

## Exhibit P: Network Design Checklist and PBP Compliance Verification

### CNMI Broadband Policy and Development (BPD) Office Broadband Equity, Access, and Deployment (BEAD) Program Subgrant Agreement: Between CNMI BPD and [Subgrantee Name]

Field	Detail
<b>BPD Subgrant Award Identifier</b>	[BPD Assigned ID]
<b>Project Name/Identifier</b>	[Unique Name or Identifier from Exhibit A]
<b>Subgrantee</b>	[Full Legal Name of Subgrantee]

**Referenced Network Design Document(s):** (List the specific design document name(s), version number(s), and date(s) covered by this checklist) [Document Name / Version / Date] [Document Name / Version / Date]

### Purpose and Instructions

This checklist is intended to verify that the submitted Network Design package includes all major required components and specifically addresses the **Priority Broadband Project (PBP) pass/fail criteria** (Performance, Scalability, Resilience, and National Security) mandated by CNMI BPD. The design must be certified by a Professional Engineer (PE).

Please check the box for each item included or addressed in the referenced Network Design Document(s). Provide page numbers or section references where the information can be found within the design package.

Status	Checklist Items:	Reference: Page/Section
(A) General Documentation & PE Certification		

[ ]	1. Cover Sheet / Title Block: Includes Project Name, Subgrantee Name, Professional Engineer (PE)/Firm Name, Date, and Document Version.	
[ ]	2. PE Certification: Completed and signed <b>Exhibit O (Network Design Certification Form)</b> affirming the design meets BEAD performance and resilience requirements.	
[ ]	3. Final Build-Out Timeline: Detailed timeline and <b>interim build-out milestones</b> that evidence completion and service initiation within the <b>four-year statutory deadline</b> .	
[ ]	4. Capital Investment Schedule: Schedule submitted by the Subgrantee (PE certification is waived per RPN).	
<b>(B) Technical Design and Scope</b>		
[ ]	5. Network Topology: High-level architectural diagram (e.g., fiber routes, wireless tower locations).	
[ ]	6. Detailed Route Maps: Maps showing precise routing of infrastructure.	
[ ]	7. Equipment Locations: Site plans for all equipment huts, cabinets, or major termination points.	
[ ]	8. Conduit Access Points: Inclusion of <b>interspersed conduit access points at regular and short intervals</b> for any project involving underground fiber or conduit laying.	
[ ]	9. Fiber Allocation: Plan or chart detailing fiber strand allocation/assignment.	
[ ]	10. Core Network Interconnection: Details of interconnection points and backhaul capacity commitments.	

<b>(C) Materials and Costs</b>		
[ ]	11. Bill of Materials (BOM): List of all major network equipment and construction materials.	
[ ]	12. BABA Compliance Documentation: Manufacturer certification letters retained for iron, steel, and construction materials, and the <b>BABA Reporting Subrecipient Tracker</b> (Country of Origin) for finished manufactured products.	
[ ]	13. Project Cost Breakdown: Detailed project cost estimates aligning with Exhibit B and certified by a PE.	
<b>(D) PBP Compliance (Performance, Scalability, Reliability, Resilience)</b>		
[ ]	14. Performance Standards: Design explicitly demonstrates capability to deliver: <b>≥100 Mbps download and 20 Mbps upload</b> (BSLs) and <b>1 Gbps symmetrical</b> (CAIs), with latency $\leq 100 \text{ ms}$ .	
[ ]	15. Scalability Path: Documentation demonstrating a clear <b>upgrade path</b> to materially higher speeds (e.g., 5-10 year horizon) and support for <b>5G/successor wireless technologies</b> .	
[ ]	16. <b>CNMI Resilience</b> : Detailed documentation showing design measures to <b>withstand and recover from harsh climate conditions</b> (typhoons, flooding, extreme winds) and power vulnerability, including <b>burial/aerial justification</b> (prioritizing underground methods where necessary).	

[ ]	17. Disaster Recovery Plan: Comprehensive <b>repair and restoration plan</b> and <b>backup power strategy</b> with logistics for extended outages.	
[ ]	18. <b>National Security/SCRM</b> : Vendor lists and a <b>SCRM narrative</b> confirming the use of <b>trusted vendors</b> and compliance with <b>NIST SCRM guidance</b> .	
<b>(E) Legal and Operational Compliance</b>		
[ ]	19. EHP Integration: Commitment to utilizing <b>ESAPTT</b> and cooperating with BPD's EHP Permitting Firm to comply with NEPA/NHPA/ESA requirements.	
[ ]	20. Labor/Workforce: Documentation of the plan for utilizing a <b>skilled and credentialed workforce</b> and certifying compliance with all federal labor laws.	
[ ]	21. Code Compliance: Design references compliance with applicable engineering and construction codes (e.g., NESC, CNMI territorial codes).	