MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	OK
2.	FIELD OFFICE	Anadarko, Chickasha, Pauls Valley
3.	MLRA	80A - Central Rolling Red Prairies
4.	COMMON RESOURCE AREA (CRA)	080A.40.009
5.	RESOURCE INTERPRETATIONS	*for each resource enter available interp data*
5.1	SOIL	
5.2	WATER	
5.3	AIR	
5.4	PLANT	
5.5	ANIMAL	
5.6	HUMAN	
6.	HYDROLOGIC UNIT	
7.	SYSTEM TEMPLATE LABEL	GILB1
8.	SYSTEM NAME	Central Rolling Red Prairies Urban (Ranchette) (Bottomland)
9.	PLANNING PHASE	Benchmark, Alternative, Planned
10.	PLANNING LEVEL	Resource Management System
11.	NRCS LANDUSE	Urban
12.	PLANNED CONSERVATION PRACTICES	*list practices in the system*

1. 197 - Riparian Forest Buffer
2. 198 - Dry Hydrant
3. 314 - Brush Management
4. 342 - Critical Area Planting
5. 350 - Sediment Basin
6. 362 - Diversion
7. 378 - Pond
8. 382 - Fencing
9. 394 - Firebreak
10. 399 - Fishpond Management
11. 410 - Grade Stabilization Structure
12. 412 - Grassed Waterway
13. 460 - Land Clearing
14. 466 - Land Smoothing
15. 468 - Lined Waterway or Outlet
16. 484 - Mulching
17. 512 - Pasture and Hayland Planting
18. 521 - Pond Sealing or Lining
19. 528A - Prescribed Grazing
20. 550 - Range Seeding
21. 558 - Roof Runoff Management
22. 560 - Access Road
23. 561 - Heavy Use Area Protection
24. 570 - Runoff Management System
25. 580 - Streambank and Shoreline Protection
26. 584 - Stream Channel Stabilization
27. 590 - Nutrient Management
28. 595 - Pest Management
29. 612 - Tree/Shrub Establishment
30. 638 - Water and Sediment Control Basin
31. 642 - Well
32. 644 - Wildlife Wetland Habitat Management
33. 645 - Wildlife Upland Habitat Management
34 648 - Wildlife Watering Facility
35. 660 - Tree/Shrub Pruning

13.	SYSTEM NARRATIVE	*describe how the practices work together as a system*

The system involves highly managed bermudagrass and occasional cool-season grasses such as fescue, ryegrass or bluegrass around homesites, in sparsely populated developments (3 to 20 acres/home). The pastures and lots associated with this development are usually managed with some type of rest/rotational grazing scheme to allow the vegetative cover to maintain health and vigor. Soil texture varies considerably, as does depth and exposure. Nutrient management activities are consistent with the needs of the vegetation. Pest management activities are consistent with recommended label directions. Critical area planting, pasture and hayland planting, range seeding, riparian forest buffer, mulching, tree/shrub establishment, sediment basin, grade stabilization structure, water and sediment control basin, lined waterway or outlet, prescribed grazing, wildlife upland habitat management, and fencing are used to control soil erosion and reduce sediment loads in runoff water leaving construction areas and the pastures and lots. Roof runoff management, runoff management system, water and sediment control basin, stream channel stabilization, streambank and shoreline protection, riparian forest buffer, and critical area planting are used to control or manage the runoff water in a safe manner. The animal resources are maintained in good balance with the plant resources, thus improving the overall animal health and management.

14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	1. Soil Erosion - Sheet and Rill	1. 4 Tons/Acre/Year	1. 21 Tons/Acre/Year; Improved vegetative cover through prescribed grazing.
	2. Soil Erosion - Concentrated Flow Classic Gullies	2. 3 Tons/Year	2. 97 Tons/Year; Improved vegetative cover, management strategies and stock densities.
	3. Soil Erosion - Streambank	3. 5 Tons/Year	3. 95 Tons/Year; Improved management techniques and vegetative cover with a reduction in soil loss and an improvement in water quality.
	4. Soil Erosion - Roadbanks	4. 5 Tons/Year	4. 45 Tons/Year; Improved use of structural and vegetative measures to curtail erosion problems when installing access roads.
	5. Soil Erosion - Construction Sites	5. 5 Tons/Acre/Year	5. 45 Tons/Acre/Year; Improvement in vegetative cover during construction with the aid of other structural practices; reduction in erosion rates, improved water quality due to less sediment.
	6. Soil Erosion - Scoured Areas	6. 5 Tons/Acre/Year	6. 45 Tons/Acre/Year; Establishing buffer zones, improving the suitability of the vegetation, and improving the soil organic matter content will readily reduce the magnitude of scour erosion.
	7. Soil Condition - Soil Tilth	7. Improved plant cover and productivity, reduced erosion.	7. Improved soil tilth and sustainability.
	8. Soil Condition - Compaction	8. Lower stock densities with some rest/rotational grazing.	8. Less soil compaction, increased infiltration, less runoff and erosion, less deposition, improved water quality.
	9. Soil Deposition - Damage Onsite	9. Improved vegetative cover with less erosion and deposition.	9. Decreased onsite damage from deposition.
	10. Soil Deposition - Damage Offsite	10. Sediment deposition is reduced due to improved vegetative cover and reduced erosion rates.	10. Reduction in sedimentation reduces offsite damage to drainage systems and water bodies; improvement in downstream water quality.
	11. Soil Deposition - Safety Offsite	11. Sediment deposition is reduced due to improved vegetative cover and reduced erosion rates.	11. Reduction in sedimentation reduces offsite safety hazards and decreases the potential for flooding.
	12. Water Quantity - Excess Amounts Runoff/Flooding	12. Roof runoff management and runoff management system applied. Improved management of the vegetation.	12. Reduced flooding problems with management of the runoff and improved vegetative cover.
	13. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Offsite)	13. Decreased sediment loads from construction sites, roadbanks, pastures and lots.	13. Flow capacity of drainage channels is maintained or improved.
	14. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Water Bodies)	14. Decreased sediment loads from construction sites, roadbanks, pastures and lots.	14. Storage capacity of downstream water bodies is maintained or improved.

14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	15. Water Quality - Surface Water Contaminates - Pesticides	15. Appropriate use of pesticides.	15. Improved downstream water quality.
	16. Water Quality - Surface Water Contaminates - Nutrients and Organics	16. Appropriate use of nutrients.	16. Improved downstream water quality.
	17. Water Quality - Surface Water Contaminates - Suspended Sediment and Turbidity	17. Reduced sediment yields with the reduction in erosion rates.	17. Improvement in water quality with less suspended sediment and turbidity.
	18. Plants Condition - Plant Productivity	18. Plant health and vigor improved due to prescribed grazing.	18. Plant productivity improved.
	19. Plants Condition - Plant Health and Vigor	19. Prescribed grazing applied.	19. Plant health and vigor improved.
	20. Plants Management - Establishment, Growth, Harvest	20. Stock density reduced and prescribed grazing applied.	20. Improved plant management.
	21. Plants Management - Nutrient Management	21. Appropriate and timely use of nutrients around homesites; increased use of nutrients in pastures and lots for increased vegetative productivity.	21. Plant nutrient needs are met due to improved nutrient management practices.
	22. Plants Management - Pest (Brush, Weeds, Insects, Etc.)	22. Appropriate and timely use of pesticides.	22. Improved pest management activities.
	23. Animal Habitat - Food	23. With the application of prescribed grazing, more vegetation is produced and utilized and less animal food is purchased.	23. Increased animal food supplies for both livestock and wildlife.
	24. Animal Management - Population and Resource Balance	24. Stock densities are reduced, vegetative production is increased.	24. Animal populations are brought in balance with the plant resources.
	25. Animal Management - Animal Health	25. Improved vegetative production and cover, improved nutrition.	25. Improvement in animal health conditions.

15.	QUALITY CRITERIA DOCUMENTATION *list resource concerns then indicate yes/no*		
	1. Soil Erosion - Sheet and Rill	__X_YES	____NO
	2. Soil Erosion - Concentrated Flow Classic Gullies	__X_YES	____NO
	3. Soil Erosion - Streambank	__X_YES	____NO
	4. Soil Erosion - Roadbanks	__X_YES	____NO
	5. Soil Erosion - Construction Sites	__X_YES	____NO
	6. Soil Erosion - Scoured Areas	__X_YES	____NO
	7. Soil Condition - Soil Tilth	__X_YES	____NO
	8. Soil Condition - Compaction	__X_YES	____NO
	9. Soil Deposition - Damage Onsite	__X_YES	____NO
	10. Soil Deposition - Damage Offsite	__X_YES	____NO
	11. Soil Deposition - Safety Offsite	__X_YES	____NO
	12. Water Quantity - Excess Amounts Runoff/Flooding	__X_YES	____NO
	13. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Offsite)	__X_YES	____NO
	14. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Water Bodies)	__X_YES	____NO
	15. Water Quality - Surface Water Contaminates - Pesticides	__X_YES	____NO
	16. Water Quality - Surface Water Contaminates - Nutrients and Organics	__X_YES	____NO
	17. Water Quality - Surface Water Contaminates - Suspended Sediment and Turbidity	__X_YES	____NO
	18. Plants Condition - Plant Productivity	__X_YES	____NO

15.	QUALITY CRITERIA DOCUMENTATION *list resource concerns then indicate yes/no*		
	19. Plants Condition - Plant Health and Vigor	__X_YES	____NO
	20. Plants Management - Establishment, Growth, Harvest	__X_YES	____NO
	21. Plants Management - Nutrient Management	__X_YES	____NO
	22. Plants Management - Pest (Brush, Weeds, Insects, Etc.)	__X_YES	____NO
	23. Animal Habitat - Food	__X_YES	____NO
	24. Animal Management - Population and Resource \ Balance	__X_YES	____NO
	25. Animal Management - Animal Health	__X_YES	____NO

Conservation Practice Physica ffects on Resource Concerns
Candidate Practice List

State Oklahoma **Field Office** **MLRA** 080A.40.009

Soil Intrepretations **Template Label** GILB

Resource Concerns > / Cons. Practices	Soil Erosion Sheet and Rill	Soil Erosion Conc. Flow Classic Gullies	Soil Erosion Stream-bank	Soil Erosion Road-banks	Soil Erosion Construc-tion Sites	Soil Erosion Scoured Areas	Soil Condition Soil Tilth	Soil Condition Compac-tion	Soil Deposi-tion Damage Onsite	Soil Deposi-tion Damage Offsite	Soil Deposi-tion Safety Offsite	Water Quantity Excess Amounts Runoff/ Flooding	Water Quantity Res.Flow Capacity Sed. Dep. (Offsite)
197	+	+	+	+	+	+	+	+	+	+	+	+	+
198	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
314	+	+	o	o	o	o	+	o	+	+	+	+	+
342	+	+	+	+	+	+	+	+	+	+	+	+	+
350	o	+	+	N/A	N/A	+	N/A	o	+	+	+	+	+
362	+	+	+	+	+	o	o	o	+	+	+	+	+
378	o	+	+	N/A	N/A	+	N/A	o	+	+	+	+	+
382	+	+	+	+	+	+	+	+	+	+	+	o	o
394	+	+	o	o	o	-	+	o	+	+	+	+	+
399	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	+
410	o	+	+	N/A	N/A	+	+	o	+	+	+	+	+
412	o	+	N/A	+	+	o	o	o	+	+	+	+	+
460	+	-	-	o	o	-	+	o	+	+	+	+	+
466	+	-	-	o	o	-	+	o	+	+	+	+	+
468	o	+	+	N/A	N/A	+	+	o	+	+	+	+	+
484	+	+	o	+	+	+	+	+	+	+	+	+	+
512	+	+	+	+	+	+	+	+	+	+	+	+	+
521	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	o	N/A
528A	+	+	+	o	o	+	+	+	+	+	+	+	+
550	+	+	+	+	+	+	+	+	+	+	+	+	+
558	+	+	o	+	+	o	o	o	+	+	+	+	+
560	o	+	+	+	+	+	N/A	+	+	+	+	+	+
561	+	o	+	+	+	o	+	+	o	+	+	o	o
570	+	+	o	+	+	o	o	o	+	+	+	+	+
580	N/A	o	+	N/A	N/A	+	N/A	N/A	+	+	+	+	+
584	N/A	o	+	N/A	N/A	+	N/A	N/A	+	+	+	+	+
590	o	o	o	o	o	o	o	o	o	+	+	+	o
595	o	o	N/A	N/A	N/A	o	o	o	o	o	o	N/A	o
612	+	+	+	+	+	+	+	+	+	+	+	+	+
638	o	+	+	N/A	N/A	+	N/A	o	+	+	+	+	+
642	+	+	+	o	o	+	o	o	N/A	N/A	N/A	N/A	o
644	-	-	+	+	+	+	o	+	-	+	+	+	+
645	+	+	+	+	+	+	+	-	-	-	+	-	-
648	o	+	+	N/A	N/A	+	N/A	o	+	+	+	+	+
660	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

+ = Positive Effect - = Negative Effect o = Negligible Effect N/A = Not Applicable

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State Oklahoma **Field Office** **MLRA** 080A.40.009

Soil Intrepretations **Template Label** GILB

Resource Concerns > / Cons. Practices	Water Quantity Res. Flow Capacity Sed. Dep. (W. Bod.)	Water Quality Surface Water Contam. Pesticides	Water Quality Surface Water Contam. Nut./Org.	Water Quality Surf. Wat. Contam. Susp. Sed. Turbidity	Plants Condition Plant Prod.	Plants Condition Plant Health & Vigor	Plants Mgmt. Estab. Growth & Harvest	Plants Mgmt. Nutrient Mgmt.	Plants Mgt. Pest (Brush, Weeds, Insects, Etc.)	Animal Habitat Food	Animal Mgmt. Population and Resource Balance	Animal Mgmt. Animal Health
197	+	+	+	+	+	o	+	o	o	o	o	o
198	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
314	+	o	o	o	+	+	+	N/A	+	o	+	+
342	+	+	+	+	+	N/A	+	N/A	+	+	+	+
350	+	N/A	N/A	+	+	+	+	N/A	o	+	+	+
362	+	+	+	+	+	+	+	N/A	+	+	+	o
378	+	N/A	N/A	+	+	+	+	N/A	-	+	+	+
382	o	+	o	+	+	+	+	N/A	o	+	+	+
394	+	o	o	o	+	+	+	N/A	+	o	+	+
399	+	+	+	+	N/A	N/A	N/A	N/A	N/A	+	o	+
410	+	N/A	N/A	+	+	+	+	N/A	-	+	+	+
412	+	+	+	+	+	+	+	+	+	+	+	o
460	+	o	o	o	+	+	+	N/A	+	o	+	+
466	+	o	o	o	+	+	+	N/A	+	o	+	+
468	+	N/A	N/A	+	+	+	+	N/A	o	+	+	+
484	+	+	+	+	+	N/A	+	+	+	o	o	o
512	+	+	+	+	+	+	+	+	+	+	+	+
521	N/A	N/A	N/A	+	N/A	N/A	N/A	N/A	N/A	N/A	N/A	+
528A	+	+	+	+	+	+	+	+	+	+	+	+
550	+	+	+	+	+	+	+	+	+	+	+	+
558	+	o	o	+	o	o	o	N/A	N/A	o	o	o
560	+	N/A	+	+	+	+	+	N/A	+	o	+	+
561	o	o	o	+	o	o	o	N/A	N/A	o	o	o
570	+	o	o	+	o	o	o	N/A	N/A	o	o	o
580	+	o	N/A	+	+	+	+	N/A	+	o	+	o
584	+	o	N/A	+	+	+	+	N/A	+	o	+	o
590	o	+	o	o	+	+	+	N/A	+	o	+	o
595	o	o	o	o	+	+	+	N/A	o	-	+	+
612	+	+	+	+	+	+	-	o	o	o	o	o
638	+	N/A	N/A	+	+	+	+	N/A	o	+	+	+
642	o	o	o	+	+	+	N/A	N/A	N/A	o	+	+
644	+	o	o	+	+	+	+	+	N/A	+	+	o
645	-	+	+	-	+	+	+	o	-	+	+	+
648	+	N/A	N/A	+	+	+	+	N/A	-	+	+	+
660	N/A	N/A	N/A	N/A	+	+	+	N/A	N/A	+	o	o

+ = Positive Effect - = Negative Effect o = Negligible Effect N/A = Not Applicable