

EQIP

General Guidance Document – FY 2027

Conservation Practice Payment Methods:

PR – Payment Rate: The Payment Rate is the unit cost rate of compensation to be received by the participant. The Payment Rate for each practice or component has been established at the National and/or Regional level. Payment rates are based on the average cost to implement a practice.

Payment based on Payment Rates do not require the participant to submit bills or receipts. However, invoices, receipts, and other supporting documentation may be required to support the work performed meets practice standards and specifications.

TSP Payments – Actual cost, not to exceed a specified maximum, will be used for technical service provider (TSP) payments, receipts are required. TSP rates are located in Protracts along with all payment scenarios.

EQIP funds may be combined with other funds. EQIP does not pay for the same practice on the same land as any other USDA program. The participant should consult other program rules for maximum payment and other limitations.

FI = Foregone Income - Foregone income includes lost net income from a change in land use or land taken out of production, or the opportunity cost of accepting less farm income, with the aim of improving natural resource conditions for the landowner and the public at large.

PROGRAM PROVISIONS

1. Conservation Practice Payments are authorized for practices:
 - a. Implemented following the contents of the NRCS Field Office Technical Guide & site-specific designs.
 - b. Implemented following the:
 - i. General Provisions, and
 - ii. Specific provisions for each practice
 - c. Where positive environmental benefits from the benchmark condition can be documented.
 - d. Starting Practices – Applicants who start a practice before the contract is approved and final design provided (as applicable) by NRCS, causes the applicant to be ineligible for EQIP financial assistance for that practice. A waiver may be granted, under approved conditions, if the practice has not been started at the time of application and, the practice has not been started until after the waiver is granted 530.403 H (3)
2. Program Rates for 2027 EQIP contracts are the amount per unit as listed in the cost list. These rates are the amount the participant will receive upon completion of the practice, regardless of the cost of installing the practice. Cost list may be found here:
<https://www.nrcs.usda.gov/getting-assistance/payment-schedules>
FY2027 Cost list is scheduled to be posted in October of 2026.
3. While planners and engineering staff should work with the participant in selecting a treatment option that will address the identified resource concern in the most cost-effective manner, this does not limit the participant to the recommended conservation practice or activity. Treatment options must meet NRCS standards and specifications, address the identified resource concern, and be approved by an individual with NRCS job-approval authority. (530.13 A).
4. Payment is limited to installing the conservation practice to the extent necessary to meet the resource concern(s) addressed by the conservation plan. The practice must meet NRCS technical criteria to be eligible for payment. This does not preclude NRCS from working with the applicant or participant to plan a conservation practice or activity that exceeds the minimum requirements. 530.31 C (2)
5. Financial assistance for practices must be on land that is currently within contracted acres. Payments on land outside of the contracted acres are considered an improper payment.
6. The practice scenario selected should be the **best technical match** for what is being installed/implemented under that technical standard. 530.13 A

7. For certified Historically Underserved (HU) participants (Limited Resource Farmers, Beginning Farmers, and Socially Disadvantaged Farmers) the payment rate will be HU rate shown in the cost list. **For Participant who certify as a Historically Underserved participant, field staff MUST select the HU component in the cost list.**
8. For High Priority Practices, designated by the State Conservationist and State Technical Committee, these practices will be noted with “Pr” on the cost list. These rates **will** be used throughout the state within all funding pools/categories.
9. For Source Water Protection Practices, designated by the State Conservationist, Community Water Systems and State Technical Committee, these practices will be noted with a “Wp” on the cost list. These practice rates **will** only be used within the Designated Source Water Protection Areas within all funding pools/categories.
10. Practices on the EQIP schedule of operations must be based upon an agency approved conservation plan developed using NRCS planning procedures and technical planning. 530.31
11. Program applicants must comply with the provisions for protecting the interests of tenants and sharecroppers, including the agreed upon provisions for sharing payments. NRCS may request that the applicant provide written consent from a tenant when information indicates that the applicant is excluding tenants from a contract. This is to ensure that all parties with a share in the agricultural operation receive fair treatment and is applicable before contract obligation and to all owner or operator changes during the term of the contract. 530.22 D (4)
12. Applications crossing state, ranking pool, or servicing area boundaries will be developed and administered within the current FSA recording county. Participants may submit a request, in writing, to the State Conservationist to request a change in location.

GENERAL PROVISIONS

(Updates noted with an * under General Provisions)

1. NRCS Wetland Policy as found in the General Manual 190, Part 410 must be followed. This policy provides direction to the agency for compliance with the National Environmental Policy Act (NEPA). This policy prohibits NRCS from providing technical or financial assistance to participants that will adversely affect wetlands, unless the lost functions are fully mitigated.
2. Land Management Practices – 440-502 A Conservation practices that primarily require site-specific management techniques and methods to conserve, protect from degradation, or improve soil, water, or related natural resources in the most cost-effective manner. Land Management Practices have a lifespan of 1 year.
3. Ineligible Conservation Practices and Activities include those that the applicant previously implemented unless the applicant will achieve a higher level of conservation benefit as documented through the conservation planning assessment. 530.403 H (2)
 - a. Producers who have previously treated land with a management practice may be eligible to apply that same management practice to different land units if an identified resource concern exists.
 - b. Land management practices may be considered for reapplication IF a resource concern still exists and treatment will achieve a higher level of conservation benefit.
 - i. NOTE: If the same resource concern is being treated from a previous contract, the planner **must** document justification of reapplication and have concurrence from the Area Resource Conservationist.
 - ii. NOTE: Existing or historic practices must be accounted for in CART, once a resource concern exceeds the threshold, it is no longer eligible for financial assistance through EQIP.
4. When there is a change in the production system (i.e. cropland to grazing land), conservation practices are eligible when the change results in a higher level of environmental benefits and the producer implements management practices that **may** be written into the contract, to support the change. 530.403 C (1)

5. In order to address an identified resource concern, management practices will be scheduled for a minimum of 3 consecutive years on the same land unit, not to exceed 5 years. For circumstances less than 3 years, review and approval will need to be completed by an Area Resource Conservationist.
 - a. If a planner discovers that a planned land unit does not meet standards and specifications during the course of 3 consecutive years, the Area Resource Conservationist must review and determine if the land unit will be modified from the current year's payment, the rest of the contract; or if cancellation or termination is warranted.
6. Land Management Practice CPS Cover Crops and CPS Annual Forages for Grazing Systems may be planned/scheduled up to 5 years per land unit and does not have to be scheduled consecutively in the contract or on a land unit.
7. Practices must be planned/scheduled in the appropriate month. Examples: 329 in May, not November; 380 in May, not January.
8. Land enrolled in other conservation programs may be ineligible for EQIP. 530.402 E (1).
9. Conservation Reserve Program (CRP) - Landowners or operators with active CRP contracts may apply for and enroll their land in EQIP beginning on October 1 of the last fiscal year of the CRP contract in order to address the expected resource concerns of the land's return to production. They may begin the establishment of conservation practices under EQIP at that time; however, they cannot receive payment for those practices until after the CRP contract expires. 530.403 C (2)
10. *Program participants may elect to use a technical service provider (in lieu of NRCS) for technical assistance with developing plans, completing designs, and other actions (CPA, DIA, CEMA). 530.31F. Certification requirements for TSPs are available on the TSP website: [Technical Service Providers](#) . See Roles and Responsibilities for Engineering Technical Assistance to USDA Program Participants document found on the ND FOTG Section 1, Engineering Roles and Responsibilities.
11. At least one conservation practice or activity must be implemented within the first 12 months of the contract. The State Conservationist may approve a waiver to extend this timeframe if NRCS determines that the participant is unable to complete the conservation practice or activity for reasons beyond their control. 530.42 B(2) (d)
12. *Since program applicants may not modify or change their application once submitted, all applicants must be provided an equal opportunity to make informed decisions regarding their preferred alternative prior to ranking.
13. *Certain practices may only be eligible under specific ranking categories. Refer to ND bulletins for applicable resource concerns and practice list.
14. Create only one practice scheduler when applying for EQIP and RCPP in the same funding cycle.
15. *Contract waivers must be granted prior to contract obligations.
16. *Technical variances are required prior to ranking.
17. *Installed practices must be maintained for their lifespan. An up-to-date set of practice lifespans can be found by accessing the National Handbook of Conservation Practices: [NHCP Index for CPS \(Code\)](#).
18. Management practices needed to support the proper operation and maintenance of a financially assisted conservation practice are required in the schedule of operation (1155) and/or conservation plan.
19. Boundary Fence is allowed in limited cases: on land to facilitate a change in production systems; on land to protect, restore or enhance an environmentally sensitive area, such as a riparian area or wetland; on grassland not previously included in a grazing system; or adding expired or expiring CRP (see note above for eligible CRP acres) to a grazing system. Adding a boundary fence to land facilitating a change in production will require 528 to be contracted on those land units. Boundary fences will be reviewed and approved by an Area Resource Conservationist. Replacement fences are NOT eligible.
20. Virtual Fence scenarios will be allowed for cross fencing only.
21. * Grazing Management and facilitating structural practices are eligible if grazing provides at least 33% of the AUM requirements of the herd.

22. * Water developments, boundary fence, and cross fence on cropland are eligible for financial assistance through EQIP with the following provisions:
- a. During the contract period, 528 must be implemented on the cropland field a minimum of two years and a maximum of five years (financial assistance is optional). Practice 528 can only be scheduled on a field if there will be a grazable forage, such as CPS Cover Crops, Annual Forages for Grazing Systems, or on high residue crops.
 - i. When integrating livestock on cropland, CPS 528 will be exempt from the requirement of 3-5 consecutive years.
 - b. For implementing 528 on cropland, see the FOTG guidance document *528 ND GD Prescribed Grazing: Cropland Grazing to Promote Soil Health 2022*. Planners may also reference *Soil Health Technical Note 470-09 Cover Crop and Crop Aftermath Grazing*.
23. *Where small-scale production is taking place on a portion of larger land unit (such as within the confines of the Farmstead), those portions of the land unit should be sub-divided based on the primary type of production and assessed accordingly:
- a. Gardens, High Tunnels, or other similar areas producing primarily fruits and vegetables should be assessed as Crop.
 - b. Areas producing livestock primarily through means of grazing, browsing, or foraging should be assessed as Pasture or Range.
 - c. Areas producing livestock where daily nutritional requirements are obtained from other lands or feed sources should be assessed as Farmstead.

ENGINEERING PROVISIONS

General Notes

- Generally, new materials are to be used to install conservation practices. Used materials may be used if they are suitable for the proposed work, the expected service life is equal to or greater than the practice designed service life, and they are structurally adequate and environmentally acceptable. Evaluation procedures for used materials are detailed in the ND Amendment to Part 512, Subpart C of the National Engineering Manual. Used materials must not have been previously cost-shared under any Federal program. The determination of the eligibility of the used material shall be made prior to practice installation.
- Scenarios where the payment unit is measured by the cubic yard are based on the in-place estimated embankment volume. Use the largest of either the excavation or embankment total volume estimate. Earth-fill practice payments with units of cubic yard is calculated from designed stripping limit or NRCS approved stripping limit to the designed top of topsoil or NRCS approved finished elevation. Excavation practice payments with units of cubic yard is calculated from designed excavation limit or NRCS approved excavation limit to original ground.
- 500 – Obstruction Removal - The practice should be utilized only for structural practices on sites. 314- Brush Management shall be used for removal of trees or vegetation. Fence removal is applicable to animal feeding operations or sage grouse areas only.
- 560 - Access Roads and associated 578- Stream Crossings are authorized in the following situations:
 - To directly address a natural resource concern, such as streambed erosion, sedimentation, or aquatic habitat connectivity.
 - When needed to facilitate other conservation practices, for example access roads associated with an animal waste project or road relocation needed to install a stabilized stream crossing.
 - When needed due to the fact that another conservation practice will damage or render useless an existing access road or restrict access to land.
- 642 Water Well -
 - Financial assistance may not be used for irrigation wells, domestic wells to provide water to a residence, or a dry hole.

Energy Notes

- Type 2 ASABE S612 Energy Audit must be completed for the applicable portion of the operation, prior to planning any individual energy practice; with 374-Telemetry being exempt from an energy audit. The energy audit will be developed by a Certified Energy Auditor (CEA), a Certified Energy Manager (CEM), or a Professional Engineer licensed in North Dakota. For electric motor drive irrigation pumps 25 hp or larger, an evaluation by an NRCS engineer which documents energy savings payback time period to be less than or equal to the 15 year practice lifespan may substitute for the formal energy audit.
- A CEMA 228 -
 - A CEMA 228, which results in an energy audit, is available on any type of agricultural operation. Implementation of energy practices in North Dakota, are restricted to confined feeding operations, commercial greenhouses, or irrigation systems.
 - Agricultural Energy Assessment must be completed by a qualified individual as listed in the CEMA 228 and approved by the SCE prior to payment. A producer can hire an energy auditor to complete a Type ASABE S612 Energy Audit at their own expense. Scenarios refer to the production categories of farms per ANSI/ASABE S612 definitions and table 1.
- DIA 120 – Agriculture Energy Design - Contact the State Office for planning and contracting.
- 374 – Farmstead Energy Improvement scenarios for: Automatic Controller System, Heating, and Ventilation are applicable to indoor confined animal feeding operations only.
- 670 – Energy Efficient Lighting System is applicable to indoor confined animal feeding operations only.

Irrigation Notes

- Financial Assistance for irrigation-related practices with a purpose of water conservation must have a documented history of being irrigated two out of the last five years prior to date of application or have been granted a waiver. Irrigation history applies to the following practices:
 - 320 – Irrigation Canal or Lateral (must deliver to a field with irrigation history)
 - 430 – Irrigation Pipeline (must deliver to a field with irrigation history)
 - 436 – Irrigation Reservoir (must deliver to a field with irrigation history)
 - 441 – Irrigation System, Micro-irrigation (with the exception of shelterbelts)
 - 442 – Irrigation System, Sprinkler
 - 443 – Irrigation System, Surface and Subsurface
 - 449 – Irrigation Water Management
 - 464 – Irrigation Land Leveling
- Irrigation practices must result in a minimum 8% water savings, as modeled by the NRCS Farm Irrigation Rating Index spreadsheet version 2023 (10/18/2023).
 - 441 Irrigation System, Micro-irrigation are excluded from this requirement if they are an Urban Ag/Small Farm.
- Planning for 441, 442, 443, or 464 requires the following (excluding the microirrigation in a high tunnel standard drawing):
 - Evaluation of soil suitability for irrigation, see ND Engineering Planning Guide for Sprinkler System Irrigation for further guidance. The NRCS State Soil Scientist must provide written approval during planning of an engineering practice where “conditional” or non-irrigable” soils make up over 10% of the irrigated area.
 - Evaluation of water quality suitability for irrigation, see ND Engineering Planning Guide for Sprinkler System for further guidance. For irrigation systems whose source is groundwater, testing is required for EC and SAR within the irrigation season. An Area Engineer will evaluate and approve suitability of water sources in consideration of long-term salinity impacts.
 - Evaluation of water supply for irrigation. Planning documentation must show that 1) the ND Department of Water Resources permitted annual water volume is adequate to meet the IWR computed seasonal crop water requirement for the highest water use combination of crops in the rotation, and 2) the ND Department of Water Resources permitted maximum flow rate is adequate to meet the IWR computed peak consumptive use requirement in a 80% dry year, for the highest water use combination of crops in the rotation, or a variance may be granted for site specific scenarios.
- 441 Microirrigation in a high tunnel standard drawing – Planning worksheets shall be completed prior to ranking, use the supporting worksheets for additional criteria for soils and water quality requirements.
- 320 – Irrigation Canal or Lateral is appropriate to utilize for relocating canals or laterals to address a natural resource concern. New land may not be brought into irrigation as a result.
- 430 – Irrigation Pipeline may not be contracted for the sole purpose of increasing the capacity of an existing system to meet crop water needs only. When being utilized for the purpose of replacing an existing ditch or canal, estimated reduction in seepage must meet a minimum 8% annual water savings as modeled by the NRCS Farm Irrigation Rating Index spreadsheet version 2023 (10/18/2023) or substantiated through flow measurements or seepage testing upstream and downstream of the proposed lining section.
- 436 – Irrigation Reservoir may not be utilized to increase the area of land under irrigation.
- 442 – Sprinkler System
 - The linear foot of sprinklers includes only the span length of the mainline (not the end gun coverage area). The length of swing arms may be included only if they irrigate at least 15% of the overall sprinkler area.
 - System Renovation:
 - Renovation of Existing Sprinkler System is based on the length of the system.
 - Renovation of Existing Sprinkler System (non VRI) is a conversion from high pressure to low

pressure. Water savings from this practice may be calculated by FIRI, energy savings would be calculated based on pump performance.

- VRI System Retrofit Zone is applicable to retrofitting existing sprinklers to zone control variable rate irrigation in any of the following situations: 1) at least 15% of the currently irrigated area under the main span will be placed in shut off areas in average climatic condition years, 2) for two individual soils each making up at least 10% of the irrigated area under the pivot and the difference between the cumulative AWC of the two soils is 2 inches or greater for the deepest crop rooting zone 3) the site contains rolling topography with low areas that don't drain such that at least 15% of irrigated area under the main span is on convex slopes at least 10 feet above adjacent concave slopes. Renovation of Existing Sprinkler System should be contracted in association with this scenario if nozzles are at least 7 years old or their CU is less than 90.
- A flowmeter (through 587- Structure for Water Control) must be installed on each individual sprinkler system.
- EQIP financial assistance may not be provided solely for the purpose of installing a center pivot, gated pipe, etc. to spread liquid manure or wastewater. This does not include big guns.
- Incidental lands are minor inclusions of land to allow an irrigation to function properly and efficiently. For example, installing a pivot on a flood irrigated field may require the inclusion of small areas to allow the irrigation of a circular field instead of a square or odd shaped field. This is not meant to significantly convert currently non-irrigated to irrigated land, but to make the pivot or linear move fit as much as possible on land already having the required irrigation history.
 - Incidental lands may include up to 5% of acres to be irrigated that do not meet the irrigation history requirement.
 - For proposal to achieve a net of 5% via a "trade" of newly irrigated acreage for land to be taken out of irrigation, obtain approval prior to ranking from the ASTC-Programs.
- Center Pivot (Gravity to Pivot conversion) may not be used to install sprinkler systems in the corners of existing center pivots.
- 449 – Irrigation Water Management must be contracted for 3 (up to 5) years following installation of any structural irrigation practices, except for small scale systems utilized on high tunnels or gardens-which require only 1 year. IWM can be a standalone practice.
 - Soil moisture Sensors will be utilized for IWM when soil moisture probes are required, based on the IWM plan. Choose appropriate management level.
 - The "Soil Moisture Sensors with Data Loggers and Telemetry", And/Or "Advanced IWM," scenario is required for 3 (up to 5) years in conjunction with the installation of the 442 scenario for "VRI System Retrofit Zone".
 - "Advanced IWM" is the use of advanced methods to practice IWM. This scenario needs advance approval from an NRCS Engineer. This scenario is above and beyond soil moisture sensors scenarios.
 - For all scenarios record keeping as outlined in their individual IWM Plan, producers are required to provide records and meet with NRCS at the completion of each irrigation system to review.
 - 449 advanced IWM and Soil Moisture Sensors for a Microirrigation in a high tunnel require advanced approval from an NRCS engineer.
- 464 – Irrigation Land Leveling is applicable to fields requiring a minimum of 160 cyds/acre to level. Land planning is considered normal maintenance for surface irrigated fields and is not eligible for EQIP financial assistance.
- 533 – Pump Scenario "Variable Frequency Drive" for irrigation is limited to sites where energy savings payback time period is estimated to be less than or equal to the 15-year practice lifespan. Utilize the NRCS CNTC VFD evaluation spreadsheet in combination with either a field pump test or a pump curve.
- 533 – Pump may not be contracted for the sole purpose of increasing the capacity of an existing irrigation system. Replacement of a pump and motor for energy efficiency purposes requires either: 1) a Type 2 ASABE 6125 Energy Audit through a CEMA 228 or CSP or paid for out of pocket by the producer, or 2) analysis by an NRCS engineer showing a payback period less than equal to the practice lifespan of 15 years with the CNTC VFD

evaluation spreadsheet in combination with either a field pump test or a pump curve. 372 Combustion Engine to electric motor may be used for replacement of a diesel motor in association with the irrigation pump.

- 587 – Stream Crossing shall be used for pivot bridges. Utilize ND 207 standard drawing or Big Sky Pipe and Supply drawing.

Animal Feeding Operation Notes

- Prior to ranking an AFO application, the client will have an approved CNMP and preliminary design with accurate quantities from a TSP or NRCS Engineer. If at the time of ranking, there is no approved CNMP and preliminary design then the client should request to only be ranked for the CPA 102 and DIA 101. 316 – Animal Mortality Facility that is a stand alone practices does not require a CNMP.
- CPA 102/DIA 101 – Comprehensive Nutrient Management Plan and CNMP Design and Implementation must be contracted together. Application type will be conventional in ProTracts.
- 316- Animal Mortality Facility is only available for operations that average 100 pounds of daily death loss during operation. Practice scenarios for static pile concrete or wood bins typically require construction of a roof for moisture management, utilize PS 367- Roofs and Covers separately for the roof.
- 317- Composting Facility is not appropriate for use with carcasses, only manure or garden/greenhouse waste.
- 367 Roofs and Covers -
 - Contact the Engineering staff at the State Office for the planning and contracting of this practice.
 - Scenarios are available for sites which meet the ND PS 367 criteria for roofed animal production facilities, i.e. either 1) To replace and/or expand feedlots located above shallow glacial drift aquifers that have been rated by the ND Department of Environmental Quality as highly or moderately vulnerable to surface contaminants, or 2) To replace all, or portions of, outdoor feedlots when an economic analysis supports a confinement barn as being the most cost-effective long-term alternative to bring the current or future expanded operation into compliance with water quality standards.
 - These facilities are defined as roof structures that are used to feed livestock in a confined building where they do not have access to open lots November through July. Loafing sheds, where livestock have access to adjacent open lots are not eligible for financial assistance under this practice.
 - Working Facilities and drive lanes under the bedded pack barn are not available for financial assistance.
 - Listed payment rates which utilize timber or steel trusses, incorporates the cost of the truss supplier providing a North Dakota Professional Engineer stamped truss design containing drawings and supporting computations per the 2015 IBC and ASCE 7-10. The design package will be clearly marked with the correct physical address and producer name for the project.
 - The maximum area for financial assistance on a bedded pack barn will be based on the following maximum space requirements for financial assistance.
 - Dairy/Beef bed pack 50 sqft/head
 - Dairy/Beef slatted floor barn 27 sqft/head
 - Cow/Calf, 100 sqft/pair
 - Sheep 16 sqft/head
 - The roof area of the dry stack
 - Designs may be for additional square footage, at the discretion of the producer. Planning for associated waste storage facilities will be based on a minimum manure pack depth of 24 inches.
 - 558 Roof Runoff Structure shall be used for gutters.
 - For bedded pack barns, the concrete in the building will use 561 HUAP scenarios. The 313 bedded pack barn scenarios do not include compacted clay/ soil cement liners therefore 521 Pond sealing or lining geomembrane or geosynthetic clay liner or 520 Pond Sealing or Lining compacted soil treatment shall also be contracted.
 - When addressing an existing Air Quality Resource concern on an ag waste with a 367 Roof Structure:
 - For each animal moved off the lot, two animals can be under the roof. Typically beef lots are sized at 400 sq ft per animal, therefore at least 400 sq ft would need to be removed from the lot for each animal moved off the lot. This sizing also matches with the FY25 EQIP guidance for space allotment for the payment on a confinement fence on an open lot. The minimum number of

animals that must be removed from the lot is 25% of the total animals or 150 animals. (producer will choose). For cow calf operations they are considered 1 animal.

- The 400 sq ft of lot area per animal will be required to be abandoned. All existing infrastructure must be removed, ie, feed bunks, fencing and waterers and the area seeded back to grass or used for the new building and supporting infrastructure. The amount of lot area abandoned is dependent on how many animals will be moved under the new roof structure. 500 obstruction removal can be utilized for the removal of infrastructure along with other applicable conservation practices to abandon the lot.
 - Example: 200 animals removed from the lot and placed under a roof. New roof structure for 400 animals and 80,000 sq ft of lot would be abandoned and all infrastructure removed.
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- 382 Fence – Financial assistance for the exterior confinement fence of an open lot feedlot is allowed up to 400 square feet per head designed for the lot. Where livestock shelter structures are installed on the fence line, this cannot be doubled up with confinement fence.
 - 462 Precision Land Forming and Smoothing can be used for the grading and shaping of feedlots to provide drainage and site preparation for open lots and 367 Roof Structures. The greater of the earthfill or excavation quantity will be used.
 - 468-Lined Waterway or Outlet for erosion control features at diversion outlets to protect pond side slopes.
 - 533 Pumping Plant Manufacturer recommended pumping equipment necessary for proper operation of the waste transfer, treatment, and/or storage system. Portable pumps are eligible when equipment is moved to reduce costs by eliminating the need to install more than one piece of fixed equipment or are determined to be the most practical alternative from an engineering standpoint.
 - 561 – Heavy Use Area Protection may not be utilized for construction of concrete slabs utilized for feeding, feed bunks, or lanes adjacent to feeding areas. Financial assistance is available for the concrete apron adjacent to the feed bunk on the inside of the feedlot for manure management when in conjunction with an ag waste system that includes a 313 Waste Storage facility or a 635 Vegetated Treatment Area. Outdoor lot concrete aprons are limited to a concrete pad 12 feet wide, with a maximum length of 1.5 feet per animal unit (AU). Additional pad length of 20 feet may be added to accommodate equipment access at feedlot gates. Anything above that will be at the producer's own expense. 313 Waste Storage Facility Bedded Pack barn shall be used for concrete under a 367 Roofs and Covers.
 - 590 – Nutrient Management related to the implementation of an Animal Feeding Operation must be contracted for three years (not to exceed 5 years). The acres must be operated by the applicant in order to be contracted.
 - 614 - Watering Facility, the "Frost Free Tank" is only available for use in animal feeding operations Utilize PS 561-Heavy Use Protection for the additional concrete around the Frost Free Tank.
 - 632 – Waste Separation Facility units of cubic feet reference the design storage volume, including freeboard, of the proposed structure to the inside dimensions of concrete walls or earthen slopes. The applicable payment scenario for 632 will be used when a 587 Structure for water control concrete box with outlet pipe used for AFO runoff conveyance from the lot to the pond, this is the best fit scenario.
 - 634 – Waste Transfer scenarios for "Agitator, Reception Pit" do not include the cost of a pump for combination units, therefore 533 may be used in conjunction with 634.
 - 442 – Traveling Gun System or Big Gun Cart – used to apply the waste to a field.
 - The following are examples of practices that would be eligible for financial assistance due to relocations or modifications to animal feeding operations:
 - Livestock water source when the design or relocation of the existing facility has reduced the use of the current water source. Financial assistance is not authorized when a new animal waste facility or expansion of an existing facility creates the need for additional water quantity or watering facilities.
 - Livestock pipeline when the design or relocation of the facility reduces or eliminates the use of the existing pipeline.
 - Tanks when the design or relocation of the facility has reduced the use of the current water tank. Financial assistance is not authorized when a new animal waste facility or expansion of an existing facility creates the need for an additional water tank(s).

Water Management Notes

- A ND Department of Water Resources form SFN 51695 “Application/Notification to Construct or Modify a Dam, Dugout, Dike, Ring Dike, or Water Resource Facility is required for the following practices. In addition, the U.S. Corps of Engineers and the ND Department of Water Resources should be contacted to confirm the need, and likelihood of future approval, for any additional permitting prior to moving forward with an EQIP application.
 - 348 – Dam, Diversion
 - 356 – Dike
 - 362 – Diversion
 - 436 – Irrigation Reservoir
 - 378 – Pond
 - 313 – Waste Storage Facility
 - 402 - Dam

Some installations of 350- Sediment Basin, 368- Water and Sediment Control Basin, 658- Wetland Restoration, 658- Wetland Creation, and 410- Grade Stabilization could require the SFN 51695 as well.

- Embankment dam practices installed under either 402- Dam, 378- Pond, or 348- Dam, Diversion must be fully brought up to NRCS standards if financial assistance is applied to any portion of an existing structure.
- 356- Dike or Levee - Utilize when an embankment is constructed adjacent to a river, wetland, or water body to limit the lateral extents of flooding. Utilize 362- Diversion for embankments built for the purpose of directing surface water runoff.
- 362- Diversion provides a scenario for earthen diversion channels only. Utilize 587- Structure for Water Control for closed conduits that divert water, or 634- Waste Transfer for concrete conduits or pressure pipe related to polluted stormwater at animal feeding operations.
- 378 – Pond –
 - When embankment dams are constructed at sites accessible to livestock, must also include an associated 382- Fence practice to exclude livestock from the embankment and emergency spillway. Site specific consideration of bird mortality, versus improved water quality and reduced sedimentation, should be made when deciding whether to fence the entire pond perimeter.
 - May utilize 468-Lined Waterway for special stabilization measures on the auxiliary spillway and 484-Mulch as needed to promote revegetation.
 - Utilize the scenario for “excavated pit” for impoundments with embankments of less than 3 feet or where principal spillway conduit is less than 24 inches. Sediment removal from existing ponds that have been in place for less than the practice lifespan (20 years) is considered maintenance and is therefore not eligible for EQIP.
- 402- Dam is only applicable to dams that fall under NRCS TR-60 engineering design criteria. All other embankment dams fall under 378- Pond.
- 462 – Precision Land Forming will be used for closing a pond or dugout.
- 554- Drainage Water Management is a management practice associated with managing a 587- Structure for Water Control or 533- Pumping Plant for water table control on existing drain tile, should be contracted for 3 years minimum, not to exceed 5 years.
- 587 – Structure for Water Control may be utilized for a water control structure on new or existing tile drainage systems to facilitate Drainage Water Management, to convey water for the purpose of addressing a resource concern or facilitating another conservation practice, or for water measurement. For bioreactors at tile outlets, two separate 587 structures should be contracted (at the inlet and outlet). Units of Dia In Ft should be determined based on the equivalent weir length of the outlet pipe, with a maximum length of 60 ft for buried inline control valves or inline riser structures.

- 606 Subsurface Drain - Other scenarios are applicable for lowering the water table in association with structural practices such as 313- Waste Storage Facility, 412- Grassed Waterway and 638 WASC0B.

Erosion Control Notes

- 410 – Grade Stabilization Structure scenario quantity computations should be done as follows:
 - Pipe Drop, Steel = Riser Weir Length x Barrel Length
 - Pipe Drop, Plastic = Riser Weir Length x Barrel Length
 - Drop Structure, Weir = Area of Sheet Pile
- 410 – Grade Stabilization Structure installed to stabilize a spillway requires that the entire dam structure be brought up to meet 378- Pond or 402- Dam standards as appropriate to size and hazard class.
- 462 – Precision Land Forming and Smoothing may not be used solely to improve drainage for the purpose of increasing agricultural production..
- 558 – Roof Runoff Structure is contracted on the basis of actual gutter length. Buried conduit to route downspout discharge to a stable outlet location falls under 606- Subsurface Drain.
- 575 – Trails and Walkways payment scenario units reflect the average fill at the centerline. Scenarios cover earthwork to construct a non-surfaced trail or walkway therefore utilize 342- Critical Area Planting or 561- Heavy Use Protection for surfacing.
- 578 – Stream Crossing may be utilized for either roads (560) or animal trails and walkways (575) to address an existing resource concern. It may also be used for pivot bridges.
- 580 – Streambank and Shoreline Protection “Shaping” scenario assumes 4 cyds/lineal foot of bank excavation. Utilize 462- Precision Land Forming or 466- Land Smoothing for excess. “Bioengineering” scenario assumes 4 cyds/lineal foot of bank plus costs to install encapsulated soil lifts, log cribs, ballasted large woody debris, branch packing, live fascines or other techniques. For bioengineering, do not double contract 612- Tree/Shrub Establishment. “Riprap” scenario may be used for blanket riprap or rock barbs, and includes the cost of sand filter or geotextile, as well as 6 cyds/lineal foot of bank.
- 587 – Structure for Water Control, applicable scenario will be used for pipes under a road.
- 620 – Underground Outlet -
 - Payment for Underground Outlet is authorized as a supporting practice for Denitrifying Bioreactor (605) and Saturated Buffer (604) if the pipe is needed to transport discharge from the structure to a stable outlet.
 - Practice is installed in conjunction with terraces, diversions, water and sediment control basins, waterways or similar practices.

Facilitating Practices for Grazing System Notes

- 516 – Livestock Pipeline. Multiple scenarios may be necessary to reflect site conditions for different portions of a pipeline project.
 - Use of the scenario “Difficult Trenching Conditions” is applicable to rocky soils, high water table conditions, or other situations that require the use of a backhoe or excavator for pipeline installation, this would be the implementation cost, including pipe cost.
 - Horizontal Boring scenario includes carrier pipe, pipeline and horizontal boring equipment, excavator and labor.
 - The scenario for “Rural Water Connection Equipment” includes manhole, meter, pipe and valves. Pipeline from main rural water line to meter pit is not eligible for payment because the rural water maintains this section of pipeline.
- 533 - Pumping Plant may not be used in conjunction with a watering system where the existing water well provides water to the residence or for winter feeding.
- 576 – Livestock Shelter Structure scenario for “Wind Shelter” is eligible for use in feedlot relocations or reconfigurations only within a Sage Grouse Initiative area on cropland, hayland, or pastureland where an existing fence will separate the native rangeland. Producer payment for a wind shelter will be determined based on existing livestock numbers at the time of application.
- 614 – Watering Facility scenarios include the cost of wildlife escape ramps. Utilize 561- Heavy Use

Protection for the course gravel, crushed rock, scoria, or apron around the watering facility.

- Permanent, Small is less than 750 gallons.
- Permanent, large is greater than 750 gallons.
- The scenario for “Insulated Tank with Cover” is available on rangeland for winter grazing, not winter feeding, and must be supplied by a pipeline below the frost line (see practice standard 516 requirements).
- The “Frost Free Tank” scenario is only available for use in animal feeding operations or when the drink space requirement can be met with a winter grazing plan. utilize PS 561-Heavy Use Protection for the additional concrete required.
- 614 – Watering Facility – For contracting purposes, since it is impossible to install watering facilities that will exactly match what is calculated as required storage on the ENG-39, use closest common size available tank which will meet the minimum required storage.
- For feedlots or high intensity grazing systems, where flow rate and perimeter distance govern the watering facility design, the minimum tank volume corresponds to a common tank size that provides the required access for the herd, per the ENG-39.