

## **Practice Documentation - Supporting Data**

A conservation practice is a part of a resource management system that is functional and accomplishes the conservation objective. Supporting data are to include a record of planning, design, installation, checking, and maintenance necessary to insure an effective practice.

Supporting data include those features of a practice that can be measured, surveyed, tested, or otherwise observed. The completed work is to be checked against the plans and specifications or other requirements to insure a satisfactory job. Check notes or observations become part of the supporting data along with previous planning, layout, or documenting records. The check is to record that the check was done, date and sign the notes, and include a statement that the practice does or does not meet the requirements.

Qualified contractors and other qualified individuals should be encouraged to design, layout and check conservation practices (see NEM 210-501.00 to 501.09). Designs are to be reviewed and accepted by those having appropriate approval authority before installation starts. Design and installation must conform to approved technical standards and specifications. The contractor and other qualified individuals can furnish signed statements and notes giving appropriate information and measurements to show the standards and specifications have been met. Backup data need not be in the format used by NRCS but must be legible and understandable. The NRCS employee responsible must be satisfied that the work of these individuals will meet specifications before accepting their statements and measurements as supporting data. In addition, complete construction checks should be made on at least 5% of the jobs installed by each contractor or qualified individual during the year, and the check notes should be recorded and filed.

Sampling can be used to record supporting data for jobs with a number of similar components such as a system of terraces, subsurface drains, pipelines, small lateral ditches, and small structures for water control. The sample should be taken from segments or parts that appear least likely to meet the specifications. The checker is to be satisfied that the entire job meets specifications and is to record supporting data for the selected sample. The location of the sample is to be identified.

The supporting data for some practices include computations for quantity. Such computations are required only if cost sharing is based on quantities such as cubic yards, acres, etc. Computations made when the structure or practice was designed suffice if applicable to the completed work.

In the case of engineering practices, refer to the engineering procedures in the Engineering Field Handbook, Chapter 5 - Minnesota supplements for more details on what is required.

All practice application requires the following documentation, hereafter referred to as **mandatory documentation**:

- Identification of the extent of practices applied,
- Location identification, this can be an aerial photo, reference to the conservation plan map, or a sketch in the plan drawings,
- Notification of Gopher State One Call as appropriate,
- Environmental Evaluation NRCS-CPA-52, and
- Documentation of necessary permits – federal, state, local - as applicable.

The following additional data are needed for the specific practices listed.

#### **Access Road - 560**

- Mandatory documentation
- Design data
- Type and quality of surfacing material
- Compliance with federal, state and local criteria
- Cross-section
- Profile of centerline and ditch(es)
- Adequacy of vegetation

#### **Alley Cropping - 311**

- Mandatory documentation
- Practice objective.
- Crop, forage or tree/shrub species selected.
- Width and spacing of trees/shrubs.
- Crop or forage alley width.
- Seeding plan (MN-CPA-003).

#### **Anaerobic Digester-Controlled Temp. – 366**

- Mandatory documentation
- Design Data Materials used – manufacturer, dimensions, certifications

#### **Animal Mortality Facility - 316**

- Mandatory documentation
- Design Data

#### **Animal Trails and Walkways - 575**

- Mandatory documentation
- Practice objective.
- Identify facilitating components.
- Refer to Critical Area planting for seeding

#### **Brush Management - 314**

- Mandatory documentation
- Plant species to be controlled.

- Plant species to benefit.
- Method of control.
- Time to apply control measures.
- Management of area following treatment.

#### **Channel Bank Vegetation - 322**

- See Critical Area Planting - 342.

#### **Clearing and Snagging - 326**

- Mandatory documentation
- Design data
- Before and after channel capacity calculations/photos
- Resultant fish and wildlife enhancement
- Method of disposal of material

#### **Closure of Waste Impoundments - 360**

- Mandatory documentation
- Description of conveyance measures removed
- Adequacy of vegetation
- Pollution control measures used

#### **Composting Facility - 317**

- Mandatory documentation
- Design data
- Type of waste organic material
- Soil type

#### **Conservation Cover - 327**

- Mandatory documentation
- Practice objective.
- Seeding plan (MN-CPA-003) or appropriate planning jobsheet.
- Fertilization requirements.
- Management recommendations.

### **Conservation Crop Rotation - 328**

- Mandatory documentation
- Crops to be planted
- Sequence of crops and length of rotation
- Nutrient management.
- Pest management.
- Soil Quality Considerations

### **Contour Buffer Strips – 332**

- Mandatory documentation
- Row grade, width of tilled strip, width of vegetated strip and arrangement of strips
- Vegetative species selection, seeding rates and methods
- Spacing and arrangement of strips
- Erosion calculations
- Critical Slope length
- Outlet stability
- Treatment of end rows and field borders

### **Contour Farming - 330**

- Mandatory documentation
- Minimum/maximum row grade
- Critical slope length
- Erosion calculations
- Minimum ridge height
- Outlet stability
- Treatment of end rows and field borders

### **Cover Crop - 340**

- Mandatory documentation
- Practice objective.
- Planting dates
- Site and seedbed preparation
- Soil amendments required
- Species selection and seeding rates
- Time and method of incorporating the crop into the soil
- Erosion calculations

### **Critical Area Planting - 342**

- Mandatory documentation
- Planting dates
- Site and seedbed preparation
- Type of area being seeded
- Soil amendments required

- Species selection, seeding or planting rates and establishment method
- Type and amount of mulch required and method of anchoring
- Temporary Cover if appropriate
- Management recommendations.

### **Cross Wind Ridges - 589A**

- Mandatory documentation
- Direction of tillage operations.
- Ridge height, spacing, and direction.
- Soil loss.

### **Cross Wind Trap Strip - 589C**

- Mandatory documentation
- Number and width of trap strips
- Location of trap strips
- Vegetative cover including seeding rate and species (if applicable)
- Width of cropped strip
- Orientation of trap strips in relation to direction of erosive winds
- Management recommendations.
- Soil Loss

### **Dam - 402**

- Mandatory documentation
- Design data
- Hazard Classification including rationale
- Profile of dam and earth spillway
- Cross-section of dam and earth spillway
- Size and elevations of pipe inlet and invert
- Pipe appurtenances
- Depth and area of pool
- Yardage computations if needed
- Quantities of materials
- Clearing
- Adequacy of vegetation
- Sealing, fencing, fish management.
- Safety devices and features

### **Deep Tillage – 324**

- Mandatory documentation.
- Soil Moisture
- Required tillage depth

### **Dike - 356**

- Mandatory documentation.
- Design data.
- Profile of ridge.
- Adequacy of vegetation.
- Cross-section.

### **Diversion - 362**

- Mandatory documentation
- Design data
- Profile of channel and ridge
- Cross-section
- Outlet conditions
- Adequacy of vegetation
- Maintenance access

### **Drainage Water Management - 554**

- Mandatory documentation
- Design data
- Adequacy of vegetation
- Appurtenances - Manufacturer , dimensions, certifications
- Cross sections and profiles of any ditches

### **Dry Hydrant - 432**

- Mandatory documentation
- Design data
- Water supply calculations
- Measurements of completed hydrants
- Vehicle access
- Materials used – manufacturer, certification, pertinent dimensions
- Testing results and recommendations for future maintenance and testing

### **Early Successional Habitat Development and Management - 647**

- Mandatory documentation
- Practice objective.
- Habitat type to be established or managed.
- Type, timing and frequency of management action.
- Biology Jobsheets as appropriate.

### **Fence - 382**

- Mandatory documentation
- Practice objective.
- Type of fence.
- Materials to be used.

### **Field Border - 386**

- Mandatory documentation
- Practice objective.
- Width and location.
- Seeding plan (MN-CPA-003).
- Management recommendations.

### **Filter Strip - 393**

- Mandatory documentation
- Practice objective.
- Length (flow length across the strip).
- Width.
- Slope.
- Seeding plan (MN-CPA-003) or appropriate planning jobsheet.
- On-site visit.
- Vegetation management.

### **Firebreak - 394**

- Mandatory documentation
- Type of firebreak
- Soils.
- Species selection, if applicable.
- Site preparation required.
- Width.
- Distance between firebreaks, if applicable.
- Maintenance plan.

### **Fish Stream Improvement - 395**

- Mandatory documentation
- Practice objective.
- Species benefited.
- Engineering plan as appropriate.

### **Forage Harvest Management - 511**

- Mandatory documentation
- Pasture or forage balance worksheet.
- Nutritional requirements of the forage.
- Stage of maturity at harvest.
- Harvest interval.

#### **Forest Site Preparation - 490**

- Mandatory documentation
- Identify plant competition by species.
- Treatment needed.
- Equipment or herbicide needed.
- Soils and limitations.
- Type of site preparation.

#### **Forest Stand Improvement - 666**

- Mandatory documentation
- Thinning requirements.
- Type of thinning (chem., mech. etc).
- Species of competition to be controlled, if applicable.
- Management plan.

#### **Forest Trails and Landings - 655**

- Mandatory documentation
- Location and extent of haul roads.
- General slope of harvest area.
- Features to avoid such as wet areas and drainage channels.

#### **Grade Stabilization Structure - 410**

- Mandatory documentation
- Design data
- Measurements of completed structure
- Type and quality of materials
- Adequacy of vegetation

#### **Grassed Waterway - 412**

- Mandatory documentation
- Design data – see procedure
- As-built Length and method to measure length
- As-built Top width
- As-built Depth
- As-built Grade
- Temporary measures
- Location, size, extent of subsurface drains if used – existing and new
- Cross-section
- Construction check
- Adequacy of vegetation

#### **Heavy Use Area Protection - 561**

- Mandatory documentation
- Design data

- Surfacing material used – quality, quantity, thickness

#### **Hedgerow Planting - 422**

- Mandatory documentation
- Species of trees/shrubs to be established.
- Tree/shrub planting plan (MN-CONS-7).

#### **Herbaceous Wind Barriers - 603**

- Mandatory documentation
- Determination of adapted species of herbaceous vegetation to achieve required porosity, height and desirable plant characteristics
- Orientation of barriers, width of each barrier and spacing between barriers
- Number of rows in each barrier and number of barriers across the field
- Additional provisions, as required, for reducing soil erosion from wind, protection of crops, snow management, and wildlife food and cover
- Maintenance plan.

#### **Irrigation System, Sprinkler – 442**

- Mandatory documentation
- Water use permit
- Rain gages installed
- Design data
- Soil Type
- Crop rotation
- Coefficient of Uniformity

#### **Irrigation Water Management - 449**

- Mandatory documentation
- Design data
- Soil type
- As-built cuts and fills
- Adequacy of vegetation

#### **Lined Waterway or Outlet - 468**

- Mandatory documentation
- Design data
- Cross-section
- Profile of bottom and bank
- Adequacy of vegetation
- Lining material – type, quality, quantity, thickness

#### **Manure Transfer – 634**

- Mandatory documentation
- Design data

#### **Milking Center Wastewater Treatment System – 719**

- Mandatory documentation
- Design data
- If prefabricated, manufacturer, markings, certification, and dimensions
- Appurtenances used – manufacturer, pertinent dimensions, and certifications.

#### **Mine Shaft and Adit Closing - 457**

- Mandatory documentation
- Site specific plan.
- Species benefited, as appropriate.
- Engineering design as applicable.

#### **Mulching - 484**

- Mandatory documentation
- Type of material, thickness/depth, durability, amount
- Preparatory surface treatment including vegetation measures
- Application technique by material type
- Additional requirements to conserve soil moisture, moderate soil temperature, control erosion, suppress weeds, establish vegetative cover, improve soil condition and increase soil fertility
- Type, amount, and method of anchoring mulch
- Timing of application
- Practice objective.

#### **Nutrient Management - 590**

- Mandatory documentation
- Maps, schedules, calculations and other information required in the Plans/Specifications of practice 590.
- MN Forms MN-CPA-40, MN-CPA-42, and MN-CPA-023 or equivalent formats.
- Producer certification on forms MN-CPA-023 or MN-CPA-046.

#### **Obstruction Removal - 500**

- Mandatory documentation
- Design data
- Manner and location of disposal

#### **Open Channel - 582**

- Mandatory documentation
- Design data
- Profile of channel and banks
- Cross-section
- Adequacy of vegetation
- Turf reinforcement or geotextile description if used
- Grade
- Outlet conditions
- Description and measurements of any structures involved
- Safety features and devices, if any
- Access for maintenance

#### **Pasture and Hay Planting - 512**

- Mandatory documentation
- Type of grazing system or method of harvest.
- Stage of growth or height for grazing periods.
- Management during establishment.
- Fertilizer and lime requirements.
- Seeding plan (MN-CPA-003).

#### **Pest Management - 595**

- Mandatory documentation
- Crop or crop rotation, form MN-CPA-047
- Results of environmental risk assessments when chemical controls are used, form MN-CPA-025 or NRCS WN-PST.
- Identification of target pests and recommended pest management techniques MN-CPA-047. (Producer responsibility).
- Location of sensitive resources and setbacks, if applicable. MN-CPA-047.
- Practices to mitigate risk of pest management techniques having relatively high potential to impact non-target species, MN-CPA-047.
- Operation and maintenance procedures.
- Records (producer responsibility).

**Pipeline - 516**

- Mandatory documentation
- Design data
- Materials used – manufacturer, dimensions, certification
- Adequacy of vegetation

**Pond - 378**

- Mandatory documentation
- Design data
- Hazard Classification including rationale
- Profile of dam and earth spillway
- Cross-section of dam and earth spillway
- Size and elevations of pipe inlet and invert
- Pipe appurtenances
- Depth and area of pool
- Yardage computations if needed
- Quantities of materials
- Clearing
- Adequacy of vegetation
- Sealing, fencing, fish management if appropriate

**Pond Sealing or Lining, Bentonite Sealant - 521C**

- Mandatory documentation
- Design data
- Supplier, quality, and quantity of materials used
- Size of pond sealed
- Soil type
- Equipment access
- Safety features and devices

**Pond Sealing or Lining, Flexible Membrane Lining - 521A**

- Mandatory documentation
- Design data
- Membrane manufacturer, certification, dimensions
- Size of pond lined
- Soil type
- Venting system description, if used
- Drainage system details, if used
- Safety features and devices, if any
- Equipment access

**Prescribed Burning - 338**

- Mandatory documentation
- Practice objective.
- Plant community to be improved by burn.
- Detailed burn plan.

**Prescribed Grazing - 528**

- Mandatory documentation
- Practice objective.
- Kind and class of grazing animal.
- Key plant species.
- Grazing system type.
- Grazing season or period of use.
- Define sensitive areas and management requirements.
- Locations of fences/watering facilities.
- Forage management.
- Estimates of forage production.

**Pumping Plant - 533**

- Mandatory documentation
- Design data
- Manufacturer, certification, dimensions
- Foundation details
- Safety features and devices
- Appurtenances used – manufacturer, certification, dimensions

**Range Planting - 550**

- Mandatory documentation
- Ecological site.
- Seeding plan (MN-CPA-003).
- Weed and brush control.
- Management recommendations.

**Recreation Area Improvement - 562**

- Mandatory documentation
- Site specific plan.

**Residue Management, Mulch Till - 345**

- Mandatory documentation
- Residue amount, orientation and distribution after planting
- Timing of soil disturbance
- Soil loss
- Type of Equipment Used

**Residue Management, No Till/Strip Till/Direct Seed - 329**

- Mandatory documentation
- Planting and fertilizer application equipment used
- Soil loss
- STIR rating
- Timing and amount of soil disturbance
- Residue orientation and distribution

**Residue Management, Ridge Till - 346**

- Mandatory documentation
- Planned Residue amount after planting
- Soil loss
- Orientation and distribution of residue
- Maximum row grade
- Stable outlet
- Type of equipment used
- Timing and amount of soil disturbance

**Residue Management, Seasonal - 344**

- Mandatory documentation
- Practice objective.
- Dates when residue will be present.
- Timing and amount of soil disturbance
- Orientation and distribution of residue
- Amount of residue required.
- Soil loss.

**Restoration and Management of Declining Habitats - 643**

- Mandatory documentation
- Vegetative type to be established or managed.
- Method of establishment.
- Seeding plan (MN-CPA-003) or Biology Jobsheet.
- Tree/shrub planting plan (MN-CONS-7) or Biology Jobsheet.
- Maintenance and management recommendations.

**Riparian Forest Buffer - 391**

- Mandatory documentation
- Seeding plan (MN-CPA-003) or appropriate planning jobsheet.
- Tree/shrub planting plan (MN-CONS-7).

**Riparian Herbaceous Cover - 390**

- Mandatory documentation
- Practice objective.
- Seeding plan (MN-CPA-003).

**Roof Runoff Management - 558**

- Mandatory documentation
- Design data
- Outlet description and adequacy
- Materials used – manufacturer, certifications, pertinent dimensions
- Adequacy of vegetation

**Runoff Management System - 570**

- Mandatory documentation
- Design data
- Outlet description and adequacy
- Materials used – manufacturer, certifications, pertinent dimensions
- Adequacy of vegetation

**Sediment Basin - 350**

- Mandatory documentation
- Design data
- Outlet description and adequacy
- Materials used – manufacturer, certifications, pertinent dimensions
- Adequacy of vegetation
- Pollution control measures
- Safety features and devices
- Depth and size of pool in acres
- Cross-section and profile of embankment

**Sinkhole Treatment - 725**

- Mandatory documentation
- Design data
- Soils and geology information
- Materials used – source, certification, appropriate dimensions
- Safety devices and features
- Adequacy of vegetation

### **Spoil Spreading - 572**

- Mandatory documentation
- Design data
- Soil type
- Representative cross-section before and after
- Adequacy of vegetation

### **Spring Development - 574**

- Mandatory documentation
- Design data
- Materials and appurtenances – manufacturer, certification, pertinent dimensions
- Cross-section & profile of ditch or trench if applicable
- Adequacy of vegetation
- Safety devices and features
- Anticipated yield of system

### **Stream Channel Stabilization - 584**

- Mandatory documentation
- Design data
- Adequacy of vegetation
- Access for maintenance
- Outlet conditions and adequacy
- Profile and cross-sections
- Soil type
- Grade of channel
- Extent and nature of clearing
- Materials and appurtenances – manufacturer, certification, pertinent dimensions

### **Stream Crossing – 578**

- Mandatory documentation
- Design data
- Materials used – source, certification, appropriate dimensions
- Adequacy of vegetation

### **Streambank and Shoreline Protection - 580**

- Mandatory documentation
- Design data
- Cultural resources considerations
- Erosion extent before project
- Adequacy of vegetation
- Access for maintenance

- Outlet conditions and adequacy
- Profile and cross-sections
- Soil type
- Grade of channel
- Extent and nature of clearing
- Materials and appurtenances – manufacturer, certification, pertinent dimensions
- Fetch length in miles for lakes
- Description and extent of armoring used
- Geotextiles or other materials – manufacturer, dimensions, certification
- Flow-frequency data for streams
- Fluvial geomorphology indicators

### **Stripcropping - 585**

- Mandatory documentation
- Crop sequence
- Number of strips
- Minimum and maximum row grade for tilled strips (for sheet and rill erosion)
- Critical Slope length (for sheet and rill erosion)
- Alignment, orientation and width of strips (for wind erosion)
- Tillage and planting instructions.(planned rotation)
- Seeding mixture and rates for seeding grass/legume strips.
- Fertility management.
- Stable outlets.
- Treatment of end rows and field borders
- Survey notes and measurements
- Design data

### **Structure for Water Control - 587**

- Mandatory documentation
- Design data
- Cultural resources considerations
- Outlet description and adequacy
- Cross-sections and profiles as appropriate
- Adequacy of vegetation
- Extent of pool in acre-feet if applicable
- Structures or appurtenances – manufacturer, certification, pertinent dimensions
- Size and elevation of pipe inlet and invert
- Access for maintenance

### **Subsurface Drain - 606**

- Mandatory documentation
- Design data
- Manufacturer and markings
- Length by size and kind
- Location and dimensions of all structures
- Elevations of outlet and normal water level in outlet ditch or stream
- Filter material
- Blinding
- Cover
- Periodic grade checks
- Access for maintenance
- Soil type
- Descriptions of filters or envelopes.

### **Surface Drainage, Field Ditch - 607**

- Mandatory documentation
- Design data
- Grade
- Spoil treatment
- Soil type
- Quantity computations if needed
- Profile and cross-section of ditch or representative ditch(es)
- Adequacy of vegetation
- Outlet adequacy and description
- Description and measurements of any structures involved
- Access for maintenance
- Pattern or layout of entire system if applicable

### **Surface Drainage, Main or Lateral - 608**

- Mandatory documentation
- Design data
- Grade
- Spoil treatment
- Design capacity
- Quantity computations if needed
- Soil type
- Profile and cross-section of ditch or representative ditch(es)
- Adequacy of vegetation
- Outlet adequacy and description

- Description and measurements of any structures involved
- Access for maintenance
- Pattern or layout of entire system if applicable

### **Terrace - 600**

- Mandatory documentation
- Design data
- Profile of channel and ridge
- Cross-section for one terrace in each field
- Land slope with vertical or horizontal interval
- Type and adequacy of outlet
- Length of each terrace in feet
- Adequacy of vegetation
- Outlets – description, condition, and adequacy
- Soil type

### **Terrestrial Invasive Plant Species**

#### **Pest Management – 797**

- Mandatory documentation
- Results of environmental risk assessments when chemical controls are used, form MN-CPA-025 or NRCS WIN-PST
- Identification of target pests and recommended pest management techniques (Control Plan)
- Location of sensitive resources and setbacks, if applicable. MN-CPA-047
- Practices to mitigate risk of pest management techniques having relatively high potential to impact non-target species. MN-CPA-047
- Operation and maintenance (part of control plan)
- Records (producer responsibility)

### **Tree and Shrub Establishment - 612**

- Mandatory documentation
- Soils
- Woodland management productivity table
- Species selection
- Tree/shrub planting plan. (MN-CONS-7) or appropriate planning jobsheet

### **Tree and Shrub Pruning - 660A**

- Mandatory documentation
- Species.
- Use of product.
- Pruning plan; age, spacing, height, percent removed etc.

### **Underground Outlet - 620**

- Mandatory documentation
- Design data
- Type and size of pipe
- Appurtenances and materials used – manufacturer, certification, pertinent dimensions
- Access for maintenance
- Adequacy of vegetation
- Depth
- Soil type

### **Upland Wildlife Habitat Management - 645**

- Mandatory documentation
- Wildlife group or species to benefit (Fish and Wildlife Habitat Management Guidesheets).
- Vegetative type to be established or managed.
- Method of establishment.
- Seeding plan (MN-CPA-003) or appropriate Biology Jobsheet.
- Tree/shrub planting plan (MN-CONS-7) or appropriate planning jobsheet.
- Maintenance/management recommendations (Biology Jobsheets).

### **Use Exclusion - 472**

- Mandatory documentation
- Practice objective.
- Type of exclusion.
- Starting and ending dates.
- Maintenance required.

### **Vegetative Barriers - 601**

- Mandatory documentation
- Species selection and establishment.
- Barrier alignment, width and gradient.
- Spacing.
- Seeding plan (MN-CPA-003).
- Management recommendations.

### **Waste Facility Cover - 367**

- Mandatory documentation
- Design data
- If prefabricated, manufacturer, markings, certification, and dimensions
- Appurtenances used – manufacturer, pertinent dimensions, certifications

### **Waste Storage Facility - 313**

- Mandatory documentation
- Computations for size, length, width, depth and thickness of walls
- Inlet and outlet design computations
- Vent and safety feature details
- Type of construction and reinforcing
- If prefabricated, manufacturer, markings, certification, and dimensions
- Appurtenances used – manufacturer, pertinent dimensions, certifications
- Consideration of wells

### **Waste Utilization - 633**

- Mandatory documentation.
- See documentation requirements of NRCS practice Nutrient Management-590.
- See plans and specifications section of NRCS practice 633-Waste Utilization.
- Records of carcass disposal, off-site transport of organic by-products, agricultural wastes used livestock feed, and uses of organic by-products.

### **Wastewater and Treatment Strip – 635**

- Mandatory documentation
- Waste characteristics, pretreatment
- Feedlot to filter area ration
- Length, width, slope
- Waste distribution system
- Soils and water table
- Seeding plan (MN-CPS-003) or appropriate planning job sheet

#### **Water and Sediment Control Basin - 638**

- Mandatory documentation
- Design data
- Profile and cross-sections as appropriate
- Size and elevations of pipe inlet and invert
- Depth and area of pool
- Pipe appurtenances as applicable
- Yardage computations if needed
- Quantities of materials
- Adequacy of vegetation

#### **Water Harvesting Catchment - 636**

- Mandatory documentation
- Design data
- Profile and cross-sections as appropriate
- Size and elevations of pipe inlet and invert
- Depth and area of pool
- Quantities of materials
- Adequacy of vegetation

#### **Water Well - 642**

- Mandatory documentation
- Design data
- Soil type
- Materials and appurtenances – manufacturer, certification, pertinent dimensions
- Type, depth, and size of pipe
- Access for maintenance

#### **Watering Facility - 614**

- Mandatory documentation
- Design data
- Materials used – manufacturer, dimensions, certification
- Adequacy of vegetation
- Surfacing materials – extent, thickness
- Access for maintenance
- Winter operation guidelines

#### **Well Decommissioning - 351**

- Mandatory documentation
- Design data
- Fill and sealing material - type, certification, source
- Soil type

#### **Wetland Creation - 658**

- Mandatory documentation
- Practice objective.
- Wetland functions planned.
- Hydric soils conditions to be created.
- Hydrologic conditions to be created.
- Vegetation to be established.
- Design data
- Average depth and area of pool.
- Appropriate elevations to check design
- Dimensions of water control structures
- Profile and cross-sections as appropriate
- Adequacy of vegetation

#### **Wetland Enhancement - 659**

- Mandatory documentation
- Practice objective.
- Wetland functions to be enhanced.
- Hydric soils conditions to be met.
- Hydrologic conditions to be established.
- Vegetation to be established.
- Design data
- Type and quality of materials
- Average depth and area of pool
- Adequacy of vegetation
- Dimensions of water control structures
- Appropriate elevations to check design, including cross-sections and profiles

#### **Wetland Restoration - 657**

- Mandatory documentation
- Practice objective.
- Wetland functions planned.
- Hydrologic restoration required.
- Hydric soils restoration required.
- Vegetation restoration required.
- Weed control provisions as applicable.
- Biology jobsheet as appropriate.
- Design data
- Measurements of completed structure
- Type and quality of materials
- Adequacy of vegetation
- Average area and depth of pool
- Dimensions of water control structures
- Appropriate elevations to check design, including cross-sections and profiles

**Wetland Wildlife Habitat Management- 644**

- Mandatory documentation
- Wildlife group or species to benefit (Fish and Wildlife Habitat Management Guidesheets).
- Classification of wetlands to be managed or preserved.
- Maintenance/management recommendations
- Engineering design as applicable.
- Seeding plan (MN-CPA-003).

**Windbreak/Shelterbelt Establishment - 380**

- Mandatory documentation
- Practice objective.
- Soils.
- Windbreak suitability group.
- Maintenance and erosion control.
- Tree/shrub planting plan (MN-CONS-7) or appropriate planning jobsheet.

**Windbreak/Shelterbelt Renovation - 650**

- Mandatory documentation
- Practice objective.
- Soils.
- Windbreak suitability group.
- Maintenance and erosion control.
- Thinning or pruning requirements.
- Tree/shrub planting plan (MN-CONS-7).