

CASTLEGUARD CAVE

BANFF NATIONAL PARK, ALBERTA, CANADA
FIELD MAPS /NAVIGABLE PDF Version 1 2006

INSTRUMENTS AND TAPE SURVEY, 1970-2005
LENGTH: 20,357 METRES DEPTH: 384 METRES



SURVEYORS 1968-2005

Troy Arnold, Bali Ballmann, Peggy Beninger, Rick Blak, Bill Boley, Marcus Buck, Richard Comtois, Julian Coward, Dave Crann, Phil Deacon, Sean Doherty, John Donovan, Rick Doyle, Ian Drummond, Gary Dunkley, Kevin Ecock, Gavin Elsley, Mike Evans, John Fish, Derek Ford, Linda Gough, Mike Goodchild, Dan Green, Steve Grundy, Greg Horne, John Kaandorp, Thor Martin Klepaker, Steve Knutson, Ron Lacelle, Barry Lewis, Bill MacDonald, Ian McKenzie, Jim McPhail, Tom Miller, Richard Mossop, Johnny Mühlestein, Jane Mulkewich, Ian Phillips, Jon Piguët, Gary Pilkington, Guy Poulton, Chris Pugsley, Toni Pulfer, Jean Roberge, Christian Rushfeldt, Jon Rollins, Kirk Safford, David Sawatsky, Pete Smart, Randy Spahl, Don Staniford, Peter Thompson, Marek Vokáč, Eric von Vorkampff, Leesa Walker, Olivia Whitwell, Andres Wildberger, Mark Wilson, Steve Worthington, Chas Yonge, McMaster University Karst Research Group

SURVEY ACCURACY

Survey method: hand-held instruments and fibreglass tape measure. Compass and clinometer readings to the nearest degree. Some earlier surveys measured distances to nearest decimetre; current standards measure to nearest centimetre. A large survey error exists within the Munchkin Peon Trail; the loop was not artificially closed for this map. Declination has been adjusted using the International Geomagnetic Reference Field. Two provisional survey shots (PROV#) were generated to correct hanging surveys.

DIGITAL MAP

A joint project between Parks Canada and the Alberta Speleological Society /produced by Dan Green

TECHNICAL ASSISTANCE: Aaron Addison, Tyson Haverkort, Dan Pach, Craig Wagnell
DATA REVIEW, EDIT: Steve Worthington, Ian McKenzie
PENCIL SKETCH: Taco van Ieperen /compilation of data and sketches 1970-1988
Chas Yonge 1999, Ron Lacelle 2002, Dan Green /Greg Horne /Marek Vokáč: 2005
DIGITAL MAP: Dan Green 1970-2005 compilation and updates
Greg Horne 2005 updates
Adobe Illustrator 10 /survey data compiled in Walls V2/B7
ARTWORK UPDATED: December 2006
NAVIGABLE PDF: Adobe Acrobat 6.0 /line plot and station layers hidden in this version



[GO TO MAPSHEET INDEX](#)

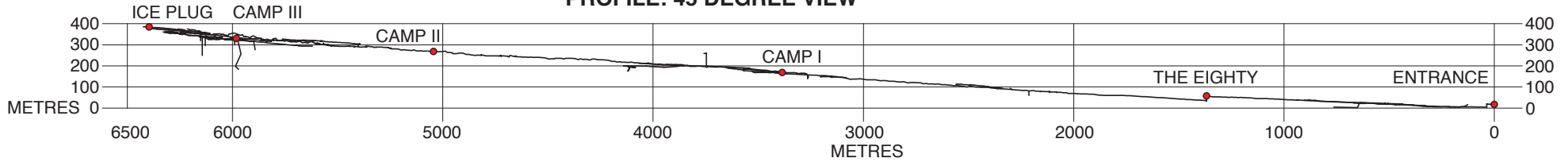


[GO TO ENTRANCE](#)





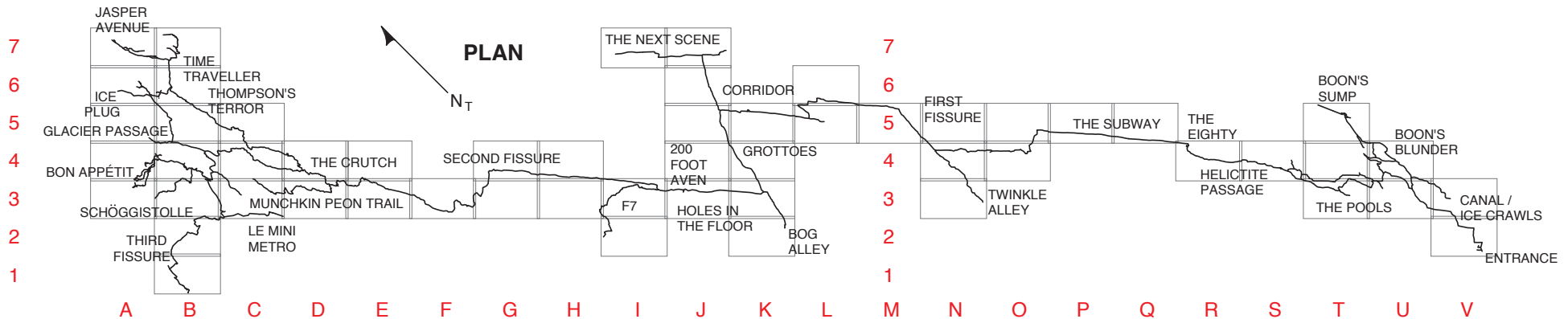
PROFILE: 45 DEGREE VIEW



INDEX

| | | | | | | | | | |
|----|---------------------|----|---------------------|----|---------------------------|----|--------------------|----|-----------------------|
| A3 | DESSERT GLACÉ | B7 | SUPPLIES PASSAGE | H3 | F7 MIDDLE | K3 | HOLES-IN-THE-FLOOR | P5 | FIRST FISSURE (start) |
| A4 | BON APPÉTIT | C3 | LE MINI METRO | H4 | SECOND FISSURE | K4 | THE GROTTOS | Q5 | THE SUBWAY |
| A5 | GLACIER FORK | C4 | BOON'S AVEN | I2 | F7 END | K5 | THE CORRIDOR | R4 | THE EIGHTY |
| A6 | THE ICE PLUG | C5 | THOMPSON'S TERROR | I3 | F7 | L5 | CORRIDOR SUMP | S4 | HELICTITE PASSAGE |
| A7 | JASPER AVENUE | D3 | MUNCHKIN PEON TRAIL | I7 | THE NEXT SCENE (West) | L6 | FIRST FISSURE | T3 | THE POOLS |
| B1 | CRAWL ONTARIO | D4 | THE CRUTCH | J3 | 200 FOOT AVEN | M5 | MOVIE POT | T4 | PARALLEL PASSAGE |
| B2 | GALERIE DE LA BRISÉ | E3 | CAMP II | J4 | THE GROTTOS (North) | N3 | TWINKLE ALLEY | T5 | BOON'S SUMP |
| B3 | SCHÖGGISTOLLE | E4 | CUBIC PEARLS | J5 | THE NEXT SCENE (Junction) | N4 | WATERFALL ROOM | U3 | BLUNDER JUNCTION |
| B4 | SCORE CANYON | F3 | THE BIG ROOM | J6 | THE NEXT SCENE (South) | N5 | MINI HOLES | U4 | BOON'S BLUNDER |
| B5 | GLACIER PASSAGE | G3 | MUD BANK PASSAGE | J7 | THE NEXT SCENE (East) | O4 | PALEO POT | V2 | ENTRANCE |
| B6 | TIME TRAVELLER | G4 | SLICKENSLIDES | K2 | BOG ALLEY | O5 | EASY STREET | V3 | CANAL / ICE CRAWLS |


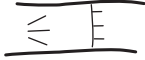

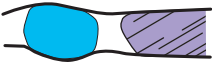







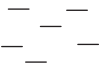

PLAN



SURVEY CHRONOLOGY

| | | | |
|------|---|------|--|
| 1968 | 200 Foot Aven to Entrance | 1984 | Resurvey: Entrance to Boon's Aven; |
| 1970 | Thompson's Terror; Boon's Aven to 200 Foot Aven | 1984 | New Survey: Munchkin Peon Trail; Tight Rifts; Supplies Passage; Schöggistolle |
| 1973 | Glacier Passage (Ice Plug to Boon's Aven) | 1985 | F7; Forest Spring Crawl |
| 1974 | Parallel Passage; Next Scene; Bog Alley | 1987 | Boon's Sump; Dessert Glacé; Forest Spring Crawl extension; Boon's Blunder passages |
| 1979 | Boulevard du Québec; Galerie de la Brisé; Mini Metro | 1988 | Score Canyon; Pools side passages and bypass to The Eighty |
| 1980 | La Grande Gueule; La Trappe; Crawl Ontario; Munchkin Peon Trail | 1999 | Pools side passages and Entrance side passage |
| 1983 | Bon Appétit; Time Traveller to Ice Plug | 2002 | REMAP: Thompson's Terror |
| | | 2005 | Parallel Universe; 200 Foot Aven |
| | | 2005 | Remap: The Next Scene; Grottoes; Holes-In-The-Floor; F7 |

LEGEND

| | | | |
|---------------------------------|---|--------------------------|---|
| unmapped lead ; too tight |  | floor slope ; floor drop |  |
| unsurveyed passage |  | pool ; seasonal ice |  |
| flowstone on wall ; soda straws |  | glacial ice |  |
| aven / ceiling change |  | water ; sump |  |
| sand, rocks, breakdown |  | water direction / inlet |  |
| bedrock |  | pitch, climb, handline | P24 2C 5HL |
| mud |  | navigable link |  |

GO TO MAPSHEET INDEX 

A4

ice
plugs

tight

ice
plug

ice
plug

Dessert Glacé

HEADWARD COMPLEX

drafting
boulder
choke

B3

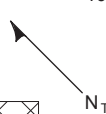
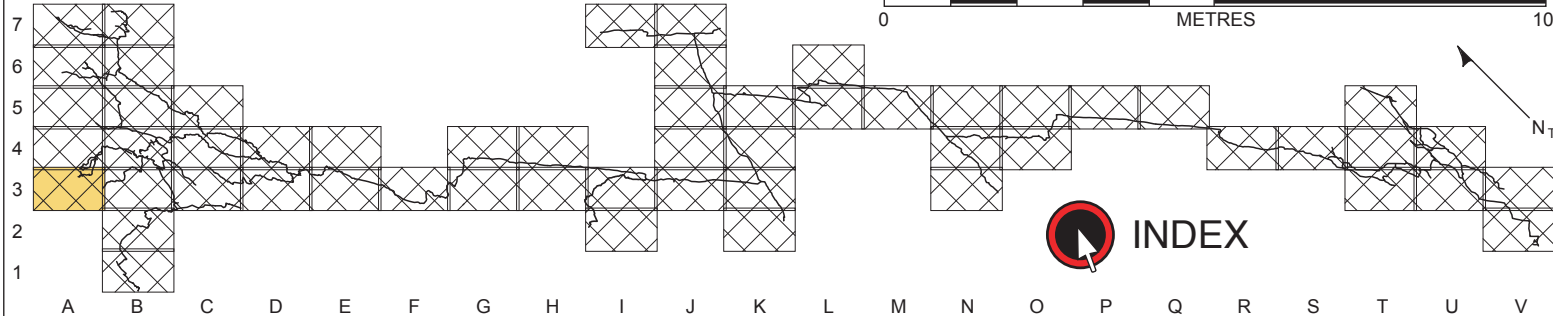
0 METRES 100

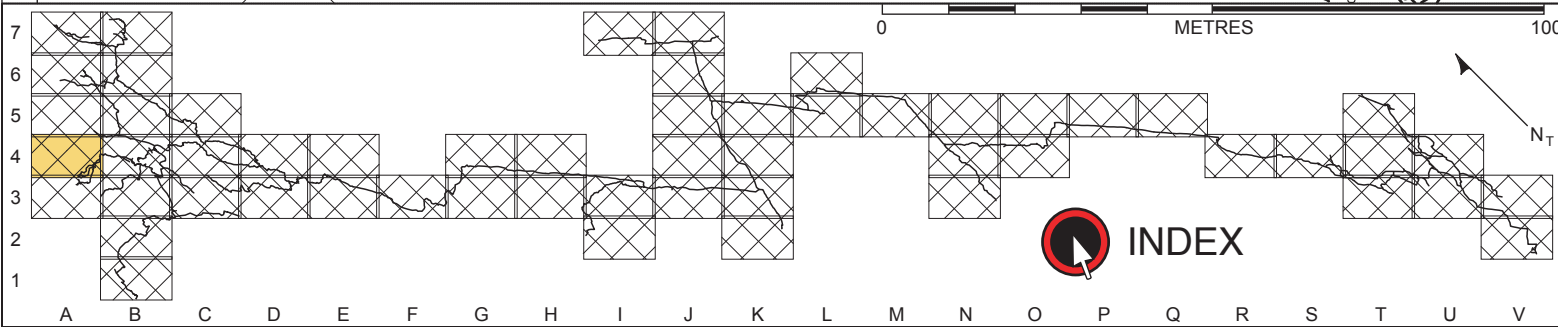
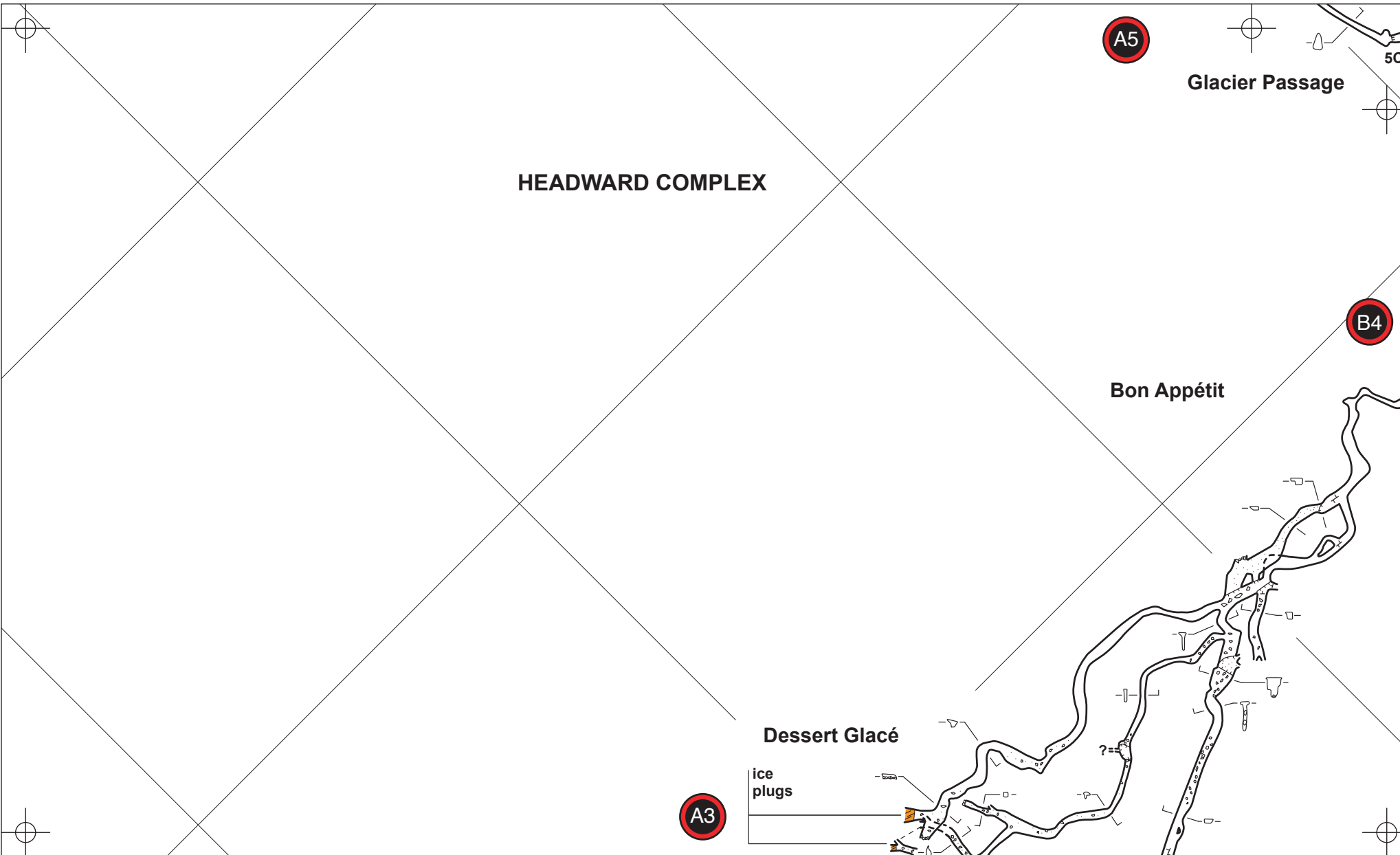
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

DESSERT GLACÉ
Updated: 11/04

INDEX

A3



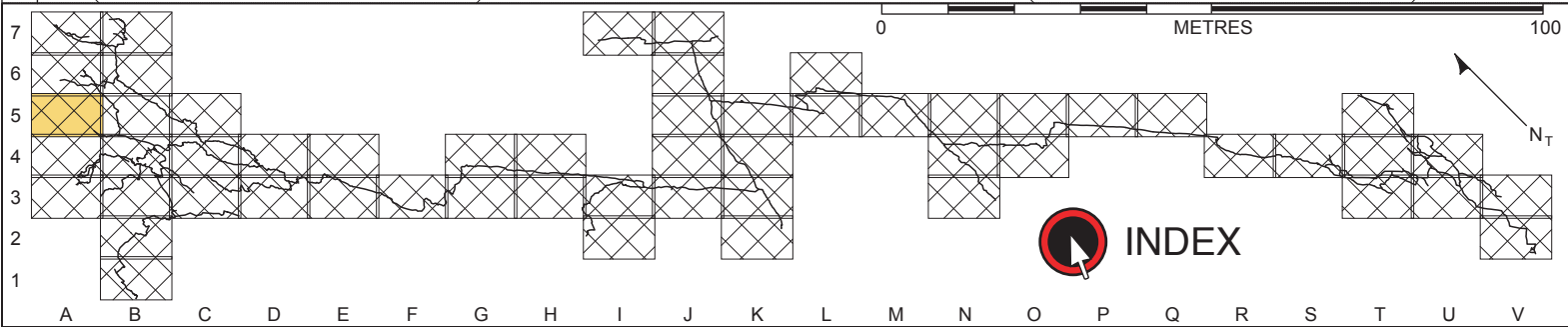
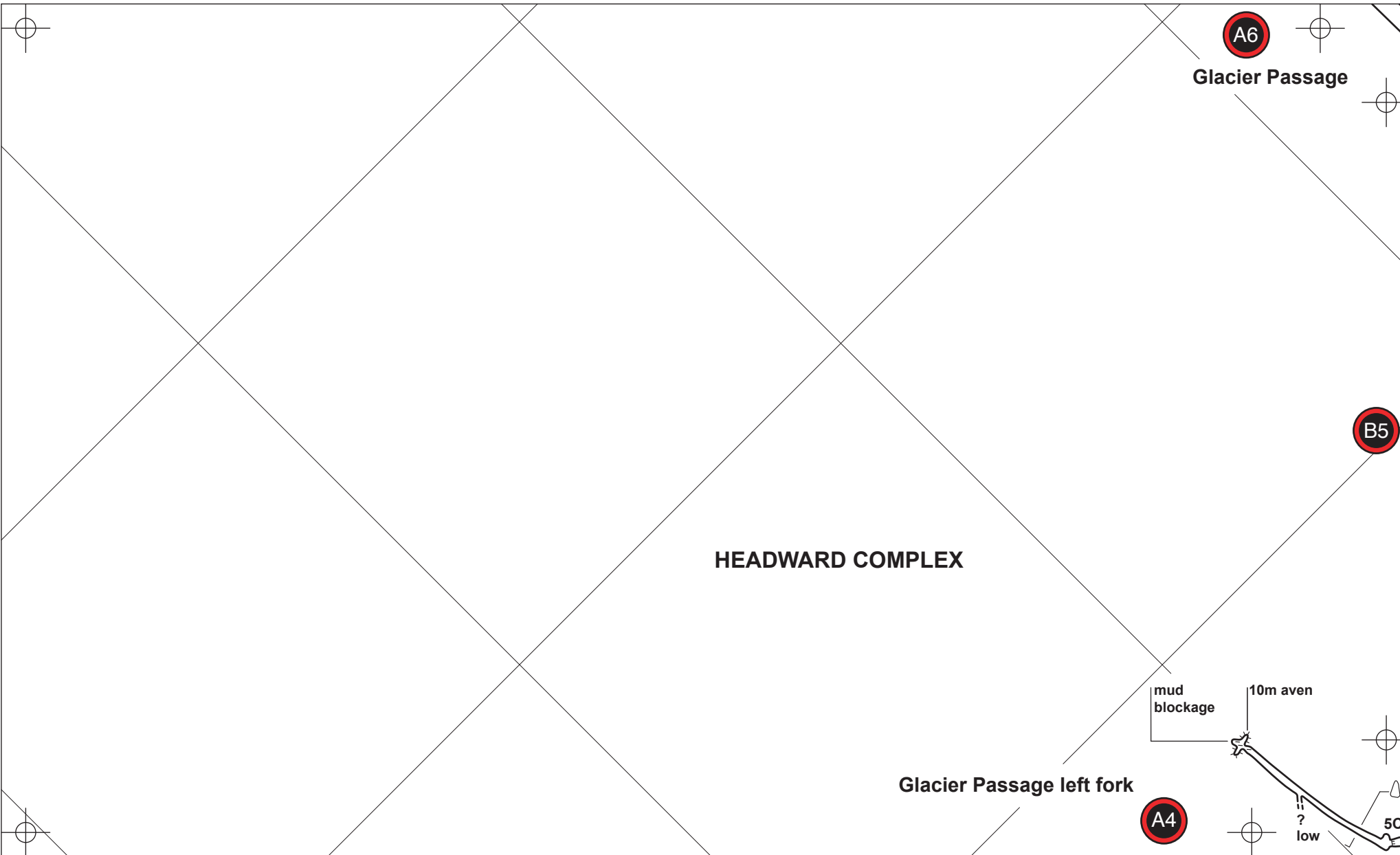


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

INDEX

BON APPÉTIT
 Updated: 11/04

A4



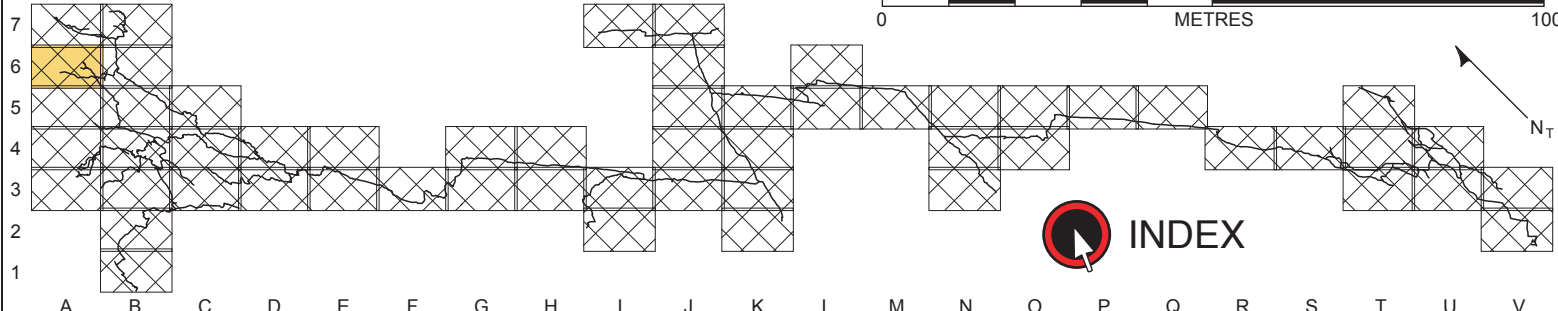
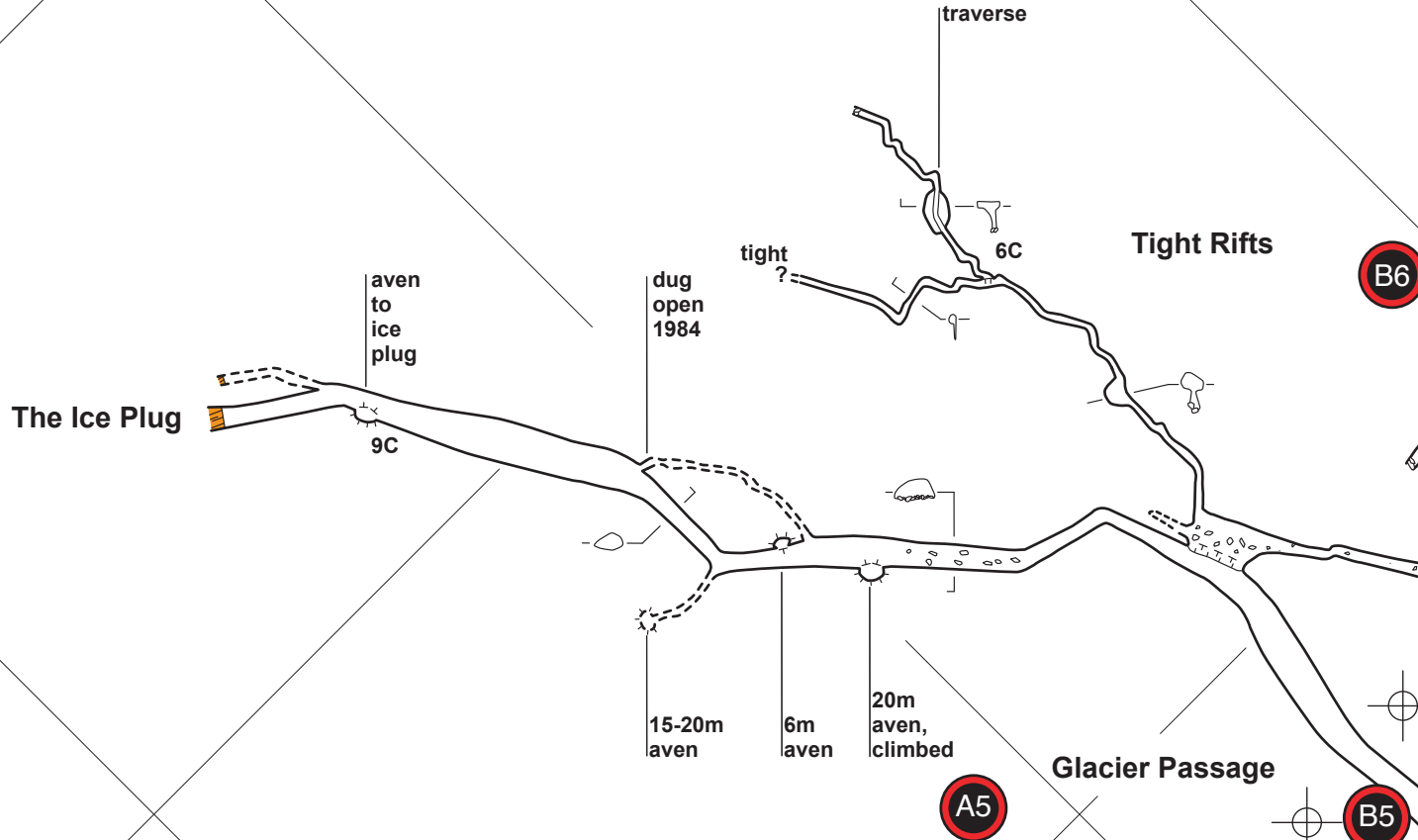
CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

GLACIER FORK
 Updated: 10/04

A5

INDEX

HEADWARD COMPLEX



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

THE ICE PLUG
Updated: 11/04

A6

nIce Plug

HEADWARD COMPLEX

Jasper Avenue

B7

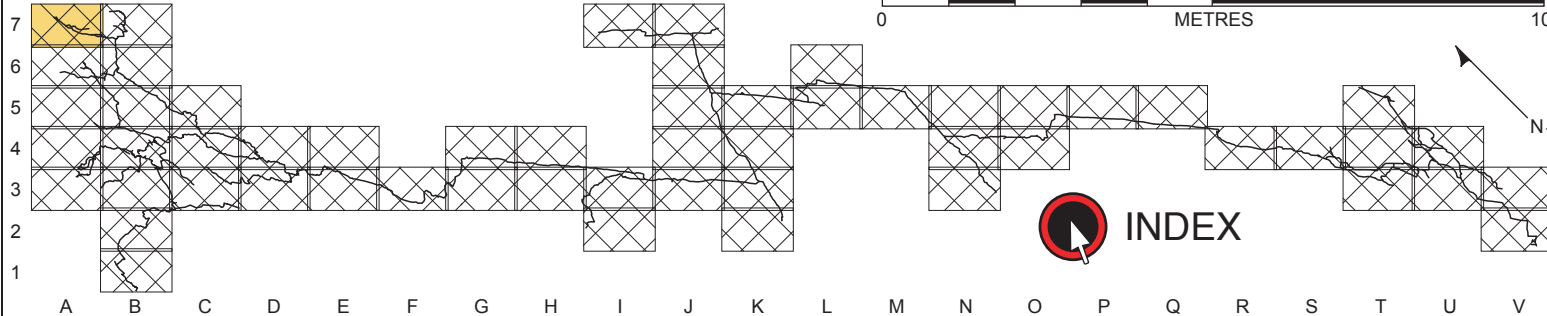
0 METRES 100

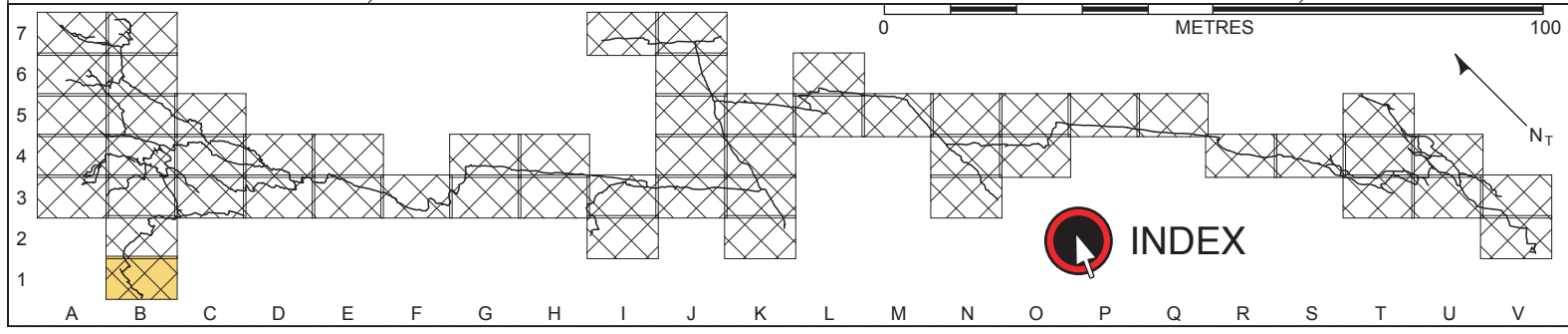
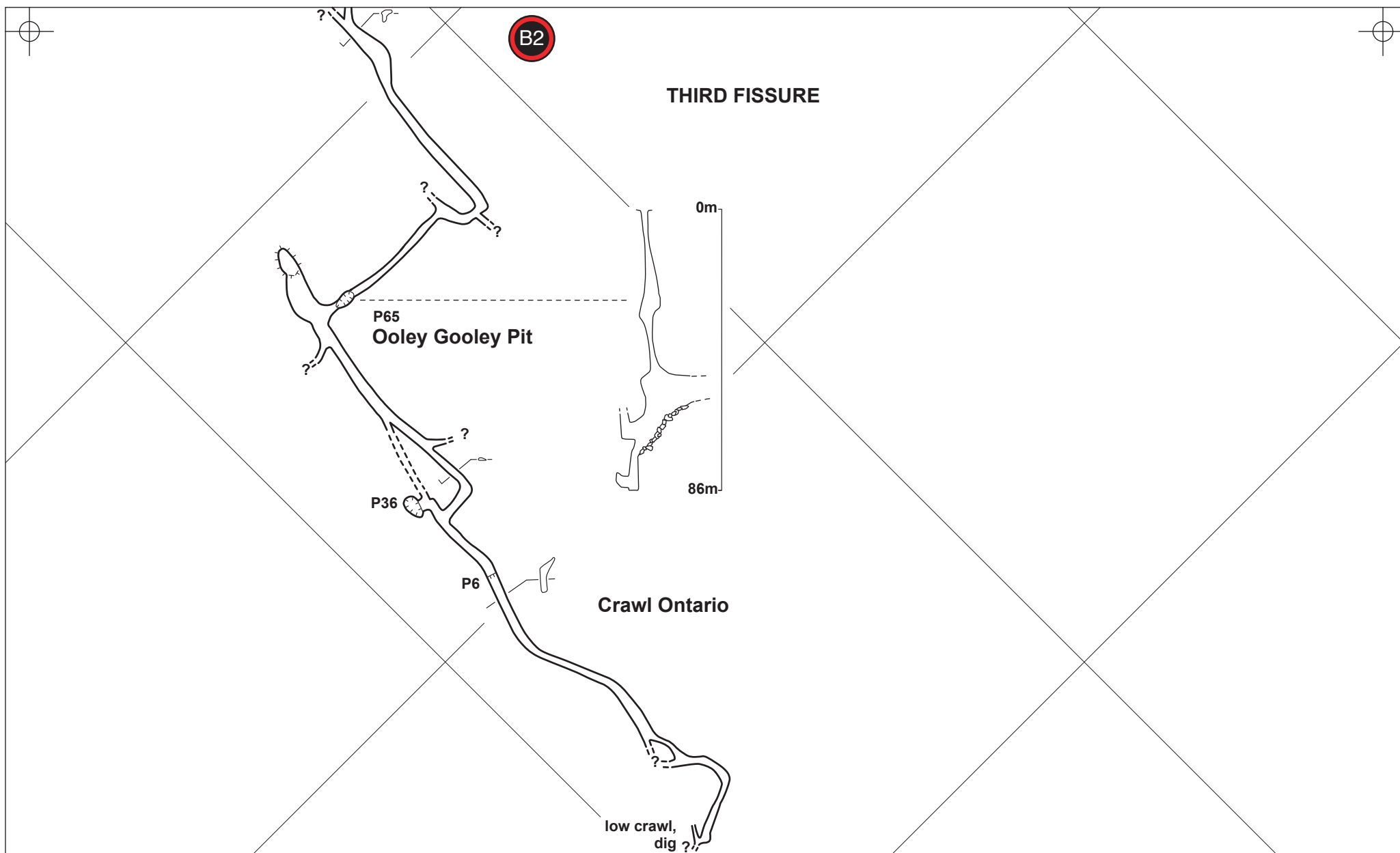
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

JASPER AVENUE
Updated: 11/04

INDEX

A7

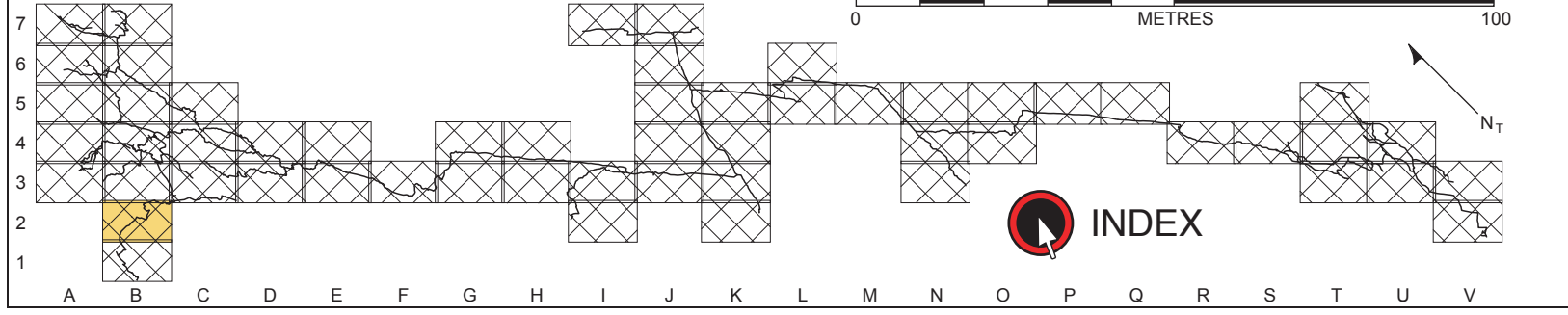
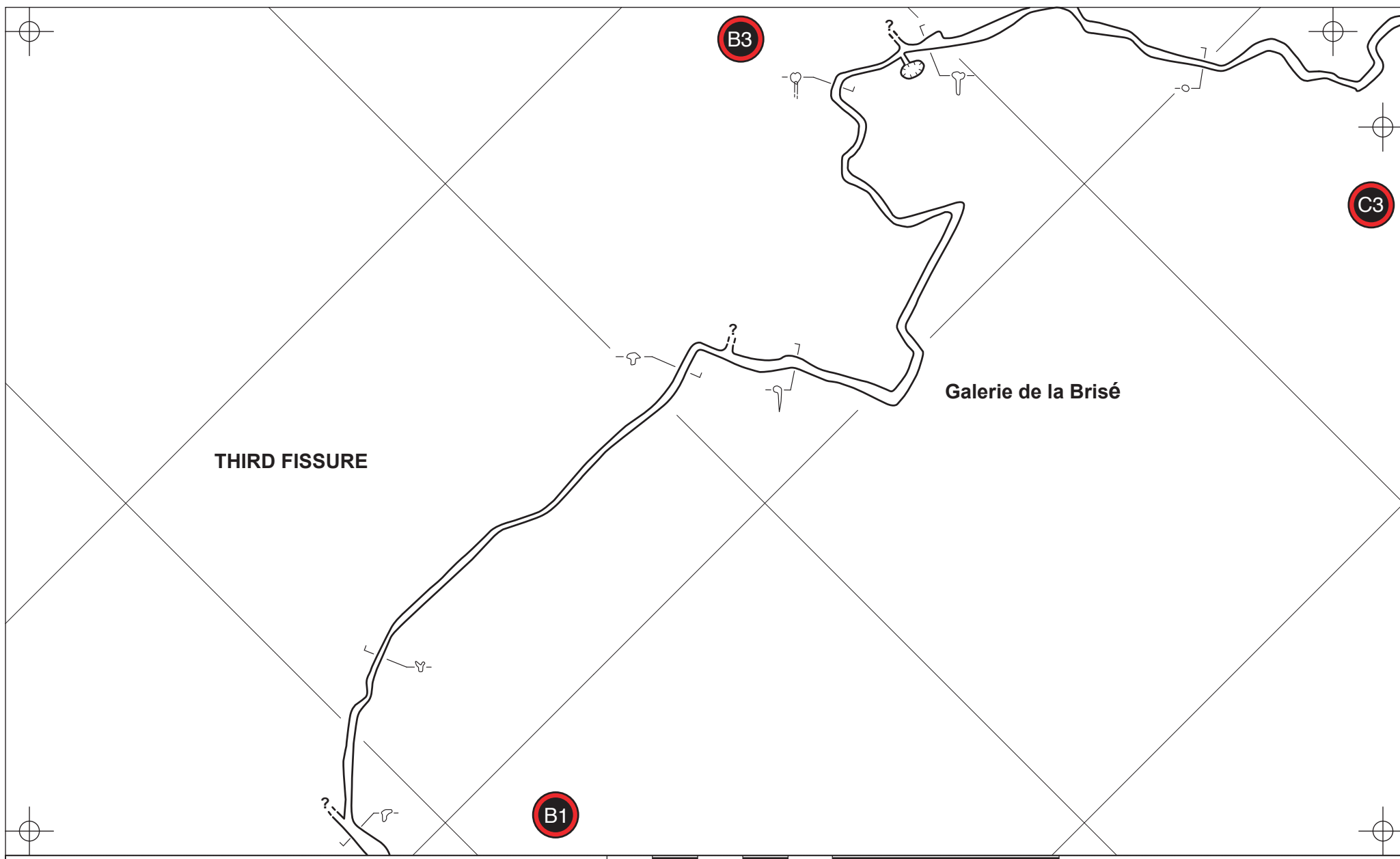




CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

CRAWL ONTARIO
 Updated: 10/04

B1



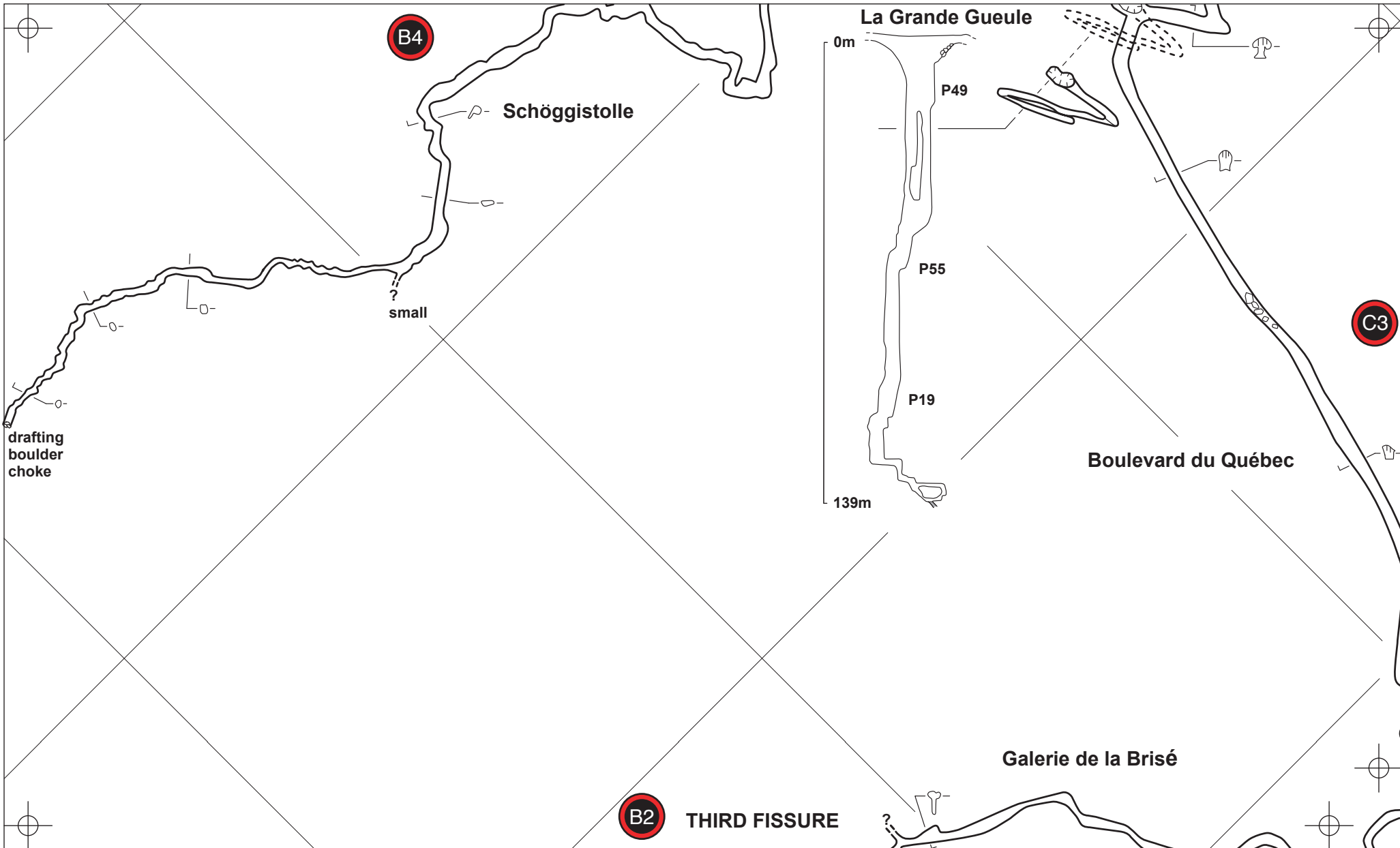
0 METRES 100

CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

GALERIE DE LA BRISÉ
 Updated: 10/04



B2



B4

Schöggistolle

La Grande Gueule

P49

P55

P19

small

drafting
boulder
choke

Boulevard du Québec

C3

Galerie de la Brisé

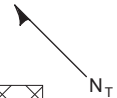
B2

THIRD FISSURE

0 METRES 100

CASTLEGUARD CAVE

Banff National Park, Alberta
Grid Interval: 100m



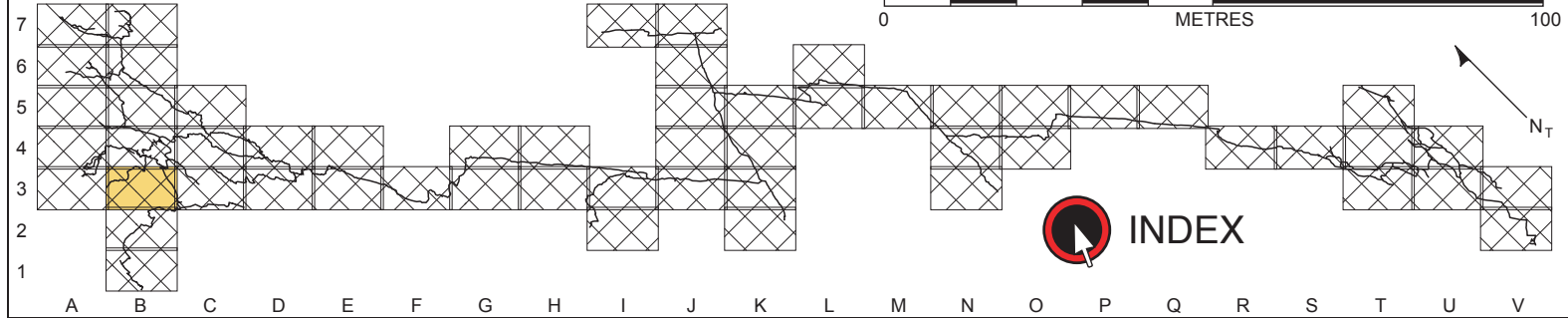
SCHÖGGISTOLLE

Updated: 10/04



INDEX

B3



A B C D E F G H I J K L M N O P Q R S T U V

1

2

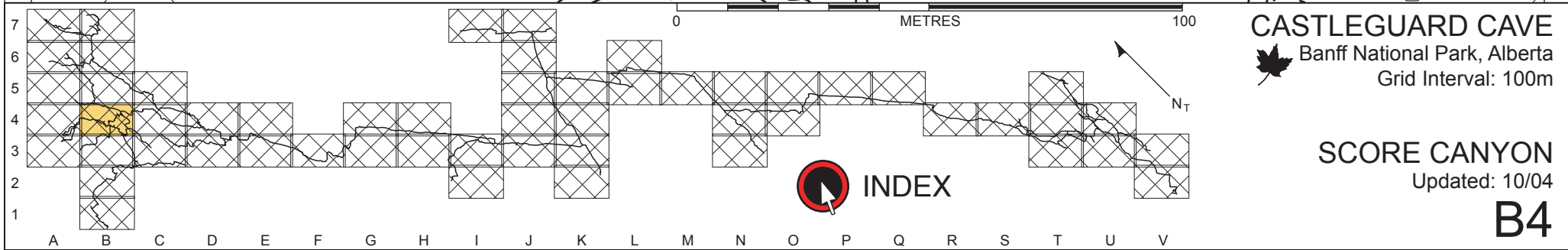
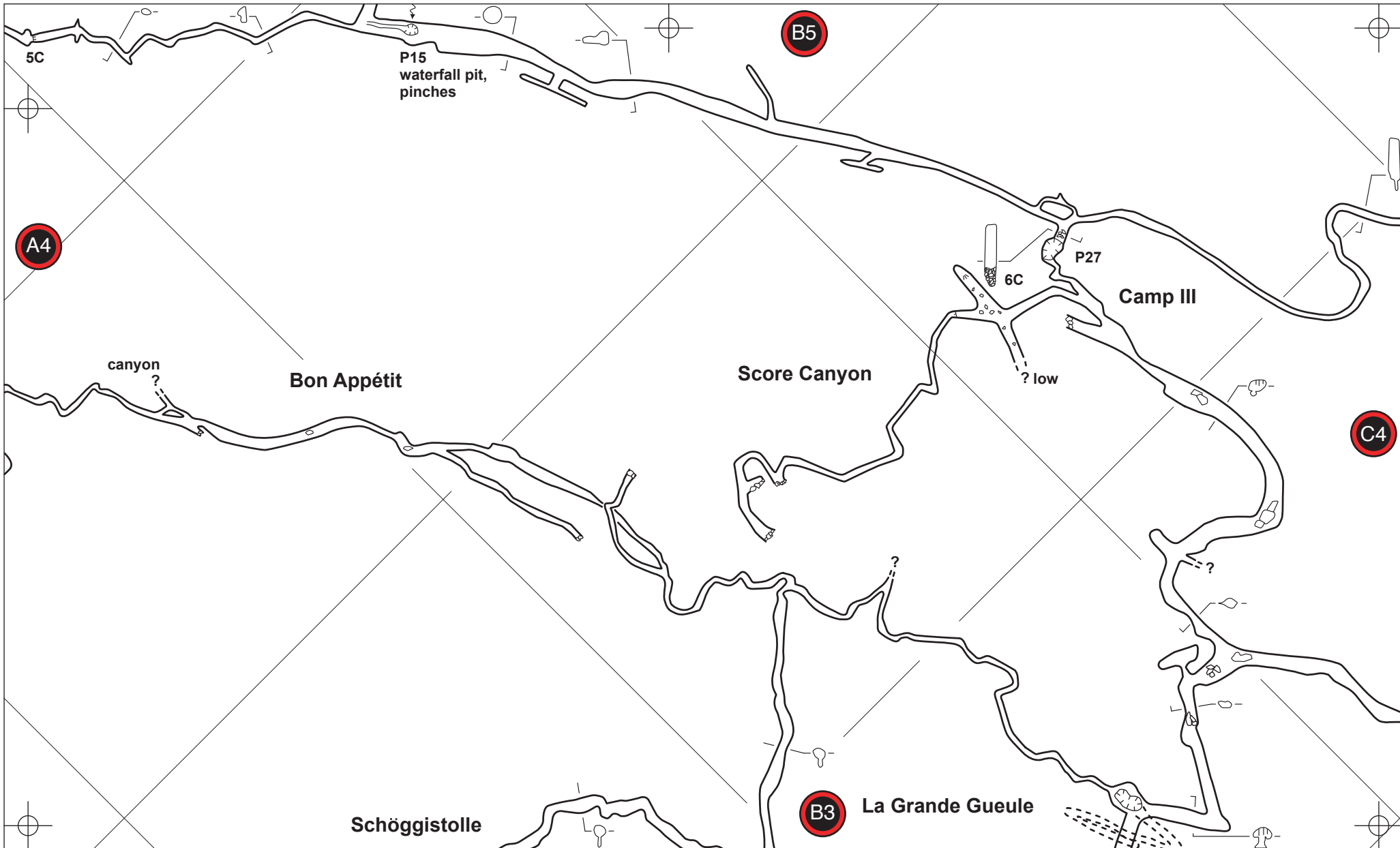
3

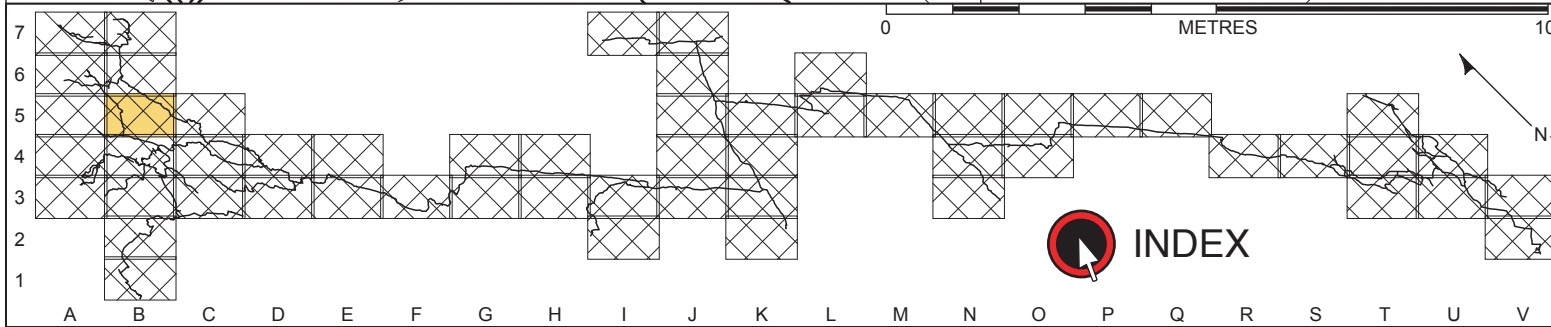
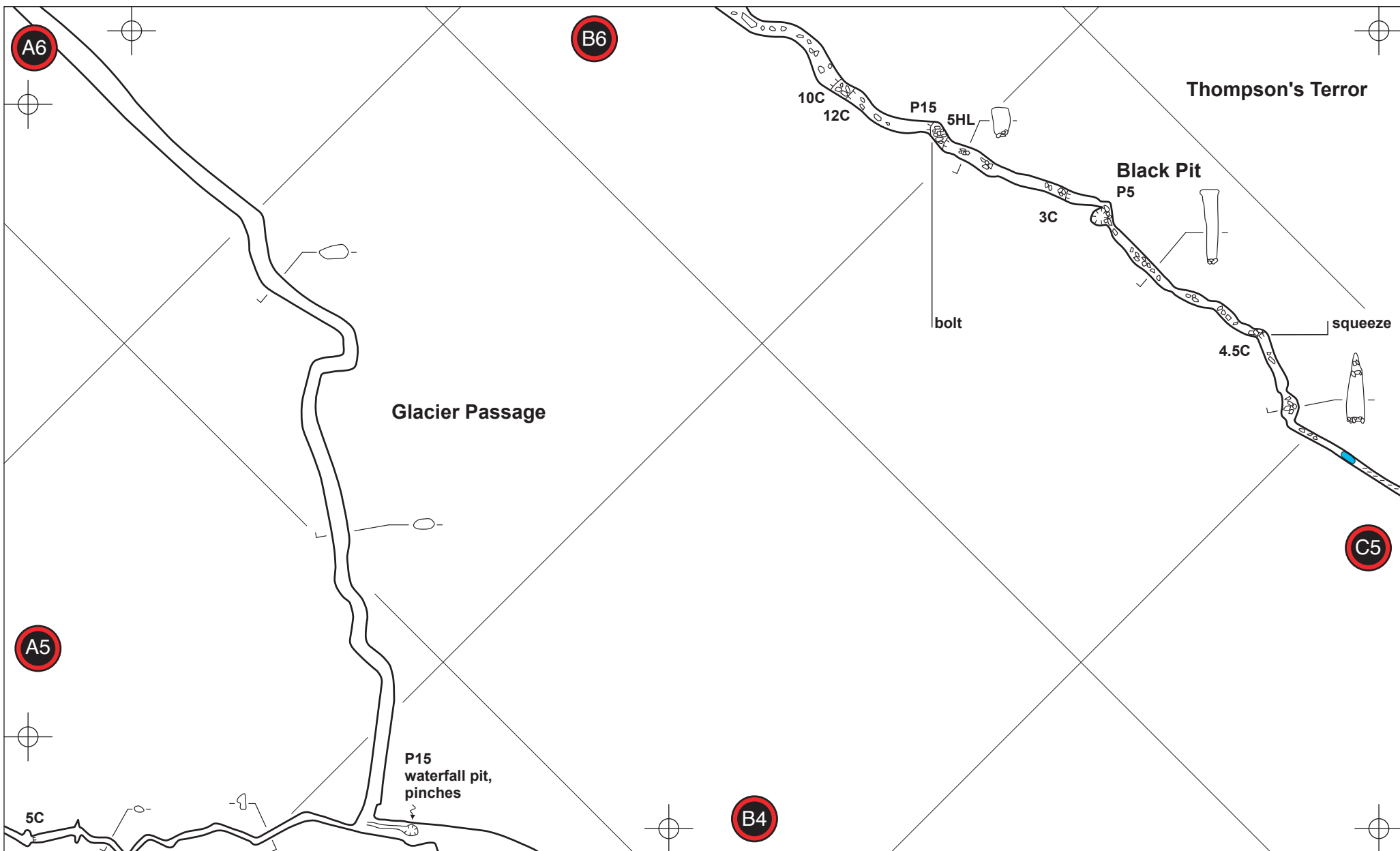
4

5

6

7



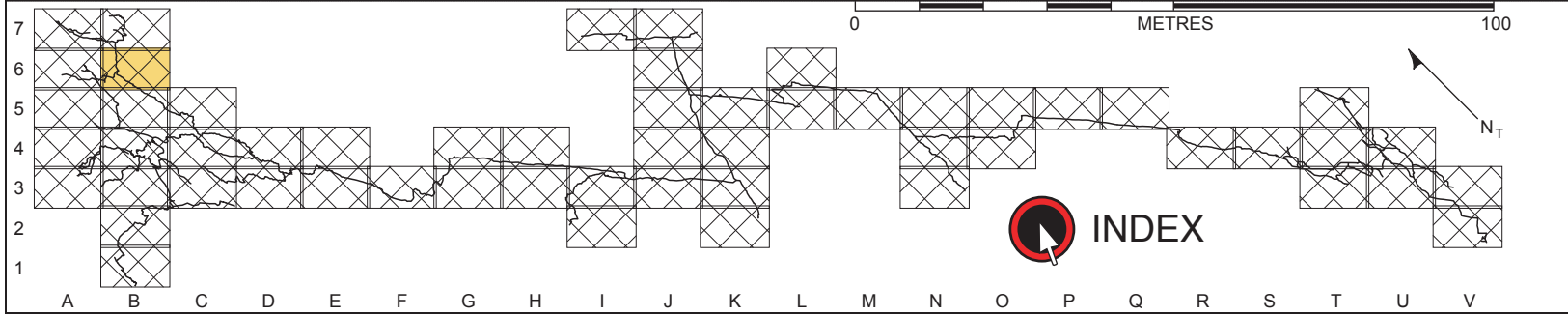
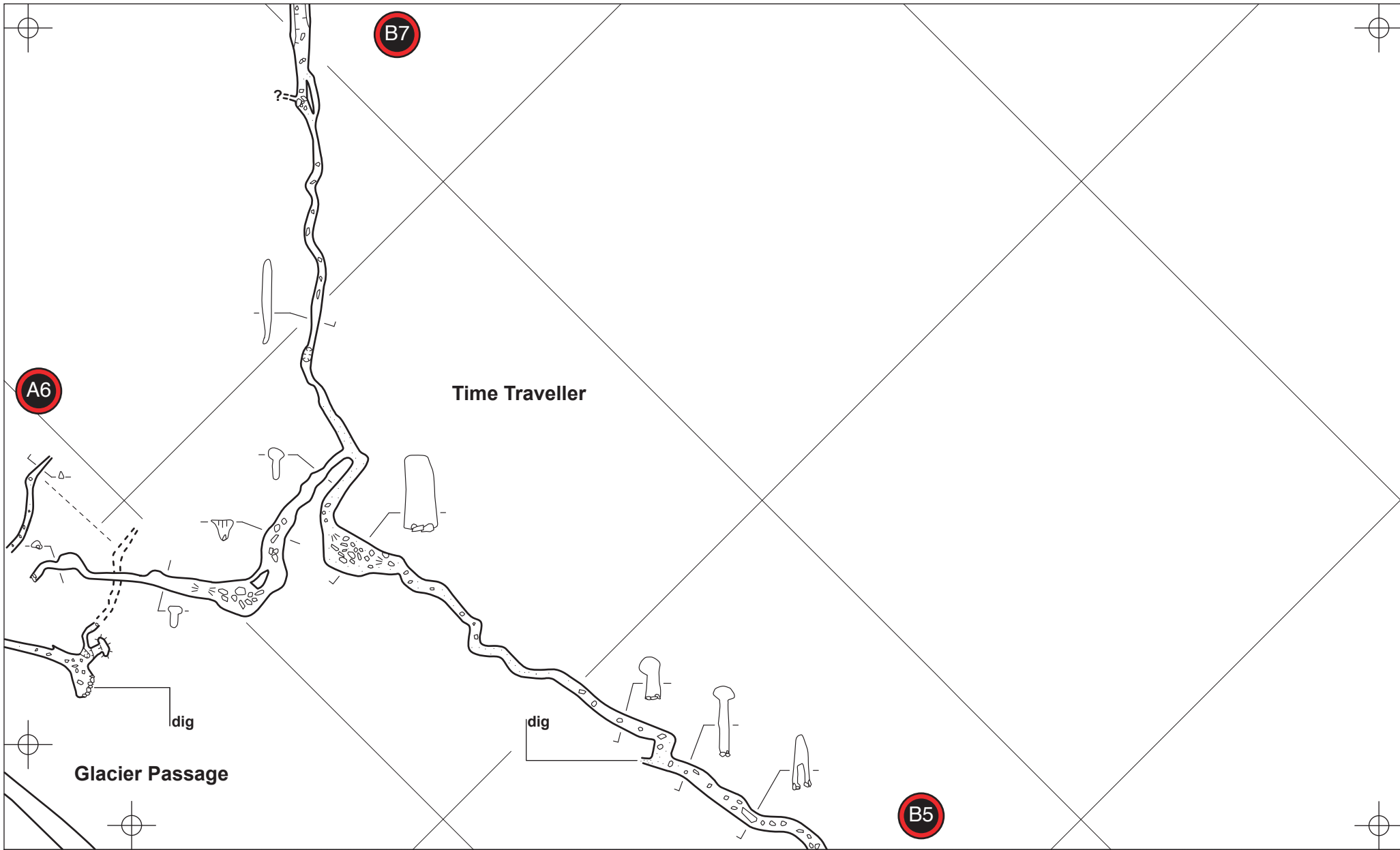


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

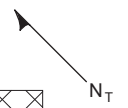
GLACIER PASSAGE
 Updated: 11/04



B5

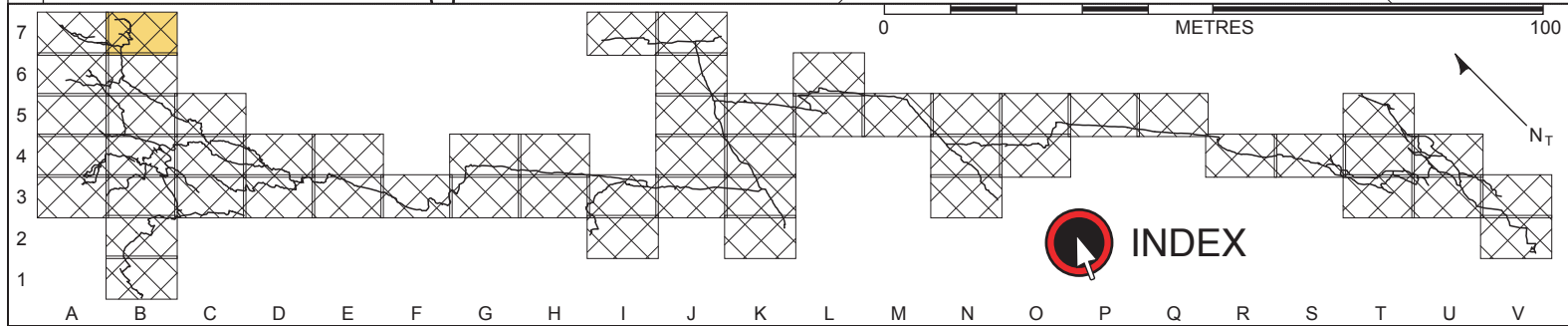
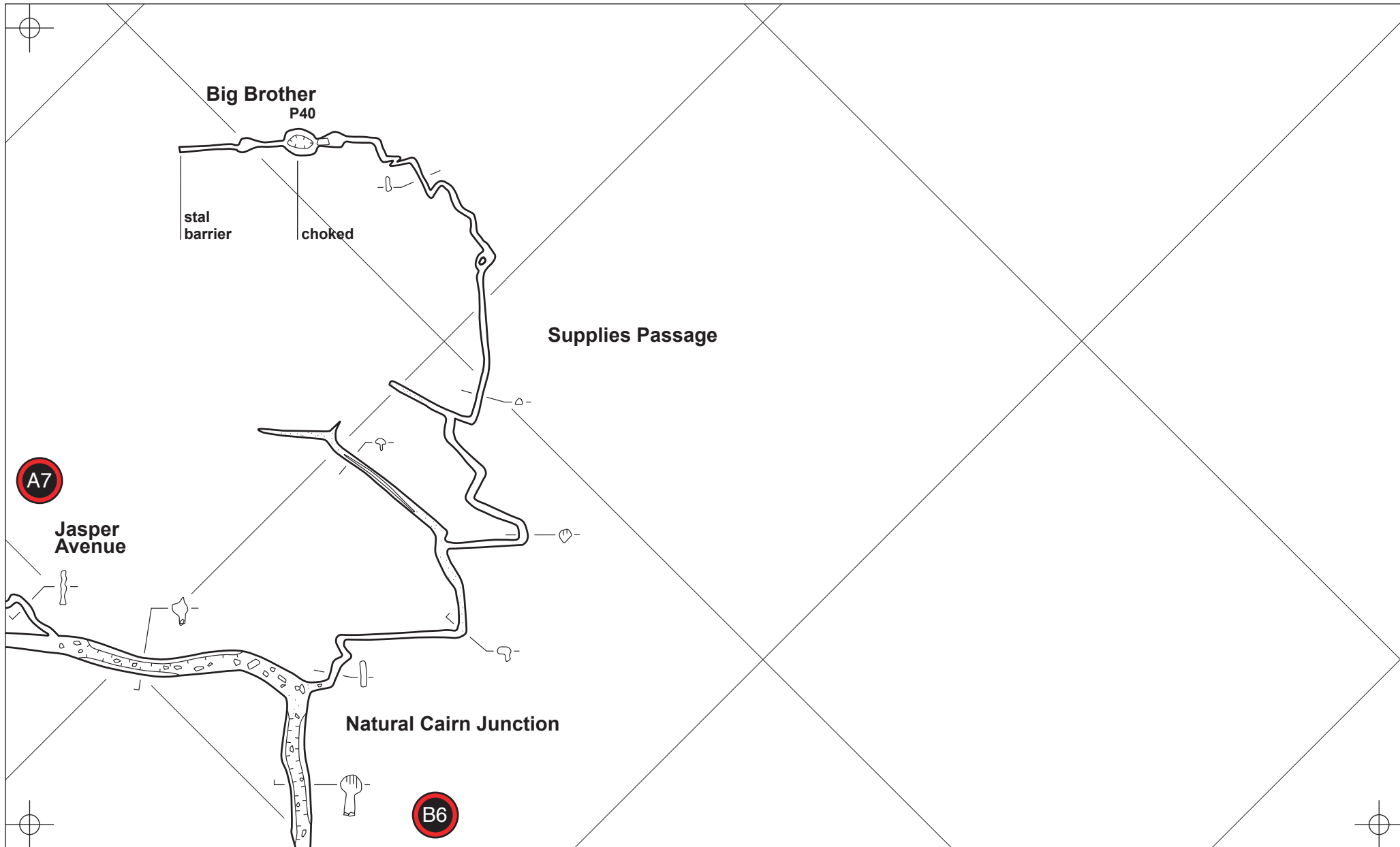


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m



TIME TRAVELLER
 Updated: 10/04

B6

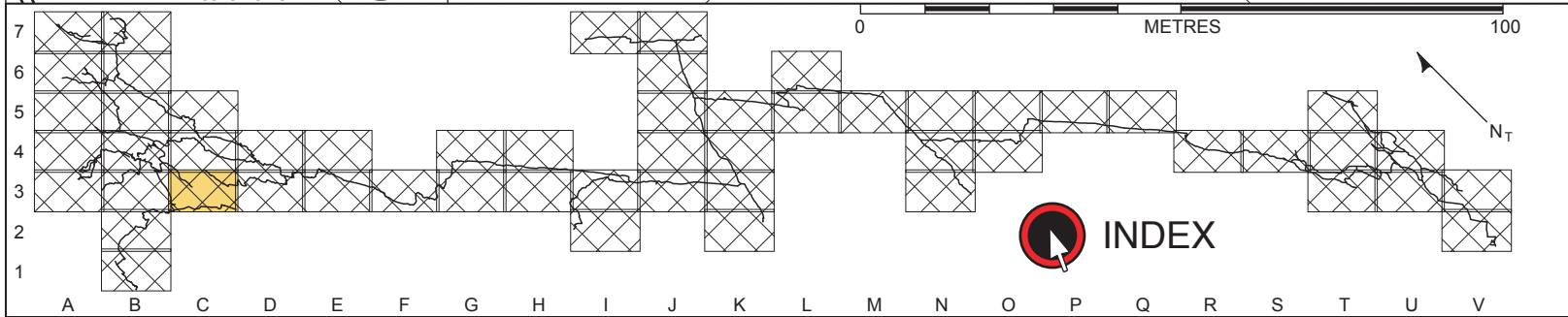
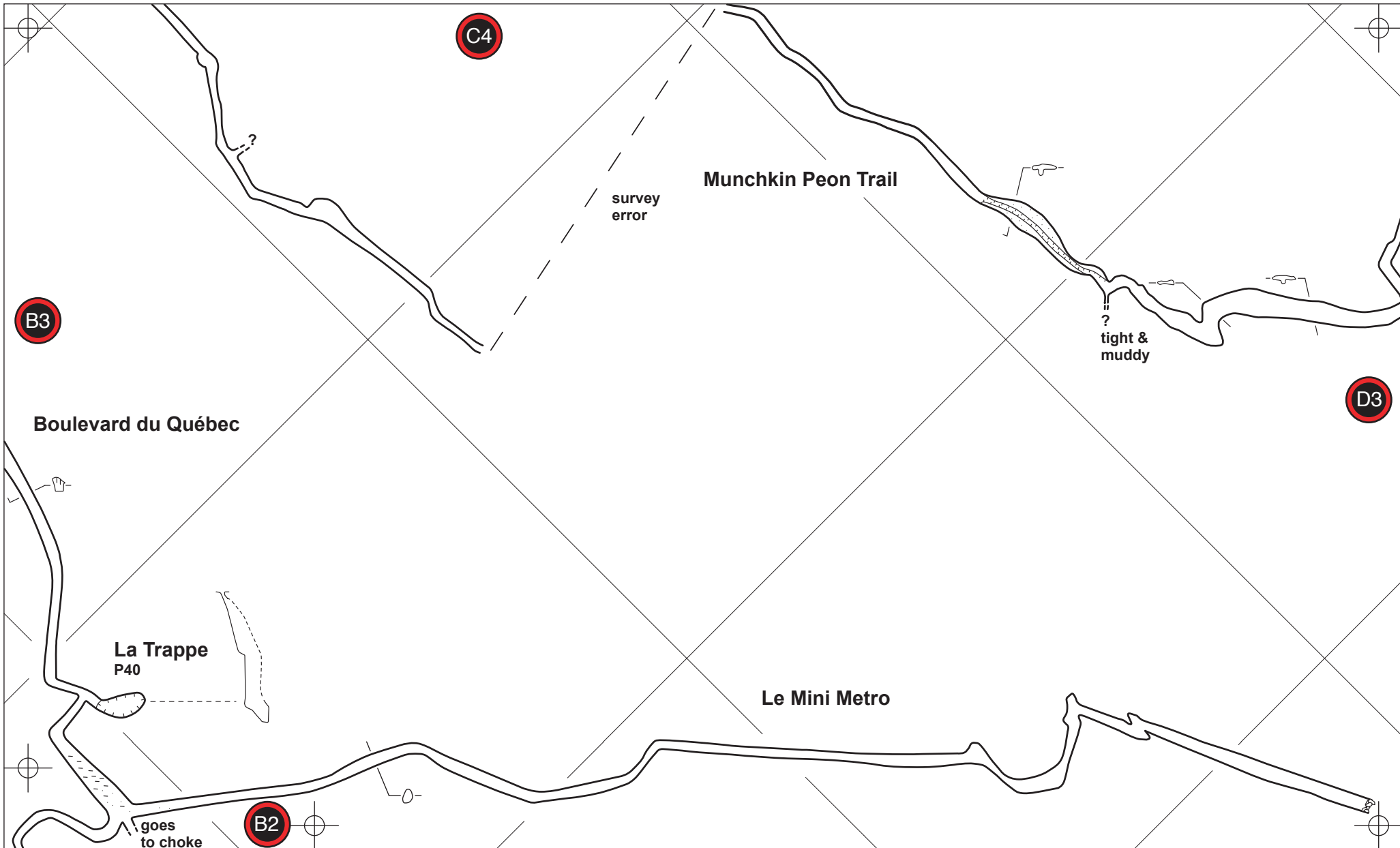


CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

SUPPLIES PASSAGE
Updated: 10/04



B7

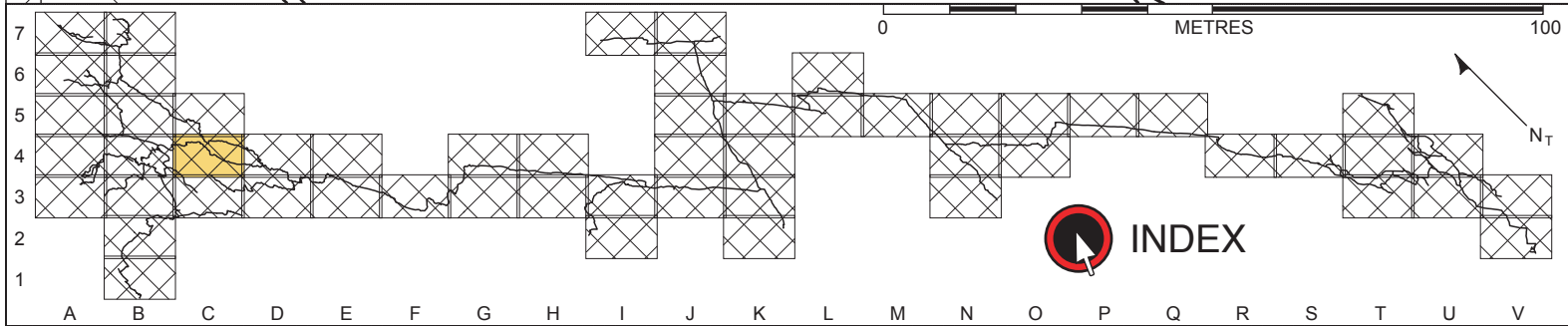
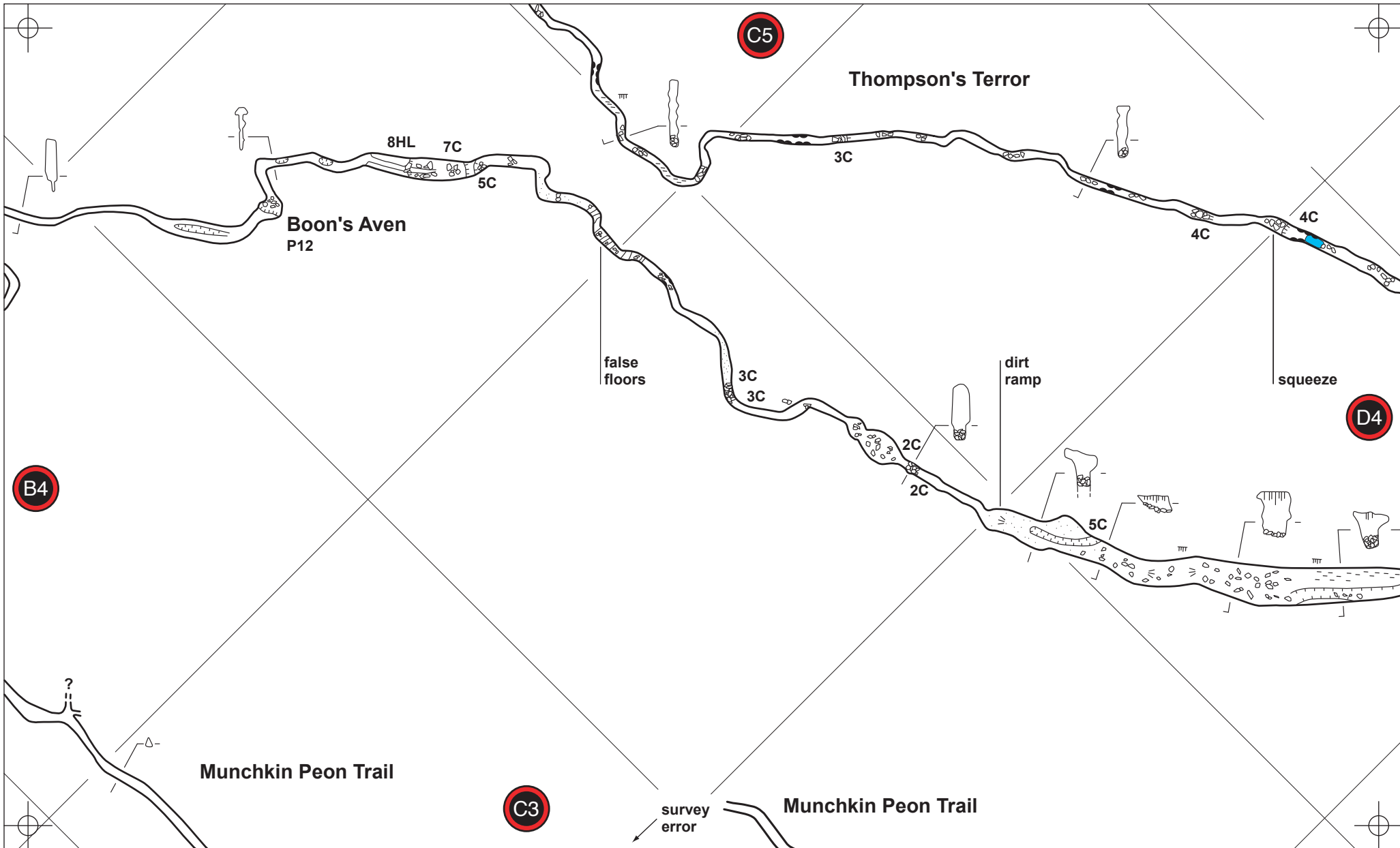


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

LE MINI METRO
 Updated: 10/04

INDEX

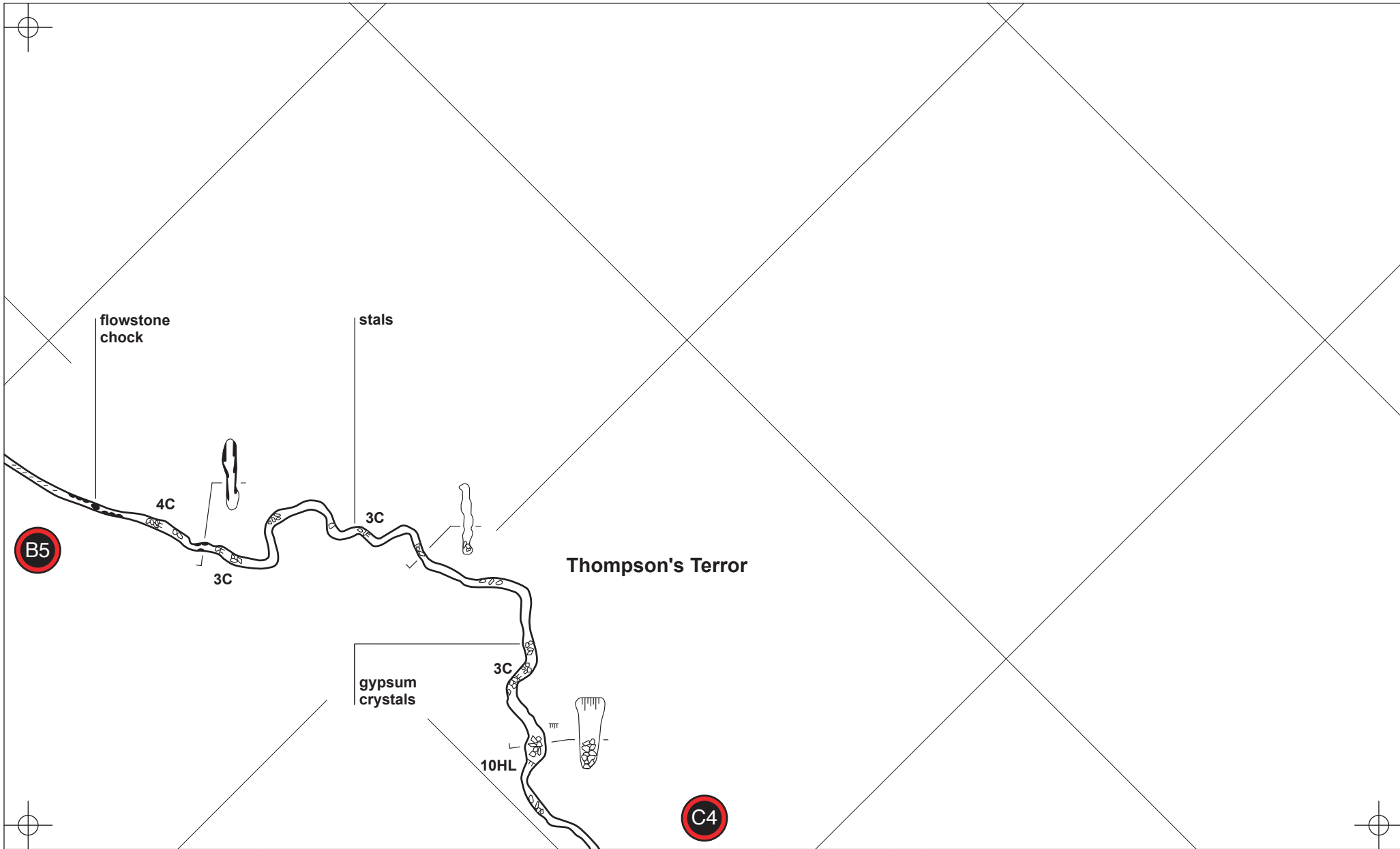
C3



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

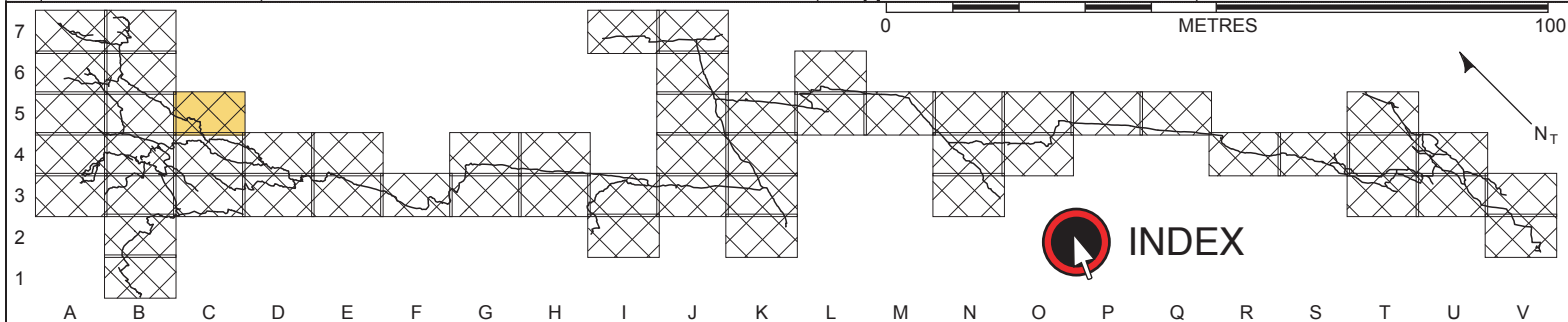
BOON'S AVEN
 Updated: 11/04

C4



B5

C4



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

THOMPSON'S TERROR
 Updated: 10/04

INDEX

C5



C3

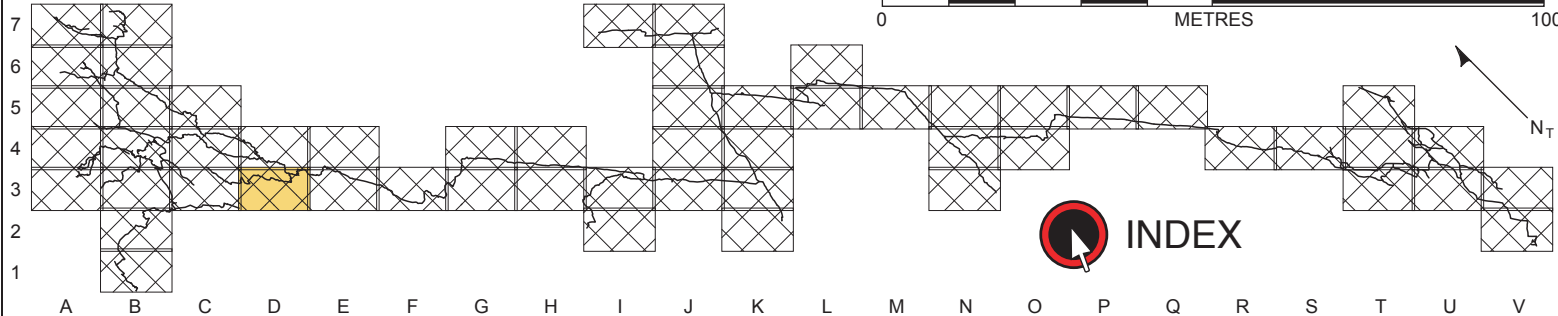
D4

E3

Munchkin Peon Trail

Munchkin Peon Climb
7C

The False Crutch



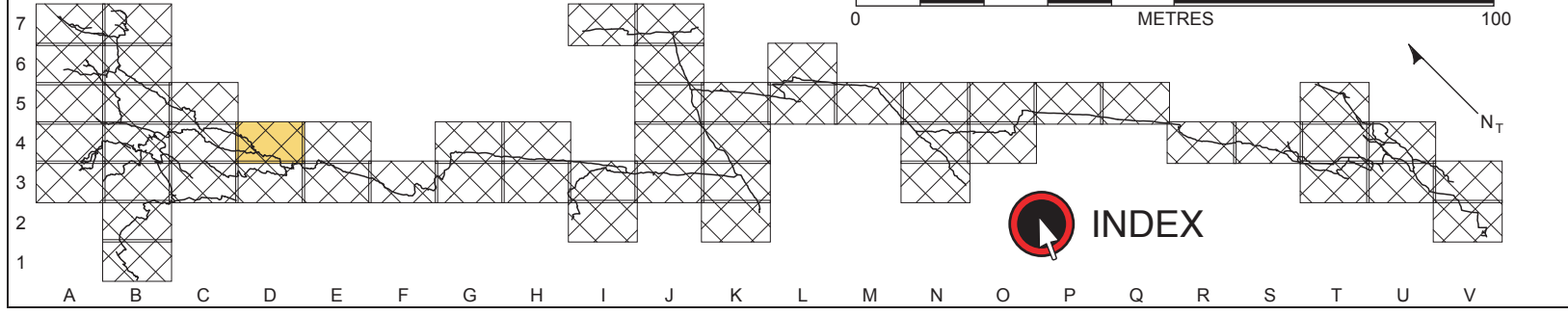
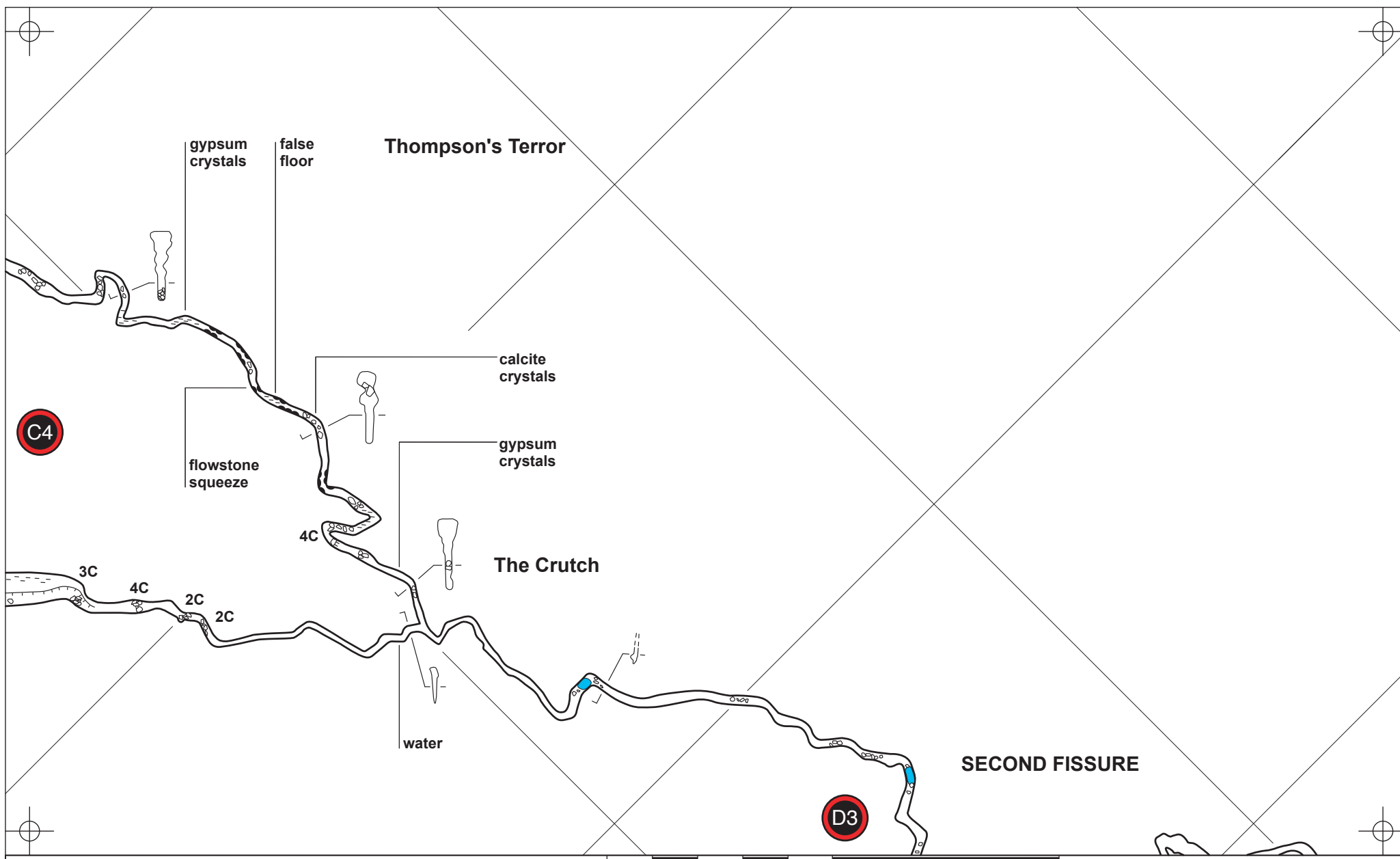
0 METRES 100

CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

MUNCHKIN PEON TRAIL
Updated: 10/04

 **INDEX**

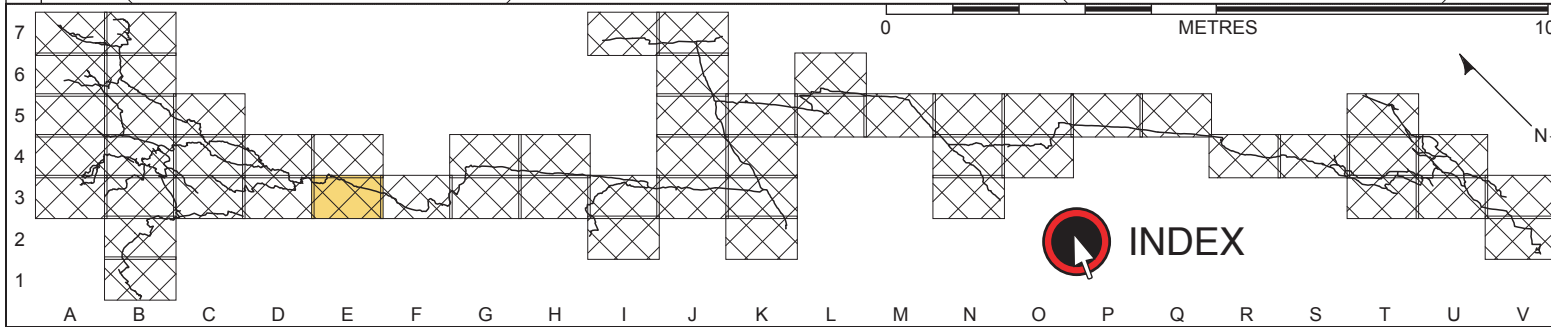
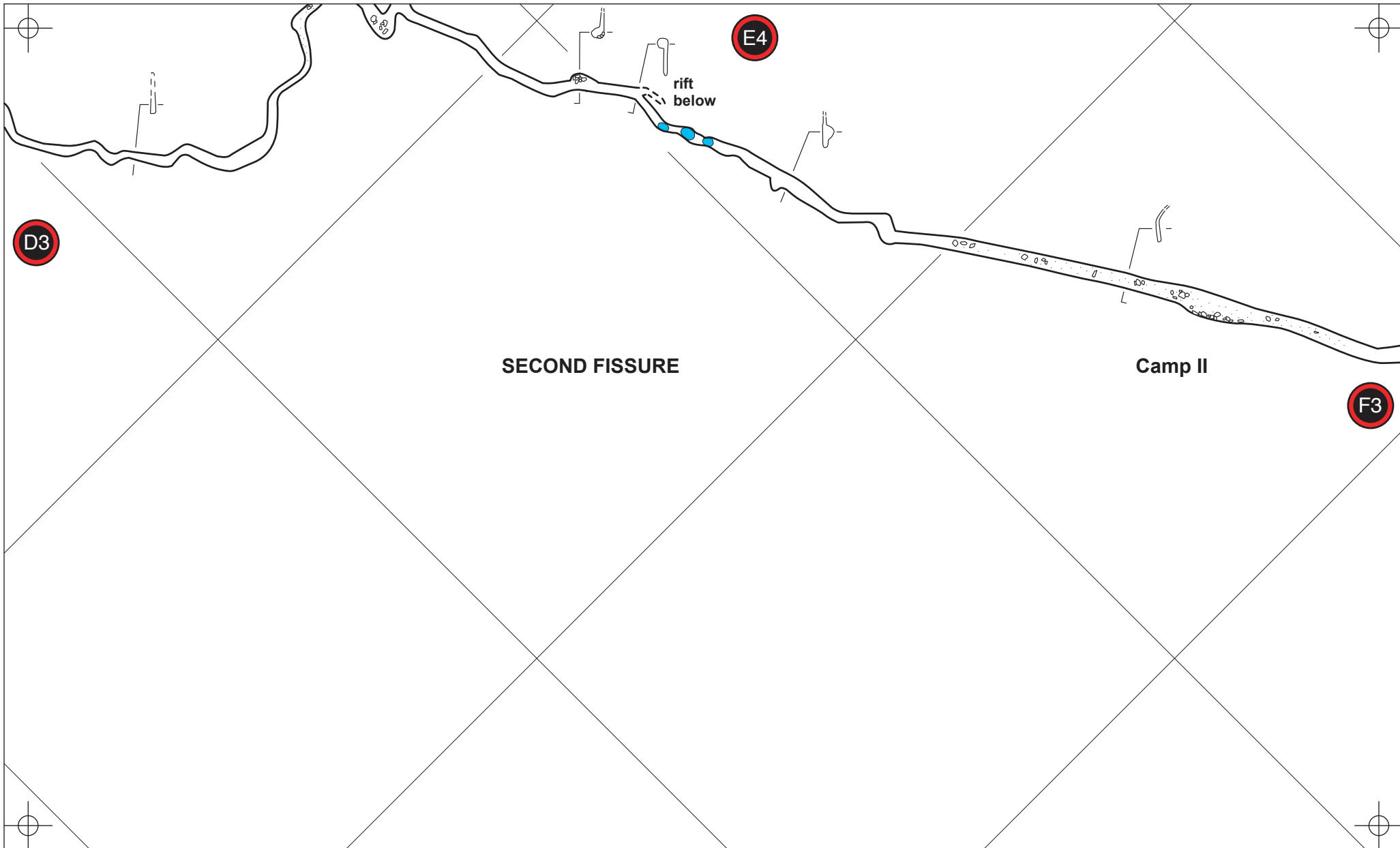
D3



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

THE CRUTCH
 Updated: 11/04

D4



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

CAMP II
 Updated: 11/04
E3

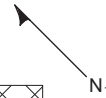
SECOND FISSURE

cubic pearls

E3

0 METRES 100

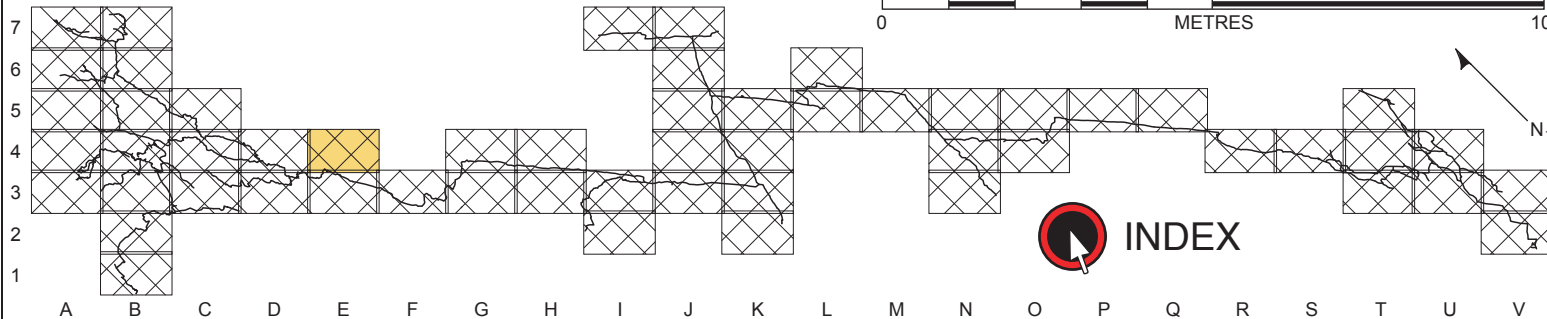
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

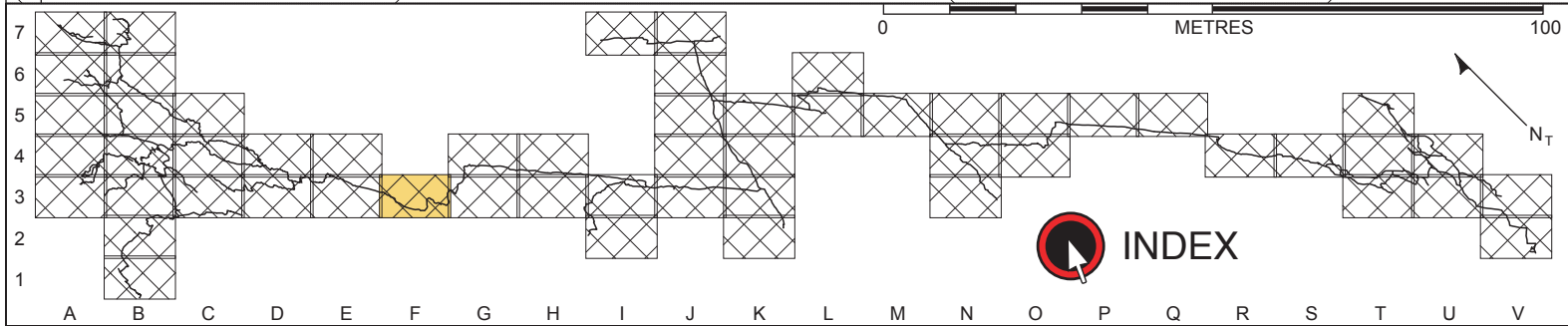
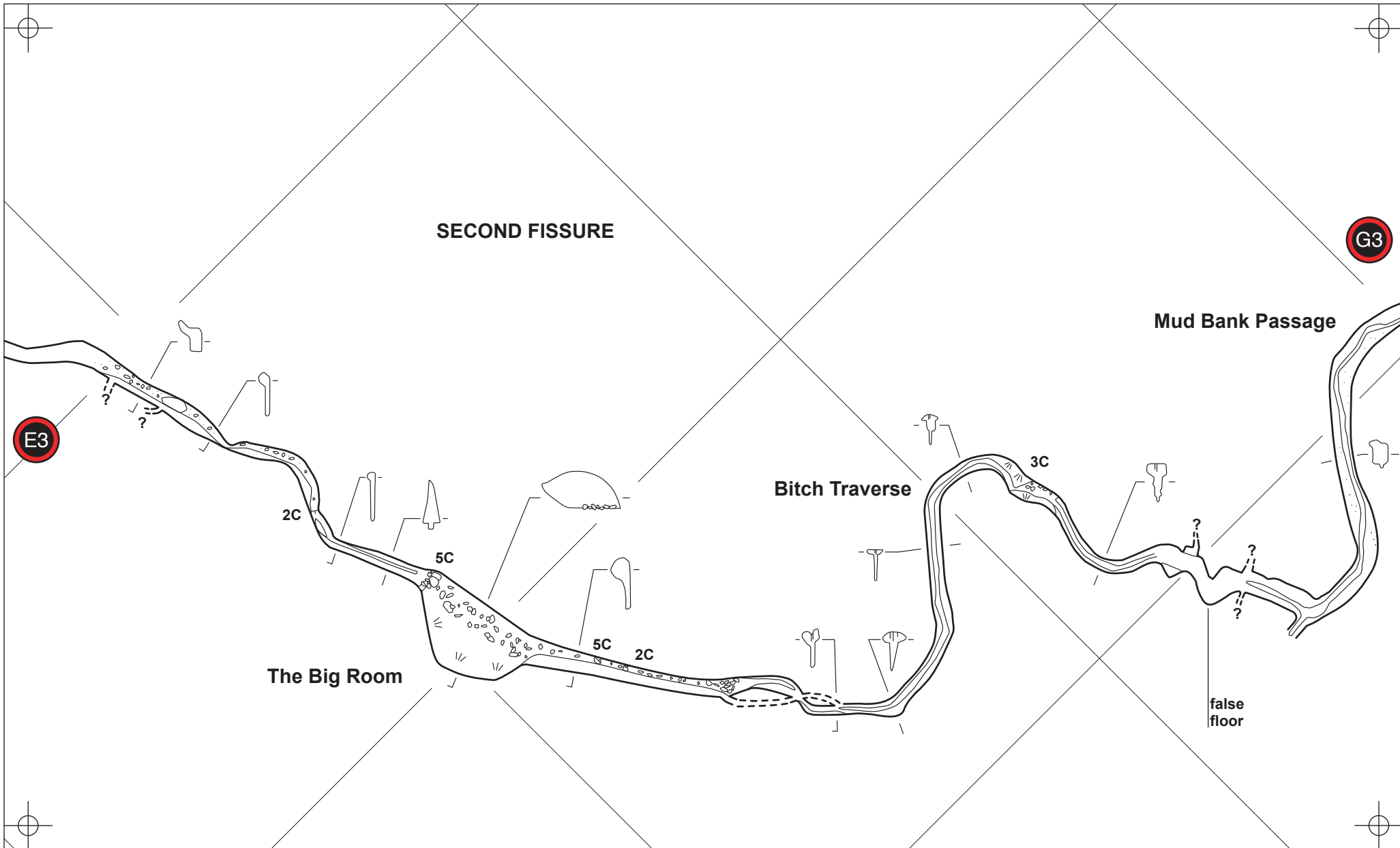


INDEX

CUBIC PEARLS
Updated: 11/04

E4





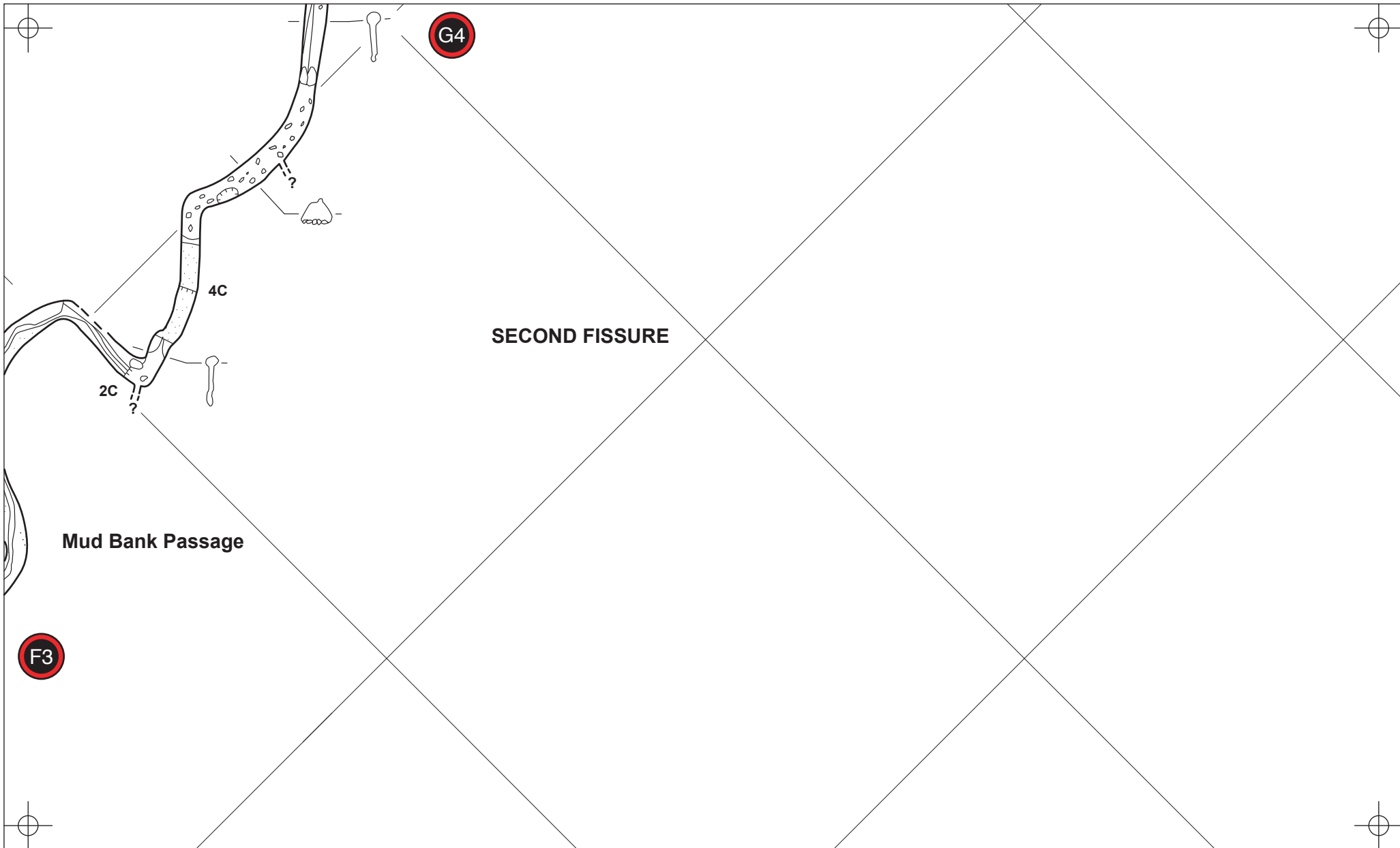
0 METRES 100

CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m



THE BIG ROOM
 Updated: 10/04

F3



Mud Bank Passage

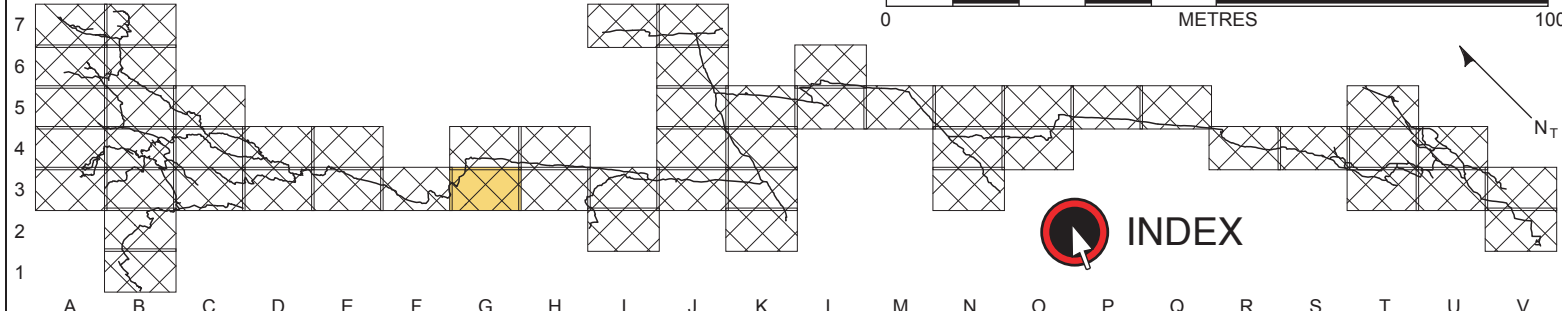
SECOND FISSURE

G4

F3

2C

4C



0 METRES 100

CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

MUD BANK PASSAGE
 Updated: 10/04

INDEX

G3

SECOND FISSURE

false floor

false floor

crawl under

H4

Slickenslides

6C

G3

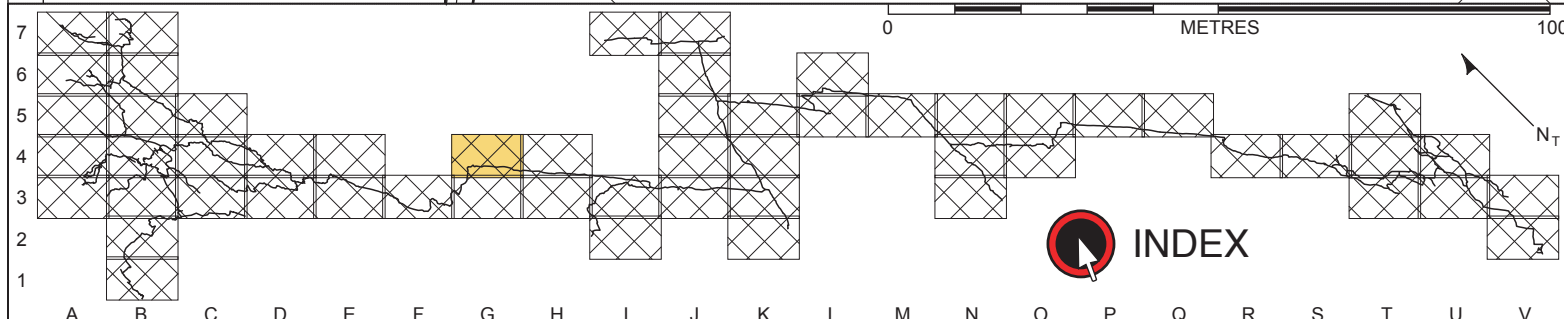
0 METRES 100

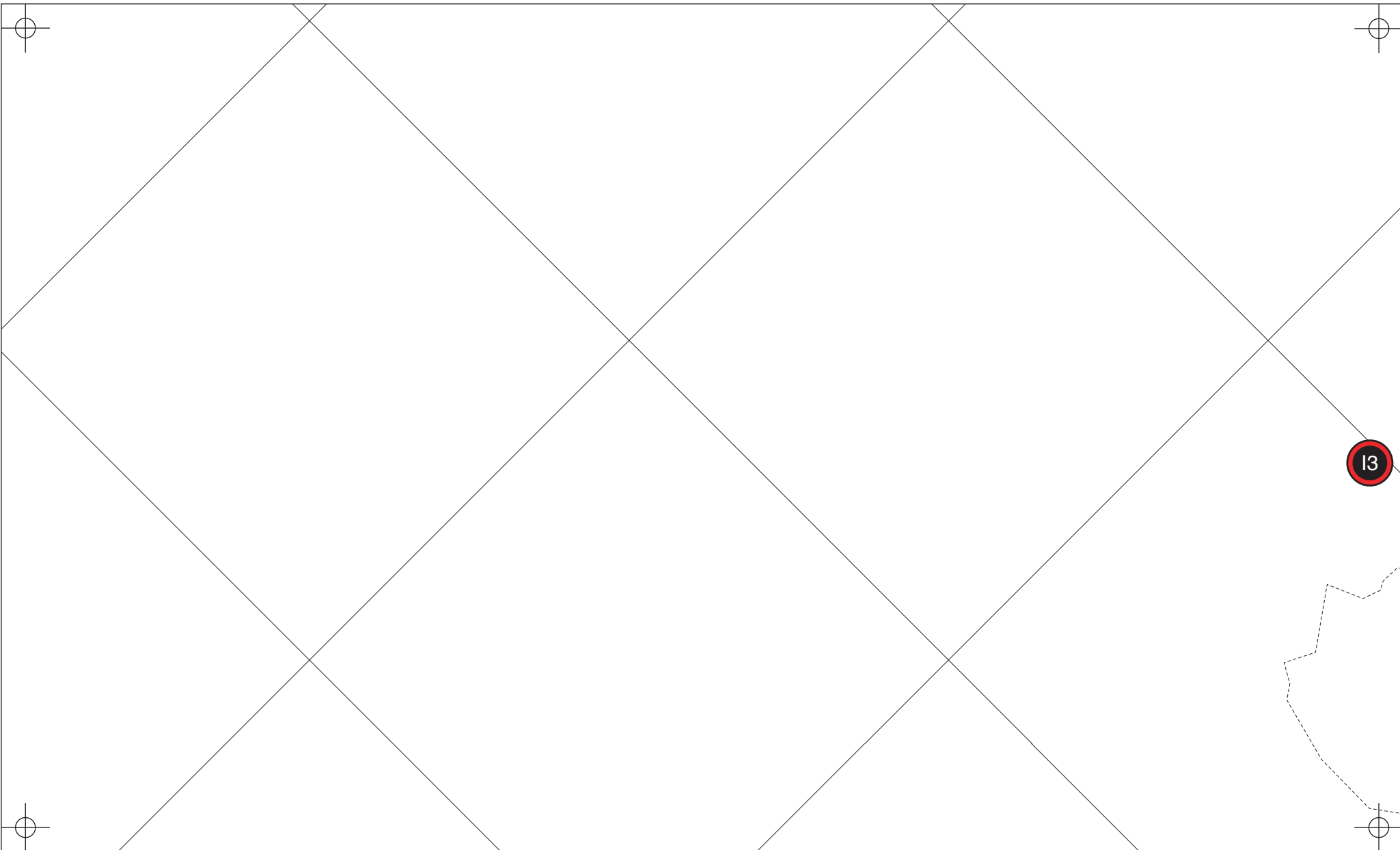
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

SLICKENSLIDES
Updated: 10/04

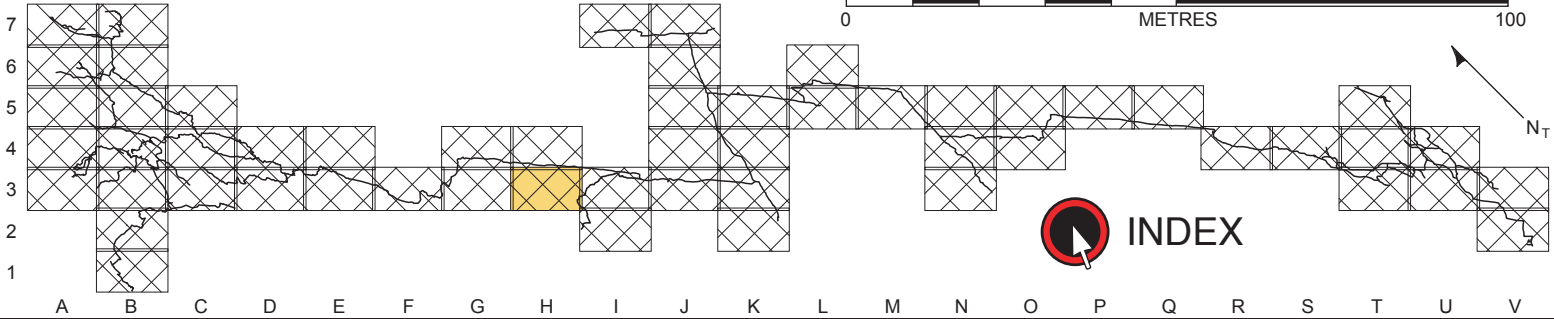
INDEX

G4





13



CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

F7 MIDDLE
Updated: 11/05

H3

SECOND FISSURE

G4

13

crawl under

6C

2C

0 METRES 100

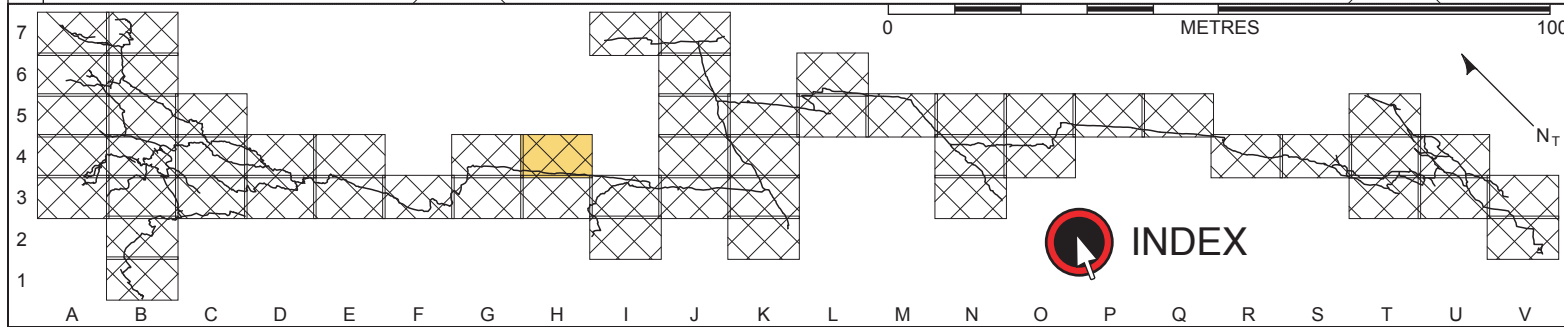
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

N_T

SECOND FISSURE
Updated: 10/04

 **INDEX**

H4

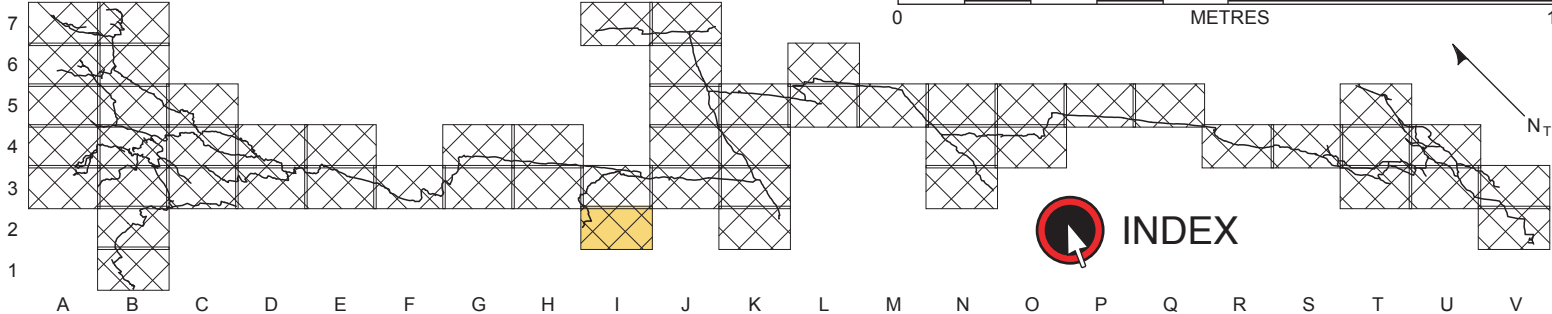


13

12C
6C
P12
continues
low
wet

0 METRES 100

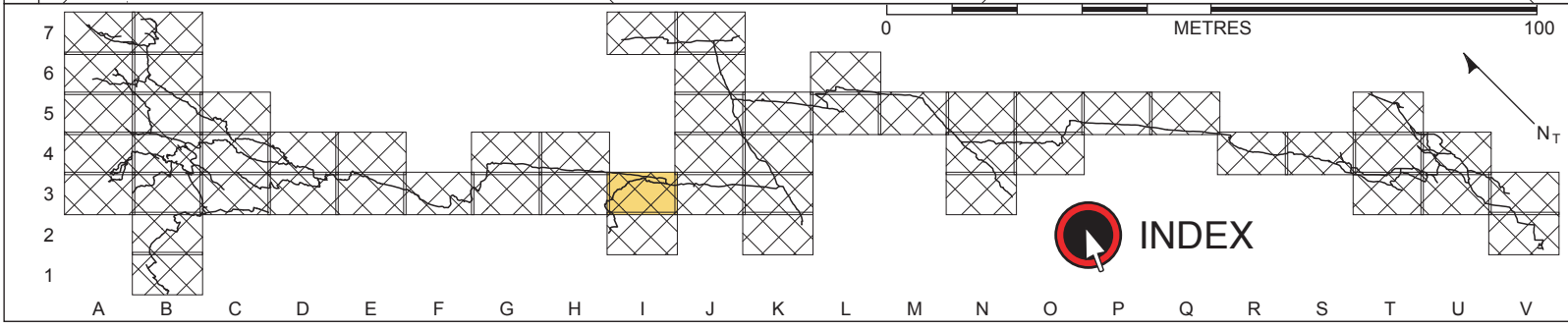
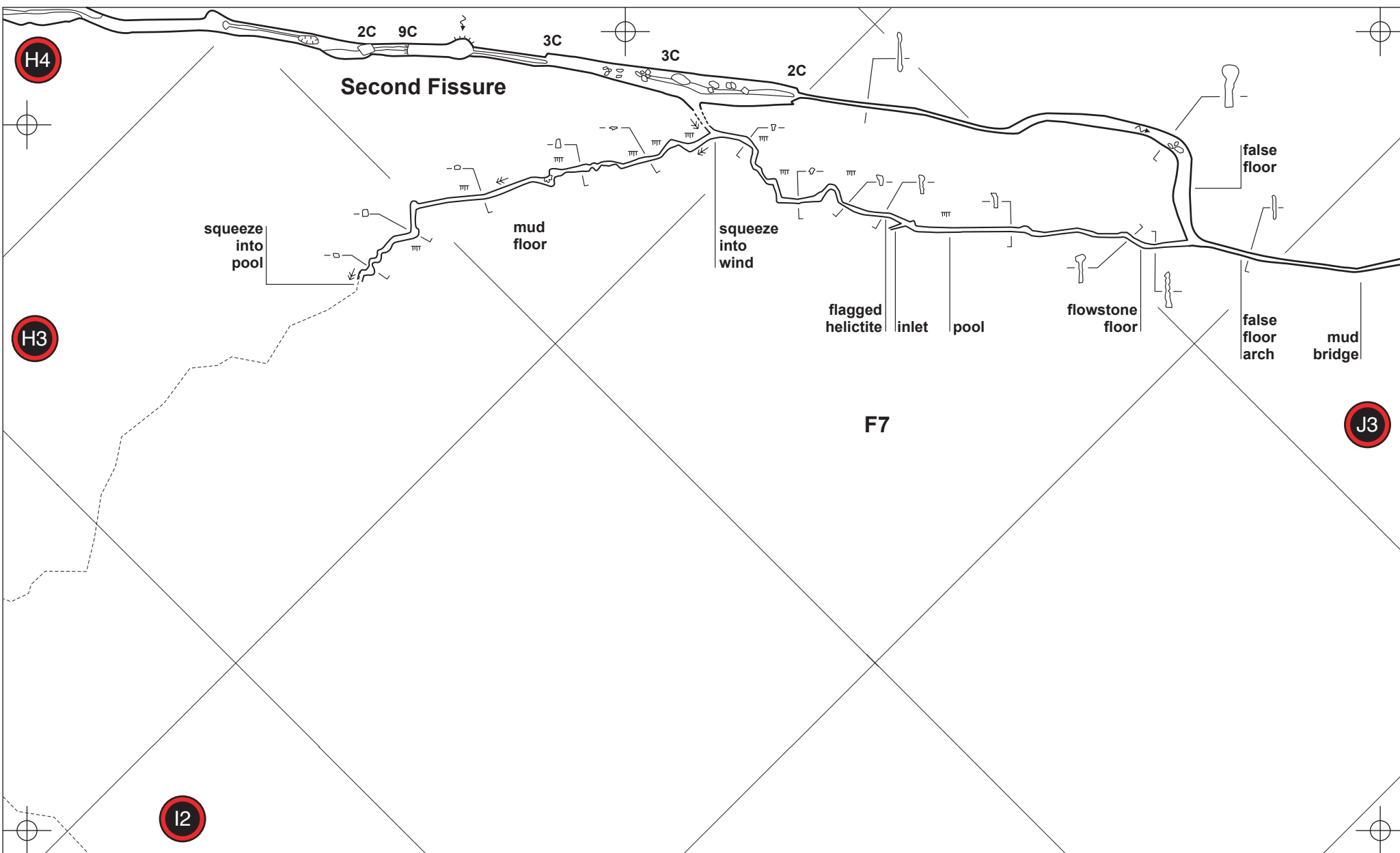
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m



INDEX

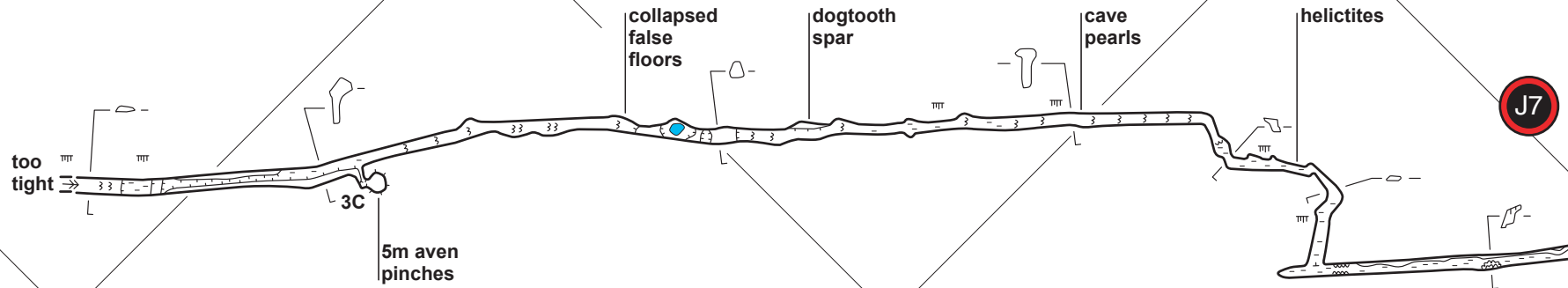
F7 END
Updated: 11/05

12

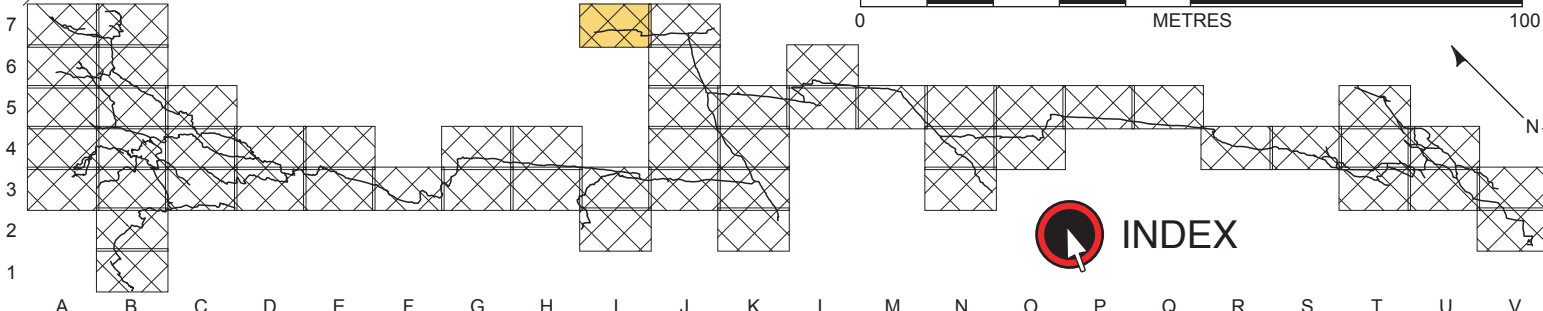


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

F7
 Updated: 11/05
I3

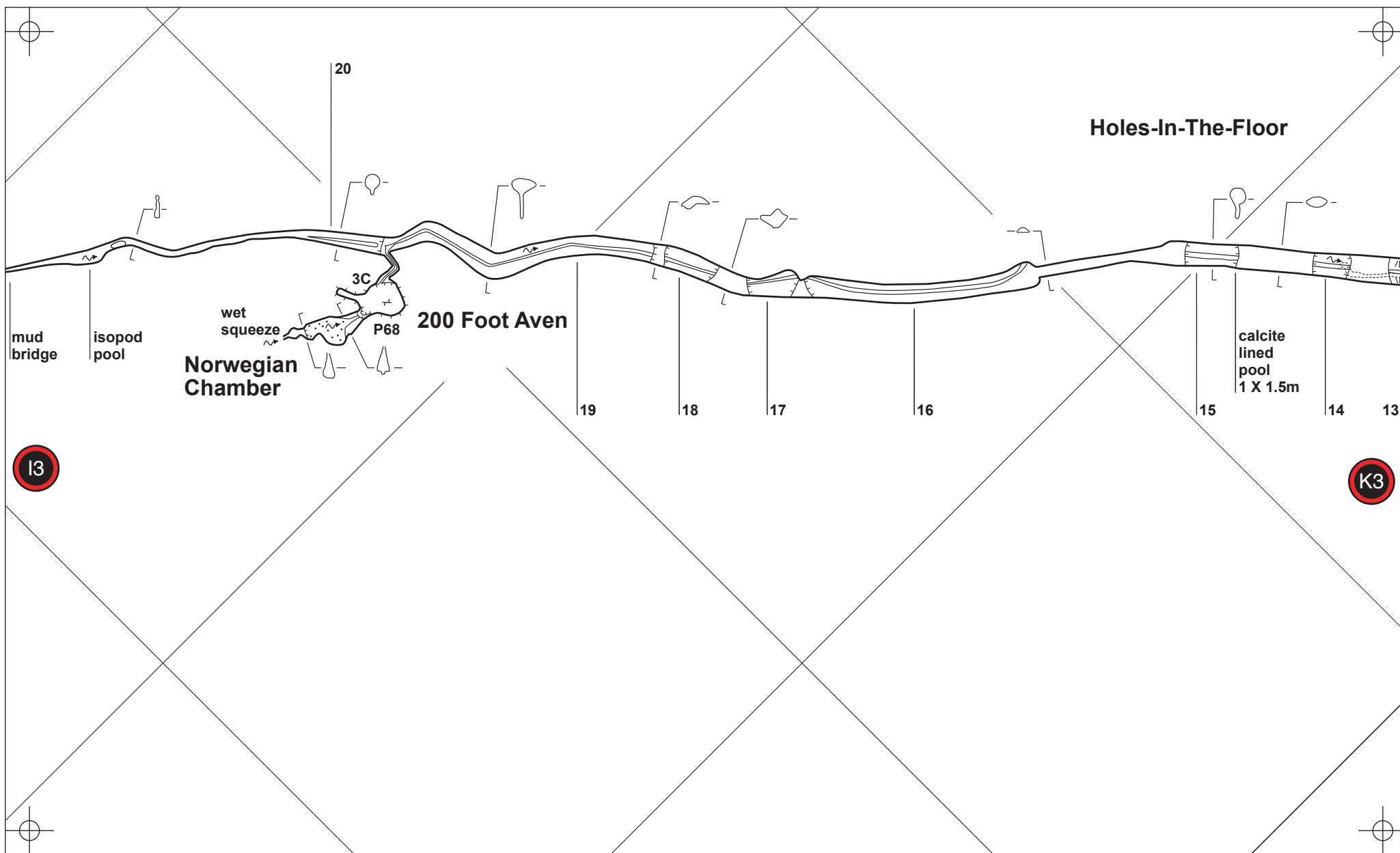


0 METRES 100



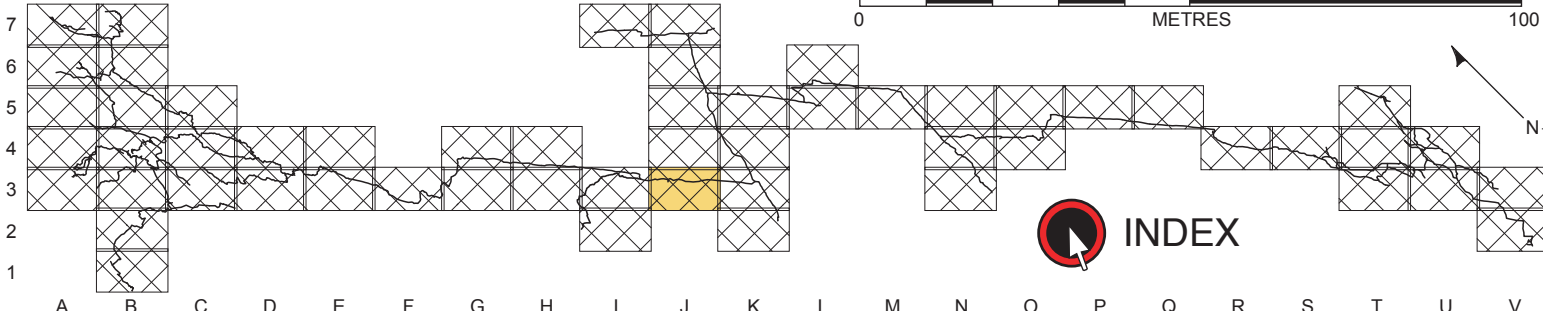
CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

THE NEXT SCENE [west]
 Updated: 11/05



I3

K3

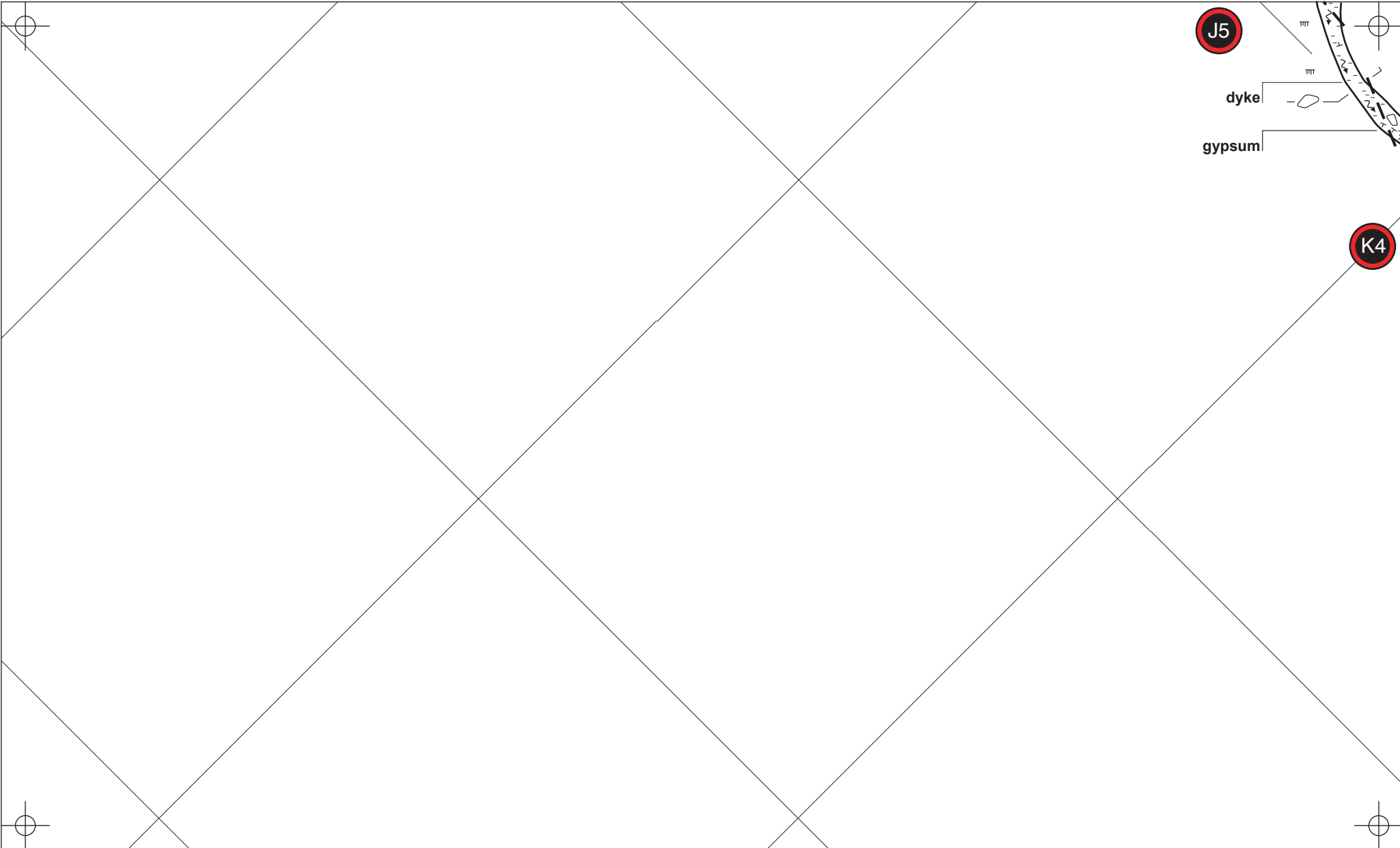


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

200 FOOT AVEN
 Updated: 5/06

J3

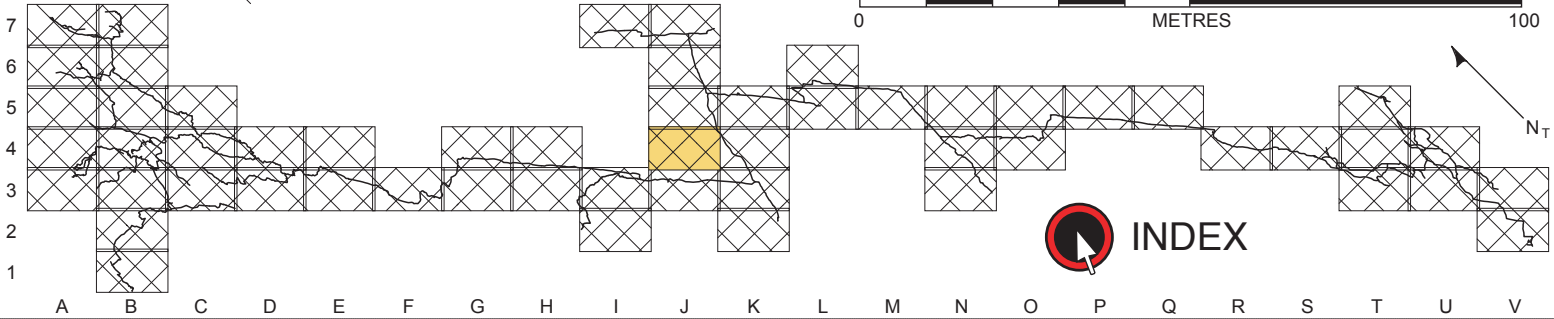
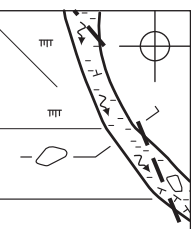
INDEX



J5

K4

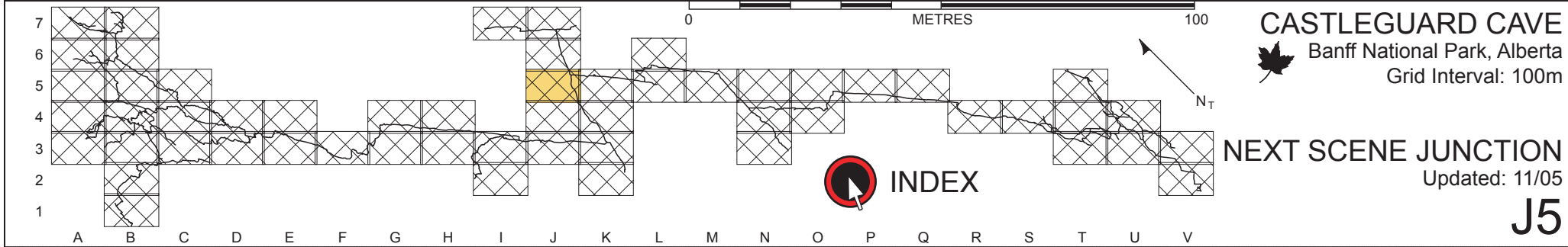
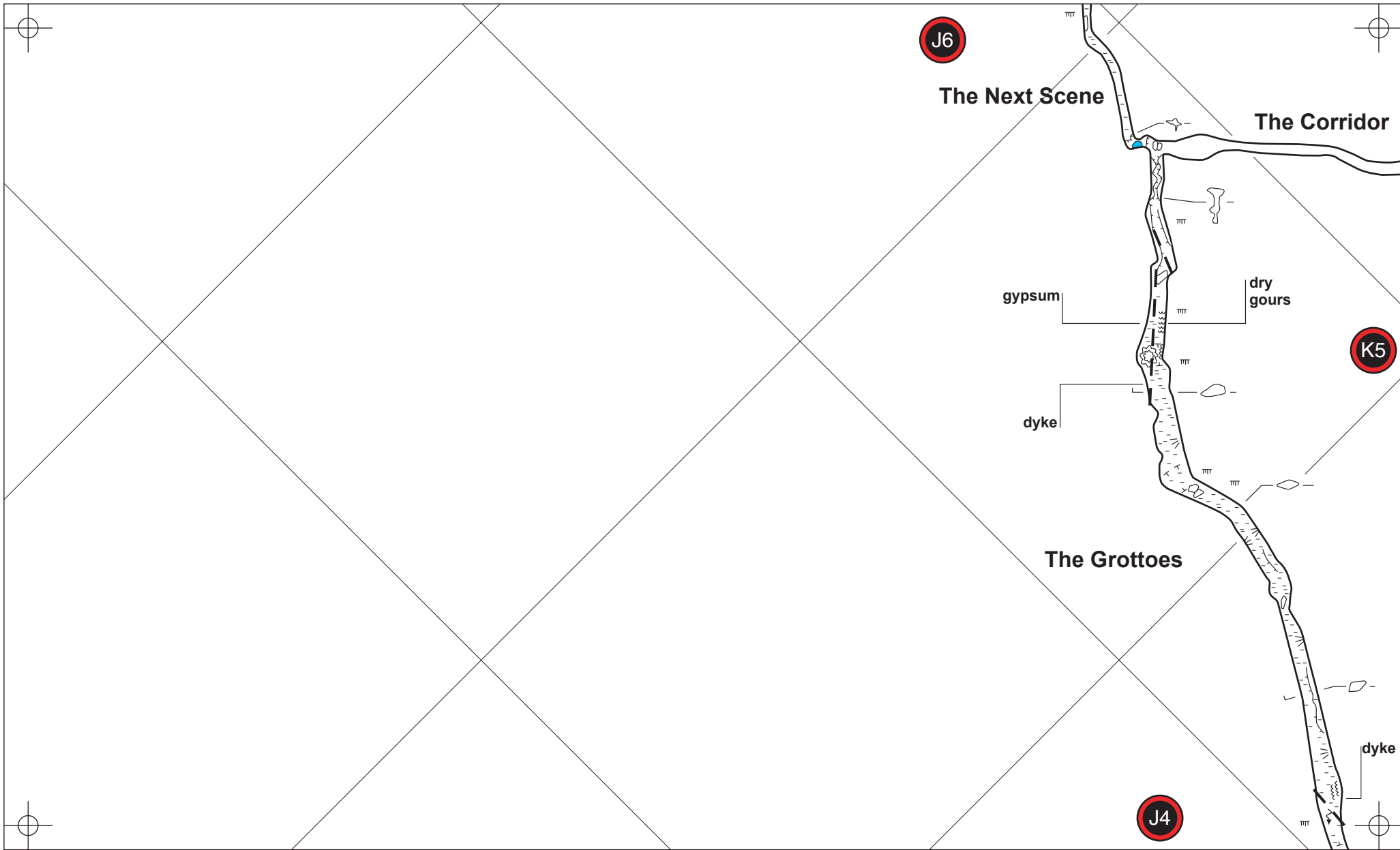
dyke
gypsum

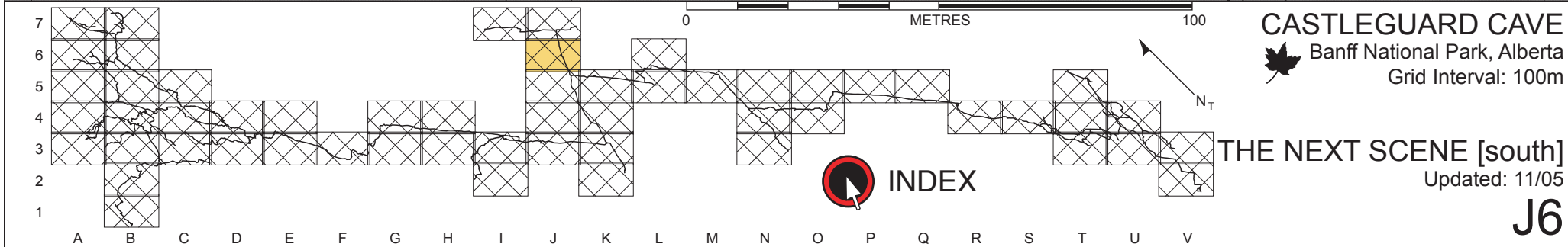
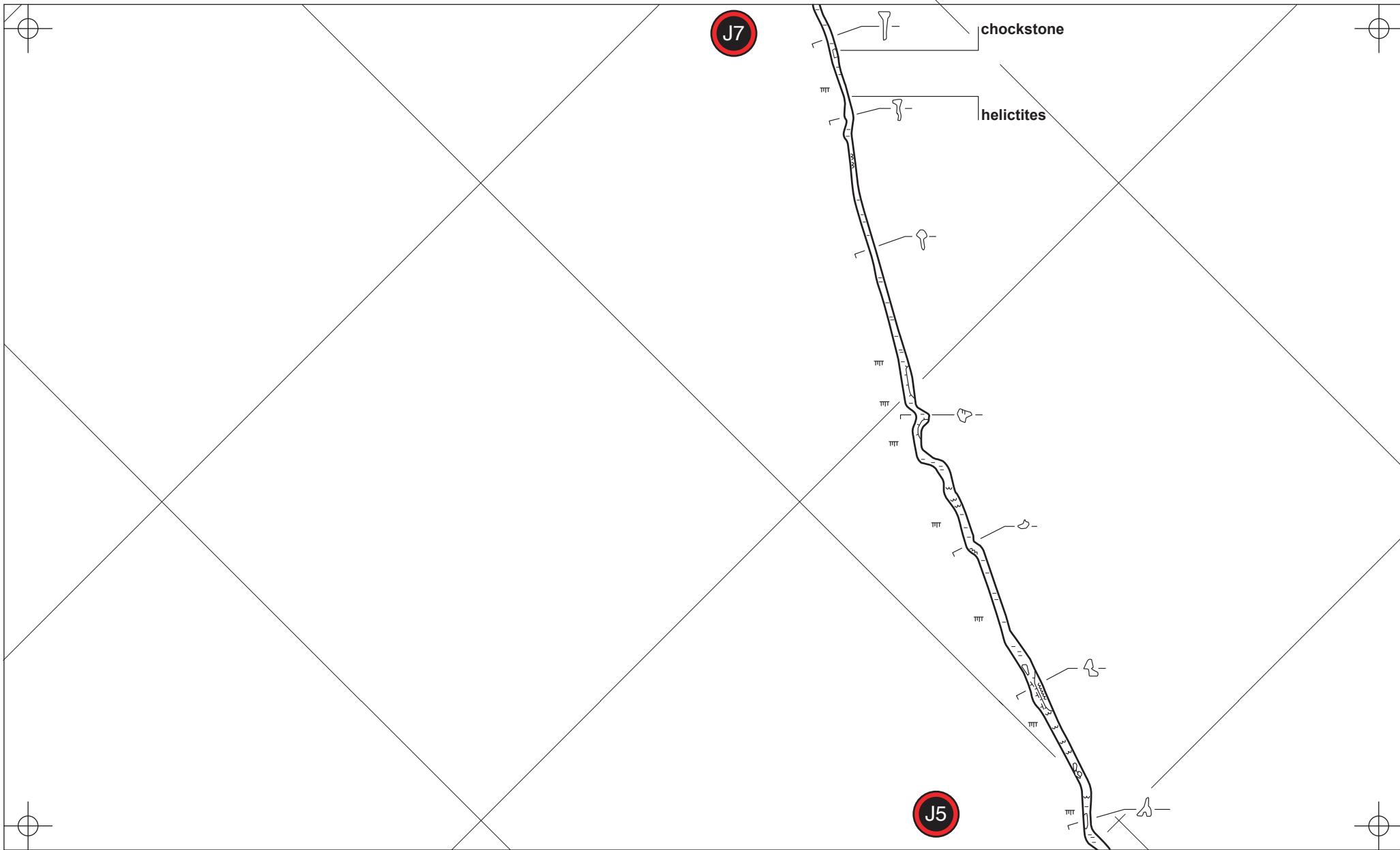


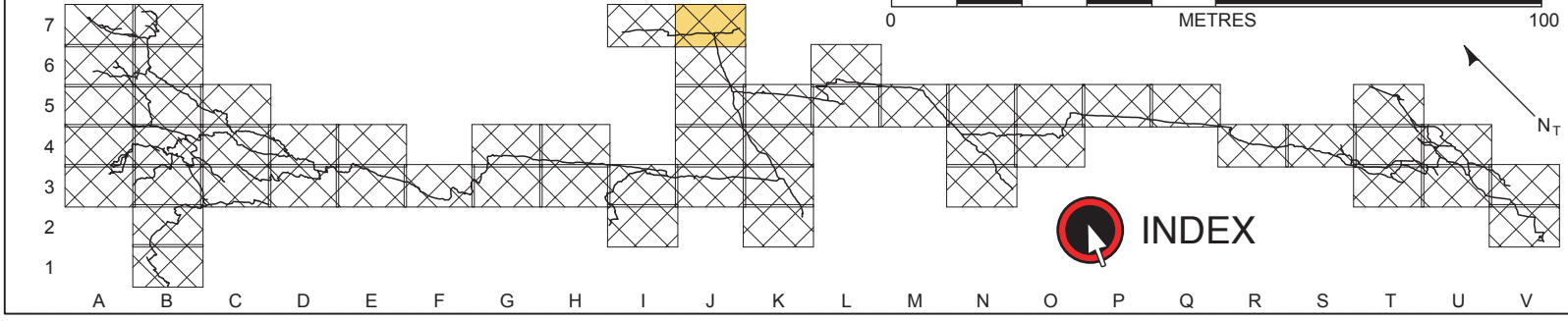
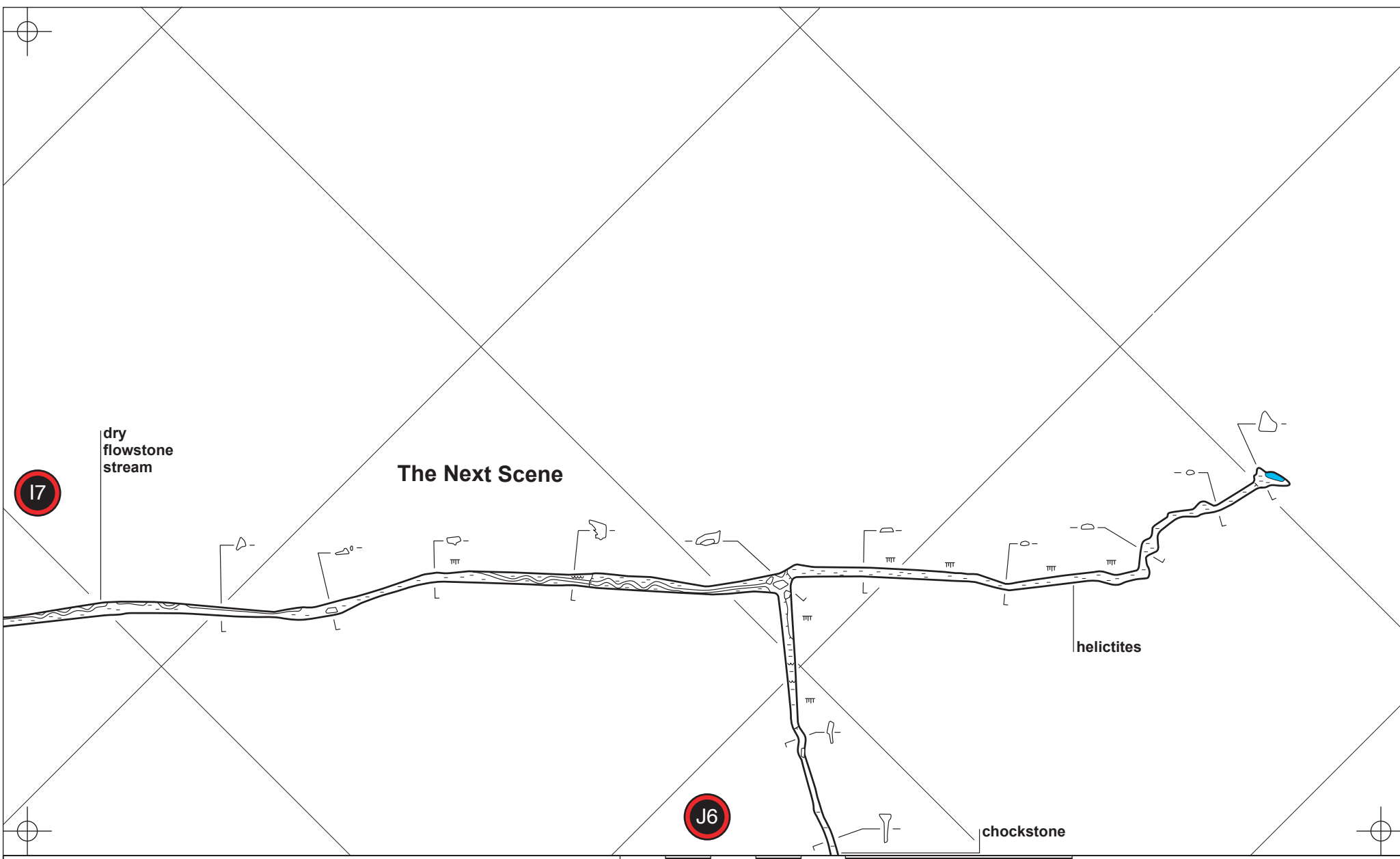
CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

THE GROTTOS [north]
 Updated: 11/05

J4



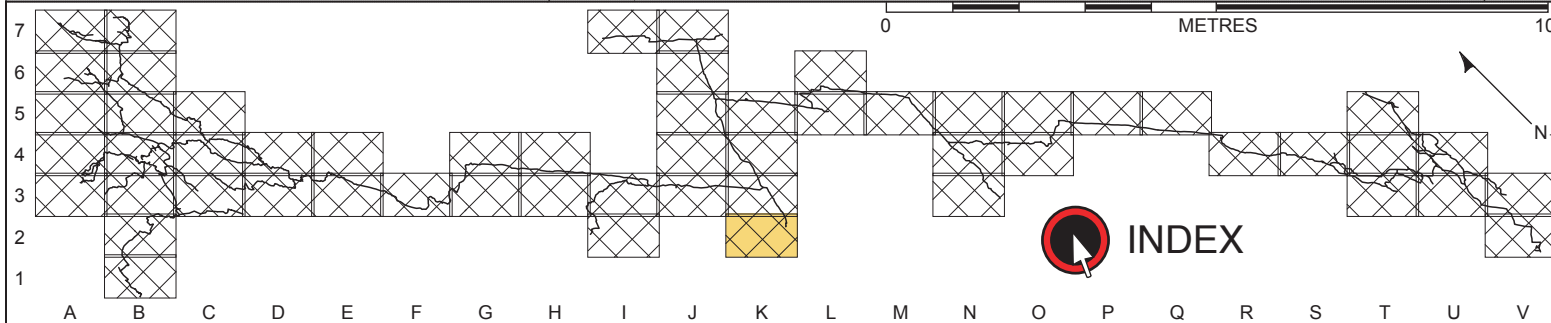
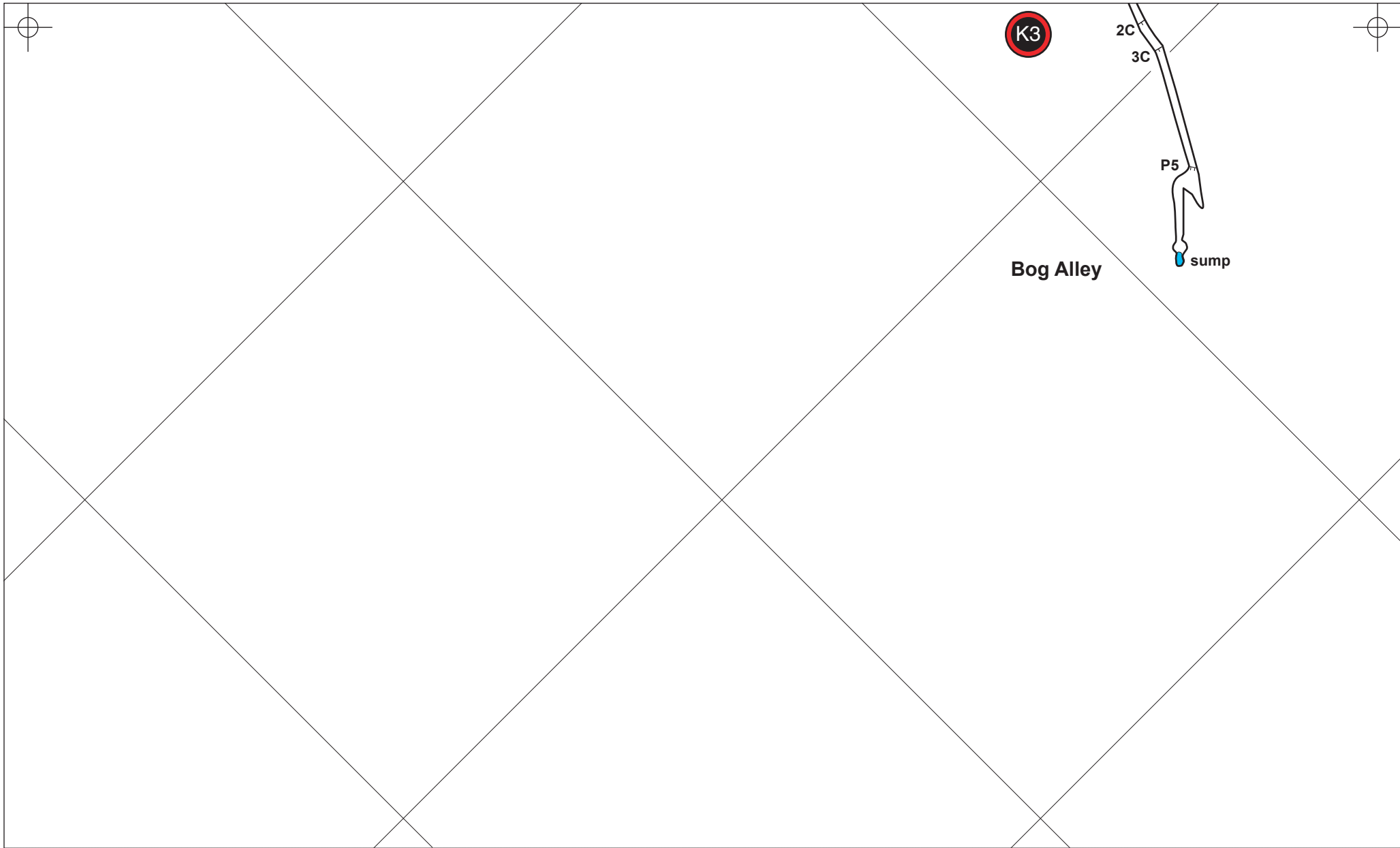




CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

THE NEXT SCENE [east]
 Updated: 11/05

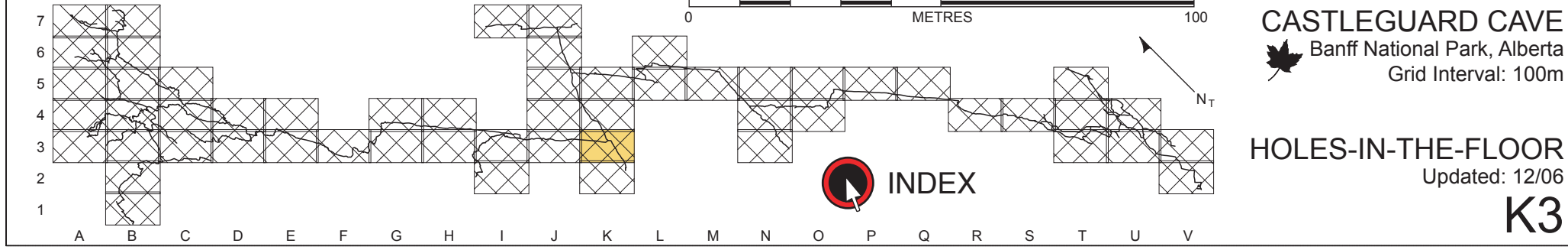
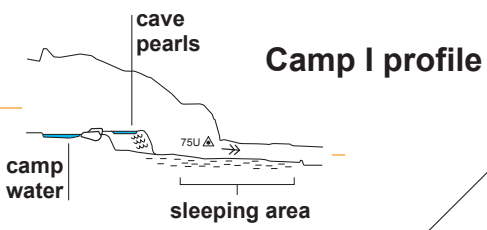
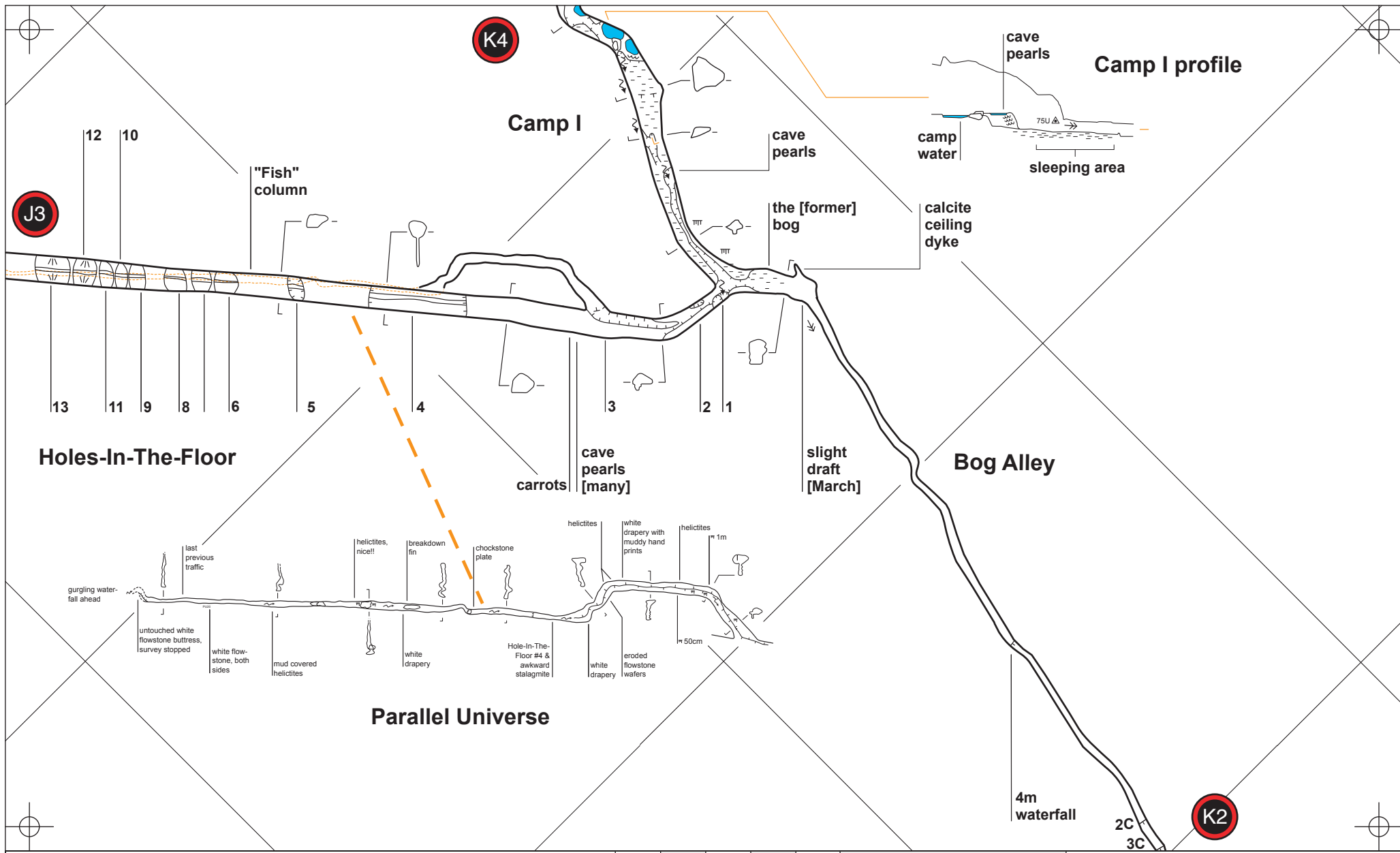
J7

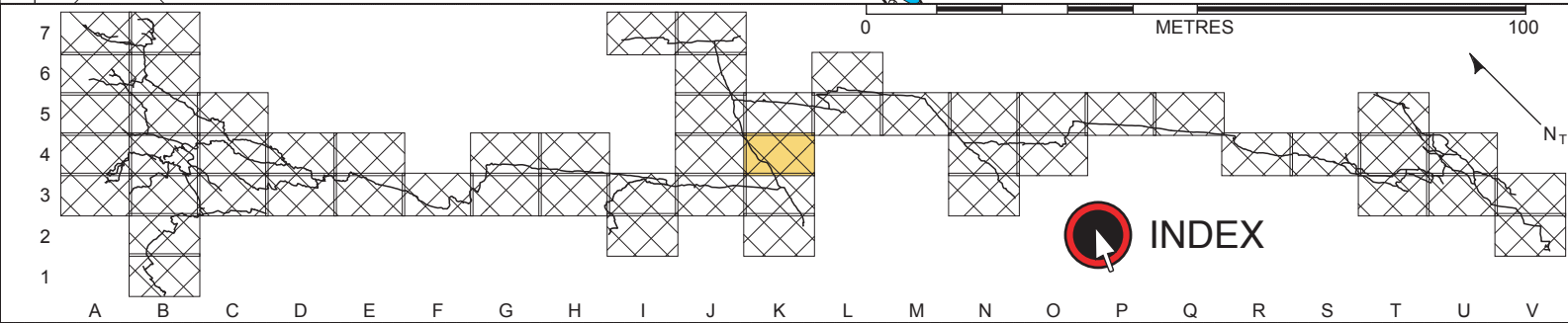
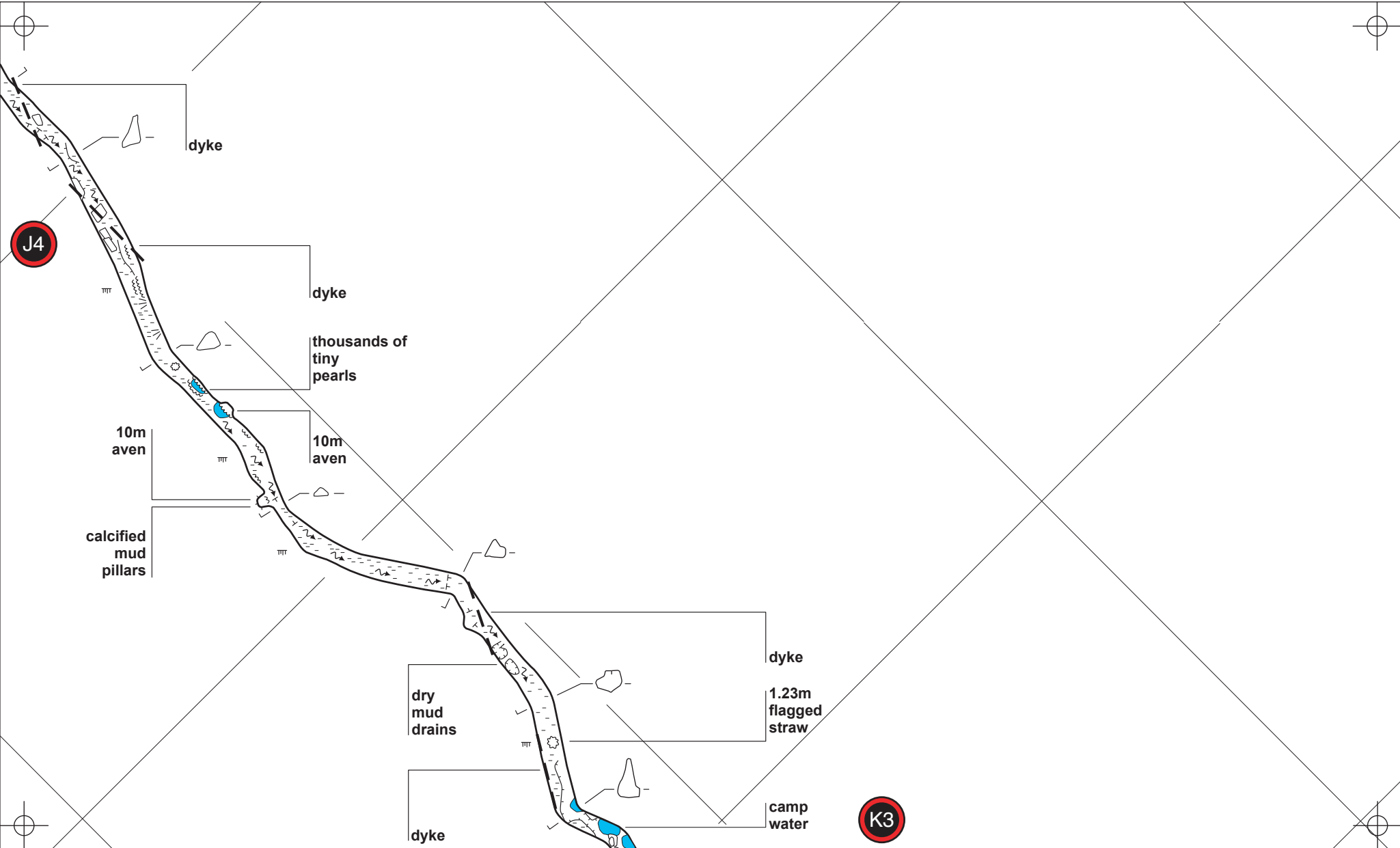


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

BOG ALLEY
 Updated: 11/04

K2

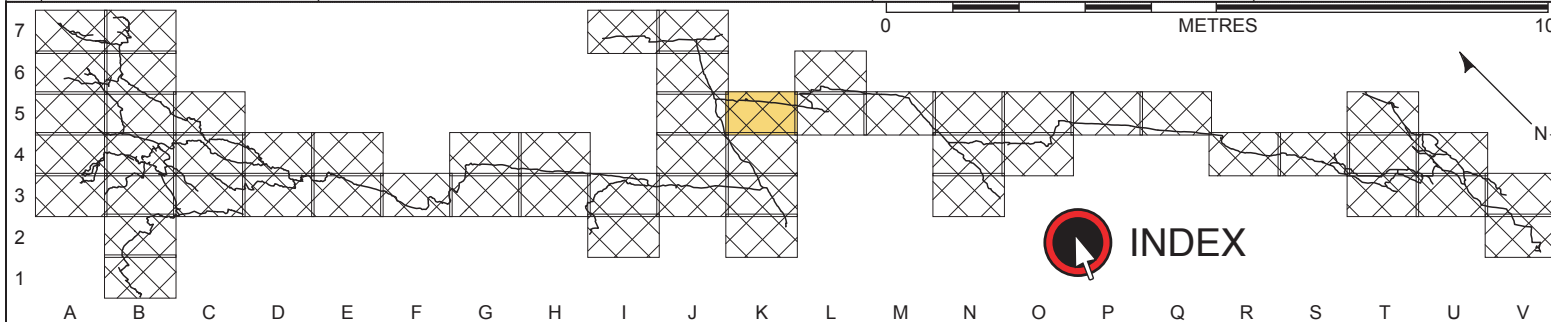
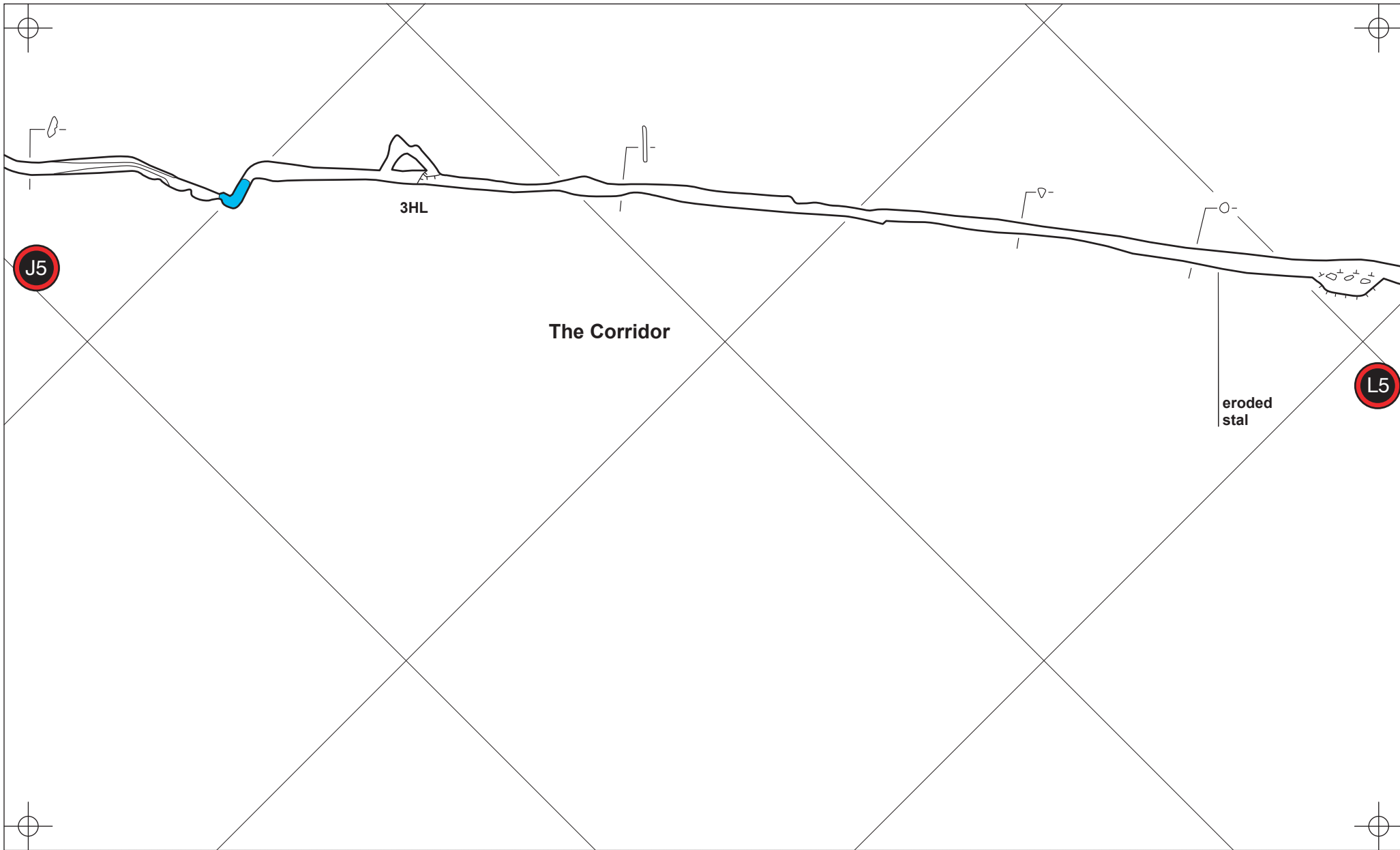




CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

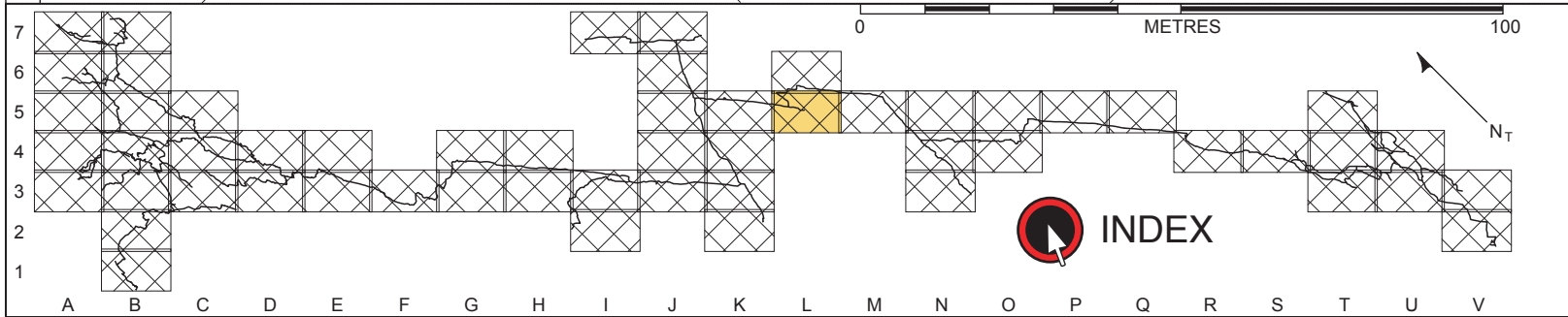
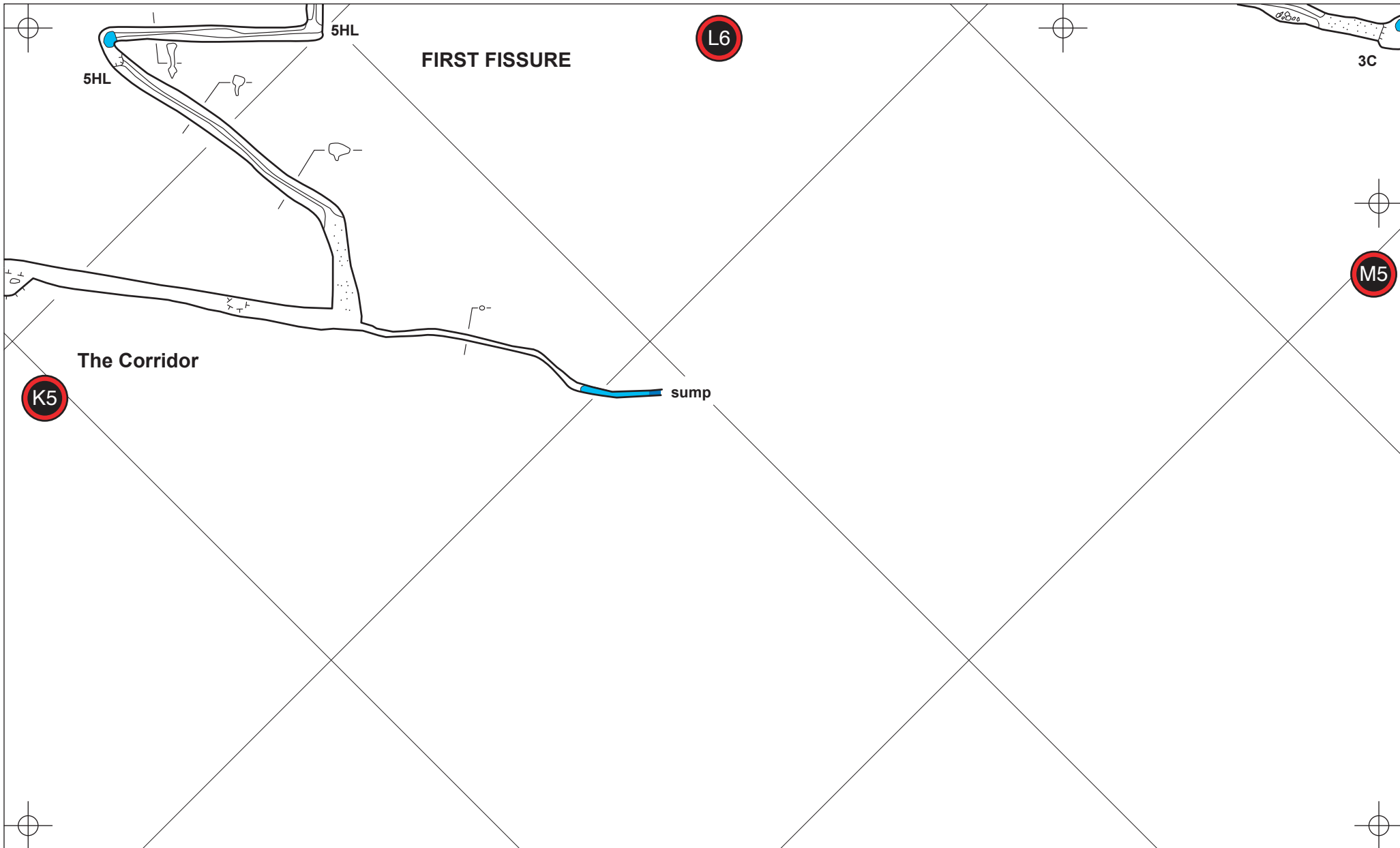
THE GROTTOS
 Updated: 11/05

K4



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

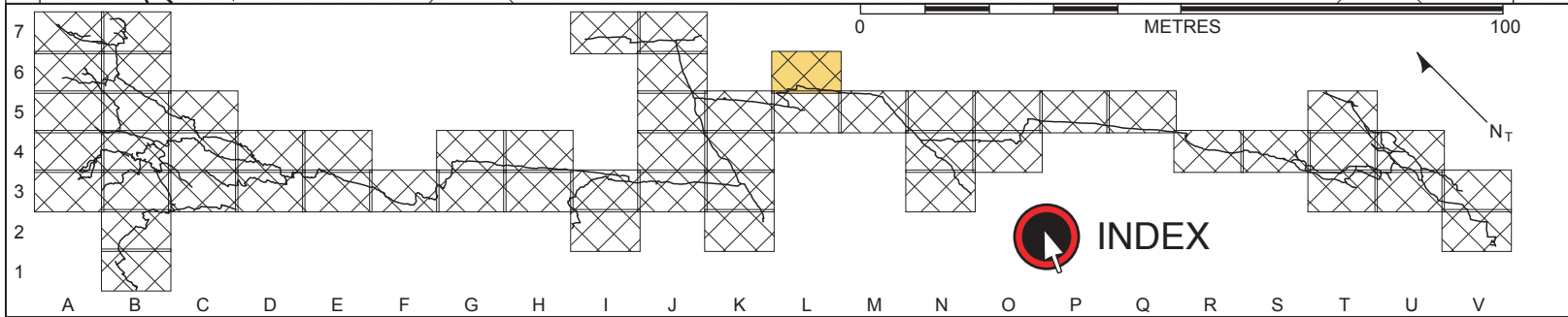
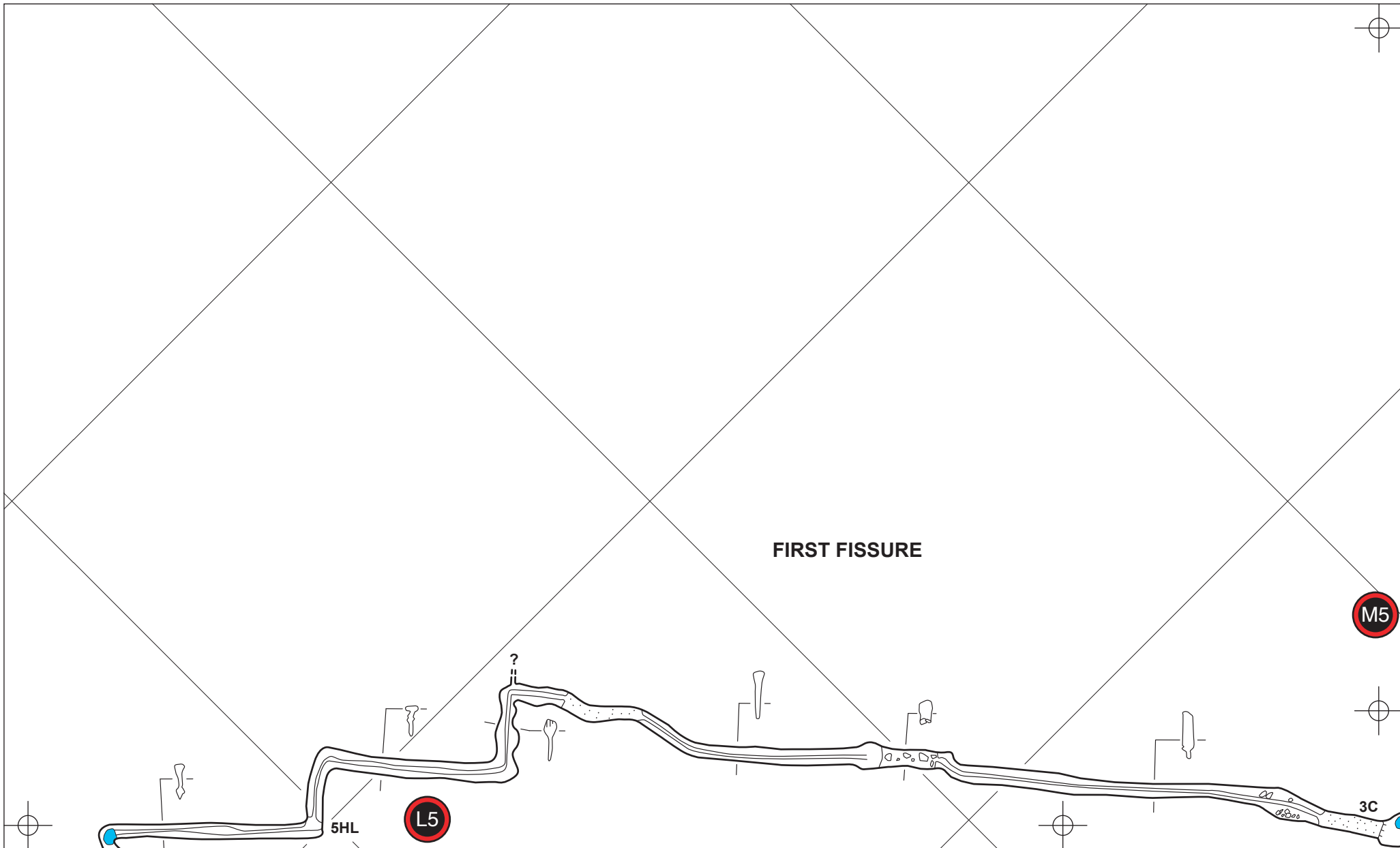
THE CORRIDOR
 Updated: 5/06
K5



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

CORRIDOR SUMP
 Updated: 11/04

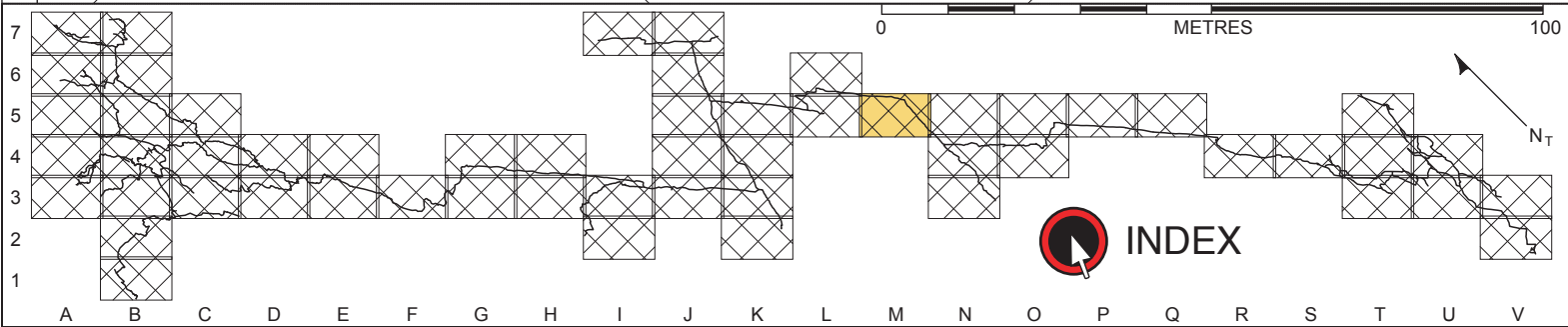
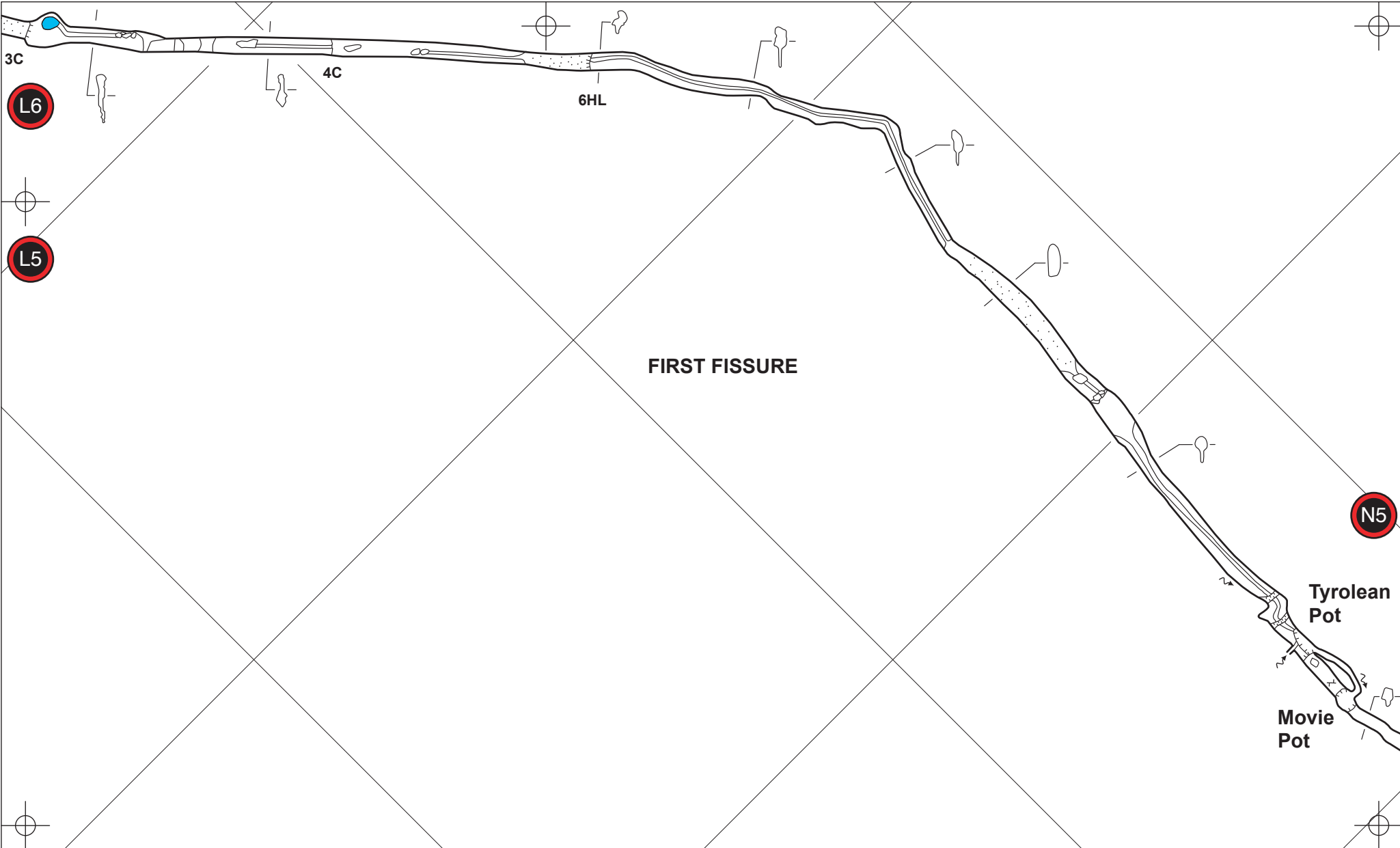
L5



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

FIRST FISSURE
 Updated: 11/04

L6

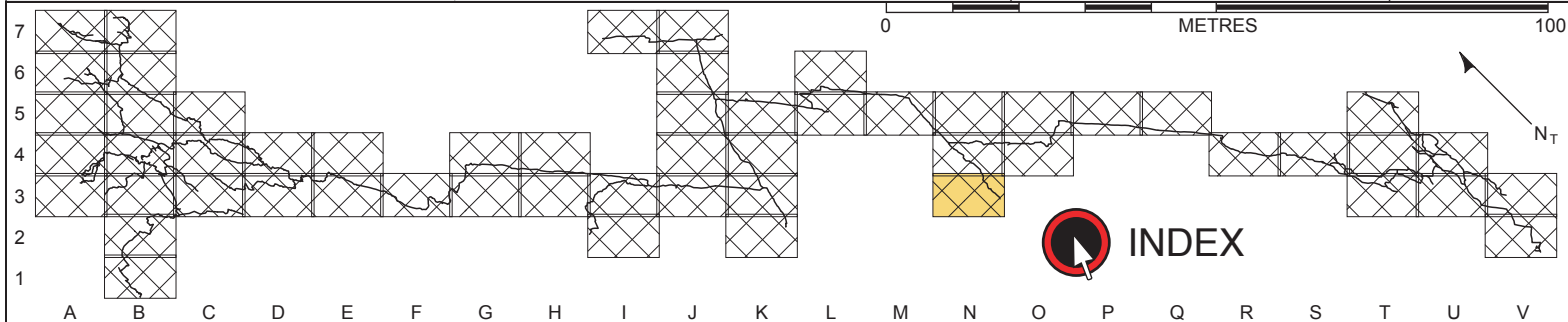
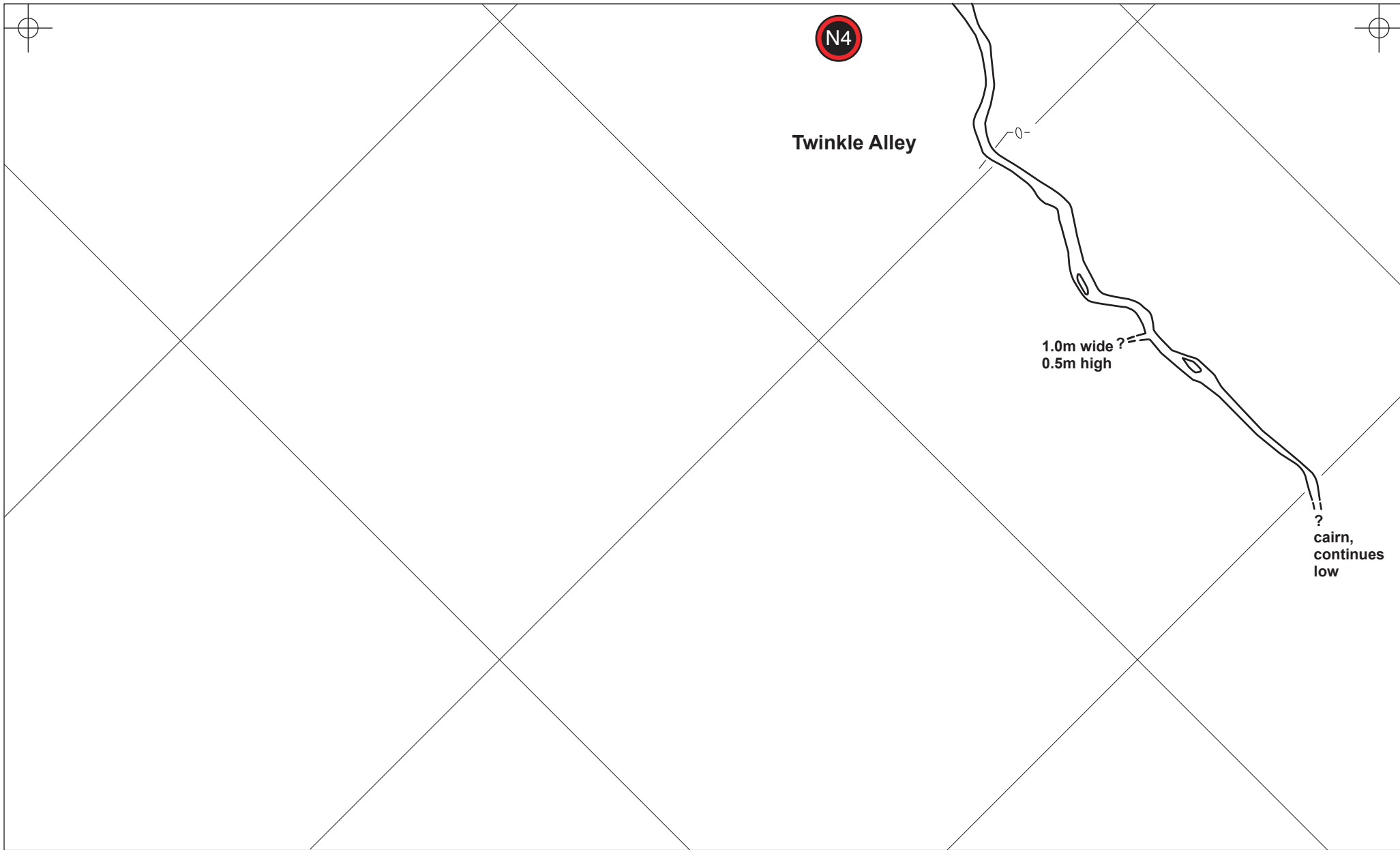


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

MOVIE POT
 Updated: 11/04

M5

INDEX



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

TWINKLE ALLEY
 Updated: 10/04
N3

Mini Holes

N5

FIRST FISSURE

traverse around pit

Waterfall Room

O4

silt choke

Twinkle Alley

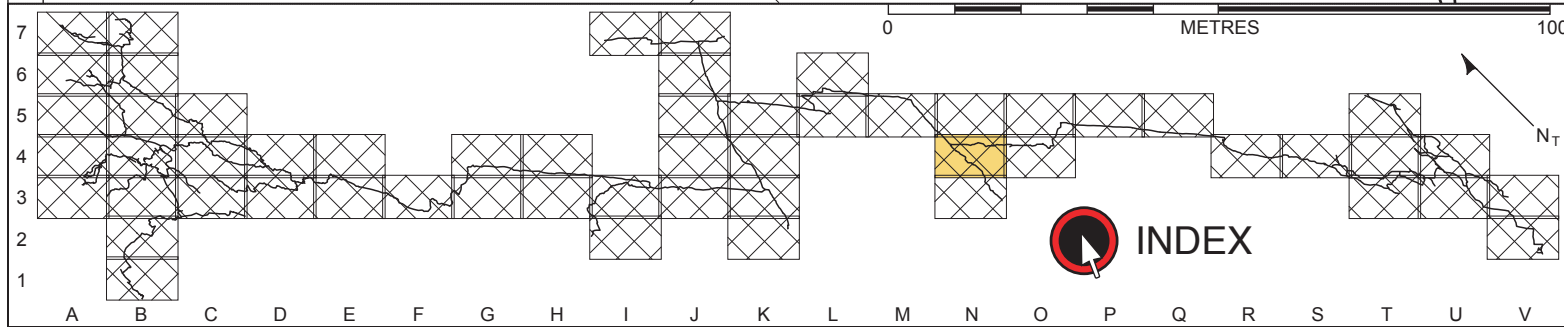
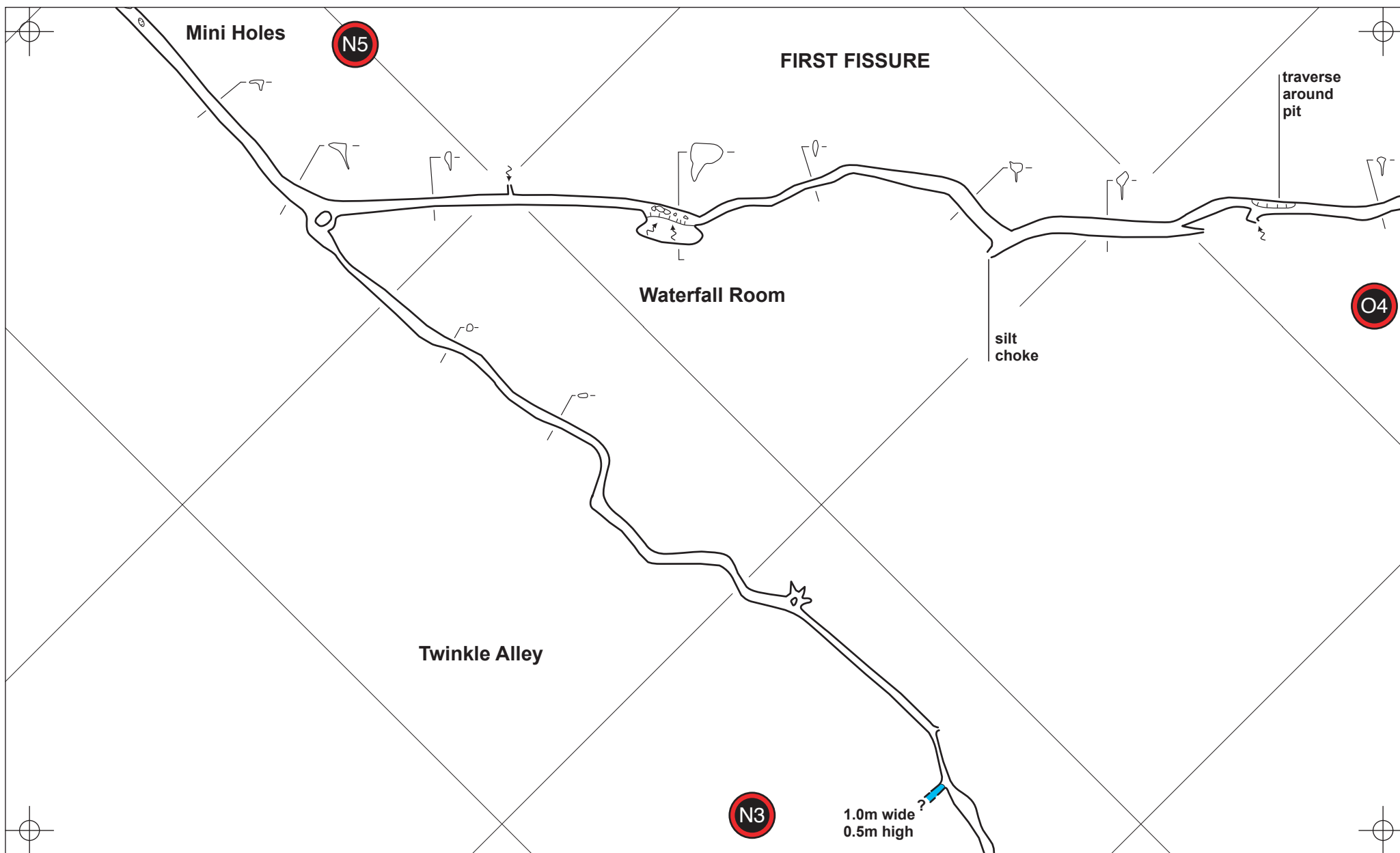
N3

1.0m wide
0.5m high

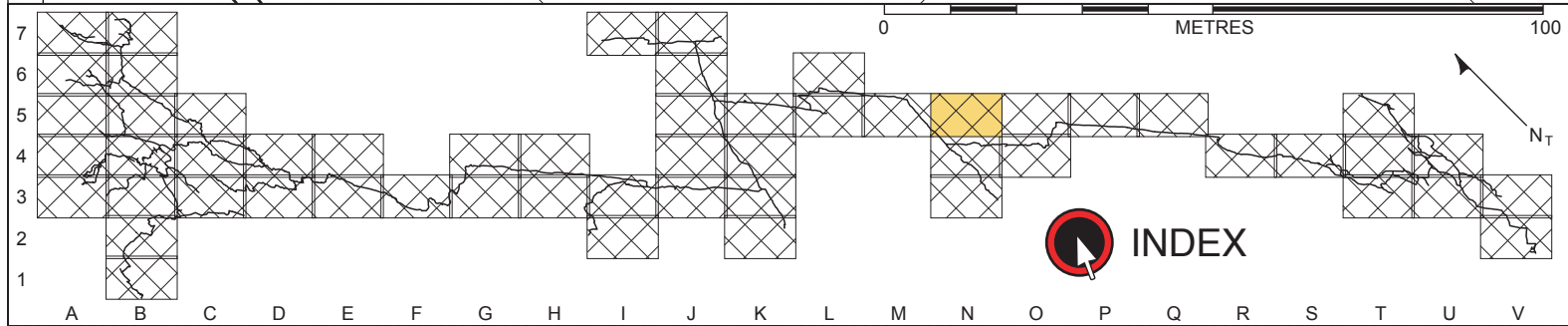
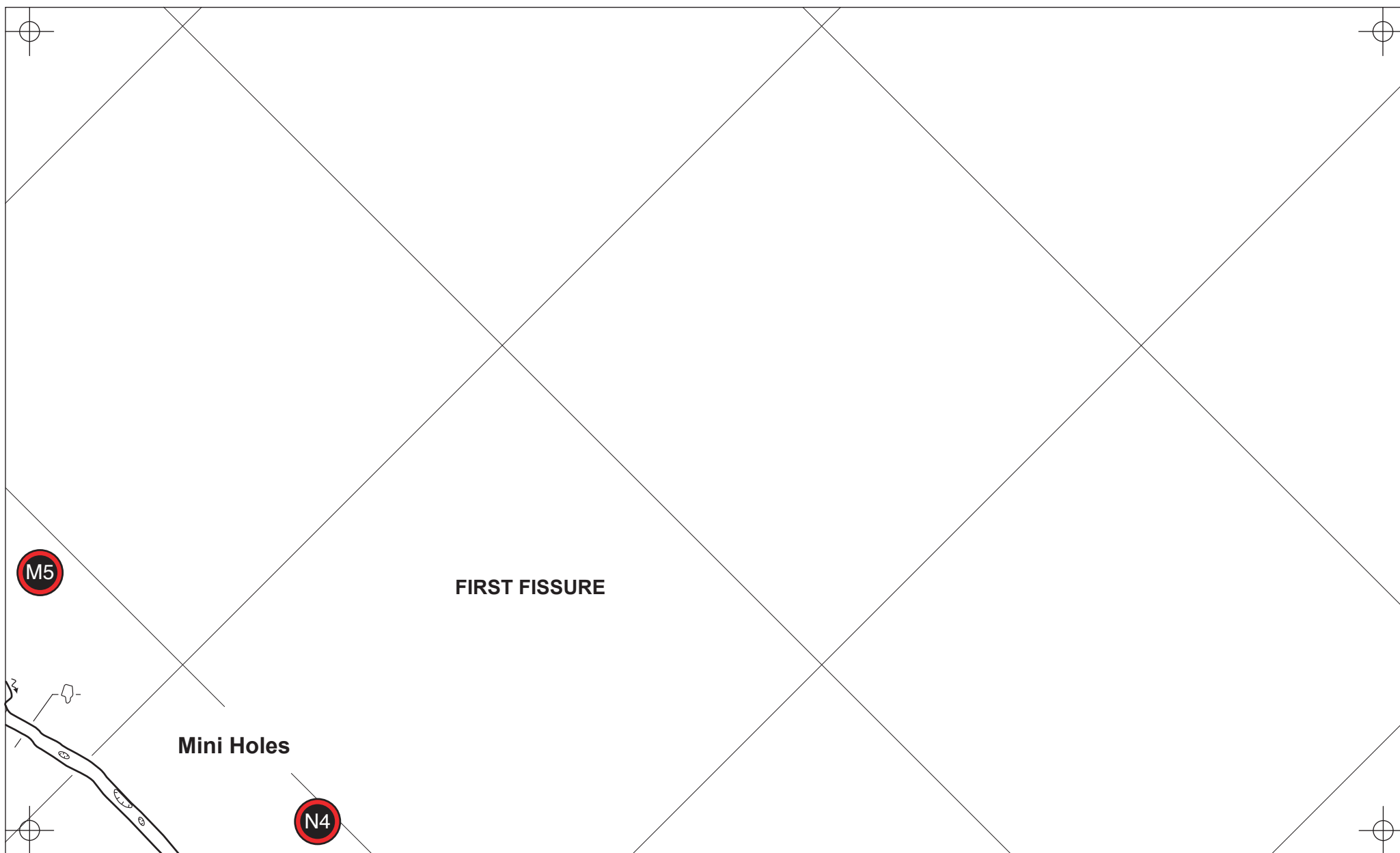
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

WATERFALL ROOM
Updated: 11/04

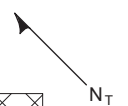
N4



INDEX

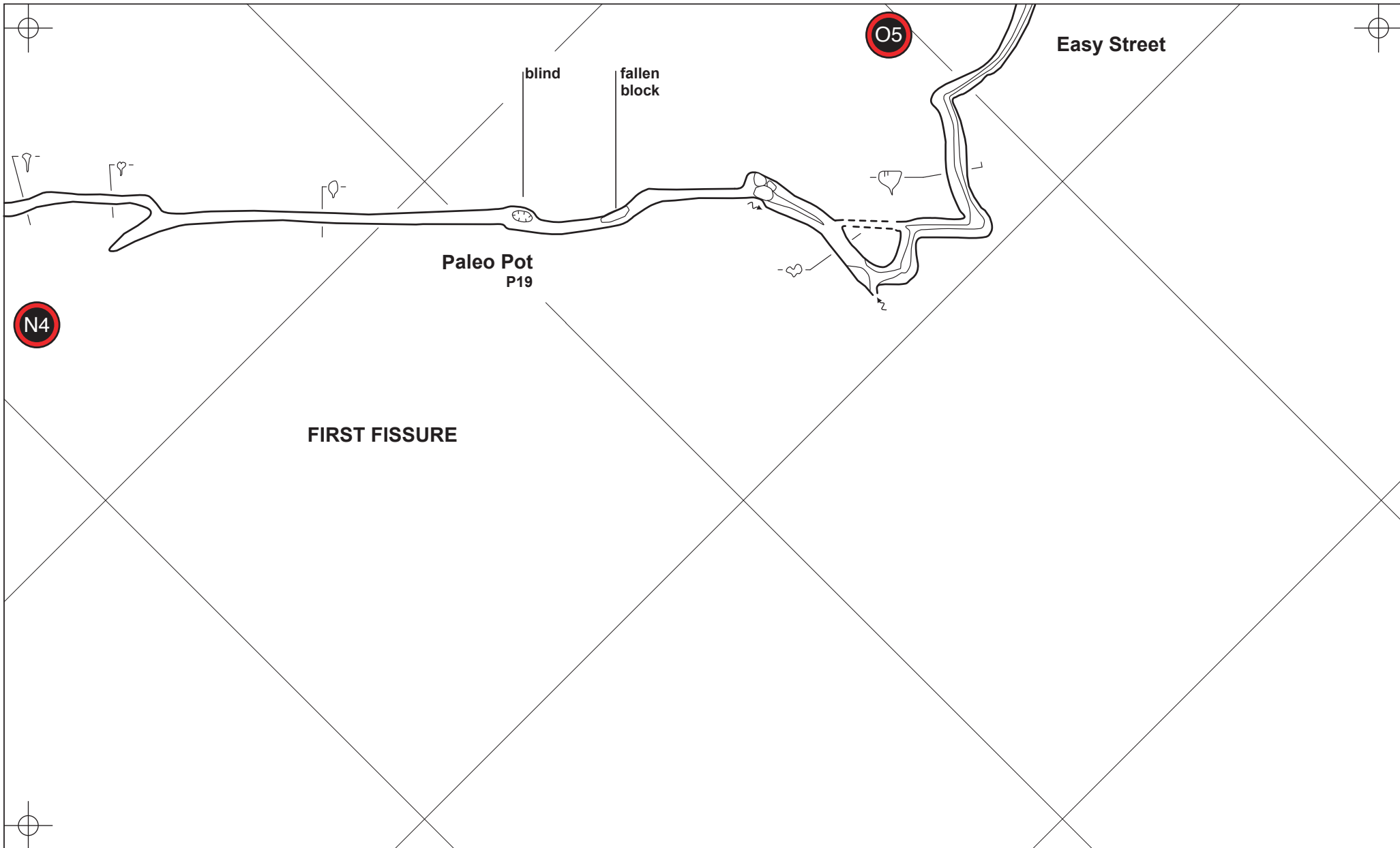


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m



MINI HOLES
 Updated: 10/04

N5



N4

O5

Easy Street

Paleo Pot
P19

blind

fallen
block

FIRST FISSURE

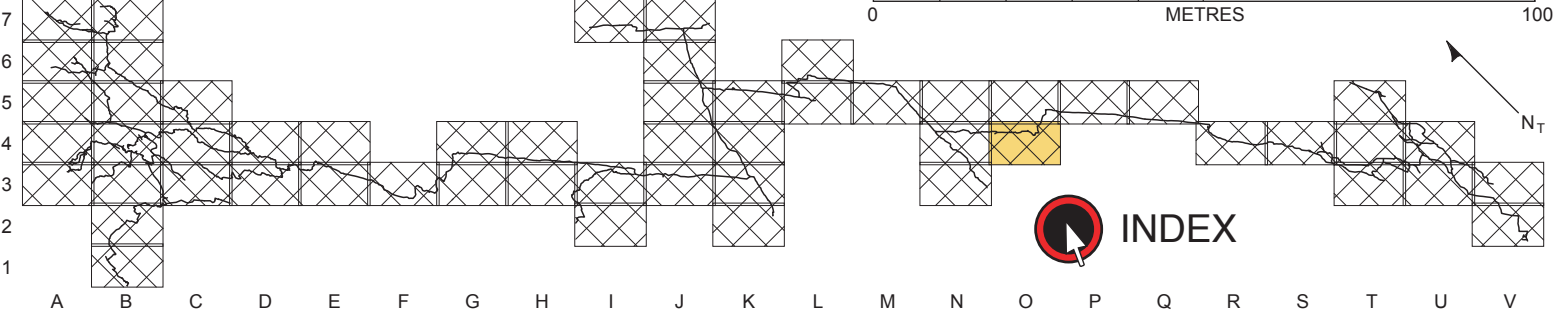
0 METRES 100

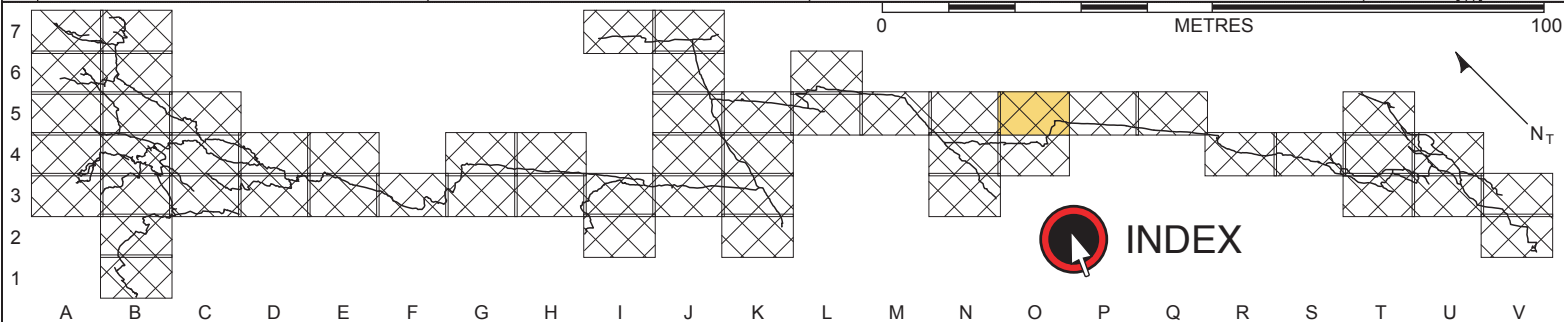
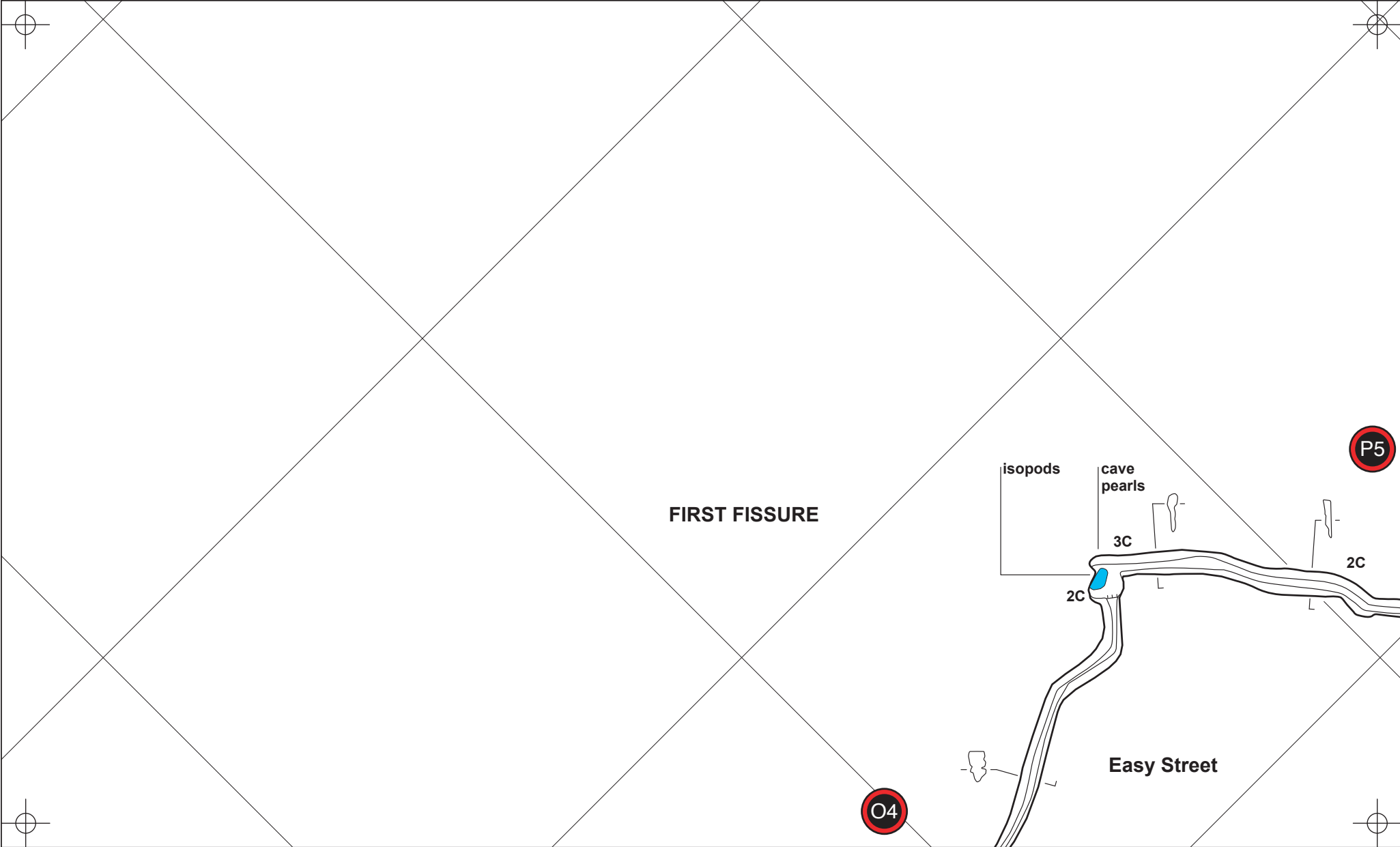
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

PALEO POT
Updated: 10/04

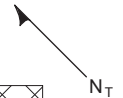
O4

INDEX



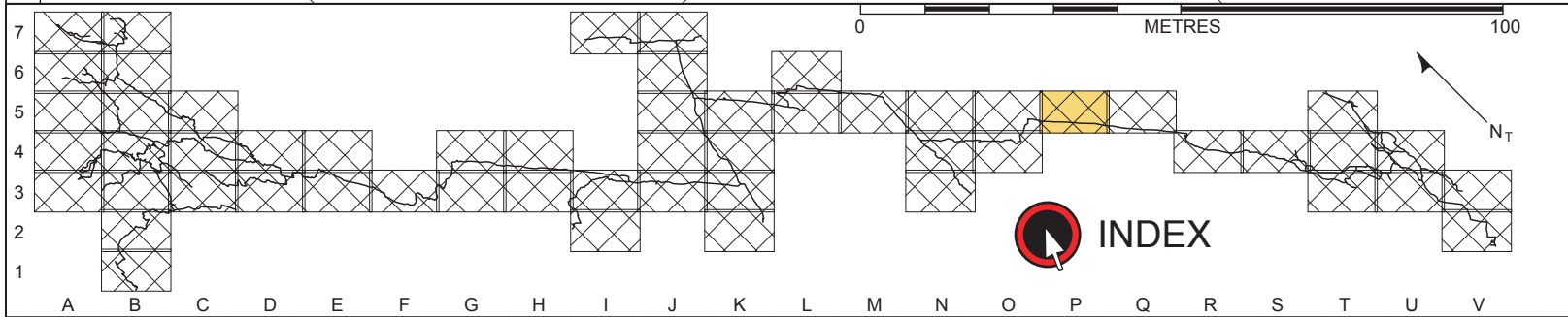
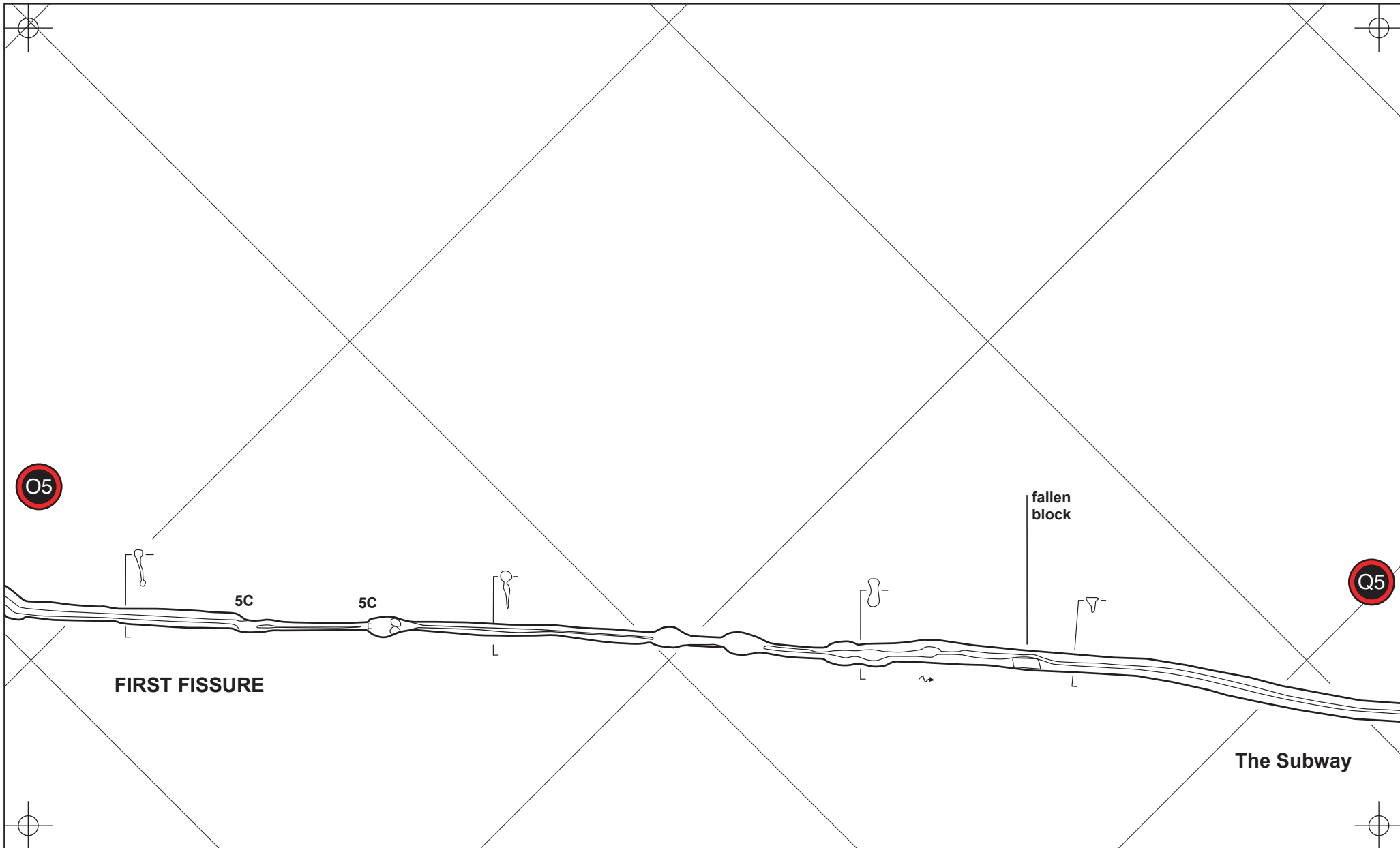


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m



EASY STREET
 Updated: 11/05

O5

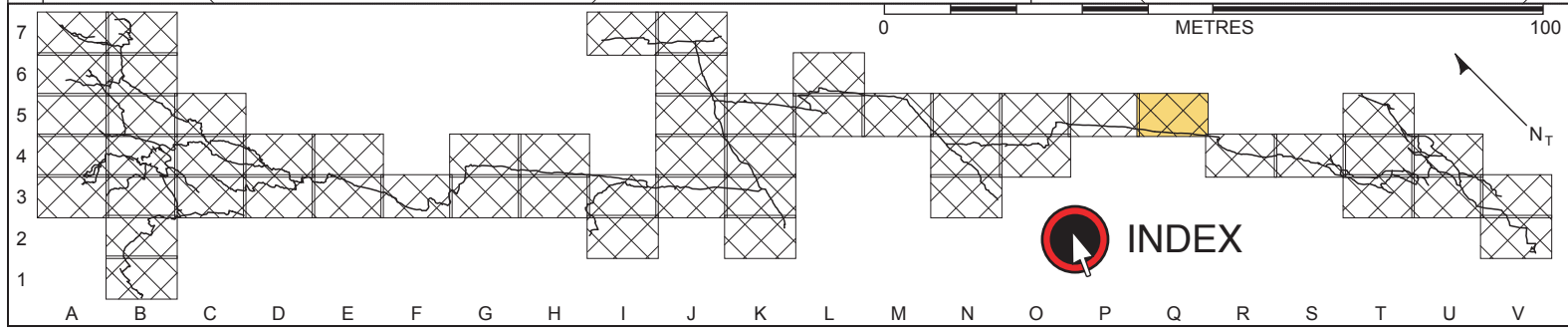
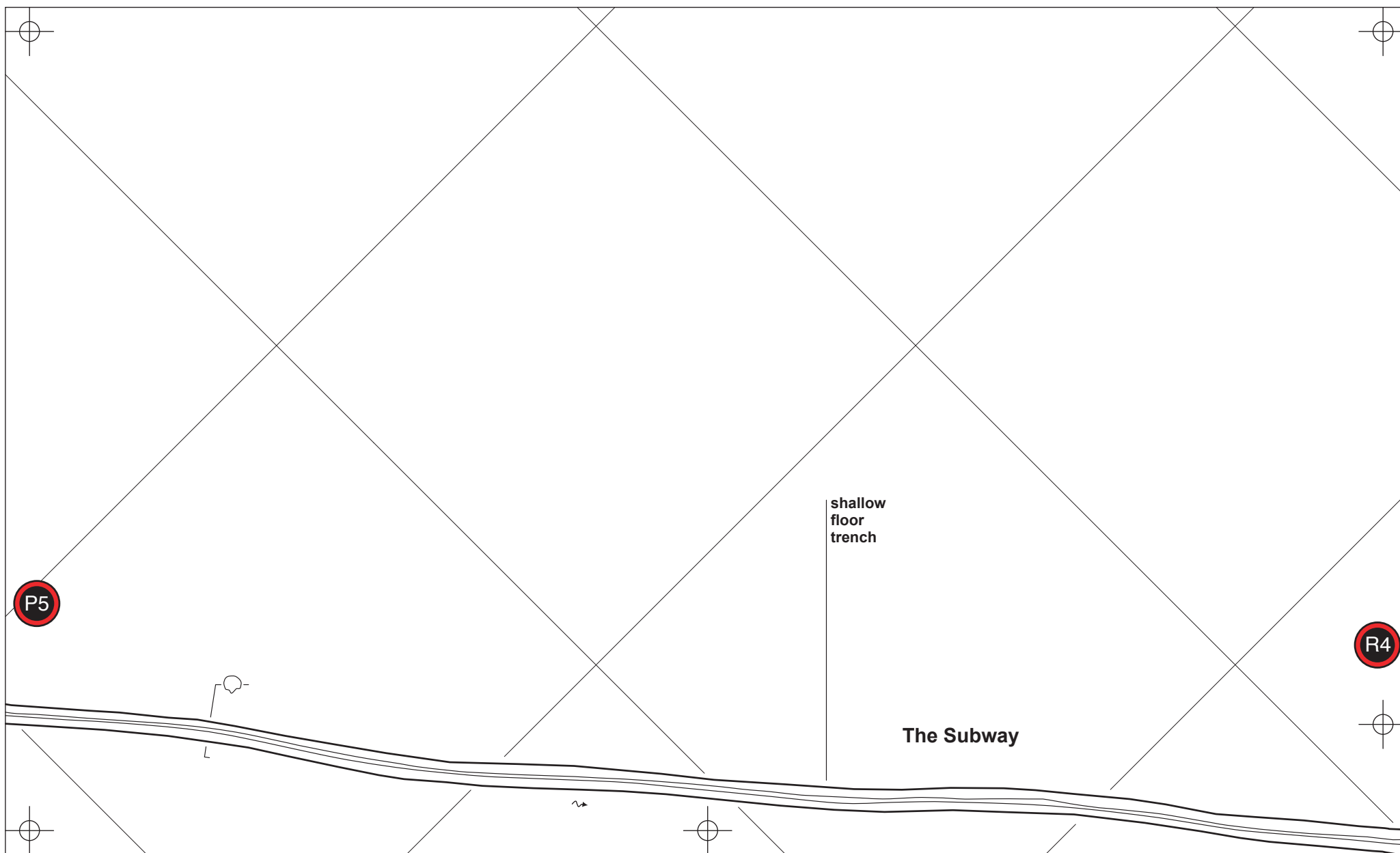


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

FIRST FISSURE (Start)
 Updated: 10/04

P5



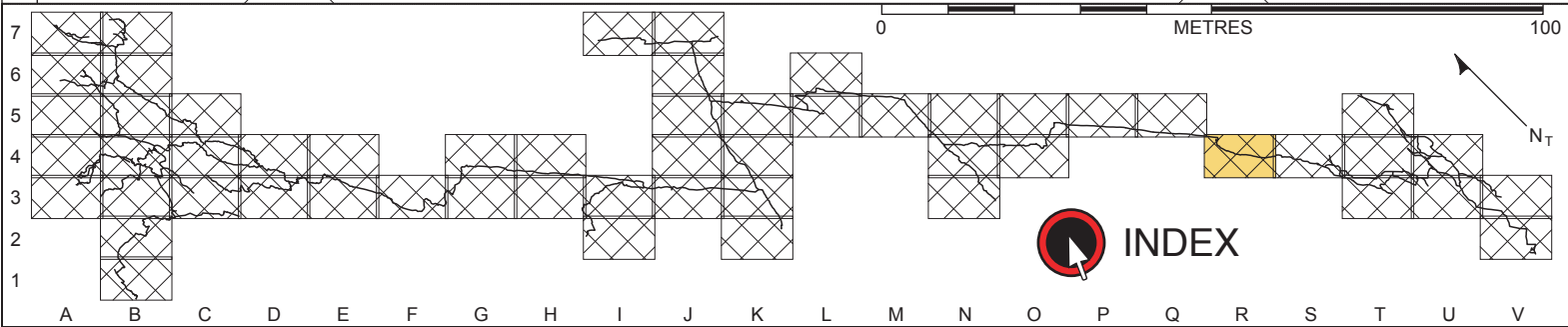
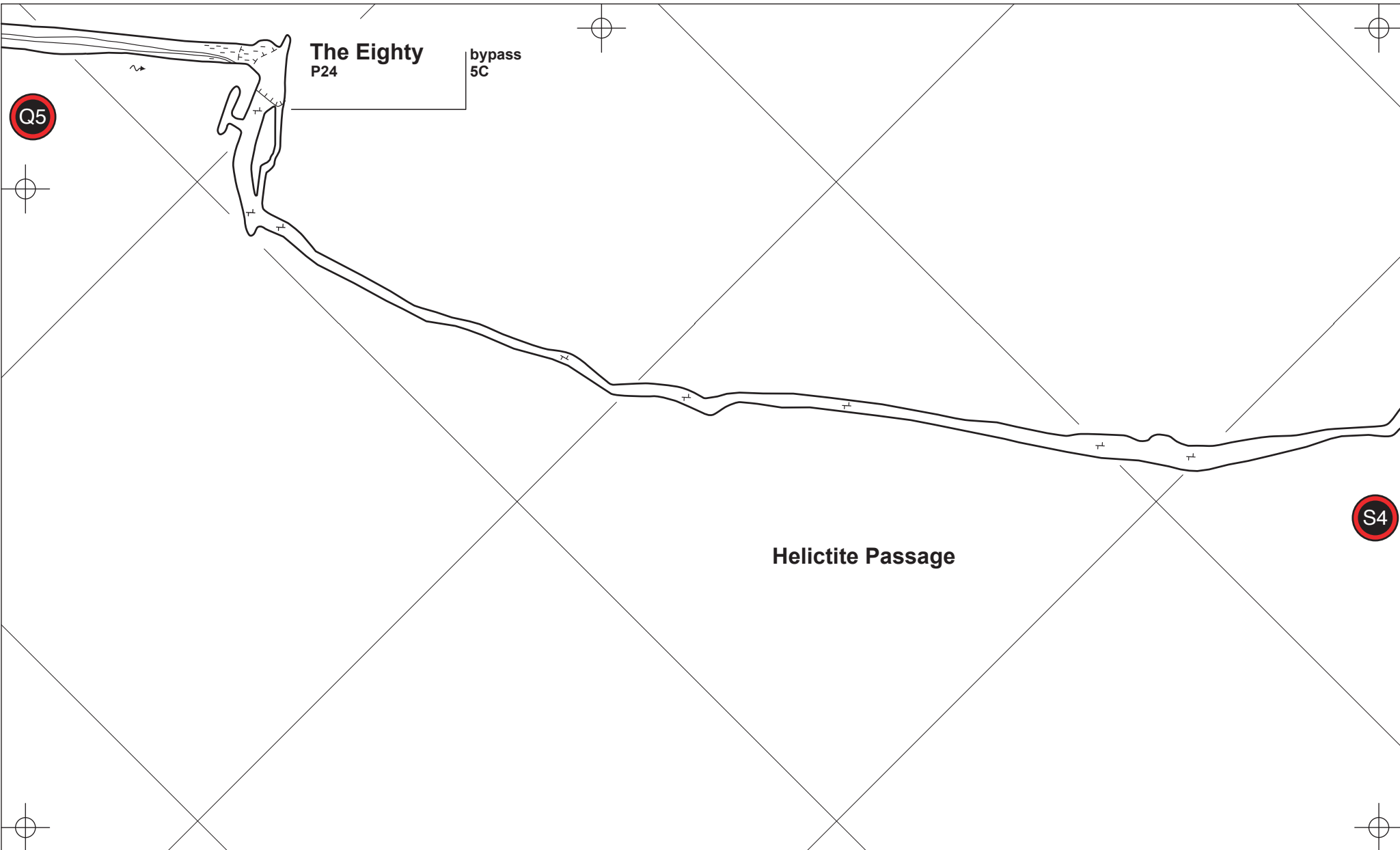


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

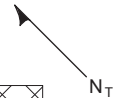
THE SUBWAY
 Updated: 10/04

Q5

INDEX

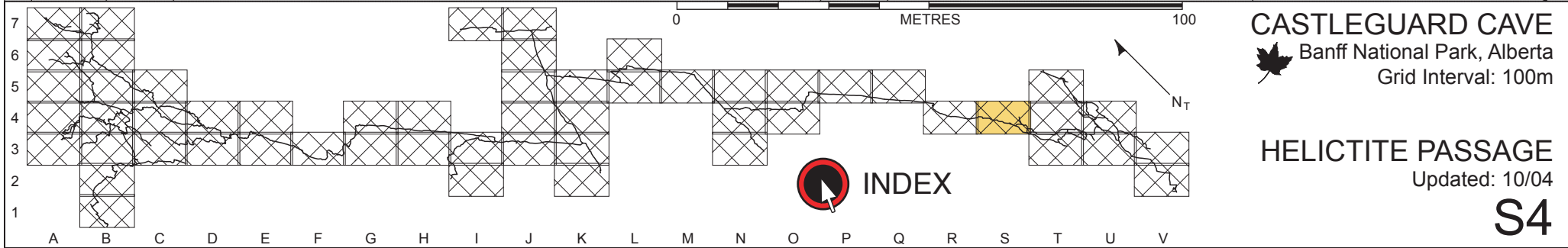
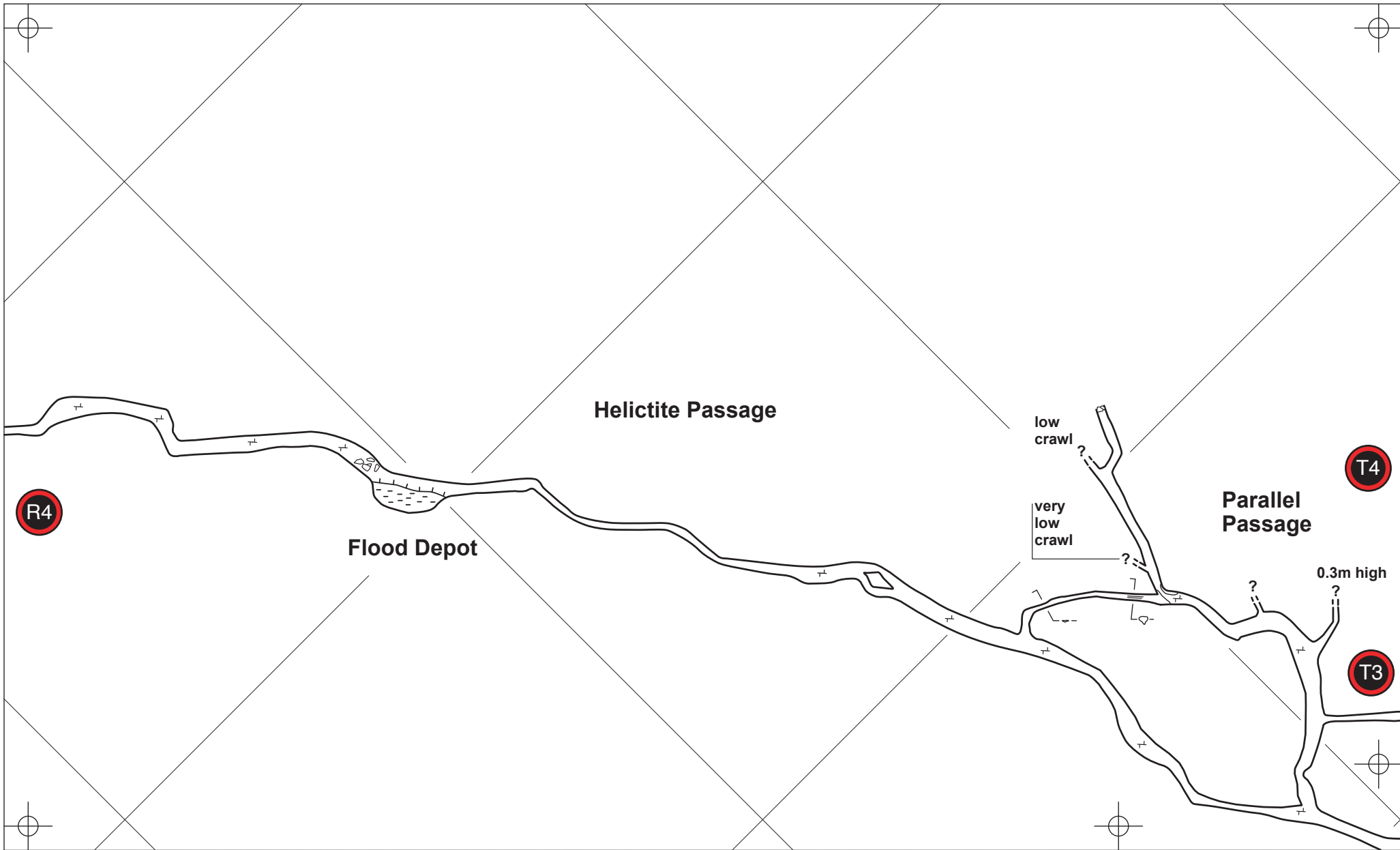


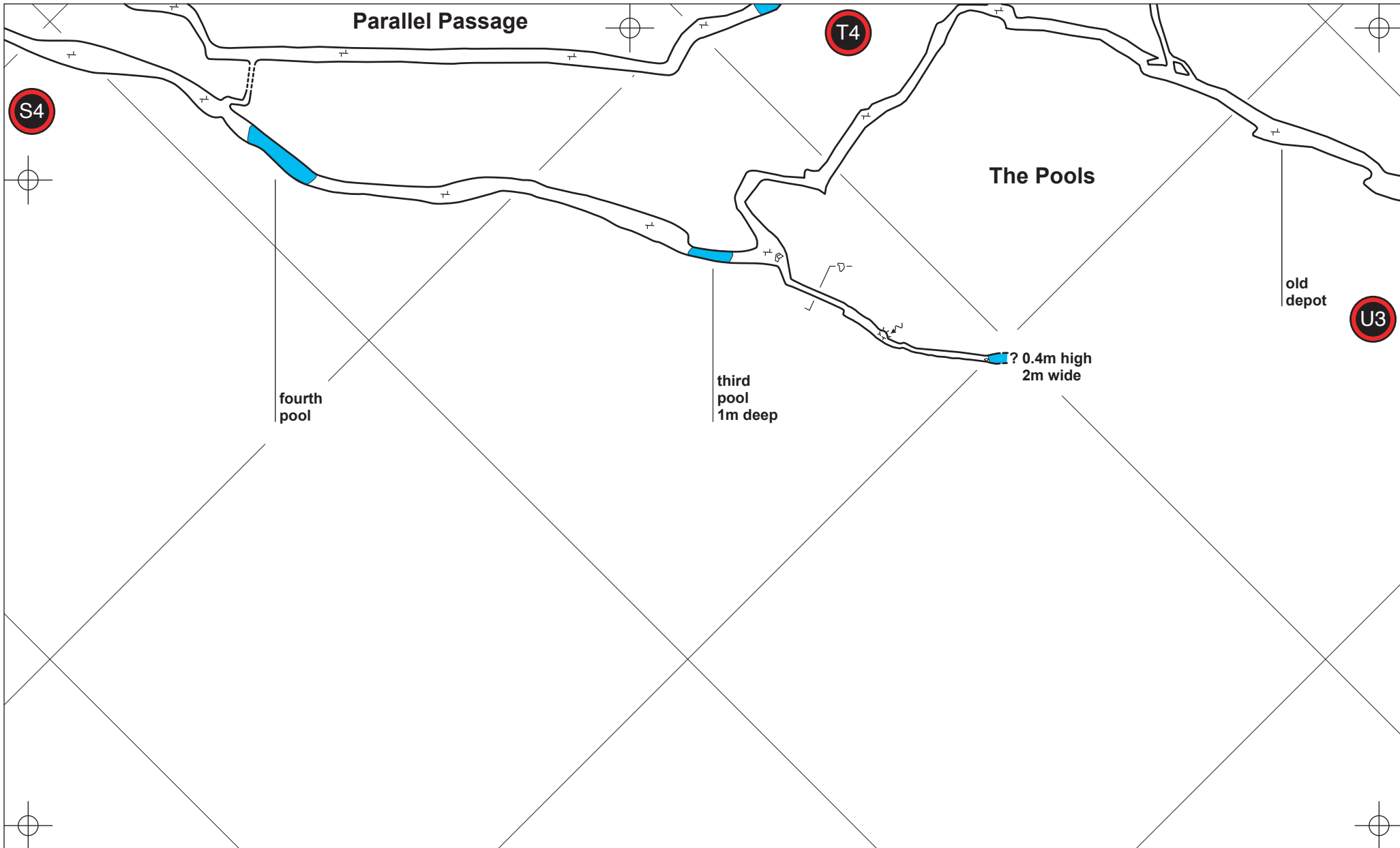
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m



THE EIGHTY
Updated: 10/04

R4





S4

T4

U3

Parallel Passage

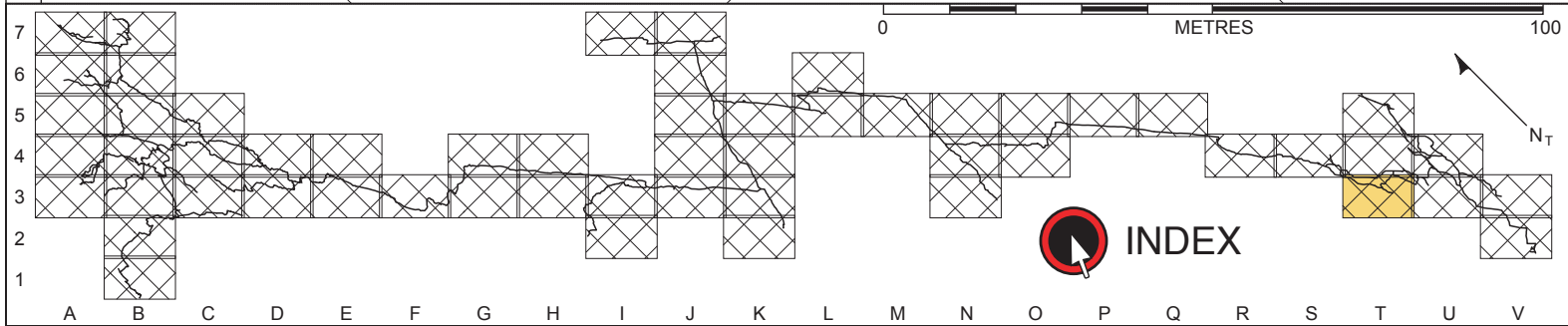
The Pools

old depot

fourth pool

third pool
1m deep

? 0.4m high
2m wide



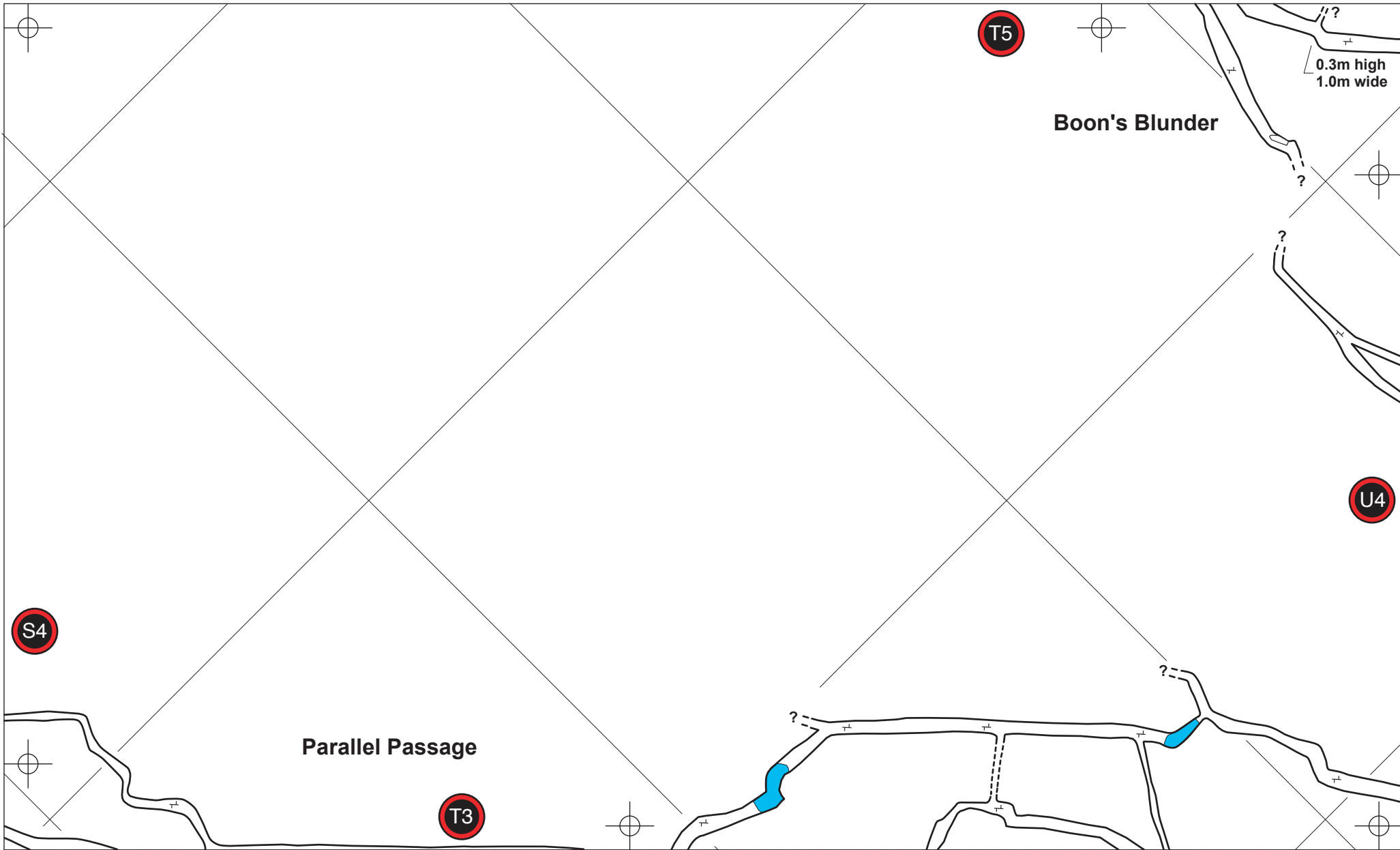
0 METRES 100

CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

INDEX

THE POOLS
Updated: 11/04

T3



0.3m high
1.0m wide

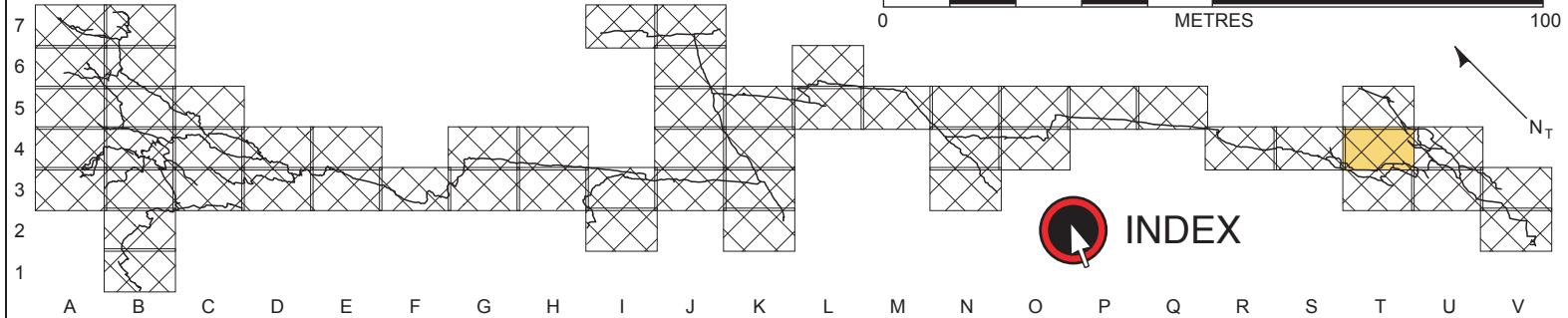
Boon's Blunder

Parallel Passage

0 METRES 100

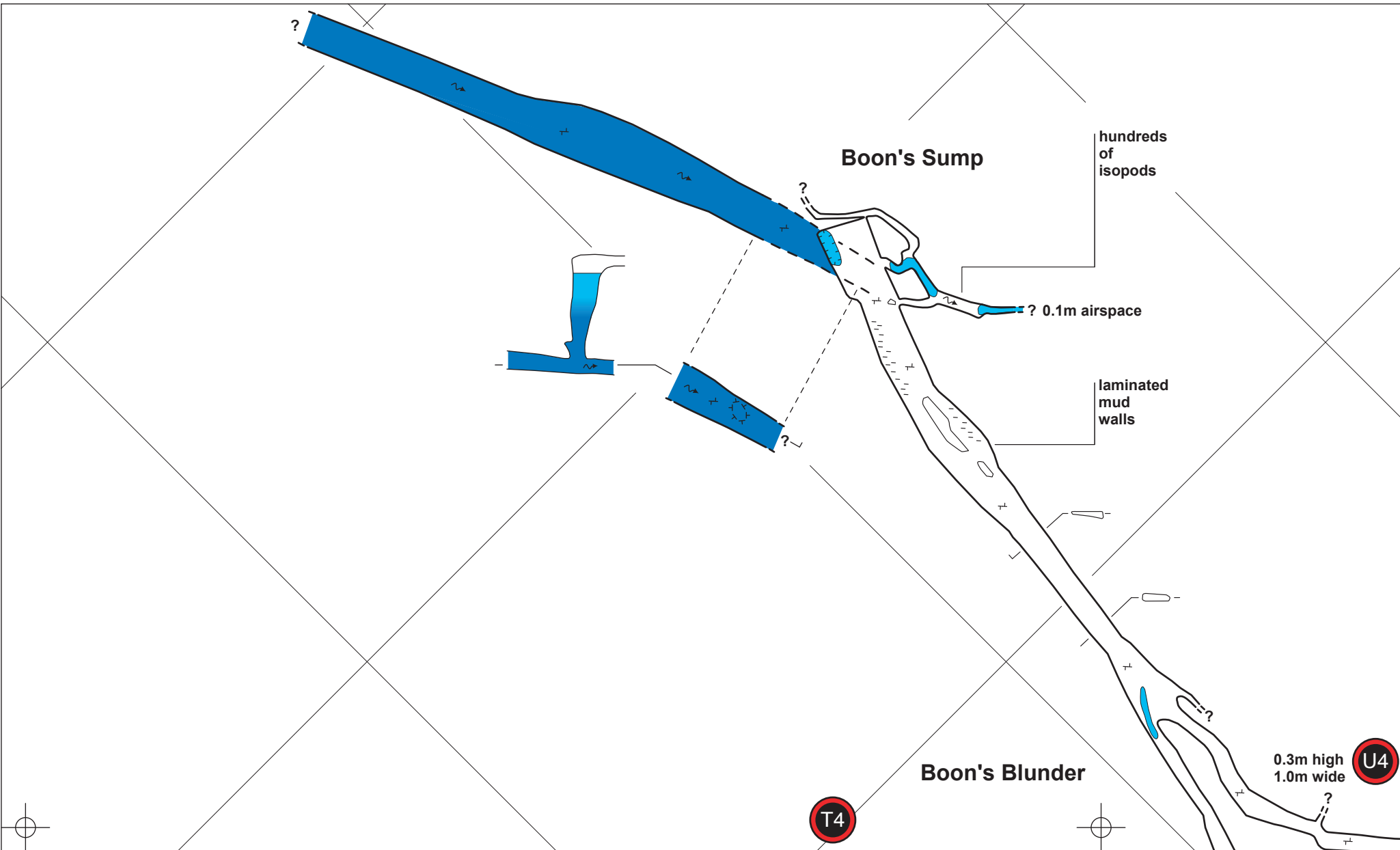
CASTLEGUARD CAVE
Banff National Park, Alberta
Grid Interval: 100m

PARALLEL PASSAGE
Updated: 11/04

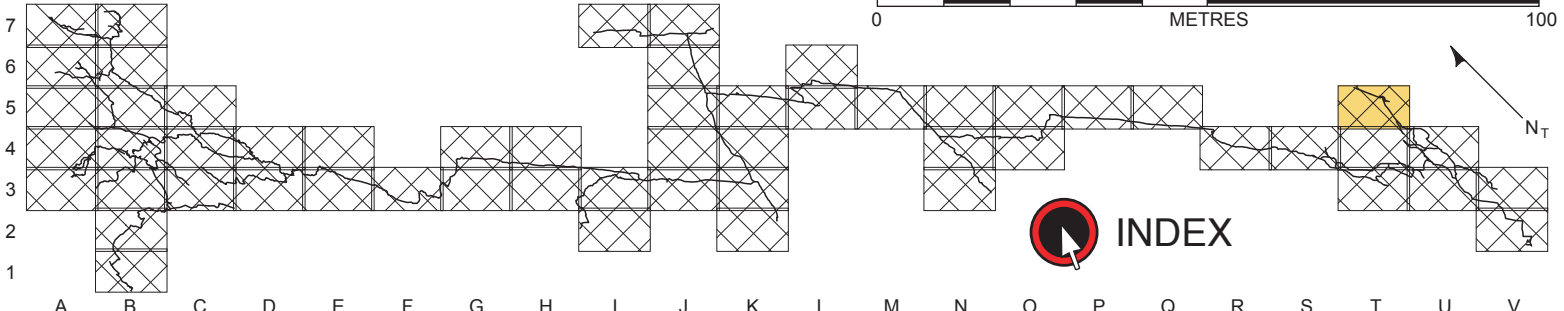


INDEX

T4



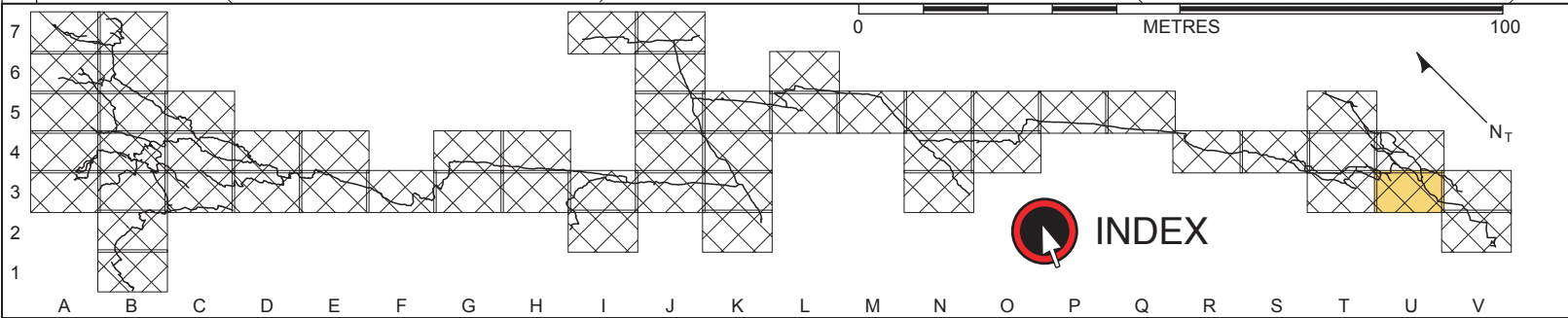
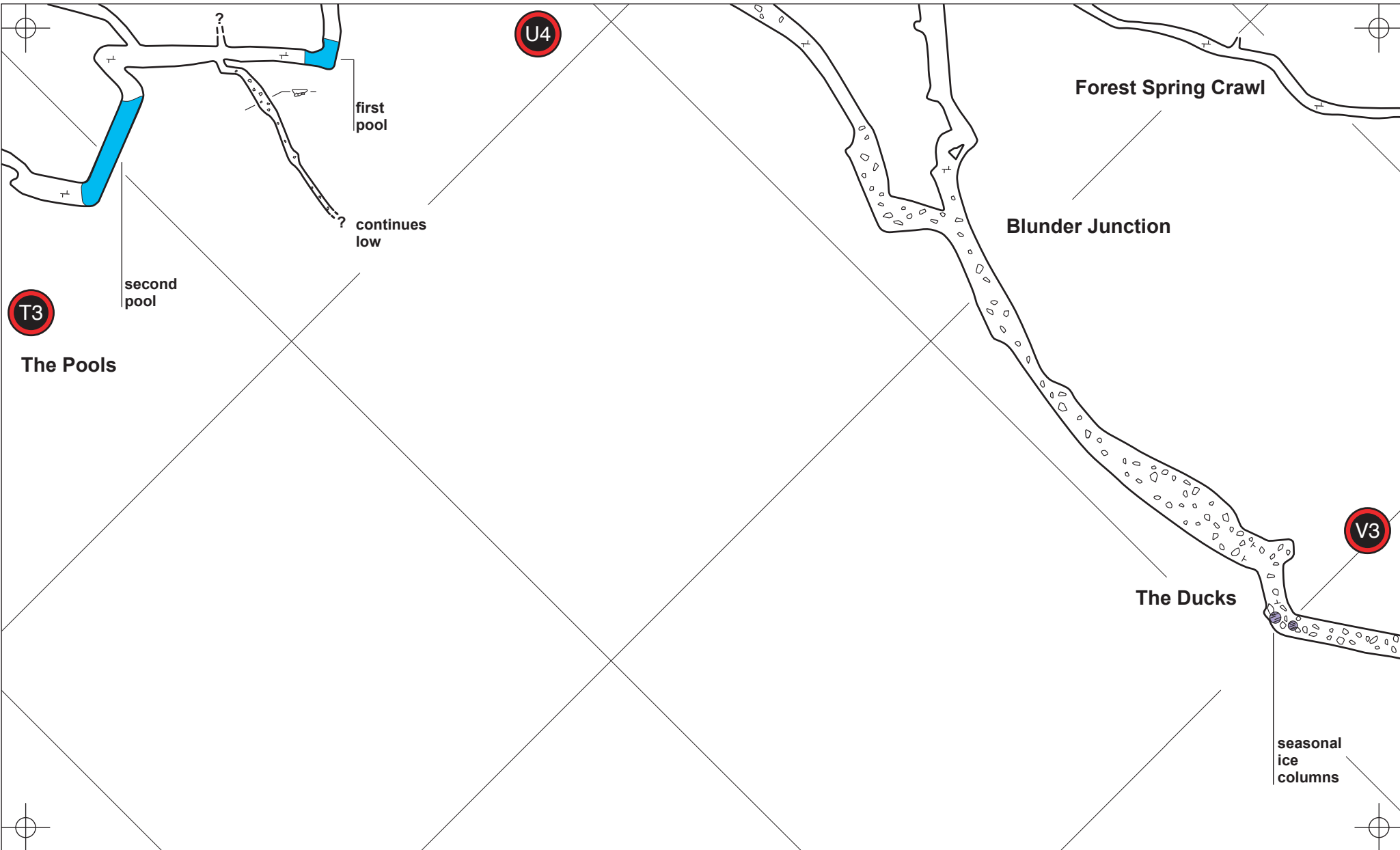
0 METRES 100



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

BOON'S SUMP
 Updated: 11/04

T5

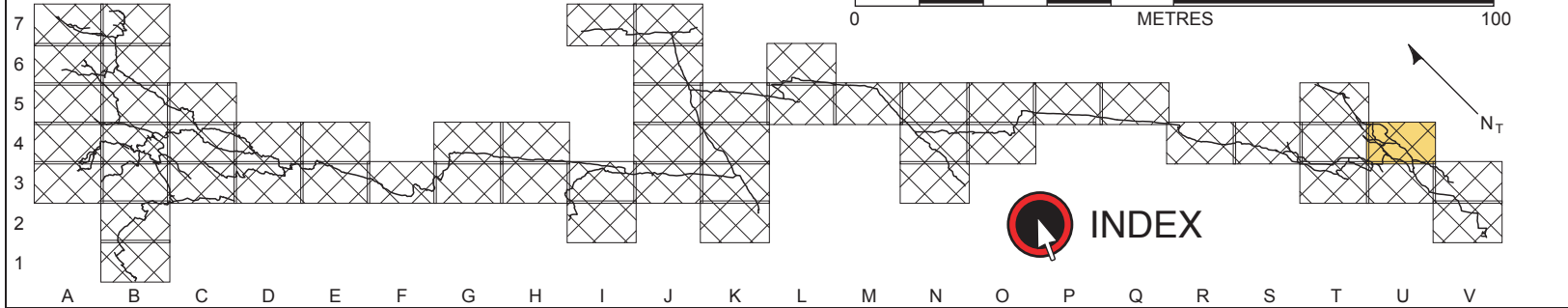
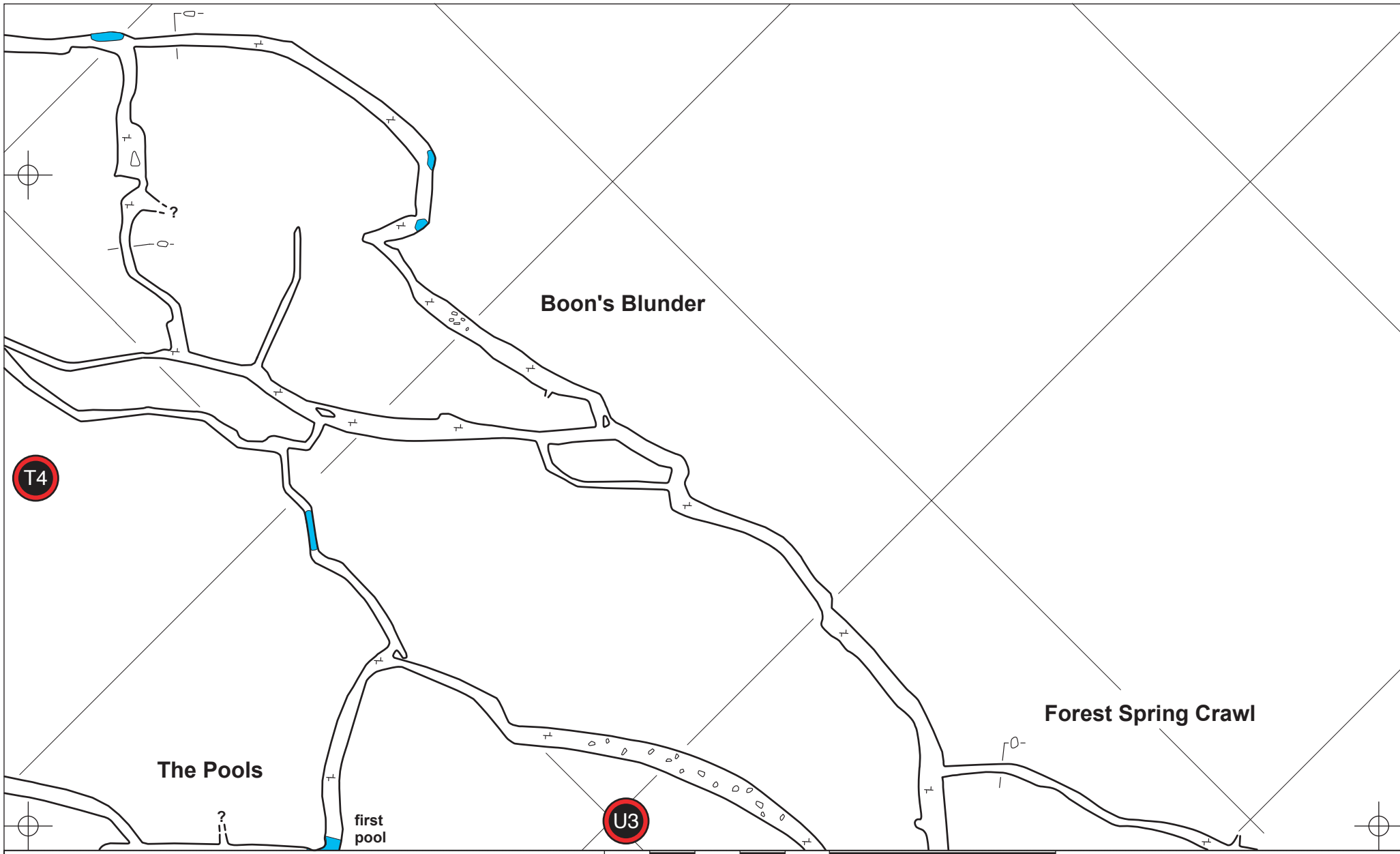


CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

BLUNDER JUNCTION
 Updated: 5/06



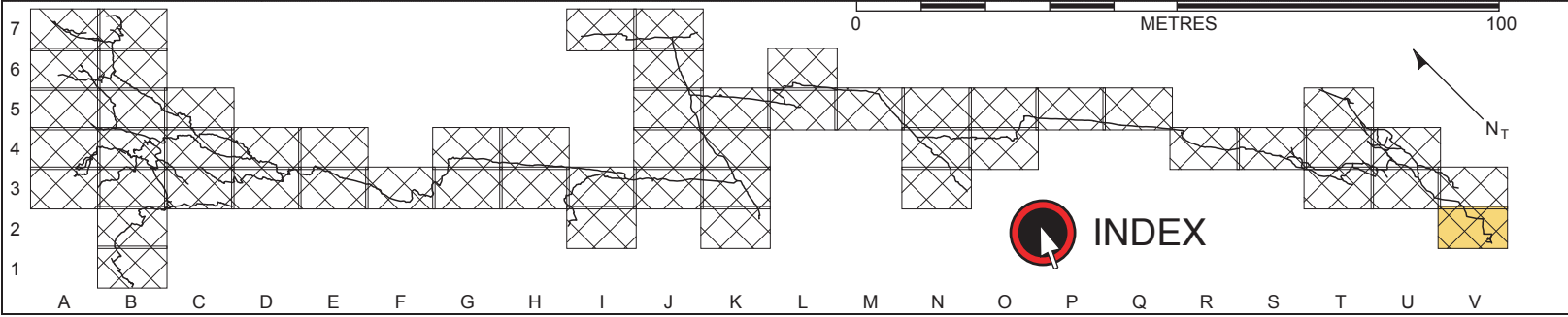
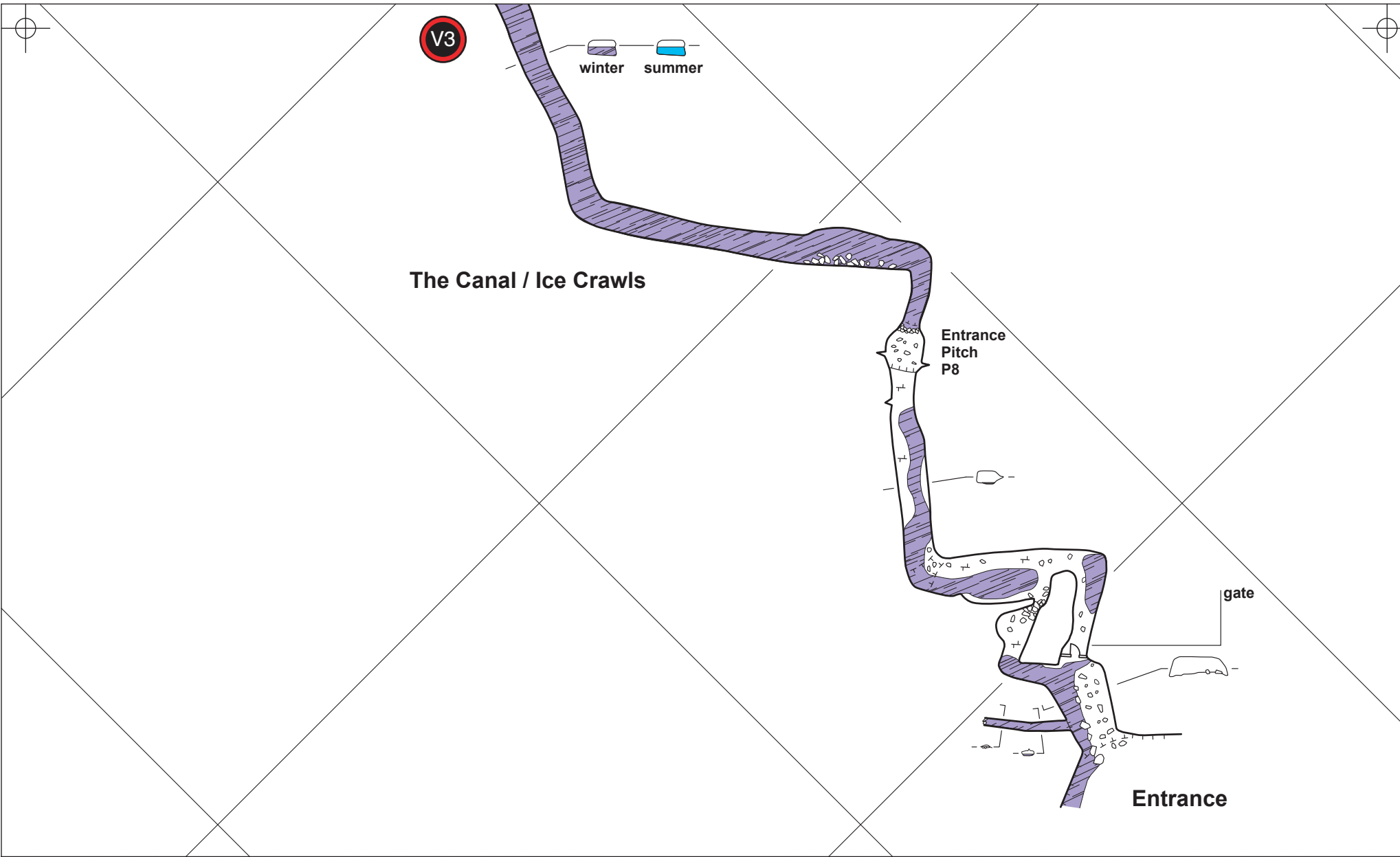
U3



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

BOON'S BLUNDER
 Updated: 11/04

U4



CASTLEGUARD CAVE
 Banff National Park, Alberta
 Grid Interval: 100m

ENTRANCE
 Updated: 5/06
V2

Forest Spring Crawl

0.4m wide
0.6m high

goes
400m to
Forest
Spring

U3

summer
inlet

The Canal / Ice Crawls

winter summer

V2

METRES

100

CASTLEGUARD CAVE

Banff National Park, Alberta
Grid Interval: 100m

CANAL / ICE CRAWLS

Updated: 11/04

V3

INDEX

