FPHP Applicant Checklist – **Installing or Replacing Structure** in Type S or F Water:

(Letters and numbers [xn] correspond to labels on example plans available on the DNR Website)

- **Information required for all drawings:**
  - Legible
  - Graphical scale bars [B1]
  - Title block for each page to include:
    - Drawing title [B5]
    - Landowner name [B10]
    - Drawing date and revision date [B20, B25]
    - Page number (X of total) [B35]
  - Title block for first page to include:
    - Section, Township and Range [B15]
    - Latitude and longitude [B30]

- **Road Profile (Channel Cross Section):**
  - For All Structures, include the following:
    - Horizontal axis labeled with stations (1+00) or consistent intervals (such as 100’) [D1]
    - Vertical axis labeled with elevations [D5]
    - Road grades in percent slope [D10]
    - Existing ground surface labeled [D20]
    - Location of existing structures [E15]
  - For Pipes, include the following:
    - Pipe cross section with size labeled [E1]
    - Dimension lines: Countersink, streambed shape including: pipe bed width, thalweg, and banks [E5]
    - Type, gradation, or material source used to restore streambed [E10]
  - For Bridges, include the following:
    - Superstructure (bridge) and substructure (foundation) [F1, F5]
    - CBW dimension line [F10]
    - Clearance between 100-year flood level and bottom of superstructure [F12]
    - Armor: Location, type, size, toe depth, and slope angles labeled in X horizontal: 1 vertical [F20, F25, F30, F35, F40]
    - Bottom chord elevations [F60, F65]

- **Site Plan; including:**
  - North arrow [A1]
  - Channel alignment upstream and downstream 20 x channel bed width (CBW) (min. 150’ up and down) [C5]
  - Road and stream alignment, including:
    - Planned changes with proposed road edges matched to existing edges [C20]
    - Station labels at constant intervals (such as 1+00) or at direction changes (such as 2+56) [C25]
    - CBW dimensions for bridges [C26]
    - Stream flow direction symbol [C30]
    - Proposed and existing structures with dimensions [C35]
    - Benchmarks and reference points with elevations [C40]
    - Road drainage plan (ditch relief culverts, ditch lining, etc.) [C45]

- **Channel Profile; including:**
  - Horizontal axis labeled with stations (1+00) or consistent intervals (such as 100’) [G1]
  - Vertical axis labeled with elevations [G5]
  - For pipes: Cut slopes, fill slopes, and rock armor angles labeled in X horizontal: 1 vertical [G10]
  - Proposed structure and existing structures [G25, G30]
  - Channel profile upstream and downstream 20 x channel bed width (CBW) (min. 150’ up and down) [G40]
  - Label all channel beds: existing, finished, and expected future regrade [G35, G36, G37]
  - Finished and expected channel profiles labeled in percent slope [G45, G50]
  - Station and elevation labels referenced to benchmarks for:
    - Finished excavation limits and expected future regraded channel bed limits [G55]
  - For Pipes:
    - Upstream and downstream inverts [G60, G65]
    - Finished road surface [G80]