

*** CORRECTED ***

INCIDENT ACTION PLAN

BTU/TGU LIGHTNING COMPLEX INCIDENT

CA-BTU-009841

BUTTE ZONE IAP

Friday



OPERATIONAL PERIOD

8/21/2020 0700

to

8/22/2020 0700



* CORRECTED *

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 321



PHYSICS 321

PHYSICS 321

PHYSICS 321

PHYSICS 321

INCIDENT OBJECTIVES (ICS 202)

1. Incident Name: BTU/TGU Lightning Complex	2. Operational Period:	Date From: 8/21/2020 Time From: 0700	Date To: 8/22/2020 Time To: 0700
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3. Objective(s):

Management Objectives

- Provide for and maintain public and first responder safety by utilizing the incident safety analysis process
- Ensure COVID-19 precautions and best practices are met at all times.
- Protect the commercial timberland, historical and cultural assets within the affected area, infrastructure, improvements, and watersheds
- All management actions and efforts will be focused on serving, safeguarding, and protecting the citizens of Butte, Glenn and Tehama Counties
- Ensure coordinated, timely and accurate release of public information
- Be financially responsible for all management and fire suppression tactics

Control Objectives

Butte Zone

Branch I

- Keep fire north of Powellton.
- Keep fire east of Hwy. 32.
- Keep fire south of Butte Meadows.
- Keep fire west of Bald Mtn.

Branch X

- Keep fire north of Kenebeck Ridge.
- Keep fire east of 130D Line.
- Keep fire south of PNF Forest Boundary.
- Keep fire west of 120C Line.

Tehama / Glenn Zone

- Keep fire north of Colusa County Line.
- Keep fire south of Shasta County Line.
- Keep fire west of Road 306/Lowery/Hess.

General Situational Awareness:

- Steep and rugged terrain, critically dry and receptive fuel beds, active area for fire history and drought stressed trees.
- In the COVID-19 environment, high density populations or large groups are particularly at risk. To help protect yourself, your family and to ensure all employees return home safely, make sure to practice social distancing.
- Enhanced hygiene (especially handwashing), PPE & monitoring practices help limit the infection rate of first responders.

5. Site Safety Plan Required? Yes No

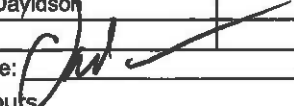
Approved Site Safety Plan(s) Located at:

6. Incident Action Plan

<input checked="" type="checkbox"/> ICS 203	<input checked="" type="checkbox"/> ICS 215A	<input type="checkbox"/> ICS 205 A	<input type="checkbox"/>
<input checked="" type="checkbox"/> ICS 204	<input checked="" type="checkbox"/> ICS 220	<input checked="" type="checkbox"/> Training Message	<input type="checkbox"/>
<input checked="" type="checkbox"/> ICS 205	<input type="checkbox"/> Facility Maps	<input checked="" type="checkbox"/> Travel Map	<input type="checkbox"/>
<input checked="" type="checkbox"/> ICS 206	<input checked="" type="checkbox"/> Weather Forecast	<input checked="" type="checkbox"/> Demob Plan	<input checked="" type="checkbox"/> County Health Message
<input checked="" type="checkbox"/> ICS 208	<input checked="" type="checkbox"/> Fire Behavior	<input type="checkbox"/> Finance Message	<input checked="" type="checkbox"/> ICS 214

7. Prepared By: David Shy	Position/Title: PSC	Signature:
8. Approved by Incident Commander:	Dave Russell	Signature:

ORGANIZATION ASSIGNMENT LIST (ICS 203)

1. Incident Name: BTU/TGU Lightning Complex		2. Operational Period: Date From: 8/21/2020		Date To: 8/22/2020	
		Time From: 0700		Time To: 0700	
3. Incident Commander(s) and Command Staff:			7. Operation Section:		
IC/UC's	Dave Russell	Operations	Shane Lauderdale (Day), Jeremi Roesler (T)		
Deputy	Darryl Laws / Matt Chamblin	Deputy Operations	Smith (Tehama)/ Sjolund (Butte)/ Brown (Glenn)		
Safety Officer	Doug Ferro/ Brent Stangland	Night Ops			
Information Officer	Steve Kaufmann, Chris Harvey (T)	Staging Area			
Liaison Officer	Dave Pender, Ron Karten (T)				
LELO	Josh Allen, LT. Anthony Bertain	Zone	BUTTE	Garrett Sjolund	
4. Agency/Organization Representatives:		Branch	I	Jason Dyer	
Agency/Organization	Name	Division/Group	AA	Tim Cossone	
		Division/Group	WW	CHRIS MARKEY	
		Division/Group			
		Division/Group			
		Division/Group			
		Division/Group			
		Division/Group			
		Branch	V		
		Division/Group	FF		
		Division/Group	HH	Jason Finney	
		Division/Group	PP	Mike Conaty	
		Division/Group	SS	Jeff Edson	
		Division/Group			
		Division/Group			
		Division/Group			
		Division/Group			
		Branch	X	Chad Porter	
		Division/Group	GG		
		Division/Group			
5. Planning Section:		Division/Group			
Chief	Chris Burch	Division/Group			
Deputy	David Shy	Division/Group			
Resource Unit	G. Ozard, C. Dyche, B. Torosian (T), N. Funes (T)	Division/Group			
Situation Unit	D. O'Neil	Division/Group			
Documentation Unit		Division/Group			
Demobilization Unit	Chris Lynch	Division/Group			
GISS	Daniel Dresselhaus	Division/Group			
FBAN	Jonathan Pangburn	Division/Group			
IMET	Jim Wallman	Division/Group			
Training Tech. Spec	Dennis Martin	Air Operations Branch		Director:	Greg Bradshaw
Crew Tech. Spec		Air Support Group Supervisor			
Hired Equip Tech Spec	Tim Bingham	Air Tactical Group Supervisor			
6. Logistics Section		Helibase Manager		Ray Gomez	
Chief	Matt Reich				
Deputy	Mathew Brandt	8. Finance/Administration Section:			
Supply Unit	Shawn Burris	Chief	Mara Zaver		
Facilities Unit	Travis Heard/ Jason Wilson (T)	Time Unit	Greg Tunzi		
Ground Support Unit	Conor Stapleton	Procurement Unit	Courtney Arebalo		
Communications Unit		Comp/Claims Unit	Alyssa Hagerman		
Medical Unit	Leif Juliussen (T)	Cost Unit	Angela Davidson		
Prepared By: Name: David Shy		Position/Title: PSC	Signature: 		
ICS 203		Date/Time: 8/20/2020 2300 hours			

ORGANIZATION ASSIGNMENT LIST (ICS 203A)

1. Incident Name: BTU/TGU Lightning Complex		2. Operational Period: Date From: 8/21/2020 Date To: 0700			
		Time From: 0700		Time To: 0700	
7. Operation Section:					
Chief	Shane Lauderdale (Day), Jeremi Roesler (T)				
Deputy	Smith (Tehama)/ Sjolund (Butte)/ Brown (Glenn)				
Staging Area			Staging Area		
Zone	TEHAMA	Monty Smith	Zone	GLENN	Mark Brown
Branch	XXX	Gerry Magana	Branch	XX	Todd Horton
Division/Group	A		Division/Group	BB/CC	
Division/Group	C	Andy Zuckerman	Staging Area	GLENN STAGING	Gabe Bernardino
Division/Group	G	Galvez	Division/Group		
Division/Group	K		Division/Group		
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Branch	XXXVI	Tim Perkins	Branch	XXV	Ethan Darnall
Division/Group	N		Division/Group	WW	Luke Stacher
Division/Group	Q	Trull	Division/Group		
Division/Group	T		Division/Group		
Division/Group	V	Zuckerman	Division/Group		
Division/Group	X		Division/Group		
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Branch	CONTINGENCY (TEH)	Matt Brown	Branch		
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Division/Group			Division/Group		

Prepared By: David Shy
ICS 203A

Position/Title: PSC
Date/Time:

Signature: 
8/20/2020 2300 hours

Fire and COVID-19 Briefing Checklist

Self-Awareness / Screening

- Immediately separate yourself from others.
- Notify supervisor if you or others experience:
 - Cough, more than expected
 - Shortness of breath or difficulty breathing
 - New loss of taste or smell
 - Fever
 - Chills
 - Sore throat
 - Muscle pain
- Review and follow crew and division plans to isolate, triage, and transport symptomatic personnel.

Hygiene on the Fireline

- Properly wash or sanitize your hands often, especially before and after eating or entering a public place, and after coughing or sneezing.
- Avoid handshakes and communal use items.
- Maintain a supply of hand sanitizer and hand wipes. Inform supervisor of needed resupply.
- Disinfect high touch surfaces often:
 - Radios, phones, doors, pumps, fuel cans, etc.

Social Distancing and Protective Equipment

- Initiate, practice, and remind others of social distancing.
- Conduct briefings and conversations outdoors and at least 6 feet apart.
- Utilize face coverings as a tool when practical.
- Clean or replace dirty face coverings, equipment, and PPE.

Communications

- Face coverings and social distancing complicate communications. Ensure effective sender/receiver messaging.

Protect yourself, your crew, and your camp!

Find more information: <https://www.nwcg.gov/coronavirus>.

NFES 002646 (06/2020)



Fire Weather Forecast – Butte-Tehama-Glenn Lightning 2020



FORECAST NO: 2
PREDICTION FOR: Friday-Friday night.
SHIFT DATE: 08/21-22/2020 0700-0700
TIME AND DATE
FORECAST ISSUED: 08/20/2020 2100

ZONE: Butte
SHIFT
SIGNED: *[Signature]*
UNIT: CA-BTU
Jim Wallmann
Incident Meteorologist

DISCUSSION: Winds will be lighter today behind yesterday's cold front. It will remain smoky all day and limit heating, keeping temperatures cooler and winds lighter than would normally occur in this pattern. The smoke will only slightly improve in the afternoon. The pattern remains similar for Friday with the smoke remaining heavy due to other area fires. If in the unlikely chance more clearing occurs, upslope/upvalley winds will be stronger during the afternoon.

WEATHER FORECAST (TODAY)

WEATHER: Mostly sunny with thin smoke. Smoke increases after 1700.

MAX TEMP: 1500 feet: 83-87
4000 feet: 72-77 **LAL: 1**

MIN RH: 1500 feet: 23-27%
4000 feet: 26-31% **CHC WTG RAIN: 0%**

WIND: 1500 feet: East 3-6 mph becoming upslope/southwest 5-10 mph with gusts to 15 mph by 1300.
(20 FOOT) 4000 feet: East 4-9 mph becoming upslope/southwest 8-12 mph with gusts to 20 mph by 1400.

MIXING HEIGHT: 500 feet rising to 4000 feet around 1400.

TRANSPORT WIND: Northeast 5-10 mph becoming southwest 8-12 mph around 1200, then northeast 5-10 mph after 2100.

VISIBILITY: 4-6 miles decreasing to 2-3 miles around 1800.

FORECAST (TONIGHT):

WEATHER: Smoky.

MIN TEMP: 1500 feet: 70-73
4000 feet: 63-67 **LAL: 1**

MAX RH: 1500 feet: 44-48%
4000 feet: 37-41% **CHC WTG RAIN: 0%**

WIND: 1500 feet: Upslope to 4 mph becoming downslope/northeast 5-10 mph with gusts to 16 mph by 2300.
(20 FOOT) 4000 feet: Upslope to 5 mph becoming downslope/northeast 8-15 mph with gusts to 28 mph by 2300.

MIXING HEIGHT: Falling to 500 feet by midnight.

TRANSPORT WIND: Northeast 6-12 mph.

OUTLOOK (SATURDAY/SATURDAY NIGHT): Smoky with highs 87-91 and lows 70-75. Min RH 15-22% and Max RH 33-40%. Winds upslope 6-12 mph in the late morning and afternoon and downslope 5-10 mph from evening until morning.

OBSERVATIONS THURSDAY (8/20/2020 – Winds are afternoon conditions):

Cohasset (3713 ft): MAX TEMP: 87. MIN RH: 21%. Winds WSW 4 to 6 mph with gusts to 9 mph.

Jarbo Gap (1029 ft): MAX TEMP: 90. MIN RH: 23%. Winds SW 4 to 6 mph with gusts to 12 mph.

Carpenter Ridge (4816 ft): MAX TEMP: 81. MIN RH: 23.



← SubmitWx/Fire Observations



Nearby RAWs Observations →

FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 3	TYPE OF FIRE: Wildland Fire
FIRE NAME: BTU/TGU Lightning Complex	OPERATIONAL PERIOD: 24hr 8/21 (0700-0700)
DATE ISSUED: 8/20/2020	TIME ISSUED: 1800
UNIT: BTU	SIGNED: Jonathan Pangburn, FBAN <i>J.Pangburn</i>

INPUTS

WEATHER SUMMARY ****LIGHTER WIND, LOW RH****
See Weather Forecast in IAP.

OUTPUTS

GENERAL:

1,000-hr dead fuel moisture at 90th-97th percentile. Severe Drought conditions. Rapid growth and spotting with slope/wind alignment. Brush highly receptive to burning. Lower elevation reduced fire behavior with smoke shading out fuels, moderate to rapid rates of spread in clear skies, especially above 2,000 ft.

BUTTE ZONE

In the absence of weather conditions outside the forecast or extreme fire behavior conditions expect:

	Max. Flame Length	Max. Rate of Spread	Spotting	Probability of Ignition
Grass	< 7' (2 m)	65 ch/hr (1.3 km/hr)	< 1/3 mile (4 km)	85% (with clear sky)
Grass/Shrub Mix	< 5' (1.5 m)	20 ch/hr (0.8 km/hr)	< 1/3 mile (4 km)	60% (with clear sky)
Shrub	< 20' (6 m)	85 ch/hr (1.9 km/hr)	< 1/3 mile (4 km)	85% (with clear sky)
Timber Understory	< 10' (3 m)	45 ch/hr (0.9 km/hr)	< 1/3 mile (4 km)	85% (with clear sky)
Timber Litter	< 2' (0.6 m)	5 ch/hr (0.1 km/hr)	< 1/3 mile (4 km)	85% (with clear sky)

****minimum safety zone size for brush fuels is 1/2-acre (0.2 Ha) for a Strike Team of Engines.**
****minimum safety zone size for timber fuels is 1/3-acre (0.1 Ha) for a Strike Team of Engines.**

SPECIFIC:

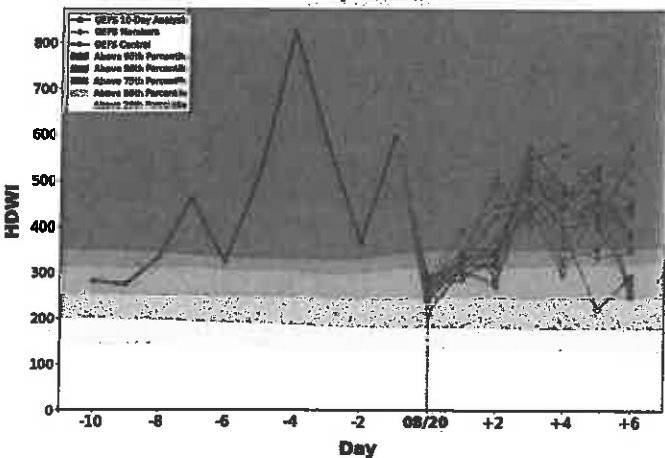
Areas considered dormant may flare with afternoon winds. Butte Creek drainage will see wind channeling and up canyon runs. Timber understory and litter.

Expect rapid rates of spread in grass fuels wherever torching and ember cast is seen.

New starts will see rapid growth and establishment. Hot Dry Windy Index well above 95th percentile in timber

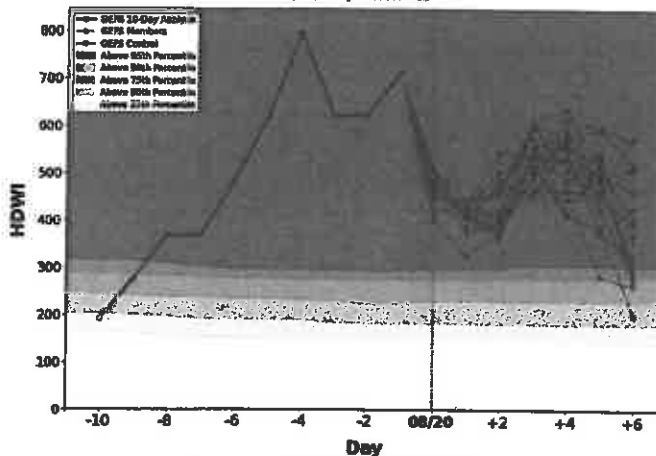
**Butte Foothills
Max Daily HDWI**

GEFS Analysis and Forecast & 1981-2010 CF5R Climatology
39.5°N, 121.5°W



**Butte Timber
Max Daily HDWI**

GEFS Analysis and Forecast & 1981-2010 CF5R Climatology
40.0°N, 121.5°W



AIR OPERATIONS:

Expect smoky conditions in Butte Zone below 2,000 ft. Mostly clear skies above with afternoon & evening cross winds.

Mixing height: 4,000 ft. AGL where clear, Transport winds: SW 5-10 mph, Sunrise 0624, Sunset 1955.

SAFETY

Intense fire runs are possible. Make sure you know where your safety zone is & the time it takes to get there.

ASSIGNMENT LIST (ICS 204 WF)

CONTROLLED UNCLASSIFIED
INFORMATION/BASIC

1. Incident Name: BTU/TGU Lightning Complex	2. Operational Period: Date From: 08/21/20 Date To: 08/22/20 Time From: 0700 Time To: 0700	3. Branch Division I AA Page 1 of 1 Alpha-Alpha
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4. Operations Personnel:	
Operations Section Chief: Shane Lauderdale (Day), Jeremi Roesler (T)	Deputy Ops: Garrett Sjolund (Butte Zone)
Branch Director: Jason Dyer	Branch Safety:
Division/Group Supervisor: Tim Cossone	Air Attack:

5. Resources Assigned:		** Resources Below in Bold are 12-Hour **					
Resource Identifier	ALS	LWD	Leader	Personnel	Request #	Hours	Reporting Location
DOZ PVT E-6 - GREG HUMPHERY					E-6-BTU LIGHT	0700-0700	Carpenter Ridge
DOZ PVT E-7 - KITE SOLUTION					E-7-BTU LIGHT	0700-0700	Carpenter Ridge
DOZ PVT E-11- TRG					E-11-POTTERS	0700-0700	Carpenter Ridge
DOZ PVT E-26 - ACT FAST					E-26-BTU LIGHT	0700-0700	Carpenter Ridge
DOZ PVT E-27 - BRAUN					E-27-BTU LIGHT	0700-0700	Carpenter Ridge
DOZ PVT E-28 - COTTONWOOD					E-28-BTU LIGHT	0700-0700	Carpenter Ridge
DOZ PVT E-29 - ERIC SPRATT					E-29-BTU LIGHT	0700-1900	Carpenter Ridge
DOZ PVT E-30 - MELANIE					E-30-BTU LIGHT	0700-0700	Carpenter Ridge
DOZ PVT E-31 - SONNY					E-31-BTU LIGHT	0700-0700	Carpenter Ridge
HEQB COLLINS			COLLINS, DAN		0-30-BTU LIGHT	0700-1900	Carpenter Ridge
DOZ PVT E-5 DIAMOND FX → 95			CRAIG		E-5 BTU LIGHT	0700-0700	CARPENTER RIDGE

6. Work Assignments:
 Identify all fires with GPS location, fire size, handline needs, and percentage of containment.
 Mop up 100'. Cut and improve line where needed.
 Backhaul trash.

7. Special Instructions:
 No designated Safety Officers and no designated Line Medics. These positions are typically associated with team deployments however with resource draw down they are unavailable.
 Strike Team Leaders identify Safety Officer and Line Medic qualification and make them known to your Division Supervisor.

8. Communications

Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
CDF C1	1	COMMAND	151.3550 N	103.5 (T8)	159.3000 N	131.8 (T3)	BLOOMER MTN
CDF T24	3	TACTICAL	151.3325 N	192.8 (T16)	151.3325 N	192.8 (T16)	BRANCH I/X
CDF T18	14	AIR TO GROUND	159.3450 N	192.8 (T16)	159.3450 N	192.8 (T16)	
CALCORD	15	MEDICAL	156.0750 N	T56.7 (T6)	156.0750 N	156.7 (T6)	
AIRGUARD V1	16	AIRGUARD	168.6250 N		168.6250 N	110.9 (T1)	

9. Prepared by: Name: Gwyndolyn Ozard RESL

Signature: *Gwyndolyn Ozard*

ICS 204 Date/Time: 8/20/2020 2200 Personnel Count: 0

CONTROLLED UNCLASSIFIED INFORMATION/BASIC

ASSIGNMENT LIST (ICS 204 WF)

CONTROLLED UNCLASSIFIED
INFORMATION/BASIC

1. Incident Name: BTU/TGU Lightning Complex	2. Operational Period: Date From: 08/21/20 Date To: 08/22/20 Time From: 0700 Time To: 0700	3. Branch Division V HH
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4. Operations Personnel:		Page 1 of 1 Hotel-Hotel
Operations Section Chief:	Shane Lauderdale (Day), Jeremi Roesler (T)	Deputy Ops: Garrett Sjolund (Butte Zone)
Branch Director:		Branch Safety:
Division/Group Supervisor:	Jason Finney	Air Attack:

5. Resources Assigned:		** Resources Below in Bold are 12 Hour **						
Resource Identifier	ALS	LWD	Leader	Personnel	Request #	Hours	Reporting Location	
ENG3 BTU 2166					E-110-BTU LIGHT	0700-1900	Inskip	
ENG3 BTU 2185					E-111-BTU LIGHT	0700-1900	Inskip	
ENG3 BTC 321					E-107-BTU LIGHT	0700-1900	Inskip	
STG TGU 9254G			JORGENSEN, DYLAN	33 +/-	C-1-TGU BAT 3	0700-1900	Inskip	
STG LMU 9225H			MADSON, JOE	33	C-6-BTU LIGHT	0700-0700	Inskip	
DOZ BTU 2140						0700-0700	Inskip	
DOZ BTU 2149					E-147-BTU LIGHT	0700-0700	Inskip	
DOZ BUTTE 1						0700-0700	Inskip	
W/T PVT E-14 - GARR					E-14-POTTERS	0700-0700	Inskip	
W/T1 PVT E-25 - CONVERSE					E-25-BTU LIGHT	0700-0700	Inskip	

6. Work Assignments:
 Identify all fires with GPS location, fire size, handline needs, and percentage of containment.
 Mop up 100'. Cut and improve line where needed.
 Backhaul trash.

7. Special Instructions:
 No designated Safety Officers and no designated Line Medics. These positions are typically associated with team deployments however with resource draw down they are unavailable.
 Strike Team Leaders identify Safety Officer and Line Medic qualification and make them known to your Division Supervisor.

8. Communications							
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
CDF C1	1	COMMAND	151.3550 N	103.5 (T8)	159.3000 N	131.8 (T3)	BLOOMER MTN
CDF T30	5	TACTICAL	151.3925 N	192.8 (T16)	151.3925 N	192.8 (T16)	BRANCH V
CDF T18	14	AIR TO GROUND	159.3450 N	192.8 (T16)	159.3450 N	192.8 (T16)	
CALCORD	15	MEDICAL	156.0750 N	T56.7 (T6)	156.0750 N	156.7 (T6)	
AIRGUARD V1	16	AIRGUARD	168.6250 N		168.6250 N	110.9 (T1)	

9. Prepared by: Name:	Gwyndolyn Ozard	RESL	Signature: 
ICS 204	Date/Time: 8/20/2020	2200	Personnel Count: 66

ASSIGNMENT LIST (ICS 204 WF)

CONTROLLED UNCLASSIFIED
INFORMATION/BASIC

1. Incident Name: BTU/TGU Lightning Complex	2. Operational Period: Date From: 08/21/20 Date To: 08/22/20 Time From: 0700 Time To: 0700	3. Branch Division V PP Page 1 of 1 Papa-Papa
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4. Operations Personnel:		
Operations Section Chief: Shane Lauderdale (Day), Jeremi Roesler (T)	Deputy Ops: Garrett Sjolund (Butte Zone)	
Branch Director:	Branch Safety:	
Division/Group Supervisor: #REF! MIKE CONTAY	Air Attack:	

5. Resources Assigned: ** Resources Below in Bold are 12 Hour **							
Resource Identifier	ALS	LWD	Leader	Personnel	Request #	Hours	Reporting Location
ENG3 BTU 2170					E-109-BTU LIGHT	0700-1900	Inskip
ENG3 BTU 2182					E-113-BTU LIGHT	0700-1900	Inskip
ENG3 BTC 327						0700-1900	Inskip
CRW1 C-11 BFC1				16 +/-	C-11-BTU LIGHT	0700-1900	Inskip
CRW1 C-12 BFC2				16 +/-	C-12-BTU LIGHT	0700-1900	Inskip
DOZ SHU 2442					E-8-POTTERS	0700-0700	Inskip
DOZ PVT E-8 - MCGOWAN					E-8-BTU LIGHT	0700-0700	Inskip
DOZ PVT E-12- ACT FAST					E-12-POTTERS	0700-0700	Inskip
W/T1 BTC 42					E-124-BTU LIGHT	0700-1900	Inskip
W/T1 PVT E-17 - FORD					E-17-POTTERS	0700-0700	Inskip
W/T1 PVT E-19 - BLACK					E-19-BTU LIGHT	0700-0700	Inskip
WT BTC 31 FM UNASSIGNED			RAY JOHNSON			0700-1900	" "
CRW2 C-13 & FUELS 2149 FM SS				16 +/-		0700-1900	

6. Work Assignments:
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CDF T32	6	TACTICAL	151.2425 N	192.8 (T16)	151.2425 N	192.8 (T16)	BRANCH V
CDF T18	14	AIR TO GROUND	159.3450 N	192.8 (T16)	159.3450 N	192.8 (T16)	
CALCORD	15	MEDICAL	156.0750 N	T56.7 (T6)	156.0750 N	156.7 (T6)	
AIRGUARD V1	16	AIRGUARD	168.6250 N		168.6250 N	110.9 (T1)	

9. Prepared by: Name:	Gwyndolyn Ozard	RESL	Signature:
ICS 204	Date/Time: 8/20/2020 2200		Personnel Count: 32

ASSIGNMENT LIST (ICS 204 WF)

CONTROLLED UNCLASSIFIED
INFORMATION//BASIC

1. Incident Name: BTU/TGU Lightning Complex	2. Operational Period: Date From: 08/21/20 Date To: 08/22/20 Time From: 0700 Time To: 0700	3. Branch Division V SS
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4. Operations Personnel:		Page 1 of 1 Sierra-Sierra
Operations Section Chief:	Shane Lauderdale (Day), Jeremi Roesler (T) Deputy Ops: Garrett Sjolund (Butte Zone)	
Branch Director:		
Division/Group Supervisor:	Mike Conaty JEFF EDSON Air Attack:	

5. Resources Assigned: ** Resources Below in Bold are 12 Hour **							
Resource Identifier	ALS	LWD	Leader	Personnel	Request #	Hours	Reporting Location
STC XSU 3225C			EPPERSON, RICHARD	18 +/-	E-1-BTU LIGHT	0700-1900	
ENG3 BTU 2163					E-112-BTU LIGHT	0700-1900	
ENG3 BTU 2182 DIV PP					E-113-BTU LIGHT	0700-1900	
ENG2 BTC 44 DMOB Replaced BY BTU ENG 2168 J. HAWKINS				4	E-118-BTU LIGHT	0700-1900	
ENG BTC E55						0700-1900	
ENG2 BTC 63 DMOB Replaced BY BTC ENG 32 B. WESLEY DANIELS				4	E-117-BTU LIGHT	0700-1900	
ENG3 PRA 382					E-106-BTU LIGHT	0700-1900	
CRW2 C-13 FUELS 2149 -> PP				16 +/-	C-13-BTU LIGHT	0700-1900	
W/T1 OES WT-31					E-128-BTU LIGHT	0700-0700	
W/T PVT E-13-PRODUMP					E-13-POTTERS	0700-0700	
W/T PVT E-15 -DAVIS					E-15-POTTERS	0700-0700	
W/T PVT E-16					E-18-POTTERS	0700-0700	
HEOB LEWIS			PATRICK LEWIS	1	0-	0700-	
HEOB SIMMS (T)			PETE SIMS	1	0-	0700-	

6. Work Assignments:
Identify all fires with GPS location, fire size, handline needs, and percentage of containment.
Mop up 100'. Cut and improve line where needed.
Backhaul trash.

7. Special Instructions:
No designated Safety Officers and no designated Line Medics. These positions are typically associated with team deployments however with resource draw down they are unavailable.
Strike Team Leaders identify Safety Officer and Line Medic qualification and make them known to your Division Supervisor.

8. Communications							
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
CDF C1	1	COMMAND	151.3550 N	103.5 (T8)	159.3000 N	131.8 (T3)	BLOOMER MTN
VFIRE 23	7	TACTICAL	154.2950 N	156.7 (T6)	154.2950 N	156.7 (T6)	BRANCH V
CDF T18	14	AIR TO GROUND	159.3450 N	192.8 (T16)	159.3450 N	192.8 (T16)	
CALCORD	15	MEDICAL	156.0750 N	T56.7 (T6)	156.0750 N	156.7 (T6)	
AIRGUARD V1	16	AIRGUARD	168.6250 N		168.6250 N	110.9 (T1)	

9. Prepared by: Name: Gwyndolyn Ozard	RESL	Signature:
ICS 204	Date/Time: 8/20/2020 2200	Personnel Count: 34

ASSIGNMENT LIST (ICS 204 WF)

CONTROLLED UNCLASSIFIED
INFORMATION/BASIC

1. Incident Name: BTU/TGU Lightning Complex	2. Operational Period: Date From: 08/21/20 Date To: 08/22/20 Time From: 0700 Time To: 0700	3. Branch Division X GG Page 1 of 1 Golf-Golf
---	---	---

4. Operations Personnel:	
Operations Section Chief: Shane Lauderdale (Day), Jeremi Roesler (T)	Deputy Ops: Garrett Sjolund (Butte Zone)
Branch Director: Chad Porter	Branch Safety:
Division/Group Supervisor:	Air Attack:

5. Resources Assigned:		** Resources Below in Bold are 12 Hour **					
Resource Identifier	ALS	LWD	Leader	Personnel	Request #	Hours	Reporting Location
SHU T/F 01					E-52-BTU LIGHT	0700-1900	
CNR T/F 02					E-18-BTU LIGHT	0700-1900	
ENG3 BTU 2167					E-108-BTU LIGHT	0700-1900	
ENG3 BTU 2181					E-114-BTU LIGHT	0700-1900	
ENG3 BTC 366					E-116-BTU LIGHT	0700-1900	
ENG3 GRD 376					E-115-BTU LIGHT	0700-1900	
ENG3 PNF E330	RELEASED TO FOREST 8/20 @ 19:30 FOR NEW FIRE ON FED LAND					0700-1900	
ENG6 BTC 664					E-121-BTU LIGHT	0700-1900	
DOZ PVT E-5 - DIAMOND	→ DIV AA				E-5-BTU LIGHT	0700-0700	
W/T1 EMD 3					E-129-BTU LIGHT	0700-0700	
W/T1 BTC 52					E-128-BTU LIGHT	0700-0700	
W/T1 BTC 64					E-131-BTU LIGHT	0700-0700	
W/T1 BTC 67				DARRIN READ	E-127-BTU LIGHT	0700-0700	
W/T1 PVT E-18 - MARYMEE					E-18-POTTERS	0700-0700	
W/T1 PVT E-23 - TWO BROTHER					E-23-BTU LIGHT	0700-0700	
W/T1 PVT E-24 - COLEMAN					E-24-BTU LIGHT	0700-0700	
W/T PVT E-82						0700-0700	
FALM Matney			Matney		O-35-BTU LIGHT	0700-1900	

6. Work Assignments:
 Identify all fires with GPS location, fire size, handline needs, and percentage of containment.
 Mop up 100'. Cut and improve line where needed.
 Backhaul trash.

7. Special Instructions:
 No designated Safety Officers and no designated Line Medics. These positions are typically associated with team deployments however with resource draw down they are unavailable.
 Strike Team Leaders identify Safety Officer and Line Medic qualification and make them known to your Division Supervisor.

8. Communications							
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
CDF C1	1	COMMAND	151.3550 N	103.5 (T8)	159.3000 N	131.8 (T3)	BLOOMER MTN
CDF T24	3	TACTICAL	151.3325 N	192.8 (T16)	151.3325 N	192.8 (T16)	BRANCH IX
CDF T18	14	AIR TO GROUND	159.3450 N	192.8 (T16)	159.3450 N	192.8 (T16)	
CALCORD	15	MEDICAL	156.0750 N	T56.7 (T6)	156.0750 N	156.7 (T6)	
AIRGUARD V1	16	AIRGUARD	168.6250 N		168.6250 N	110.9 (T1)	

9. Prepared by: Name: Gwyndolyn Ozard		RESL	Signature:
ICS 204	Date/Time: 8/20/2020 2200	Personnel Count: 0	

NIMS IAP

CONTROLLED UNCLASSIFIED INFORMATION/BASIC



SAFETY MESSAGE

BTU TGU Lightning Complex

August 21, 2020 0700-0700 CA-BTU-009692



GENERAL ILLNESS

FATIGUE, HOT WEATHER, HARD EXHAUSTIVE WORK PUTS US AT RISK

Watch Out

- **Hot weather** causes dehydration, heat exhaustion and serious medical emergencies
- **Hard exhaustive work** increases core temperature, weakens the body's ability to function healthy and causes fatigue
- **Fatigue** Causes poor judgement and decreased work performance affecting safety

Mitigation

- Rest and water hydration reduces fatigue and exhaustion emergencies
- Drink plenty of water and eat right- **START EARLY** – reduce caffeine input take breaks throughout the work-period and take measures to cool down
- Reduced Caloric intake can contribute to Fatigue and potentially Rhabdomyolysis

UNDERSTANDING THE PLAN

Multiple Agencies Working in Coordination

Watch Out

- Operational briefing not being passed down to lowest level
- Objectives not clear
- Lack of participation at briefings

Mitigations

- Leaders hold the responsibility to provide complete briefings and ensure their subordinates have a clear understanding of the plans intent
- All personnel who have not received a briefing shall notify their direct supervisor prior to engaging
- Supervisors will ensure briefings are attended and personnel understand their role

Chainsaw Felling Accidents

IDENTIFY HAZARDS / WORK WITHIN QUALIFICATION / CONSIDER ALTERNATIVES

- Tree hang-ups account for 25% of felling fatalities. When a tree you are working on becomes a hang-up, reconsider the risks to personnel safety and consider alternatives and mitigations.
- Are you qualified and confident with felling assignment?
- All sawyers have the authority to decline a felling assignment if they feel it is unsafe. Or if the assignment exceeds their training, qualification or experience.
- Consider alternatives to felling hazard trees.
 - Utilize heavy equipment to remove the hazard
 - Restrict access
 - Notify and Utilize signs/flagging to communicate the hazard
- Bucking operations can also be hazardous. Alternatives can also be used for bucking operations (e.g. use mitigation measures to restrict access, use heavy equipment, decline assignment if here are no mitigations).

REMAIN FIRE FOCUSED AND COVID-19 AWARE

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INCIDENT ACTION PLAN SAFETY ANALYSIS (ICS 215A)



1. Incident Name: Tehama Glen Zone		2. Incident Number: 20-CA-TGU-	
3. Date/Time Prepared: Date: 08/20/2020 Time: 1700 hours		4. Operational Period: Date From: 08/21/2020 To: 08/22/2020 Time From: 0700 hours To: 0700 hours	
5. Incident Area	6. Hazards/Risks	7. Mitigations	
ALL	Fatigue – physical and mental	Continually monitor your crew. Know the signs and symptoms of heat illness. Plan for a 2-1 Work Rest Work Cycle	
ALL	Narrow roadways – extended distances to lodging; passing on undivided highways; slow moving truck traffic; low visibility from dust	Turn lights on, observe speed limits and expect vehicles opposing traffic. Plan for extended travel times.	
ALL	Dehydration / Rhabdomyolysis	With the long operational shifts and high humidity's, maintain your crews water and caloric intake regimen.	
ALL	Working around heavy equipment	Maintain eye-to-eye contact with the operator. Have fire suppression support when operating in dry fuels.	
ALL	Poor communications	Review ICS 205 and ensure radio clone is current.	
ALL	Steep, unstable terrain	Watch footing and maintain downhill tool placement. Be aware of loose material. Look for ash pits and stump holes.	
ALL	Unburned areas	LCES - utilize worst case scenario when working in or around pockets of unburned fuels.	
ALL	Hazardous Trees	IRPG Pg 22: Identify and Flag Hazardous Trees. Eliminate hazardous trees with qualified sawyers or heavy equipment.	
ALL	Personal Protective Equipment (PPE)	Wear appropriate PPE for all operations until your supervisor indicates its safe to remove.	
ALL	Highway 99/32 CAL TRANS Be aware of logging trucks working in the area	Drive slow through the construction areas. Expect delays along Hwy 99.	
ALL	COVID-19: Reduce exposure potential to yourself, your crew and the public	<u>Wear a mask</u> while in the ICP, while feeding and with the public, and when six feet of social distancing is difficult. Wash hands for at least 20-seconds.	
ALL	Helicopters - Water Drops and Turbulence	Post lookouts and make escape routes and safety zones know. LCES. Watch overhead for hazard trees and wind changes.	
Ground Support	Personnel and vehicles moving around one another in tight areas	Chock wheels. Use spotters and backers. Follow mechanic direction.	
8. Prepared by (Safety Officer): Name: Douglas M Ferro		Signature:	
Prepared by (Deputy Operations Section Chief): Name: Shane Lauderdale		Signature:	
ICS 215A		Date/Time: 08.20.2020 1700 Hours	

ICS 205 - INCIDENT RADIO COMMUNICATIONS PLAN

1. Incident Name: BTU/TGU Lightning Complex BUTTE ZONE	2. Date/Time Prepared Date: 08/20/2020 Time: 1930	3. Operational Period: Date From: 08/21/20 Time From: 0700 Date To: 08/22/20 Time To: 0700
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4. Communications		Assigned To	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
Ch#	Function	Name					
1	COMMAND	CDF C1	151.3550 N	103.5 (T8)	159.3000 N	131.8 (T3)	BLOOMER MTN
2	COMMAND	BUTTE CMD	154.4150 N	123.0 (T2)	159.0000 N	136.5 (T4)	
3	TACTICAL	CDF T24	151.3325 N	192.8 (T16)	151.3325 N	192.8 (T16)	BRANCH IX
4	TACTICAL	CDF T29	151.3475 N	192.8 (T16)	151.3475 N	192.8 (T16)	BRANCH I
5	TACTICAL	CDF T30	151.3925 N	192.8 (T16)	151.3925 N	192.8 (T16)	BRANCH V
6	TACTICAL	CDF T32	151.2425 N	192.8 (T16)	151.2425 N	192.8 (T16)	BRANCH V
7	TACTICAL	VFIRE 23	154.2950 N	156.7 (T6)	154.2950 N	156.7 (T6)	BRANCH V
8							
9							
10							
11							
12							
13							
14	AIR TO GROUND	CDF T18	159.3450 N	192.8 (T16)	159.3450 N	192.8 (T16)	
15	MEDICAL	CALCORD	156.0750 N	156.7 (T6)	156.0750 N	156.7 (T6)	
16	AIRGUARD	AIRGUARD V1	168.6250 N		168.6250 N	110.9 (T1)	
17							
18							
19							
20							

5. Special Instructions

6. Prepared by (Communications Unit Leader): Name: Mike Heyfron COML
 Signature: 
 Date/Time: 08/20/20 1930

ICS 205 - INCIDENT RADIO COMMUNICATIONS PLAN

1. Incident Name: BTU/TGU Lightning Complex TEHAMA ZONE		2. Date/Time Prepared Date: 08/20/2020 Time: 1930		3. Operational Period: Date From: 08/21/20 Time From: 0700		Date To: 08/22/20 Time To: 0700		
4. Communications								
Ch#	Function	Name	Assigned To	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
1	COMMAND	CDF C7	ALL DIVS	151.4600	103.5 (T8)	159.3900	110.9 (T1)	
2								
3								
4	TACTICAL	CDF T1	DIV C	151.2527 N	192.8 (T16)	151.2527 N	192.8 (T16)	
5	TACTICAL	CDF T30	DIV G	151.3925 N	192.8	151.3925 N	192.8	
6	TACTICAL	VFIRE 26	DIV Q	154.3025 N	156.7 (T6)	154.3025 N	156.7 (T6)	
7								
8								
9								
10								
11								
12								
13								
14	TACTICAL	CDF T15	ALL DIVS	159.2700 N	192.8 (T16)	159.2700 N	192.8 (T16)	
15	MEDICAL	CALCORD	ALL DIVS	156.0750 N	T6 - 156.7	156.0750 N	T6 - 156.7	
16	AIRGUARD	AIRGUARD V1	ALL DIVS	168.6250 N		168.6250 N	110.9 (T1)	
17								
18								
19								
20								
5. Special Instructions								
Prepared by (Communications Unit Leader): Name: _____ Signature: <i>[Signature]</i> Date/Time: 08/20/20 1930								

ICS 205 - INCIDENT RADIO COMMUNICATIONS PLAN

CONTROLLED UNCLASSIFIED
INFORMATION//BASIC

1. Incident Name: BTU/TGU Lightning Complex GLENN ZONE		2. Date/Time Prepared Date: 08/20/2020 Time: 1930		3. Operational Period: Date From: 08/21/20 Time From: 0700		Date To: 08/22/20 Time To: 0700		
4. Communications								
Ch#	Function	Name	Assigned To	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
1	COMMAND	CDF C7	ALL DIVS	151.4600	103.5 (T8)	159.3900	110.9 (T1)	
2								
3								
4	TACTICAL	CDF T28	DIV BB/CC	151.1825	192.8 (T16)	151.1825	192.8 (T16)	BRANCH XX
5	TACTICAL	CDF T29	DIV WW	151.3475 N	192.8	151.3475 N	192.8	BRANCH XXV
6								
7								
8								
9								
10								
11								
12								
13								
14	TACTICAL	CDF T15	ALL DIVS	159.2700 N	192.8 (T16)	159.2700 N	192.8 (T16)	
15	MEDICAL	CALCORD	ALL DIVS	156.0750 N	T6 - 156.7	156.0750 N	T6 - 156.7	
16	AIRGUARD	AIRGUARD V1	ALL DIVS	168.6250 N		168.6250 N	110.9 (T1)	
17								
18								
19								
20								
5. Special Instructions								
6. Prepared by (Communications Unit Leader): Name:				Signature:				
ICS 205 - CONTROLLED UNCLASSIFIED INFORMATION//BASIC				Date/Time: 08/20/20 1930				

MEDICAL PLAN (ICS 206)

1. Incident Name: <p style="text-align: center; font-weight: bold;">BUTTE ZONE</p>	2. Operational Period: Date From: <u>8/21/20</u> Date To: <u>8/22/20</u> Time From: <u>0700</u> Time To: <u>0700</u>
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Name	Location	Contact Number/Freq	Paramedics

4. Transportation (Indicate air or ground):

Ambulance Service	Location	Contact Number	Level of Service
Butte County EMS	Chico, CA	530-895-9124	ALS
Air Ambulance-Reach / CALSTAR	Marysville, CA	800-338-4045	RN
Enloe Air Ambulance	Chico, CA	800-344-1863	RN

5. Hospitals:

Hospital Name	Address,		Contact Number(s)/ Frequency	Travel Time		Trauma Center	Burn Center	Helipad
	Lat & Long	Helipad		Air	Ground			
Enloe Medical Center	39.7426	-121.8497	530 332-7743	7	20	Level 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Oroville Hospital	39.5067	-121.5411	530 532-8334	7	20	Level 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UC Davis Medical Center	38.5549	-121.4552	916 734-3790	30	90	Level 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

6. Special Medical Emergency Procedures

Line Emergency
Crew Supervisor will contact Division Supervisor with patient complaint/condition and location.

- Division Group Supervisor Contacts:
 1. Closest EMS resource
 2. Communications Unit
- Communications Unit Contacts:
 1. Ground or Air ambulance as requested.
 2. Operations
 3. Safety
 4. Medical Unit
- Division Supervisor or designee will serve as point of contact and run medical emergency on assigned channel.
 1. A pre-assigned tactical frequency (i.e. CALCORD) should be used for IWI and only for duration of the emergency.
- Communications Unit will clear the Command channel for emergency traffic as needed for duration of the need.

Camp Emergency
Contact Medical Unit with patient complaint/condition and location. Medical staff will respond to stabilize the patient.

- Medical Unit contacts
 1. Communications
 2. Safety
 3. Logistics
 4. Operations
 5. Crew Supervisor
 6. Comp/Claims

Injury Reporting Procedures

Nature of Injury: _____
 Location of Patient: _____
 Point of Contact: _____
 Transportation Requested by: Air _____ Ground _____
 Point of Pick-Up: _____
 Lat: _____ Long: _____
 Patient Unit ID: _____
 Is an EMT with Patient: Yes _____ No _____
 Age: _____ Sex: Male _____ Female _____

All Emergencies - Secure the area and identified witnesses for later investigation. Keep accurate log of events.

Check box if aviation assets are utilized for rescue. If assets are used, coordinate with Air Operations.

7. Prepared by (Medical Unit Leader): L. Juliussen Signature:

8. Approved by (Safety Officer): M. Bergstrand Signature: _____

ICS 206	NIMS IAP	Date/Time: _____
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**BTU/TGU LIGHTNING COMPLEX
CA-BTU-009841
REMOTE CHECK-IN**



**Please use this code to Check In to the
BTU/TGU LIGHTNING COMPLEX**

REMEMBER: YOU MUST STILL VISIT TIME UNIT!

TRAINING SPECIALIST MESSAGE

A Training Specialist is available for trainees on the incident.

All State, Federal and local government agency Trainees working on Position Task Books will need to register with the Incident Training Specialist in order to receive proper credit for your assignment.

Training Specialist's

Dennis Martin

(707) 479-8421



Register using the QR Code

Travel Map Butte North

Butte Lightning Complex
CA-BTU-009692



From Butte Fire Center to Fires off Powellton Rd:

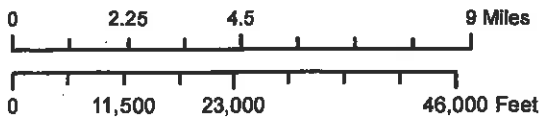
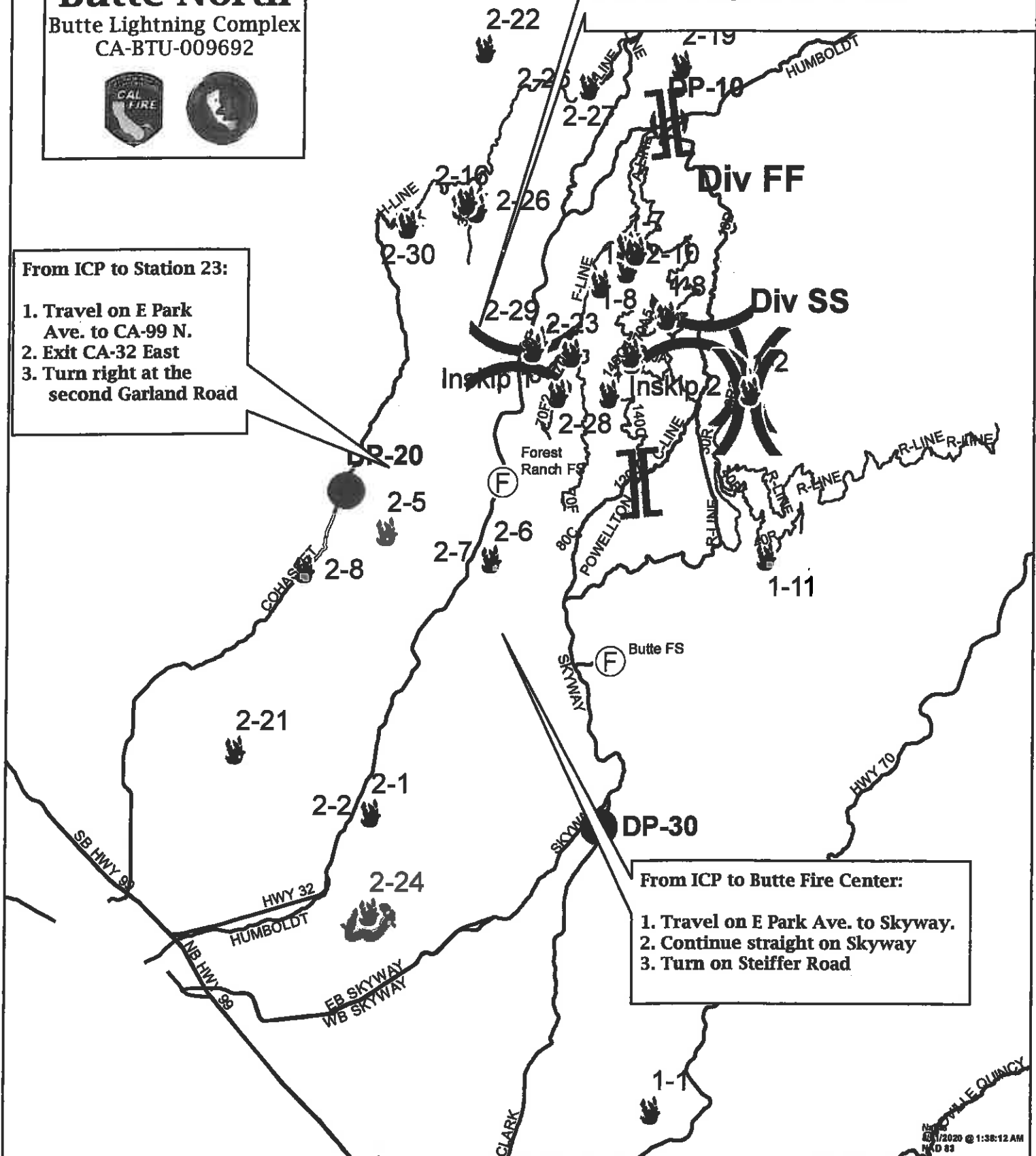
1. Turn Right on Skyway.
2. Turn left on Powellton Rd
3. Access through various SPI roads

From ICP to Station 23:

1. Travel on E Park Ave. to CA-99 N.
2. Exit CA-32 East
3. Turn right at the second Garland Road

From ICP to Butte Fire Center:

1. Travel on E Park Ave. to Skyway.
2. Continue straight on Skyway
3. Turn on Steiffer Road



- ▣ Incident Command Post
- ⊙ Water Source
- ▬ Uncontrolled Fire Edge
- H Hand Line
- ⊙ Staging Area
- ⊙ Helibase
- XXXX Completed Dozer Line
- Drop Point
- Heilspot
- Completed Line

11/17/2020 @ 1:38:12 AM
110 83

Travel Map Butte South

BTU/TGU Lightning Complex
CA-BTU-009841

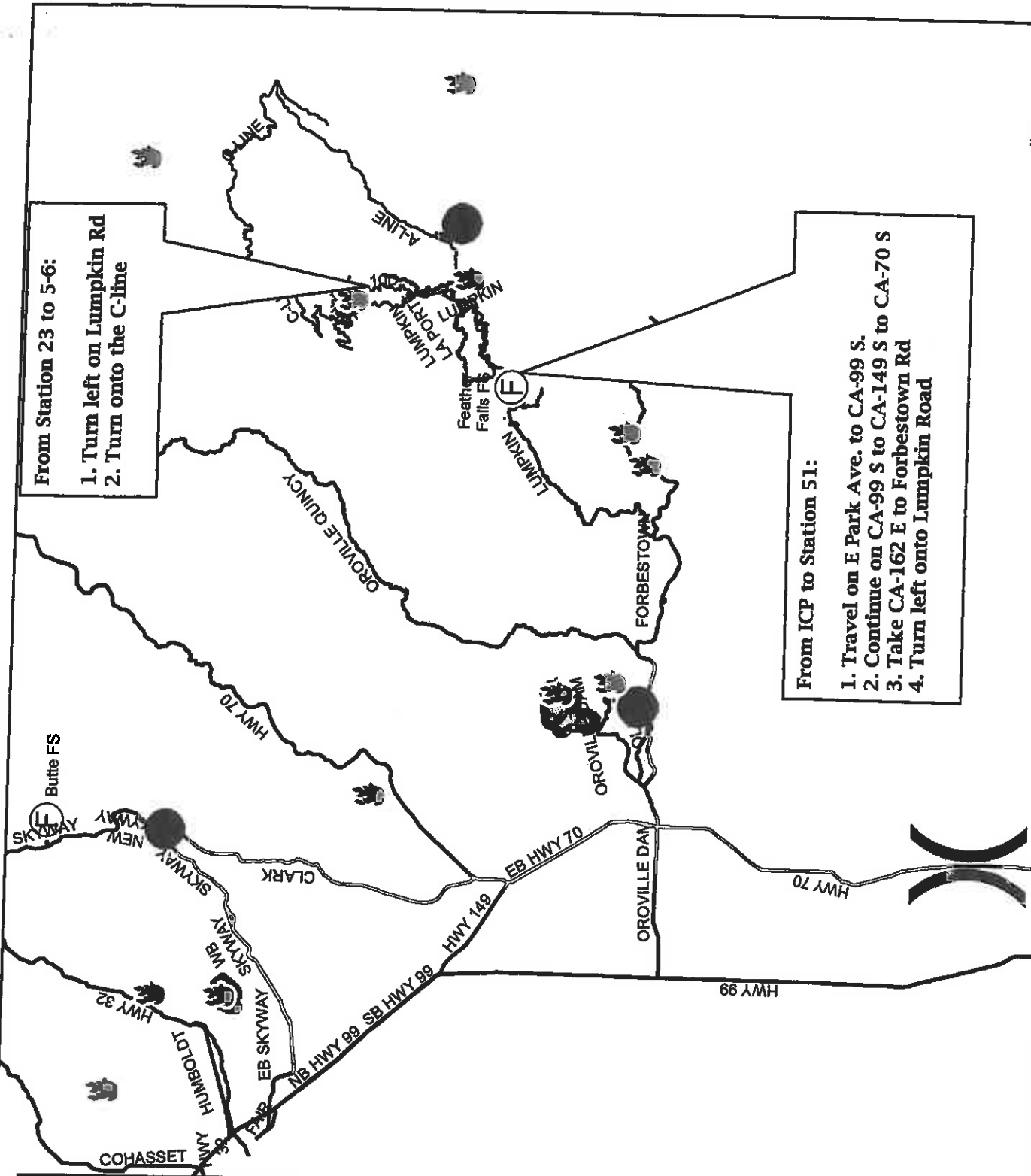


From Station 23 to 5-6:

1. Turn left on Lumpkin Rd
2. Turn onto the C-line

From ICP to Station 51:

1. Travel on E Park Ave. to CA-99 S.
2. Continue on CA-99 S to CA-149 S to CA-70 S
3. Take CA-162 E to Forbestown Rd
4. Turn left onto Lumpkin Road

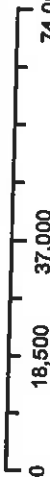


Map
APR15/20 @ 1:55:07 AM
MJD LB

20 Miles



74,000 Feet



- Incident Command Post
- Water Source
- Uncontrolled Fire Edge
- Staging Area
- Helibase
- Completed Dozer Line
- Drop Point
- Helispot
- Completed Line
- H - Hand Line

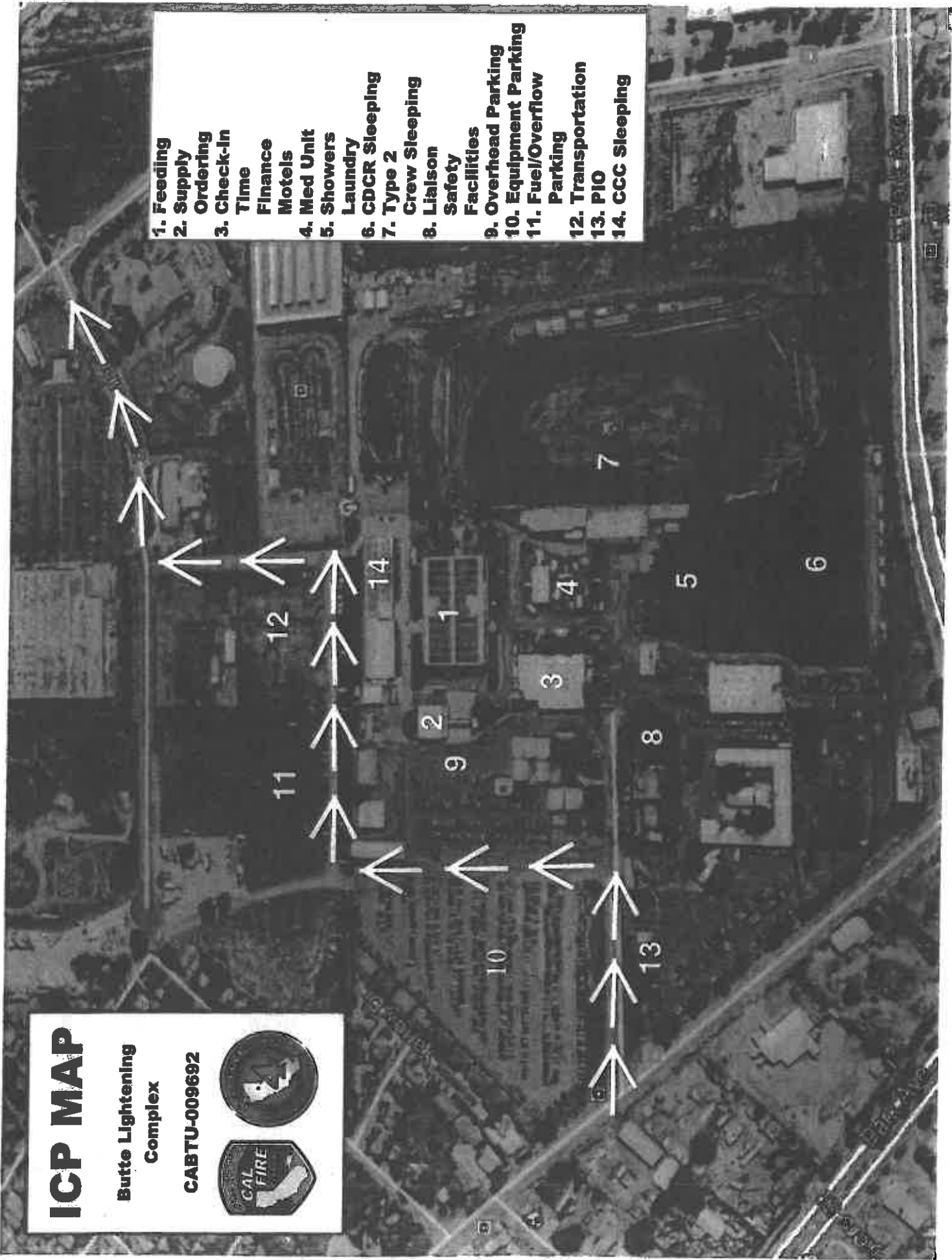
ICP MAP

Butte Lightning
Complex

CABTU-009692



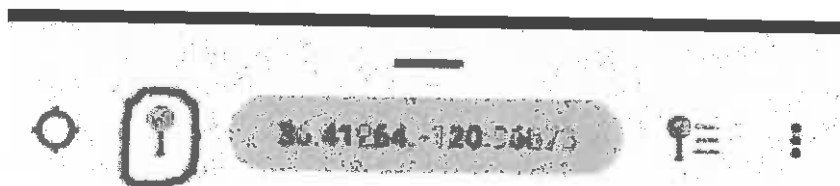
1. Feeding
2. Supply Ordering
3. Check-In Time
4. Finance Motels
5. Med Unit
6. Showers
7. Laundry
8. CDCR Sleeping
9. Type 2 Crew Sleeping
10. Liaison Safety Facilities
11. Overhead Parking
12. Equipment Parking
13. Fuel/Overflow Parking
14. Transportation
15. PIO
16. CCC Sleeping



AVENZA MAP HOW TO QUICK GUIDE

Add a Placemark:

1. Pan to a position on the map centered by the crosshair (select exact location, not the road nearby)
2. Tap Add Placemark. A placemark is added with the default icon color, name (can be changed)



3. Name Placemark under Title.
4. Change symbol, if desired.
5. Click Submit.

Changing Placemark Details:

1. Tap the placemark on the map to display the label
2. Tap icon on the placemark label to see details about the placemark
3. On the placemark detail screen, you can change the placemark title, icon, enter a description, add photos, edit the location coordinate, and edit attribute schema.

Moving a Placemark on a Map:

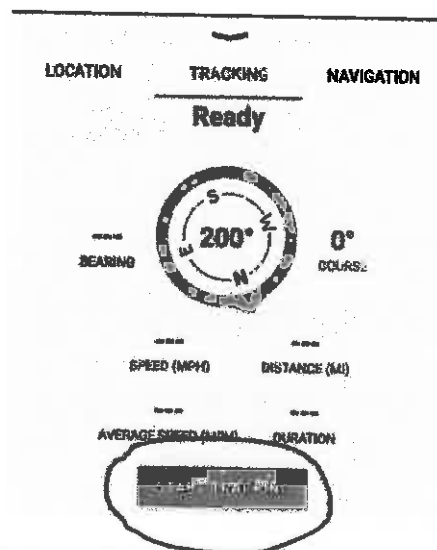
1. Tap and hold a placemark
2. Drag the placemark to another position and release

Recording a Track:

1. Tap Tools and select Record GPS Tracks



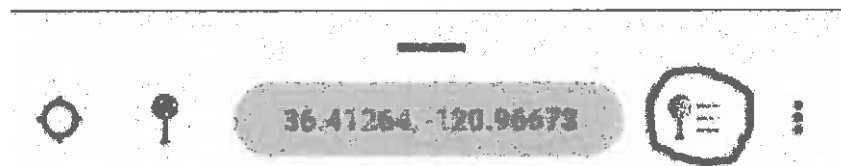
2. Select tracking (middle column).
3. Once a signal has been established ("Start" will be displayed for iOS, "Ready" will be displayed for Android), tap "Start" (iOS) or the Play icon (Android) to begin recording. Your tracks will continue recording, even if you minimize the app (set phone settings Avenza to always run GPS)



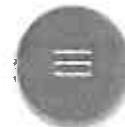
4. When you are done recording, tap 'Stop' (iOS) or "Done" (Android) and the track will be saved as a Map Feature.

Exporting Features:

1. Tap Map Features
 - a. Android devices - Tap on Menu, and select Export Map Features
 - b. iOS devices - Tap Export (bottom right button with up arrow).
2. Choose the desired export settings (e.g., Export to Others)
3. Select Export (all features). The features will be exported to the desired location



->



or

Edit



->

Export Layers



Import Layers



Email the .kml files to CalFireIMT4GIS@gmail.com

