

# Oregon South Coast Slides Study:

## US 101 and Carpenterville Highway Traffic Control and Communications Plan

### Study landslides include:

- Retz Creek South Slide
- Coal Point Slide
- North Brush Creek Hump
- Brush Creek Slide
- Arizona North Slide (part of Arizona Slide Complex\*)
- Arizona Inn Slide (part of Arizona Slide Complex\*)
- Christmas Tree Slide (aka Frankport North)
- Sisters Rock Sink
- Frankport Slide (aka Frankport South)
- Woodroof Creek Slide (aka Horneblenzer Slide, Skull Ridge Slide, Squire Slide)
- Eighty Acres Slides
- Burnt Hill Slide
- Hooskanaden Slide

## Contents

Overview of Document .....	3
Communications Plan – All Landslide Events .....	4
Stakeholders and Impacted Groups .....	4
Communication Plan Steps .....	4
General Approach FOR Temporary Traffic Control – All EVENTS .....	7
Soft and Hard Closure Locations.....	7
Phased Approach to Set Up Temporary Traffic Control.....	8
Humbug Mountain Slide Area .....	14
Retz Creek South, Coal Point, and North Brush Creek Hump Slides.....	16
Brush Creek .....	19
Arizona North Slide (part of Arizona Slide Complex) .....	22
Christmas Tree Slide (aka Frankport North) .....	25
Sisters Rock Sink .....	28
Frankport Slide (aka Frankport South) .....	31
Woodroof Creek Slide (aka Horneblenzer Slide, Skull Ridge Slide, Squire Slide) .....	34
US 101 Closure Alert Strategy .....	36
Eighty Acres Slide Area .....	38
US 101 Closure Alert Strategy .....	41
Hooskanaden Slide Area .....	43
Burnt Hill Slide .....	44
Hooskanaden Slide .....	50
US 101 Closure Alert Strategy .....	55
Carpenterville Highway Slide Area.....	58
Carpenterville Highway Closure Alert Strategy .....	63

## OVERVIEW OF DOCUMENT

The following Traffic Control and Communications Plan (TCP) outlines protocols for when landslide events occur on the south coast of Oregon between Port Orford and Brookings. The TCP includes phased approaches for temporary traffic control set-up, references to appropriate ODOT standard drawings for general temporary traffic control guidance, specific temporary traffic control plans for complex control points, and a communications plan.

This TCP was established as part of the South Coast Slide Study that reviewed 13 specific landslide locations on US 101. The TCP can be used to support actions for other landslide events within the slide area, but it provides the most specific guidance for South Coast Slide study landslides. The study landslides were grouped into three slide areas based on the location of regional destinations and availability of alternative routes around the slide. Study landslides in each slide area include:

- Humbug Mountain Slide Area
  - Retz Creek South Slide
  - Coal Point Slide
  - North Brush Creek Hump
  - Brush Creek Slide
  - Arizona North Slide (part of Arizona Slide Complex)
  - Arizona Inn Slide (part of Arizona Slide Complex)
  - Christmas Tree Slide (aka Frankport North)
  - Sisters Rock Sink
  - Frankport Slide (aka Frankport South)
  - Woodroof Creek Slide (aka Horneblenzer Slide, Skull Ridge Slide, Squire Slide)
- Eighty Acres Slide Area
  - Eighty Acres Slide
- Hooskanaden Slide Area
  - Burnt Hill Slide
  - Hooskanaden Slide

The TCP is organized into five sections. This first introduction section is an overview of the document and includes the Communications Plan and Phased Approach for Temporary Traffic Control that is relevant for all landslide event locations and scenarios. Scenarios could include all lanes on US 101 being closed due to a landslide event or only some of the lanes on US 101 being closed.

- Section 1 focuses on the Humbug Mountain Slide Area.
- Section 2 focuses on the Eighty Acres Slide Area.
- Section 3 focused on the Hooskanaden Slide Area.
- Section 4 focuses on Carpenterville Highway Slide Area. No specific study landslides from Carpenterville Highway were included in the South Coast Slides Study. Therefore, this section provides broader guidelines that are relevant for any of the unstable slope locations that may impact this roadway.

# COMMUNICATIONS PLAN – ALL LANDSLIDE EVENTS

Independent of which landslide location and which scenario is occurring for a landslide event, the following communications plan provides a step-by-step approach for ODOT staff during and after a landslide event.

---

## Stakeholders and Impacted Groups

---

When a landslide event occurs and impacts US 101 and/or Carpenterville Highway, communication is key for the safety and timely recovery for the traveling public. Key stakeholders and impacted groups that need to be notified include:

- ODOT, including the following divisions/units
  - Transportation Maintenance Managers (TMM)
  - Traveler information team, supporting website, TripCheck, 511, and social media updates and activities
  - Geotechnical
  - Dispatch and transportation operations center (TOC) operators
  - District maintenance and response crews
  - ITS, supporting VMS operations
  - Motor carrier
  - Traffic Management Centers (TMCs)
  - Traffic incident management
- Caltrans, Curry County Department of Transportation, and local city transportation departments
- Public transportation providers
- Law enforcement agencies, such as Oregon State Police (OSP), county sheriff's department, and local police departments
- Emergency responders and dispatchers
- Utility companies
- Forest Services
- Contractors, flaggers, and construction crews
- Fuel and freight providers, trucking companies
- Private property owners with impacted property
- Traveling public
- Media

---

## Communication Plan Steps

---

The following highlights the communication and coordination steps for ODOT to take when a landslide event occurs that blocks one or more lanes on US 101 or Carpenterville Highway.

1. **Event occurs and is reported** to ODOT (likely by a member of the public).
2. The local **Transportation Maintenance Manager (TMM) receives the notification and notifies ODOT dispatch, geotechnical, and public information groups.**
3. **ODOT and partners inform the traveling public.** The public information officer handles public notifications. ODOT's TripCheck system will show any closures. The public information officer will notify:
  - a. Local news stations, who will broadcast information more widely.
  - b. Local agency partners, who can then further notify residents via their protocols.
  - c. Curry County, who will send emergency text alerts as needed.
  - d. Local bicycle and pedestrian groups, who can notify their memberships.
4. ODOT geotechnical staff work together to **determine the type of occurrence and what should be done.** Determine if US 101 can stay open (for a slow-moving landslide for example), partially open, or fully closed.
5. **ODOT dispatch staff sends out response staff and any needed contractors.** This effort will depend on the type of impact and needed traffic control. ODOT maintenance staff, contracted flaggers, and construction crews may be part of the response. For any lane or full closures, ODOT maintenance staff will be there 24/7 for liability reasons.
6. On-site ODOT staff, and any needed contractors, **set up initial road closure, if needed.** For lane or full roadway closures, this step may include flagging stations and signage, including both PCMS set up locally and VMS alerts on the highway network (which may be for all vehicles or for freight vehicles only depending on the temporary traffic control scenario). Equipment to be dispersed primarily from the maintenance facilities in Gold Beach and Port Orford.
7. Dispatch will automatically **make a request to impacted groups**, such as:
  - a. Caltrans, who may need to set up VMS boards with highway closure alerts.
  - b. Motor Carrier, who may need to provide assistance with length, width, and/or weight restrictions, such as operating weight masters on either side of a detour route or segment of US 101 that cannot accommodate all freight vehicle sizes. If lanes on US 101 remain open, there may be vehicle restrictions. Per the ODOT Mobility Procedures Manual, the minimum horizontal clear width for 2-lanes of traffic is 28 feet and for one lane of traffic is 22 feet.
  - c. Fuel and freight providers, who may have disruptions in the supply chain to local communities due to environmental restrictions on US 199. Early notification will allow providers to consider options like sending smaller but more frequent freight/fuel trucks to provide similar loads.
  - d. Emergency responders, who may have disruptions to their routes and dispatch processes.
8. On-site ODOT staff, and any needed contractors, **reinforce and complete local traffic control setup, if needed.**
  - a. Determine how best to support bicyclists and pedestrians in the impact area. Actions that may support these users, depending on the specific event context, include:
    - i. Warning and wayfinding signage.
    - ii. Space allocation to allow bicyclist and pedestrian to travel past the work zone, if feasible.
9. **ODOT coordinates with stakeholders to support freight movement.**

- a. If Carpenterville Highway is used as a detour route, ODOT staff will handle pilot cars for trucking companies.
- b. For over-dimensional loads, TMM or TMCs will assist in coordinating loads traveling over US 101 if open or local detour route Carpenterville Highway.
  - i. **Dedicated phone line for emergency coordination efforts: 541-247-0098**
  - ii. Phone will be forwarded to the Office Coordinator phone line. During the initial closure time, this line may be forwarded to a designee to help manage coordination efforts until such time that the local crew (ODOT South Coast Maintenance) can resume coordination efforts.
  - iii. While line is forwarded to external ODOT member (not on South Coast crew), the designee will work with the South Coast TMM/Coordinator in the coordination efforts to get over-dimensional loads through or around the impacted area.
  - iv. Over-dimensional loads can only be moved during “off peak” hours.
- c. Example Trucking Advisory announcement from February 2019’s Hooskanaden event recovery:



*For more information: (503) 373-0000, option 1 for information about over-dimension loads; (503) 378-6699 for information about registration services*

U.S. 101 is currently closed in both directions at MP 344, about 12 miles north of Brookings, due to a slide. Carpenterville Highway is a detour, but the Motor Carrier Transportation Division would like to remind commercial motor vehicle operators that the highway is limited to the following lengths:

- Truck Tractor and Semitrailer Combinations (fifth wheel hitch) - 60 feet overall length, 40 foot trailer length.
- Truck and Trailer Combinations (pintle hitch) - 65 feet overall length, 40 foot trailer length.
- Doubles Combinations - 65 feet overall length, 40 foot trailer length.
- Other length limits as shown on [Group Map 1](#).

Carpenterville Highway is a narrow, two-lane highway, with sharp corners and limited site distance. For carriers hauling divisible loads, a permit is not available to exceed these length limits. Carriers exceeding the length limits on Carpenterville Highway should use other alternate routes.

10. **ODOT works with Curry County Public Transportation Service District** to determine whether bus/van operations can be maintained or rerouted to support community members that rely on transit.
11. **ODOT works with key service providers**, such as emergency vehicles, deliveries, utility companies, and waste collections to determine whether operations can be maintained or rerouted to support community members.
12. **ODOT contacts and works with private property owners** with impacted property, as needed.
13. **ODOT watches and evaluates**. Make sure that the staff and material resources are appropriate. Watch the weather and the landslide to see if adjustments need to be made, especially for locations where ODOT has elected to try to keep US 101 open.
14. **ODOT discusses finances and creates action plan** for repairing and reopening any closed lanes.

# GENERAL APPROACH FOR TEMPORARY TRAFFIC CONTROL – ALL EVENTS

This section outlines the general process to follow for all temporary traffic control measures during a full or partial closure of US 101 resulting from a slide event. Straight line, location-specific diagrams are also provided in the next section for each slide showing the traffic control points to establish for a full roadway closure.

---

## Soft and Hard Closure Locations

---

The traffic control and communication plan includes the location of soft closures and hard closures in response to full closure of US 101. Hard closures are located to:

1. Prohibit road users from entering an active work zone.

The following rationale was used to locate hard closures:

- Locate 1 hard closure on each side of the closed section of roadway (for this analysis the landslide area documented by ODOT was used).
- The hard closure extents should include the limits of the slide influence area, in case that whole area is prone to have a subsequent event.
- Locate the hard closure at the next access point from the highway. The hard closure should be located to still allow access to that access point, as long as the landslide or work zone do not prevent access.
- Where possible, locate the hard closure at a place that has a turnaround area available.
- If the hard closure restricts access to a driveway or other street, note the restricted access.

Soft closures are located to:

1. Inform road users in advance of full closure of the highway and allow for alternative routes to be planned for and taken.
2. Reduce the number of road users approaching an active work zone and needing to turn around.

The following rationale was used to locate soft closures:

- Locate at least 1 soft closure on each side of the closed section of roadway, in advance of the hard closure.
- Locate at detour decision point, if a detour route is available.
- Locate the soft closure at a point beyond which most road users do not need to travel. For example, locate the soft closure at the next major intersection or attraction. If possible, locate the soft closure so there are only residential driveways between the soft closure and the hard closure.
- Locate the soft closure at a point that has a turnaround available. Ideally the turnaround should be able to accommodate a WB-67.

The minimum turning path for interstate semitrailer (WB-67) is provided in Figure 2-24 of the AASHTO A Policy on Geometric Design of Highways and Streets 2018. The minimum turning radius is 45 feet and the width required for a complete u-turn is about 60 feet. If a total surface width (including gravel shoulders/turnouts) is greater than 60 feet, a WB-67 and other road users are expected to be able to easily turn around. If the available surface width is less than 60 feet, it should be noted. A complicated turn may be required, or if a vehicle cannot turn around, the vehicle may be stuck until the highway is reopened. In areas where this would be the case, a flagger should be stationed to assist with traffic management as the turning movement is completed.

---

## Phased Approach to Set Up Temporary Traffic Control

---

The phased approach for implementation of traffic control for all slides includes:

1. Set Initial Lane Closure
2. Reinforce/Complete Local Traffic Control Setup
3. Evaluate Setup and Determine Next Steps

### **ALL LANES CLOSED (WITH I-5 DETOUR ONLY)**

Temporary traffic control should be set up according to ODOT's standards:

If a landslide event occurs that closes all lanes of US 101, follow temporary traffic control guidelines from ODOT's Traffic Standard Drawings TM800 series found at the following link:

<https://www.oregon.gov/odot/Engineering/Pages/Drawings-Traffic.aspx>

If the road closure will be operating for three days or less, review the Oregon Temporary Traffic Control Handbook found at the following link:

<https://www.oregon.gov/ODOT/Engineering/Pages/OTTCH.aspx>

For additional guidance as needed, refer to Part 6: Temporary Traffic Control of the Manual on Uniform Traffic Control Devised for Streets and Highways found at the following link:

<https://mutcd.fhwa.dot.gov/index.htm>



## Phase 1: Set Initial Road Closure

### Step 1 Set initial road closure flagging stations at hard closure locations.

Use the straight line diagrams to determine the hard closure locations for an event. For landslide events in slide area that are not at study locations, utilize the guidance provided to determine locations.

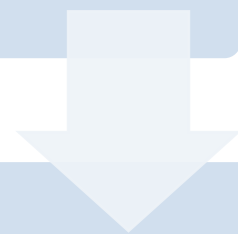
Determine if the flagging stations will utilize flaggers or AFADs.



### Step 2 Traffic control setup for event activity area.

Follow OTTCH and TM800 series for setup.

Use extended queues for both flagging stations.



### Step 3 Setup Priority 1 VMS Boards

Dispatch to contact District TMM's and activate Priority 1 VMS from the US 101 Closure Alert Strategy -.


Contact Caltrans to set up VMS boards at US 101 & Hwy 199 Junction and I-5 at Redding.

## Phase 2: Reinforce/Complete Local Traffic Control Setup

### Step 1 Set soft closure locations.

Use the straight line diagrams to determine the soft closure locations. For landslide events that are not at study locations, use the guidance provided to determine locations.

Use type 3 barricades, barrels, and **"ROAD CLOSED, TO THRU TRAFFIC, LOCAL ACCESS ONLY"** sign [OR11-4a (48"x30" black on white)]. Follow OTTCH and TM800 series for setup.




### Step 2 Set hard closure locations.

Use the straight line diagrams to determine the hard closure locations. For landslide events in slide area that are not at study locations, guidance provided to determine locations.

Use type 3 barricades, barrels, and **"ROAD CLOSED"** sign. Follow OTTCH and TM800 series for setup.

Determine if the flagging stations will utilize flaggers or AFADs.

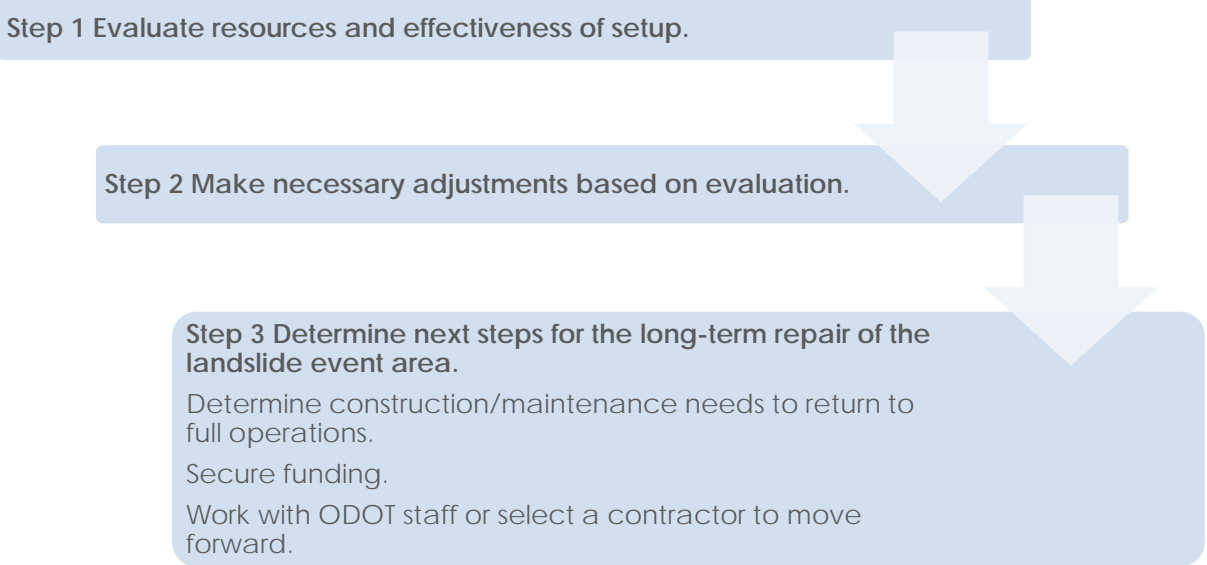


### Step 3 Setup Priority 2 and Priority 3 VMS Boards, as Needed

Dispatch to contact District TMM's and activate Priority 2 and Priority 3 VMS as needed based on the specific event. Follow the US 101 Closure Alert Strategy.

### Phase 3: Evaluate Setup and Determine Next Steps

**Step 1 Evaluate resources and effectiveness of setup.**



**Step 2 Make necessary adjustments based on evaluation.**

**Step 3 Determine next steps for the long-term repair of the landslide event area.**

Determine construction/maintenance needs to return to full operations.

Secure funding.

Work with ODOT staff or select a contractor to move forward.

## PARTIAL LANE CLOSURE (ALLOWS BI-DIRECTIONAL TRAFFIC)

Temporary traffic control should be set up according to ODOT’s standards:

If a landslide event occurs that allows one or two travel lanes to be open for bi-directional traffic, follow temporary traffic control guidelines from ODOT’s Traffic Standard Drawings TM800 series found at the following link:

<https://www.oregon.gov/odot/Engineering/Pages/Drawings-Traffic.aspx>

If the lane closure will be operating for three days or less, review the Oregon Temporary Traffic Control Handbook found at the following link:

<https://www.oregon.gov/ODOT/Engineering/Pages/OTTCH.aspx>

For additional guidance as needed, refer to Part 6: Temporary Traffic Control of the Manual on Uniform Traffic Control Devised for Streets and Highways found at the following link:

<https://mutcd.fhwa.dot.gov/index.htm>

### Phase 1: Set Initial Lane Closure

**Step 1 Set initial lane closure flagging stations on either side of the event activity area.**

Use ODOT’s traffic standard drawings series TM800 to determine location.

Determine if the flagging stations will utilize flaggers or AFADs.



**Step 2 Traffic control setup for event activity area.**

Follow OTTCH and TM800 series for setup.

Use extended queues for both flagging stations.



**Step 3 Dispatch will automatically make request to:**

Contact Motor Carrier and request assistance with any length and time restrictions for US 101 based on the specific traffic control setup needed. Determine if VMS alerts are needed based on any restrictions.

## Phase 2: Reinforce/Complete Local Traffic Control Setup

### Step 1 Traffic control setup on either side of the event activity area.

Follow OTTCH and TM800 series for setup.

Use extended queues for both flagging stations.

## Phase 3: Evaluate Setup and Determine Next Steps

Step 1 Evaluate resources and effectiveness of setup.

Step 2 Make necessary adjustments based on evaluation.

### Step 3 Determine next steps for the long-term repair of the landslide event area.

Determine construction/maintenance needs to return to full operations.

Secure funding.

Work with ODOT staff or select a contractor to move forward.

# HUMBUG MOUNTAIN SLIDE AREA



## Section 1 Humbug Mountain Slide Area

The following section of the TCP outlines protocols for when landslide events occur in the Humbug Mountain slide area. Study landslides in the Humbug Mountain slide area include:

- Retz Creek South Slide.
- Coal Point Slide.
- North Brush Creek Hump.
- Brush Creek Slide.
- Arizona North Slide (part of Arizona Slide Complex)
- Arizona Inn Slide (part of Arizona Slide Complex)
- Christmas Tree Slide (aka Frankport North)
- Sisters Rock Sink
- Frankport Slide (aka Frankport South)
- Woodroof Creek Slide (aka Horneblenzer Slide, Skull Ridge Slide, Squire Slide)

Within the Humbug Mountain slide area, a full closure of US 101 would not have a local detour route available for general traffic. The available detour route would utilize I-5, OR 42/OR 42S, and US 199. The graphic to the right highlights the detour route that would be used for a vehicle traveling between Gold Beach and Port Orford if all lanes of US 101 are closed.



Although there is not an official detour route available, there is a restricted access route for this slide area. Emergency vehicles, construction vehicles, and other ODOT-sanctioned vehicles would be directed to use Elk River Road/NF 5502/Euchre Creek Road during event recovery and as able based on vehicle type to reduce travel times. The restricted access route will not be signed for public use but will remain open for local traffic.

---








## Retz Creek South, Coal Point, and North Brush Creek Hump Slides

---


- **Retz Creek South Slide.** Located at approximately MP 304.72 and impacts approximately 950 feet of US 101. Within this area, US 101 has three travel lanes.
- **Coal Point Slide.** Located at approximately MP 305.53 and impacts approximately 640 feet of US 101. Within this area, US 101 has two travel lanes.
- **North Brush Creek Hump.** Located at approximately MP 306.12 and impacts approximately 430 feet of US 101. Within this area, US 101 has three travel lanes.



# Retz Creek South, Coal Point, and North Brush Creek Hump Slides

-  Hard Closure
-  Soft Closure
-  Landslide Area
-  US 101
-  Potential Detour
-  Buildings
-  Other Road

0 1,750 3,500 ft



PCMS on US 101 between Jefferson St. and Cemetery Loop Rd. (Port Orford Visitor's Center, MP 301.4). Display message: US 101 Closed 4 Miles Ahead / Local Access Only

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure at Port Orford Lookout (MP 303.6)

**ROAD CLOSED**

Hard closure south of driveway to house number 40495 (MP 304.6)  
\*Note: Work zone may require hard closure to restrict access to driveway

Retz Creek South Landslide

Coal Point Landslide

North Brush Creek Hump Landslide

**ROAD CLOSED**

Hard closure north of Humbug Mt. State Park entrance (MP 307.0)

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure north of gravel turn-around (MP 308.4)

PCMS on US 101 north of Nesika Rd. in Nesika Beach. Display message: US 101 Closed 5 Miles Ahead / Local Access Only (MP 320.9)



Humbug Mountain Day Use at Bruch Creek (MP 307.7) – Northbound traffic



Port Orford Lookout (MP 303.6) – Southbound traffic

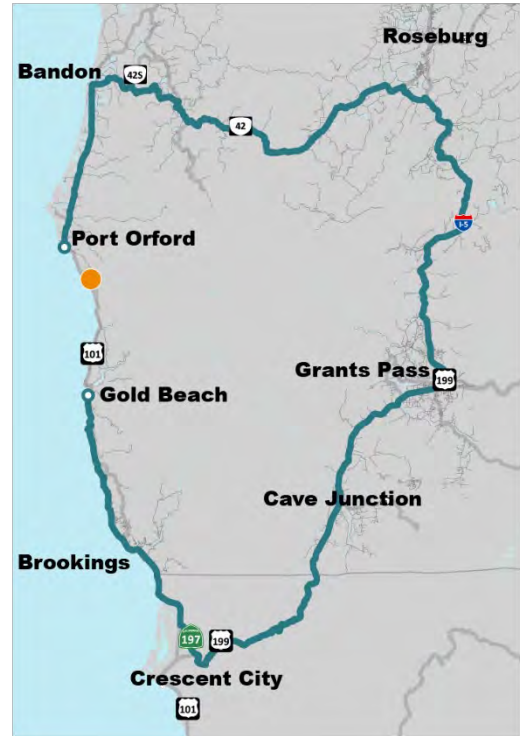


---

## Brush Creek

---

The Brush Creek slide is located at approximately MP 307.10 and impacts approximately 60 feet of US 101. Within this area, US 101 has two travel lanes.



# Brush Creek Landslide

PCMS on US 101 between Jefferson St. and Cemetery Loop Rd. (Port Orford Visitor's Center, MP 301.4). Display message: US 101 Closed 6 Miles Ahead / Local Access Only

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure south of Port Orford Lookout turnout (MP 303.6)

**ROAD CLOSED**

Hard closure south of Humbug Mt. State Park entrance (MP 307.0)

**Brush Creek Landslide**

**ROAD CLOSED**

Hard closure north of Humbug Mt. Day Use at Brush Creek (MP 307.7)

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure north of gravel turnout (MP 310.4)

PCMS on US 101 north of Nesika Rd. in Nesika Beach. Display message: US 101 Closed 13 Miles Ahead / Local Access Only (MP 320.9)

- Hard Closure
- Soft Closure
- Landslide Area
- US 101
- Potential Detour
- Buildings
- Other Road

0 1,750 3,500 ft



Humbug Mountain Day Use at Bruch Creek (MP 307.7) – Northbound traffic



Gravel turnout (310.4) – Northbound traffic



---

## Arizona North Slide (part of Arizona Slide Complex)

---

- Arizona North Slide is located at approximately MP 312.00 and impacts approximately 1,480 feet of US 101. Within this area, US 101 has three travel lanes.
- Arizona Inn Slide is located at approximately MP 312.39 and impacts approximately 1,270 feet of US 101. Within this area, US 101 has three travel lanes.



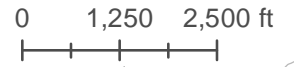
# Arizona North and Arizona Inn Landslides

PCMS on US 101 between Jefferson St. and Cemetery Loop Rd. (Port Orford Visitor's Center, MP 301.4). Display message: US 101 Closed 11 Miles Ahead / Local Access Only



Soft closure south of gravel turnout (MP 310.4)

- Hard Closure
- Soft Closure
- Landslide Area
- US 101
- Potential Detour
- Buildings
- Other Road



Hard closure north of driveway to house number 38070 (MP 311.9)

\*Note: Work zone may require hard closure to restrict access to driveway

Arizona North Landslide

Arizona Inn Landslide



Hard closure north of Arizona Ranch Rd. (MP 313.1)

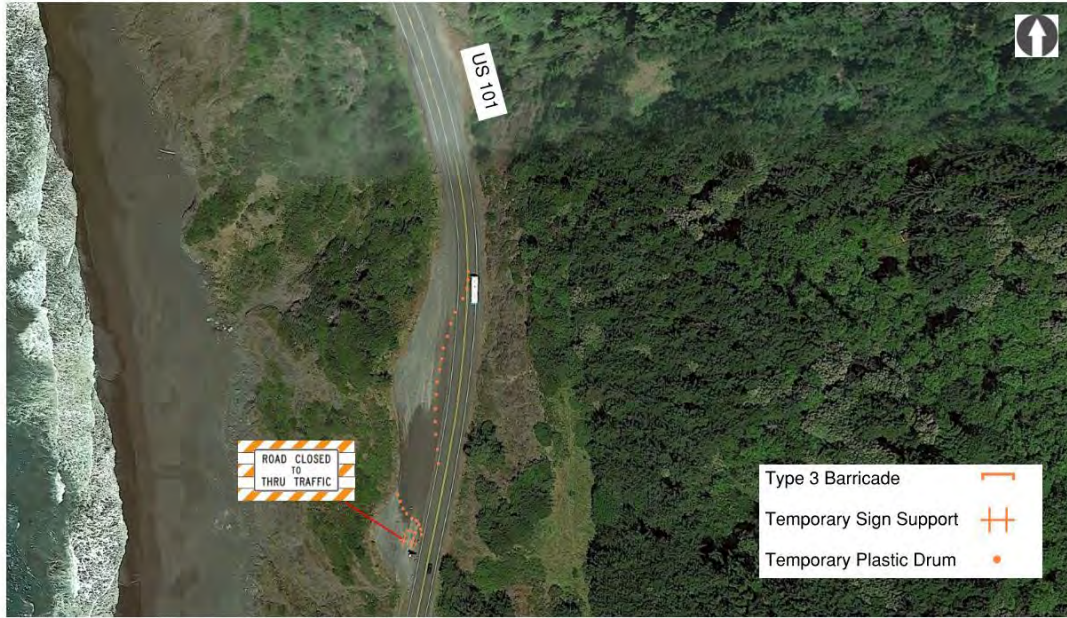


Soft closure at Sisters Rocks South Trailhead (MP 314.8)

PCMS on US 101 north of Nesika Rd. in Nesika Beach. Display message: US 101 Closed 8 Miles Ahead / Local Access Only (MP 320.9)



Gravel turnout (310.4) – Southbound traffic



Sisters Rocks South Trailhead (MP 314.8) – Northbound traffic





---

## Christmas Tree Slide (aka Frankport North)









---

Christmas Tree Slide is located at approximately MP 314.10 and impacts approximately 310 feet of US 101. Within this area, US 101 has two travel lanes.



PCMS on US 101 between Jefferson St. and Cemetery Loop Rd. (Port Orford Visitor's Center, MP 301.4). Display message: US 101 Closed 13 Miles Ahead / Local Access Only

# Christmas Tree Landslide

-  Hard Closure
  -  Soft Closure
  -  Landslide Area
  -  US 101
  -  Potential Detour
  -  Buildings
  -  Other Road
- 0 1,250 2,500 ft
- 



Soft closure south of Arizona Ranch Rd. (MP 313.1)

MP 313



Hard closure south of Pigeon Point Rd. (MP 314.0)

MP 314

Christmas Tree Landslide



Hard closure north of Sisters Rocks North Trailhead (MP 314.5)

MP 315



Soft closure north of Euchre Creek Rd. (MP 316.9)

MP 317

Coy Creek Rd.

PCMS on US 101 north of Nesika Rd. in Nesika Beach. Display message: US 101 Closed 6 Miles Ahead / Local Access Only (MP 320.9)



Arizona Ranch Road (MP 313.1) – Southbound traffic



Euchre Creek Road (MP 316.9) – Northbound traffic



---

## Sisters Rock Sink








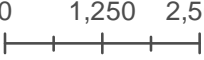
---

Sisters Rock Sink is located at approximately MP 314.32 and impacts approximately 320 feet of US 101. Within this area, US 101 has two travel lanes.



# Sisters Rock Sink

PCMS on US 101 between Jefferson St. and Cemetery Loop Rd. (Port Orford Visitor's Center, MP 301.4). Display message: US 101 Closed 13 Miles Ahead / Local Access Only

-  Hard Closure
  -  Soft Closure
  -  Landslide Area
  -  US 101
  -  Potential Detour
  -  Buildings
  -  Other Road
- 0 1,250 2,500 ft
- 

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure south of Arizona Ranch Rd. (MP 313.1)

MP 313

**ROAD CLOSED**

Hard closure south of driveway to house number 36475 (MP 314.1)  
\*Note: Work zone may require hard closure to restrict access to driveway

MP 314

Sisters Rock Sink

**ROAD CLOSED**

Hard closure north of Sisters Rocks North Trailhead (MP 314.5)

MP 315

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure north of Euchre Creek Rd. (MP 316.9)

MP 317

Coy Creek Rd.

PCMS on US 101 north of Nesika Rd. in Nesika Beach. Display message: US 101 Closed 6 Miles Ahead / Local Access Only (MP 320.9)



Arizona Ranch Road (MP 313.1) – Southbound traffic



Euchre Creek Road (MP 316.9) – Northbound traffic

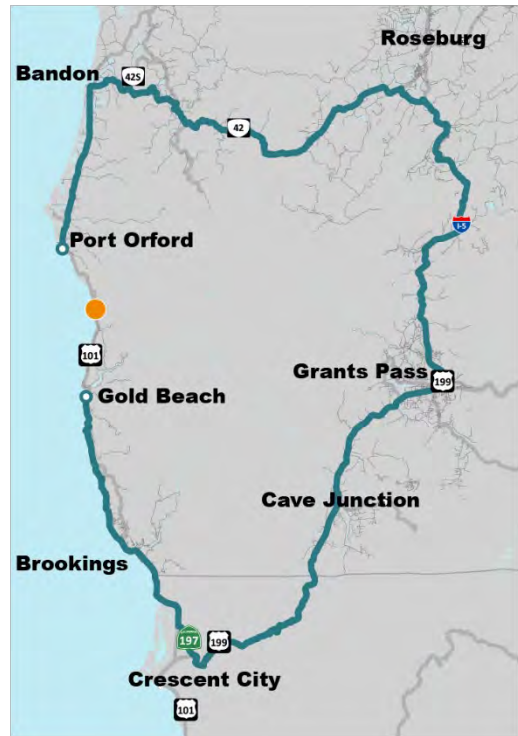


---

## Frankport Slide (aka Frankport South)

---

Frankport Slide is located at approximately MP 314.79 and impacts approximately 430 feet of US 101. Within this area, US 101 has two travel lanes.



# Frankport South Landslide

PCMS on US 101 between Jefferson St. and Cemetery Loop Rd. (Port Orford Visitor's Center, MP 301.4). Display message: US 101 Closed 13 Miles Ahead / Local Access Only



Soft closure south of Arizona Ranch Rd. (MP 313.1)



Hard closure south of Sisters Rocks North Trailhead (MP 314.5)

Frankport South Landslide



Hard closure at driveway to house number 36044 (MP 315.1)



Soft closure north of Euchre Creek Rd. (MP 316.9)

PCMS on US 101 north of Nesika Rd. in Nesika Beach. Display message: US 101 Closed 6 Miles Ahead / Local Access Only (MP 320.9)

- Hard Closure
  - Soft Closure
  - Landslide Area
  - US 101
  - Potential Detour
  - Buildings
  - Other Road
- 0 1,250 2,500 ft





Arizona Ranch Road (MP 313.1) – Southbound traffic



Euchre Creek Road (MP 316.9) – Northbound traffic



---

## Woodroof Creek Slide (aka Horneblenzer Slide, Skull Ridge Slide, Squire Slide)

---

Woodroof Creek Slide is located at approximately MP 315.93 and impacts approximately 320 feet of US 101. Within this area, US 101 has three travel lanes.



# Woodroof Creek Landslide

PCMS on US 101 between Jefferson St. and Cemetery Loop Rd. (Port Orford Visitor's Center, MP 301.4). Display message: US 101 Closed 15 Miles Ahead / Local Access Only



Soft closure south of Arizona Ranch Rd. (MP 313.1)

- Hard Closure
  - Soft Closure
  - Landslide Area
  - US 101
  - Potential Detour
  - Buildings
  - Other Road
- 0 1,250 2,500 ft



Hard closure at driveway to house number 35690 (MP 315.7)

Woodroof Creek Landslide



Hard closure at north end of gravel turnout (MP 316.2)



Soft closure north of Euchre Creek Rd. (MP 316.9)

PCMS on US 101 north of Nesika Rd. in Nesika Beach. Display message: US 101 Closed 5 Miles Ahead / Local Access Only (MP 320.9)

MP 317  
Coy Creek Rd.



Arizona Ranch Road (MP 313.1) – Southbound traffic



Euchre Creek Road (MP 316.9) – Northbound traffic



---

## US 101 Closure Alert Strategy

---

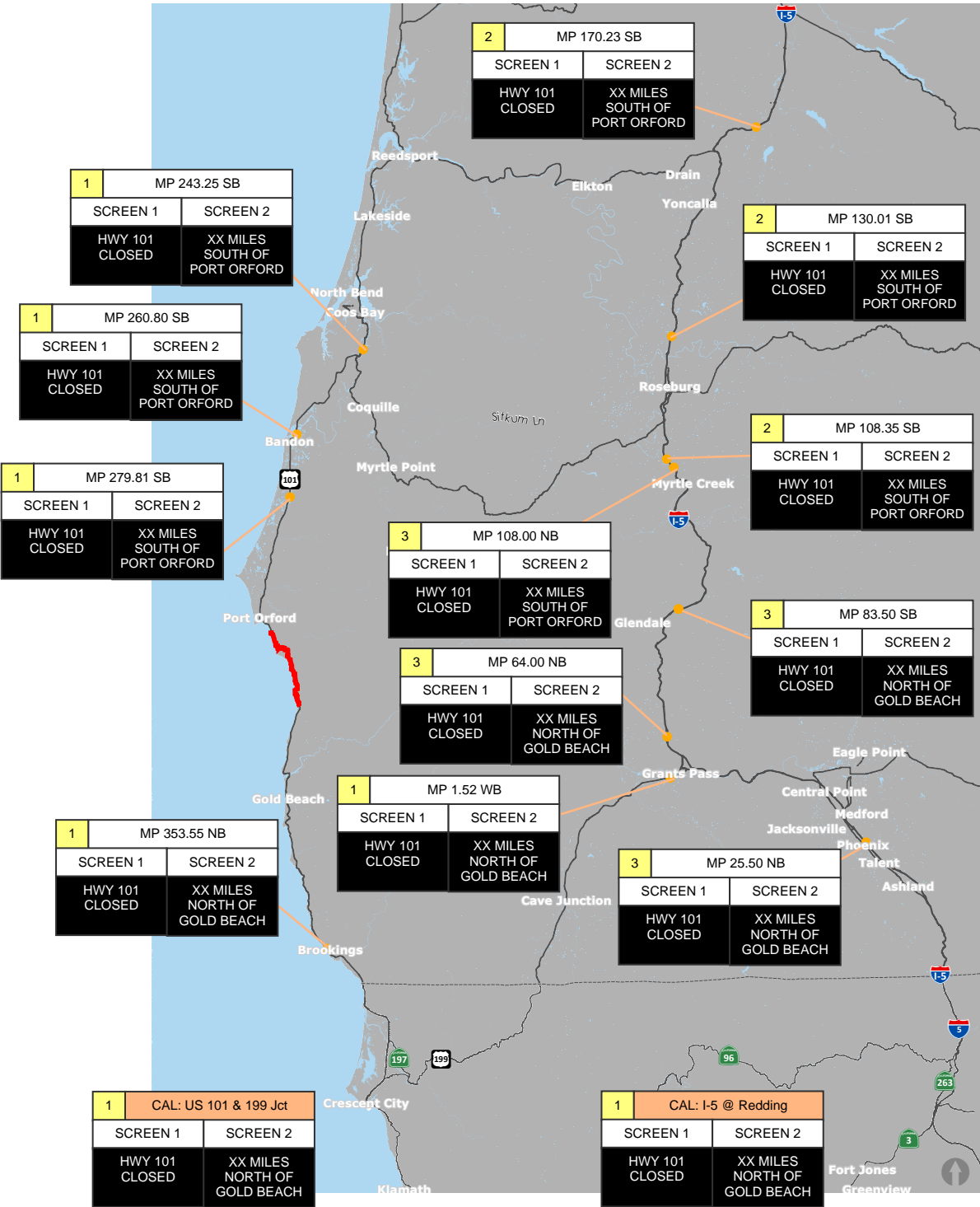
The following graphic shows the closure alert strategy to use across Region 3 and California highways if a full roadway closure occurs in the Humbug Mountain slide area. Use the ODOT Variable Message (VMS) Sign Operations Manual to help implement the US 101 Closure Alert Strategy shown in the map below.

([https://www.oregon.gov/odot/Engineering/Documents\\_TrafficStandards/VMS-Guidelines.pdf](https://www.oregon.gov/odot/Engineering/Documents_TrafficStandards/VMS-Guidelines.pdf))

---

# US 101 Closure Alert Strategy - Humbug Mountain Landslide Area

US 101 Closure from MP 303.6 to MP 316.7



= US 101 Closure Area

?	MP XX.XX
SCREEN 1	SCREEN 2
HWY 101 CLOSED	XX MILES SOUTH OF XXXXX

= Variable Message Sign (VMS) Locations

- |   |
|---|
| 1 |
|---|

 Priority #1 - VMS in place or working towards setting up when closure is expected to cause delays.
- |   |
|---|
| 2 |
|---|

 Priority #2 - After Priority #1 boards in place, set up when delays/closures are expected to be longer than 3 hours.
- |   |
|---|
| 3 |
|---|

 Priority #3 - Set up when delays/closures expected to exceed 12 hours.

# EIGHTY ACRES SLIDE AREA



Section 2 Eighty Acres Slide Area

Eighty Acres Slide is located at approximately MP 332.55 and impacts approximately 270 feet of US 101. Within this area, US 101 has three travel lanes.

Within the Eighty Acres slide area, a full closure of US 101 would not have a local detour route available for general traffic. The available detour route would utilize I-5, OR 42/OR 42S, and US 199. The graphic to the right highlights the detour route that would be used for a vehicle traveling between Gold Beach and Brookings if all lanes of US 101 are closed.

In addition, there is not an available restricted access route for this slide area. Emergency vehicles, construction vehicles, and other ODOT-sanctioned vehicles would also utilize the official detour route.



# Eighty Acres Landslide

PCMS on US 101 south of Shirley Ln. (Gold Beach Visitor's Center). Display message: US 101 Closed 3 Miles Ahead / Local Access Only (MP 329.8)



Soft closure south of Hunter Creek Rd. (MP 331.1)



Hard closure at driveway to house number 27789 (MP 332.5)



Hard closure at driveway to houses including 27727 (MP 332.6)  
\*Note: Work zone may require hard closure to restrict access to driveway



Soft closure north of Cape View Loop (MP 334.8)  
\*Note: Turnout is not available.

PCMS on US 101 south of Meyers Creek Rd. Display message: US 101 Closed 4 Miles Ahead / Local Access Only (MP 337.0)

Gold Beach

MP 330

MP 331

MP 332

MP 333

MP 333

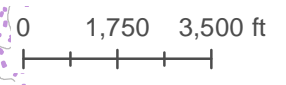
MP 334

MP 335

MP 336

MP 337

- Hard Closure
- Soft Closure
- Landslide Area
- US 101
- Potential Detour
- Buildings
- Other Road

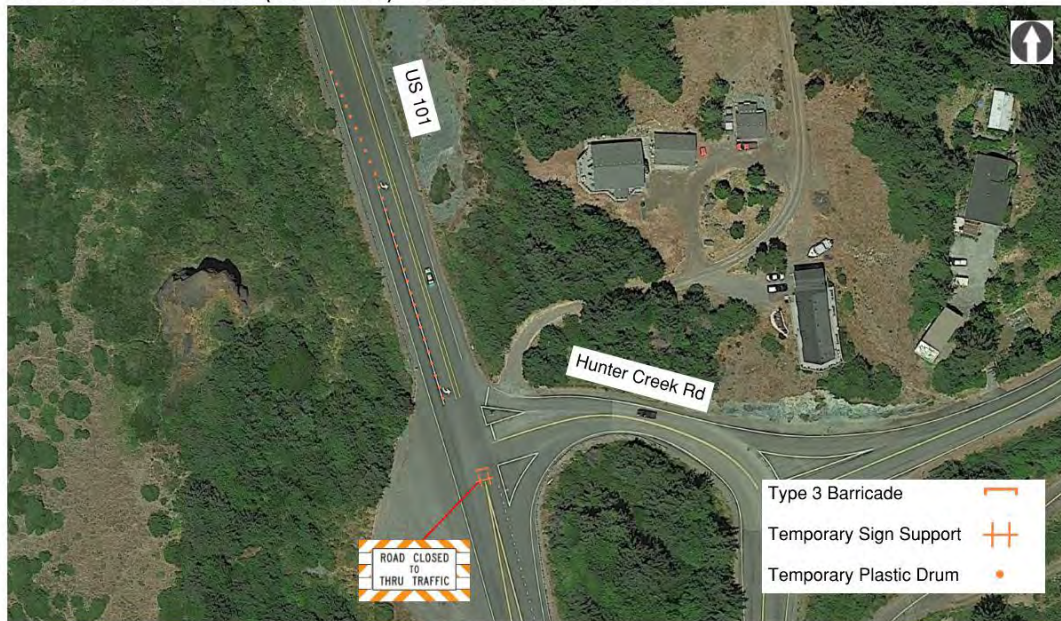


Cape View Loop





Hunter Creek Road (MP 331.1) – Southbound traffic



Cape View Loop (MP 334.8) – Northbound traffic



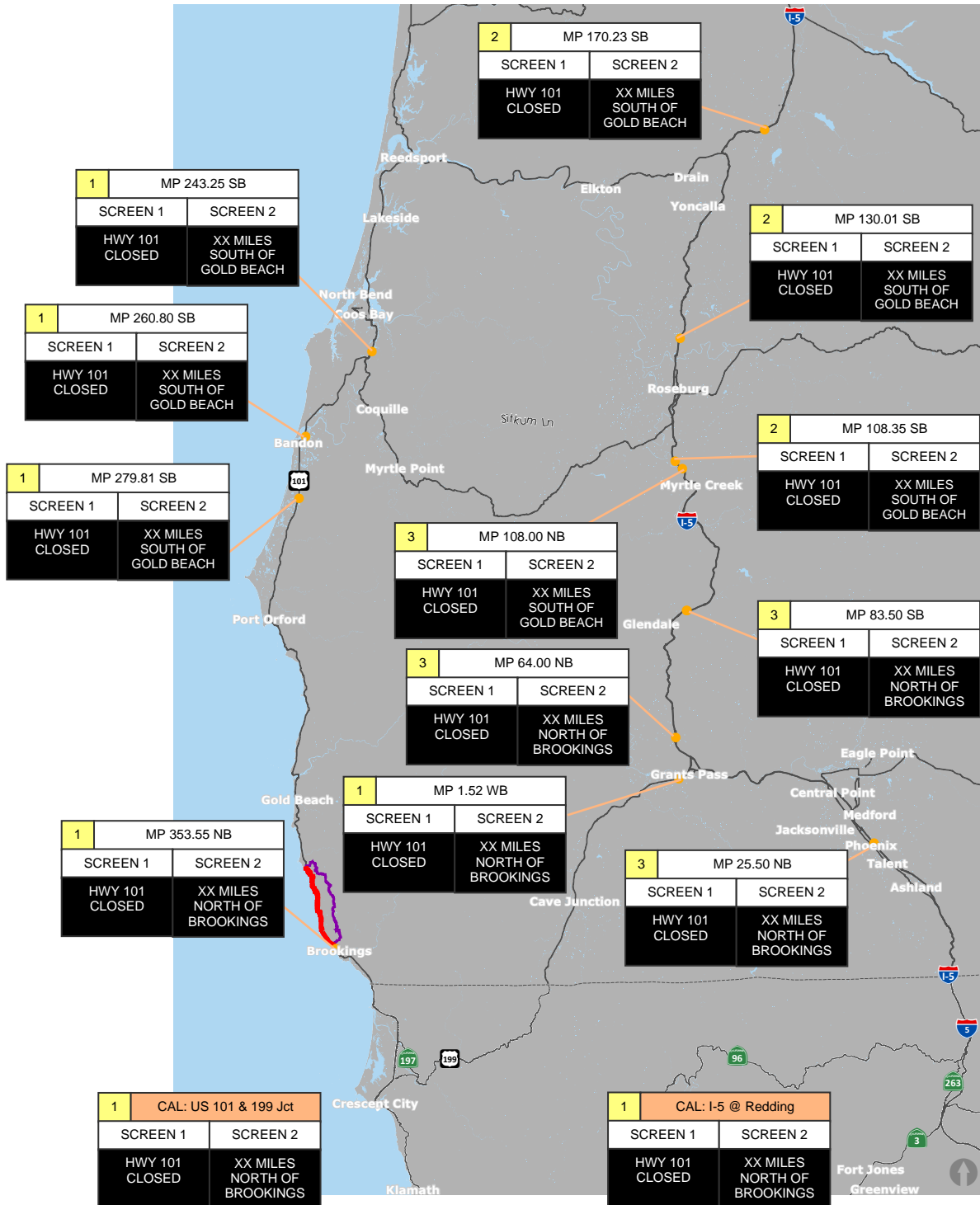
## US 101 Closure Alert Strategy

The following graphic shows the closure alert strategy to use across Region 3 and California highways if a full roadway closure occurs in the Eighty Acres slide area.

Utilize the ODOT Variable Message (VMS) Sign Operations Manual ([https://www.oregon.gov/odot/Engineering/Documents\\_TrafficStandards/VMS-Guidelines.pdf](https://www.oregon.gov/odot/Engineering/Documents_TrafficStandards/VMS-Guidelines.pdf)) to help implement the US 101 Closure Alert Strategy shown in the map below.

# US 101 Closure Alert Strategy - Hooskanaden Landslide Area with Detour

## US 101 Closure from MP 339.7 to MP 354.8



= US 101 Closure Area  
= Detour Route

?	MP XX.XX
SCREEN 1	SCREEN 2
HWY 101 CLOSED	XX MILES SOUTH OF XXXXX

= Variable Message Sign (VMS) Locations

1

Priority #1 - VMS in place or working towards setting up when closure is expected to cause delays.

2

Priority #2 - After Priority #1 boards in place, set up when delays/closures are expected to be longer than 3 hours.

3

Priority #3 - Set up when delays/closures expected to exceed 12 hours.

# HOOSKANADEN SLIDE AREA



## Section 3 Hooskanaden Slide Area

Study landslides in the Hooskanaden slide area include:

- Burnt Hill Slide
- Hooskanaden Slide

Within the Hooskanaden slide area, there is a local detour route option for general traffic if there is a full closure of US 101: Carpenterville Highway. There is no available restricted access route for this slide area. Emergency vehicles, construction vehicles, and other ODOT-sanctioned vehicles would also utilize the official detour route.

Although Carpenterville Highway is a detour route option, the roadway is also on unstable slopes and may be impacted by a landslide event at the same time as one of the landslides on US 101 in the area. Therefore, next scenario covers the traffic control needs if both US 101 and Carpenterville Highway have full road closures within the Hooskanaden slide area.

---

## Burnt Hill Slide

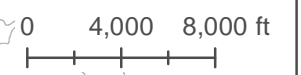
---

Burnt Hill Slide is located at approximately MP 342.55 and impacts approximately 640 feet of US 101. Within this area, US 101 has three travel lanes.



# Burnt Hill Landslide

- Hard Closure
- Soft Closure
- Landslide Area
- US 101
- Potential Detour
- Buildings
- Other Road



PCMS on US 101 south of Shirley Ln. (Gold Beach Visitor's Center).  
Display message: US 101 Closed 13 Miles Ahead / Local Access Only (MP 329.8)

**ROAD CLOSED TO THRU TRAFFIC**  
Soft closure and detour routing at Carpenterville Hwy. (MP 339.7)

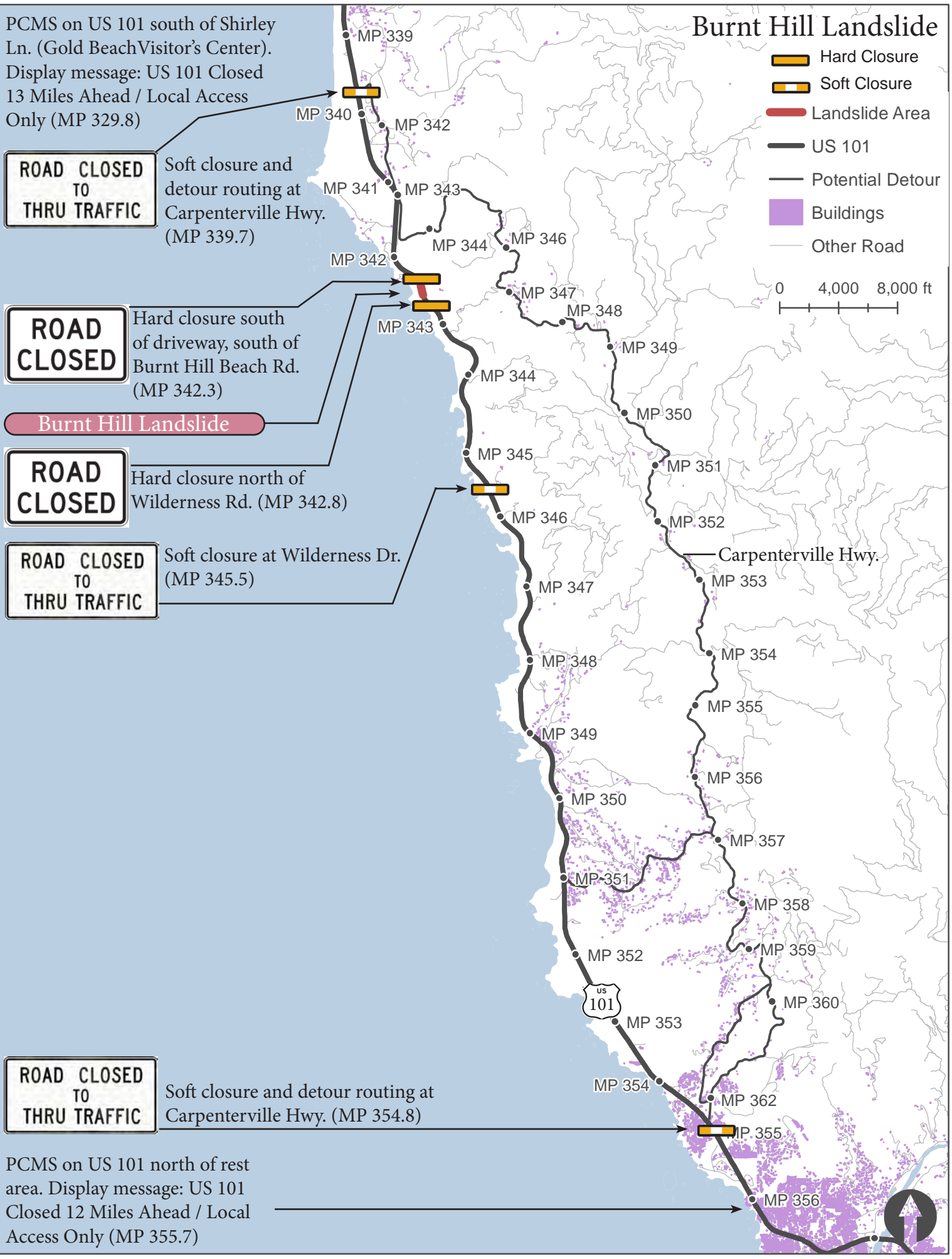
**ROAD CLOSED**  
Hard closure south of driveway, south of Burnt Hill Beach Rd. (MP 342.3)

**ROAD CLOSED**  
Hard closure north of Wilderness Rd. (MP 342.8)

**ROAD CLOSED TO THRU TRAFFIC**  
Soft closure at Wilderness Dr. (MP 345.5)

**ROAD CLOSED TO THRU TRAFFIC**  
Soft closure and detour routing at Carpenterville Hwy. (MP 354.8)

PCMS on US 101 north of rest area. Display message: US 101 Closed 12 Miles Ahead / Local Access Only (MP 355.7)



### Detour Routing at Carpenterville Highway (MP 339.7) – Southbound traffic



### Wilderness Drive (MP 345.5) – Northbound traffic **with detour**



PCMS on US 101 south of Shirley Ln. (Gold Beach Visitor's Center).  
 Display message: US 101 Closed 14 Miles Ahead / Local Access Only (MP 329.8)

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure at Carpenterville Hwy. (MP 339.7)

**ROAD CLOSED**

Hard closure south of driveway, south of Burnt Hill Beach Rd. (MP 342.3)

**ROAD CLOSED**

Hard closure north of Wilderness Rd. (MP 342.8)

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure at Wilderness Dr. (MP 345.5)








**ROAD CLOSED TO THRU TRAFFIC**

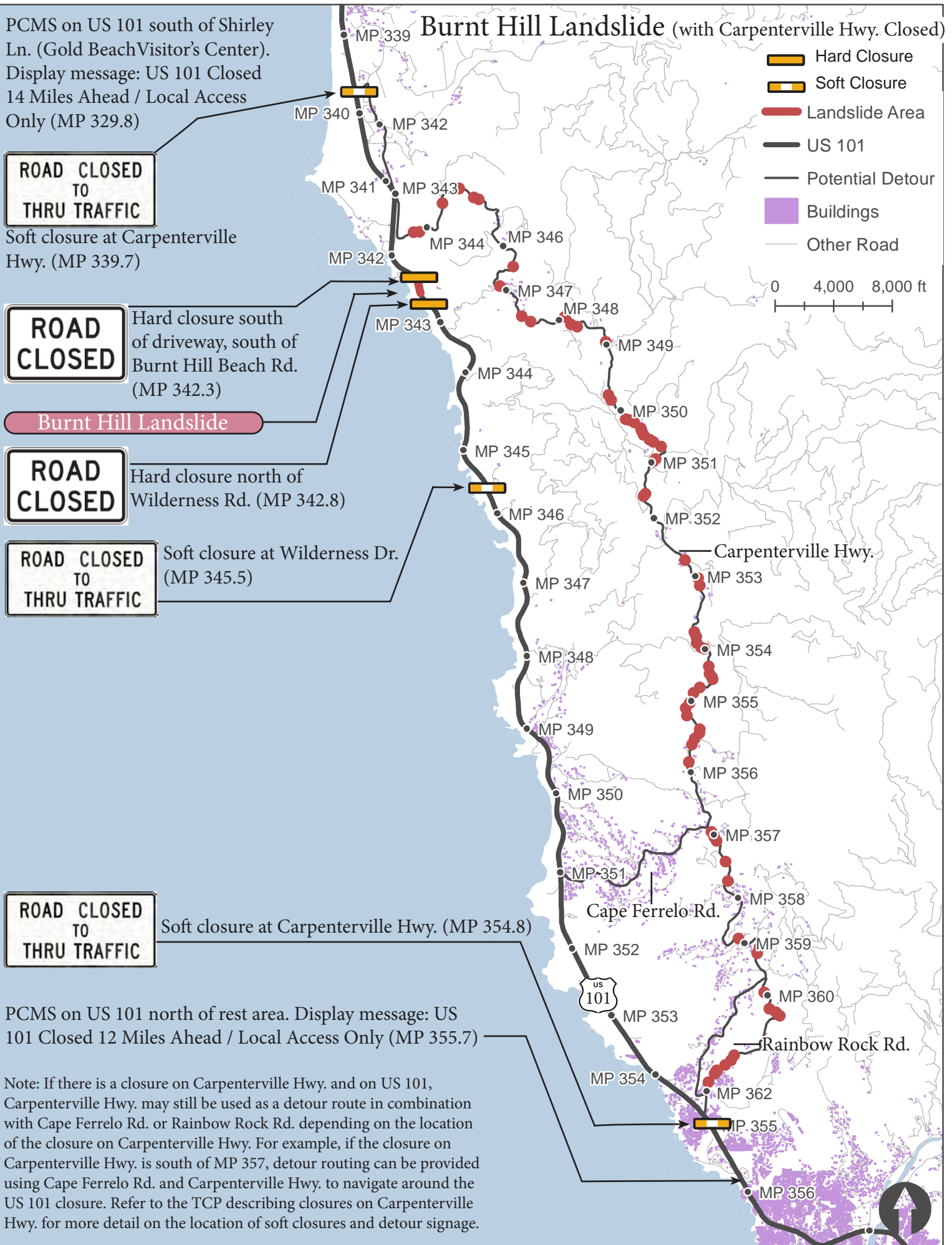
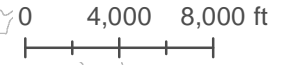
Soft closure at Carpenterville Hwy. (MP 354.8)

PCMS on US 101 north of rest area. Display message: US 101 Closed 12 Miles Ahead / Local Access Only (MP 355.7)

Note: If there is a closure on Carpenterville Hwy. and on US 101, Carpenterville Hwy. may still be used as a detour route in combination with Cape Ferrelo Rd. or Rainbow Rock Rd. depending on the location of the closure on Carpenterville Hwy. For example, if the closure on Carpenterville Hwy. is south of MP 357, detour routing can be provided using Cape Ferrelo Rd. and Carpenterville Hwy. to navigate around the US 101 closure. Refer to the TCP describing closures on Carpenterville Hwy. for more detail on the location of soft closures and detour signage.

# Burnt Hill Landslide (with Carpenterville Hwy. Closed)

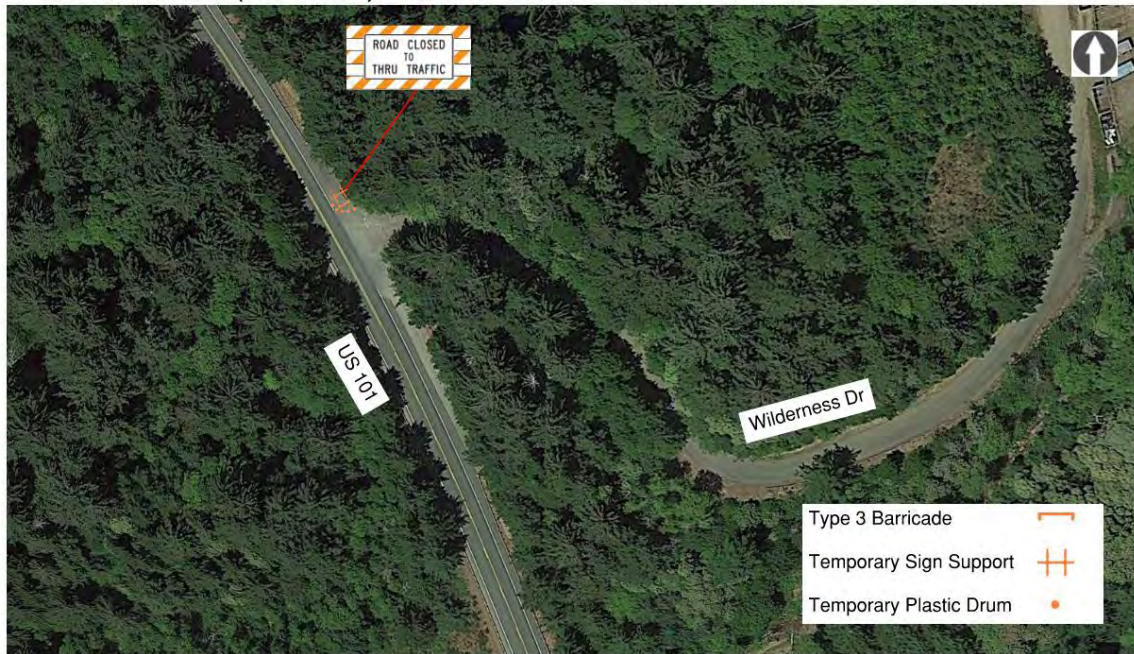
-  Hard Closure
-  Soft Closure
-  Landslide Area
-  US 101
-  Potential Detour
-  Buildings
-  Other Road



**Soft Closure** at Carpenterville Highway (MP 339.7) – Southbound traffic

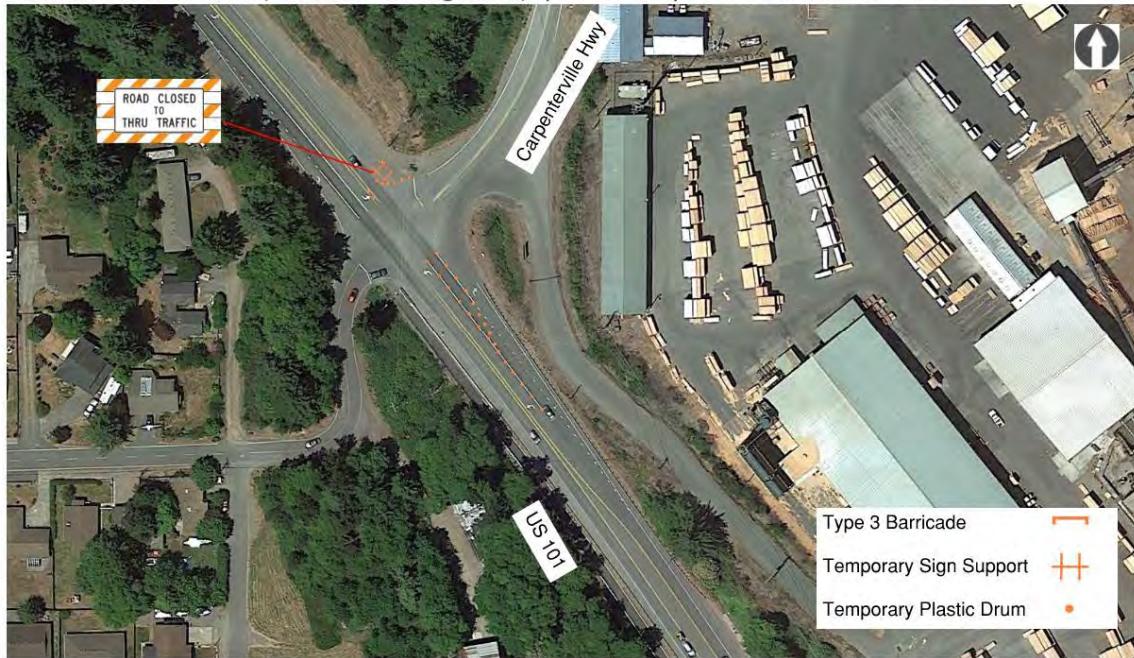


Wilderness Drive (MP 345.5) – Northbound traffic





### Soft Closure at Carpenterville Highway (MP 354.8) – Northbound traffic



## Hooskanaden Slide

Hooskanaden Slide is located at approximately MP 343.63 and impacts approximately 1,300 feet of US 101. Within this area, US 101 has three travel lanes. Straightline diagrams show the traffic control with an available detour route (Carpenterville Highway) and without one.



# Hooskanaden Landslide

- Hard Closure
- Soft Closure
- Landslide Area
- US 101
- Potential Detour
- Buildings
- Other Road

0 4,000 8,000 ft

PCMS on US 101 south of Shirley Ln. (Gold Beach Visitor's Center).  
Display message: US 101 Closed 14 Miles Ahead / Local Access Only (MP 329.8)

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure and detour routing at Carpenterville Hwy. (MP 339.7)

**ROAD CLOSED**

Hard closure south of Burnt Hill Beach Rd. (MP 342.8)

**Hooskanaden Landslide**

**ROAD CLOSED**

Hard closure north of Arch Rock State Park (MP 344.5)

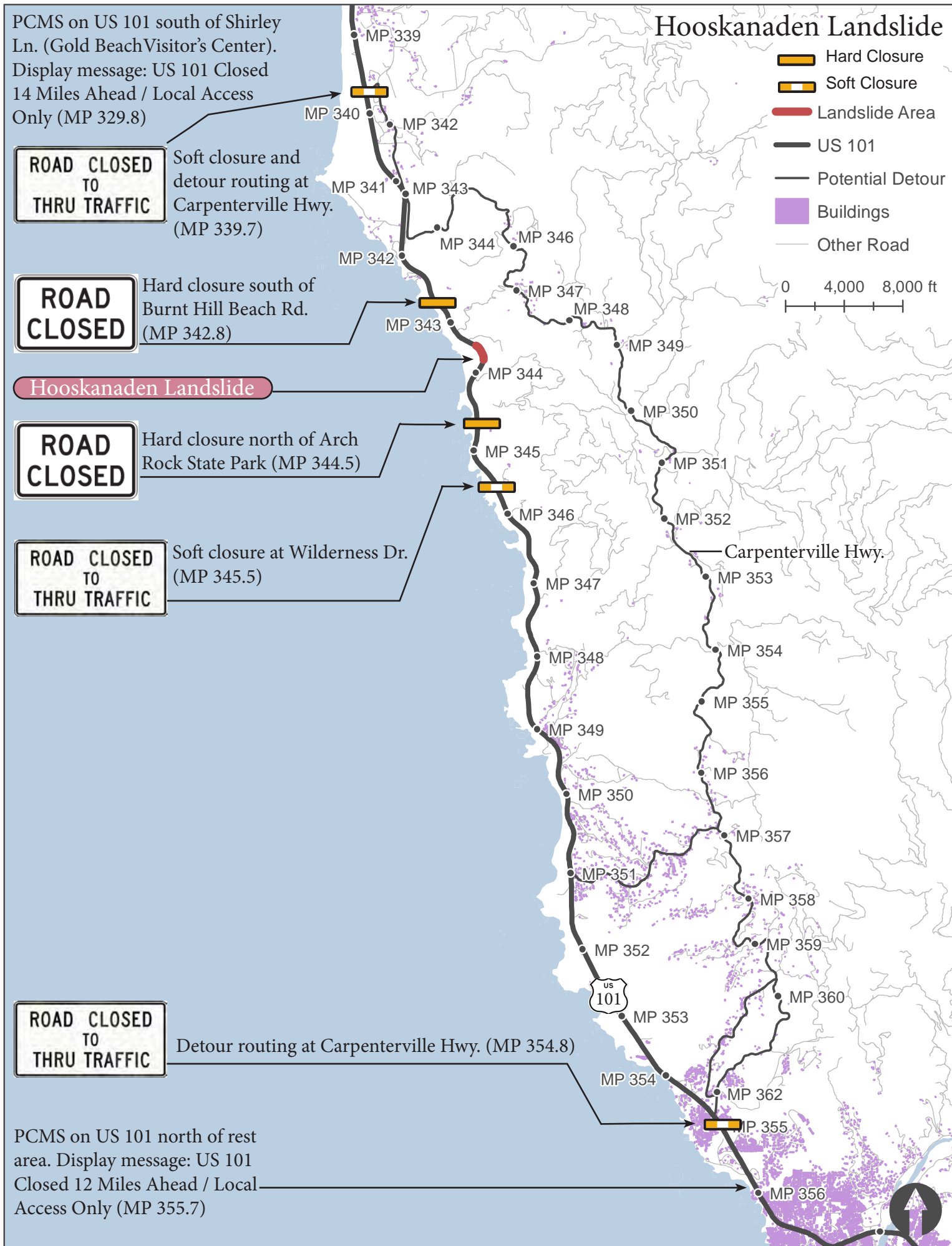
**ROAD CLOSED TO THRU TRAFFIC**

Soft closure at Wilderness Dr. (MP 345.5)

**ROAD CLOSED TO THRU TRAFFIC**

Detour routing at Carpenterville Hwy. (MP 354.8)

PCMS on US 101 north of rest area. Display message: US 101 Closed 12 Miles Ahead / Local Access Only (MP 355.7)



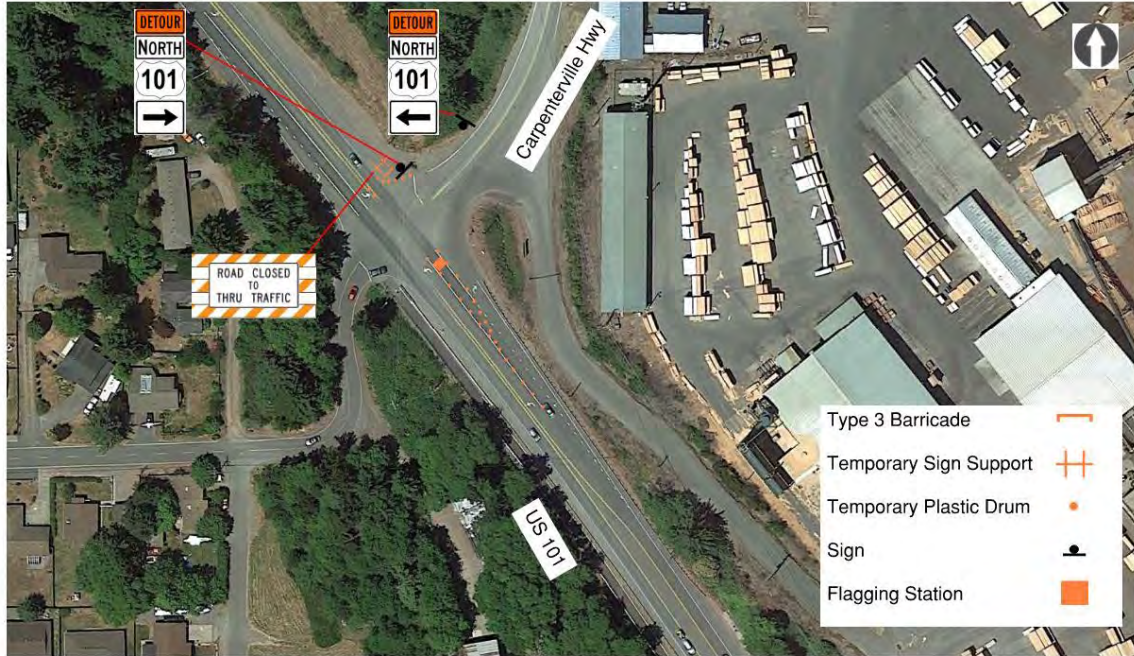
### Detour Routing at Carpenterville Highway (MP 339.7) – Southbound traffic



### Wilderness Drive (MP 345.5) – Northbound traffic **with detour**










**Detour Routing** at Carpenterville Highway (MP 354.8) – Northbound traffic



PCMS on US 101 south of Shirley Ln. (Gold Beach Visitor's Center).  
 Display message: US 101 Closed  
 13 Miles Ahead / Local Access  
 Only (MP 329.8)

# Hooskanaden Landslide (with Carpenterville Hwy. Closed)

-  Hard Closure
-  Soft Closure
-  Landslide Area
-  US 101
-  Potential Detour
-  Buildings
-  Other Road

0 4,000 8,000 ft

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure at Carpenterville Hwy. (MP 339.7)

**ROAD CLOSED**

Hard closure south of Burnt Hill Beach Rd. (MP 342.8)

**Hooskanaden Landslide**

**ROAD CLOSED**

Hard closure north of Arch Rock State Park (MP 344.5)

**ROAD CLOSED TO THRU TRAFFIC**

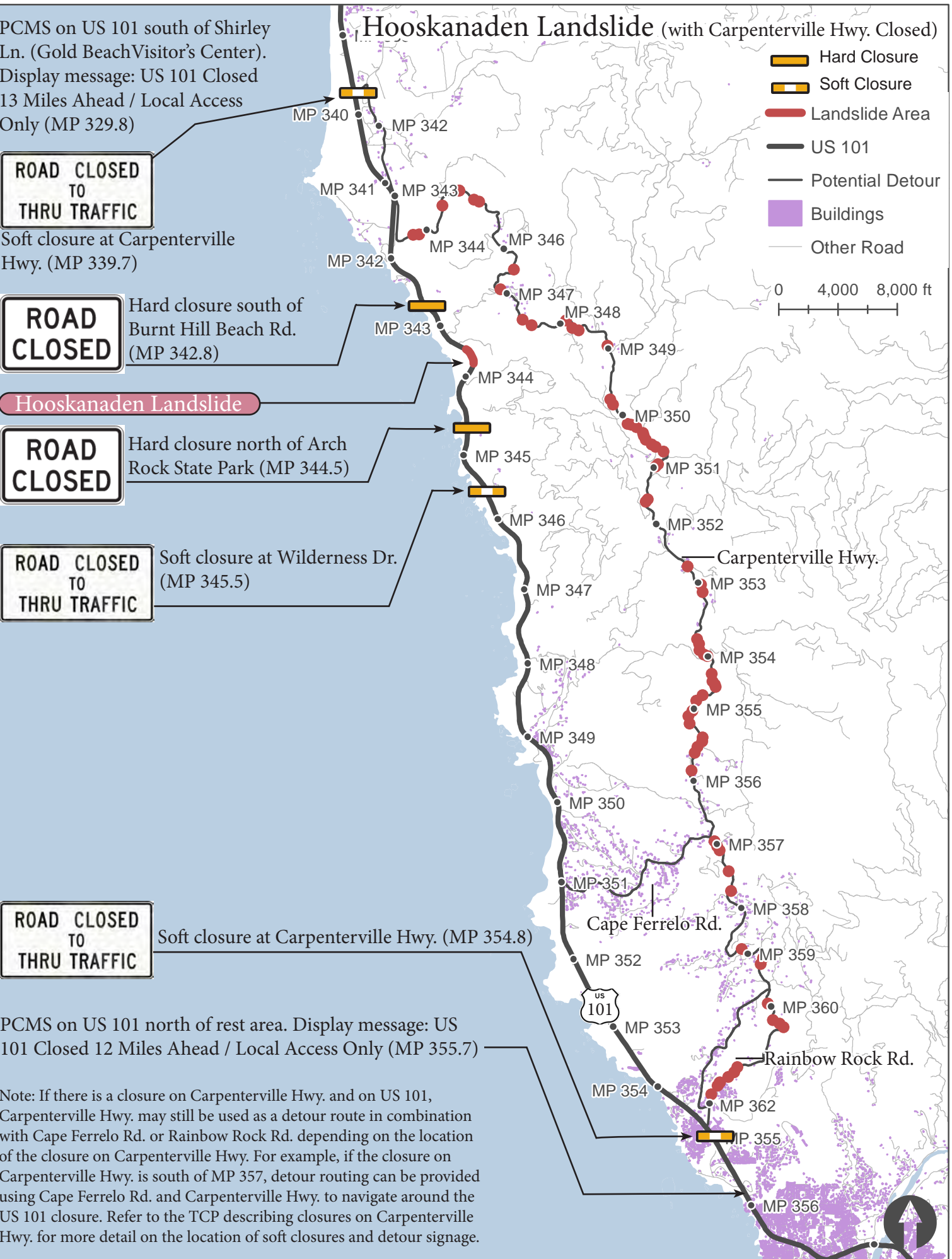
Soft closure at Wilderness Dr. (MP 345.5)

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure at Carpenterville Hwy. (MP 354.8)

PCMS on US 101 north of rest area. Display message: US 101 Closed 12 Miles Ahead / Local Access Only (MP 355.7)

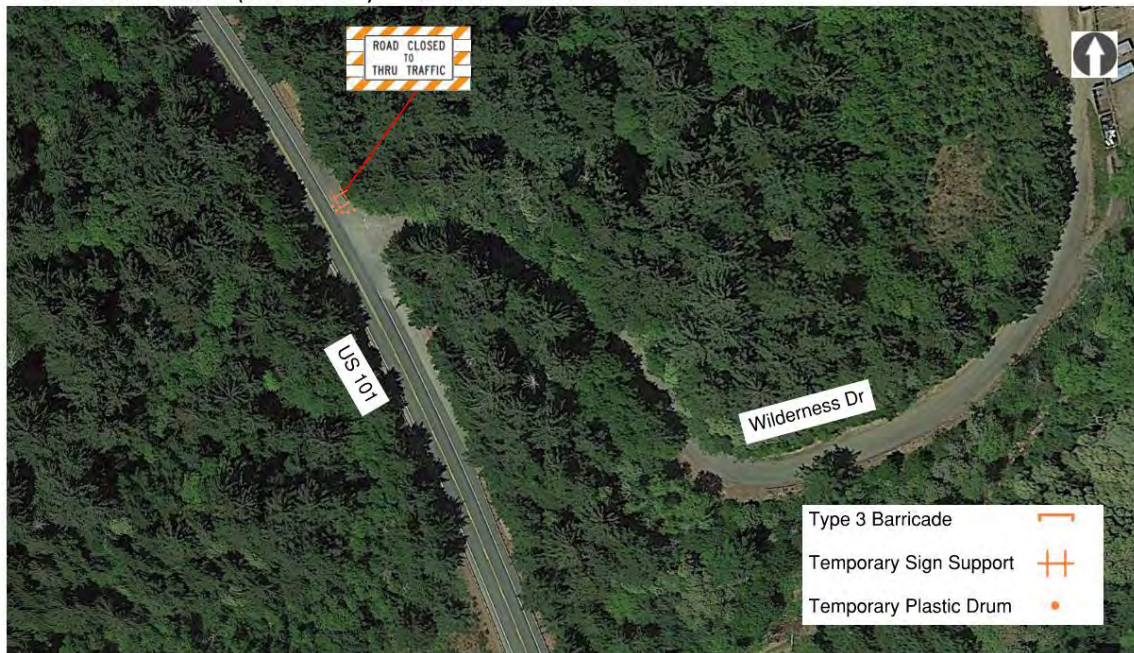
Note: If there is a closure on Carpenterville Hwy. and on US 101, Carpenterville Hwy. may still be used as a detour route in combination with Cape Ferrelo Rd. or Rainbow Rock Rd. depending on the location of the closure on Carpenterville Hwy. For example, if the closure on Carpenterville Hwy. is south of MP 357, detour routing can be provided using Cape Ferrelo Rd. and Carpenterville Hwy. to navigate around the US 101 closure. Refer to the TCP describing closures on Carpenterville Hwy. for more detail on the location of soft closures and detour signage.



**Soft Closure** at Carpenterville Highway (MP 339.7) – Southbound traffic



Wilderness Drive (MP 345.5) – Northbound traffic



---

## US 101 Closure Alert Strategy

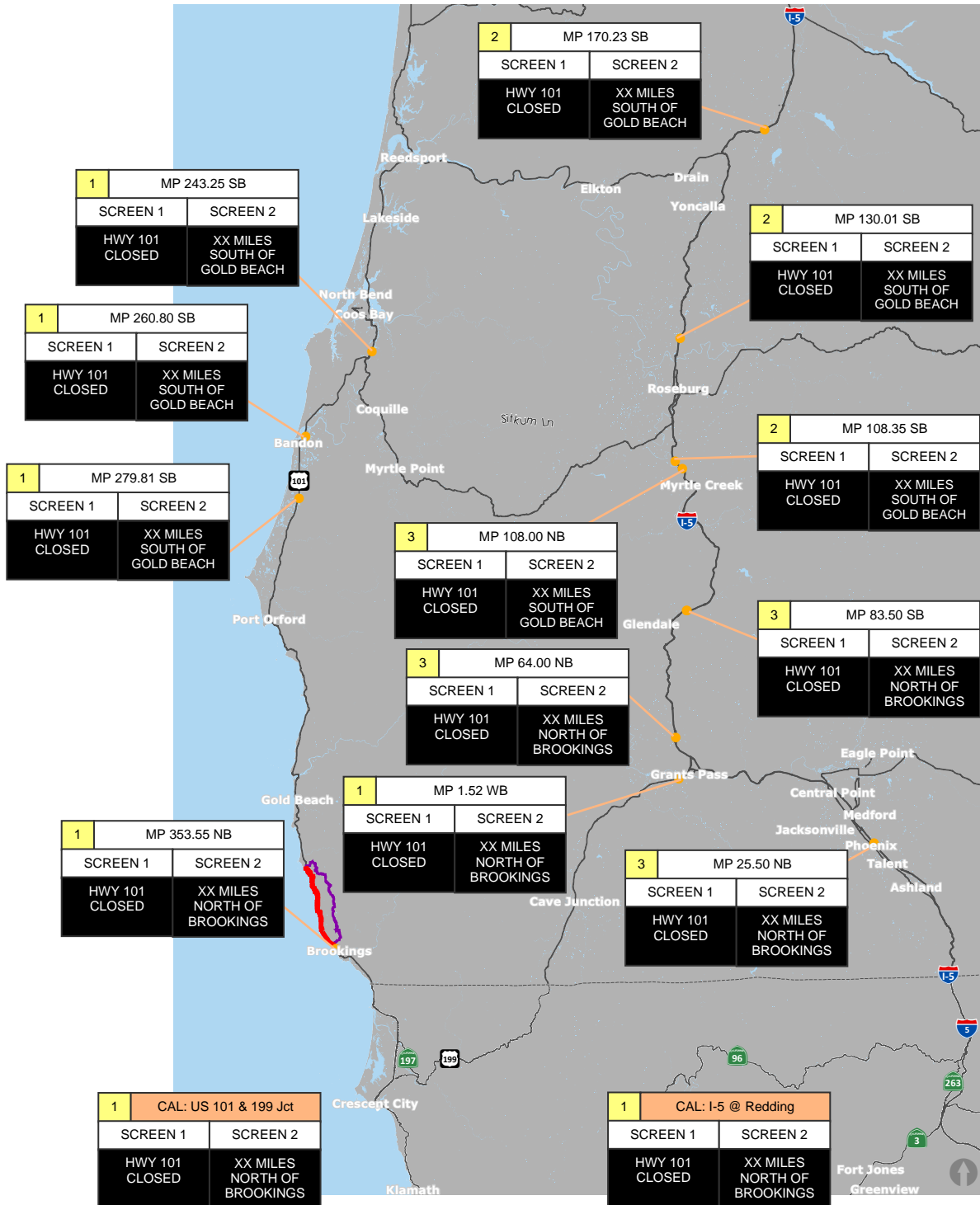
---

The following graphic shows the closure alert strategy to use across Region 3 and California highways if a full roadway closure occurs in the Hooskanaden slide area with and without a detour route.

Utilize the ODOT Variable Message (VMS) Sign Operations Manual (<https://www.oregon.gov/odot/Engineering/Documents/TrafficStandards/VMS-Guidelines.pdf>) to help implement the US 101 Closure Alert Strategy shown in the map below.

# US 101 Closure Alert Strategy - Hooskanaden Landslide Area with Detour

## US 101 Closure from MP 339.7 to MP 354.8



= US 101 Closure Area  
= Detour Route

?	MP XX.XX
SCREEN 1	SCREEN 2
HWY 101 CLOSED	XX MILES SOUTH OF XXXXX

= Variable Message Sign (VMS) Locations

1

Priority #1 - VMS in place or working towards setting up when closure is expected to cause delays.

2

Priority #2 - After Priority #1 boards in place, set up when delays/closures are expected to be longer than 3 hours.


3

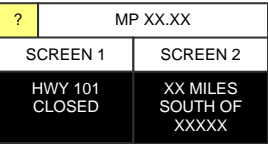
Priority #3 - Set up when delays/closures expected to exceed 12 hours.





# US 101 Closure Alert Strategy - Hooskanaden Landslide Area - No Detour


US 101 Closure from MP 339.7 to MP 354.8

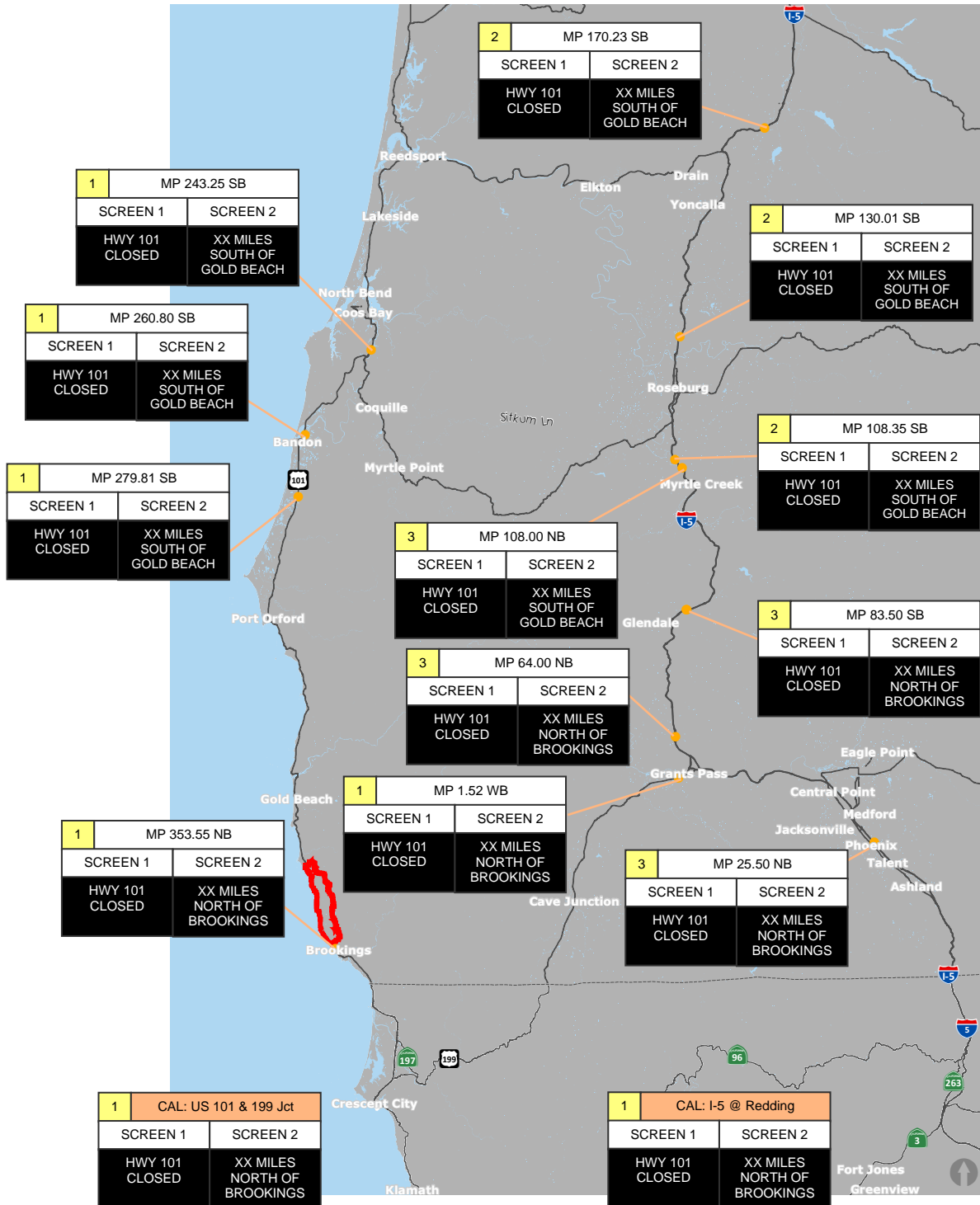
 = US 101 and Carpenterville Hwy Closure Area

 = Variable Message Sign (VMS) Locations

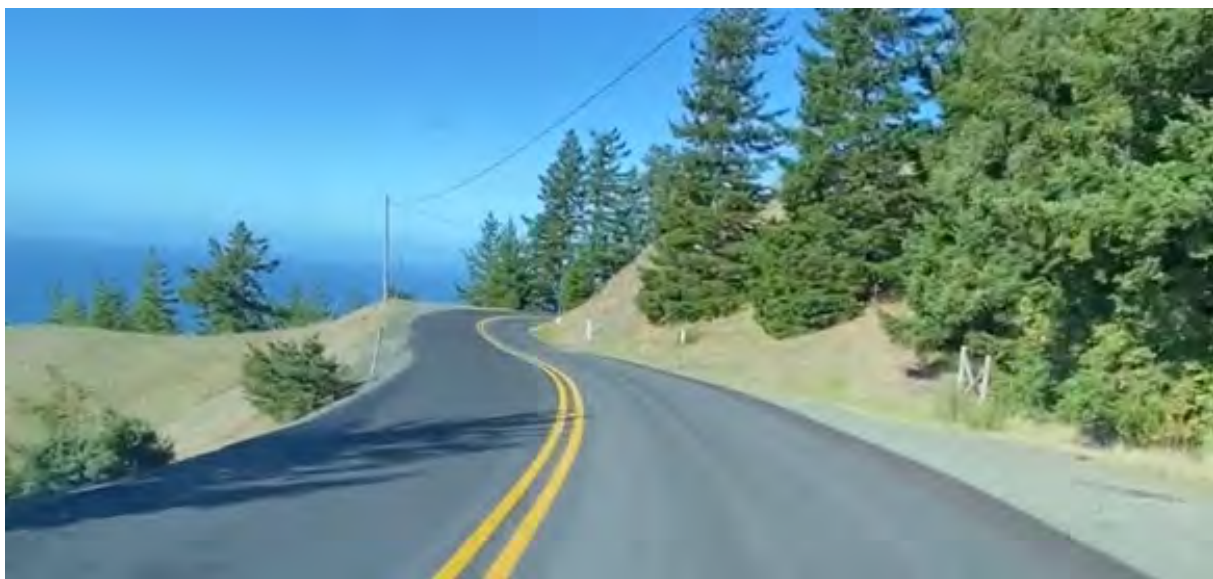
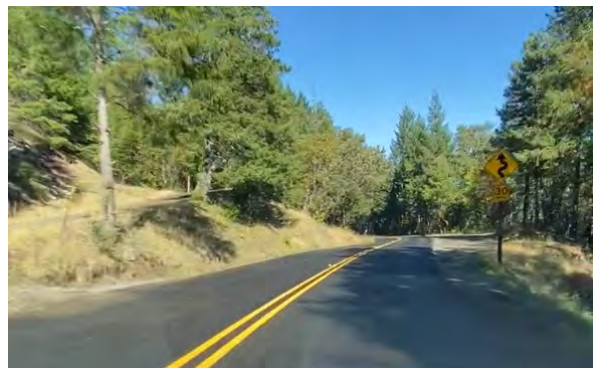
 Priority #1 - VMS in place or working towards setting up when closure is expected to cause delays.

 Priority #2 - After Priority #1 boards in place, set up when delays/closures are expected to be longer than 3 hours.

 Priority #3 - Set up when delays/closures expected to exceed 12 hours.



# CARPENTERVILLE HIGHWAY SLIDE AREA



Section 4 Carpenterville Highway Slide Area







Carpenterville Highway runs parallel to US 101 for approximately 20 miles, connecting to MP 339.7 and 354.8 of US 101. It is a two-lane roadway with many unstable slopes.

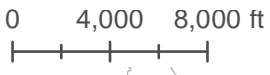
If Carpenterville Highway has a full closure event but US 101 is still allowing bi-directional traffic, US 101 is the local detour route for Carpenterville Highway. If both Carpenterville Highway and US 101 are closed, there would not be a local detour route available for general traffic. The available detour route would utilize I-5, OR 42/OR 42S, and US 199.

# Unstable Slopes on Carpenterville Highway

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure on Carpenterville Hwy. south of Frontage Rd. (MP 341.4)

-  Hard Closure
-  Soft Closure
-  Unstable Slope
-  US 101
-  Potential Detour
-  Buildings
-  Other Road



\*Hard Closure Location:  
Locate hard closure on either side of the work zone. Maintain access to driveways if possible.

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure and detour signage at Cape Ferrelo Rd. (MP 356.8)  
Note: Locate closure on the same side of Cape Ferrelo Rd. as the landslide closure.

**DETOUR**

Detour signage for Carpenterville Hwy. at Cape Ferrelo Rd. (MP 351.1)

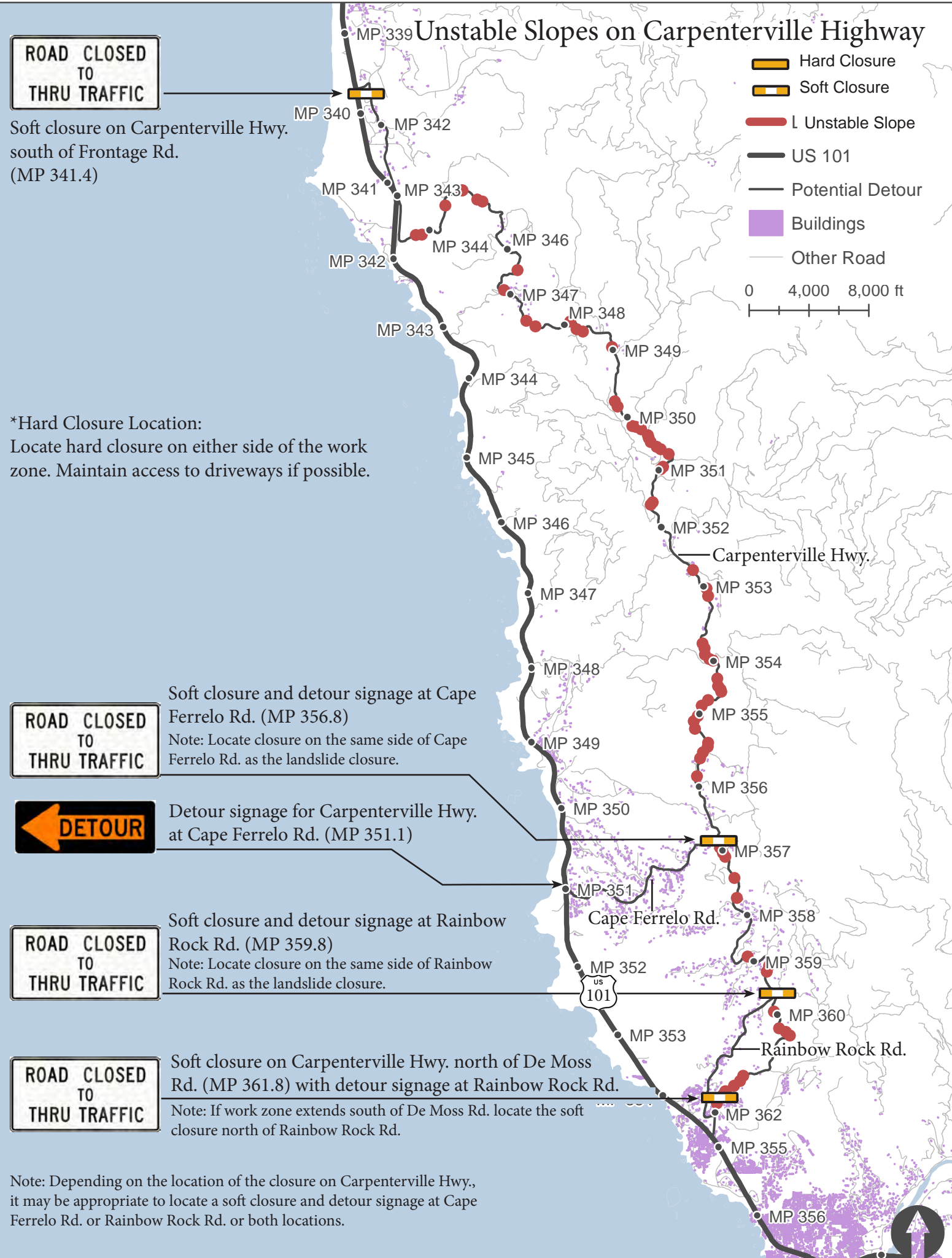
**ROAD CLOSED TO THRU TRAFFIC**

Soft closure and detour signage at Rainbow Rock Rd. (MP 359.8)  
Note: Locate closure on the same side of Rainbow Rock Rd. as the landslide closure.

**ROAD CLOSED TO THRU TRAFFIC**

Soft closure on Carpenterville Hwy. north of De Moss Rd. (MP 361.8) with detour signage at Rainbow Rock Rd.  
Note: If work zone extends south of De Moss Rd. locate the soft closure north of Rainbow Rock Rd.

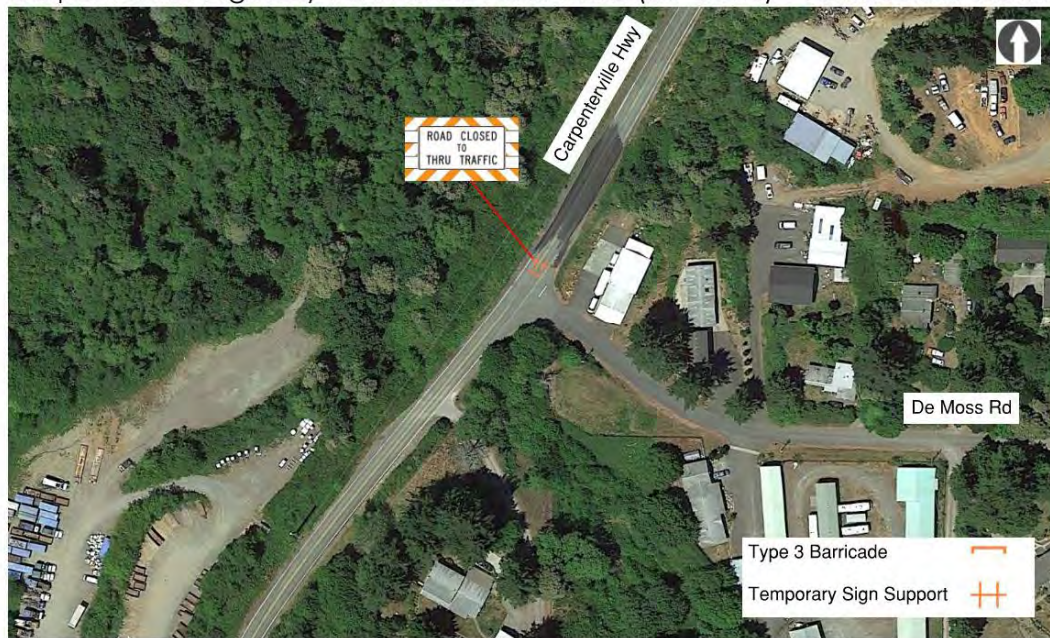
Note: Depending on the location of the closure on Carpenterville Hwy., it may be appropriate to locate a soft closure and detour signage at Cape Ferrelo Rd. or Rainbow Rock Rd. or both locations.



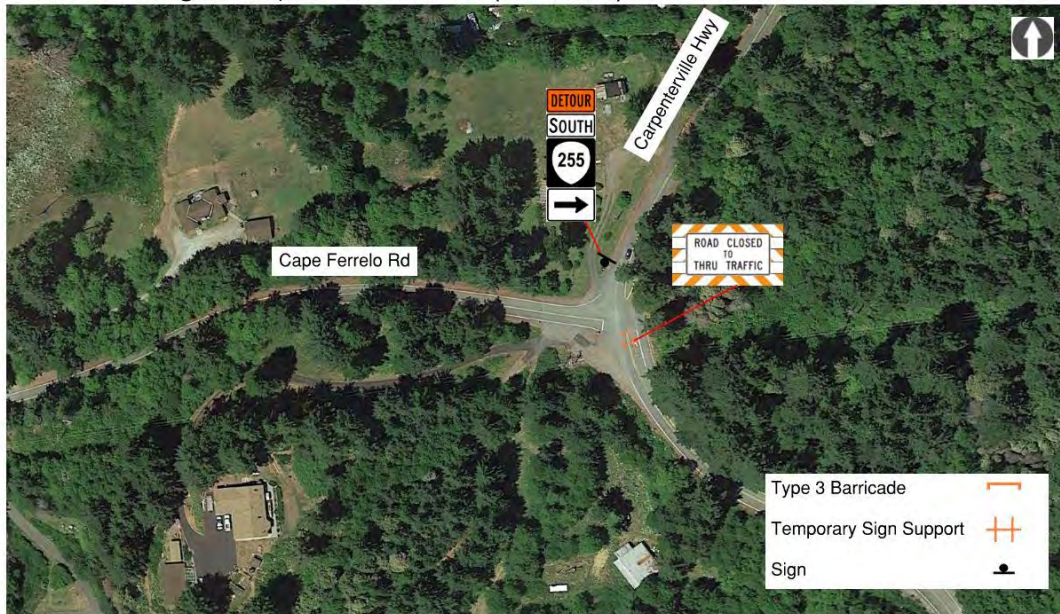
Carpenterville Highway south of Frontage Road (MP 341.4) – Southbound traffic



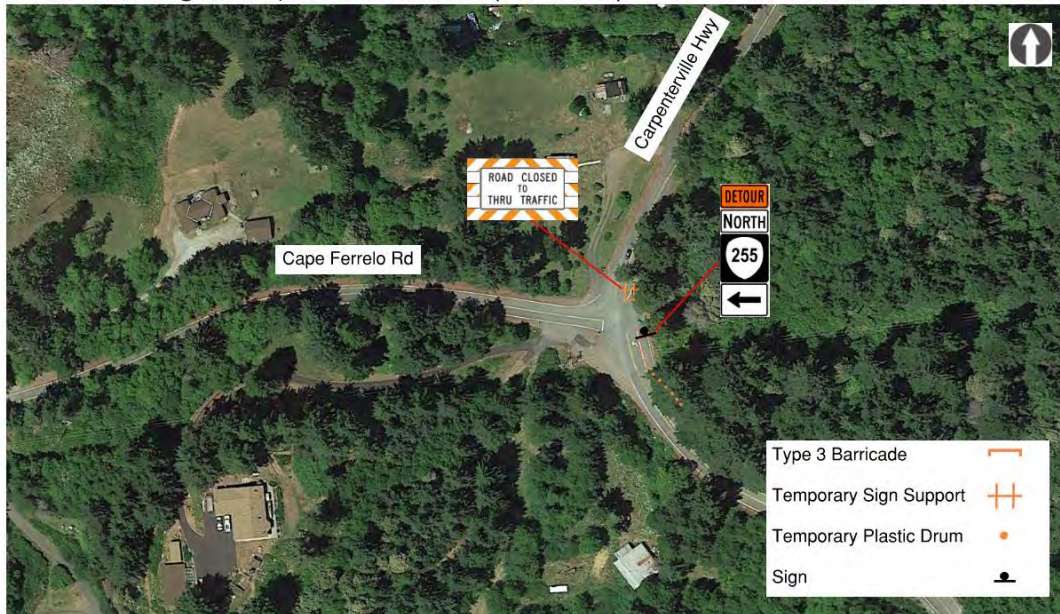
Carpenterville Highway north of De Moss Road (MP 361.8) – Northbound traffic



**Detour Routing at Cape Ferrelo Road (MP 356.8) – Southbound traffic**



**Detour Routing at Cape Ferrelo Road (MP 356.8) – Northbound traffic**



**Detour Routing** at Rainbow Rock Road (MP 359.8) – Southbound traffic



**Detour Routing** at Rainbow Rock Road (MP 359.8) – Northbound traffic



---

## Carpenterville Highway Closure Alert Strategy

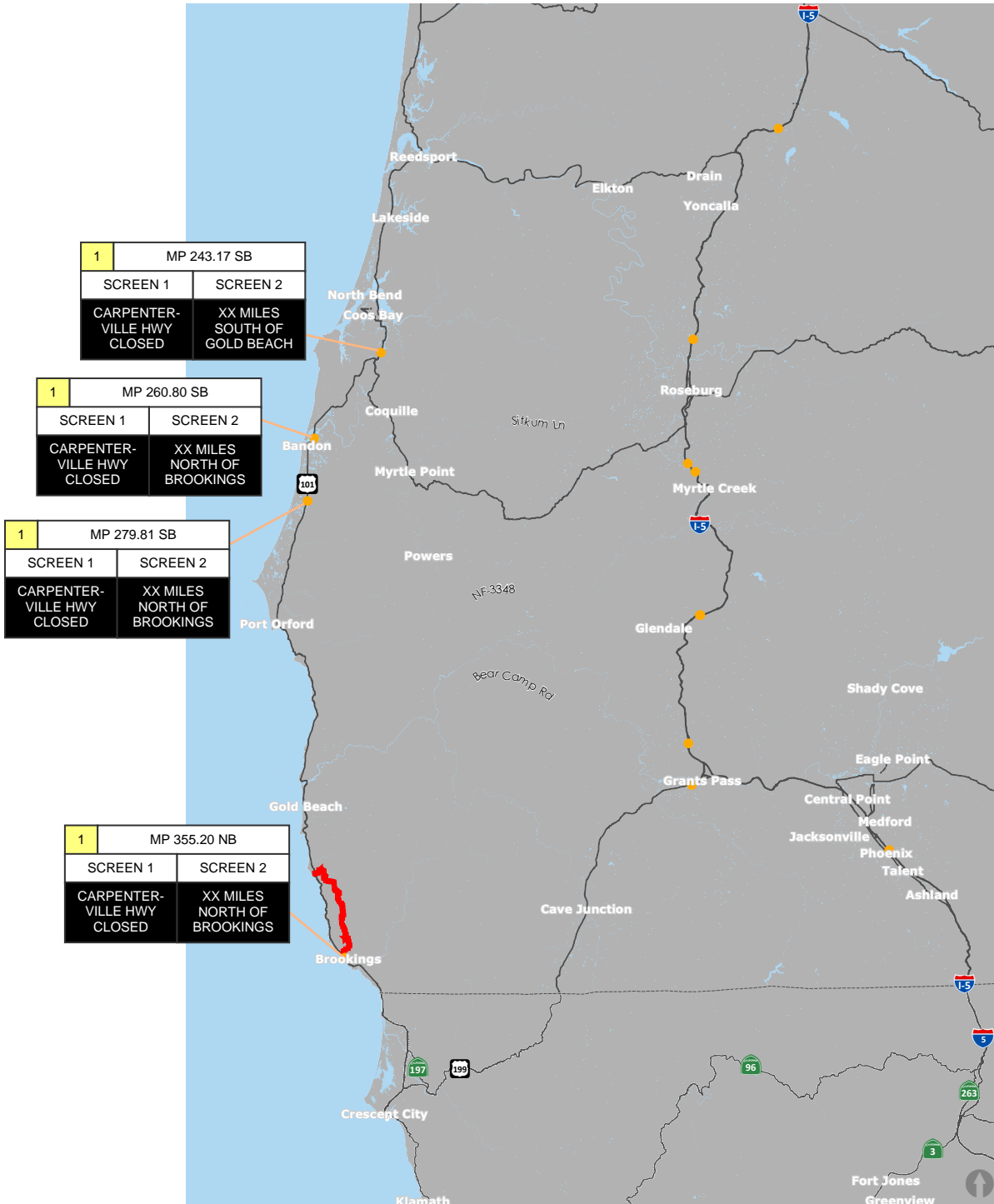
---


The following graphic shows the closure alert strategy to use across Region 3 highways if a full roadway closure occurs on Carpenterville Highway.

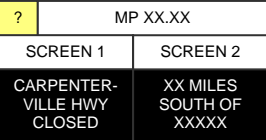
Utilize the ODOT Variable Message (VMS) Sign Operations Manual ([https://www.oregon.gov/odot/Engineering/Documents\\_TrafficStandards/VMS-Guidelines.pdf](https://www.oregon.gov/odot/Engineering/Documents_TrafficStandards/VMS-Guidelines.pdf)) to help implement the Carpenterville Highway Closure Alert Strategy shown in the map below.




# Carpenterville Hwy Closure Alert Strategy

Carpenterville Hwy Closure from MP 341.1 to MP 361.8



 = Carpenterville Hwy Closure Area

 = Variable Message Sign (VMS) Locations

-  Priority #1 - VMS in place or working towards setting up when closure is expected to cause delays.
-  Priority #2 - After Priority #1 boards in place, set up when delays/closures are expected to be longer than 3 hours.
-  Priority #3 - Set up when delays/closures expected to exceed 12 hours.