

575	Animal Trails and Walkways	G1	Install a travel lane to provide livestock with a stabilized walking surface to reduce erosion and provide access to forage. Refer to the conservation plan map for the location of the travel lane. Follow the site-specific design and construction plan developed using the Conservation Practice Standard for Animal Trails and Walkways. Maintain the travel lane as specified in the Operation and Maintenance Plan included in the design packet.
314	Brush Management	G1	Manage or manipulate stands of shrubs, trees, and forbs to improve or restore quality plant diversity. Plant cover to reduce soil erosion, increase water quality, water quantity and water availability, increase quality and production of desirable plants for livestock. Enhance aesthetics and recreational qualities by methods including mechanical, chemical, biological, or by prescribed burning. Refer to the conservation plan map for the fields that Brush Management is to be implemented. Follow the Operations and Maintenance Plan that is included in the Job Sheet for Brush Management.
327	Conservation Cover	G1	Establish and maintain perennial vegetation in areas that will not be used for agricultural production to reduce soil erosion, and improve water quality and wildlife habitat. Control competition until perennial vegetation is established. After cover is established, mow one-third of the field each year during the month of August if needed to prevent volunteer establishment of trees and shrubs. Refer to attached Job Sheet for additional details including fertility, site preparation, planting rates, planting dates, and maintenance.
328	Conservation Crop Rotation	G1	Plant crops as listed: Generally High residue no-tilled crops such as corn, grain, or hay crops may be added to the rotation without increasing soil loss. Crops with low residues and with tillage generally cannot be added to the rotation without the additional use of conservation practices or by adding additional years of high residue no-till crops or hay to the rotation. Lime and fertilizer will be applied based on soil tests and current PSU Agronomy Guide recommendations. When soil tests are high in P and/or K, recommendations may indicate that no nutrient applications are needed. Pest management will be based on Pest Management Recommendations found in the current PSU Agronomy Guide. Additional information, including the cropping sequence, can be found in the attached Job Sheet for Conservation Crop Rotation.
		G2	Plant crops as listed: Apply lime and crop nutrients based on soil tests and current PSU Agronomy Guide recommendations. Pest management will be based on Pest Management Recommendations found in the current PSU Agronomy Guide. Additional information, including the cropping sequence, can be found in the attached Job Sheet for Conservation Crop Rotation.
		G3	Plant crops as listed: Apply lime based on soil test recommendations. Apply crop nutrients based on a nutrient management plan meeting conservation practice standard 590. Pest management will be based on Pest Management Recommendations found in the current PSU Agronomy Guide. Additional information, including the cropping sequence, can be found in the attached Job Sheet for Conservation Crop Rotation.
		G4	Plant crops as listed: Apply lime based on soil test recommendations. Apply crop nutrients based on a Nutrient Management Plan meeting conservation practice standard 590. Pest Management will be based on a Pest Management Plan developed using conservation practice standard 595.

			Additional information, including the cropping sequence, can be found in the attached Job Sheet for Conservation Crop Rotation.
		G5	Plant crops as listed: Apply lime and crop nutrients based on soil tests and current PSU Agronomy Guide recommendations. Pest management will be based on a Pest Management Plan developed using conservation practice standard 595. Additional information, including the cropping sequence, can be found in the attached Job Sheet for Conservation Crop Rotation.
332	Contour Buffer Strips	G1	Establish strips of perennial vegetation alternated with wider cultivated strips that are farmed on the contour on the field(s) indicated to reduce sheet and rill erosion. Recommendations for adapted species of grasses or mixtures of grasses and legumes to be used for the vegetation seedings and the Operation and Maintenance Plan are found on the attached Job Sheet for Contour Buffer Strips. Additional site specific requirements are found on the Job Sheet sketch.
330	Contour Farming	G1	Perform tillage, planting, and other farming operations on or as close to the contour as practical to reduce sheet and rill erosion, to reduce transport of sediment, and other waterborne contaminants. Maximum deviation from the contour will generally not exceed two percent. A row grade of five percent or .5 times the field slope may be used for a distance not exceeding 200 feet to improve alignment for more practical farming. Maintain established contour base lines throughout the cropping system. Contour base lines are the locations where farm operations are started. Short rows should be generally in the center of the contoured field or area. Refer to the attached Conservation Information Practice Sheet for Contour Farming.
331	Contour Orchard and Other Fruit Area	G1	Plant orchards, vineyards, or small fruits so that all cultural operations are on or as close to the contour as practical to reduce soil and water loss, to better control and use water, and to operate farm equipment more easily. Maximum deviation from the contour will generally not exceed two percent. A row grade of three percent may be used for a distance not exceeding 150 feet to improve alignment for more practical farming. Maintain established contour base lines throughout the life of the cropping system and conduct all cultural operations parallel to the base line. All concentrated flows from the contouring system should be delivered to a stable outlet. See attached Conservation Practice Information Sheet for Contour Orchard and Other Fruit Area.
342	Critical Area Planting	G1	Establish permanent vegetation on sites with high erosion potential to reduce sheet and rill erosion. For further information including Operation and Maintenance Plan, seeding information, and mulching rates refer to the attached Conservation Practice Information Sheet for Critical Area Planting.
382	Fence	G1	Install fencing where indicated on the conservation plan map to confine or limit livestock access to streams or riparian areas. Standards and specifications including type of fencing, number or wire strands and the Operation and Maintenance Plan are found on the attached Job Sheet for Fencing.
412	Grassed Waterway	G1	Construct and or maintain a grassed waterway to reduce gully erosion and/or convey runoff from terraces, diversions, or other water concentrations to a stable outlet with adequate capacity to prevent ponding or flooding damages. Refer to the conservation plan map for the location of the

waterway. Construct according to the design developed using the Conservation Practice Standard for Grassed Waterway. Maintain the waterway as specified in the Operation and Maintenance Plan included in the design and/or Job Sheet for Grassed Waterway.

561	Heavy Use Area Protection	G1	Stabilize frequently and intensively used areas with vegetation, paving or surfacing material, and/or structures to reduce soil erosion and improve water quality. Refer to the conservation plan map for the location of the area to be stabilized. Follow the design developed using the Conservation Practice Standard for Heavy Use Protection. Maintain the area as specified in the Operation and Maintenance Plan included in the design sheet.
422	Hedgerow Planting	G1	Establish a border of trees or shrubs as indicated on the plan map to separate fields, to improve aesthetic values, and to provide wildlife food and cover. Follow the Operations and Maintenance Plan that is included in the Job Sheet for Hedgerow Planting.
590	Nutrient Management	G1	Manage the amount, source, placement, form, and timing of the application of nutrients and soil amendments to minimize agricultural non point source pollution to surface and ground water resources. All plant nutrients will be applied based on a nutrient management plan developed for the farm. Nutrients from all sources will be included. The plan will include field by field application rates and the season in which they will be applied. Nutrient management plan recommendations will integrate phosphorus considerations using the current phosphorous index. Additional guidelines and specifications are found in the attached Job Sheet for Nutrient Management.
512	Pasture and Hay Planting	G1	Establish a long term stand of adapted forage species of perennial, biennial forage plants to reduce erosion, improve water infiltration, improve water quality, and produce high quality forages for animal consumption. Refer to the conservation plan map for the fields that Pasture and Hayland Planting is to be implemented. Follow the Operation and Maintenance Plan that is included in the Job Sheet for Pasture and Hayland Planting.
595	Pest Management	G1	Plan and implement an integrated (prevention, avoidance, monitoring, and suppression strategies) approach to pest management to enhance the quantity and quality of commodities minimizing negative impacts of pest control on soil, water, plant, and animal resources and on humans. All methods of pest management must comply with Federal, State, and Local laws and regulations; including management plans for invasive pest species, noxious weeds and disease vectors. Follow the Operations and Maintenance Plan that is included in the Job Sheet for Pest Management.
516	Pipeline	G1	Install a pipeline eight inches or less in diameter, to convey water in adequate quantities to points for use by livestock, wildlife, or in recreational activities. Water distribution in pasture systems will allow uniform use of forages in pastures and more even distribution of manure. The capacity of the installed line shall meet the seasonal high daily water requirements for the number and species of animals to be supplied or the highest demand under other uses. Refer to the conservation plan map for the location of the Pipeline. Follow the Operation and Maintenance Plan that is included in the design packet for Pipeline.

378	Pond	G1	Develop an impoundment for holding water by constructing a dam, embankment or by excavating a pit or dugout to provide water for livestock, fish, wildlife, recreation, fire control, crop and orchard spraying or irrigation. Refer to the conservation plan map for the location of the pond. Follow the Operation and Maintenance Plan that is included in the design packet. The Pond shall be installed or developed in compliance with Federal, State, and/or Local laws and regulations.
528	Prescribed Grazing	G1	Manage grazing or browsing animals in order to maintain or improve the health and vigor of the desired forage plants. Maintain or improve livestock health and productivity, reduce accelerated soil erosion, maintain or improve soil condition, and water quality, quantity, and availability through proper management of the forage stands. Promote economic stability through proper grazing use and land sustainability. Follow the attached grazing plan for stocking rates, size of animals, acres to be grazed and other details in order to achieve the landowner objectives and to protect the natural resources. Refer to the conservation plan map for field location of the Prescribed Grazing System. Further information including the Operation and Maintenance Plan is found on the Job Sheet for Prescribed Grazing.
345	Residue and Tillage Management, Mulch Till	G1	Use minimum till planting methods to plant crops into a minimum of thirty percent surface residue to reduce sheet and rill erosion and improve soil quality. For further information including tillage and tools, use of manures and remaining residue amounts is found on the attached Job Sheet for Mulch-Till Residue Management.
329	Residue and Tillage Management, No-Till/Strip Till/Direct Seed	G1	Use no-till planting methods for planting the crops listed below. Crops will be planted directly into prior crop residues or into a cover crop. Additional information including remaining residue amounts is found on the attached Job Sheet for No-Till Residue Management.
329B	Residue Management, Mulch Till	G1	Use minimum till planting methods to plant crops into a minimum of thirty percent surface residue to reduce sheet and rill erosion and improve soil quality. For further information including tillage and tools, use of manures and remaining residue amounts is found on the attached Job Sheet for Mulch-Till Residue Management.
329A	Residue Management, No-Till/Strip Till	G1	Use no-till planting methods for planting the crops listed below. Crops will be planted directly into prior crop residues or into a cover crop. Additional information including remaining residue amounts is found on the attached Job Sheet for No-Till Residue Management.
391	Riparian Forest Buffer	G1	Establish trees or shrubs adjacent to and up gradient from watercourses or water bodies as indicated on the plan map to improve water quality. Specifications for this practice are provided in the attached Job Sheet for Riparian Forest Buffer.
		G2	Establish native trees and shrubs along the stream. Seed Hard fescue (8 lbs./ac.) on areas without adequate crop residues. Use mowing, herbicide treatment, or tillage to prepare the area

for planting. Plant at least four tree species and two shrub species by April 15, or after seedlings are dormant (leaf fall) in the fall. Mix species when planting and plant 100 to 150 seedlings/ac. Plant only trees adjacent to the stream. Control competing vegetation during the establishment period through mowing and/or herbicide application. Surfactants used with herbicides need to be safe for aquatic systems. Tree seedlings must be protected from deer browsing and other animal damage. If tree shelters are used, install shelters with a continuous vertical perforation. Shelters without perforations will be removed when sapling trunks are 1-1/2 inches in diameter at the top of the shelters. When used maintain tree shelters, including stakes and nets. Trees and shrubs will be considered established at the end of the fourth growing season following planting, unless otherwise determined and documented in writing by USDA personnel. After trees and shrubs are established, there will be no mowing in this area. Noxious weeds may be controlled by spot treatment with herbicides. No harvesting of herbaceous or woody vegetation is permitted for the life of the contract. Please see attached Riparian Forest Buffer Job Sheet.

G3 RIPARIAN FOREST BUFFER – CP22 (391) Establish native trees and shrubs along the stream. Seed Hard fescue (8 lbs./ac.) on areas without adequate crop residues. Use mowing, herbicide treatment, or tillage to prepare the area for planting. Plant at least four tree species and two shrub species by April 15, or after seedlings are dormant (leaf fall) in the fall. Mix species when planting and plant 100 to 150 seedlings/ac. Plant only trees adjacent to the stream. Control competing vegetation during the establishment period through mowing and/or herbicide application. Surfactants used with herbicides need to be safe for aquatic systems. Tree seedlings must be protected from deer browsing and other animal damage. If tree shelters are used, install shelters with a continuous vertical perforation. Shelters without perforations will be removed when sapling trunks are 1-1/2 inches in diameter at the top of the shelters. When used maintain tree shelters, including stakes and nets. Trees and shrubs will be considered established at the end of the fourth growing season following planting, unless otherwise determined and documented in writing by USDA personnel. After trees and shrubs are established, there will be no mowing in this area. Noxious weeds may be controlled by spot treatment with herbicides. No harvesting of herbaceous or woody vegetation is permitted for the life of the contract. Please see attached Riparian Forest Buffer Job Sheet.

574 Spring Development

G1 Utilize springs and seeps to improve water distribution, increase the quantity, quality and availability to water for livestock, irrigation, and other uses. Springs and seeps shall be installed or developed in compliance with Federal, State, Local laws and regulations. Refer to the conservation plan map for the location of the Spring Development. Follow the Operation and Maintenance Plan that is included in the design packet.

578 Stream Crossing

G1 Improve water quality, reduce stream-bank and streambed erosion, and provide access to other land units by creating a stabilized area or installing a constructed structure to provide a travel way for people, livestock, equipment or vehicles. Stream Crossing shall be installed or developed in compliance with all Federal, State and/or Local laws and regulations. Refer to the conservation

			plan map for the fields that Stream Crossing is to be implemented. Follow the Operation and Maintenance Plan that is included in the design packet.
		G2	STREAM CROSSING (578) Install a livestock crossing in accordance with NRCS standards and specifications at the stream location indicated. All permits and approvals will be obtained before installation.
580	Streambank and Shoreline Protection		
		G1	Use vegetation and/or mechanical structures to stabilize stream-banks or shoreline areas from scour and erosion where indicated on the conservation plan map. This practice shall be installed according to all Federal, State, and Local laws and regulations. All permits and approvals shall be obtained prior to installation. Maintain the installed measures by following the Operation and Maintenance Plan found on the design and/or practice information sheet.
585	Stripcropping		
		G1	Layout strips on the contour to protect against sheet and rill and reduce transport of sediment erosions in the fields indicated. Close growing, heavy residue or grass/hay crops are to be alternated with crops of less protective cover. Strip boundaries may not deviate from the contour more than five percent or .5 times the field slope for distances of 200 feet. Strip widths will be determined at the time of installation with slope and equipment size taken into consideration. Farm each strip from the outside boundary toward the center, keeping any short rows in the center of the field. Maintain the strip boundaries for the lifespan of the current cropping system. Further technical information and strip layout sketch are found on the Job Sheet for Strip-cropping.
587	Structure for Water Control		
		G1	Install a surface water inlet to control the direction, rate and or/level of water in the open channels or inlets. Refer to the conservation plan map for the location of the inlet. Follow the design developed using the Conservation Practice Standard for Structure Water Control or the Conservation Practice Job Sheet. Maintain the inlet as specified in the Operation and Maintenance Plan included in the design packet.
911	TA Design		
		G1	A NRCS certified Technical Service Provider (TSP) will be chosen by the producer to complete the related practice (item). The completion date will be no later than August 31 of the current year.

		G1	Drill, dig, bore, drive or use any other construction method, to make a hole into the aquifer so as to provide water for livestock, irrigation, and humans to facilitate proper use of vegetation on pastures for general farming operations. The Water Well shall be installed or developed in compliance with Federal, State and/or Local laws and regulations. Refer to the conservation plan map for the location of the Water Well. Follow the Operation and Maintenance Plan that is included in the design packet.
614	Watering Facility	G1	Provide adequately sized watering facilities for livestock at selected locations that provide erosion control; protects ponds, streams, and water supplies from contamination and enhances vegetative cover through better grassland management and proper grazing distribution. Facilities shall be sized to meet the peak demand of livestock needs within a day. Refer to the conservation plan map for the location of the Watering Facility. Follow the Operation and Maintenance Plan that is included in the design packet.
380	Windbreak/Shelterbelt Establishment	G1	Establish row(s) of trees and/or shrubs as indicated on the plan map for one or more of the following purposes: to reduce wind speed, for snow management, to improve wildlife habitat, for visual screening, to improve aesthetics, for energy conservation, and to reduce odor and air borne particulate matter. Specifications and the Operations and Maintenance Plan for this practice are provided in the attached Job Sheet.