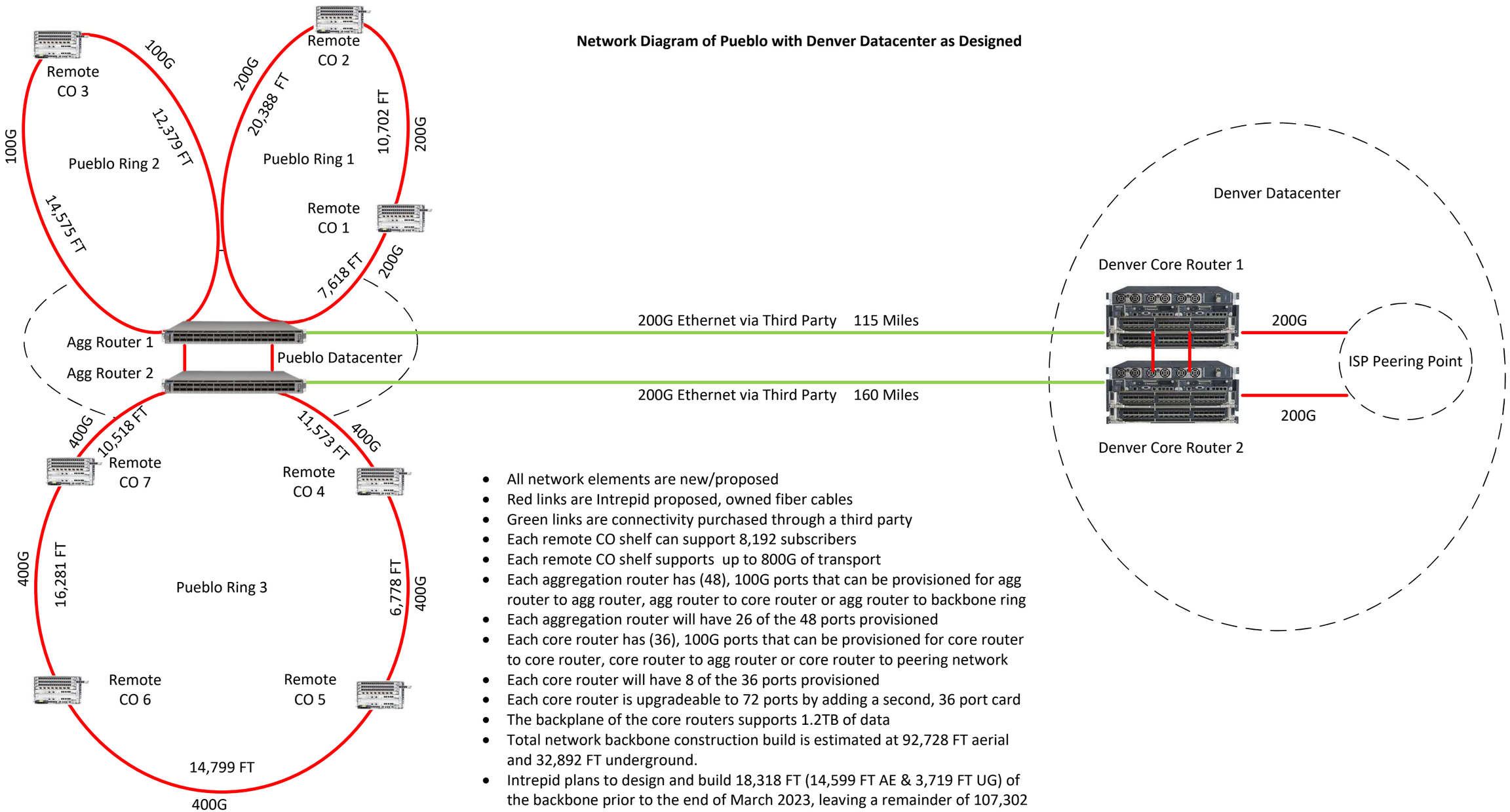
Network Diagram of Pueblo with Denver Datacenter as Designed



- All network elements are new/proposed
- Red links are Intrepid proposed, owned fiber cables
- Green links are connectivity purchased through a third party
- Each remote CO shelf can support 8,192 subscribers
- Each remote CO shelf supports up to 800G of transport
- Each aggregation router has (48), 100G ports that can be provisioned for agg router to agg router, agg router to core router or agg router to backbone ring
- Each aggregation router will have 26 of the 48 ports provisioned
- Each core router has (36), 100G ports that can be provisioned for core router to core router, core router to agg router or core router to peering network
- Each core router will have 8 of the 36 ports provisioned
- Each core router is upgradeable to 72 ports by adding a second, 36 port card
- The backplane of the core routers supports 1.2TB of data
- Total network backbone construction build is estimated at 92,728 FT aerial and 32,892 FT underground.
- Intrepid plans to design and build 18,318 FT (14,599 FT AE & 3,719 FT UG) of the backbone prior to the end of March 2023, leaving a remainder of 107,302 FT (78,129 FT AE & 29,173 FT UG) of backbone for this grant submission.