



Town of Paradise Emergency Warning Sirens Guidelines

The Town of Paradise Emergency Warning System (EWS) consists of twenty-one siren towers located within the town limits of Paradise, California. This system will be known as the Emergency Warning Sirens (EWS) and is part of the overall emergency notification strategy known as “Alert Paradise”. The purpose of the EWS is to provide a last step, redundant warning system for residents and visitors in Paradise of potential or emergent hazards that threaten life and property. The EWS is designed to work in coordination with existing emergency notification systems and processes and to be the highest level of alert of emergencies.

This document is intended to guide Town Officials in the operation of the Emergency Warning Sirens.

Sections:

- Section 1. Siren Locations
- Section 2. Activation
- Section 3. Siren Tones and Voice Commands
- Section 4. Testing Procedure
- Section 5. Maps of Tower Activation by Evacuation Scenario

Section 1: Siren Locations

Siren locations were chosen after analysis of the topography and geography of the Paradise ridge. The 21 sirens are located in public rights of way, or on public property, with the goal of providing audible warnings within Paradise Town limits. The tower locations are listed in table 1 below.

Eight siren locations will also have traffic cameras installed. These cameras are for Town of Paradise internal use only to monitor traffic and conditions during emergencies. Cameras with visibility to private property will have active private property permanently masked from view of the camera.

The traffic cameras will allow access to direct live-feed video to Town of Paradise emergency personnel. This video is not recorded by the Town. Upon a reasonable belief that some video footage may hold evidentiary value, the Town Manager or his/her designee may endeavor to obtain that video footage from the camera itself. In the event that video footage with evidentiary value is obtained, it shall be retained pursuant to Government Code section 34090 and shared to the appropriate party or agency.



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Table 1: Siren Tower Locations

SITE	DESCRIPTION	LATITUDE	LONGITUDE	Camera
1	Police Department – TOP Property	39°45'15.54"N	121°37'27.86"W	
2	Pearson & Clark ROW	39°45'7.77"N	121°36'23.77"W	Yes
3	Maxwell & Fairview ROW	39°45'47.99"N	121°36'44.46"W	
4	Sawmill & Nunneley ROW	39°45'21.00"N	121°35'20.80"W	
5	Clark & Bille ROW	39°46'17.52"N	121°35'47.31"W	Yes
6	Paradise Town Hall TOP Property	39°44'57.10"N	121°38'0.70"W	Yes
7	Russell Drive & Skyway ROW	39°44'42.60"N	121°39'8.53"W	Yes
8	Neal & Grinding Rock ROW	39°43'57.97"N	121°39'4.61"W	
9	Foster & Apple ROW	39°43'59.55"N	121°38'10.12"W	
10	American Way TOP Property	39°44'12.60"N	121°36'36.76"W	Yes
11	Bennett & S. Libby ROW	39°44'15.75"N	121°35'38.06"W	
12	Pentz & Water Tower ROW	39°44'3.05"N	121°34'24.84"W	
13	Pentz & Ely ROW	39°46'36.30"N	121°34'47.03"W	Yes
14	Crestmore & Rose ROW	39°45'38.00"N	121°38'18.70"W	
15	Bille & West Wagstaff ROW	39°46'13.42"N	121°37'48.39"W	
16	Clark & YSK Trail ROW	39°47'45.56"N	121°35'6.62"W	Yes
17	Pentz & Peach ROW	39°45'30.40"N	121°34'20.90"W	
18	Pentz & Pearson ROW	39°44'52.00"N	121°34'23.30"W	Yes
19	Rocky Ln. & YSK Trail ROW	39°46'53.51"N	121°35'53.68"W	
20	Gregory & Waggoner ROW	39°46'44.00"N	121°36'47.90"W	
21	Roe & Scottwood ROW	39°44'28.26"N	121°37'18.28"W	



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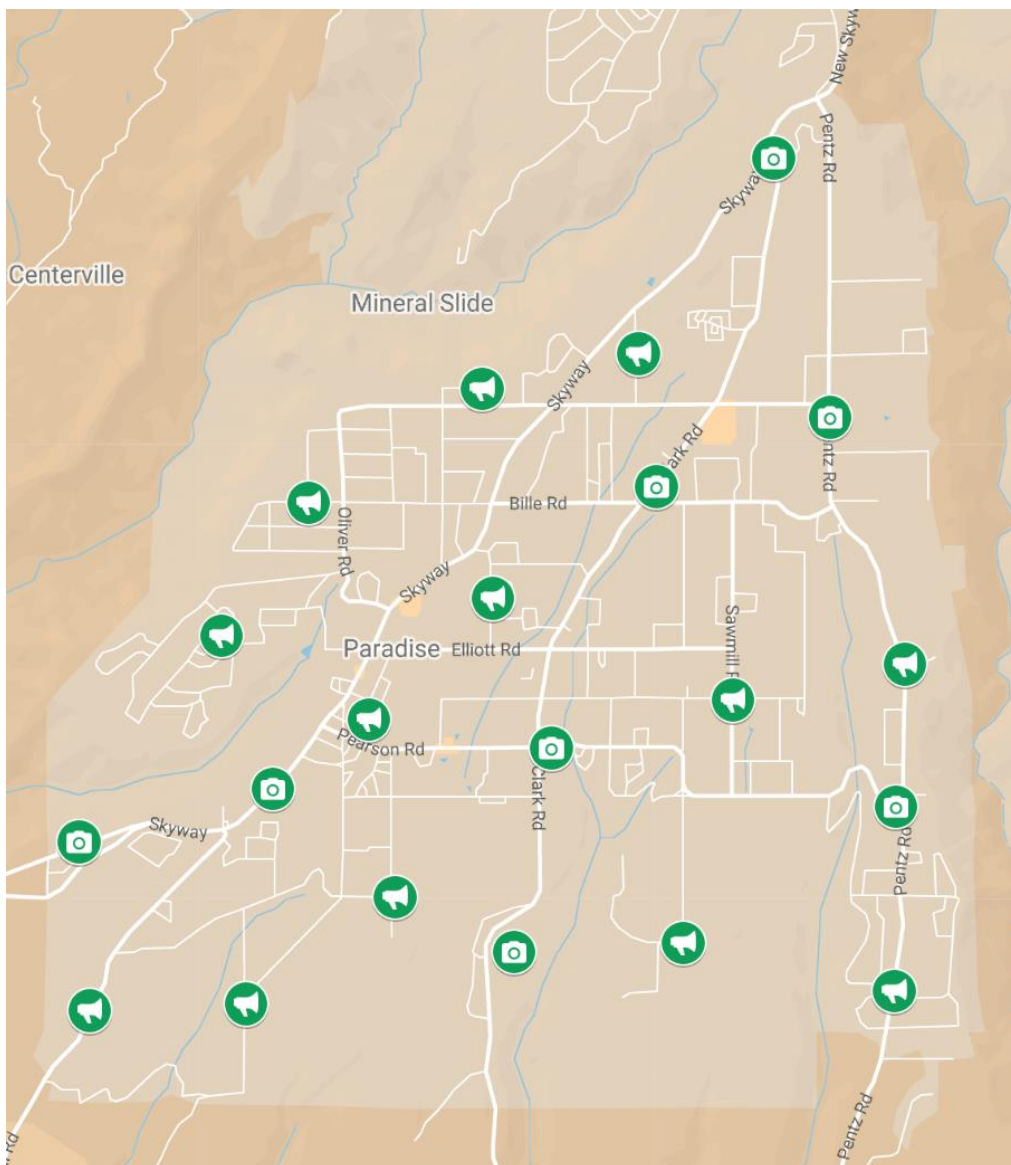
The most proximal areas to the towers can expect ~90db emitting from the towers, down to ~60db outside Town limits. **The system has been tested and has confirmed volume levels of +110db at 30 meters from the towers and +90db at 400 meters.** This system is designed to be audible for residents and visitors who are outdoors when the warning (siren tone or voice command) is given. The audibility levels of the system can vary due to the environment when activated. The system is designed to be one part of our emergency warning system and the last tool to be utilized in an actual emergency.



EWS Siren Tower



EWS Siren Tower w/Camera





Town of Paradise Emergency Warning Sirens Guidelines

Section 2: Activation

Standardized signals for Emergency warning devices have been established by the Federal Emergency Management Agency (FEMA). Additional information on policies and guidelines for Emergency Warning Systems can be found in the FEMS CPG 1-17 Outdoor Warning Systems Guide and the 2019 CA Alert Warning Guidelines. These standard guidelines have been incorporated in this document.

EWS Activation Procedure

In the event of an evacuation order being issued, the Emergency Warning Sirens will be activated at the direction of the Paradise Police Chief or their designee. The Police Chief or their designee will work in partnership with other emergency personnel to make the following two determinations:

1. **Zone Determinations:** Which evacuation zone(s) will be issued an evacuation warning and which evacuation zone(s) will be issued an evacuation order.
2. **Scenario Determination:** Which of the 8 Evacuation Scenarios best reflect the current emergency and should be activated by dispatch.

The activation process will be initiated by Town of Paradise Police Department Dispatch Center once approval has been granted:

- **Level 1 EWS Activation:** If 1,2 or 3 zones are ordered for evacuation, The EWS towers pre-identified and coordinated with the selected Town Evacuation scenario would be activated.
- **Level 2 EWS Activation:** If 4 or more zones are ordered for evacuation, all towers would be activated.

All Evacuation scenarios will be pre-programmed into the EWS control system for quick activation in the event of an emergency. ***Scenario maps provided in section 6.***

Scenario 1 – Butte Creek Canyon

Evacuation Zones 1 and 4
Towers 3, 14, 15, 16, 19, 20

Scenario 2 – Lower Skyway/Neal Road

Evacuation Zones 9, 10 and 11
Towers 1, 6, 7, 8, 9, 21

Scenario 3 – Butte Valley/Lower Clark

Evacuation Zones 11, 12, and 13
Towers 2, 6, 9, 10, 11, 12, 18, 21

Scenario 4 – West Branch/Lower Pentz

Evacuation Zones 8, 13, and 14
Towers 11, 12, 17, 18,

Scenario 5 – West Branch/Concow

Evacuation Zones 3, 8 and 14
Towers 12, 13, 16, 17, 18,

Scenario 6 – Magalia

Evacuation Zones 1, 2 and 3
Towers 5, 13, 15, 16, 19, 20

Scenario 7 – Central Paradise

Evacuation Zones 5, 6 and 7
Towers 1, 2, 3, 4, 5, 17, 18

Scenario 8 – All Towers/All Zones (no map included)

Evacuation Zones 1-14
Towers 1-21



Town of Paradise Emergency Warning Sirens Guidelines

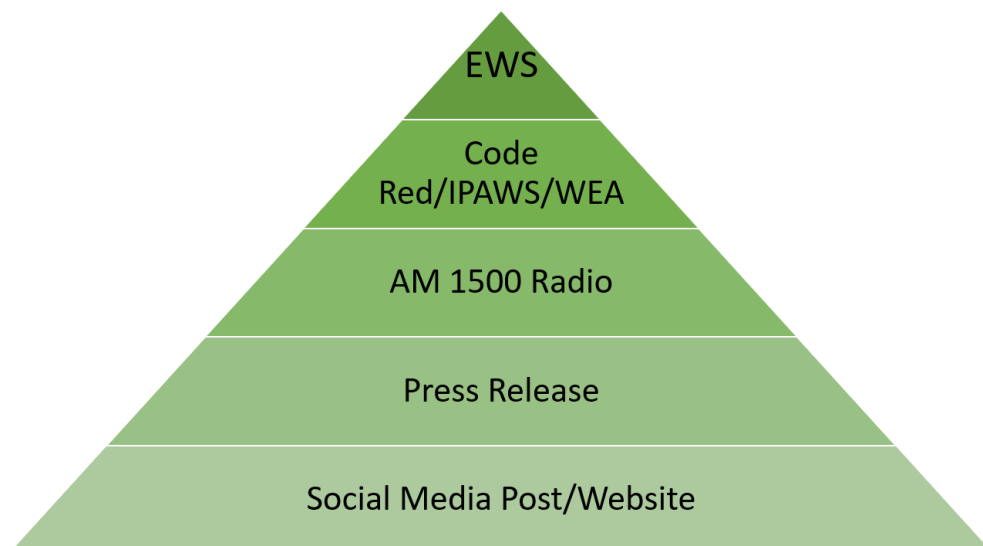
The process flow is shown visually below:



The Emergency Warning Sirens are only intended to be activated in a true emergency in which an evacuation has been ordered. *No towers will be activated for evacuation warning(s).* Additional notification and information channels are to be used prior to and in tandem with the siren towers. This emergency communication framework is known as Alert Paradise. The activation of the EWS is intended to indicate to all residents and visitors to seek further emergency information through radio, television, social media, or other channels.

Depending on the emergency, different levels of public notification will be appropriate. Activation of the Emergency Warning Sirens will be used for evacuation orders. The following table illustrates the hierarchy of notification channels within Alert Paradise. Once a notification channel is activated, all those below it in the hierarchy should also be utilized.

Alert Paradise Notification Hierarchy





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Section 3: Siren Tones and Voice Commands

Any activation of the EWS will include both siren tone and voice command. It is understood that sirens may be audible for a distance beyond the immediate area for which the notification is intended, and clear instruction through the voice commands and on other communication channels will be important for the system to be used effectively.

Emergency Activation Siren and Voice

Immediate Evacuation Orders will prompt the activation of the Emergency Warning Sirens. A 1-minute-long siren tone will indicate residents should evacuate immediately. The siren tone will then be followed by a Voice Command telling residents to evacuate. The default voice command will be "A mandatory evacuation order has been issued" The protocol will be as follows:

Siren Tone for a 1-minute duration

Voice Command:

Siren Tone for a 1-minute duration

This siren cycle will repeat until suspended by order of the Police Chief.

Section 4: Testing Procedures

The EWS will be tested both internally and externally. The EWS towers have built in internal testing that occur regularly and additional Internal-only tests will be performed periodically and will be done silently to test functionality but will not be audible to the public.

Audible tests will be performed monthly, on the 15th of each month at 12:00 pm. The public will be notified of these tests in advance, with press releases, social media posts, website information, and Code Red notifications sent prior to testing. The testing protocol will be as follows:

Voice Command: This is a test of the Paradise Emergency Warning Sirens

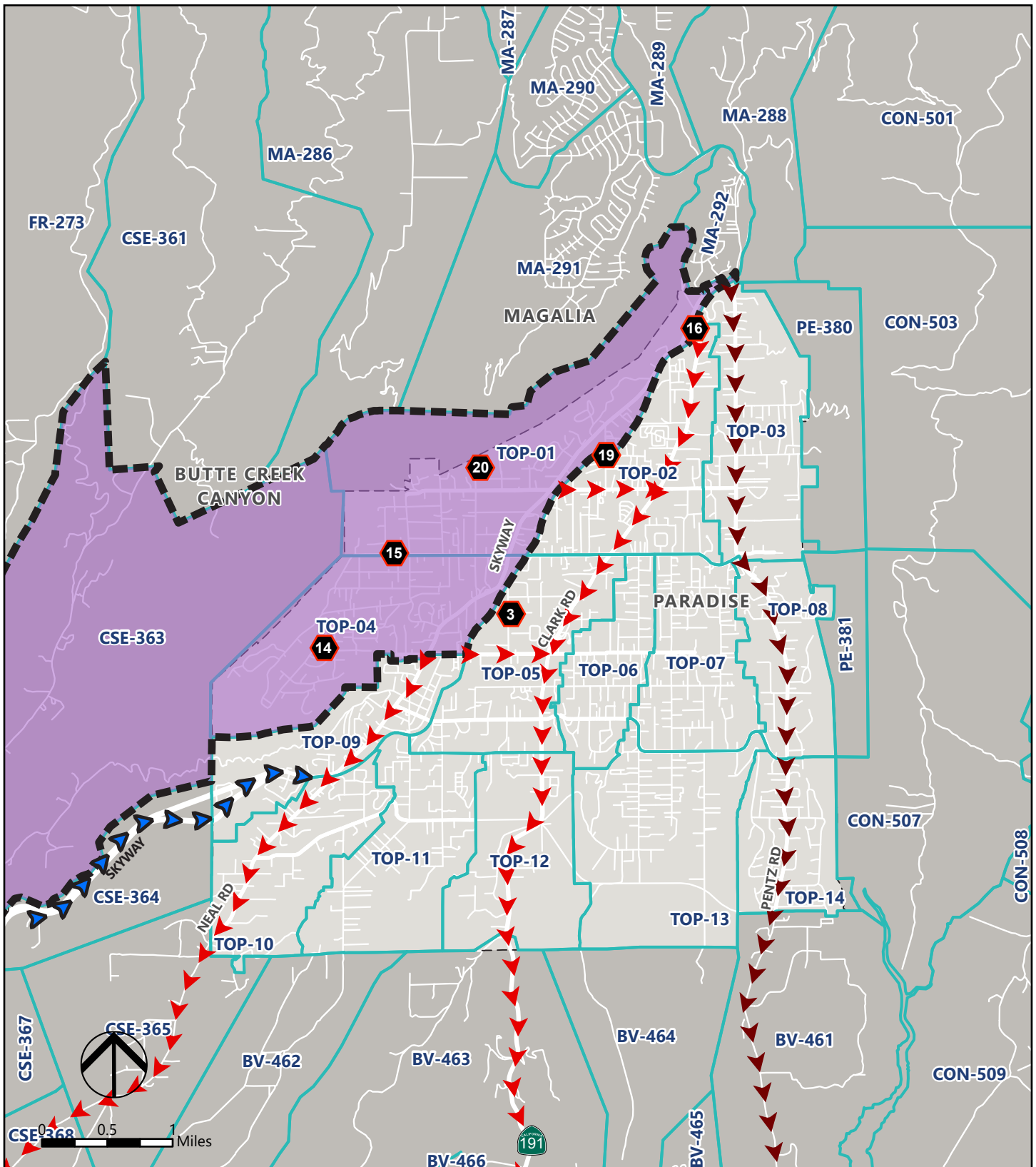
Siren Tone for a 30-second duration

Voice Command: This was a test of the Paradise Emergency Warning Sirens.



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Section 5: Maps of Tower Activation by Evacuation Scenario



Town of Paradise

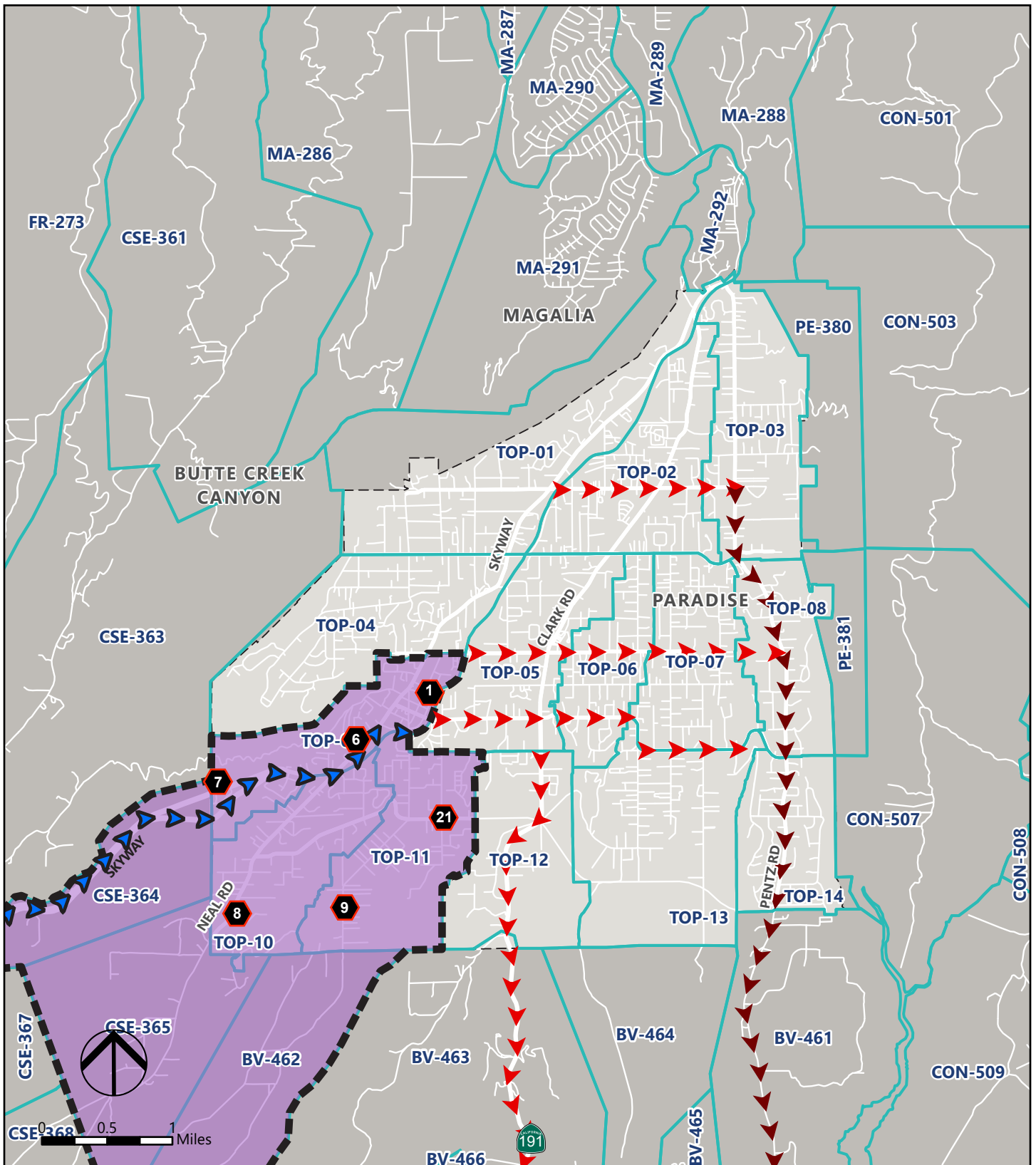
Emergency Evacuation Review Scenario 1 Butte Creek Canyon



**MARK
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LEGEND

-  Evacuation Zones
-  Scenario Fire Threat
-  Anticipated Resource Ingress Route
-  Anticipated Egress Route
-  Potential One-Way Evacuation Egress Route
-  TOP Emergency Warning Sirens
Towers 3, 14, 15, 16, 19, & 20



Town of Paradise

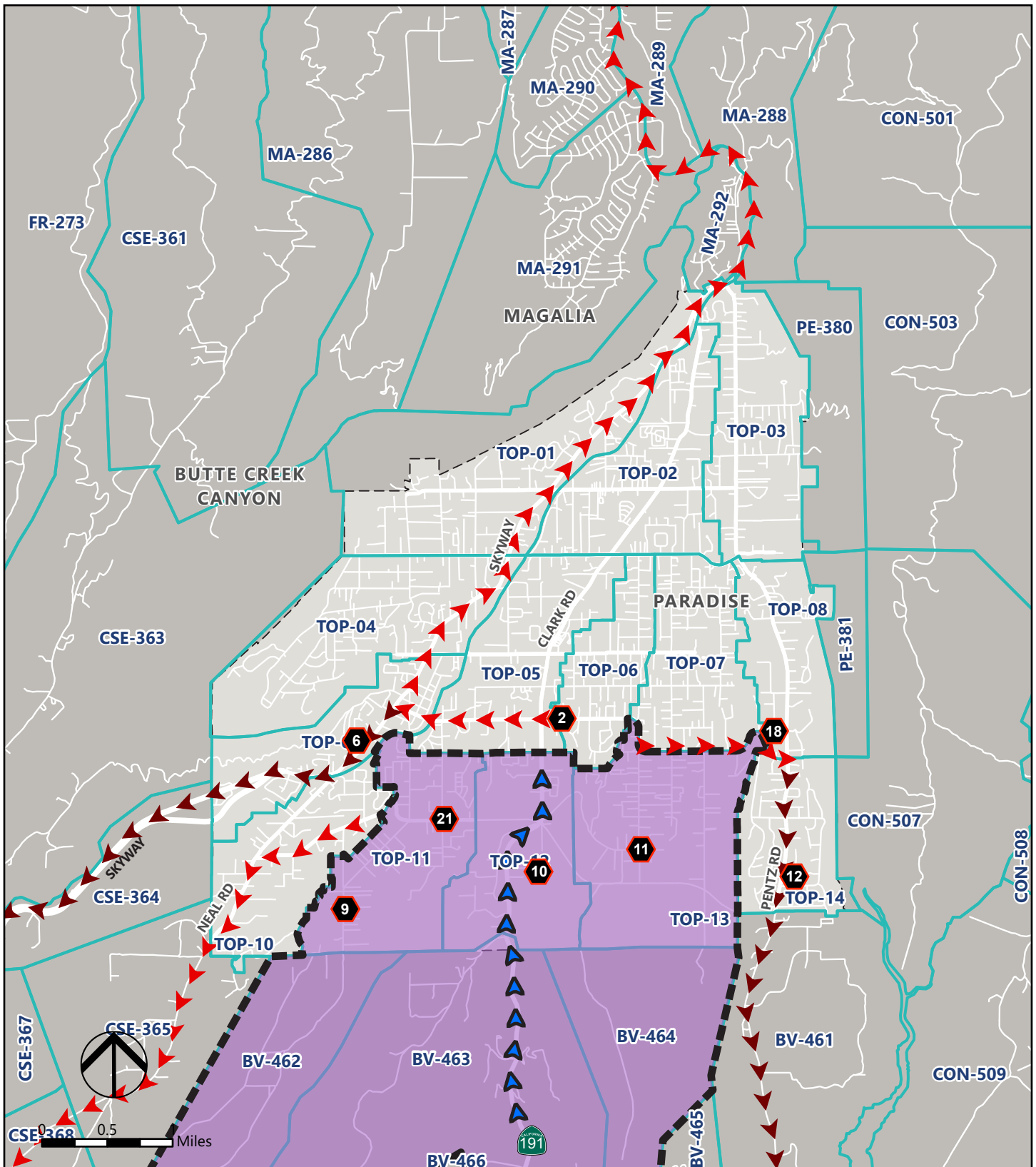
Emergency Evacuation Review Scenario 2 Lower Skyway/Neal Road



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LEGEND

-  Evacuation Zones
-  Scenario Fire Threat
-  Anticipated Resource Ingress Route
-  Anticipated Egress Route
-  Potential One-Way Evacuation Egress Route
-  TOP Emergency Warning Sirens
Towers 1, 6, 7, 8, 9, & 21



Town of Paradise

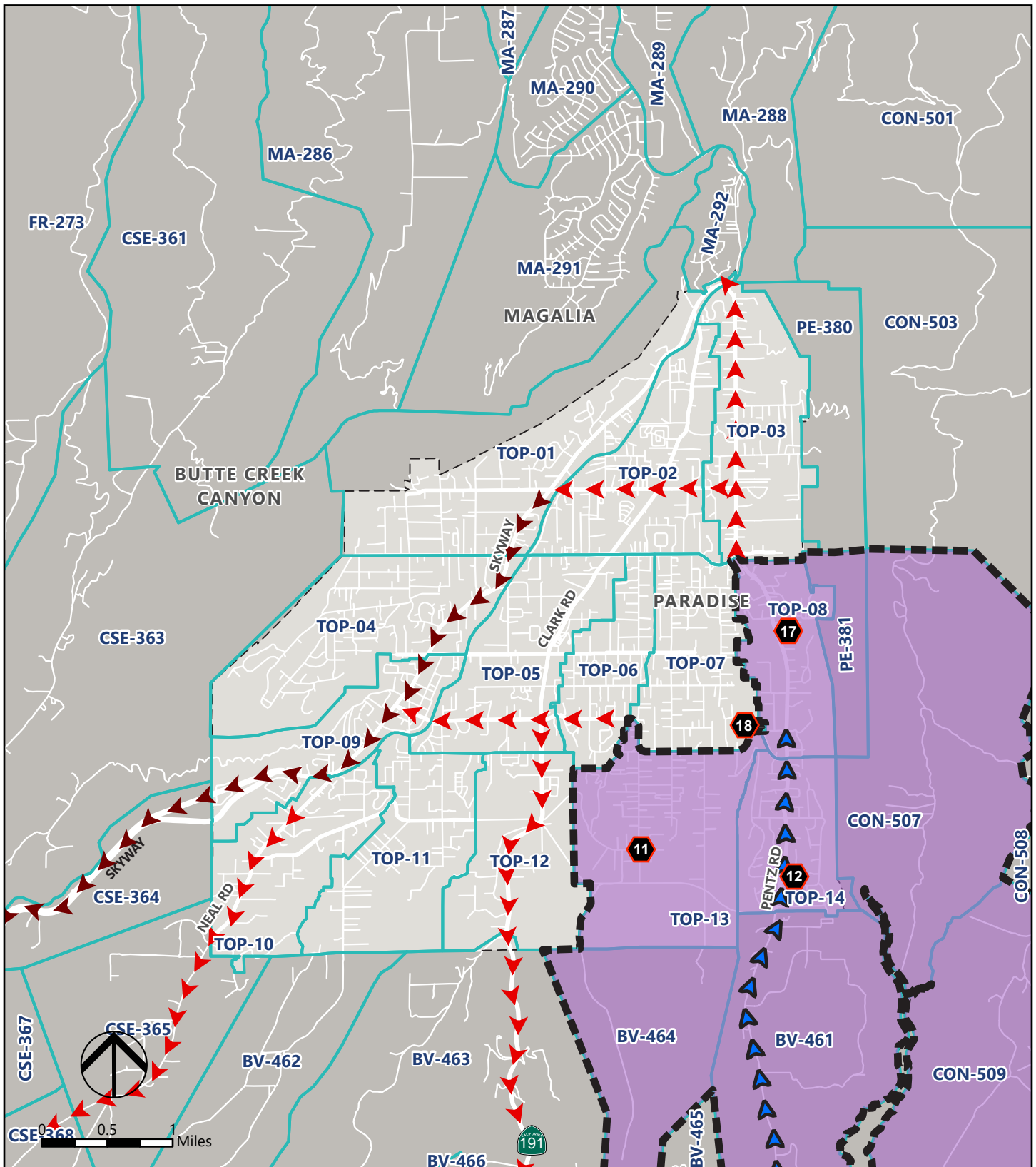
Emergency Evacuation Review Scenario 3 Butte Valley/Lower Clark



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LEGEND

-  Evacuation Zones
-  Scenario Fire Threat
-  Anticipated Resource Ingress Route
-  Anticipated Egress Route
-  Potential One-Way Evacuation Egress Route
-  TOP Emergency Warning Sirens
Towers 2, 6, 9, 10, 11, 12, 18 & 21



Town of Paradise

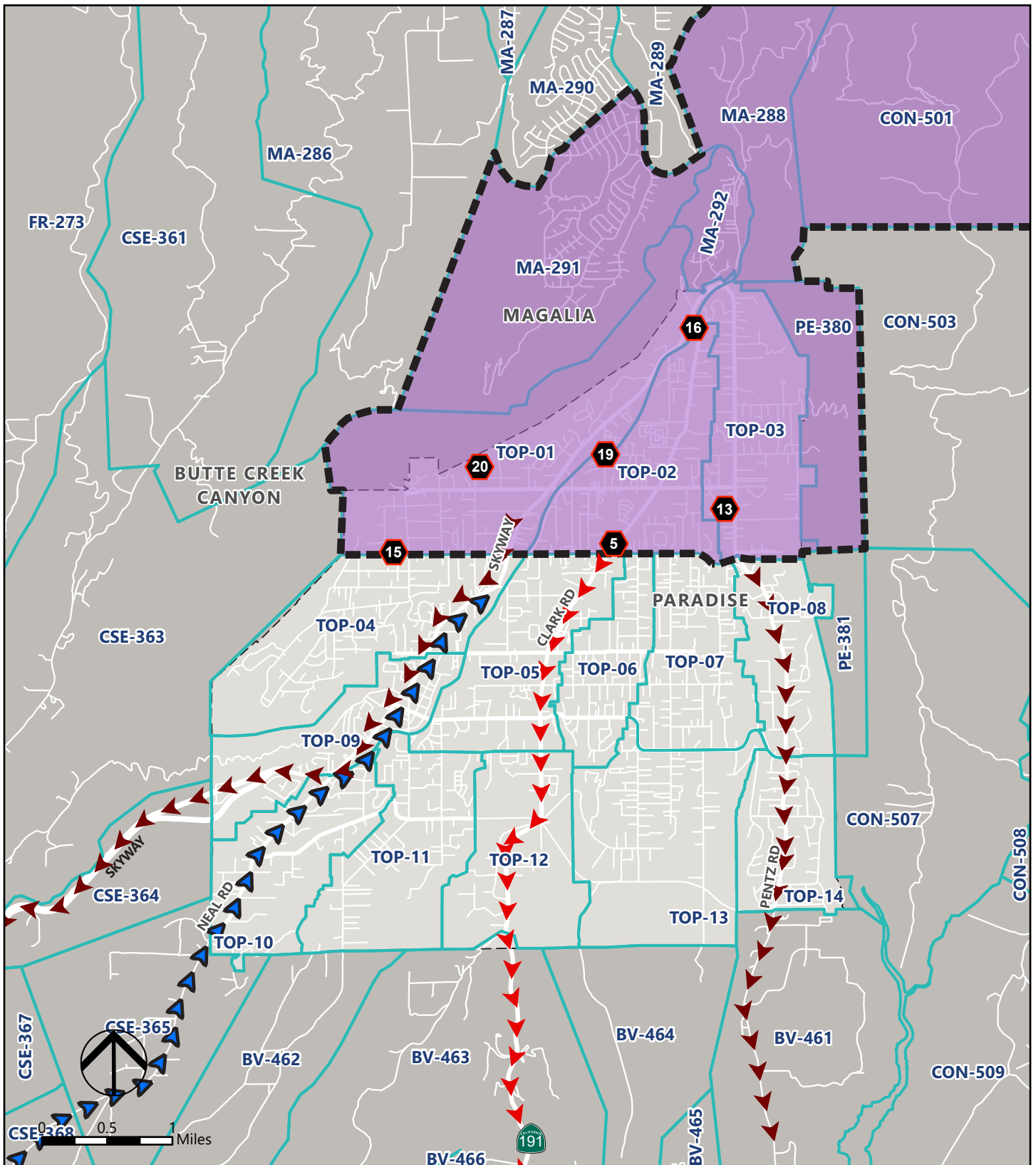
Emergency Evacuation Review Scenario 4 West Branch/Lower Pentz



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LEGEND

- Evacuation Zones
- Scenario Fire Threat
- Anticipated Resource Ingress Route
- Anticipated Egress Route
- Potential One-Way Evacuation Egress Route
- TOP Emergency Warning Sirens Towers 11, 12, 17, & 18



Town of Paradise

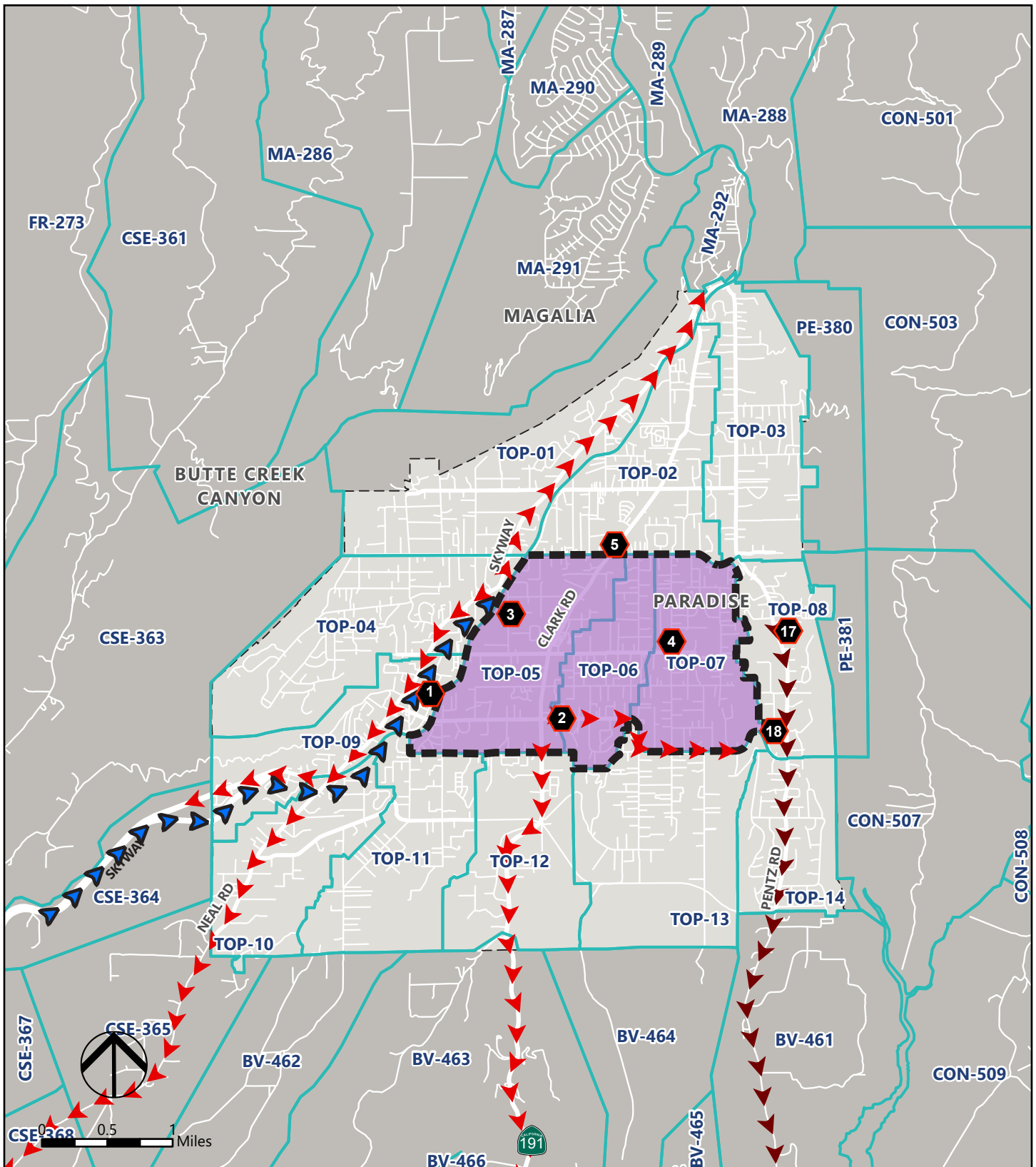
Emergency Evacuation Review Scenario 6 Magalia



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LEGEND

- | | |
|------------------------------------|---|
| Evacuation Zones | Anticipated Egress Route |
| Scenario Fire Threat | Potential One-Way Evacuation Egress Route |
| Anticipated Resource Ingress Route | TOP Emergency Warning Sirens Towers 5, 13, 15, 16, 19, & 20 |



Town of Paradise

Emergency Evacuation Review Scenario 7 Central Paradise



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LEGEND

-  Evacuation Zones
-  Scenario Fire Threat
-  Anticipated Resource Ingress Route
-  Anticipated Egress Route
-  Potential One-Way Evacuation Egress Route
-  TOP Emergency Warning Sirens
Towers 1, 2, 3, 4, 5, 17 & 18