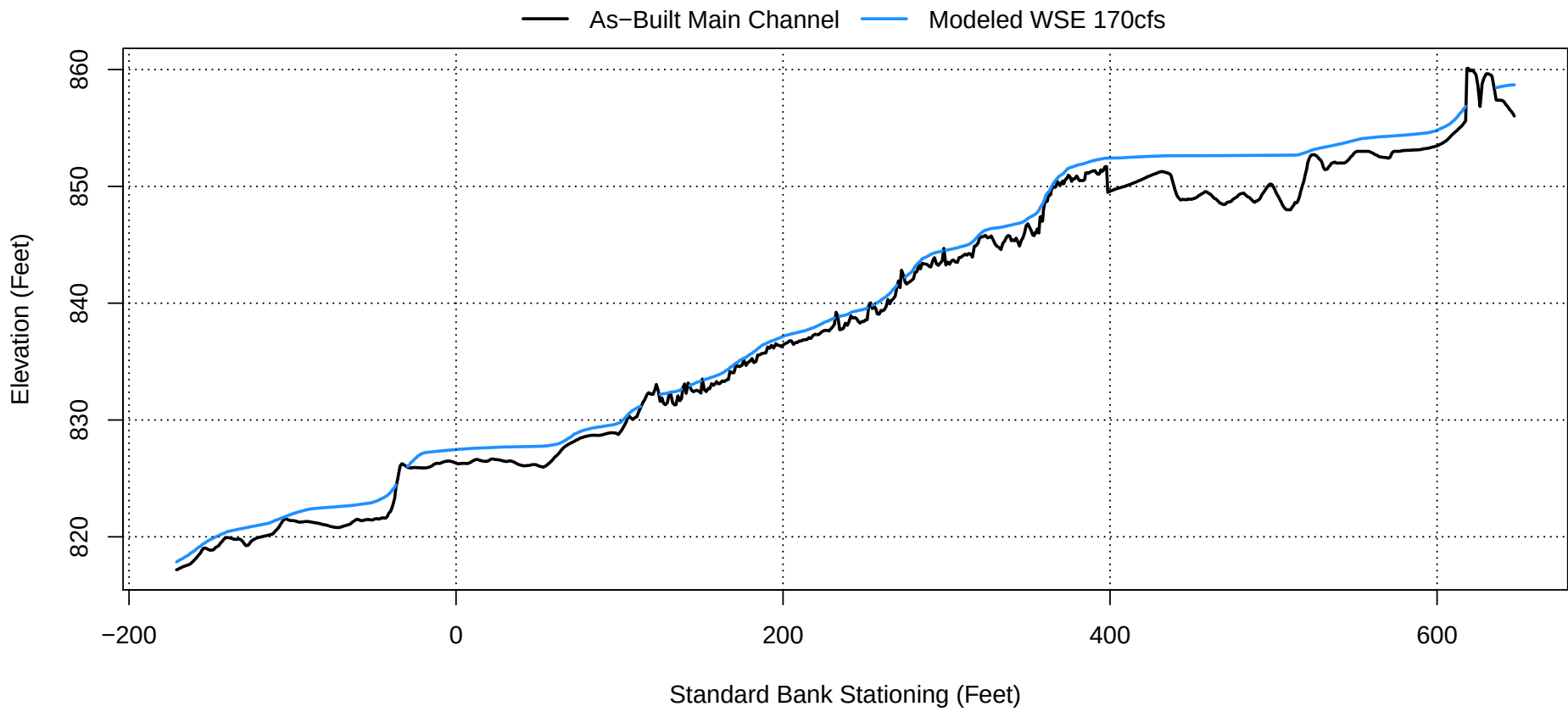


**MF NOOKSACK CHANNEL MONITORING
& ADAPTIVE
MANAGEMENT APPENDIX A**
**COMPLETE AS BUILT PHOTO DOCUMENTATION AND CROSS
SECTION OBSERVATIONS**

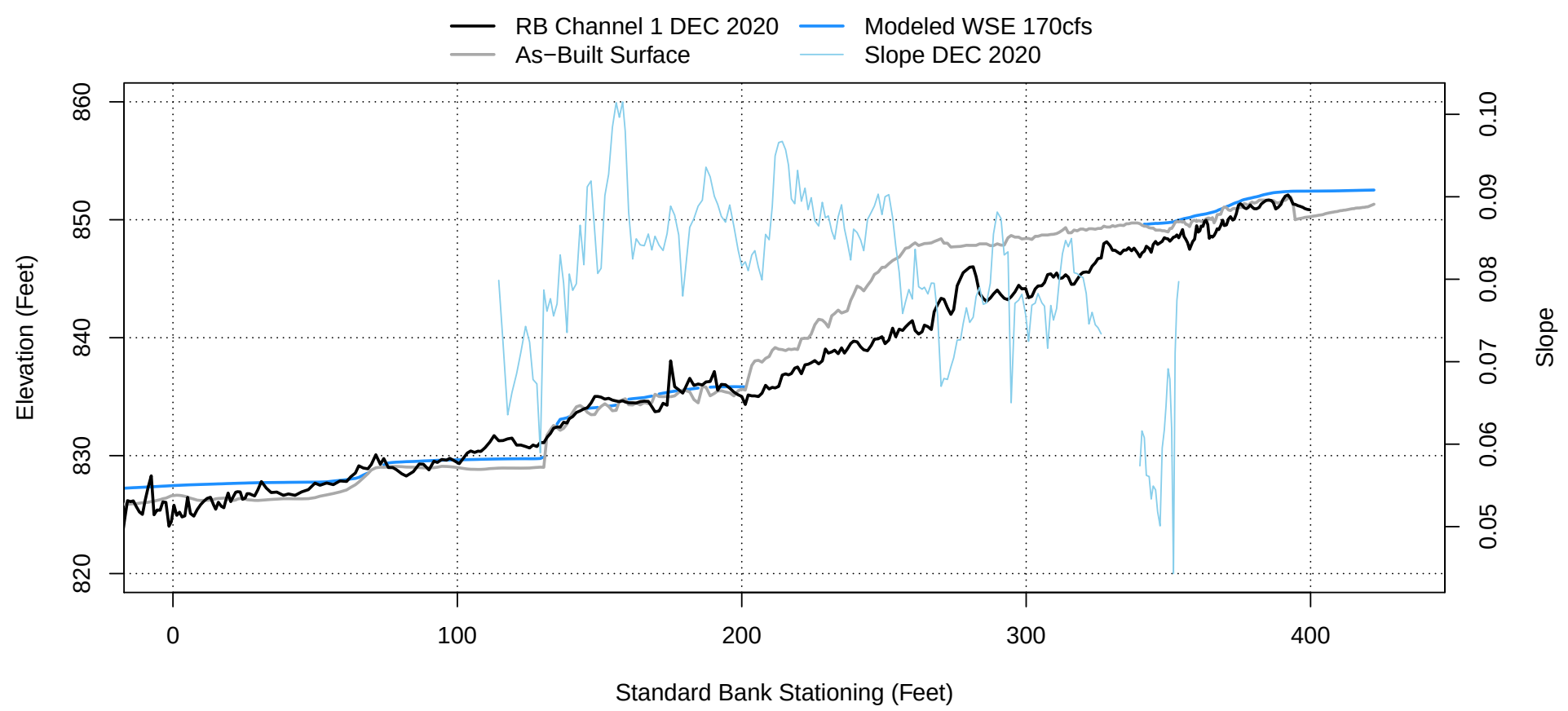
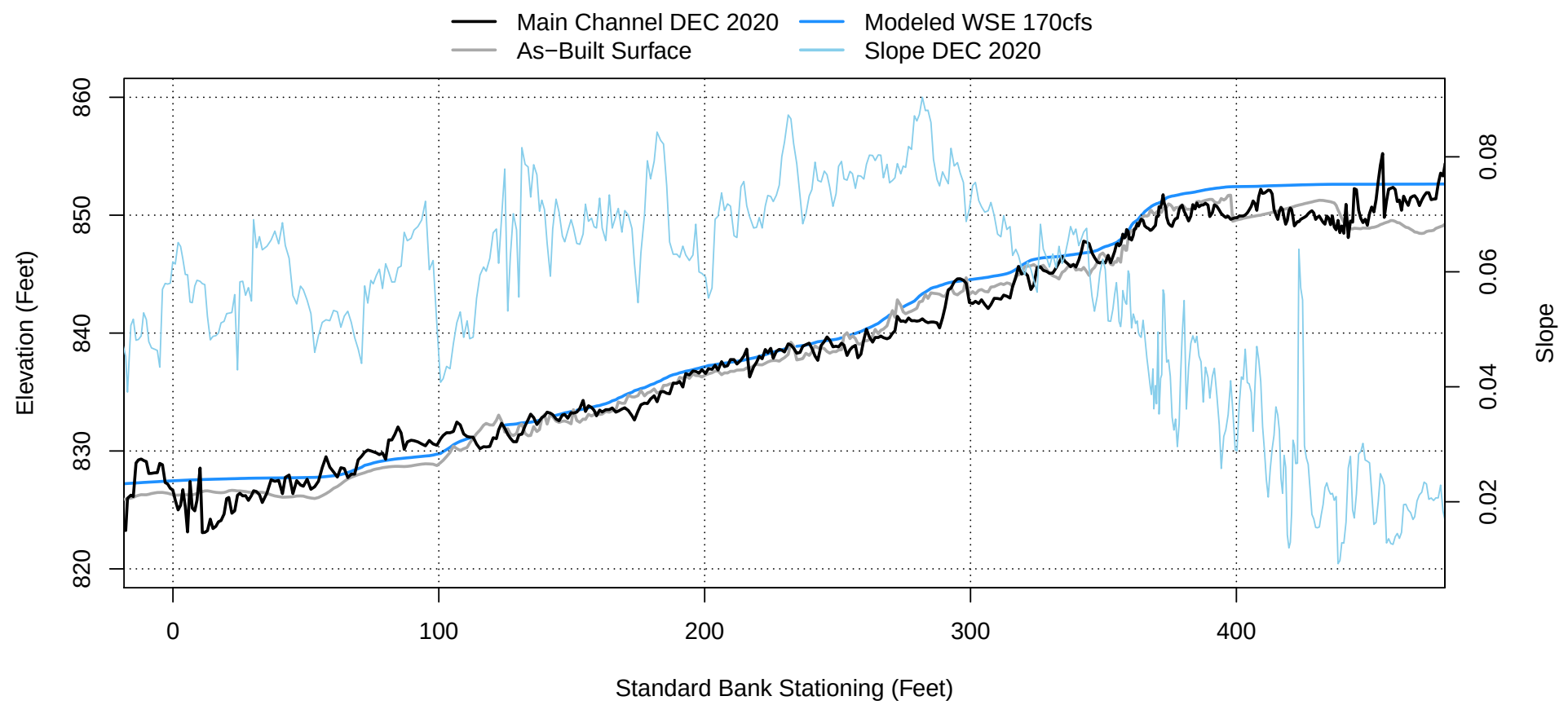
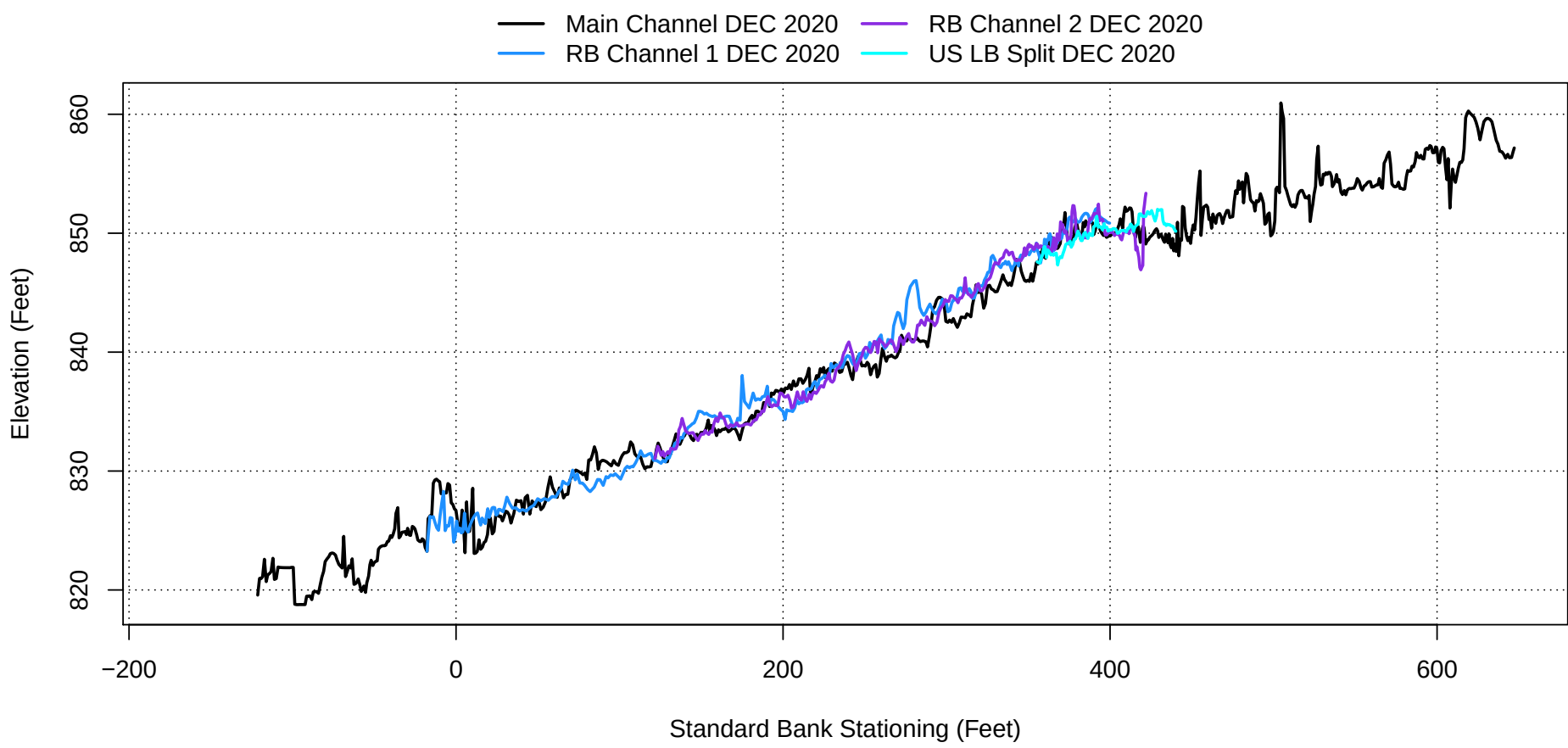
Channel Profiles

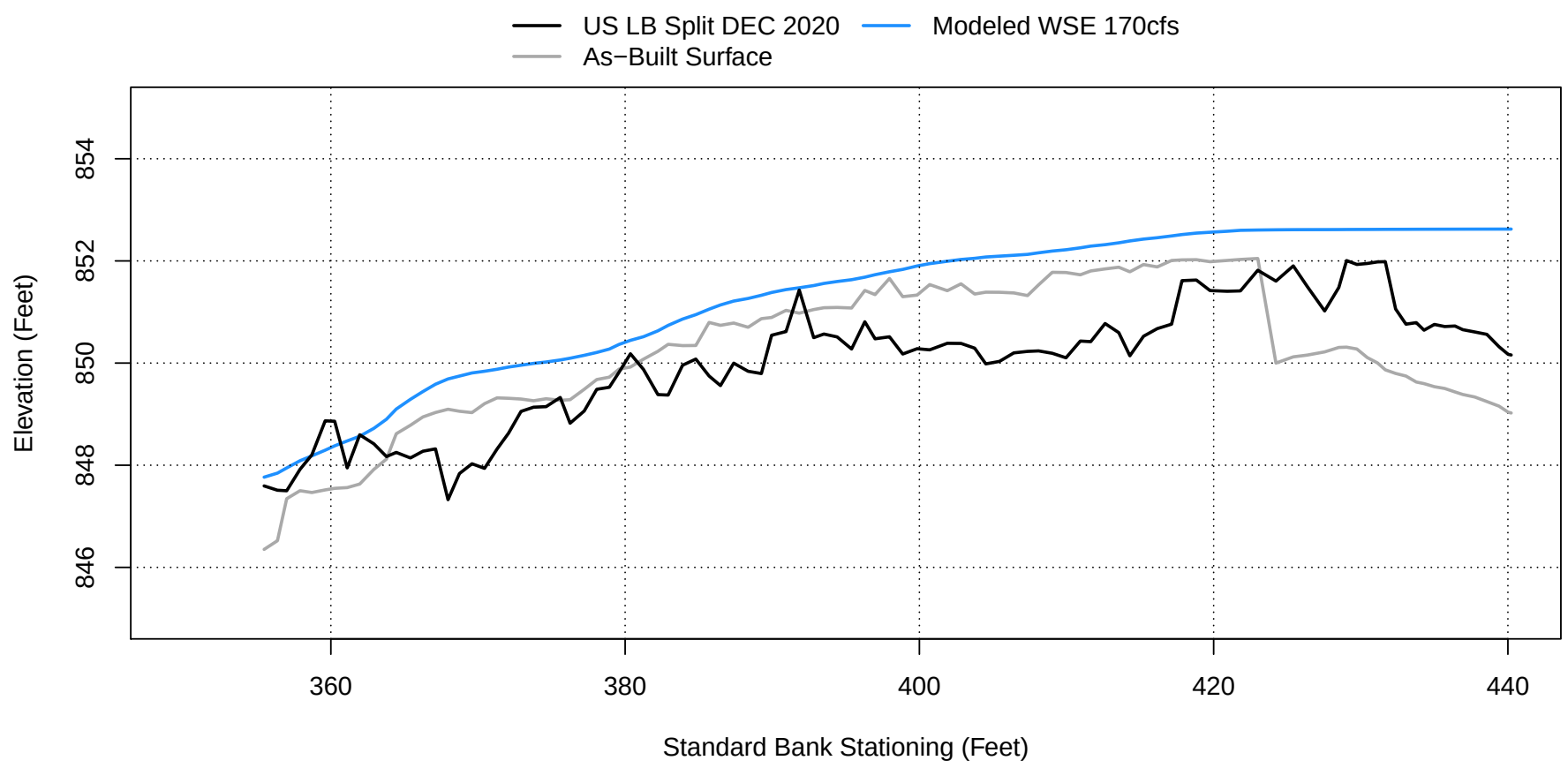
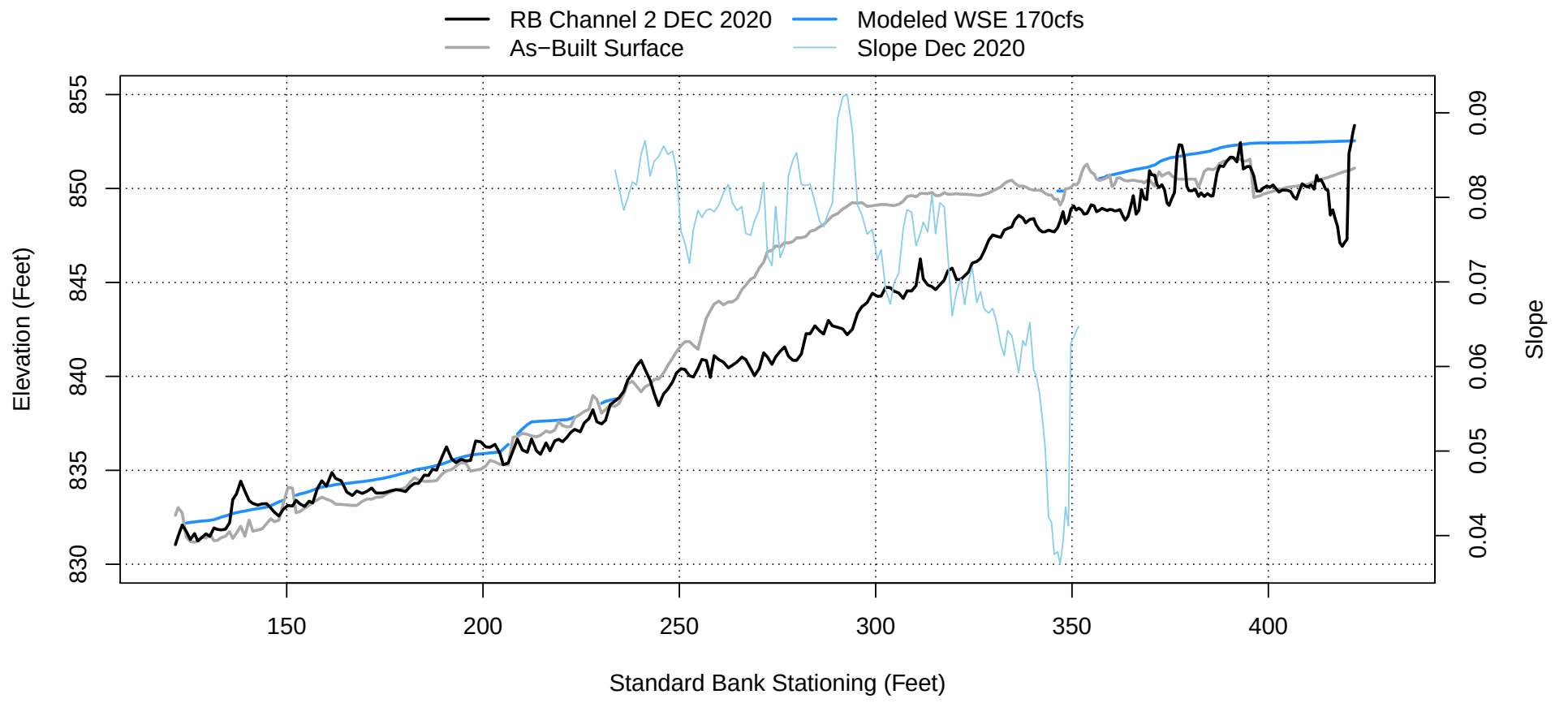
The following longitudinal profile plots include topographic data of the potential fish passage flow routes outlined in the Site Overview Map (Figure 2.1). Profile lines were extracted from the compiled as-built surface, the December 2020 UAV digital surface model, the modeled water surface elevations (WSE) at 170 cfs (the flows estimated at the time of the as-built survey), and the 200-ft slopes of the Dec 2020 terrain.

Modeled As-Built Conditions



December 2020 vs. As-Built Conditions



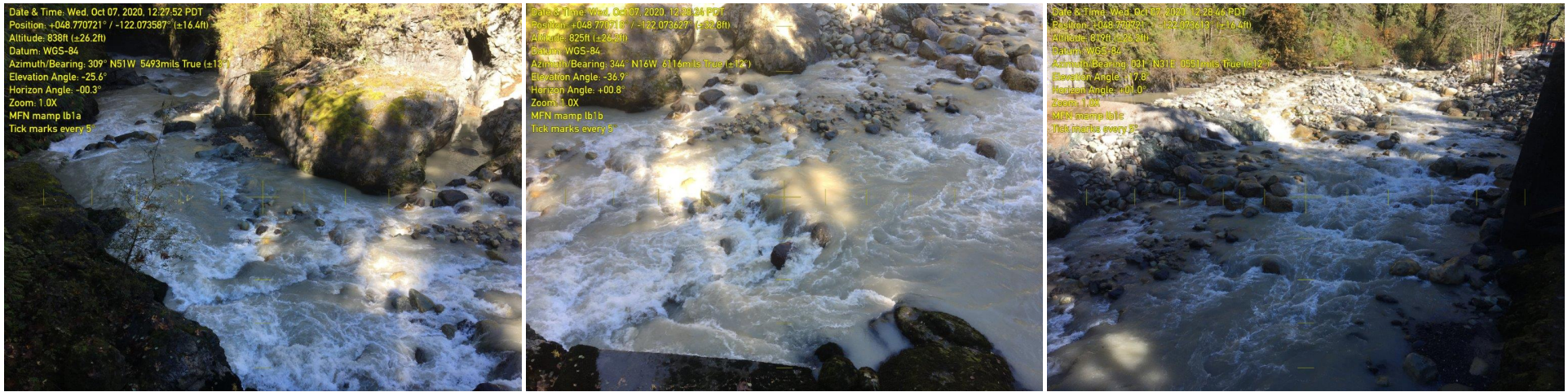


Roadway near time lapse camera (“Small Bridge” on map)



Photograph taken looking upstream from the roadway at the approximate timelapse camera location

Left Bank Location 1 (LB1)



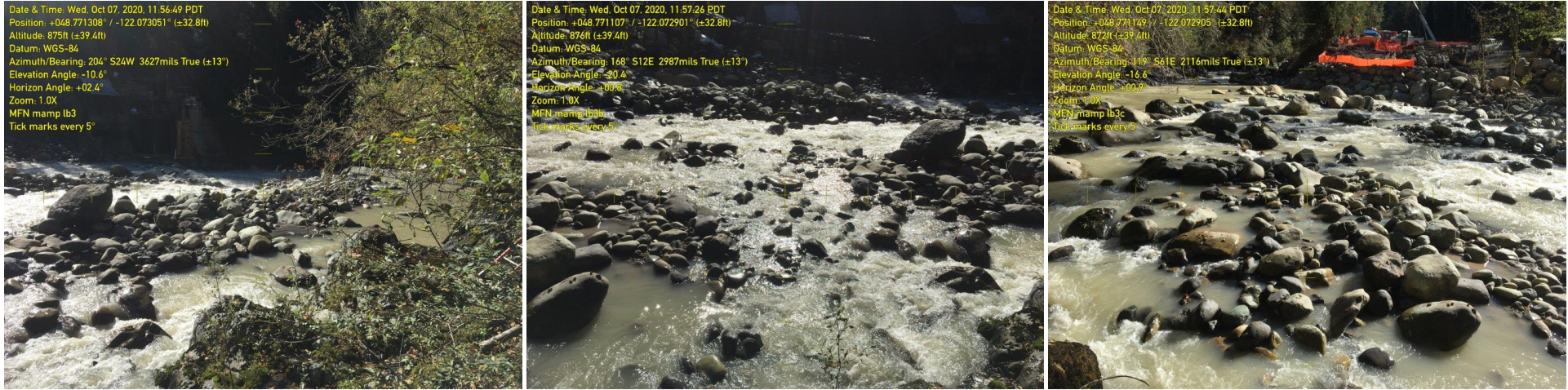
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the photograph location marker

Left Bank Location 2 (LB2)



Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the photograph location marker

Right Bank Location 1 (RB1)



Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the photograph location marker

Right Bank Location 2 (RB2)



Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the photograph location marker

Bridge Upstream Location (Bridge US)



Photographs taken from the bridge center railing looking at the upstream horizon (left), upstream oblique (center) and directly below bridge (right)

Bridge Downstream Location (Bridge DS)



Photographs taken from the bridge center railing looking at the downstream horizon (left), downstream oblique (center) and directly below bridge (right)

Overview from Road



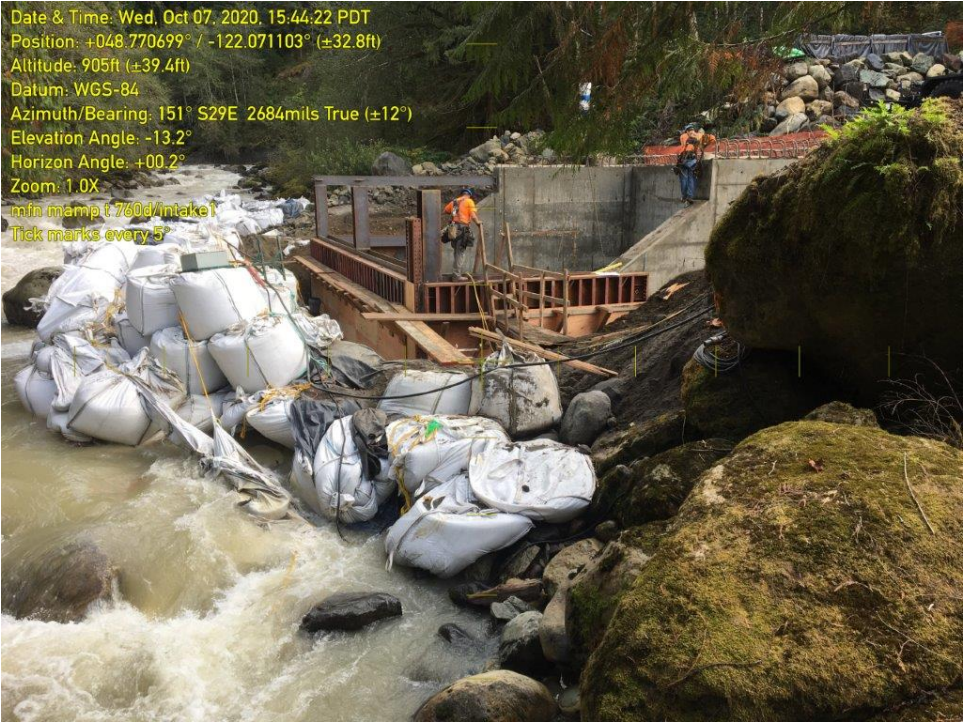
Photographs taken looking downstream from construction roadway

Fishway Outfall Slide (Transect 437 on map)



Photograph taken looking down at fishway outfall slide from Transect 437 marker

Intake 1 (Transect 760 on map)



Photograph taken looking upstream from Transect 760 marker

Intake 2



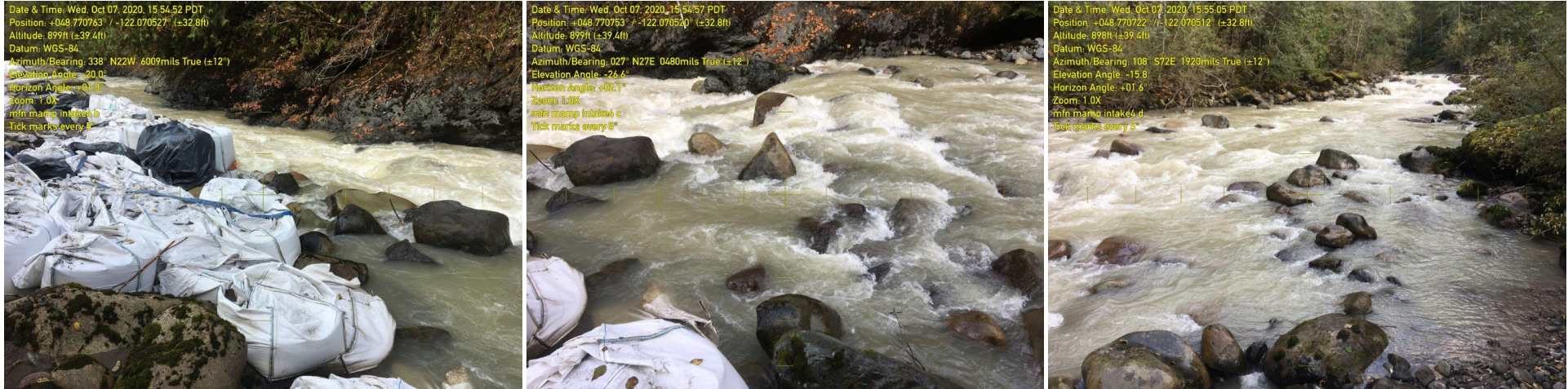
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the photograph location marker

Intake 3



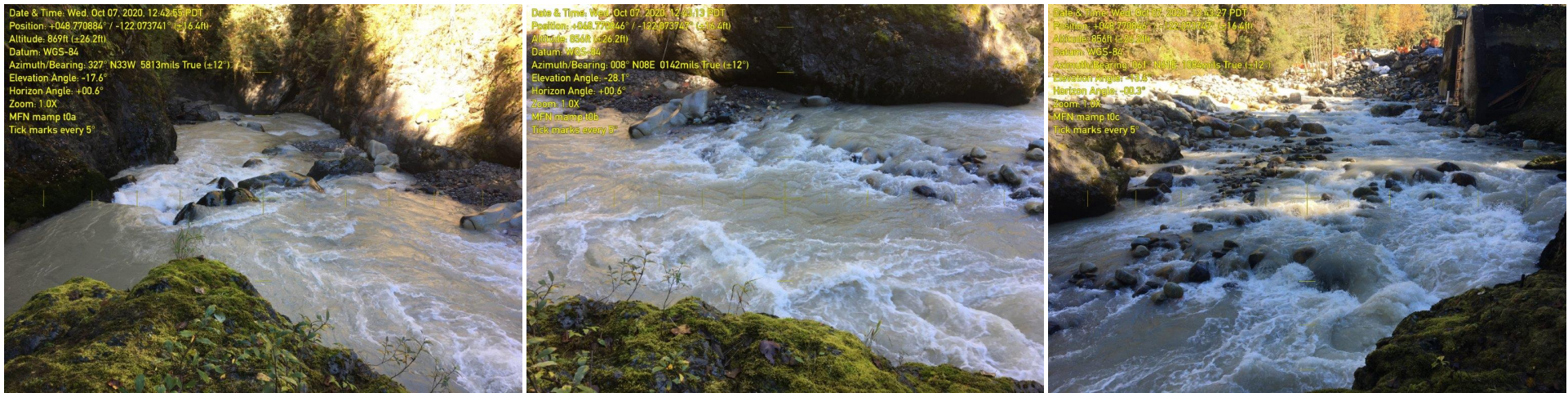
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the photograph location marker

Intake 4

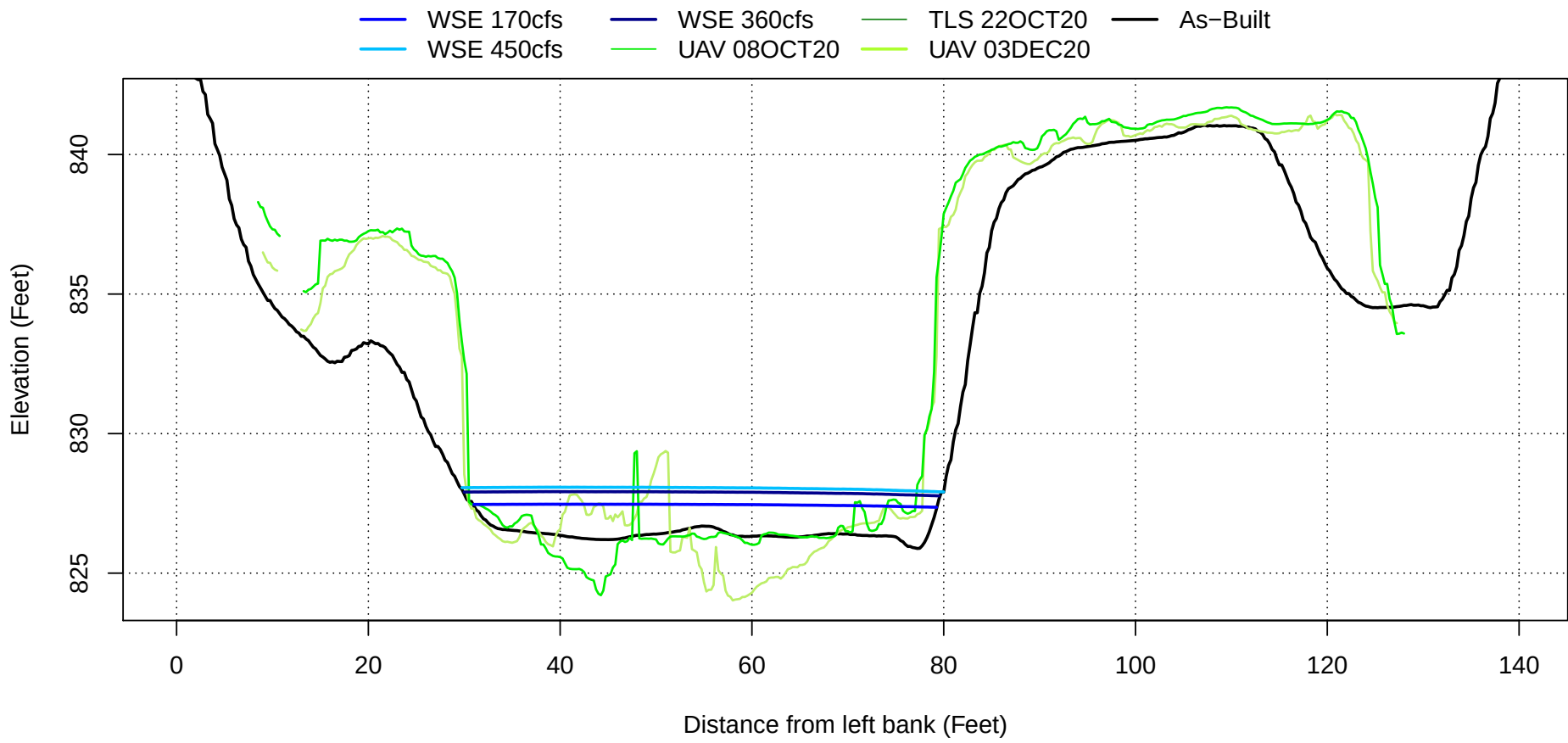


Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the photograph location marker

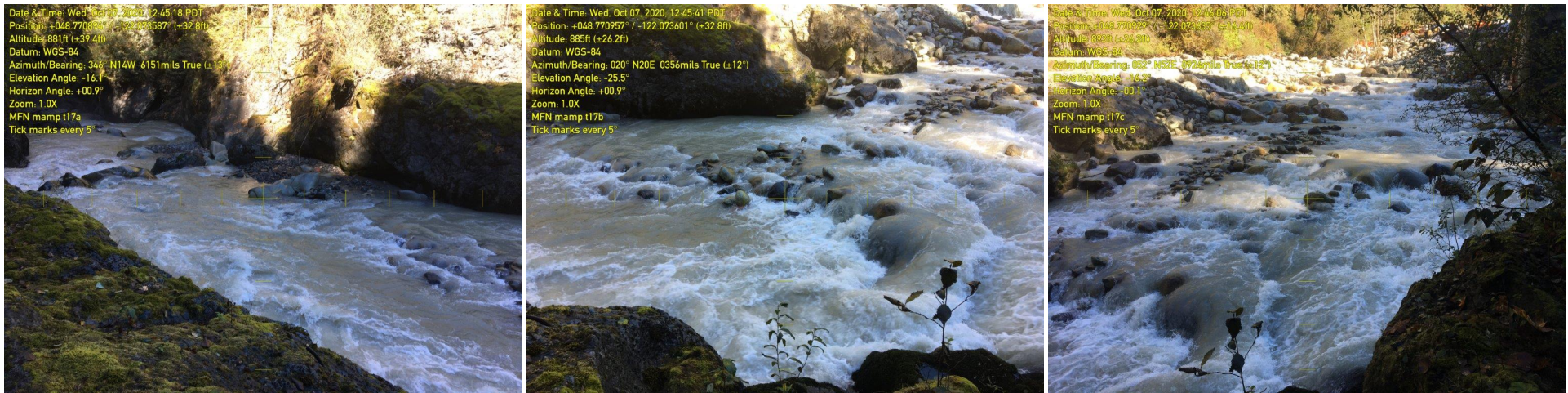
Transect 0



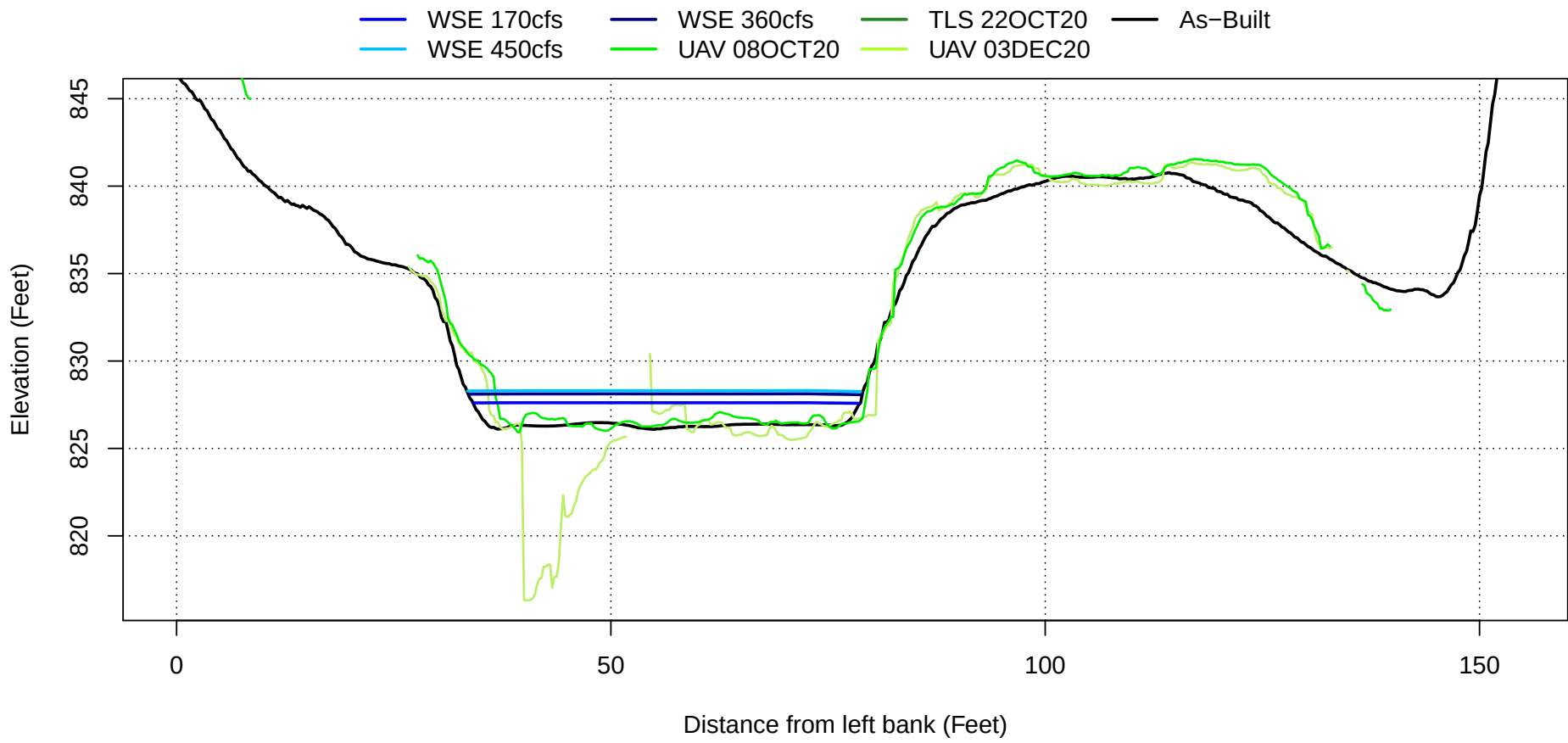
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



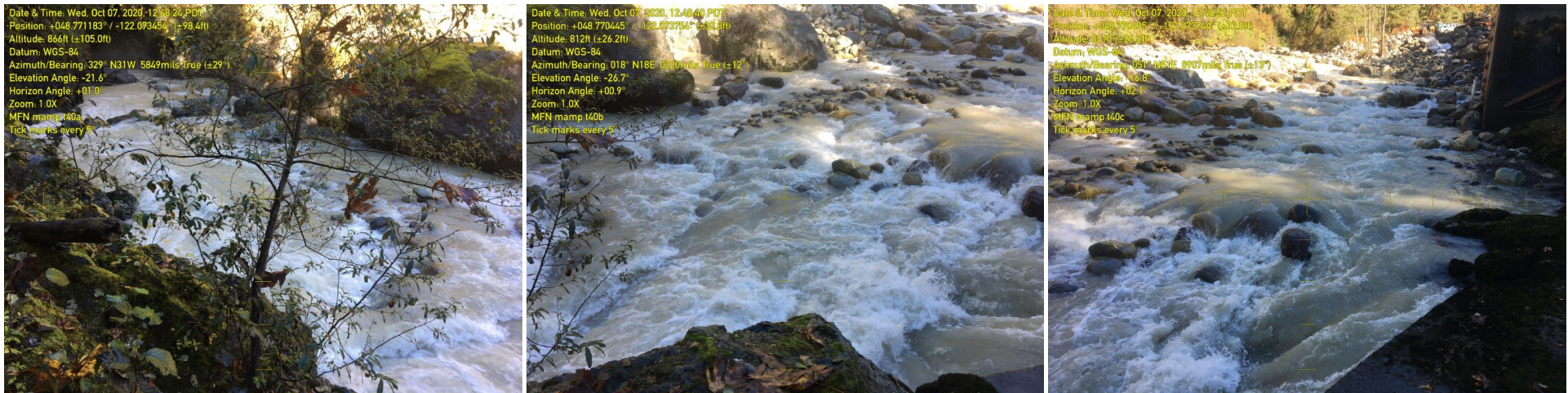
Transect 17



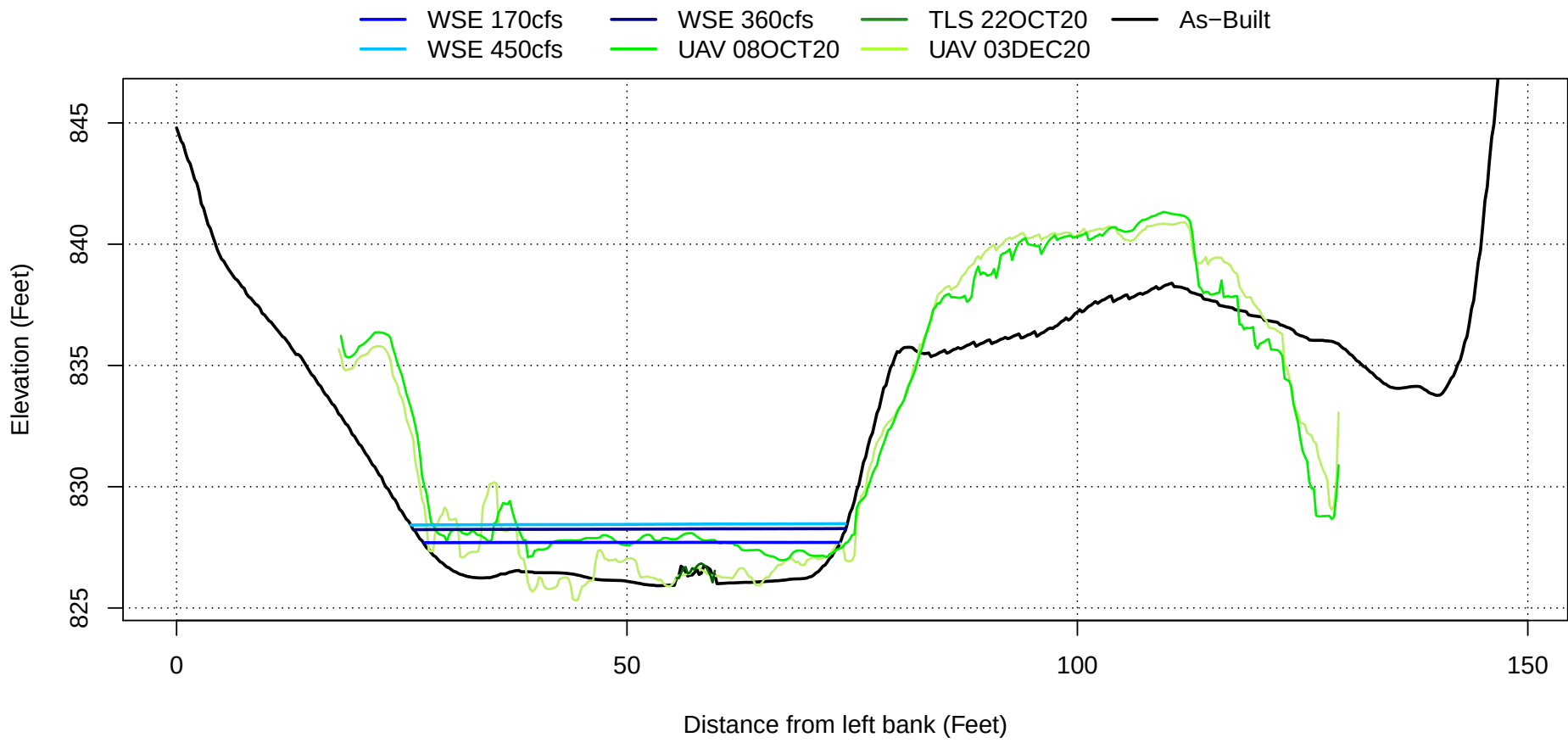
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



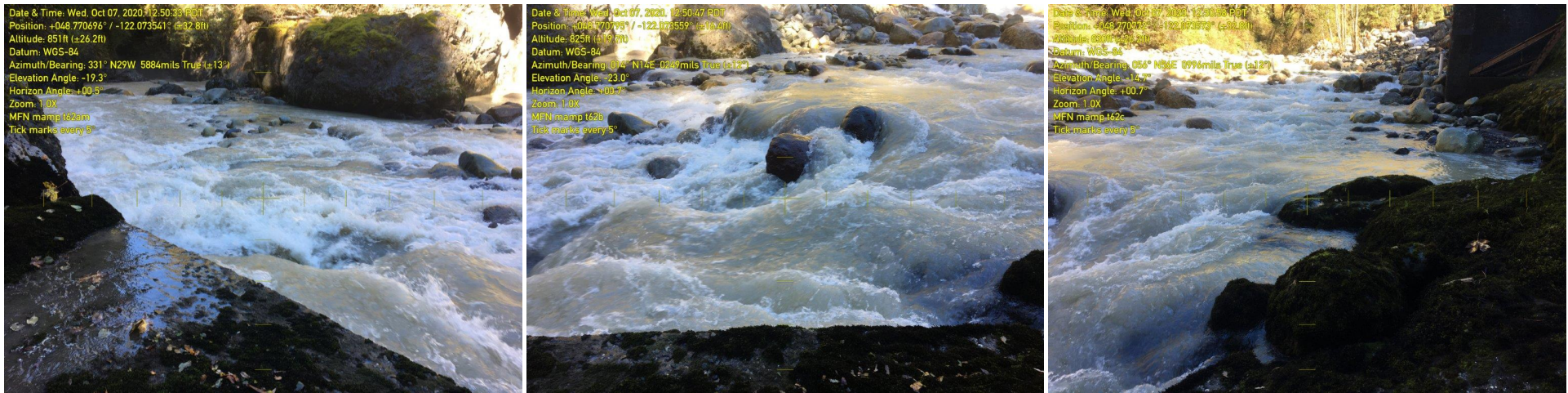
Transect 40



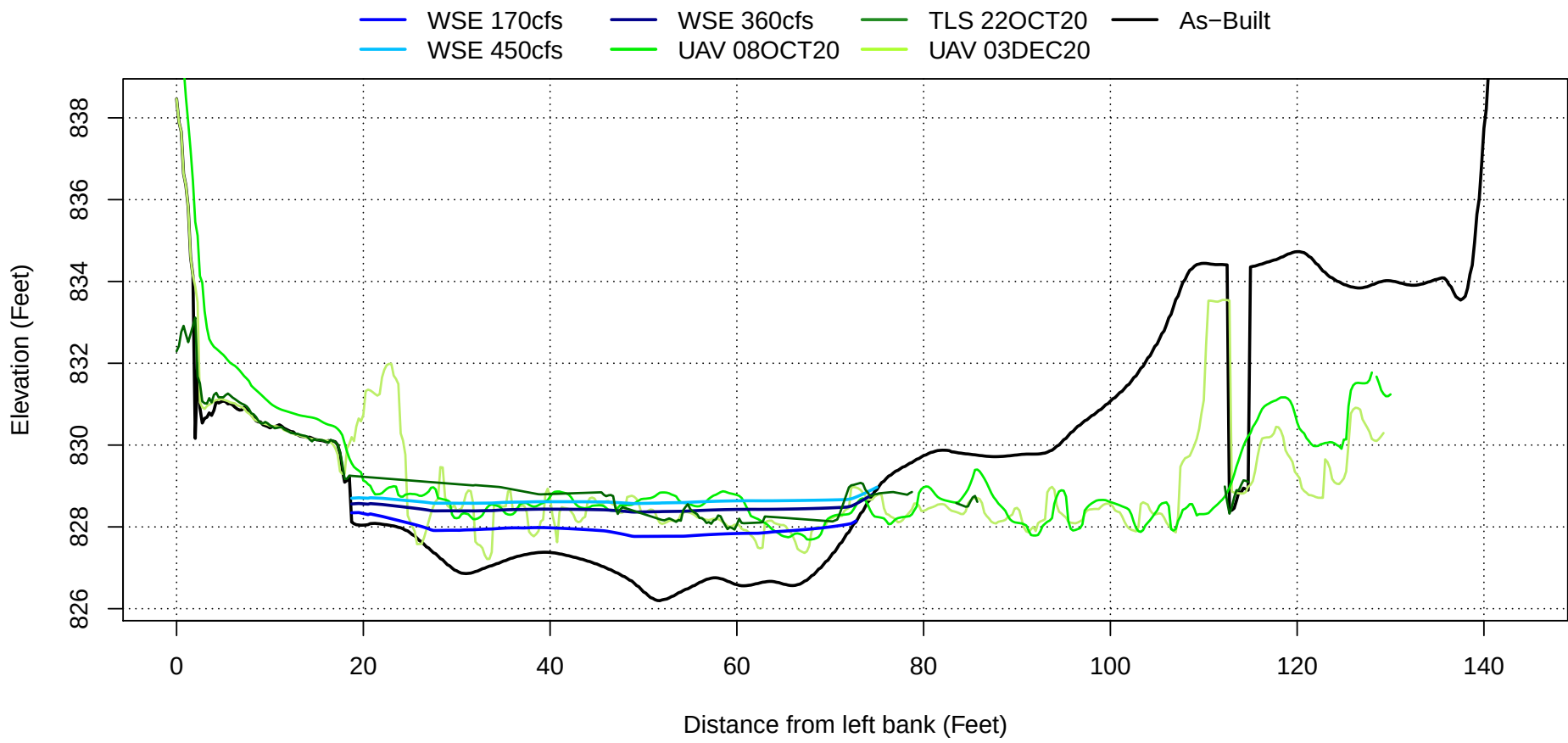
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 62



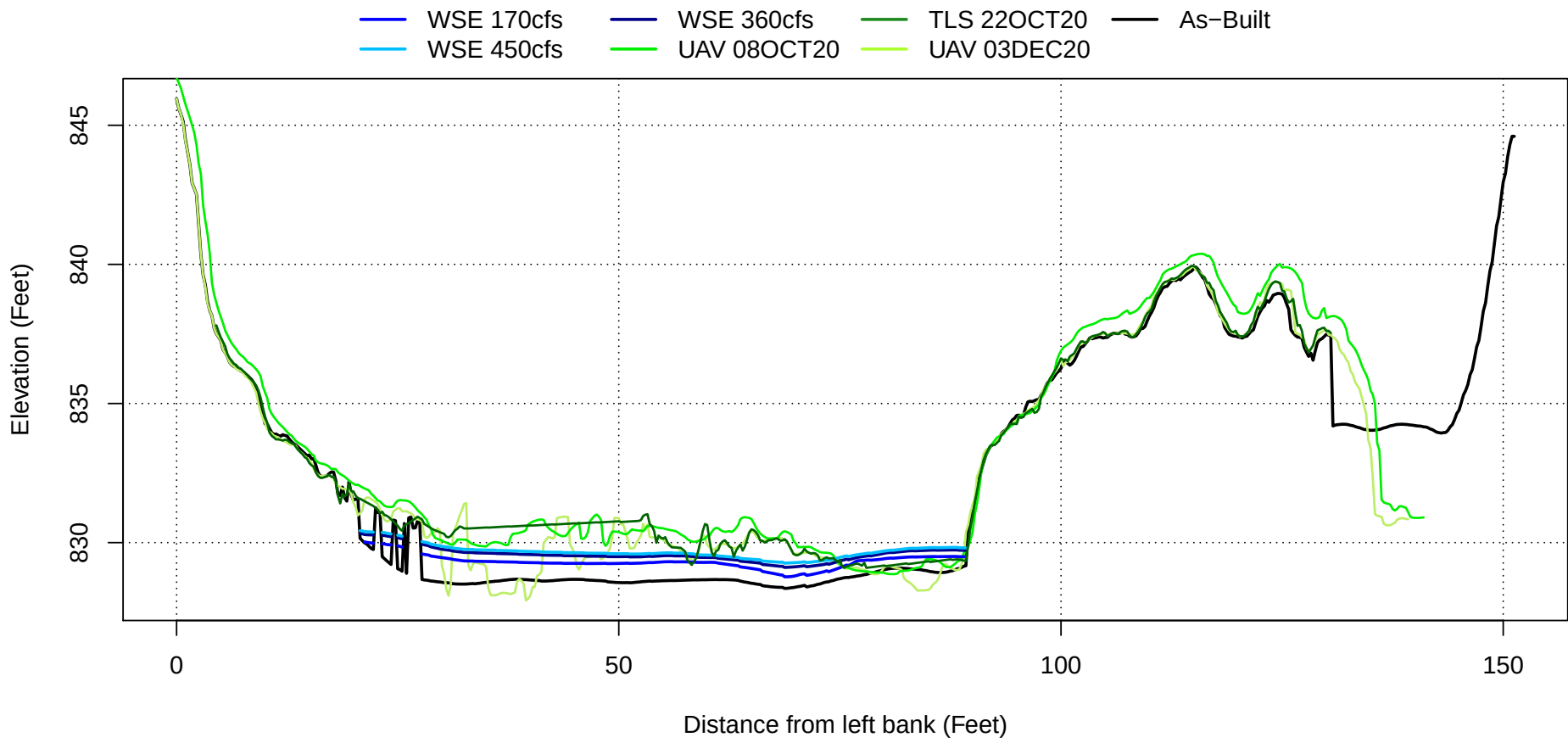
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



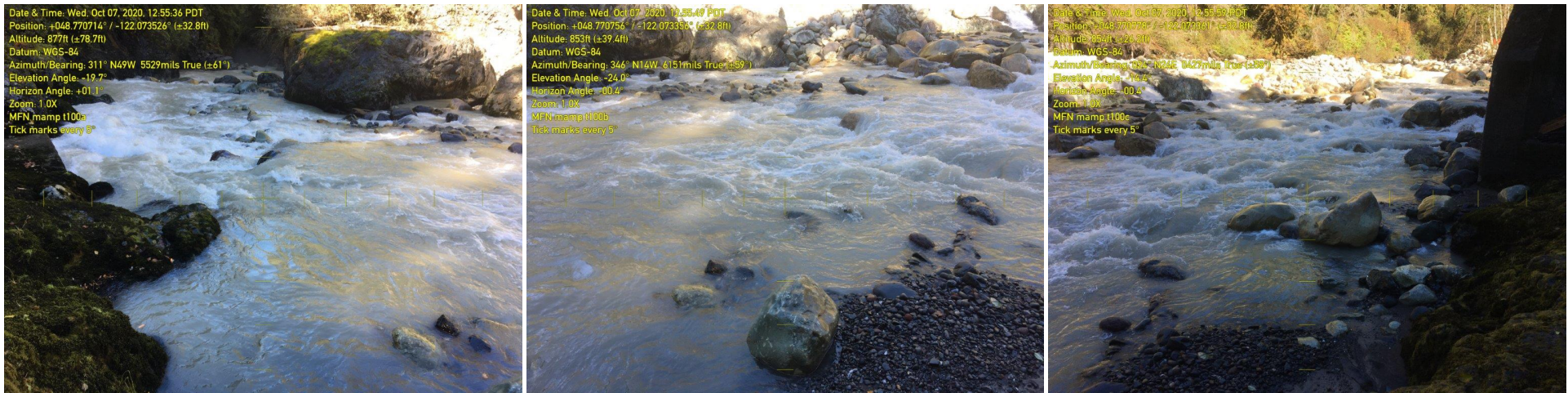
Transect 82



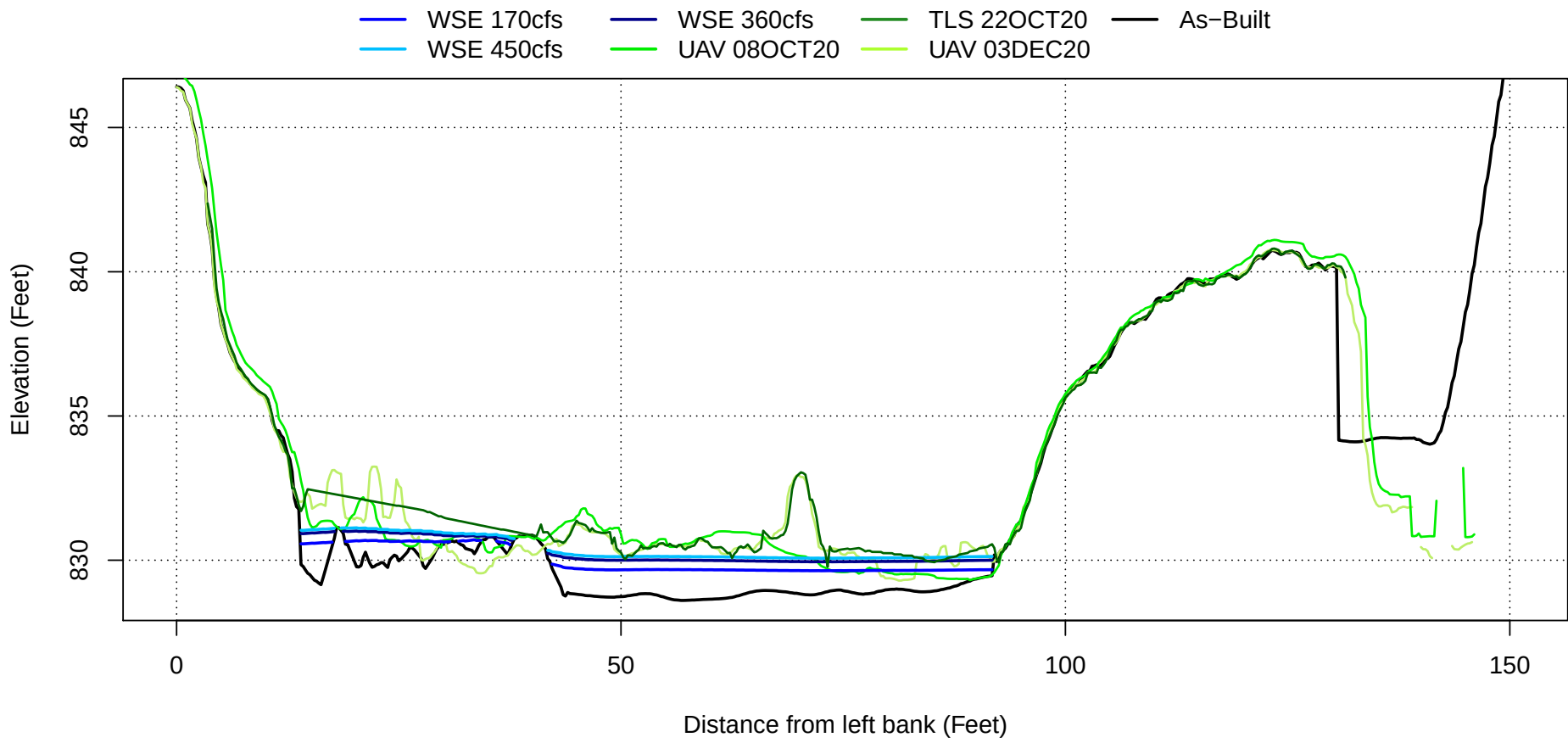
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 100



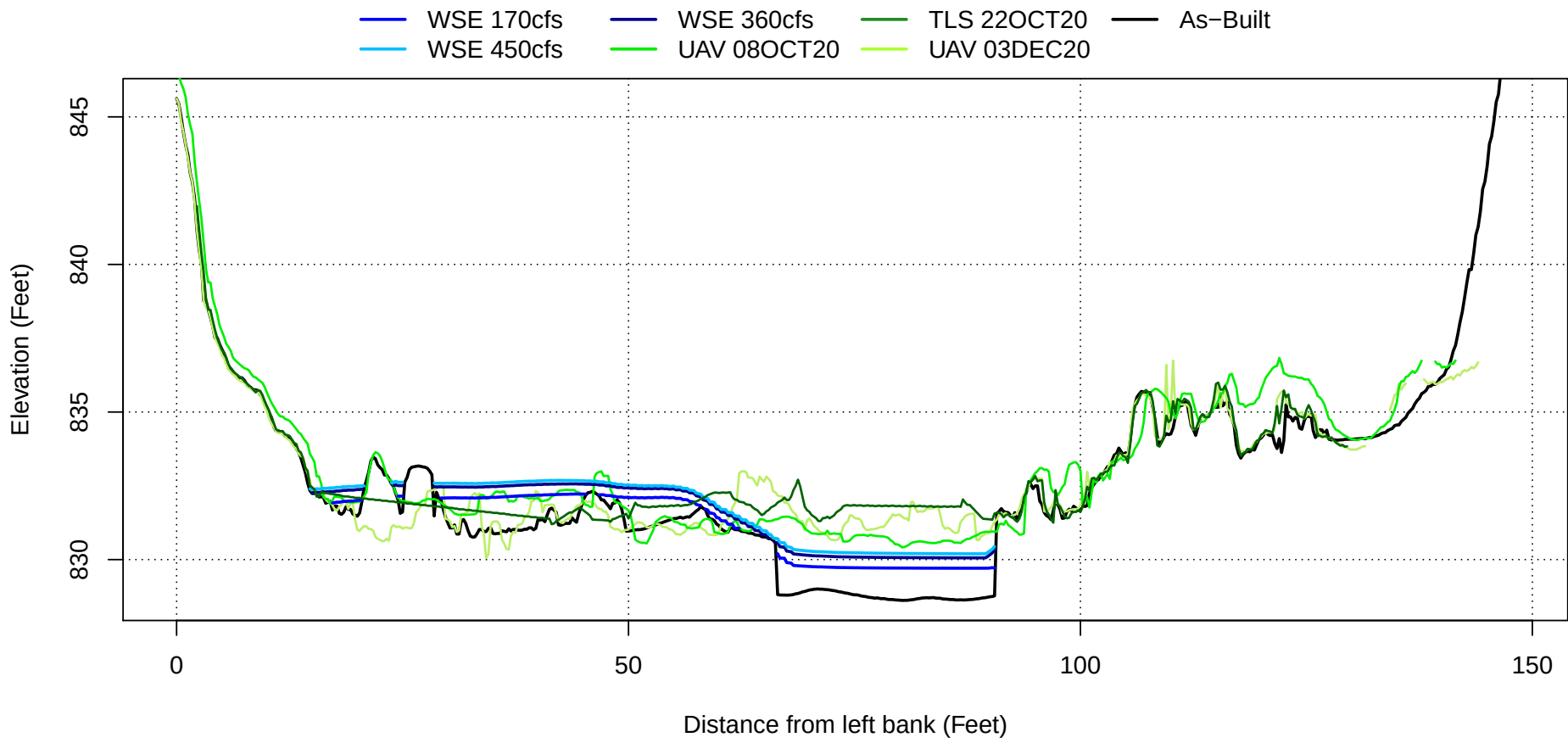
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



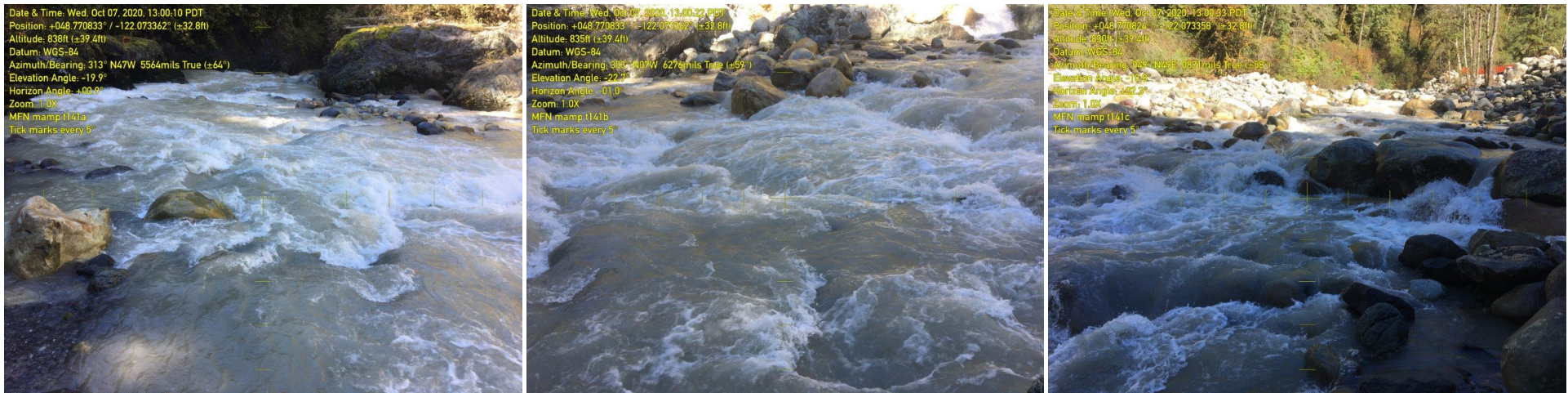
Transect 125



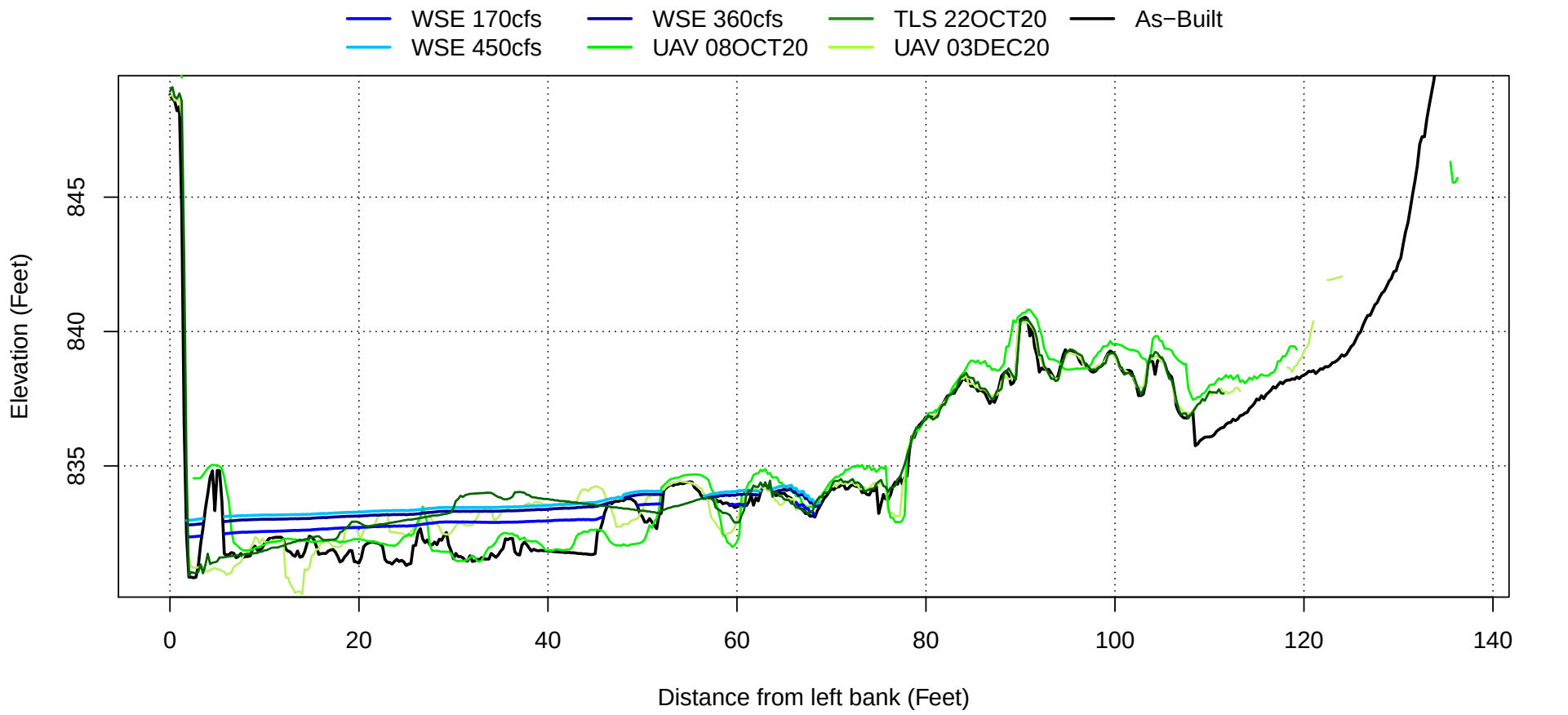
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



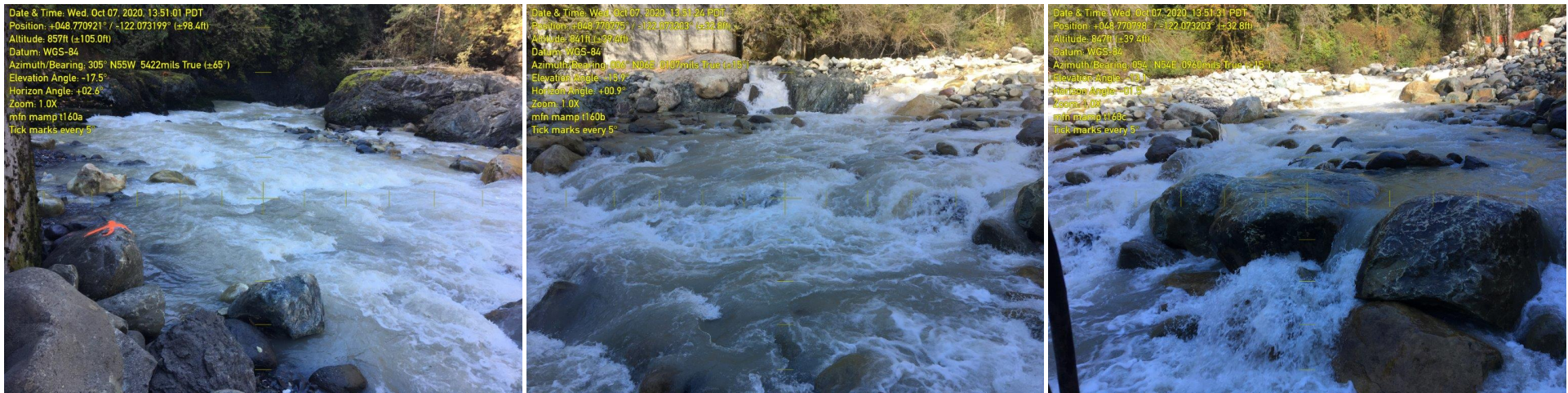
Transect 141



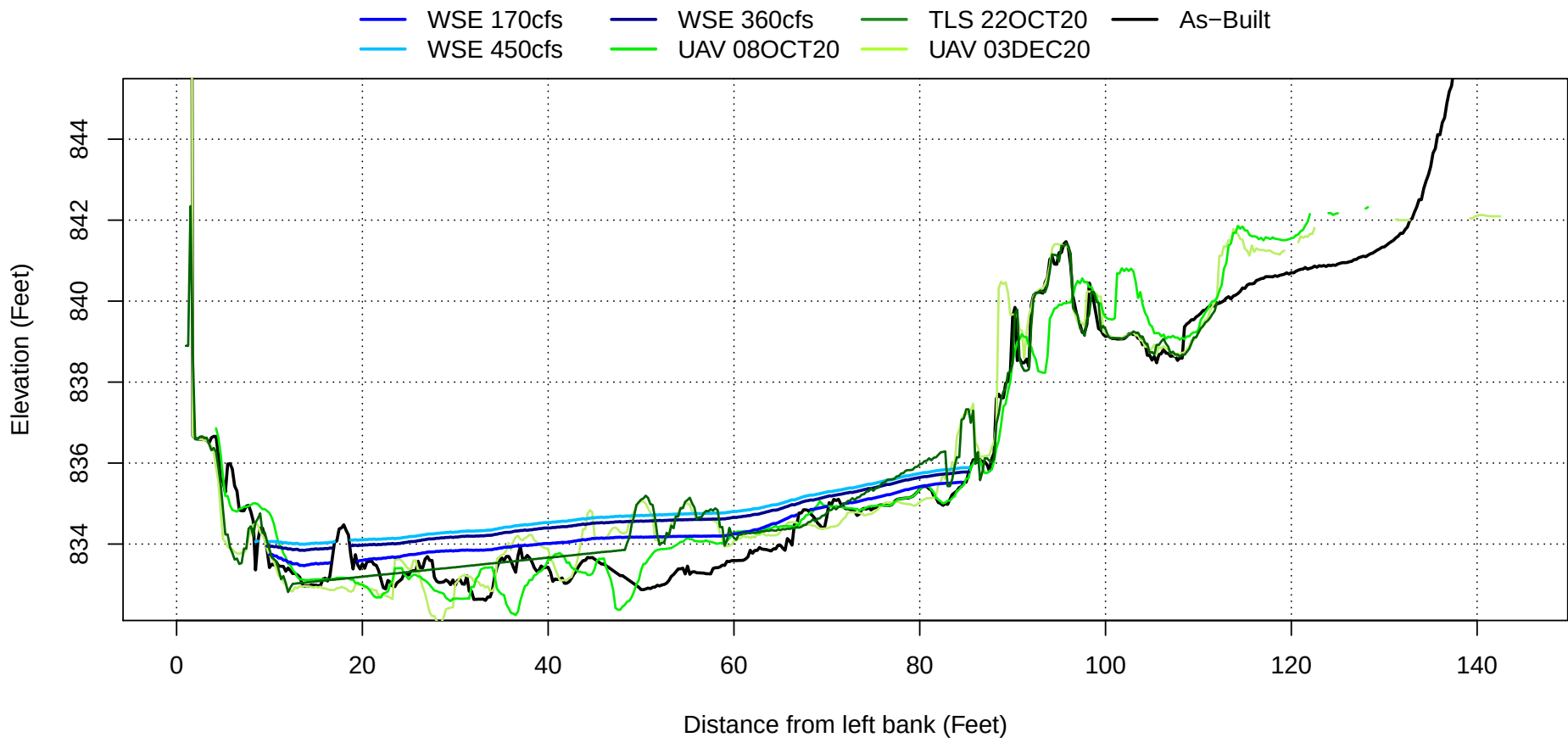
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



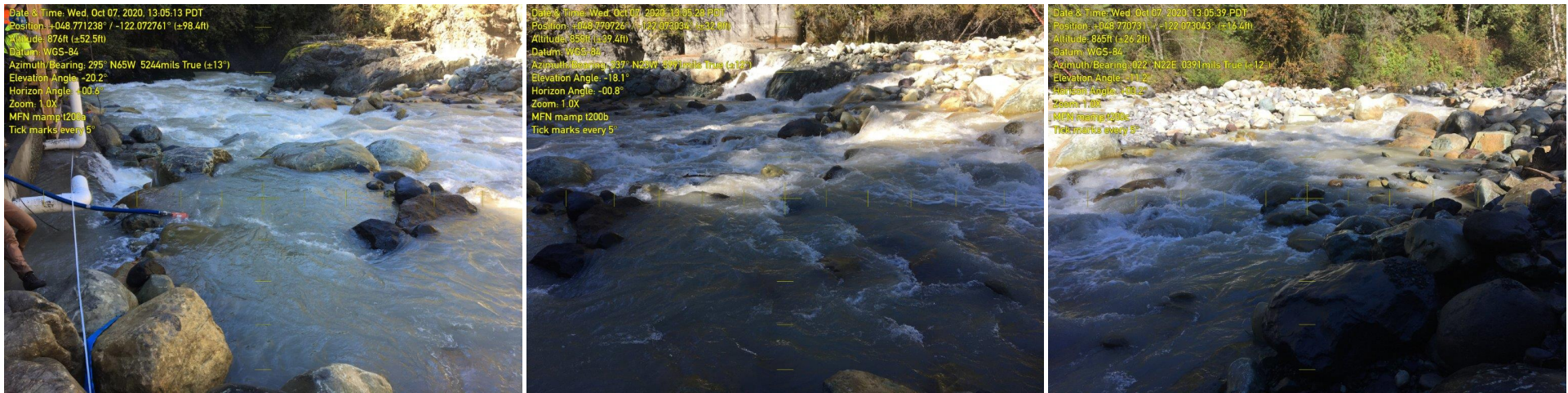
Transect 160



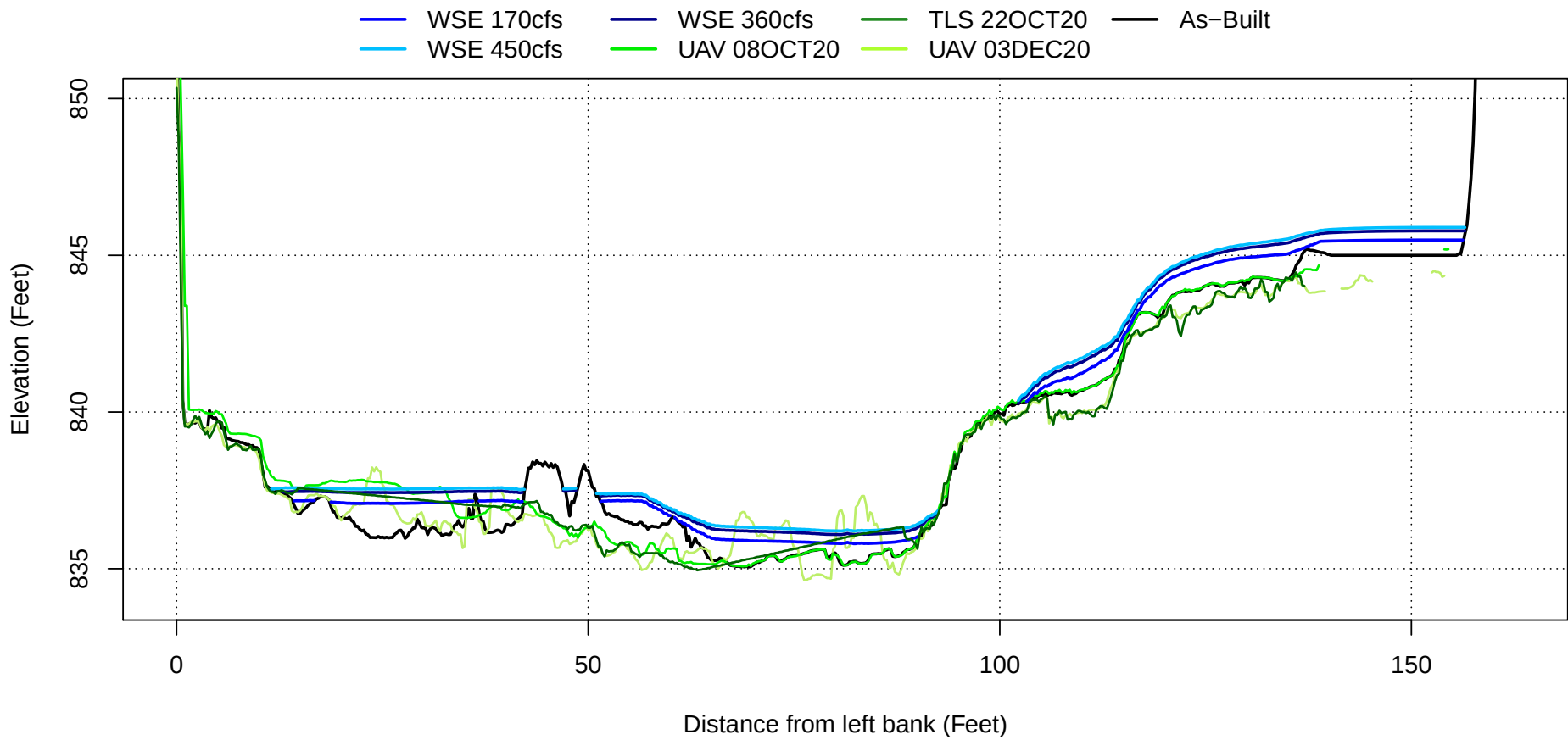
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



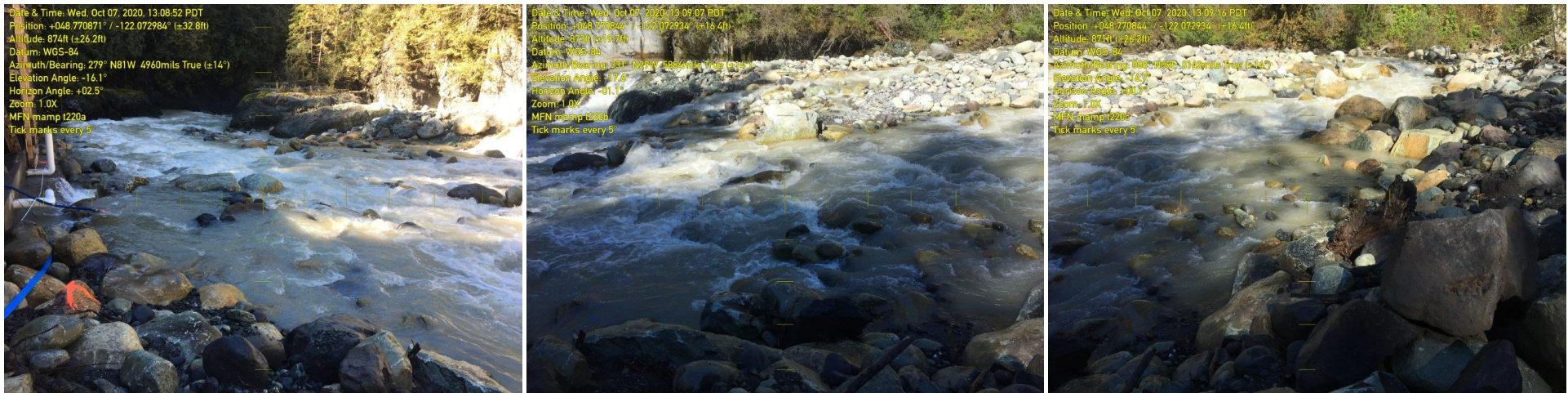
Transect 200



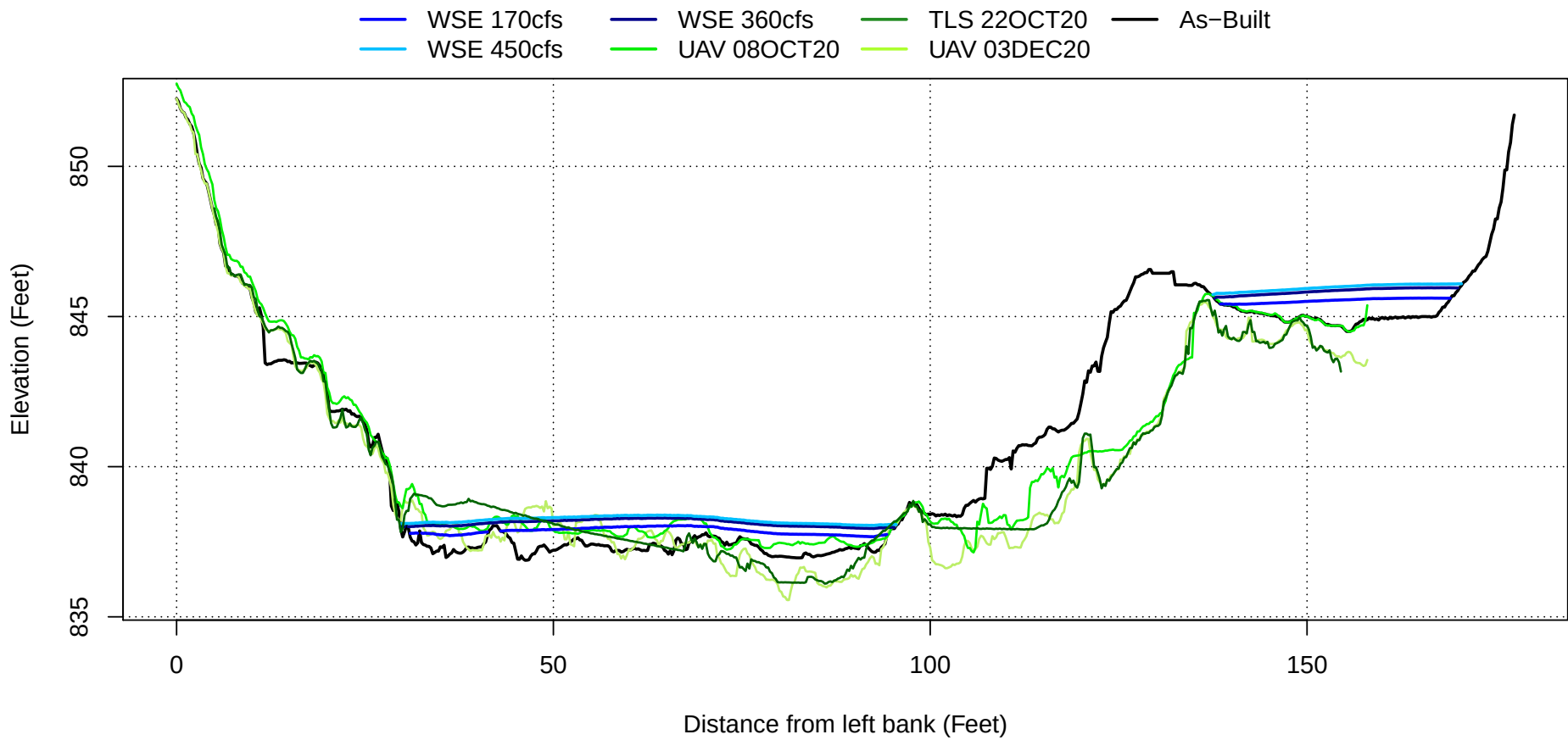
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 220



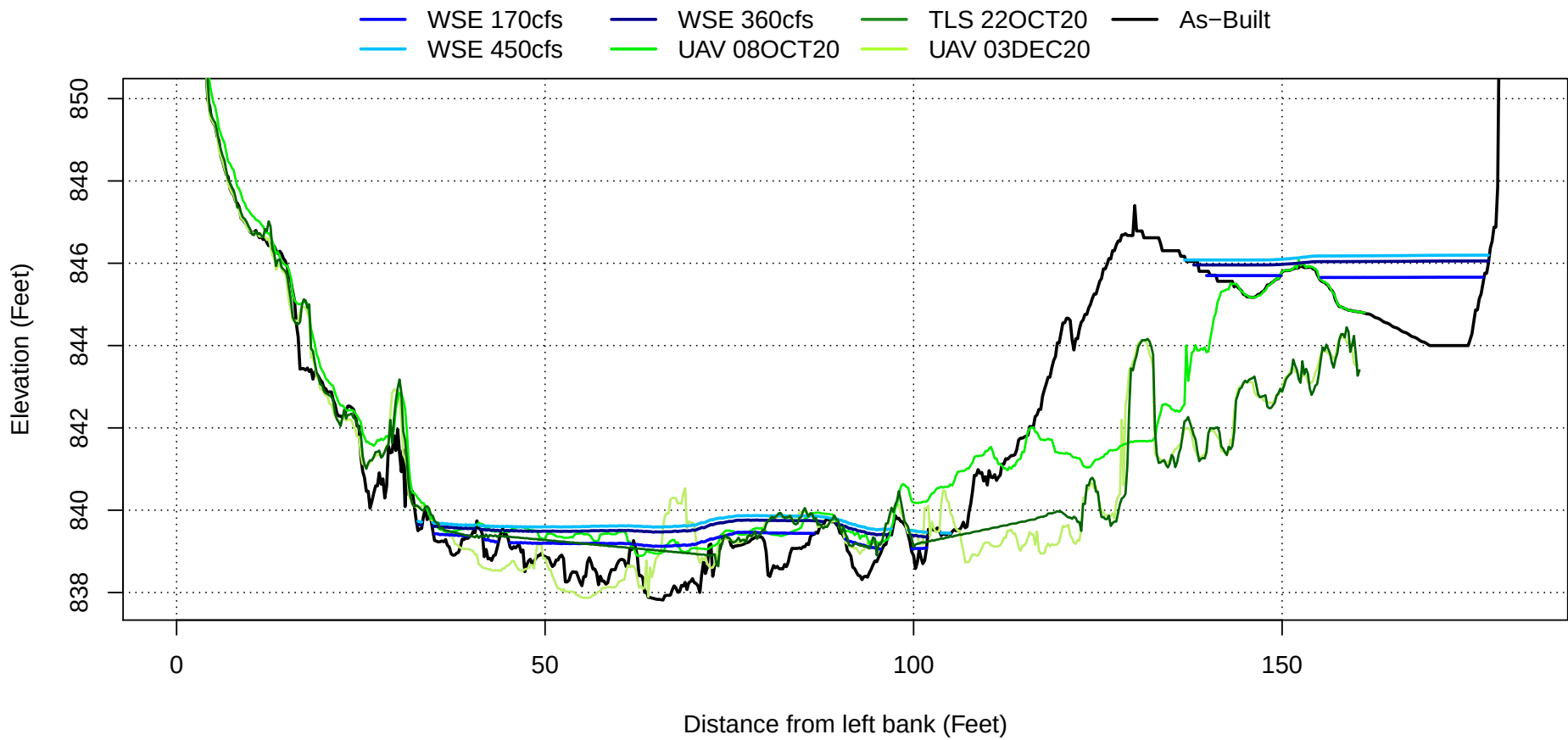
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



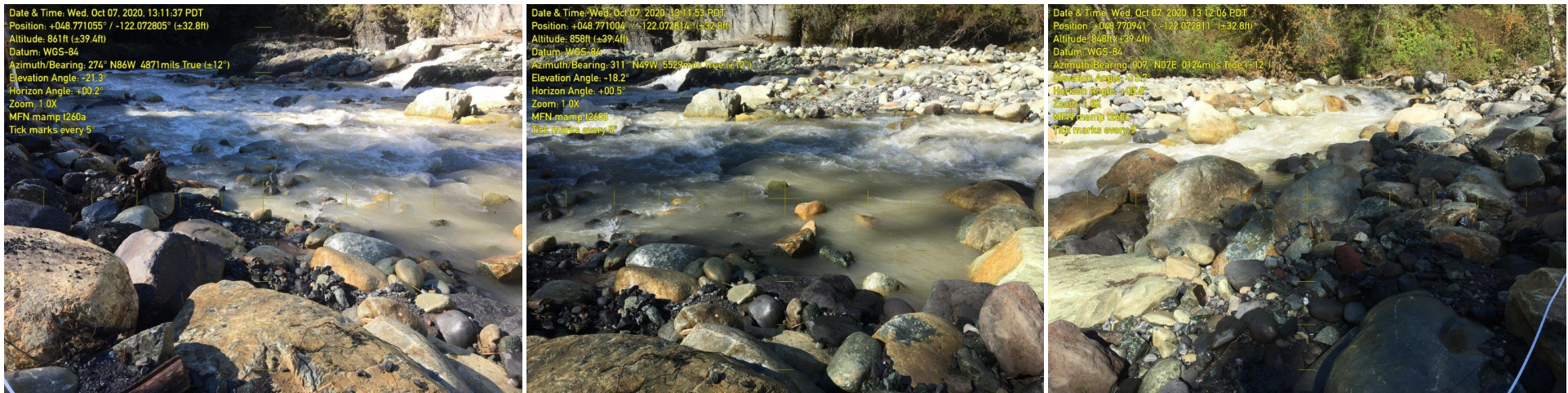
Transect 241



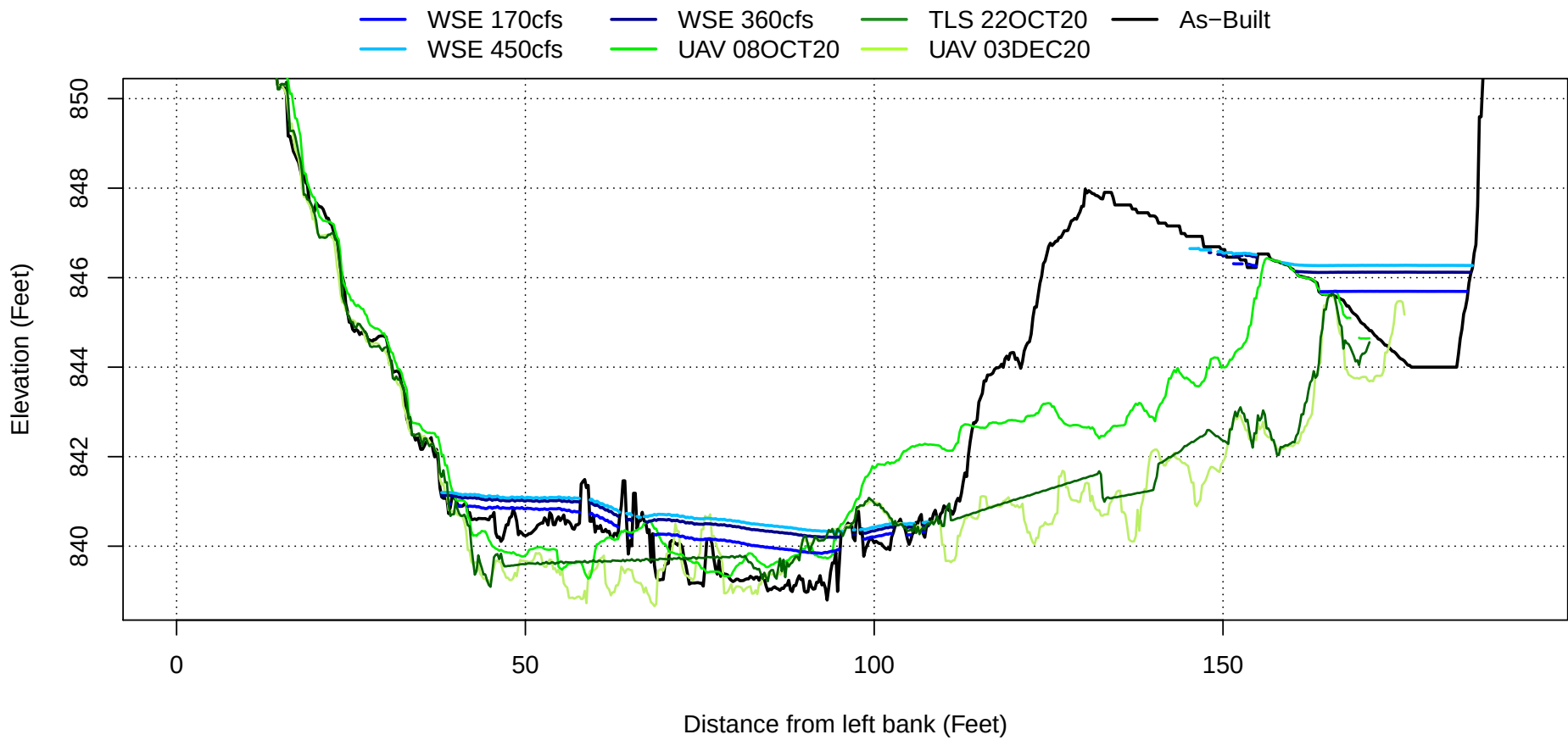
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



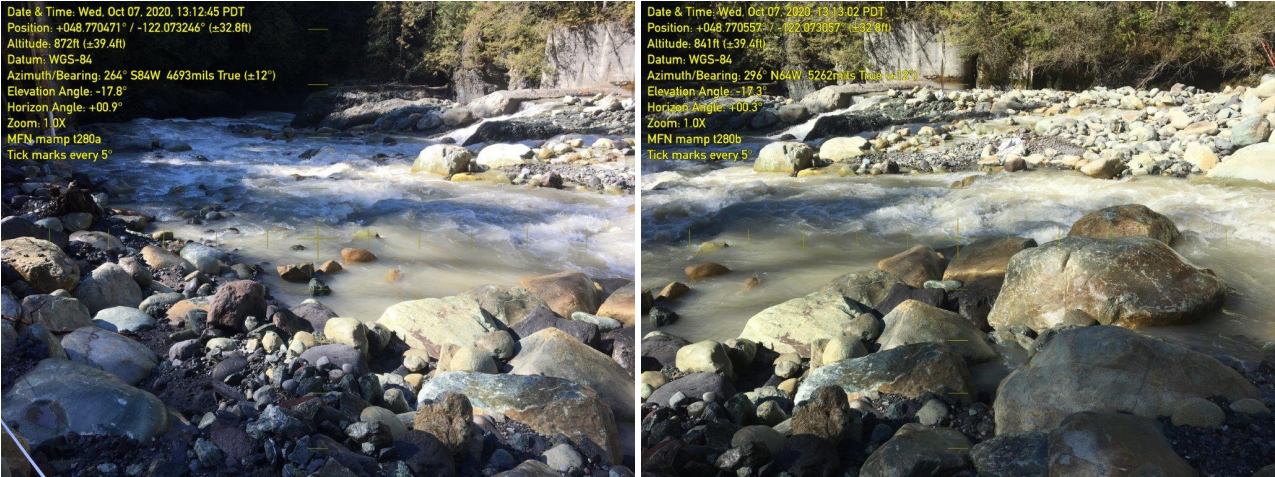
Transect 260



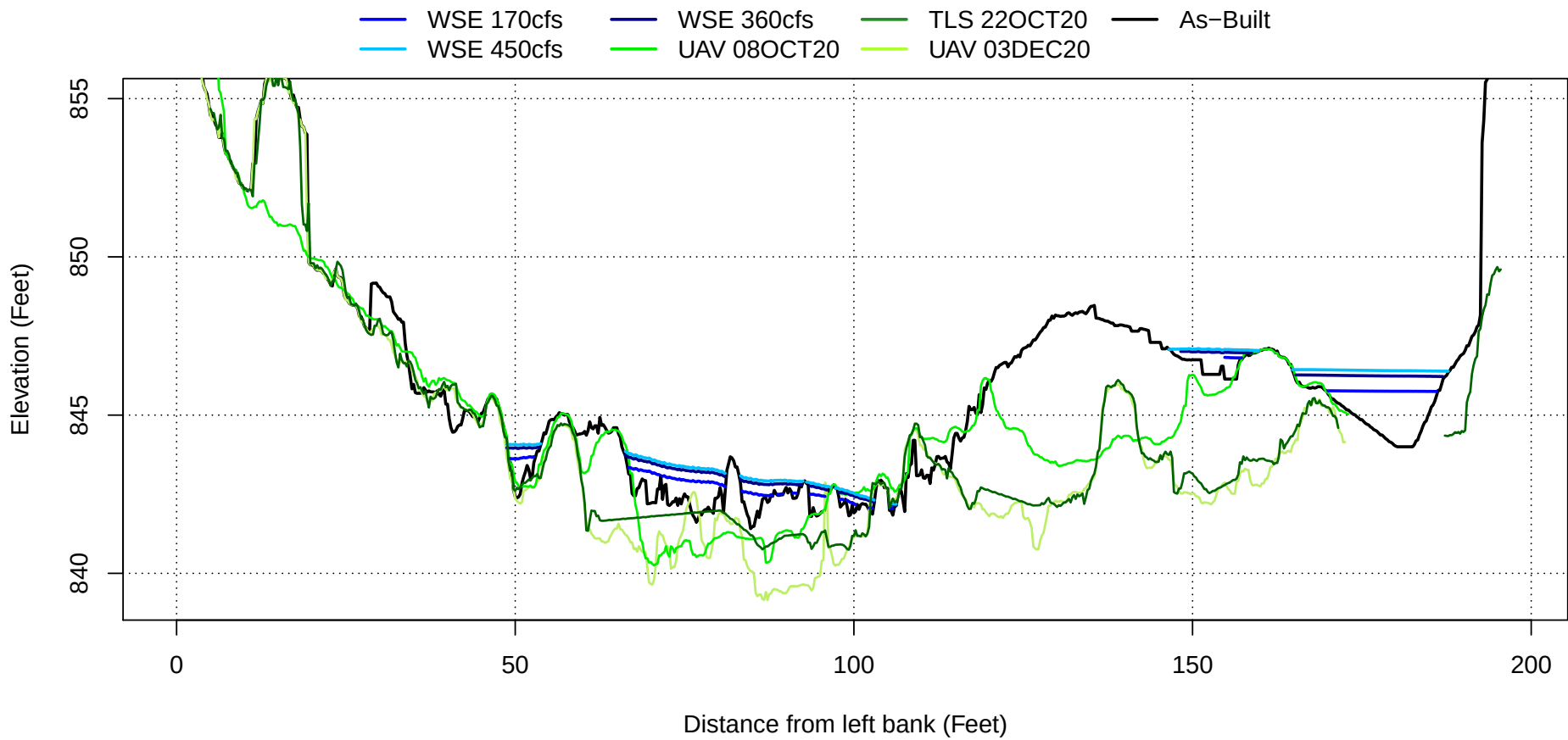
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



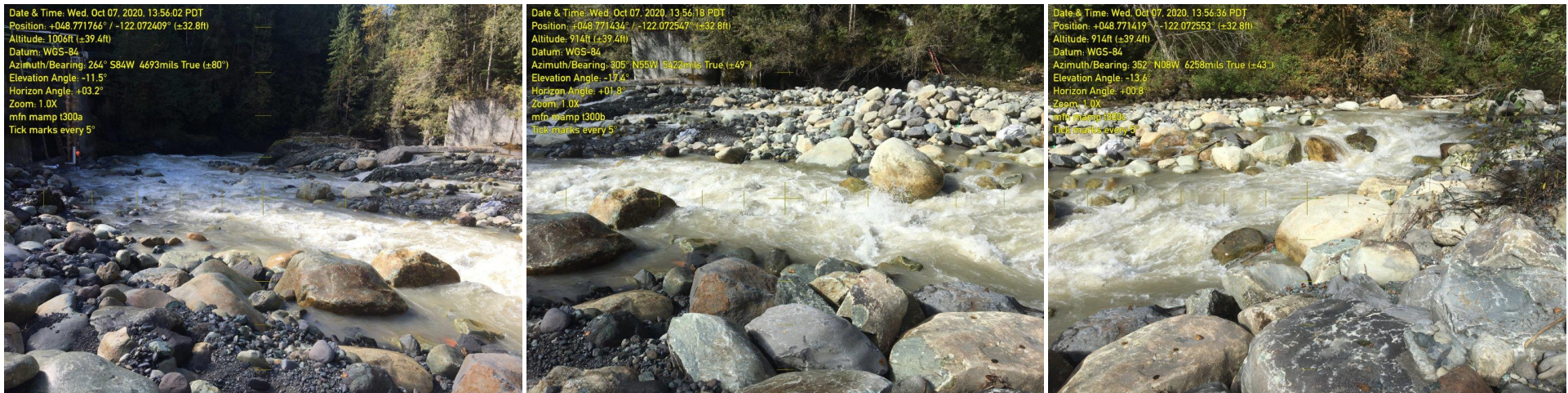
Transect 280



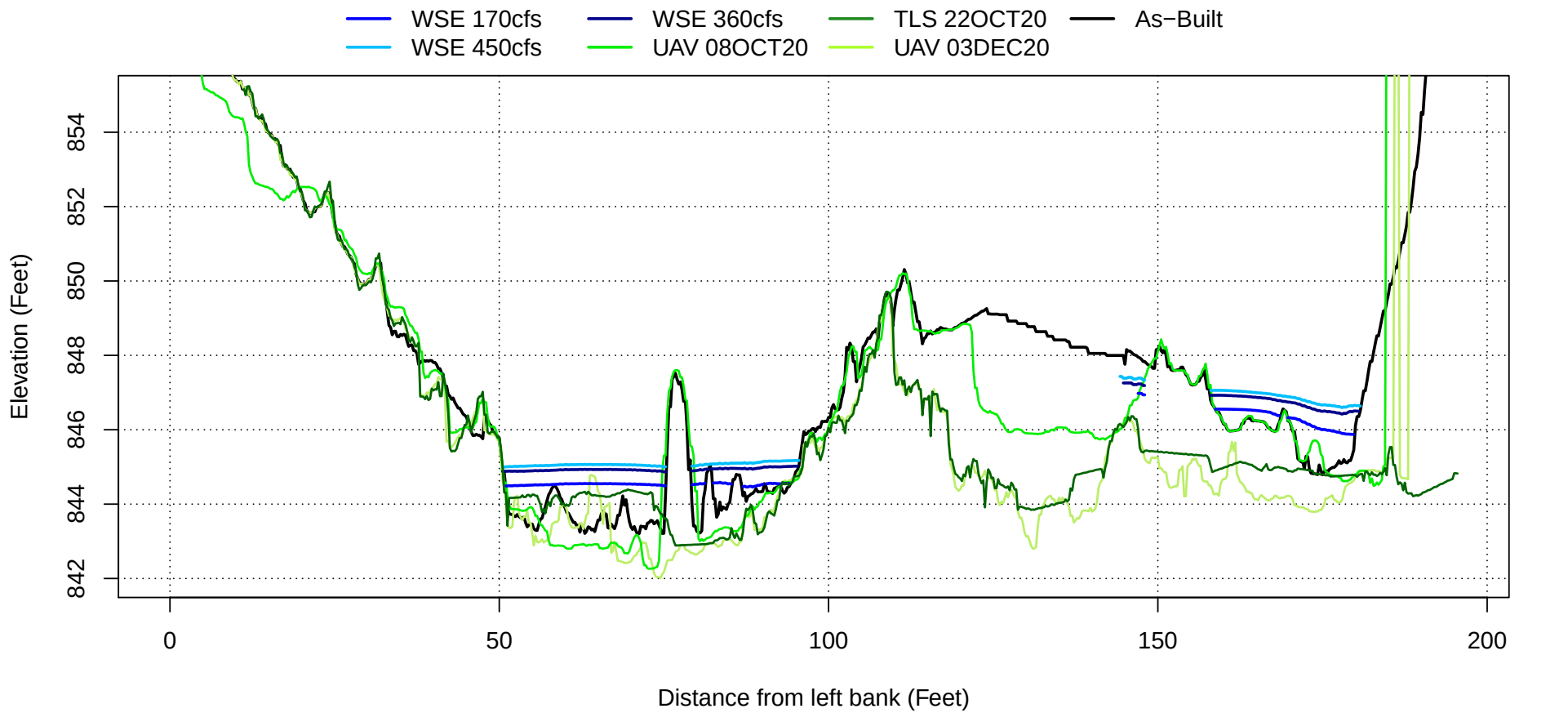
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



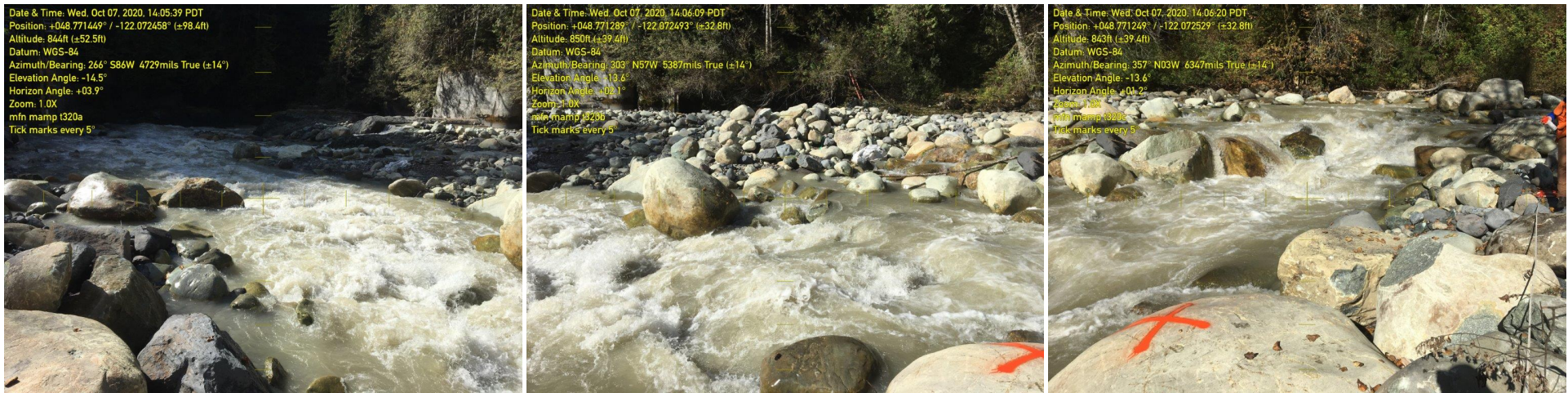
Transect 300



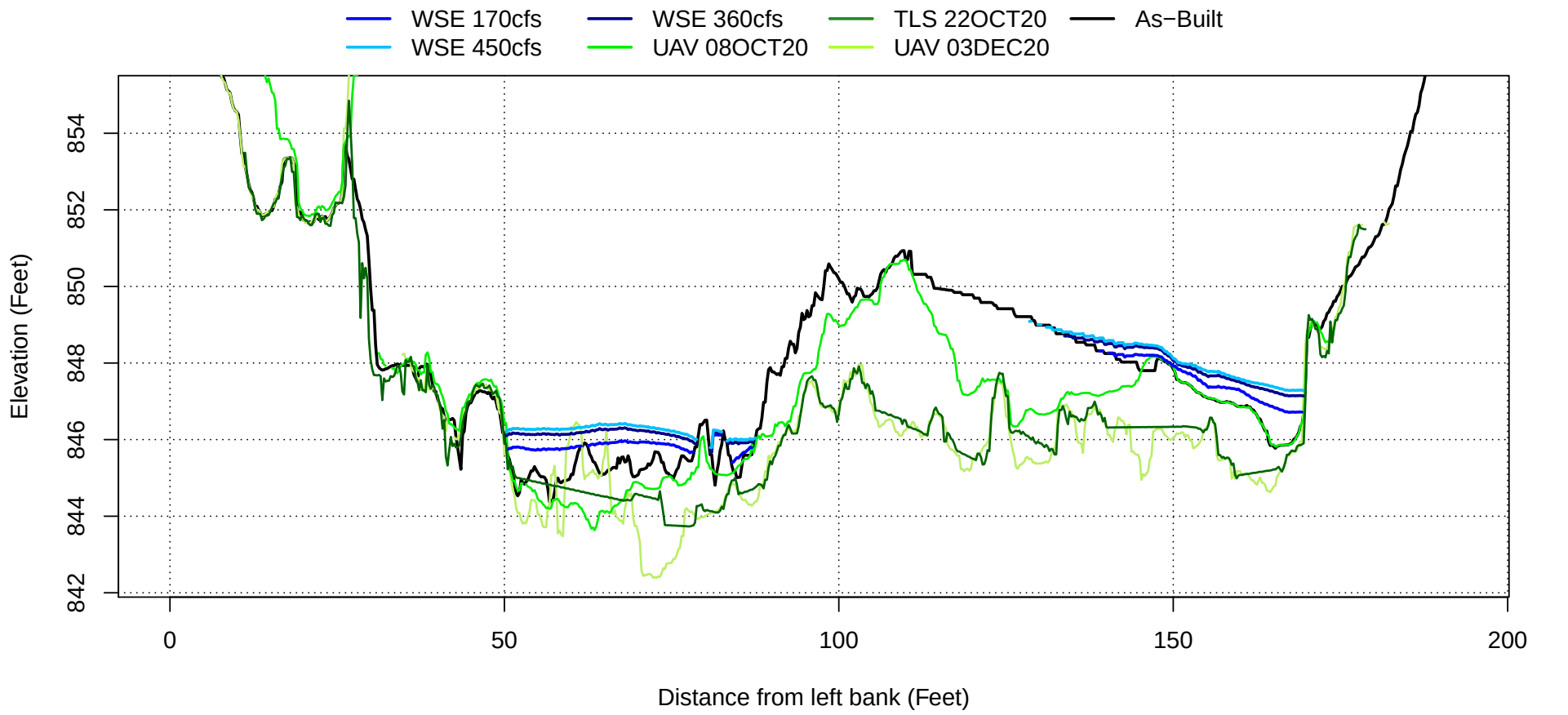
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



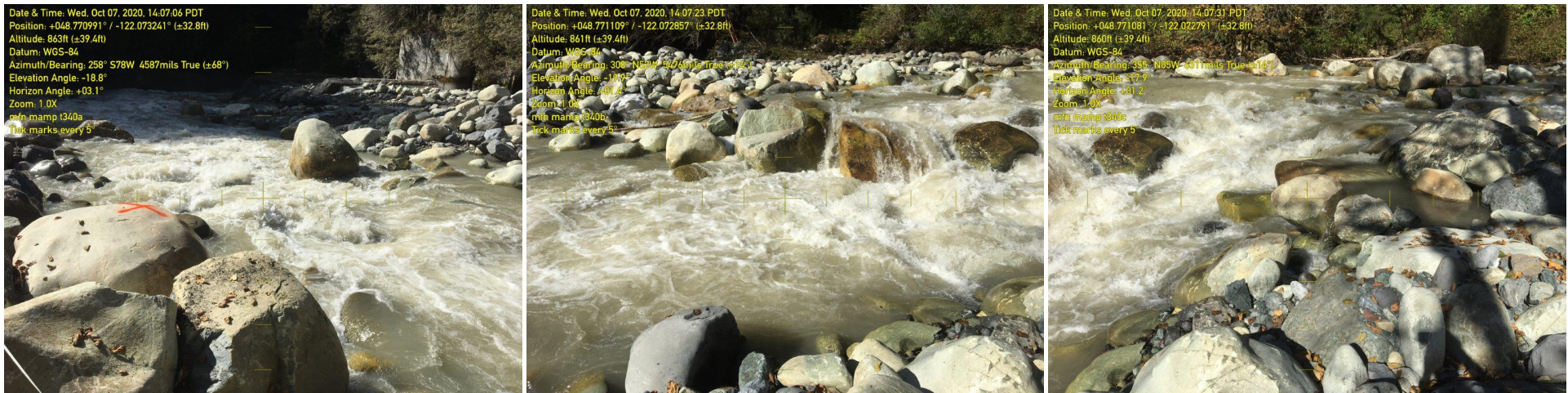
Transect 320



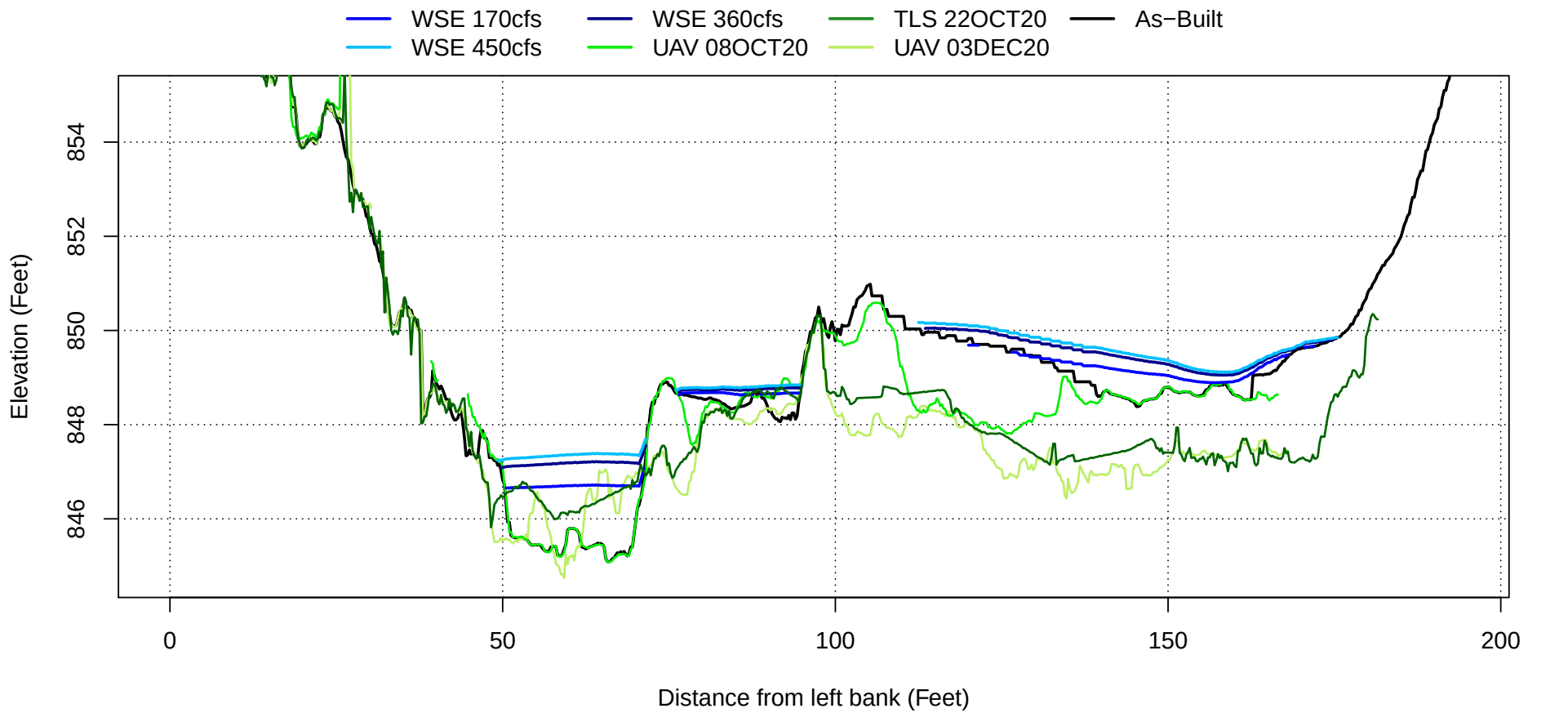
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



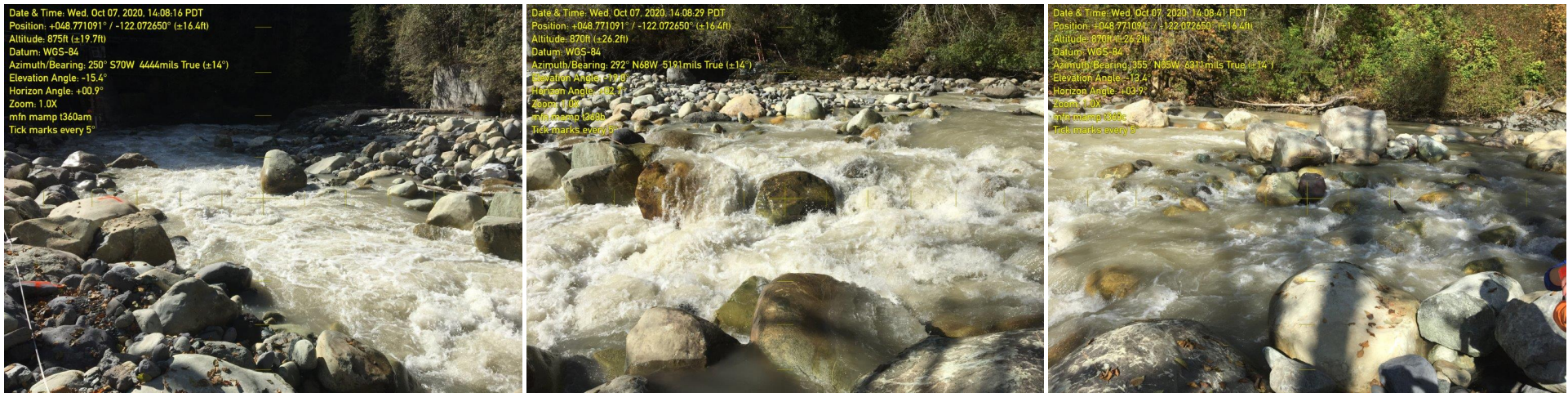
Transect 340



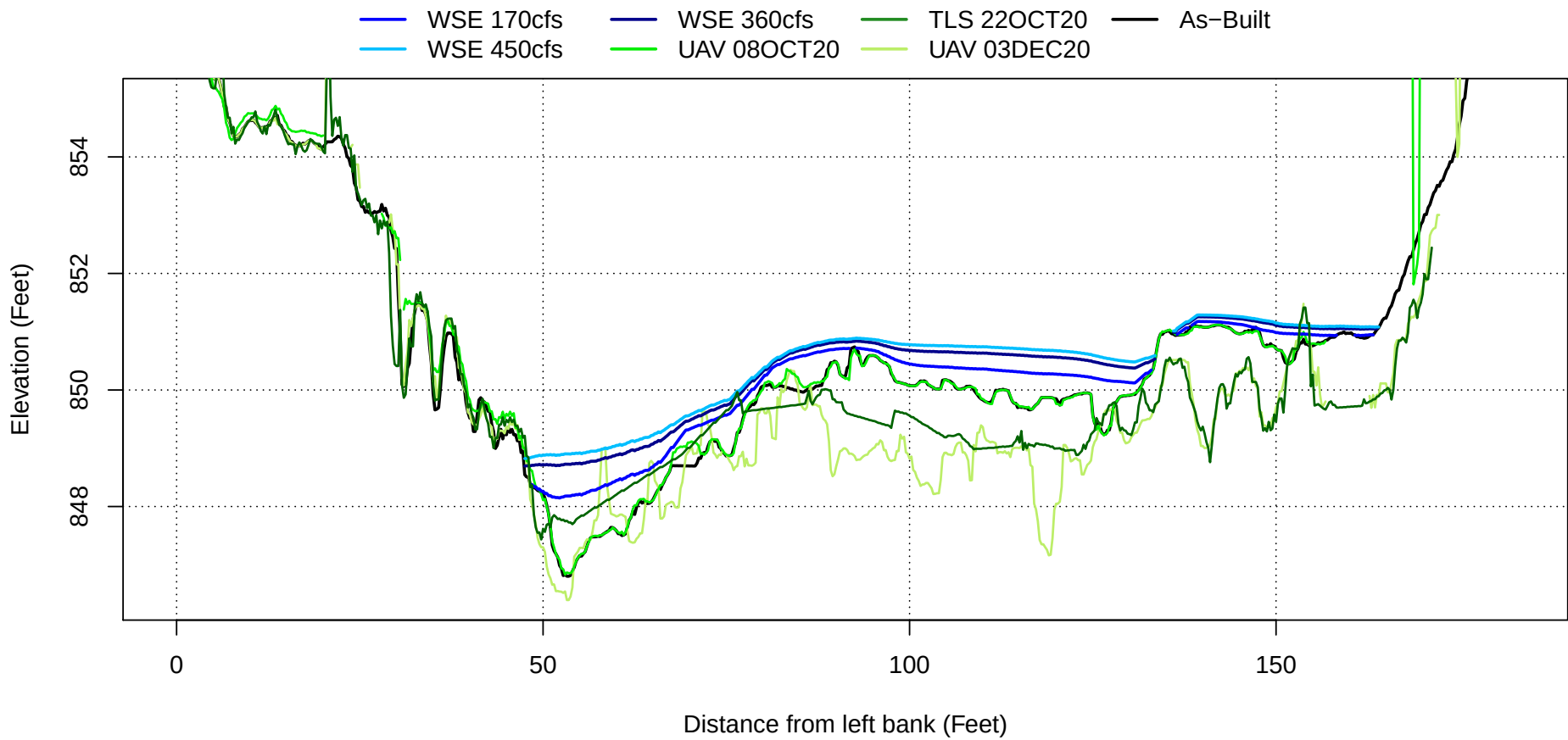
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



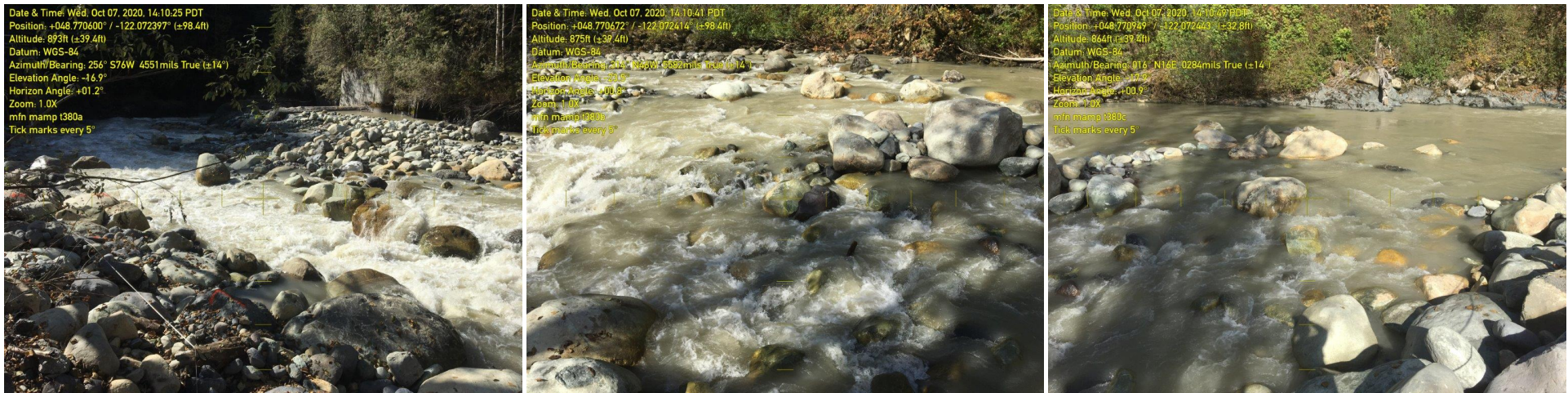
Transect 360



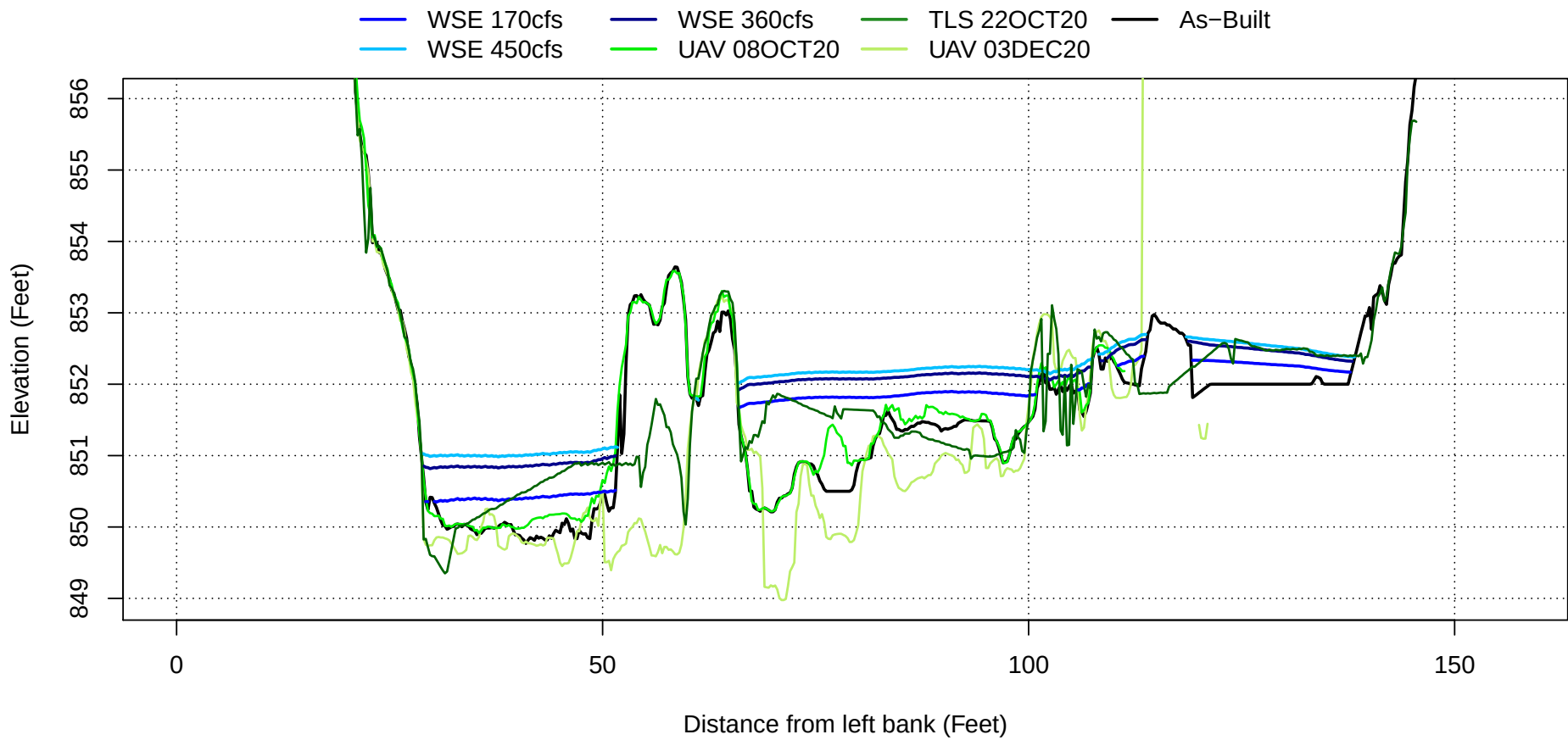
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 380



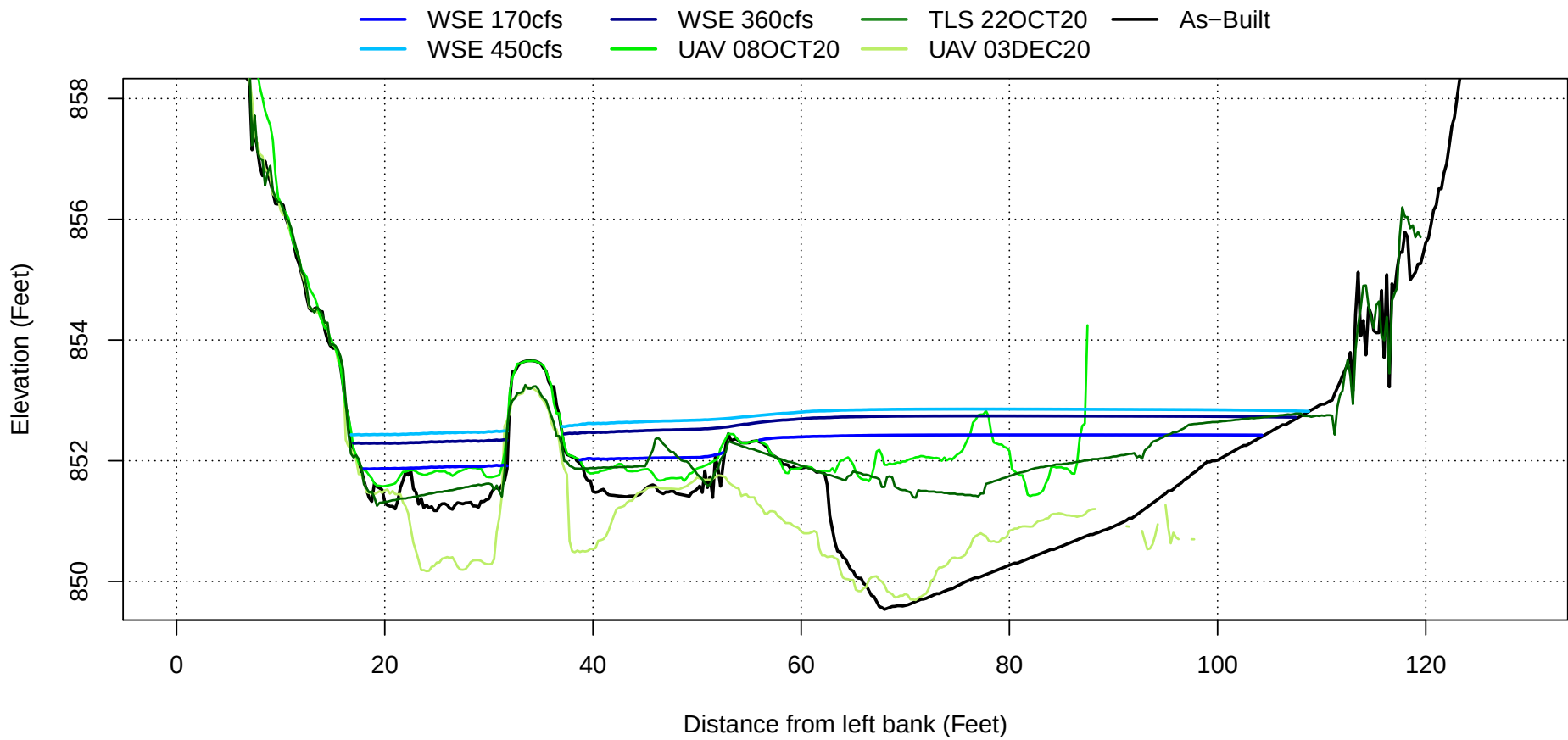
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



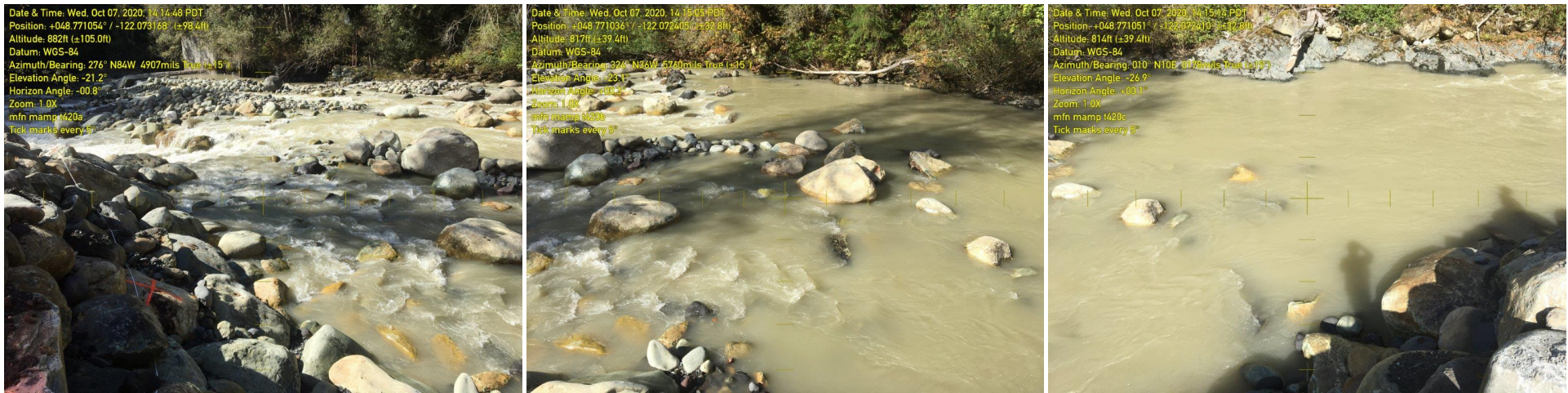
Transect 400



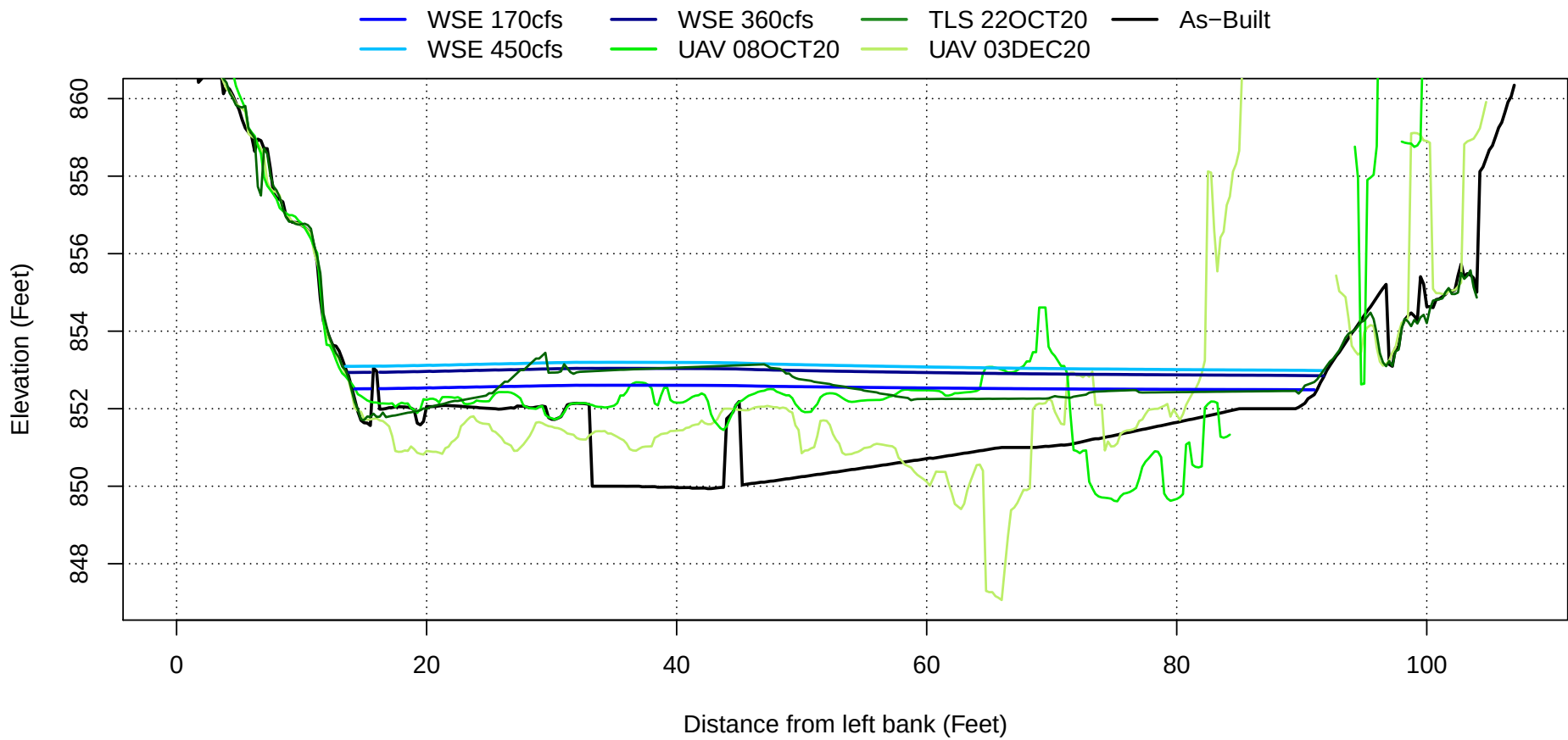
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 420



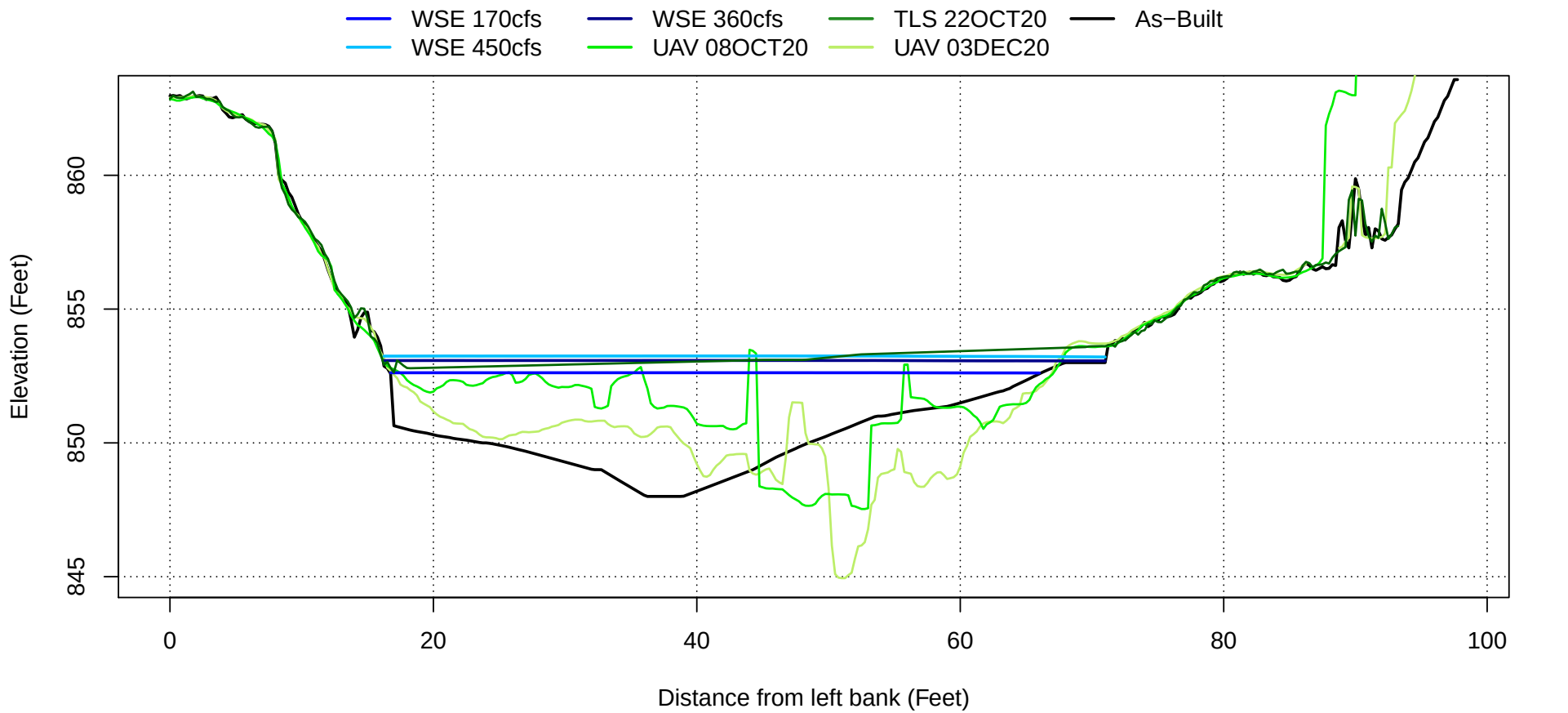
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 437



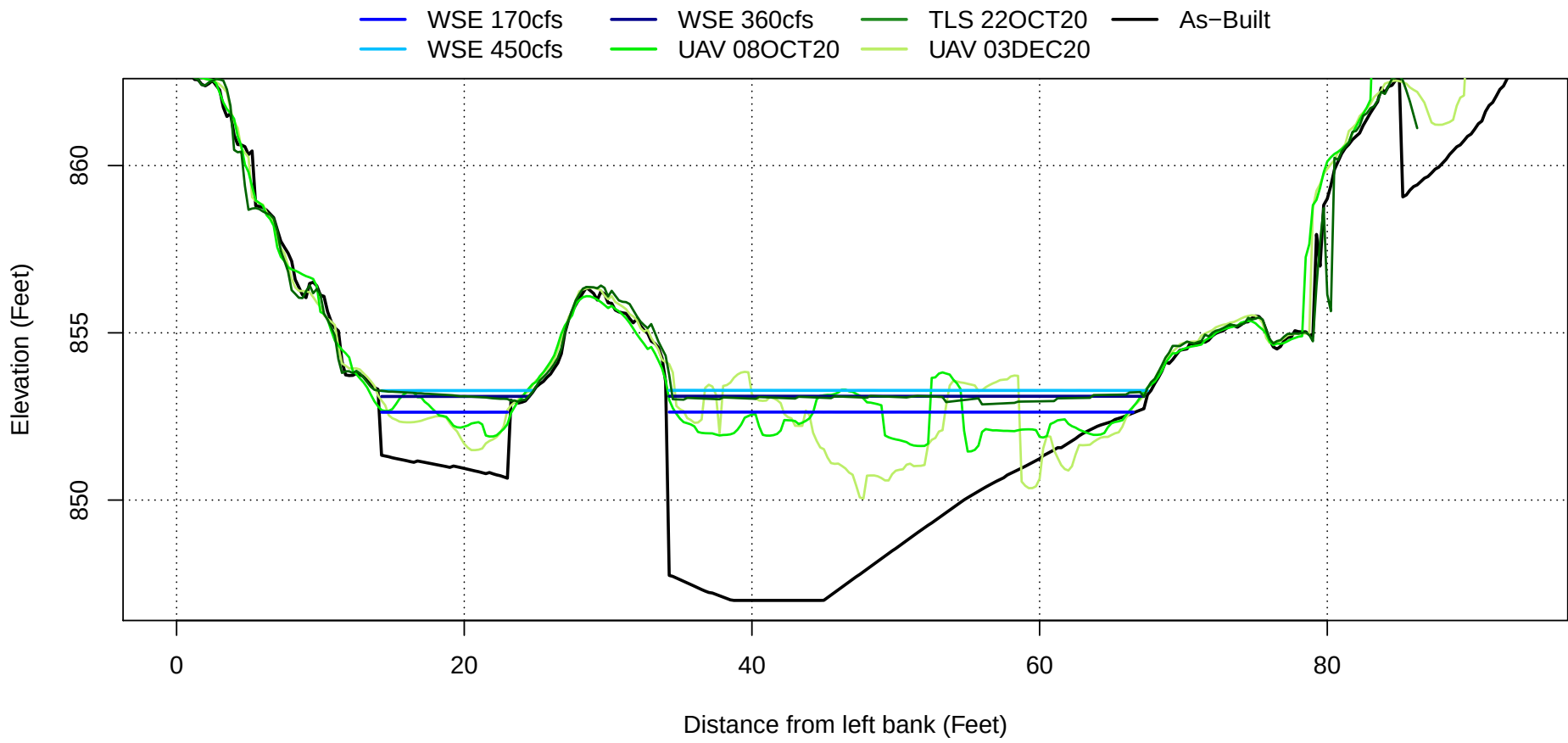
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 460



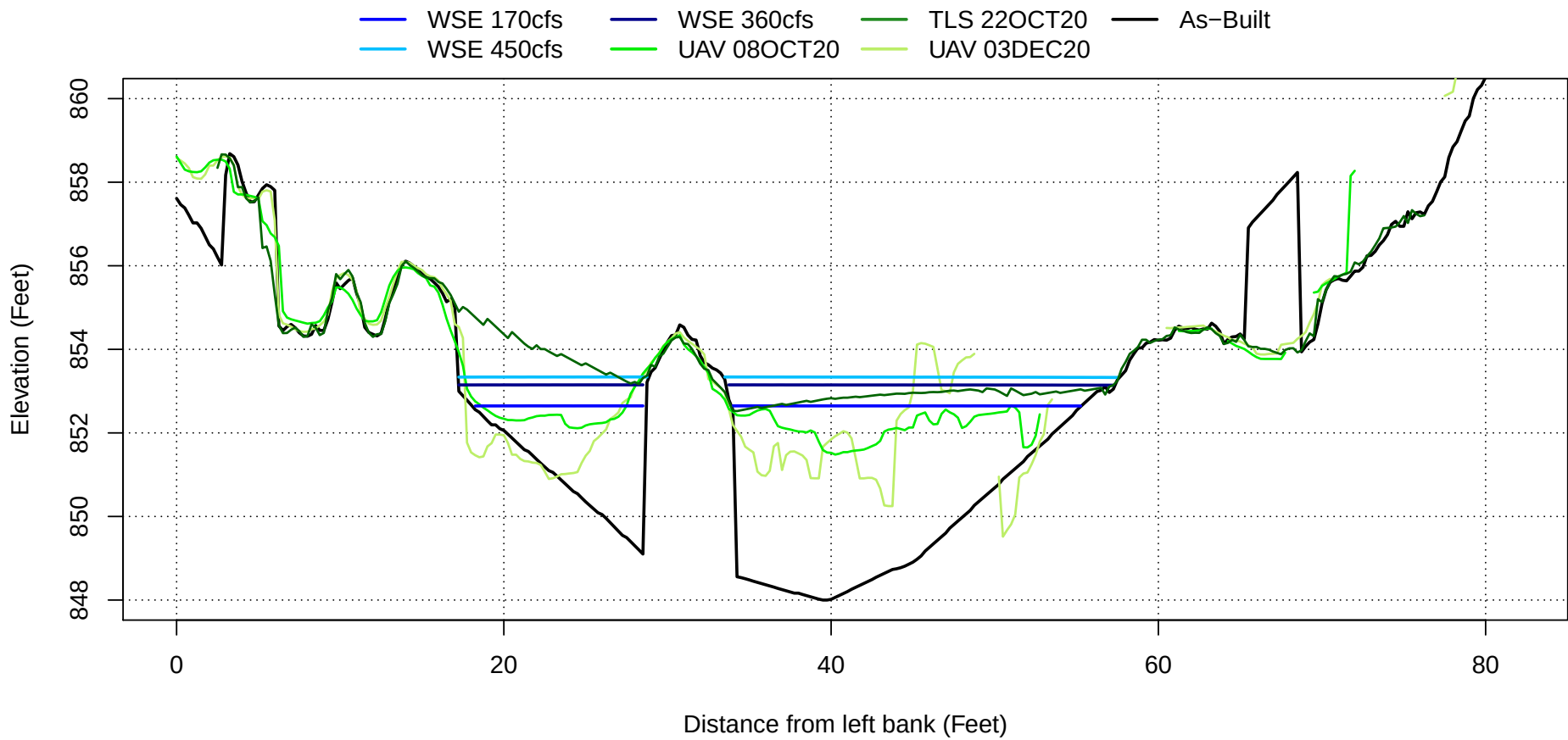
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



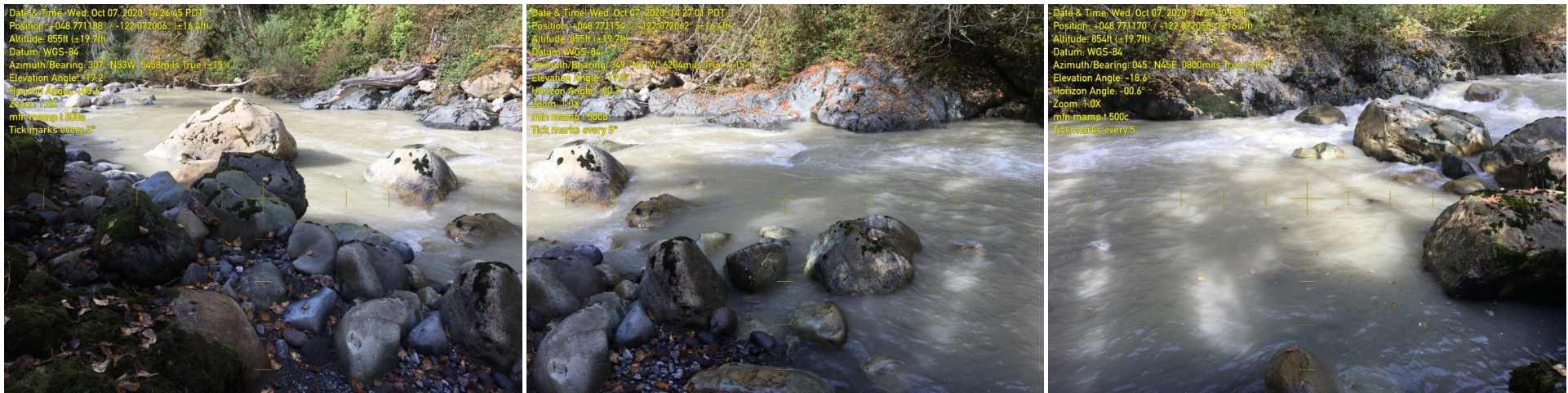
Transect 480



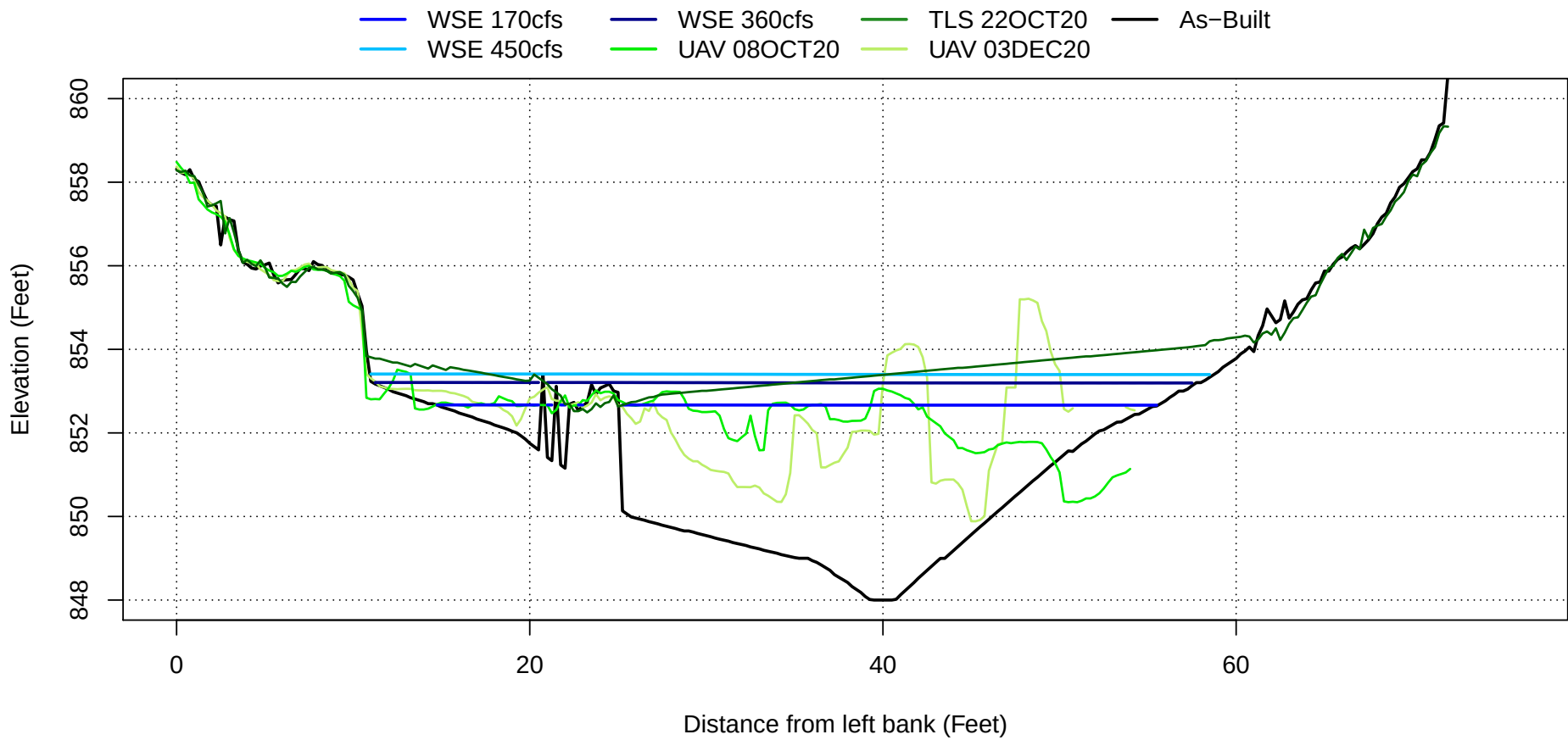
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 500



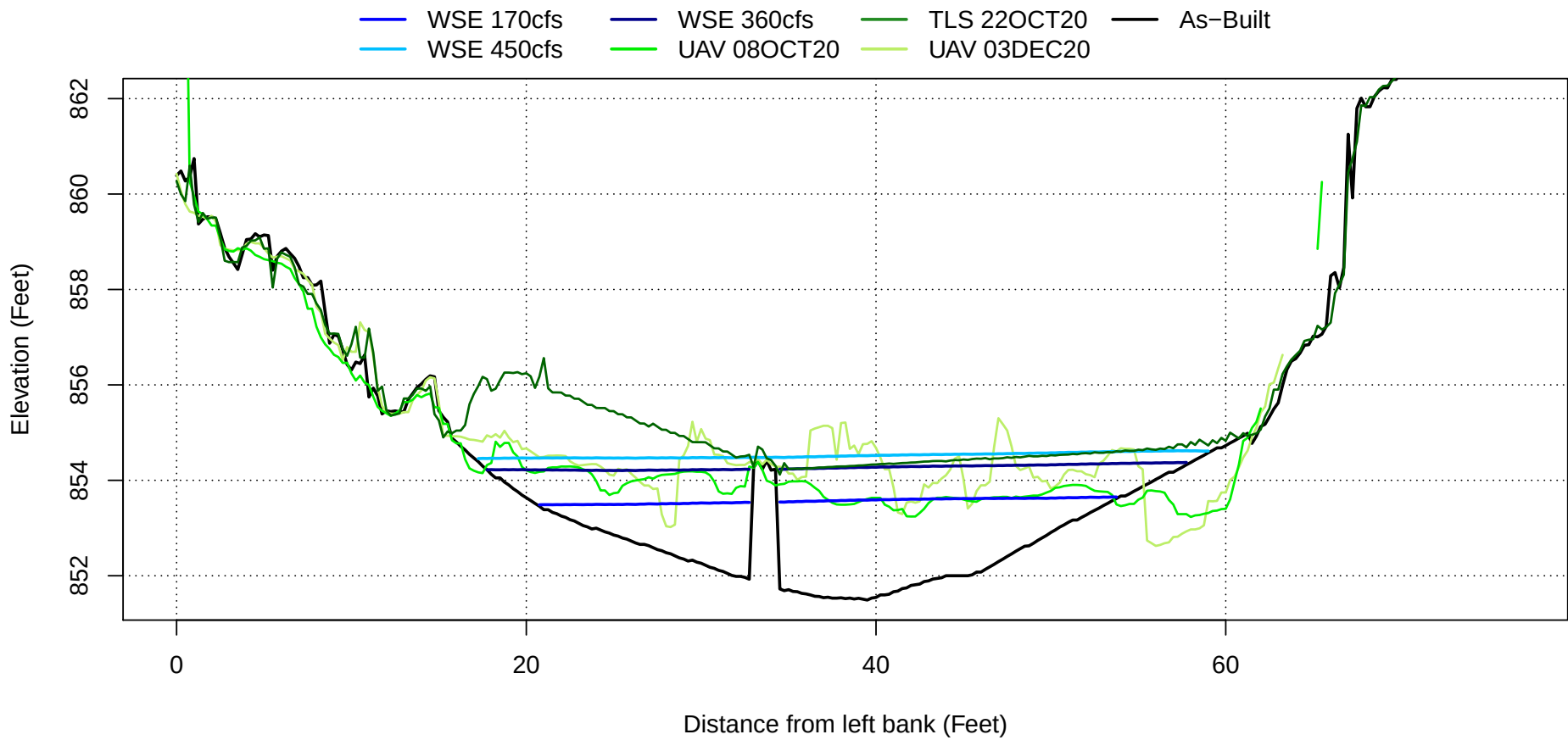
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 520



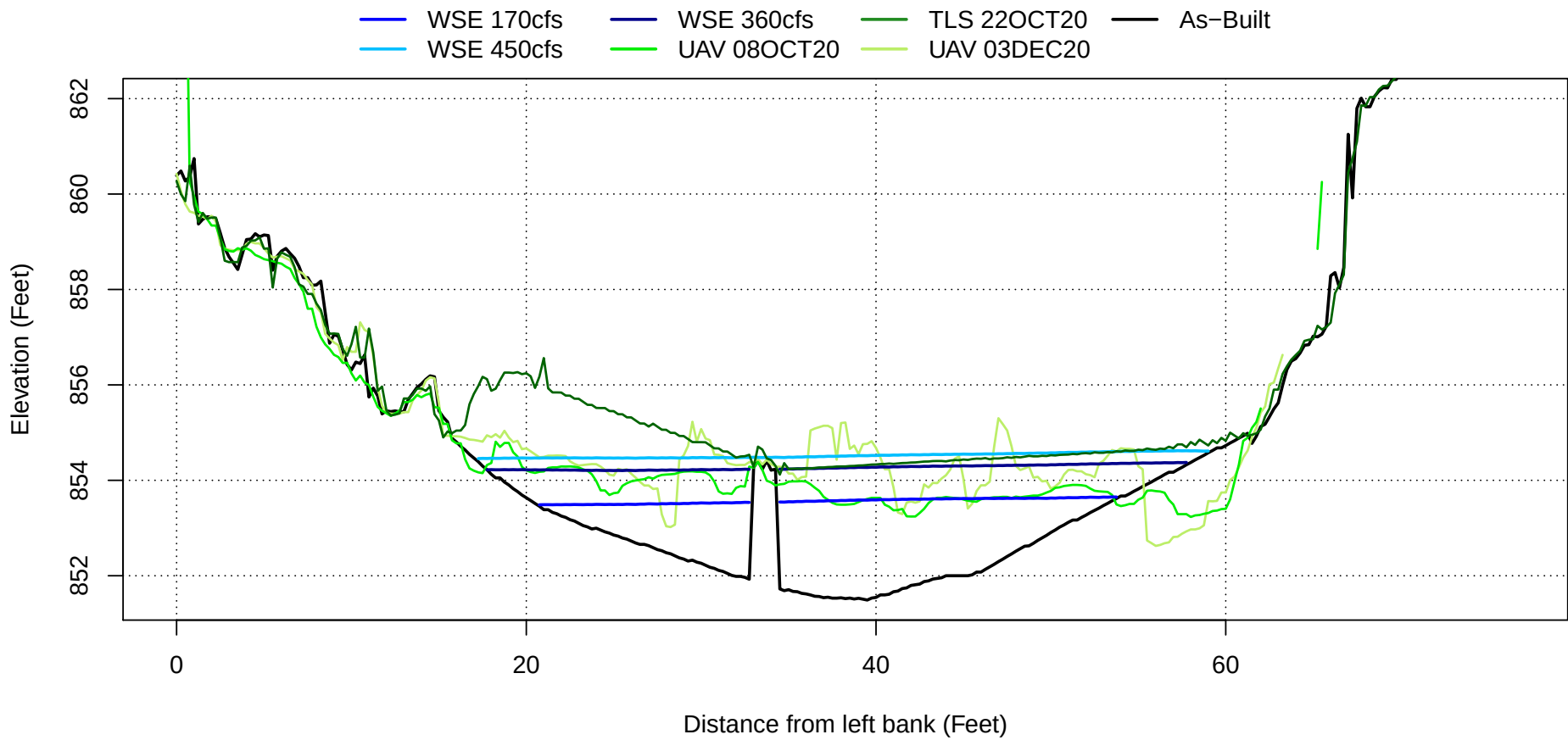
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



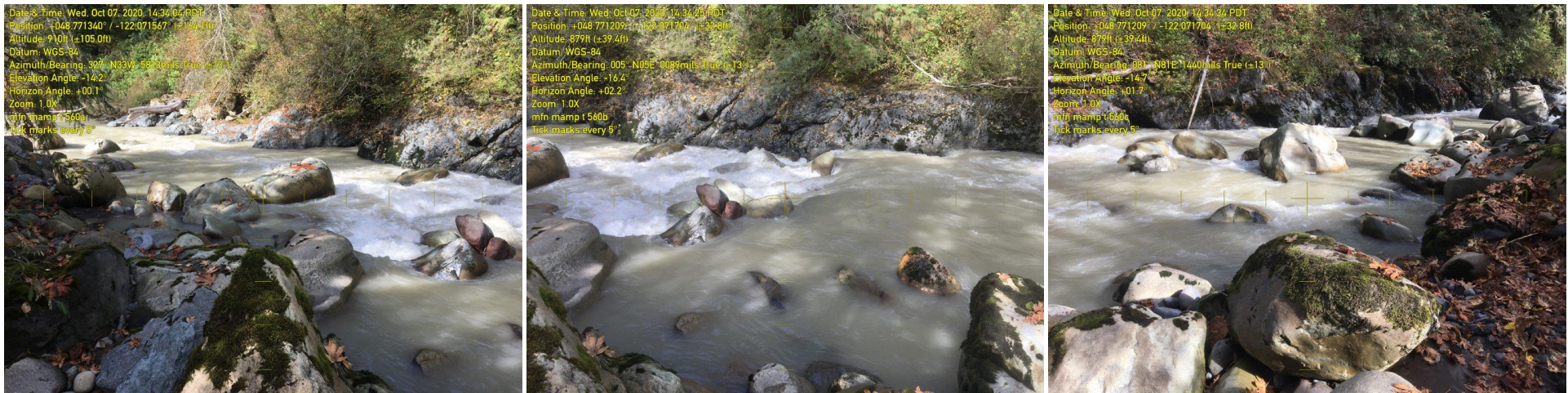
Transect 540



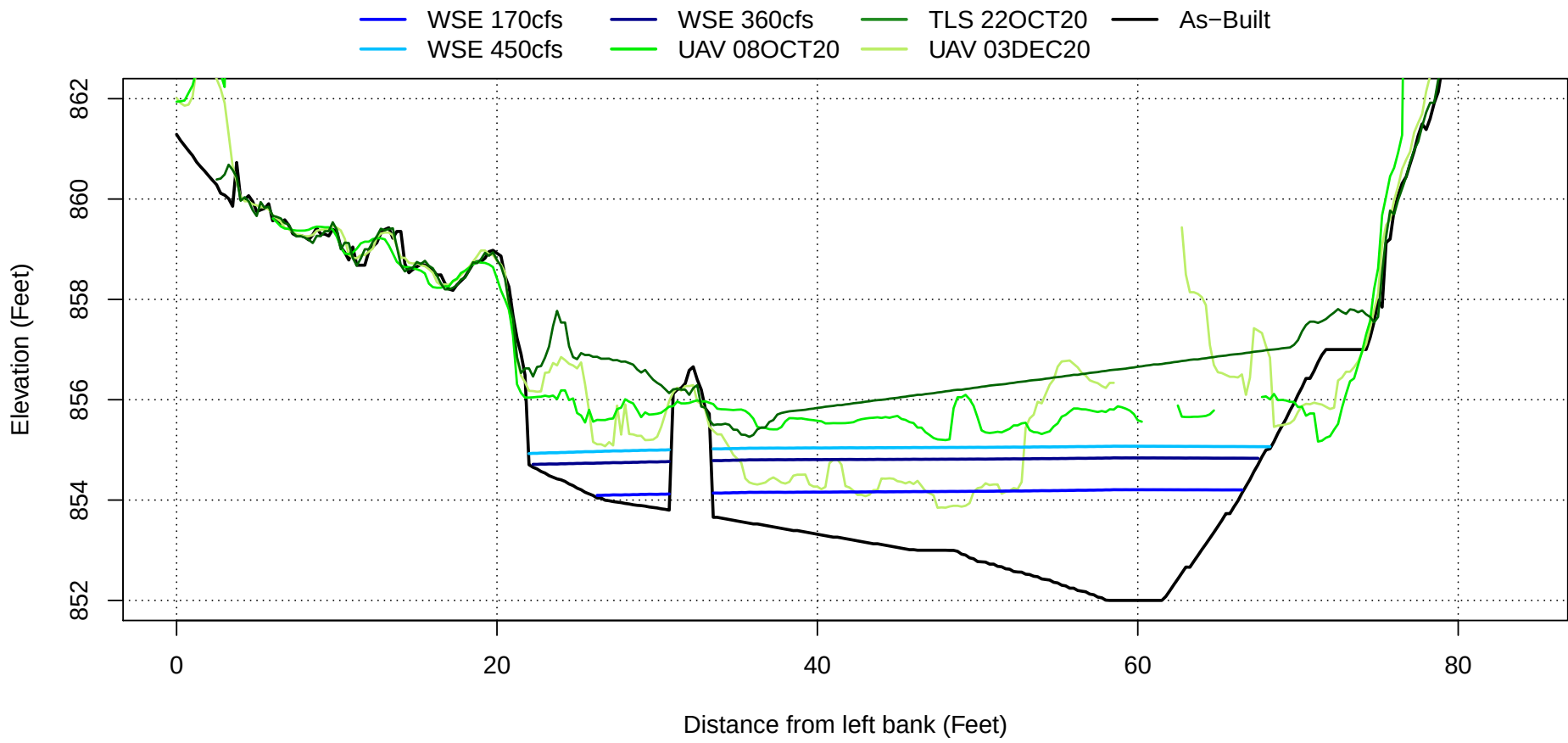
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



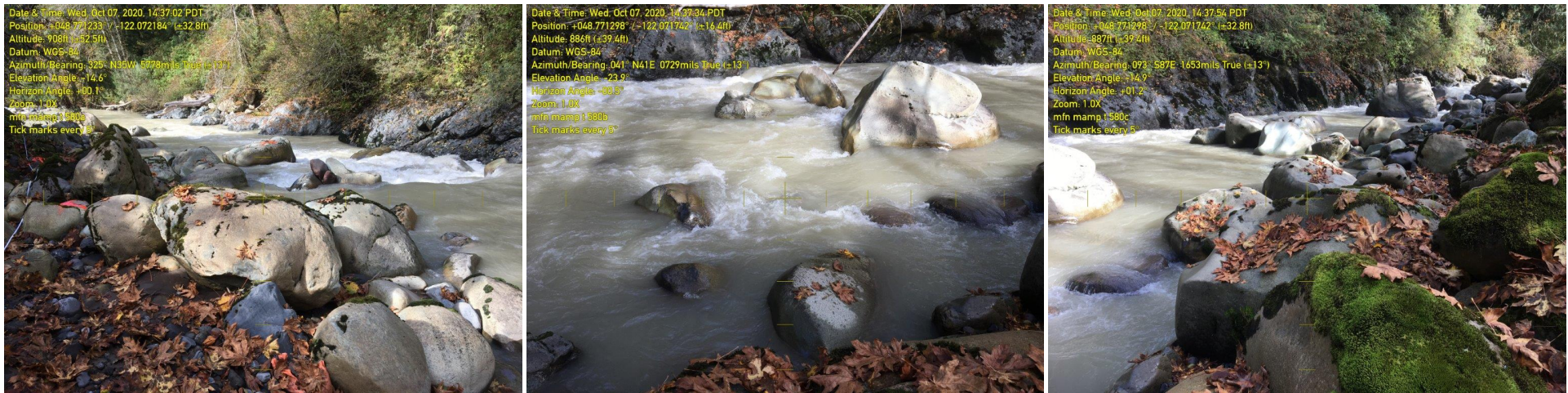
Transect 560



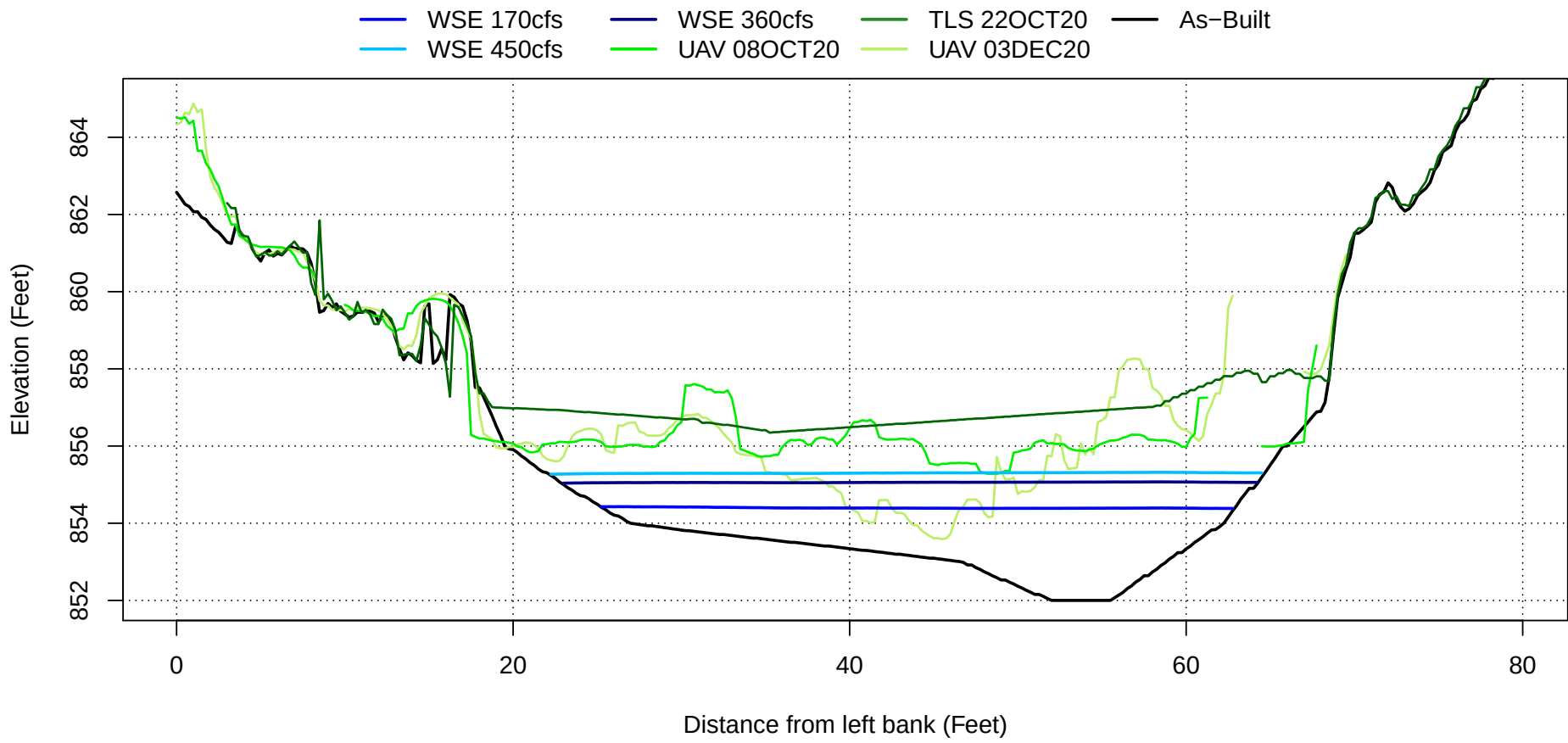
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 580



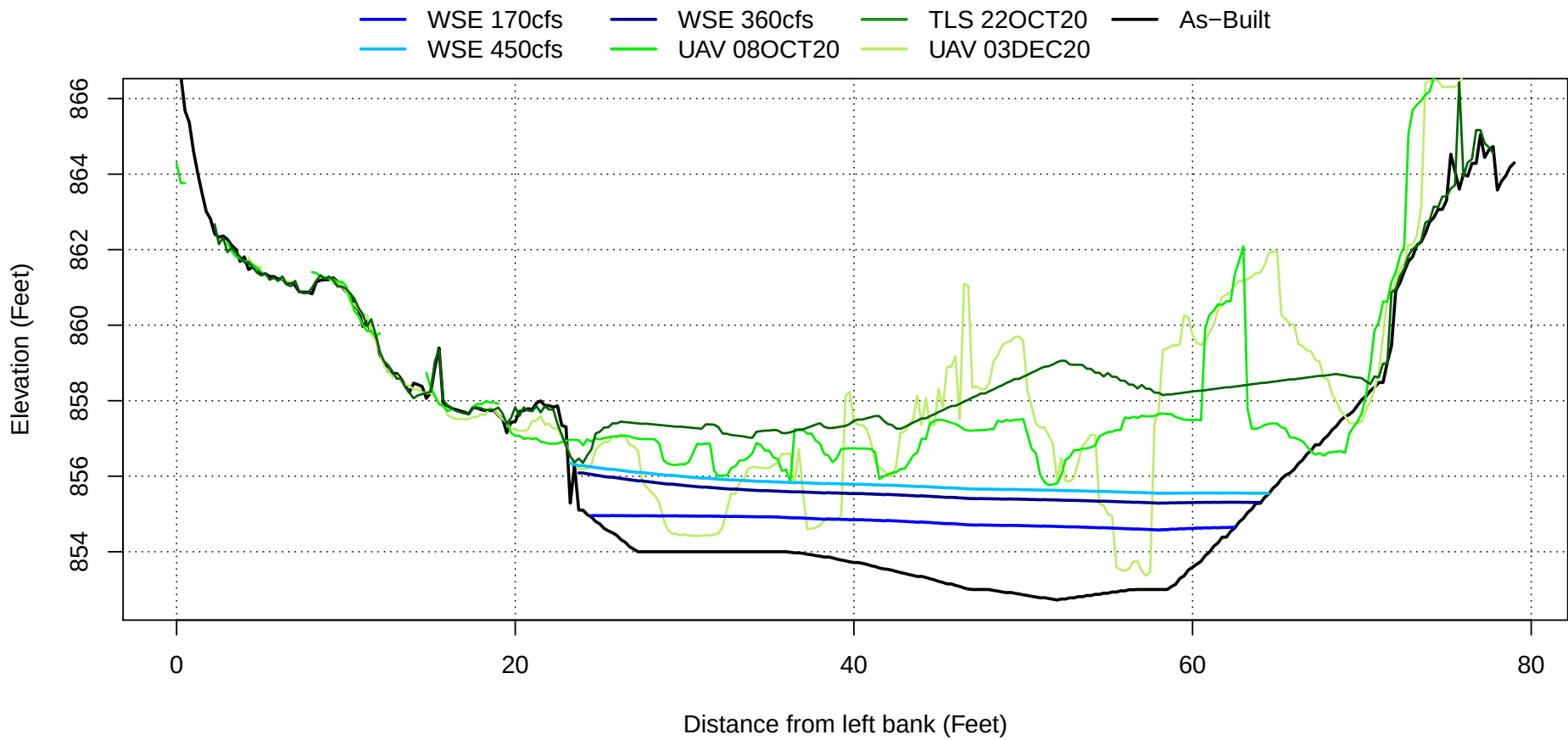
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



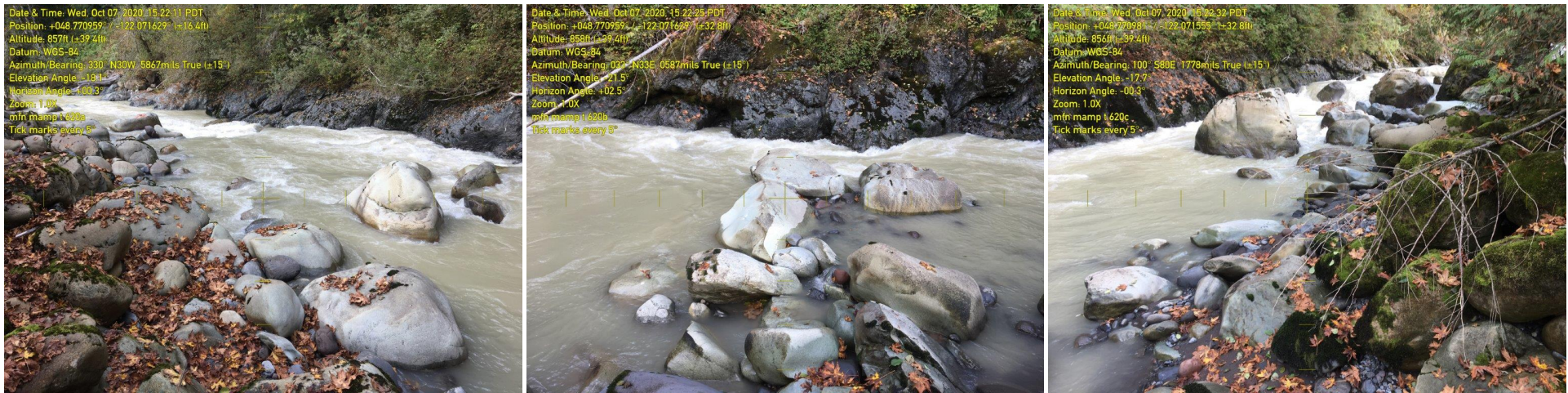
Transect 600



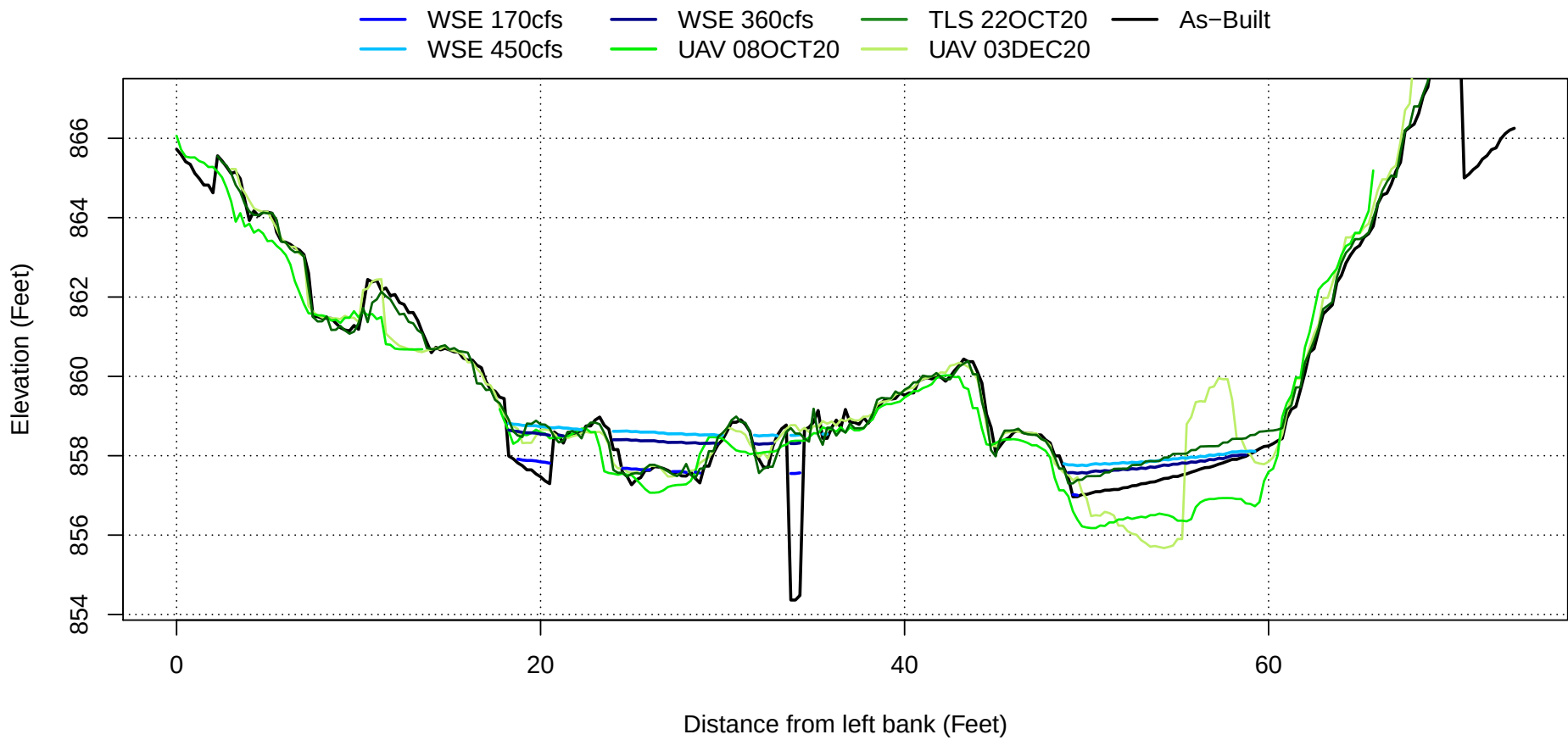
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 620



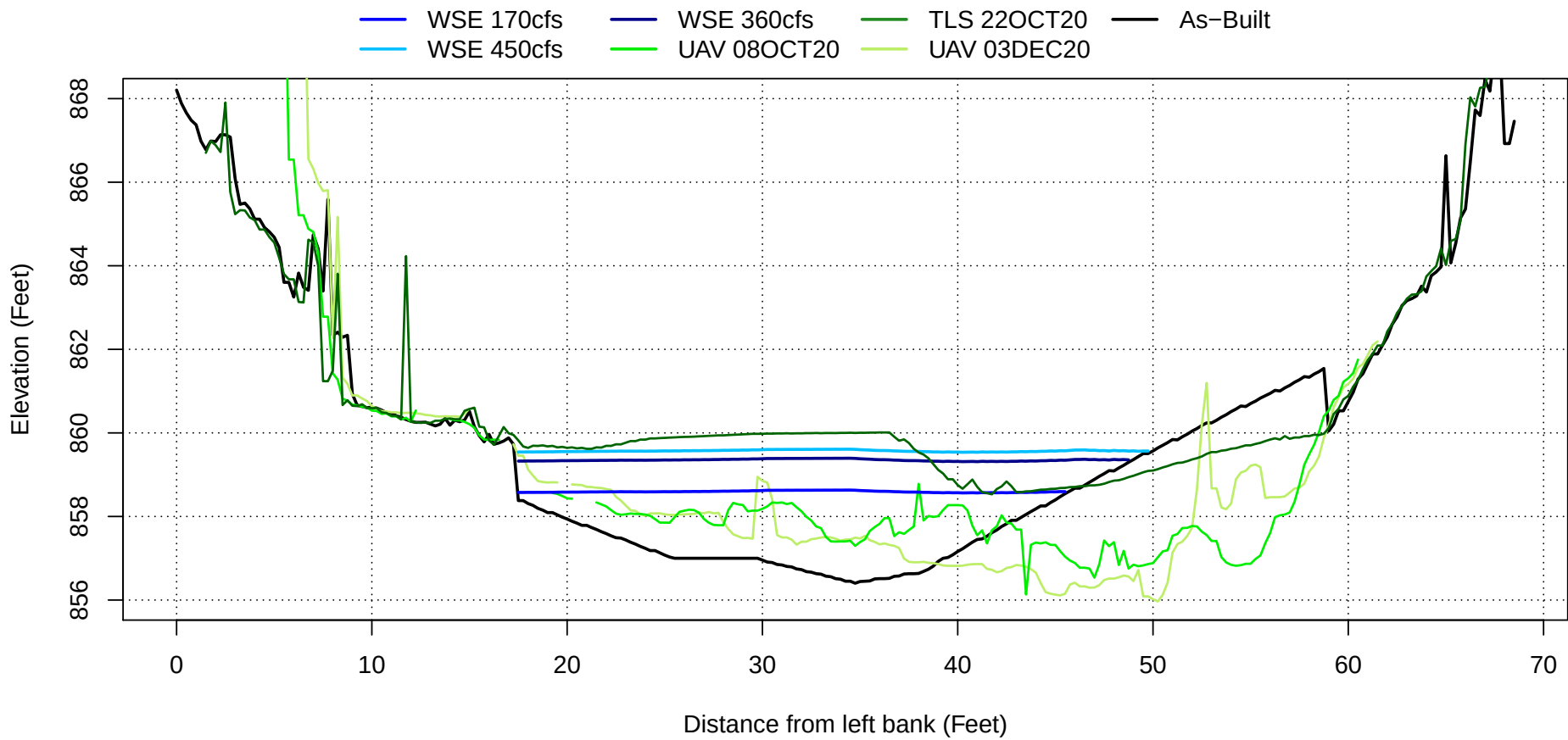
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 640



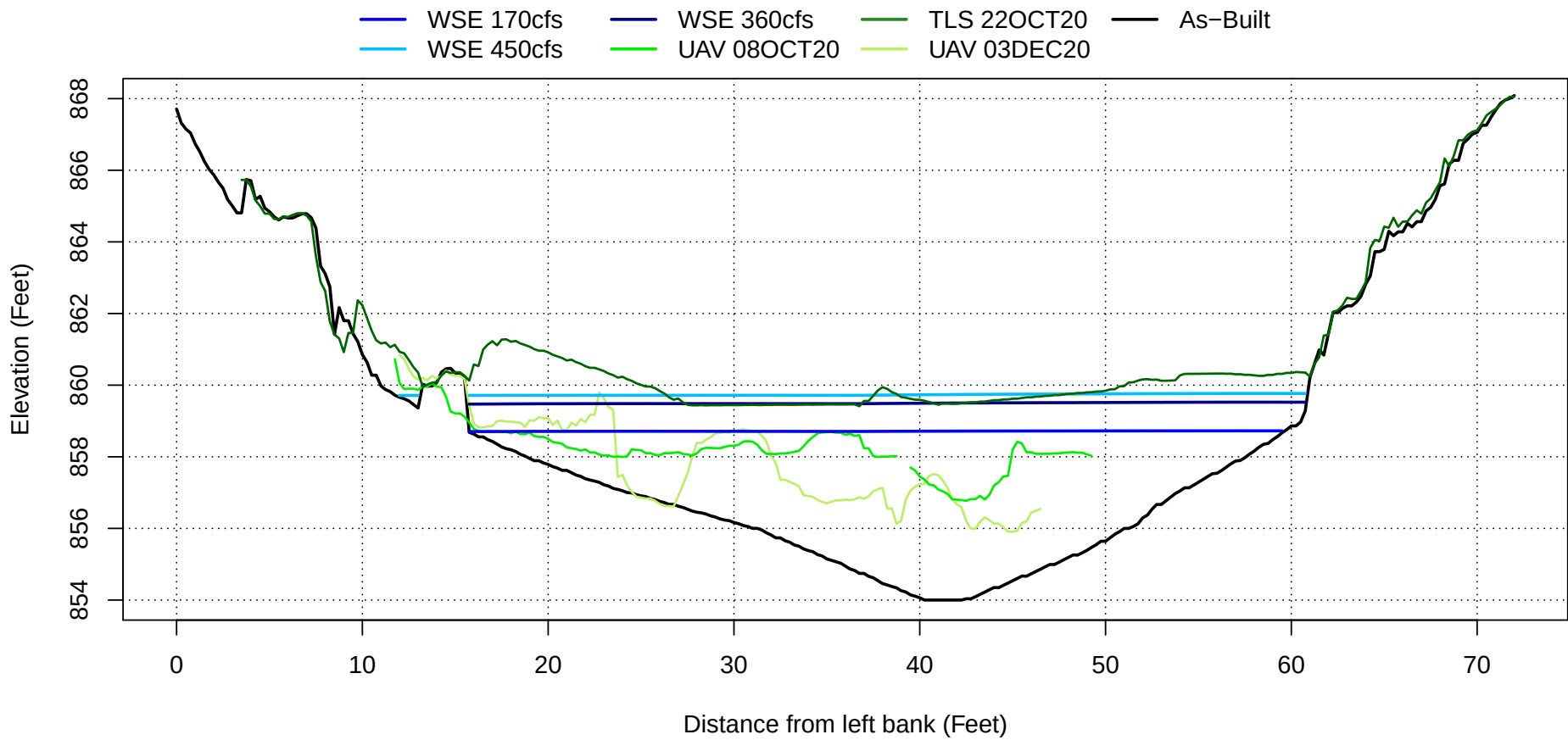
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



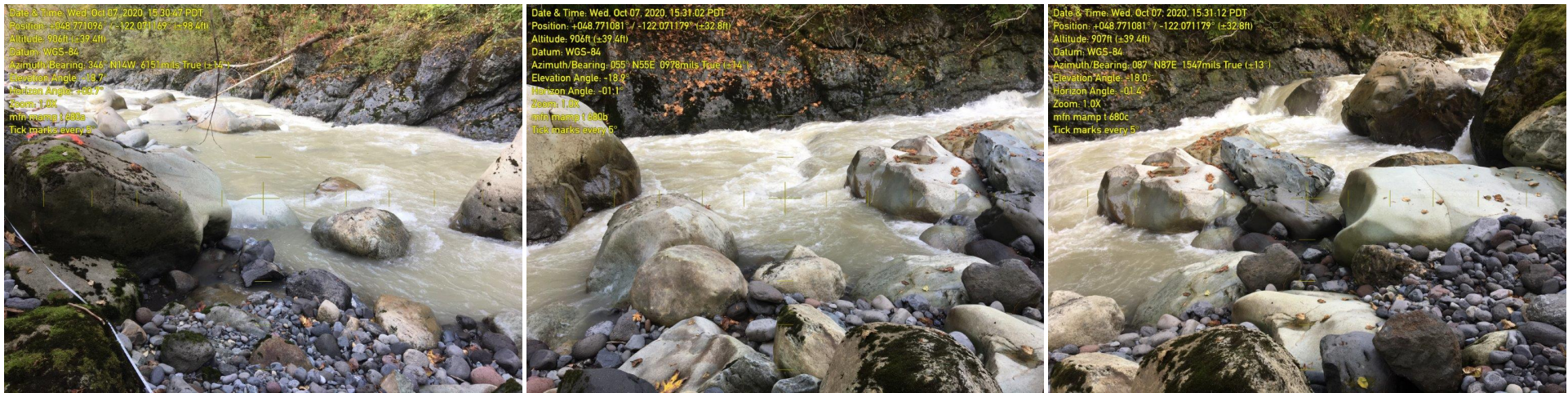
Transect 663



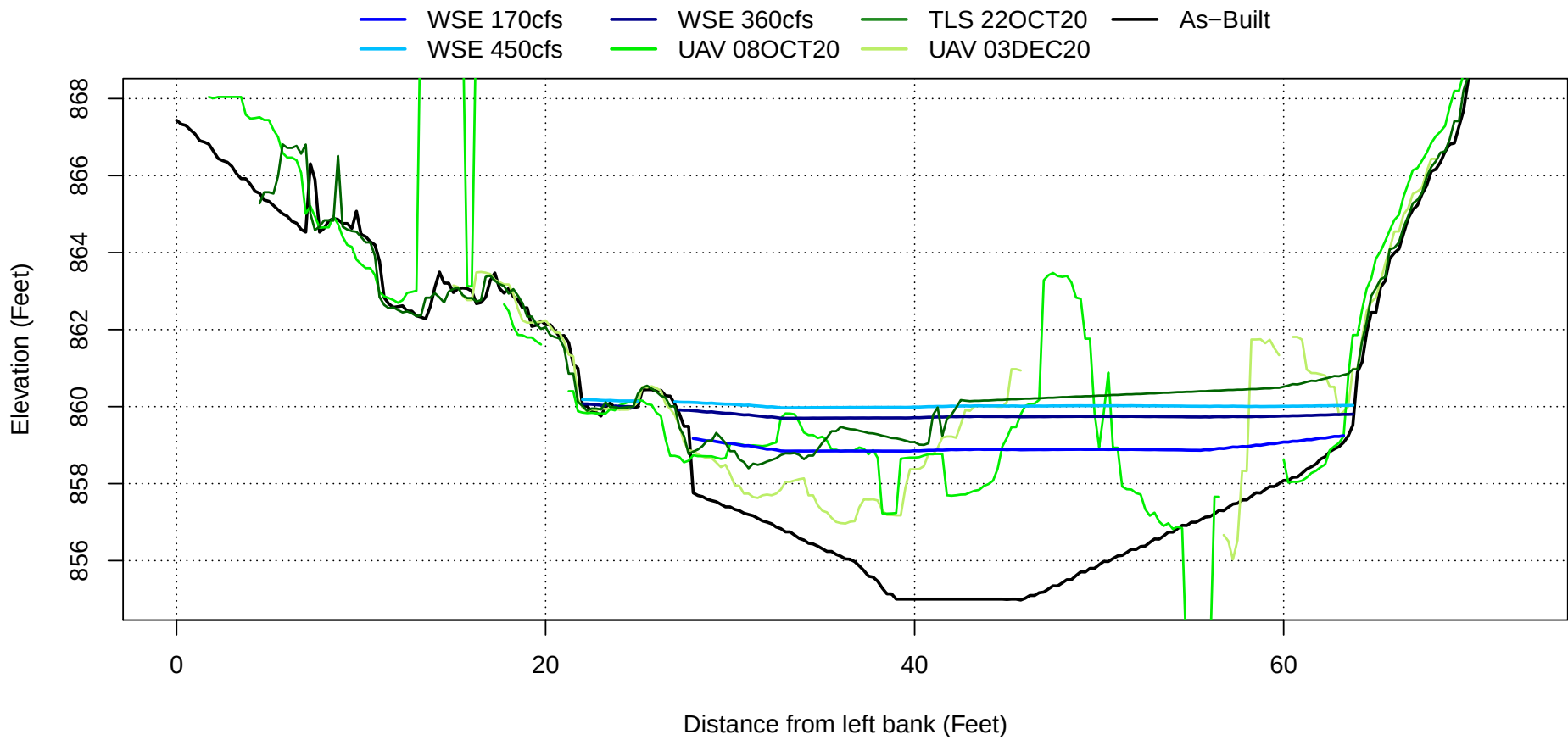
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



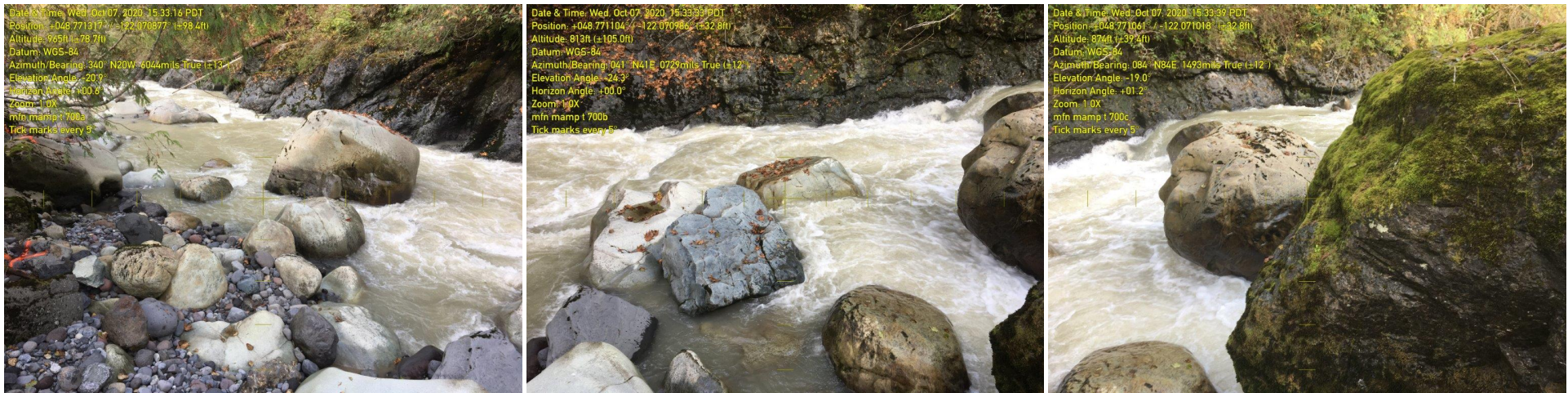
Transect 680



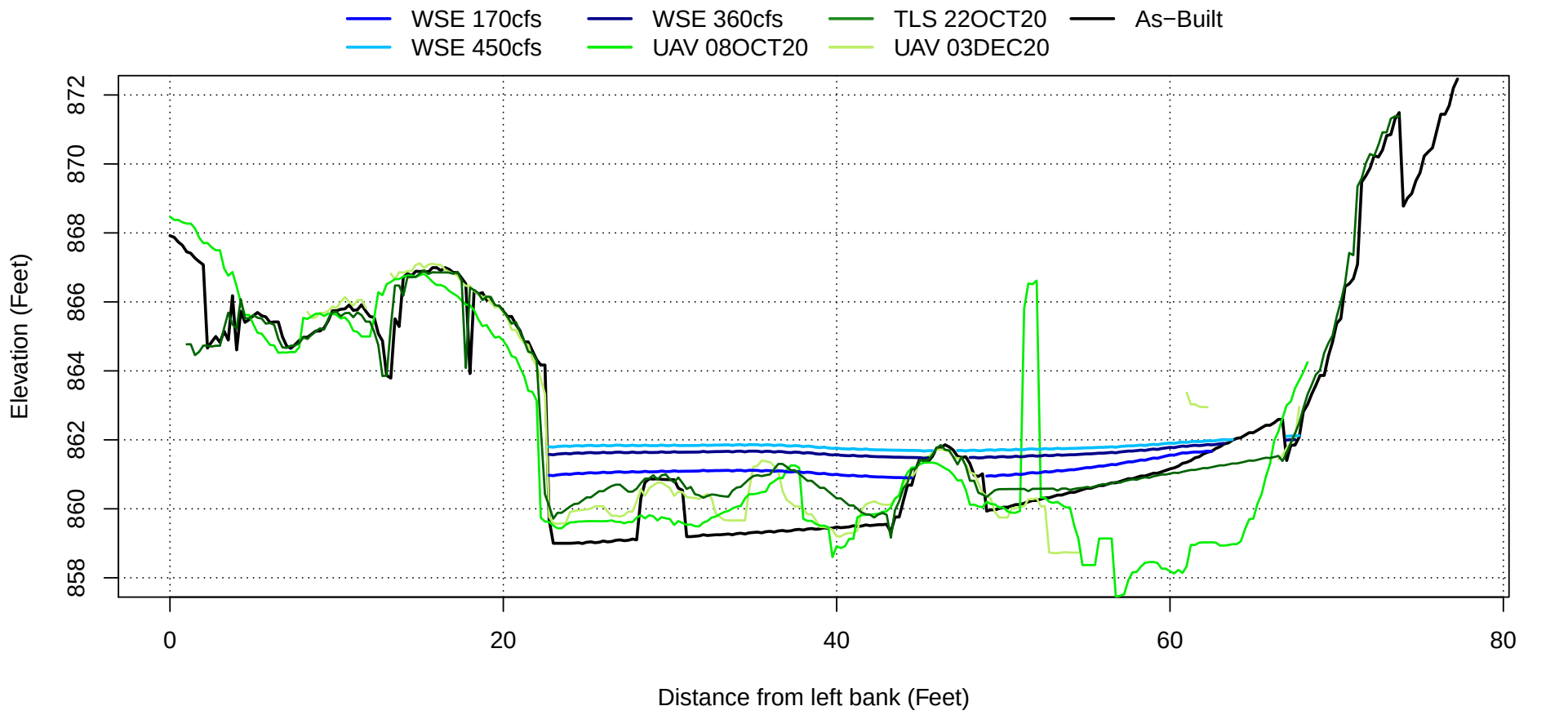
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



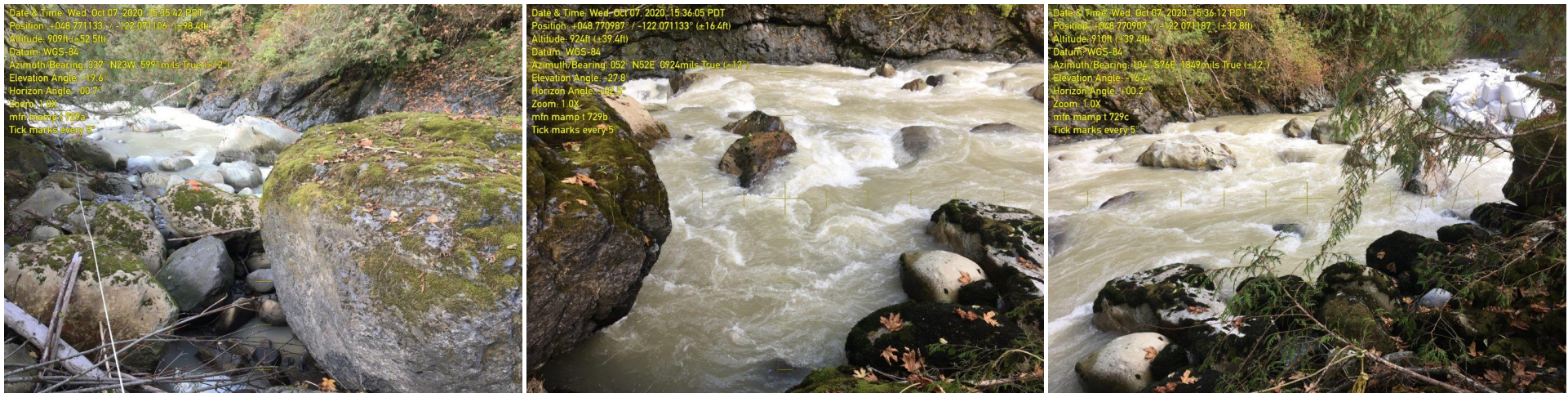
Transect 700



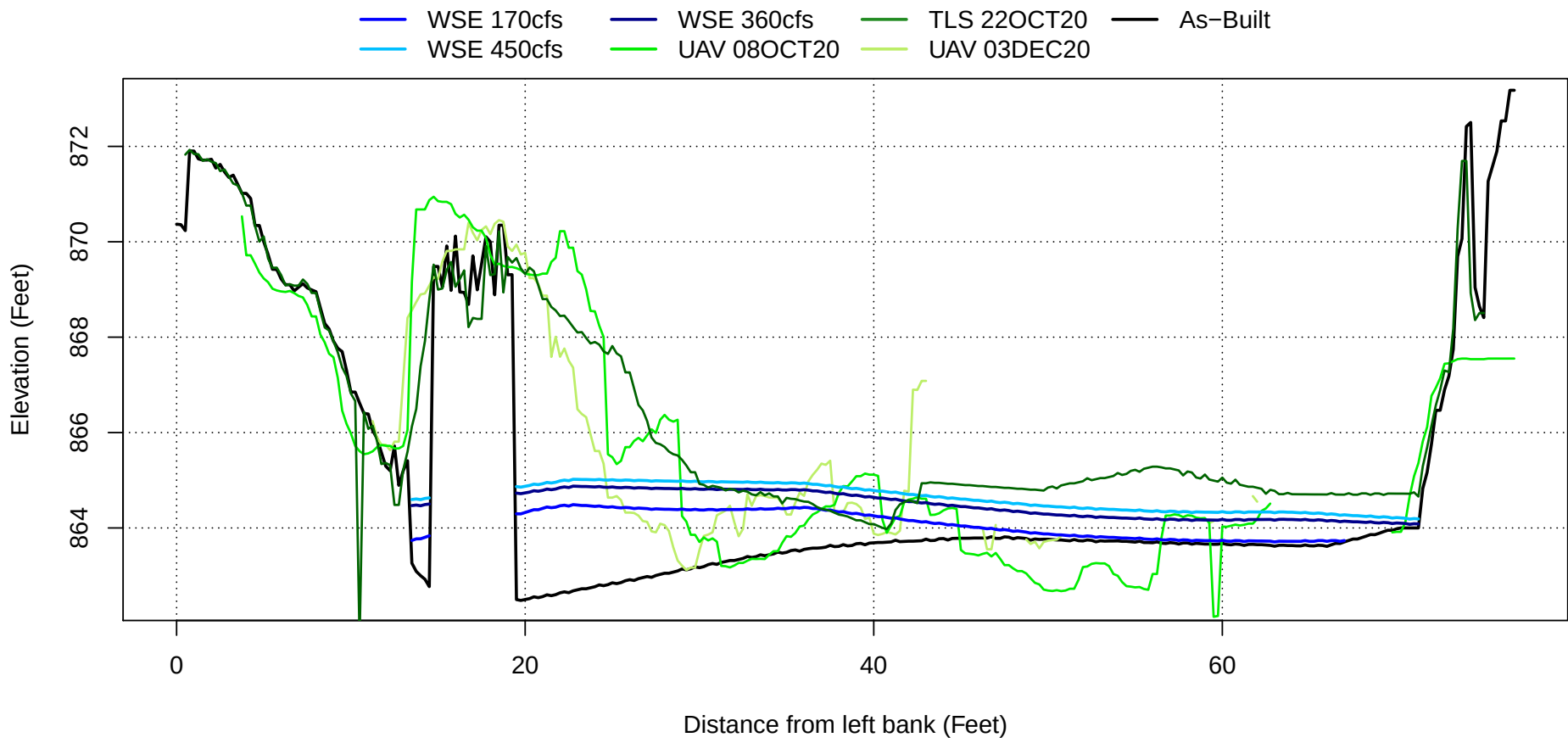
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



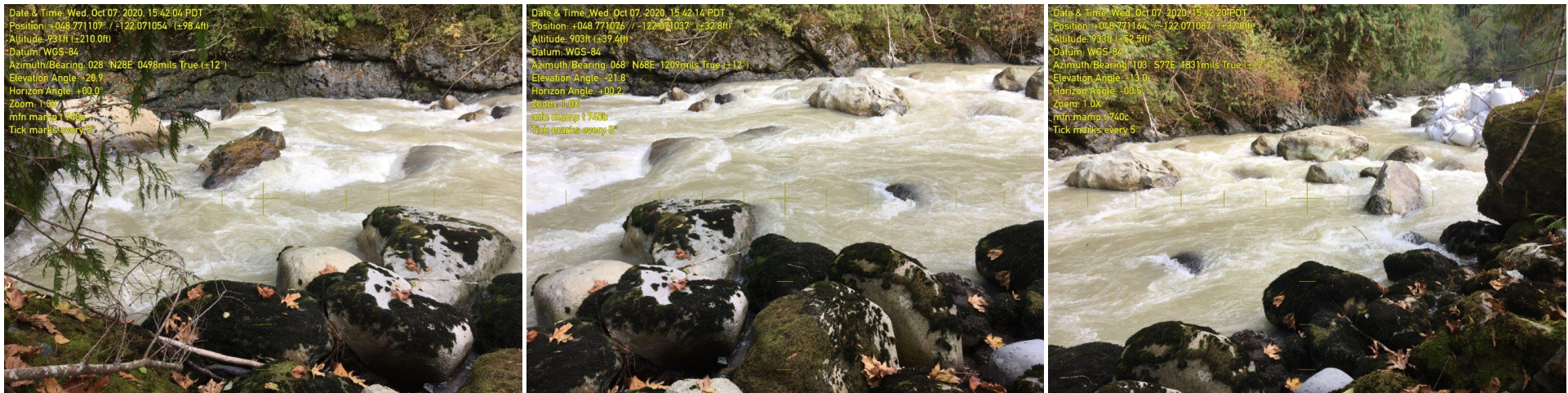
Transect 729



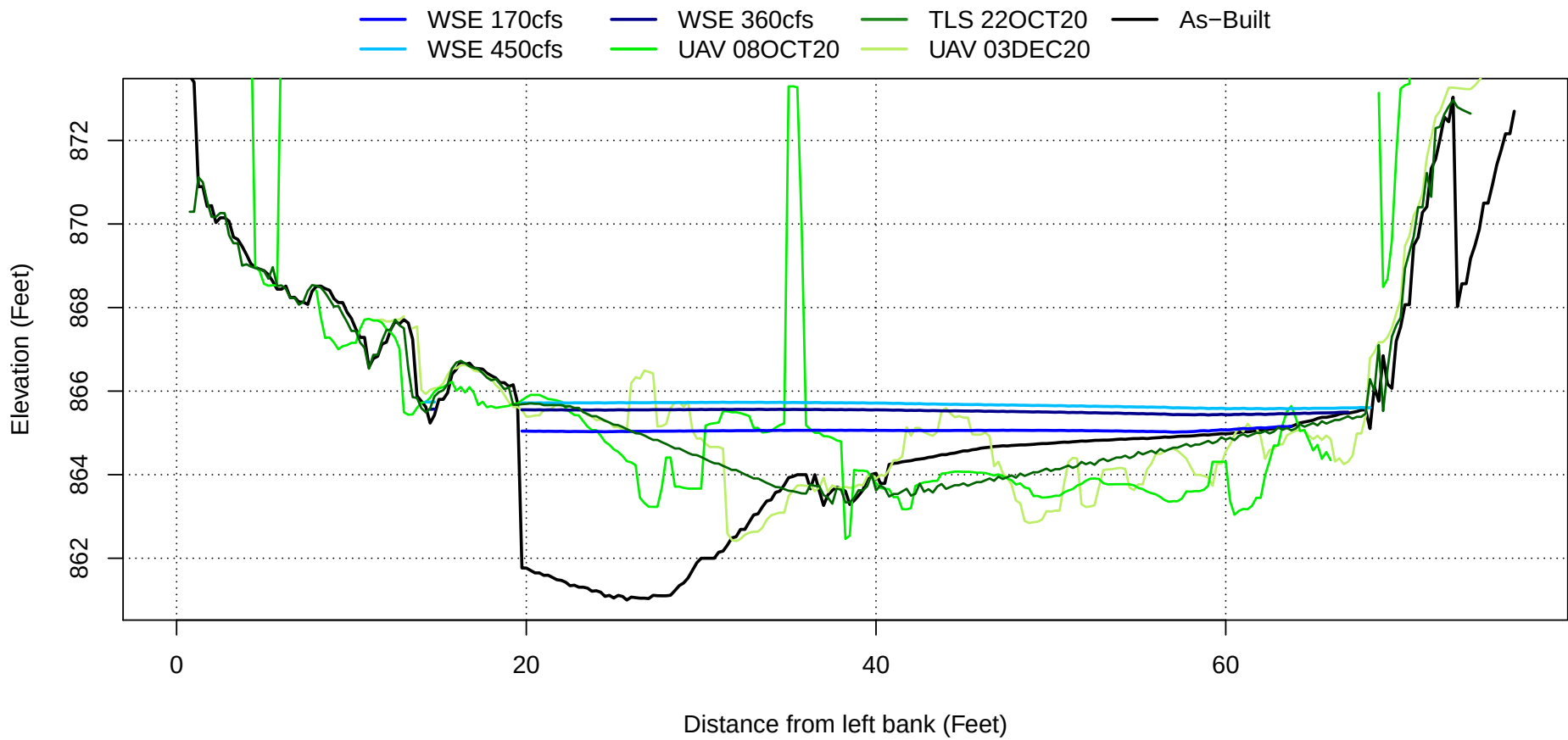
Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



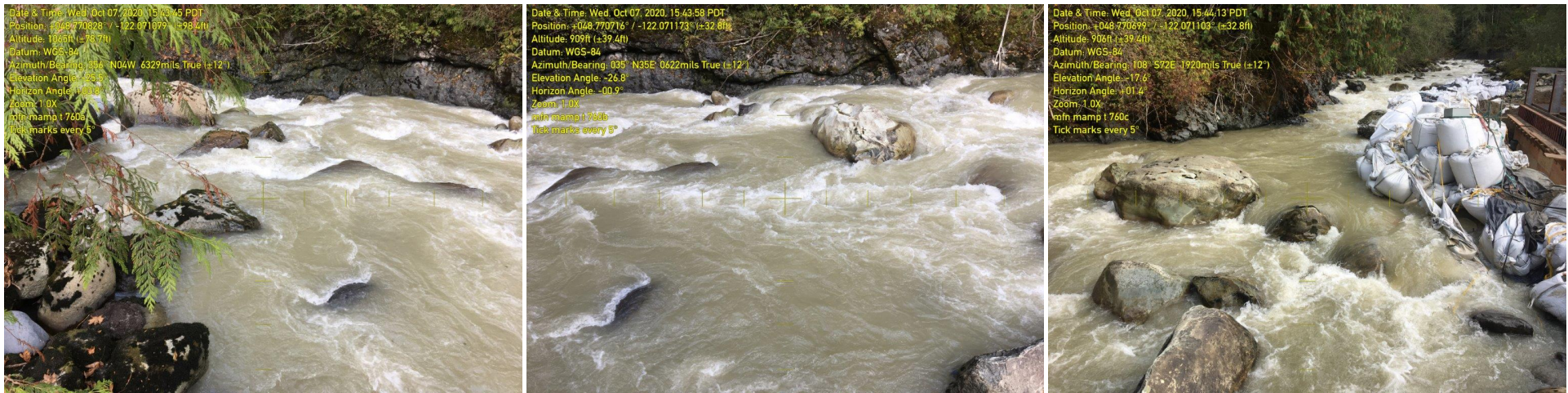
Transect 740



Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker



Transect 760



Photographs taken looking downstream (left), perpendicular to flow (center) and upstream (right) at the transect location marker

