PM: 35217268	Project Name: SH - BUCKS CREEK 1101 CB			
Notification: 120047659	Region: Northern	City: Rock Creek		
Project Manager:	Division: North Valley	County: Plumas		

Proposed Project Scope¹:

		De	sktop Meetin	g Results	ADE Fielding Results		
		Miles	Unit Cost (\$M)	Total Cost (\$M)	Miles	Unit Cost (\$M)	Total Cost (\$M)
Harden in Place (OH only)				\$ 0.02			\$ 0.00
Convert OH to UG				\$ 24.18			\$ 0.00
Relocation (OH to OH location)				\$ 0.00			\$ 0.00
Remove				\$ 0.00			\$ 0.00
	Add			\$ 0.00			\$ 0.00
Totals				\$ 24.20			\$ 0.00

1. This table is to be filled out by Project Manager detailing the change in units and costs before and after the Field Scoping Process is completed.

A) Field Scoping Team - Desktop Meeting Notes

The following are required outputs to be discussed in the meeting:

- Main Route(s) of Egress
- Land and Environmental Risk(s)
- Vegetation density and risk assessment
- Construction review (area(s) of concern)

Additional Option(s) or Comment(s):

BIO CONSTRAINTS

1. There is California red-legged frog and Foothill yellow-legged frog MRHCP modeled habitat within the project area, no constraints as long as species-specific AMMs are implemented. Could require work during the dry season (May 15 - Oct 15) and/or biomonitoring.

2. There are two spotted owl activity centers within the vicinity. They are outside of visual/auditory harassment zone. Potential Heli restrictions Feb 2- July 15

3. There are multiple water crossings. Potential Permitting*

CULTURAL CONSTRAINTS

Entire Project:

Project activities within the Caltrans ROW will require a Caltrans Encroachment Permit. Upon review by Caltrans, additional cultural resource protection measures may be required.

Native American consultation will be required and possible tribal monitoring/archaeological monitoring. Added cost and 30 Days to ERTC timeline.

Alternative 2:

The UG portion passes through an ESA and would require monitoring, testing, and/or mitigation. It is strongly recommended that this alternative be avoided.

EFS CONSTRAINTS

No Constraints

PSS REVIEW

Location, Fuel Types and Population Density:

Location, Fuel Types, and Population Density

- The Bucks Creek 1101 project is in Plumas County. The project originates near the community of Storrie and continues westerly along Highway 70 and the North Fork of the Feather River down to the Cresta Powerhouse.
- Fuel types are consistent with moderate to heavy brush and mixed conifer, however the general
 area has been heavily fire scared and the fire scar areas are intermixed with a significant amount of
 standing and down dead fuel.
- The community of Storrie is at the eastern end of the project has only a few residents. The Feather River Canyon area is sparsely populated. Larger communities exist much farther to the east in Quincy, Plumas County and west in Concow, Butte County.

Fire History:

- This area has significant fire history directly impacting the project area. A 20 year look back at area fire history includes, the 56,000 acre Storrie fire (2000), 8,000 acre Poe fire (2001), 1700 acre Highway 70 fire (2001), 50,000 acre Butte Lightning Complex (2008), Canyon Complex (2008), 30,000 acre Chips Fire (2012), 154,000 acre Camp fire (2018) and the 320,000 acre North Complex 2020 all burned within the Feather River Canyon.
- Not all the fires were directly in the project footprint area; however, they show that this area is
 prone to significant, large fire history due in large part to steep, rugged, inaccessible terrain and
 periods of strong wind.
- The Feather River drainage is prone to daily diurnal winds and strong north/Diablo wind events at various times of the year, but most notably during the fall period when fuels are at their driest. These conditions have resulted in the area being affected routinely by PSPS events and has also resulted in many large, devastating fires originating in the Feather River drainage.

Routes of travel for first responders and evacuees if a fire happens:

- This project crosses Highway 70 near the Bucks Creek Powerhouse and then parallels the highway
 for a roughly 2-mile stretch, and then runs along Storrie Rd. paralleling the Feather River on the
 canyon opposite side of Highway 70. Highway 70 is a main thoroughfare for ingress/egress for
 emergency responders and to the few residents who live in that direct area; it is also a major route
 for commerce both by vehicle and railroad.
- If Highway 70 was closed in this area it would make ingress and egress difficult if not impossible for responders and citizens; and, economically be a substantial hit to commerce. There are no alternative routes within the Feather River Canyon.

Attachments/Images:

A) Project Area – Google Earth Image with Circuit and HFTD Tier 2 &3 Overlay



B) Fire History – WIFire Map at <u>https://firemap.sdsc.edu/</u> to produce the fire history image.



ESTIMATING

Will need base map if OH or UG within Caltrans ROW If guard rail is installed, can we install within Caltrans ROW? Any exceptions?

***Review 4 Tx to determine if they can be relocated North of the bridge

Desk-Top Review Results

Purpose: This checklist is to be used to methodically analyze the project to determine final scope to eliminate/mitigate the fire risk to the maximum extent.

Overhead Line Elimination:

Yes \checkmark No \Box **DER alternatives to consider** (these location(s) to be sent to

Yes \Box No \checkmark Idle facilities to remove (These location(s) to be sent to

Yes I No ✓ Redundant ties to remove (These location(s) should be run through Distribution Reliability Planning)

SAP Equip. ID	SAP Equip. ID	OH Elimination Type	Additional Notes:
(Start)	(Finish)	(DER, Idle, Tie Rem.)	
100403879	100403879	DER	Relocating line to opposite side of river. RR Sighting Service – Possibly relocate to closer to our proposed lines. Check with for RR Contact
1******	1*******		
1******	1******		
1******	1******		
1******	1******		

Overhead to Underground Conversion:

Yes \checkmark No \Box Lines to be considered for UG (These location(s) to be sent to

SAP Equip. ID	SAP Equip. ID	<mark>Trench, Bore, or</mark>	Additional Notes:
(Start)	(Finish)	Plow-in	
100403915	100391300	Trench / Bore	1.83 miles - Riser up .12 miles south of SAP ID 100391300 before the bridge.
100391300	100391537	Trench / Bore	2.2 Miles – Determine if attach to bridge. Determine if 4 Tx are idle or in use. Cultural mitigation will be required.
1******	1******		
1******	1******		
1******	1******		
1******	1******		
1*******	1******		
1******	1******		
1******	1******		
1******	1******		
1******	1******		
1******	1******		
1******	1******		
1******	1******		

There are several factors that should be considered in identifying these potential overhead to underground conversions:

Is there a viable route available?

Is there a dedicated street/easement available?

What is the feasibility of new land rights?

What is the soil condition?

Are there a significant number of service drops, tap-lines, or other overhead equipment?

Relocation of Facilities:

Yes \Box No \checkmark Lines to be considered for relocation (These location(s) to be sent to

SAP Equip. ID	SAP Equip. ID	OH, Trench, Bore, or Plow-in	Additional Notes:
(Start)	(Finish)		
1******	1******		
1*******	1******		
1*******	1******		
1*******	1******		
1*******	1******		
1*******	1******		
1******	1******		
1*******	1******		

There are numerous other strategies that may be employed or prepared for in scoping a CWSP project. The following examples should be considered, and teams should be invited to participate:

- Rapid Earth Fault Current-Limiter (REFCL) This system can detect phase-to-earth faults. They then cancel the
 voltage on the fault within milliseconds of detecting it and limit the voltage of the fault to below the point where
 it can start a fire. This is only applicable on 3 wire systems and it requires significant modifications to the
 circuits.
 - o Yes □ No ✓ Circuit being considered for REFCL? (Please include
 - If Yes, then System Automation will need to provide Planning support in adjusting necessary scope to support a future REFCL protection scheme.
- Resiliency Zones (RZ)- These are areas deemed critical in nature to support life and health in an area during significant outages and PSPS events. If in Tier 2/3 areas, underground is required. This needs to be considered when designing these zones.
 - o Yes □ No ✓ Circuit being considered for an RZ? (Please include
 - If Yes, additional UG and SCADA equipment may be required to support. Microgrid Strategy Implementation will need to provide Planning support in adjusting necessary scope to allow for future RZ's in the area.

Post Field Check Results

The following section will allow for brief notes from the field inspection and/or engineering analysis conducted to determine final scope recommendations.

Overhead Line Elimination:

Copy each location from the Desk-top review notes from the Overhead line Elimination recommendations and provide an affirmative response to each proposed location. The notes should be clear as to the post-field check recommended actions so that Distribution Planning can update the scoping documents.

SAP Equip.	SAP Equip.	OH Elimination Type	OK to	Field or Engineering Notes*
ID (Start)	ID (Finish)	(DER, Idle, Tie Rem.)	Proceed	
			(Y,N, N/A)	
1*******	1*******		N/A	
1*******	1*******		N/A	
1*******	1*******		N/A	
1*******	1*******		N/A	
1*******	1*******		N/A	

*Please begin notes with LAN-ID of Estimator or Engineer who completed in analysis

Overhead to Underground Conversion:

Copy each location from the Desk-top review notes from the Overhead to Underground Conversion recommendations and provide an affirmative response to each proposed location. The notes should be clear as to the post-field check recommended actions so that Distribution Planning can update the scoping documents. Also, clear note the recommended Underground construction method Trench, Bore, or Plow-in.

SAP Equip.	SAP Equip.	Trench, Bore, or	OK to	Field Notes*
ID (Start)	ID (Finish)	Plow-in	Proceed	
			(Y,N, N/A)	
1*******	1******		N/A	
1*******	1*******		N/A	
1*******	1******		N/A	
1*******	1*******		N/A	
1*******	1******		N/A	
1*******	1******		N/A	
1******	1******		N/A	
1*******	1******		N/A	
1*******	1******		N/A	
1*******	1******		N/A	
1*******	1******		N/A	
1*******	1*******		N/A	
1*******	1******		N/A	
1*******	1******		N/A	
1*******	1******		N/A	
1*******	1******		N/A	

*Please begin notes with LAN-ID of Estimator or Engineer who completed in analysis

Relocation of Facilities:

Copy each location from the Desk-top review notes from the Relocation of Facilities recommendations and provide an affirmative response to each proposed location. The notes should be clear as to the post-field check recommended actions so that Distribution Planning can update the scoping documents.

SAP Equip.	SAP Equip.	OH, Trench, Bore, Plow-in	OK to Proceed	Field or Engineering Notes*
ID (Start)	ID (Finish)		<mark>(Y,N, N/A)</mark>	
1******	1******		N/A	
1*******	1*******		N/A	
1*******	1******		N/A	
*Dianan hanin		ID of Estimator or Engineer	المعقما مصبحا مقاما	a successorie

*Please begin notes with LAN-ID of Estimator or Engineer who completed in analysis

Additional Notes and attachment descriptions:

Approval(s):

Project Manager -	Project Manager	Date:
Estimating -	Manager, Internal Estimating & Design	Date: EDRS
Asset Strategy -	, Manager, Grid Design	Date: EDRS