

Tumbling Rock Cave Preserve
Topless Dome Complex (Phase 1)
Permanent Fixed Rigging Management Plan
Prepared for the Southeastern Cave Conservancy, Inc.

Version 1.1

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Feb 2022

Background and Scope

This is a brief overview of the lower portion of the Topless Dome Complex exploration project, led by Rachel Saker. Further content will be added in the near future.

The route makes a circuit from the mouth of the Great Hall of Mysteries into the Topless Dome. The route travels upward into an adjacent space that was previously accessed (at its floor-level) in the 1960s and named the Forbidden Passage. The primary feature of the Forbidden Passage is a ~110-ft dome, named Coffee Date Dome. The top of CDD is the second major fixed rope: ~102-ft, free-hanging. At the top of the CDD, an adjacent (virgin) dome/pit complex was reached via a short climb-up followed by a keyhole-- The Pandemic Connection. There are only two short sections of rigging remaining in the PC; all exploratory climbs resulted in dead-ends and were derigged. The first section of rigging is a safety (clip-in) line that leads into a ~20-ft nuisance drop. Upon reaching the floor of the nuisance drop, a second safety (clip-in) line is encountered. The traverse skirts the edge of an "at least 60-ft pit" that drops back down into the Forbidden Passage. *Note: the route back down to the Forbidden Passage is not bolted nor rigged, but it can be rigged from naturals if a party wishes to bounce it.* There is a short climb-down at the end of the traverse line. Upon leaving the traverse, a large window into the Topless Dome is encountered: Disillusion Window

There is no rappelling rope installed out of Disillusion Window (aka "Rachel's window" ... as opposed to "Don and Cheryl's windows") as visitors will be required to bring their own if they wish to bounce or through-trip the project. Disillusion Window has a traverse line and bolted to allow visitors to pull-down the ~170-ft drop to the floor of Topless Dome if they wish to do a "through trip." In the Phase 2 expansion, this traverse will be extended significantly along the righthand ledge of Topless to access a (currently stage derigged) rebelay that leads to the upper half of the dome complex.

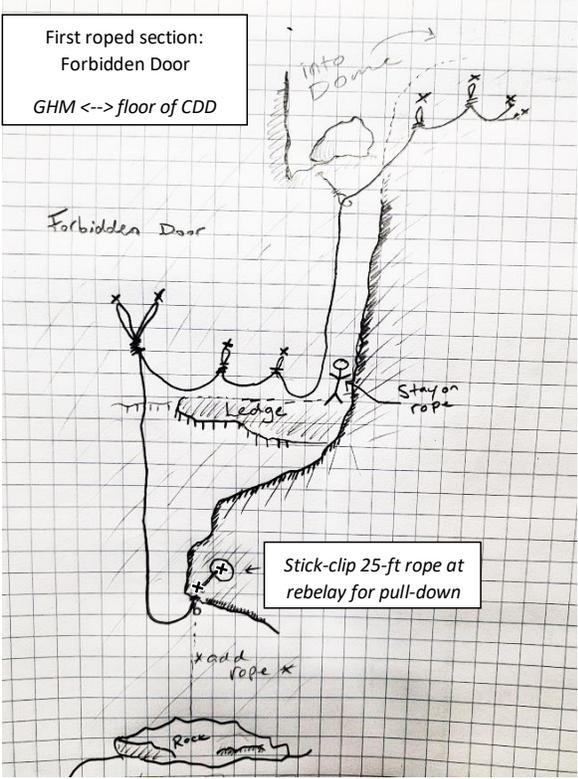
Photos of each set of bolts, etc. will be added in a future Rev of this document

Inspection Schedule:

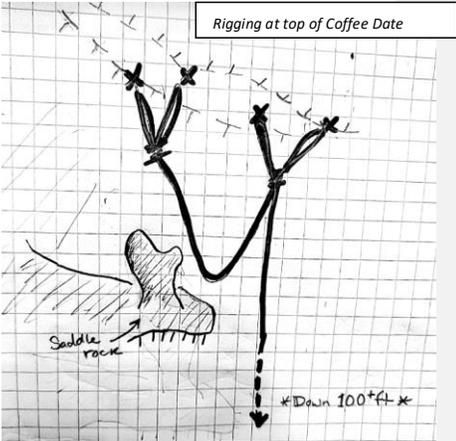
For the "soft opening" of the project (first 6 months), the ropes will be inspected at least once every two months. After the first six months have passed, inspections will be conducted every six months (unless evaluation warrants more frequent inspection) thus coinciding with the opening of the upper extension and a major update to the PFRMP.

Commented [RS1]: The landmarks of the Forbidden Passage are... The Forbidden Door, Coffee Date Dome, and the Forbidden Passage Corridor (which is also the bottom-level of a pit that drops in from the Pandemic Connection). Bear with the naming conventions—the historic names were recovered mid-project upon the publishing of Jim Johnston's trip reports in a memoir book.

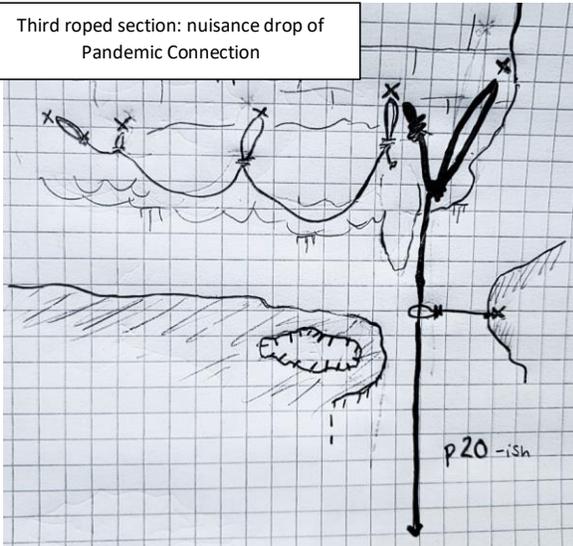
First roped section:
Forbidden Door
GHM <--> floor of CDD



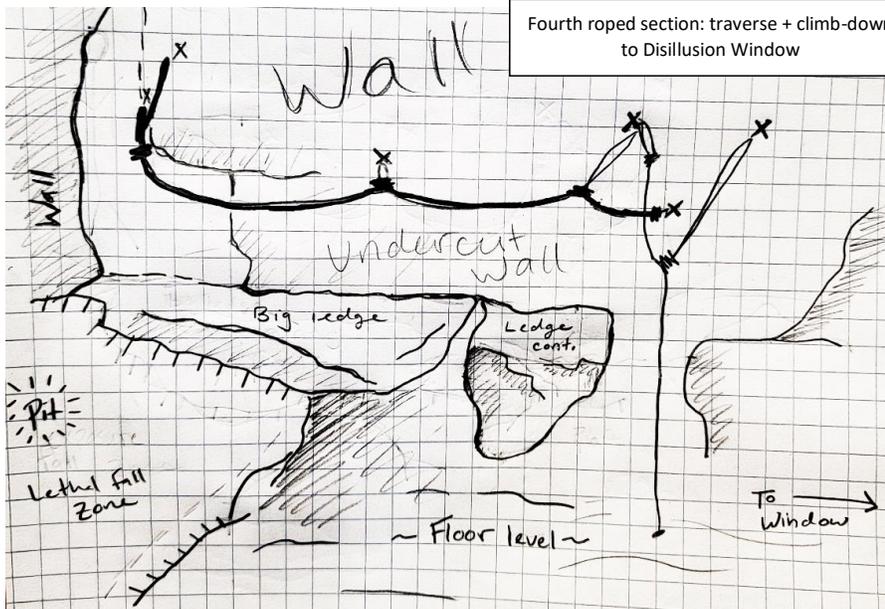
Second roped section:
Coffee Date (100ish-ft)
Floor <--> ceiling of CDD

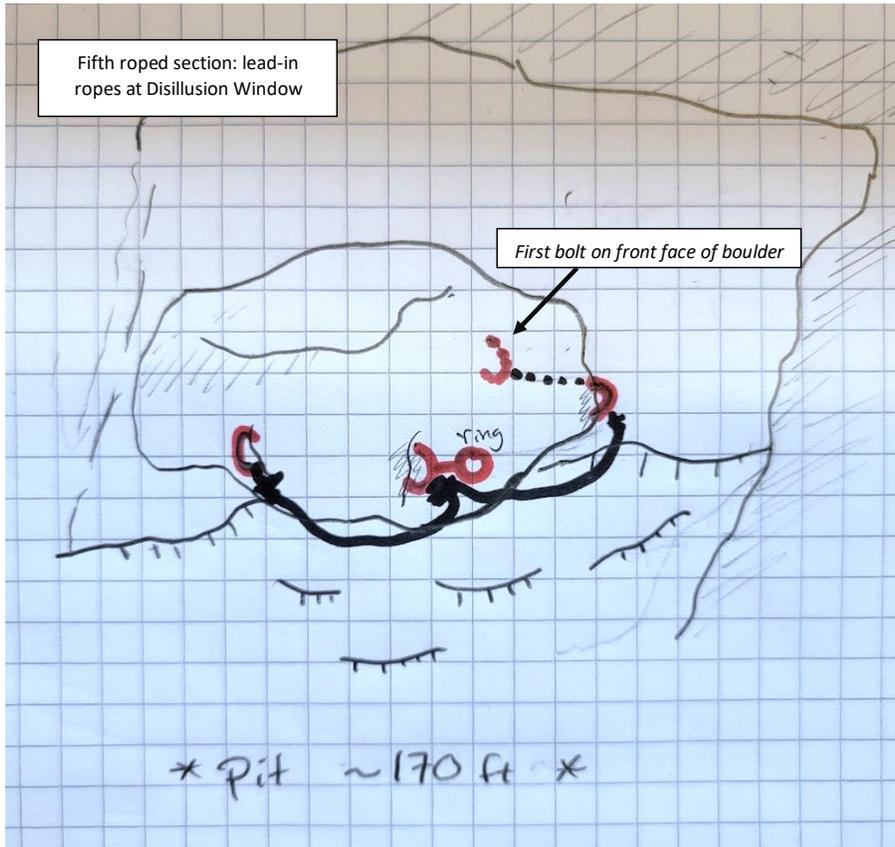


Third roped section: nuisance drop of Pandemic Connection



Fourth roped section: traverse + climb-down to Disillusion Window





Link to spreadsheet of hardware, ropes, etc:

https://docs.google.com/spreadsheets/d/1KGcxTKOGYSo7KVUk8t5PsJeeQuOUF3sRnWmPi_teb9Q/edit?usp=sharing

Great Hall of Mysteries Floor
Coffee Date Dome

ALL HARDWARE STAINLESS STEEL (including redirects)
ALL CONNECTORS QUICKLINKS (6 or 8mm long jaw)
ALL BOLTS (wedge, glue-in) >3.25" LONG

Great Hall floor <-> Coffee Date floor

Rope	Condition at install	Date of install	Rope Length	Pitch height	
11mm Concord Greenline	New	Fall 2021	***	~70-ft	
Anchor#	Hardware	Size	Glue (if applicable)	Knot	Comment
Pull-down ring	Fixe rappel ring	1/2"	-	-	For removable rope
FD-W1	Wedge bolt	3/8" or 10mm	-	8 on a bite	
FD-W2	Wedge bolt	10mm	-	N/A	Backup for pull-down anchor
FD-G1	Glue-in (Raumer)	12mm	Epoxy (Hilti V3 Red)	Fusion	
FD-G2	Glue-in (Raumer)	12mm	Epoxy (Hilti V3 Red)	Fusion	
FD-G3	Glue-in (Raumer)	10mm	Epoxy (Hilti V3 Red)	Butterfly	
FD-G4	Glue-in (Raumer)	8mm	Epoxy (Hilti V3 Red)	Butterfly	
Redirect	Captive-eye carabiner	N/A	-	Poacher knot	Natural rigging, 9mm PMI MaxWear tether
FD-G5	Glue-in (Raumer)	10mm	Epoxy (Hilti V3 Red)	Butterfly	
FD-W3	Wedge bolt	3/8" or 10mm	-	Butterfly	Horizontal hanger
FD-W4	Wedge bolt	3/8" or 10mm	-	Butterfly	
FD-G6	Glue-in (Raumer)	8mm	Epoxy (Hilti V3 Red)	8 on a bite	Hard-tied

Coffee Date floor <-> Coffee Date attic

Rope	Condition at install	Date of install	Rope Length	Pitch height	
11mm Concord Greenline	New	Fall 2021	***	~102-ft	
Anchor#	Hardware	Size	Glue (if applicable)	Knot	Comment
CD-G1	Glue-in (Raumer)	12mm	Epoxy (Hilti V3 Red)	Fusion	Rebelay anchor
CD-G2	Glue-in (Raumer)	12mm	Epoxy (Hilti V3 Red)	Fusion	Rebelay anchor
CD-G3	Glue-in (Raumer)	10mm	Epoxy (Hilti V3 Red)	Fusion	Pitch head
CD-G4	Glue-in (Raumer)	10mm	Epoxy (Hilti V3 Red)	Fusion	Pitch head

	B	C	D	E	F	G	H	I
Pandemic Connection nuisance drop								
Rope	Condition at install	Date of install	Rope Length	Pitch height				
11mm PMI MaxWear	Used (>5yrs)	Fall 2021	***	~20-ft				
Anchor#	Hardware	Size	Glue (if applicable)	Knot	Comment			
PC-W1	Wedge bolt	10mm	-	8 on a bite				
PC-W2	Wedge bolt	10mm	-	Butterfly				
PC-G1	Glue-in (Raumer)	8mm	Epoxy (Hilti V3 Red)	Butterfly				
PC-W3	Wedge bolt	10mm	-	8 on a bite, Fusion	Shared by pitch head and lead-in line			
PC-W4	Wedge bolt	10mm	-	Fusion				
PC-W5	Wedge bolt	10mm	-	-	Redirect anchor			
Redirect	Captive-eye carabiner	-	-	Poacher, 8 on a bite	Dyneema cord tether			
Pandemic Connection traverse + climb down								
Rope	Condition at install	Date of install	Rope Length	Pitch height				
11mm PMI MaxWear	Used (>5yrs)	Fall 2021	***	N/A				
Anchor#	Hardware	Size	Glue (if applicable)	Knot	Comment			
PC-W6	Wedge bolt	10mm	-	8 on a bite				
PC-W7	Wedge bolt	10mm	-	Butterfly				
PC-W8	Wedge bolt	10mm	-	Butterfly				
PC-W9	Wedge bolt	10mm	-	Butterfly	Shared by traverse and climb-down			
Anchor link	Chainlink	-	-	8 on a bite	Helps rigging articulate			
PC-G2	Glue-in (Raumer)	8mm	Epoxy (Hilti V3 Red)	8 on a bite	Hard-tied			
PC-W10	Wedge bolt	10mm	-	Butterfly				

Disillusion Window (into Topless Dome)

Rope	Rope Length	Pitch height	Comment		
11mm PMI MaxWear	25-ft	N/A	Lead-in rope		
None	200-ft	~160-ft	No rappel rope installed		
Anchor#	Hardware	Size	Glue (if applicable)	Knot	Comment
DW-G1	Glue-in (Raumer)	8mm	Epoxy (Hilti V3 Red)	8 on a bite	
DW-G2	Glue-in (Raumer)	10mm	Epoxy (Hilti V3 Red)	Butterfly	
DW-G3	Glue-in (Raumer)	10mm	Epoxy (Hilti V3 Red)	Butterfly	
DW-G4	Glue-in (Raumer)	10mm	Epoxy (Hilti V3 Red)	8 on a bite	
Pull-down ring	Fixe rappel ring	1/2"	-	-	Attached with dedicated quicklink