



Sterling Forest State Park Work Plans Eagle Trail- Section J1

January 14, 2017

Prepared For
OPRHP, Sterling Forest State Park

Prepared By
New York-New Jersey Trail Conference



Annual Project Work Plan - Trails Form

Submit to Park Manager for review and approval prior to commencing work: for ALL trail work beyond standard maintenance practices (blazing, clearing brush from treadway/tree pruning, maintenance of erosion control structures) on existing designated trails.

State Park Name: Sterling Forest Year: 2017

Organization: The New York-New Jersey Trail Conference

Contact Name: Erik Mickelson

Contact Address: 600 Ramapo Valley Rd.

Contact Phone #: 760-893-9331

Contact Email Address: emickelson@nynjtc.org

Trail Name: Eagle (section J1 heading north towards Caretaker lot, ending at powerline)

Description of location of trail section to be worked on (if applicable): Section J1 ~0~3030ft see map

GPS coordinates if available. Format: Decimal Degrees; Datum (circle one): NAD27, 83 or WGS84 (preferred) (Lat/Long): Section J1: ~41.18289 N, 74.23384 W to 41.18853 N, 74.23257 W

Type of work (check all that apply):

- Re-alignment/relocation of trail section
- New trail development (includes designating new trails)
- Tread upgrades including installation of water management structures
- Bridge construction/replacement
- Trail Closure/Restoration
- Other: _____

Scope of work included in Trails Plan: Yes No (If no, requires additional review of proposal)

Description of work: (be specific including rock moving, tree cutting, trail work within 100 ft. of a water body/wetland, bridge work (*may require DEC permit*), construction of switchbacks or retaining walls, culvert and turnpike installation, etc.): New trail cutting, see plans

Work Scheduled: 8/1/17 until completed

Attached map depicting area of work (required). Digital photo (before) Digital photo (after).

Submitted by (print): Erik Mickelson Signature: Erik Mickelson

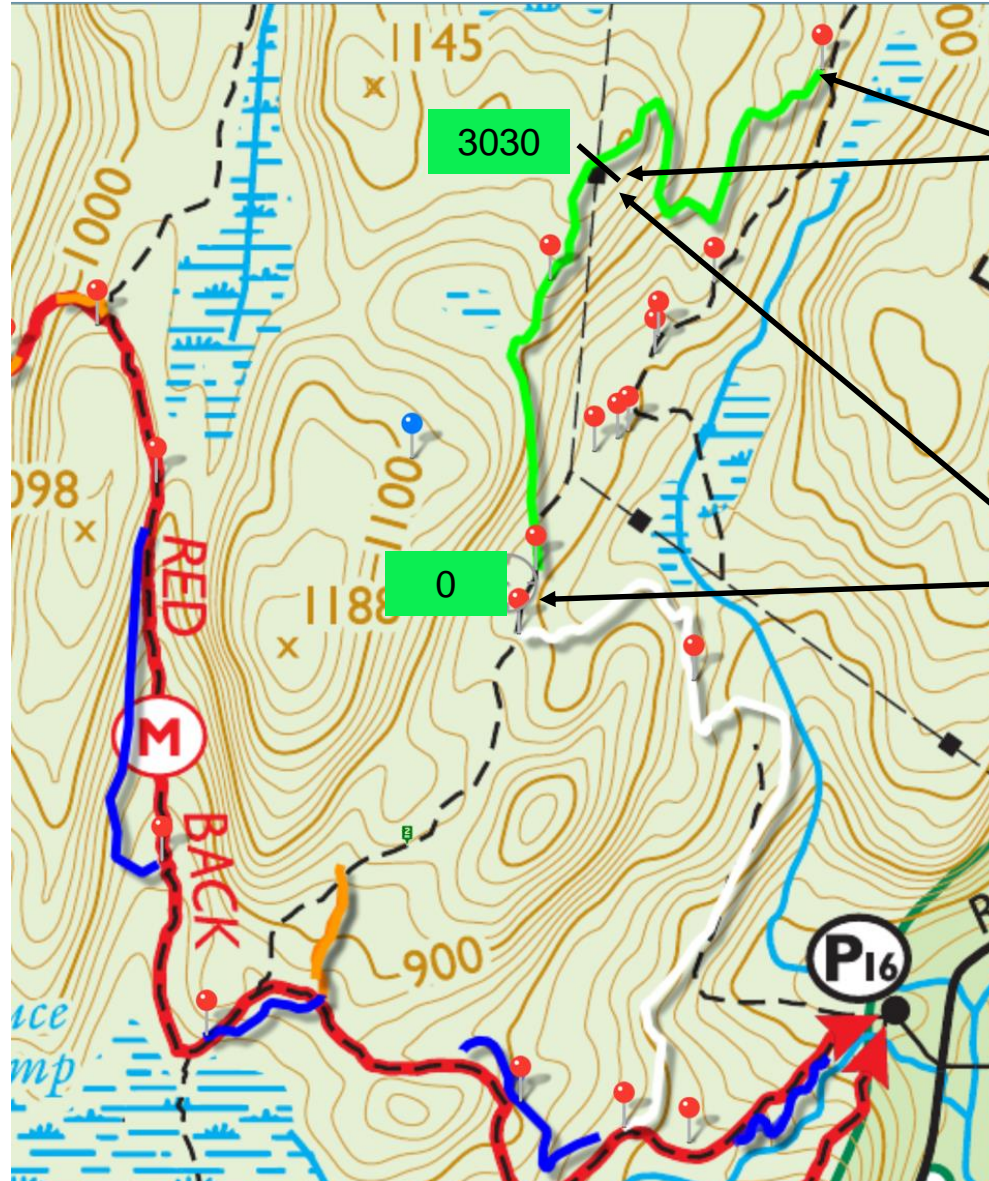
Date: 1/8/2017

Approved by Park Manager (print): _____ Signature: _____

Date: _____

-Forward copy to Regional Natural Resource Steward and Capital Facilities Manager.

-Also forward copy to Trails Planning Unit if scope is not part of a Trails Plan.



Section J part 2

Section J part 1
(this plan)



Work Log Item Summary

The following table contains an approximate list of the major trail construction items which will be required for this section of trail. There are other minor items which are not listed here but described in the trail construction work log below.

Item	Unit	Totals
Plan segment length	In. ft.	3030
Sidehill	In. ft.	930
Stone Steps	each	
Stone Cribbing	sq. ft.	
Stepping Stones	each	
Stone Paving	sq. ft.	
Turnpike/Causeway	In. ft.	
Drainage Structures	each	
Bridges	each	1 tbd
Crush Fill	cu. ft.	
Surfacing	cu. ft.	

* Work Log Item Summary is for construction estimate purposes only. Actual project accomplishments may vary.

General Trail Construction Notes

1.NYNJTC Trail Development Level: 3

- Development level details below, and this link: <https://www.nynjtc.org/sites/default/files/TrailDesignStandards.pdf>
- Trail Use Type: **Foot Travel Only**
- Trail Tread Width Range: **18" - 36"**, tread should be natural surfacing where possible. **Where necessary, tread definition, filling, and removal of loose rock will be performed to keep hikers on trail and remove safety hazards.**
- Running Grade Range: **0-15%**, Grades above 15% will have steps installed.
- Corridor: **4'x8'**, all cuts should be flush to tree or ground. **Stumps within treadway should be removed.**
- **Deviations from Trail Development Level Standards:**

- 2.The trail layout/existing trail improvement follows the general principles of sustainable trail design with the added objective of creating an interesting, scenic, and low maintenance route.
- 3.All local stone harvesting/splitting/shaping must be done away from the trail as to not significantly alter the appearance of the surrounding area from the trail.
- 4.Safeguards should be made to protect trailside vegetation including the use of "tree bumpers."
- 5.All trailside impacted areas must be renovated with leaves, logs, and other on-site organic debris.
- 6.Visible drill holes on stone should be minimized to the extent possible with cut/split faces mixed in with natural faces.
- 7.Organic materials/duff must be removed from the ground surface before trail construction commences. These materials must be stockpiled for finishing work and trail closure purposes.
- 8.Backfill materials may be stone up to 3". To ensure proper drainage, mineral soil should not be used.
9. **Site Specific Notes: This trail borders a wetland area. All efforts should be made to not disturb wetland areas or vernal pools.**

Safety Notes

- 1.Each day will begin with a safety tailgate meeting outlining environmental, flora, fauna, work, communication, site, and tool related hazards and mitigation practices.
- 2.Proper personal protective equipment must be worn by all trail workers while on the worksite including long pants, closed-toe shoes, work gloves, eye protection, and hard hats. Ear protection must be worn around power equipment. Dust masks/respirators must be worn when drilling rock.



These photo references indicate the location of major work items as well as the trail centerline indicated by a solid yellow line shown in each photo.

To effectively use this trail construction work log, place yourself approximately where the photographer stood, note the trees, boulders, or other features in the photo and that will help you reference where the trail is to be built/improved. Remember you are looking at photos which are in two dimensions and the field situation is in three dimensions. In addition, expect the view to change over time given more vegetation, downed trees, etc.

Arrows point to the approximate location of the work needed, or the location of a singular structure, such as a drainage structure. Two arrows or lines show the approximate start and finish of on-going structures or types of work, such as stone cribbing, stairs, and sidehill.

Each section to be built will be field staked or pin-flagged where needed by the trail designer prior to construction.

Note: Trail routing assumes a 50 foot corridor on either side of the centerline in which to move or realign the trail. For example, a trail might need to be realigned around a seep, large boulder, or bedrock. If the trail needs to be moved outside of the 50ft corridor due to unforeseen construction constraints, it will be brought to the land manager's attention for approval. A new work log photo with proper proof of approvals will be inserted into this document (at the end as an addendum to the slide/s in question).



52

35

22

Powerline access



52

95

140

140

200

3





200

240

220



240

285

265 begin sidehill



360

330

285

300



380

403 crest

390

360



403 crest

448

**422 dip
End sidehill**

**Block road with
rock and logs**

**Corral and
anchor entrance
to sidehilling**

590

495

485 dip

470 crest

Keep trail on edge

448



Lave hike shortcut
On road open, but
add 3 hard chokes

565

535

495
Begin
sidehill

Dip



590 dip

605

562 crest



605

615



675

Dip

Crest

648

615

Dip

495

590

605

713

692

686 crest

675



775 dip

757 crest

765

Use for chokes
On road

713



825 end sidehill

775

Expose bedrock

**Use rock to corral
and block road for
bikes**

800

Dip

765



882

857

849

825

882

980

928

Narrow bench
and swerve
and corral
corridor with
rocks and logs



980

1038

1067

1038 begin soft sidehill

Block road and force turn



1084

**1135 end sidehill
Back on rd**



1067



1251 1320

1187

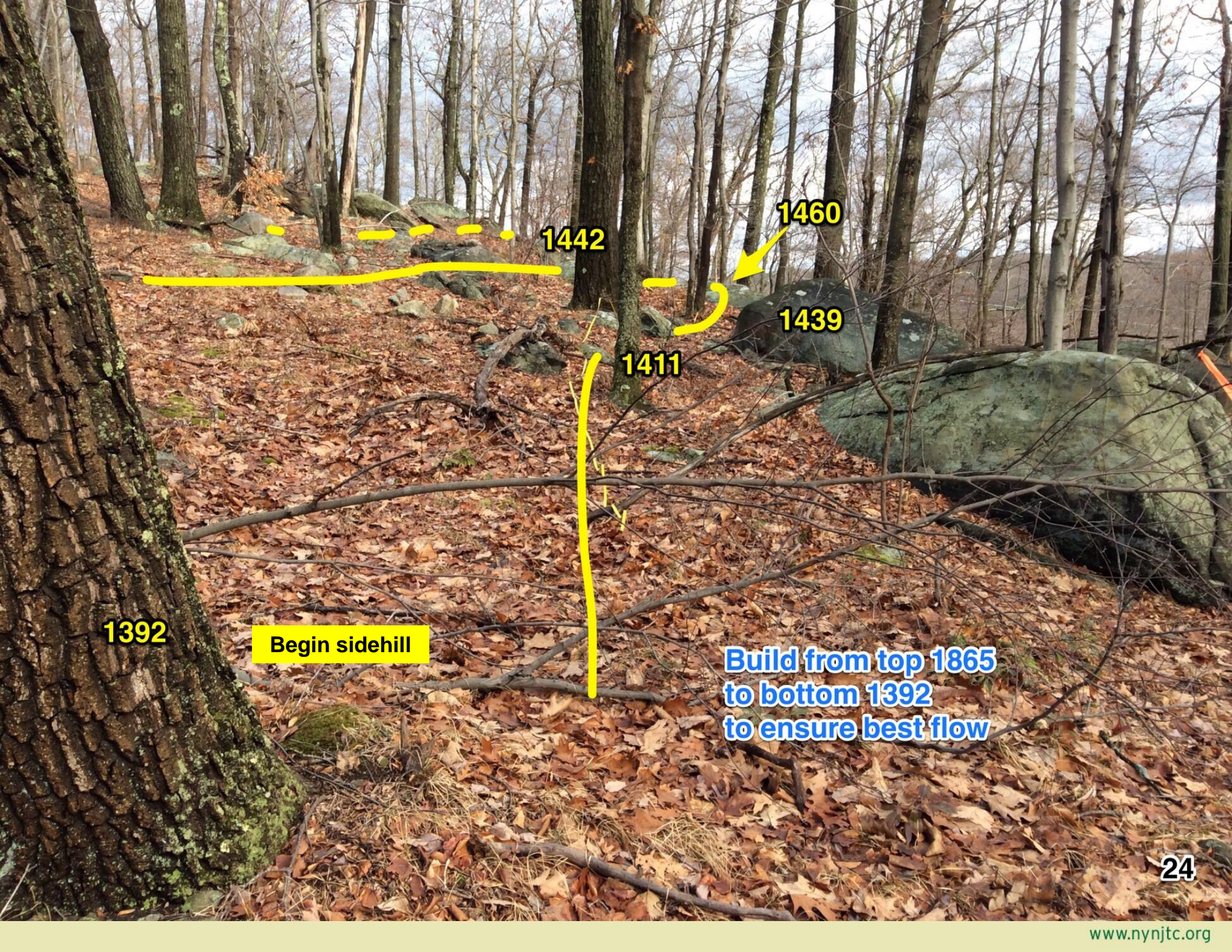


1392

1320

1305

**24 ft bog or pave
Monitor**



1392

Begin sidehill

1442

1411

1460

1439

Build from top 1865
to bottom 1392
to ensure best flow



Cribbing tbd

1442

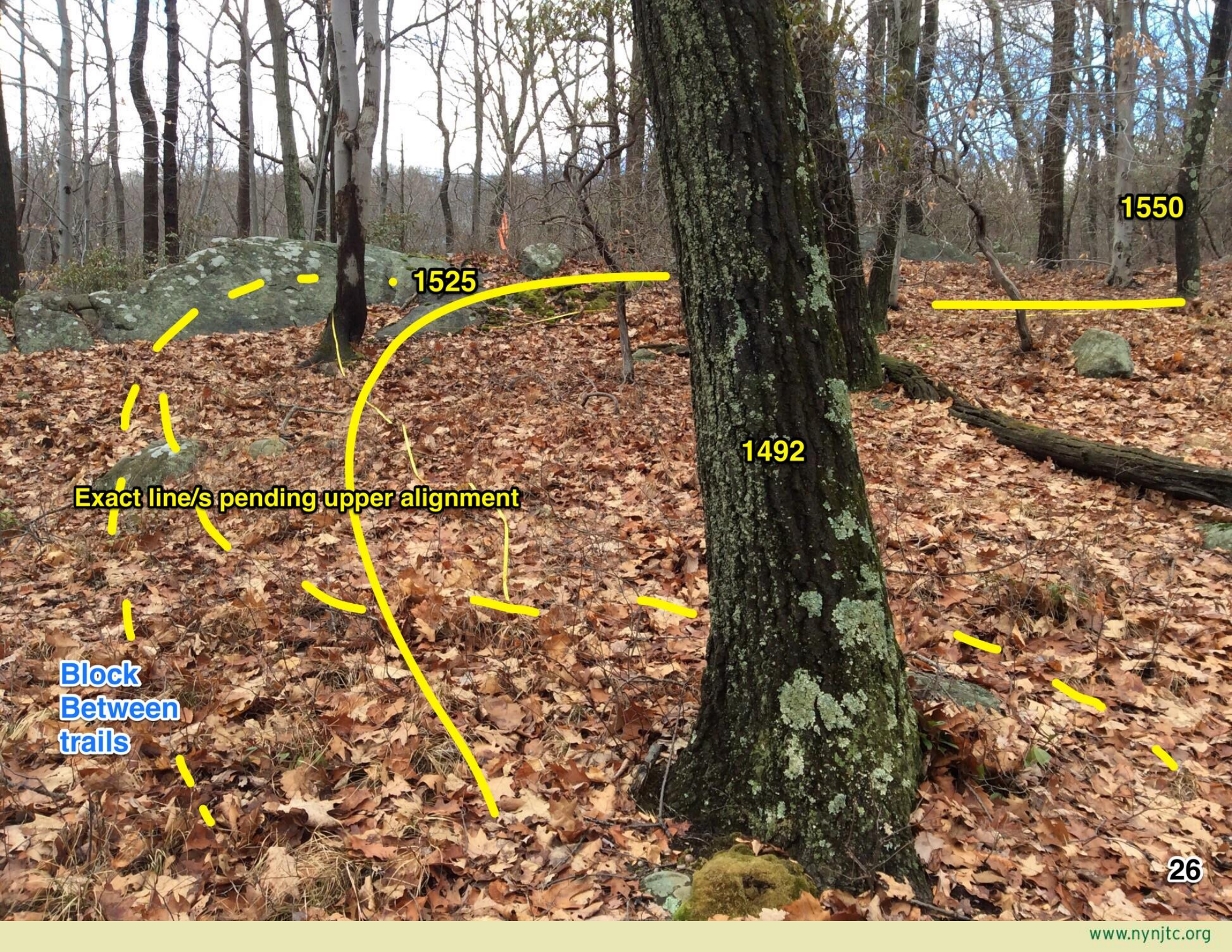
1492

1470

Around
1470?

1460

25



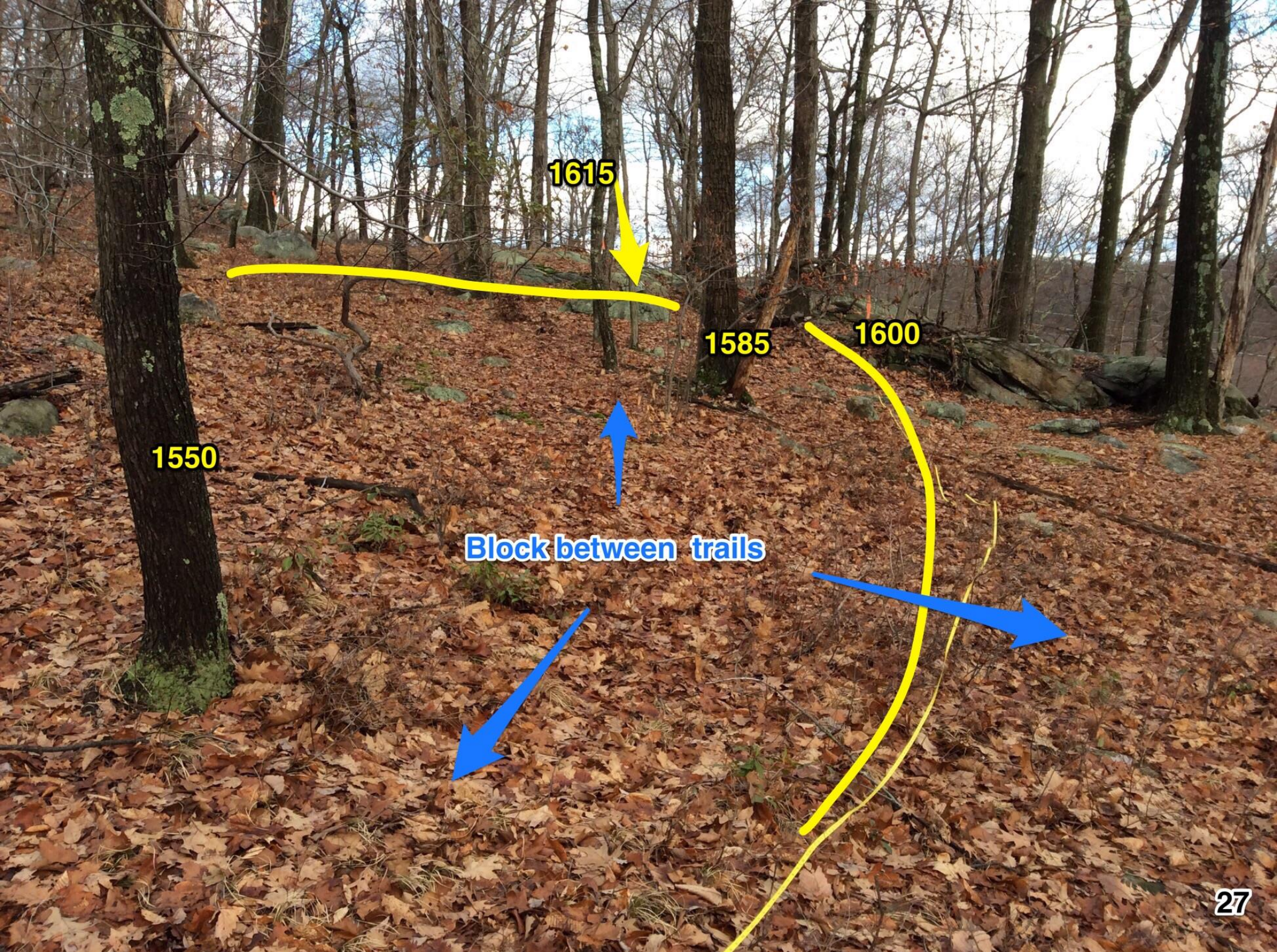
1550

• 1525

1492

Exact line/s pending upper alignment

Block
Between
trails



1550

1615

1585

1600

Block between trails



1585

1615

1600



1585

1665

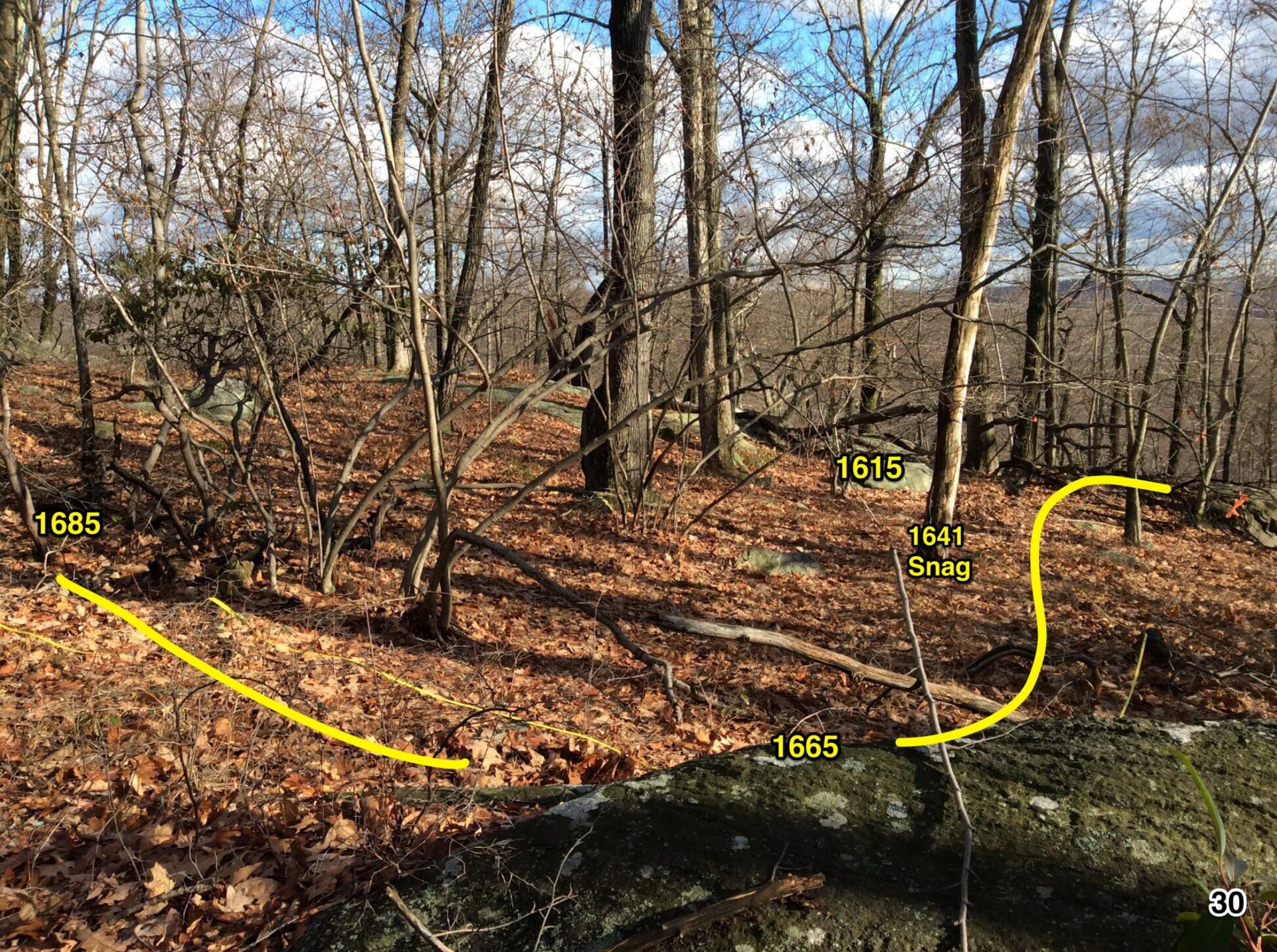
1641
Snag

1615

Block

1600

29



1685

1615

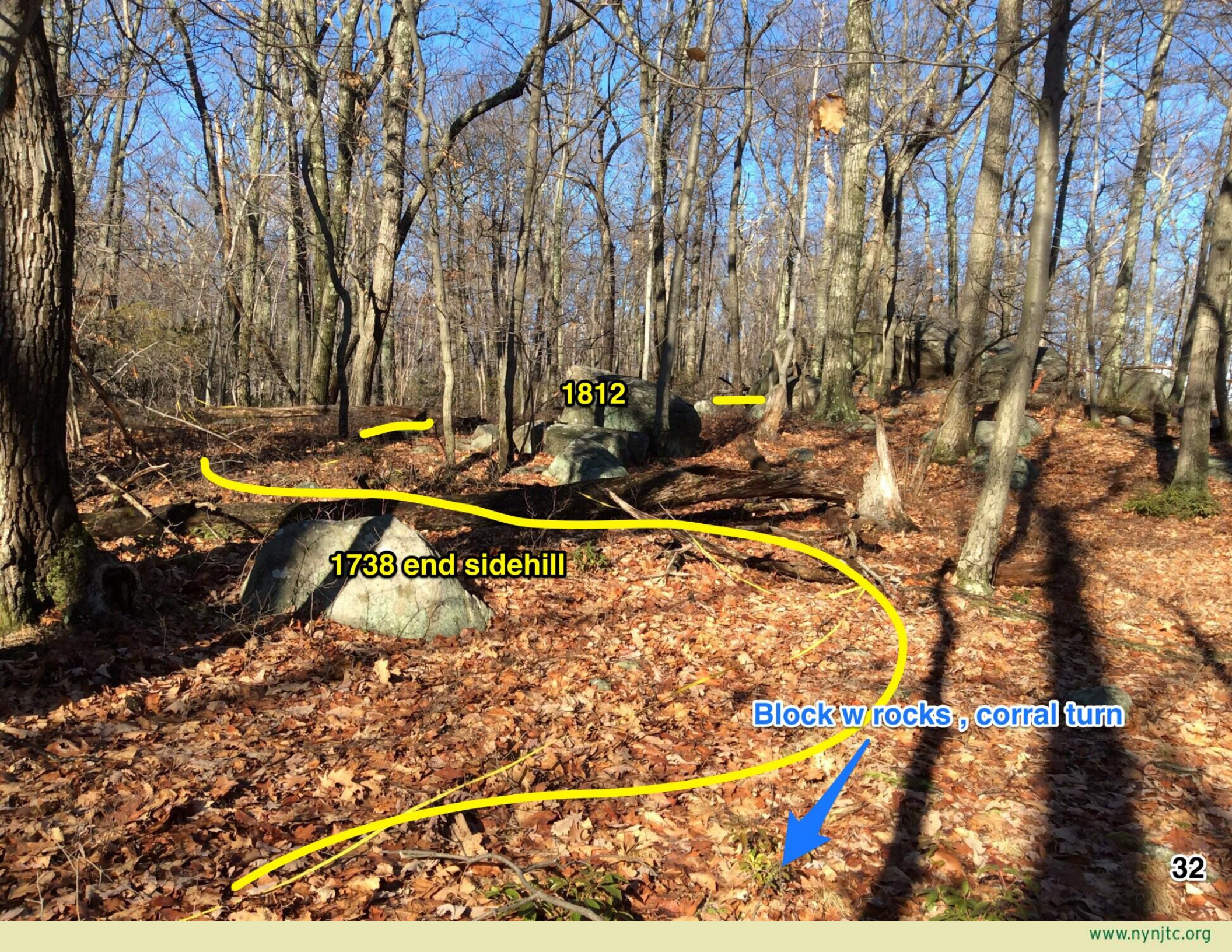
1641
Snag

1665



1738

1685



1812

1738 end sidehill

Block w rocks , corral turn

Add rocks
Block



1865

1833

1812





1935

1865

Block



1909

1935

1952



2005
1984 2016

1975

1952



2016

2020

2040



2040

2097



2097

2100

2110

2155

2165



Block

2200

2200

2165



2297

Block this area between trails

Alternate to bedrock vista

2200

41



2286

2297

2315

2297



2362

2315

43

2378

2400

2362



2400

2500

2457 oak

2437

2430



2547

2500



2680

2622

2600

2680

2707

2736





2736

2767

2819

2752

2819

2832





Dig down to put the trail on bedrock

2832



2885

2914



2914

2952 Powerline rd



3030

2952

54



3030