

GRADE STABILIZATION STRUCTURE

| PRACTICE DESCRIPTION | | | | JOB CLASSES | | | | |
|---|-------------------------------|-----------------------|--|---|--------------|--|--------------|-------------|
| Code | Practice | Controlling Factor | Units | Job Class I | Job Class II | Job Class III | Job Class IV | Job Class V |
| 410 | Grade Stabilization Structure | Hazard Class | | A | A | A | A | A |
| | | Effective Height (EH) | feet | 15 | 20 | 25 | 30 | 35 |
| | | Storage x EH | acre-feet ² | 500 | 1,000 | 2,000 | 2,500 | 3,000 |
| | | Drainage Area | acres | 100 | 400 | 1,000 | 2,500 | 4,000 |
| | | Conduit Diameter | inches | 12 | 24 | 36 | 42 | 48 |
| TECHNICAL COMPETENCY REQUIREMENTS | | | | | | | | |
| Prerequisites | | | | Practice Knowledge, Skills, Abilities (KSAs) | | | | |
| 1. Employee must fulfill ALL the Technical Competency Requirements listed for this practice, and submit the specified number of plans for review for to receive JAA. 2. Working knowledge of SWCC JAA Policy and Procedures, applicable conservation practice standard, and BMP policies. 3. Capability to complete "The NRCS-CPA-52 Environmental Evaluation Worksheet" or comparable site assessment form. 4. Working knowledge of Web Soil Survey, Suitabilities and Limitations Ratings. 5. Capability to perform layout and construction checking following applicable procedures and Notekeeping format contained in Technical Release 62. | | | | 1. Knowledge of NRCS Construction Specification 21 - Excavation and 23 - Earthfill. 2. Knowledge of structures including embankments, full-flow open type, island type, side inlet, open weir, and pipe drops. 3. Development of related computations and analyses to develop plans and specifications including but not limited to geology, soil mechanics, hydrology, hydraulics, structural design, vegetation, environmental and safety considerations. 4. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). 5. Development of as-built or "red-line" drawings (NEM Part 512, Construction, Subpart F – As-builts, 512.50 through 512.52). 6. Certification the installation meets applicable standards and specifications and is in compliance with permits (NEM Part 505 – Non-NRCS Engineering Services, Subpart A - Introduction, 505.3). | | | | |
| PRACTICE PHASES | | | | | | | | |
| INVENTORY AND EVALUATION (I&E) | | | DESIGN (D) | | | CONSTRUCTION & CERTIFICATION (C&C) | | |
| 1. Independently complete a minimum of two I&E packets on separate Planning Land Units (PLU) to identify and document resource concerns using the latest NRCS-CPA-52 Form (or equivalent) and GIS mapping tools (i.e. ArcMap, Toolkit, or Conservation Desktop) to develop Conservation Plan Maps. 2. Use the latest NRCS-CPA-52 (Sections A thru P) or comparable site assessment form to independently recommend and document resource alternatives/alternative action(s) needed to meet the client's objective and achieve the intended purpose to mitigate associated resource concerns for two different Planning Land Units (PLU). 3. Complete the appropriate "CONSERVATION PLANNING CRITERIA, RESOURCE CONCERNS & SPECIAL ENVIRONMENTAL CONCERNS CHECKLIST (see EFOTG, Section II) or comparable form, and ALL applicable resource assessments tools, such as erosion prediction tools, calculations, surveys, and soils investigations necessary to document existing resource conditions, resource concerns, and short-term/long term effects of proposed alternatives. | | | 1. Independently complete a minimum of two designs/specifications for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Design" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW), including O&M guidance, and any applicable Job Sheet(s), Implementation Requirements, or comparable SWCC practice specification sheet(s). 3. Completion of the latest NRCS-CPA-52 Worksheet, Sections A through P or comparable site assessment form. | | | 1. Independently complete a minimum of two construction/certification "check-outs" for the desired practice on separate Planning Land Units (PLU) in accordance with the most recent SWCC BMP standard and policies. 2. Independently fulfill/complete the "Installation" & "Check Out" deliverables in accordance with the most recent eFOTG practice Statement of Work (SOW) or comparable SWCC form(s). 3. Independently compile, record, and complete practice certification activities using the latest NC-CPA-09 Form ("Conservation Practice Certification Form") or comparable form. | | |