ren	nedy Performance Assessment											
Remedy Component	Potential Problem	Yes (Repair Needed)	Yes (Monitor/ No Repair)	No	N/A			If Yes, Describe Extent of P	Problem		Descri	pe Potential Repair Solution
	Have rills developed deeper than 2 inches?	×				Rills and gullies	were noted in several locations	s in the ditches along Old Fort Roa	ad (Parcels AK, AP,	AQ, BM, MBK-G, WWTP). (Same as 2022)	Backfill gu	llies to prevent further erosion.
	Are the rills within a 10-foot interval?		×									
	Have gullies developed deeper than 6 inches?	X				Rills and gullies	were noted in several locations	s in the ditches along Old Fort Roa	ad (Parcels AK, AP,	AQ, BM, MBK-G, WWTP). (Same as 2022)	Backfill gu	llies to prevent further erosion.
	Have animals created burrows in the protective cap?			×								
	Have vehicles damaged the protective cap?		×				Tire tracks were obse	served on the northeast corner of F	Parcel A and along I	Parcel MBK-D.		
Protective Cap	Any evidence of ACM on Site including areas where the protective cap is less than 2 feet (see as-built drawings) or within the dripline of the legacy trees?			×								
	Are there areas that show evidence of unstable slopes, subsidence, or slope failure? Are there signs of active bank erosion and/or lateral cutting?			×								
	Any visible ACM along the perimeter of the Site (where applicable)?			×								
Vegetation	Evidence of distressed or sparse vegetation? (sparse vegetation no greater than 10 percent of area and bare areas no greater than 100 square feet)				×							
	Evidence of trees and shrubs in distress?				×							
	Are there any stressed or dying trees that may impact or damage the protective cap when felled?				×							
			_	_	_							

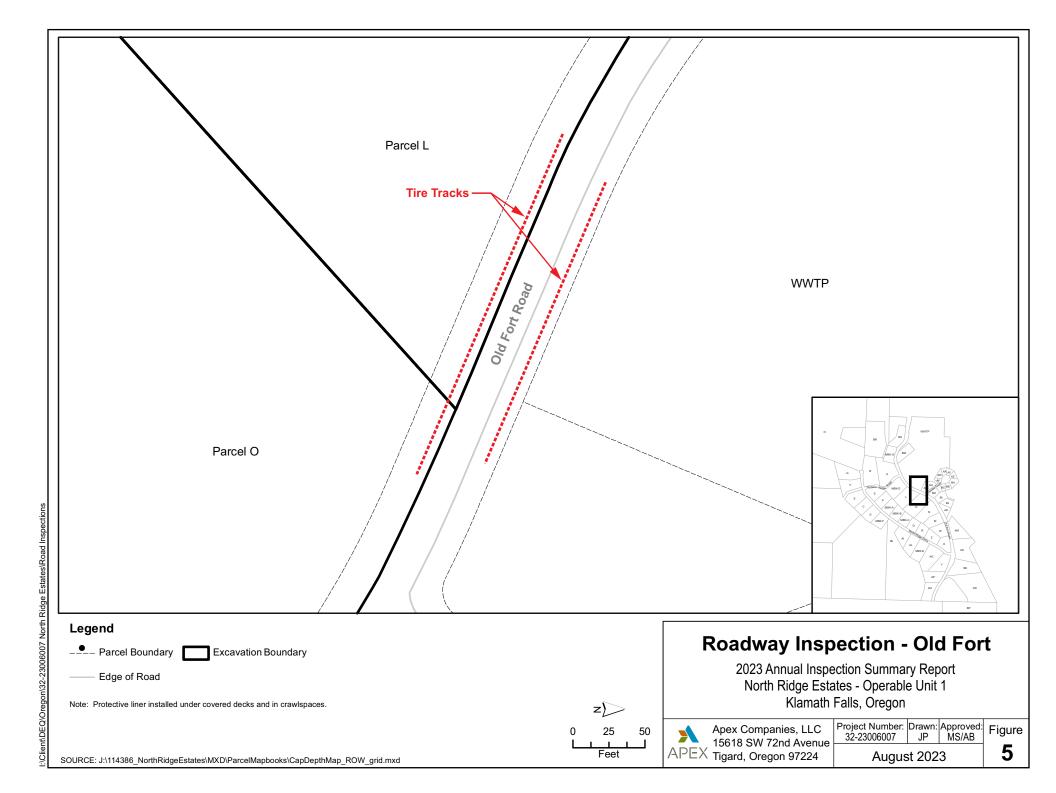
	Obstructions observed in ditches or culverts that may impede conveyance of stormwater?	X			Numerous culverts were observed to have some level of obstruction along Old Fort Road (parcels AQ and BM). Several culverts were obstructed by gravel that was previously added to level the roadway surface. (Same as 2021)	Remove obstructions from culverts to enable adequate stormwater flow.
Ditches and Culverts	Damaged observed to riprap surface? Note if riprap is not intact or not effectively providing armor protection.		X			
Ditches	Are there any areas that show signs of excessive scour? (i.e., gullies forming along centerline of ditch)		×			
	Are culvert inlets and outlets damaged?		X			
s and	Are the driveways showing signs of failure? (i.e., alligator cracking)		×			
Driveways and Walkways	Are there any other signs of considerable damage to paved surfaces, other than normal wear and use?		×			
Crawlspaces and Decks	Are the liners inside crawlspaces and under covered decks damaged or punctured?			×		
Crav	Are the liners exposed to UV radiation?			×		
Access Controls	Are access controls damaged?			×		
Access (Are changes to the access controls needed?			×		
in Site	Are there any new site features installed that have damaged the protective cap?		×			
/ Changes Misc.						
Miscellaneous Features / Changes in Site Conditions / Misc.						
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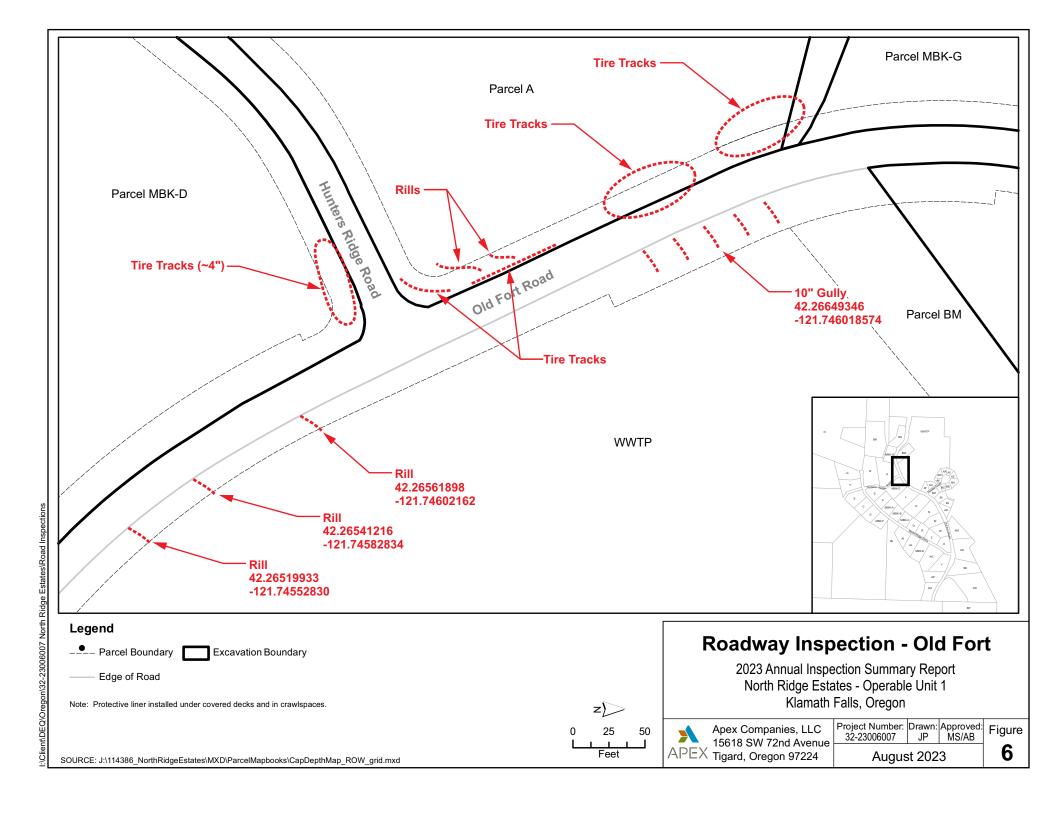


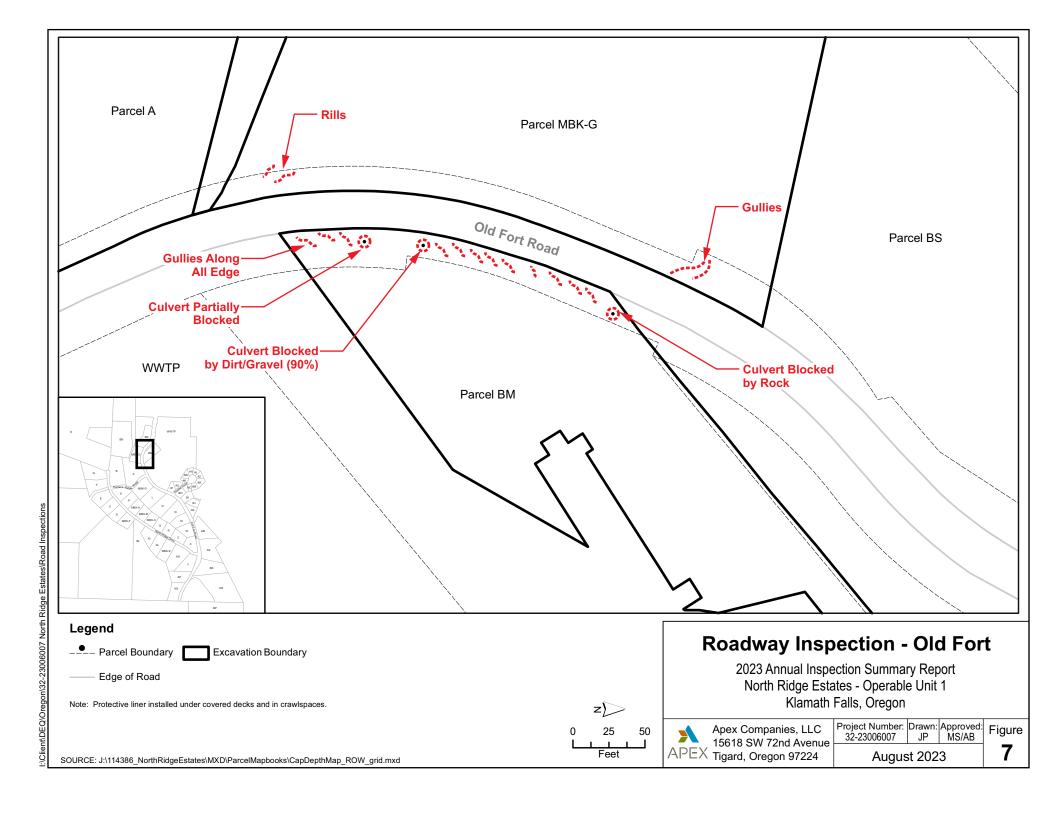












Old Fort Road



Old Fort Road – View of Gully along gravel shoulder of road.



Old Fort Road – View of recently repaired area of gravel shoulder.



Old Fort Road



Old Fort Road – View of Rills observed on gravel shoulder.



Old Fort Road – View of Tire Tracks observed along gravel shoulder.



Old Fort Road



Old Fort Road – View of intersection of Old Fort Road and Thicket Court.



Old Fort Road – View of Northern section of Old Fort Road.

