



Open Space District

Site Management Plans

Completed Operating Year 2016

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Atkinson Road

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Trail, Oak Hickory Woodland, Mitigation Bank	Monitor	Monitor current/initial mitigation bank work in progress.	Ongoing	TWP Open Space Staff
		Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff
		Conduct a vegetative survey.	2020	Contractor, Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	TWP Open Space Staff
	Maintain	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Annually	TWP Open Space Staff
		Provide and maintain trail amenities including but not limited to: the trail, bollards, benches, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, etc.	Ongoing	
		Conduct visual trail inspections, especially after storm events. Mark unsafe trail conditions using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	
	Restore	As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.	2020	TWP Open Space Staff
		Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	2020	
		Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	2020	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Restore (continued)	Monitor restoration work in progress.	Ongoing	TWP Open Space Staff
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	2020	
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner association's, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, horseback riding, etc.	Ongoing	Supervisor, TWP Open Space Staff
A. Oak Hickory Woodland	Monitor	Ensure all clearing and herbicide work is up to standards in contractor's work plan.	Ongoing	TWP Open Space Staff
		Photo document regeneration of native vegetation.	Spring & Fall	
	Maintain	Cut and herbicide re-sprouts as needed.	2020	
		Implement burn plan.	2020	
B. Mitigation Bank	Monitor	Monitor current mitigation bank work in progress.	2016-2020	TWP Open Space Staff
	Maintain	Cut and herbicide re-sprouts as needed.	2020	
		Keep drainages and culverts free flowing and free of obstructions	As needed	
	Communication	Follow up with the mitigation banker for updates in documentation, work schedules, banking credits, etc.	Ongoing	Supervisor, TWP Open Space Staff
C. Trail	Monitor	Visually inspect trail integrity and document. Make sure that all necessary signs and permits are in place. Make sure all rules signs are visible and in good condition.	Ongoing	TWP Open Space Staff
	Maintain	Maintain trails by raking, mowing, etc. as needed to ensure safe conditions.	As needed	
			Patch and sealcoat asphalt trail every two years.	2017

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Butterfield Road (Canterbury)

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel	
Entire Parcel: Prairie, Wetland Mitigation Bank, Wooded Riparian Corridor, Trail, Mowed Park Lots, Stream Chanel	Monitor	Monitor clearing in progress for new invasives and re-sprouts.	Ongoing	TWP Open Space Staff	
		Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff	
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees	
		Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff	
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month		
		Continue to update and complete the tree inventory for unit "A".	Ongoing		
		Maintain agreement # 2761799 between Canterbury Homeowners Association and Township regarding tree planting and maintenance requirements for management unit "A".	Ongoing		
		Conduct a vegetative survey.	2019	Contractor, Open Space Staff	
		Maintain	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and repair if needed.	Annually	TWP Open Space Staff
			Install split rail fencing and bollards at all trail access points to limit unauthorized vehicular access.	2016	
Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, etc.	Ongoing				
Sealcoat asphalt trailheads every two years.	2017				
Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly				

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Restore	As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.	Annually	TWP Open Space Staff
		Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	Ongoing	
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2016	TWP Open Space Staff, Contractor
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross-country skiing, horseback riding, etc.	Ongoing	Supervisor, TWP Open Space Staff
A. North Prairie, Wetlands, Mowed park lots, Trail	Maintain	Maintain and mow grass, edge beds and sidewalk edges, trim trees, install mulch, pull weeds, etc. in order to provide an aesthetically pleasing view for users and nearby residents.	Seasonally as needed	TWP Open Space Staff
		Evaluate the need to herbicide and/or fertilize turf grass.	Seasonally as needed	
		Evaluate the need for trail resurfacing.	2018	TWP Open Space Staff, Supervisor

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A. North Prairie, Wetlands, Mowed park lots, Trail (continued)	Restore	Conduct prescribed burn in accordance with burn plan.	Spring 2016	TWP Open Space Staff, Contractor
		Enhance and encourage short grass prairie.	Annually	TWP Open Space Staff
		Conduct follow up treatments to invasive plants.	2016	
		Inter-seed in herbicided and burned areas with native short grass prairie species, plant trees and shrubs as funding becomes available.	2016	
	Maintain	Trim and prune planted trees. Remove dead ash trees.	2016-2018	
B. Mitigation Bank, Prairie, Wetlands, Trail	Control water level	Seasonally adjust water level to aid in controlling invasive wetland vegetation. Stop logs are to be raised in the winter and lowered in the spring.	Seasonally as needed	TWP Open Space Staff
	Maintain	Maintain and mow grass, trim trees, install mulch, pull weeds, etc. in order to provide an aesthetically pleasing view for residents.	Seasonally as needed	TWP Open Space Staff
	Restore	Continue initial clearing and herbiciding of invasive trees.	2016-2017	TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
		Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership. Especially focus on control of phragmites and reed canary grass.	2016	
		Evaluate need for large scale herbicide project to control wetland invasives such as phragmites and reed canary grass. If needed prepare bid documentation.	2018	Contractor, TWP Open Space Staff
	C. Riparian Corridor, Mitigation Bank, Stream Channel, Wetland	Restore	Keep drainage free flowing and free of obstructions. Continue to follow recommendations outlined in the Lake County Storm Water Management plan. Seek grant opportunities for restoration.	As needed
Evaluate footpath usage and possible improvements.			2016	Supervisor, TWP Open Space Staff
Evaluate need for large scale herbicide project to control wetland invasives such as phragmites and reed canary grass. If needed prepare bid documentation.			2018	Contractor, TWP Open Space Staff
Maintain		Continue initial clearing and herbiciding of invasive trees.	2016-2017	TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Casey North (Oak Openings)

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Preserve: Retired Agriculture Field, Successional Woodland Restoration area, Oak Woodland, Wet mesic Floodplain Forest, Wooded Riparian Corridor, Trail, Parking Lot, Agriculture Field	Monitor	Conduct a vegetative survey excluding agriculture fields.	2016	Contractor
		Conduct regular site visits. Inspect boundaries and encroachments. Update the encroachment inventory. Document conditions.	Every Other Month	TWP Open Space Staff
		Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	
		Evaluate burn plans and implement prescribed burns in accordance with burn plans.	Annually	TWP Staff, Conserve Lake County, Volunteers
		Continue to monitor and prevent creek bank erosion by installing erosion control measures.	Ongoing	TWP Open Space Staff
		Evaluate the need for trail resurfacing.	2016 - 2018	TWP Staff, Supervisor
	Maintain	Provide and maintain limited, appropriate visitor amenities such as: trail, bollards, parking lot, portable toilet, picnic table, garbage cans, kiosks, benches, dog waste receptacles, etc.	Annually	TWP Open Space Staff
		Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Annually	
		Maintain INPC signage along boundaries. Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.	Annually	
		Install equestrian dismount blocks at horse trail head and the Rt. 45 underpass.	2016	
		Install "no snowmobile" signage seasonally to discourage snowmobile usage.	Annually in fall	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel	
Entire Preserve (continued)	Restore	Install seed, trees, shrubs, and plugs that meet INPC specs as funds become available and when appropriate.	As needed	TWP Open Space Staff, Volunteers	
		Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	Annually		
		Continue to explore future opportunities for volunteer workdays.	Monthly	TWP Staff, Supervisor, Conserve Lake County	
		Explore opportunities to implement the board approved Casey Road Land Use Plan.	Ongoing	TWP Open Space Staff, Supervisor, Conserve Lake County	
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2016	TWP Open Space Staff, Volunteers, Conserve Lake County	
	Document	Photograph individual management units during growing season and dormant season.	Annually	TWP Open Space Staff	
		Complete and submit INPC annual report.	Annually Feb. 15	TWP Open Space Staff, Supervisor	
		Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017		
		Obtain information including but not limited to: volunteer workday results, vegetation monitoring, bluebird monitoring, annual easement monitoring, etc.	Monthly		
	Communication	Continue communications with INPC and LCFPD.	Ongoing	TWP Staff, Supervisor, Conserve Lake County	
		Provide information and outreach to neighboring homeowners, homeowner associations, local horse stables, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County	
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross-country skiing, horseback riding, etc.	Ongoing	Supervisor, TWP Open Space Staff	
	A. Retired Agriculture Field	Restore	Control invasives: reed canary grass and Canada thistle, and clover.	Annually	TWP Open Space Staff, Volunteers
			Prescribe burn in accordance with burn plan.	2016	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
B. Riparian Corridor	Maintain	Continue initial clearing of the creek corridor removing invasive species.	Winter 2016-2017	TWP Open Space Staff, Volunteers, Conserve Lake County
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
		Control invasives: buckthorn, yellow flag iris, phragmites, honey suckle, barberry, and reed canary grass.	Annually	
		Prescribe burn in accordance with burn plan.	Fall 2016	
		Keep drainage free flowing and free of obstructions. Continue to follow recommendations outlined in the Lake County Storm Water Management plan. Seek grant opportunities for restoration.	Annually	TWP Open Space Staff, Volunteers
		Monitor erosion of creek banks and gullies and take appropriate action when needed.	Ongoing	TWP Open Space Staff
C. Retired Agriculture Field	Restore	Control invasives: reed canary grass, sweet clover, woody invasives, and brome.	Annually	TWP Open Space Staff, Volunteers
		Prescribe burn in accordance with burn plan.	2016	TWP Staff, Conserve Lake County, Volunteers
D. Mesic Oak Woodland	Restore	Conduct initial clearing removing buckthorn, honeysuckle and Japanese barberry.	Winter 2016-17	TWP Open Space Staff, Volunteers
		Prescribe burn in accordance with burn plan.	2017-18	TWP Staff, Conserve Lake County, Volunteers
E. Mesic Oak Woodland	Restore	Prescribe burn in accordance with burn plan.	2016	TWP Staff, Conserve Lake County, Volunteers
		Partner with LCFPD to manage this unit in tandem with adjacent parcel (Almond Marsh) when appropriate.	Ongoing	Supervisor, TWP Open Space Staff, LCFPD
		Continue clearing woody invasives moving north to property line.	Winter 2016-17	TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
	Maintain	Maintain Almond Marsh footpath and trail markers, spread woodchips as needed.	Annually	TWP Open Space Staff, Volunteers

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
F. Savanna	Restore	Control invasives: reed canary grass, brome, Canada thistle, garlic-mustard, buckthorn and dames rocket.	Annually	TWP Open Space Staff, Volunteers, Conserve Lake County
		Prescribe burn in accordance with burn plan.	2016	
G. Retired Agriculture Field, Walnut Grove	Restore	Control invasives: Canada thistle, reed canary grass, multiflora rose and brome.	Annually	TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	TWP Open Space Staff
H. Ketting Wetland Mitigation	Restore	Control invasives: reed canary grass, phragmites, and Canada thistle.	Ongoing	TWP Open Space Staff
		Prescribe burn in accordance with burn plan.	2016	TWP Staff, Volunteers, Conserve Lake County
		Evaluate need for large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	Ongoing	Contractor, TWP Open Space Staff
I. Agriculture Fields	Monitor	As farm license expires (12-31-2016), continue to review license and explore restoration opportunities outlined in the Board approved Casey Road Land Use Plan.	2016	Supervisor, Trustees, TWP Open Space Staff
		Review ingress and egress easement (driveway) with landowner.	2016	Supervisor, TWP Open Space Staff
	Restore	Seek grant opportunities to remediate priority erosion issues, as per the Bull Creek/Bull Brook Watershed Plan, Casey Road Land Use Plan, Liberty Prairie Master Plan.	Ongoing	Supervisor, Conserve Lake County, TWP Open Space Staff
	Casey Road Restoration - Phase I	Field 3 - Remove drainage tiles, erosion control, prepare for seeding, seed. Follow Donneley Grant documentation requirements. Lease expiration (12-31-16).	2016-2017	Supervisor, Conserve Lake County, TWP Open Space Staff, Contractor
J. Baxter Grove	Monitor	Review and evaluate farm license (expires 11-30-17).	Spring 2017	Supervisor, Trustees, TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Casey South (Liberty Prairie)

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Grammanoid Fen, Prairie, Retired Agriculture Field, Sedge Meadow, Riparian Corridor, Agriculture Field, Woodland, Hillside Seep, Sedge Meadow, Trail T/E Species: Slender Bog Arrow Grass, Fringed Gentian, Grass of Parnassus	Monitor	Monitor T/E species (provide copy to Township).	Annually	TWP Staff, Conserve Lake County, Volunteers
		Evaluate burn plan and implement prescribed burn in accordance with burn plan.	Annually	
		Check and document boundaries and encroachments. Update encroachment inventory as needed. Develop an encroachment policy.	Every Other Month	TWP Open Space Staff
		Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	
		Tree and shrub screen allowed along property edges to control off-road-vehicle access.	Annually	
		Conduct a vegetative survey.	2017	Contractor
		Monitor trail connection within the nature preserve to nearby Township-owned parcel.	2016	TWP Open Space Staff
	Maintain	Sealcoat boardwalks every two years.	2017	TWP Open Space Staff
		Install equestrian dismount blocks at boardwalks.	2016	
		Provide and maintain limited, appropriate visitor amenities such as: trail, bollards, garbage cans, benches, dog waste receptacles, etc.	Ongoing	
		Maintain INPC signage along boundaries. Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.	Annually	
		Conduct a site survey.	2016	Contractor, TWP Open Space Staff
		Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Annually	TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Restore	Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	Ongoing	TWP Open Space Staff, Volunteers, Conserve Lake County
		As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.	Annually	
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2016	
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	Ongoing	TWP Open Space Staff, Supervisor
		Photograph individual management units during growing season and dormant season.	Annually	TWP Open Space Staff
		Complete and submit INPC annual report.	Annually Feb. 15	TWP Open Space Staff, Supervisor
		Obtain information including but not limited to: volunteer workday results, vegetation monitoring, bluebird monitoring, annual easement monitoring, etc.	Monthly	TWP Open Space Staff
		Obtain information regarding shallow and deep well monitoring.	Ongoing	
	Communication	Continue communications with INPC and LCFPD.	Ongoing	Supervisor, TWP Staff , INPC, LCFPD
		Provide information and outreach to neighboring homeowners, homeowner associations, local horse stables, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross country skiing, horseback riding, etc.	Ongoing	Supervisor, TWP Open Space Staff
	Survey	Conduct a site boundary survey.	2016	Contractor, TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A: Grammanoid Fen T/E Species: Slender Bog Arrow Grass	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: reed canary grass, cattails, purple loostripe, oriental bittersweet and multiflora rose.	Ongoing	TWP Open Space Staff, Volunteers
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
	Monitor	Conduct a vegetative survey of plants of concern, obtain and track results.	Annually	TWP Open Space Staff, Volunteers
B: Prairie Wet prairie, Wet mesic prairie, Mesic Prairie	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Open Space Staff, Conserve Lake County, Volunteers
		Control invasives: reed canary grass, purple loostripe, Canada thistle, grey dogwood and buckthorn, and phragmites.	Annually	
		Collect and interseed in accordance with INPC seed collecting protocol.		TWP Open Space Staff, Volunteers
		Conduct large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2018	Contractor, TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
	Monitor	Monitor plants of concern and document.	Annually	Conserve Lake County, Volunteers
C. Replanted Prairie	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: reed canary grass, purple loostripe, Canada thistle, grey dogwood and buckthorn. Monitor for oriental bittersweet.	Annually	TWP Open Space Staff, Volunteers
D. Sedge Meadow	Restore	Conduct prescribe burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control Invasive: reed canary grass, cattails, and phragmites.	Annually	TWP Staff, Volunteers
		Conduct large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2016	Contractor, TWP Open Space Staff
E. Riparian Corridor	Restore	Control invasives: garlic mustard, reed canary grass, oriental bittersweet, brome, dames rocket, clover, and buckthorn.	Annually	TWP Open Space Staff
		Conduct follow up treatments. Continue to remove cottonwoods.	2016	
		Interseed cleared areas with seed collected on site.	Ongoing	
		Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Conduct large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2018	Contractor, TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
F. Retired Agriculture Field	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: Canada thistle and reed canary grass.	Annually	TWP Open Space Staff
		Interseed in fall after burns with collected seed on site.		TWP Open Space Staff, Conserve Lake County, Volunteers
G. Retired Agriculture Field	Restore	Control reed canary grass, buckthorn, teasel, clover, brome, and dunes rocket.	Annually	TWP Open Space Staff
		Interseed in fall after burns with collected seed on site.		TWP Open Space Staff, Conserve Lake County, Volunteers
		Conduct prescribe burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
	Maintain	Monitor Birdscaping project plantings. Remove fencing and mark plantings as necessary.	Ongoing	TWP Open Space Staff
H. Woodland, Remnant Prairie, Restored Prairie	Restore	Conduct prescribe burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: buckthorn, oriental bittersweet, reed canary grass, and Canada thistle.	Annually	TWP Open Space Staff
		Interseed with collected seed from site.		TWP Open Space Staff, Volunteers
		Continue clearing of invasives working east towards property line.	2016-17	
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
I. Hillside Seep	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: purple loosestrife and cattails.	Annually	TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of woody invasives.	Ongoing	
J. Sedge Meadow	Monitor	Install signage to prevent future damage to site. Control invasives as needed.	Annually	TWP Staff, Volunteers
K. Retired Agriculture Field	Restore	Continue to control invasives.	Annually	TWP Open Space Staff
		Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
L. Bottomland Successional Woods	Monitor	Monitor WMB head cut project. Evaluate implementing the next phase of the multi phase proposal.	2016-2017	Supervisor, TWP Open Space Staff
	Restore	Seek grant opportunities to remove woody species and restore creek corridor.	Ongoing	Supervisor, Conserve Lake County, LCSMC
		Begin restoration clearing as outlined in the SMC plan, Casey Road Land Use Plan, Liberty Prairie Master Plan.	2016-2018	Supervisor, TWP Open Space Staff
M. Impoundment	Monitor	Monitor the need for a dam inspection.	2016	Supervisor, TWP Open Space Staff
	Restore	Conduct prescribed burn in accordance with the burn plan.	Spring 2016	TWP Staff, Conserve Lake County, Volunteers
		Conduct initial clearing of trees and brush.	2020	TWP Open Space Staff
N. Agriculture Field, Access Drive, Stockpile Area, Successional Woodland	Monitor	Fields 4-9 – Remove drainage tiles, erosion control, prepare for seeding, seed. Follow Donneley Grant documentation requirements. Lease expiration (12-31-16).	2016-17	Supervisor, Conserve Lake County, TWP Open Space Staff, Contractor
		Explore opportunities to install additional parking, trail head and trail connection. On 8/9 Team Meeting it was decided to remove	Ongoing	Supervisor, TWP Staff, Trustees
	Restore	Seek grant opportunities to remediate priority erosion issues, as per the Bull Creek/Bull Brook Watershed Plan, Casey Road Land Use Plan, Liberty Prairie Master Plan.	Ongoing	Supervisor, Conserve Lake County, TWP Open Space Staff
O. Retired Pasture	Monitor	Locate and review ingress/egress easement.	Annually	TWP Open Space Staff, Supervisor
		Obtain information related to the deep well monitoring station.	Ongoing	TWP Open Space Staff
	Restore	Continue to control invasives.	Annually	TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of woody invasives.	Ongoing	
		Conduct prescribed burn in accordance with the burn plan.	Spring 2017	TWP Staff, Conserve Lake County, Volunteers
		Install seed, trees, shrubs, and plugs that meet INPC specs as funds become available and when appropriate.	As needed	TWP Open Space Staff
P. Agriculture Field	Monitor	Monitor erosion, native establishment, invasive outbreaks. Mow and control invasives as needed. Follow Donneley Grant documentation requirements.	2016-17	Supervisor, TWP Open Space Staff
	Restore	Seek grant opportunities to remediate priority erosion issues, as per the Bull Creek/Bull Brook Watershed Plan, Casey Road Land Use Plan, Liberty Prairie Master Plan.	Ongoing	Supervisor, Conserve Lake County, TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Kildare

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Bottomland Woods, Wooded Riparian Corridor, Easement	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Make sure rules, and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
	Maintain	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Ongoing	
		Keep drainage free flowing and free of obstructions.	Annually	TWP Open Space Staff, Village of Libertyville
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Explore passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross-country skiing, ice skating rinks, etc.	Ongoing	Supervisor, TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A. Woodland	Monitor	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Every Other Month	TWP Open Space Staff
B. Wooded Riparian Corridor	Monitor	Keep drainage free flowing and free of obstructions. Continue to follow recommendations outlined in the Lake County Storm Water Management plan.	Annually	TWP Open Space Staff
		Seek grant opportunities for restoration. Seek opportunities for volunteer workdays.	Annually	
C. Ingress/ Egress Easement	Monitor	Review and monitor ingress/egress easement.	Annually	Supervisor, TWP Open Space Staff
		Continue to document encroachments, violations, and locate and review agreement for maintenance of mowed park area.	Ongoing	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Lindholm Park

Updated: April, 2016

Map Symbol: Management Unit (List all communities)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Playground, Athletic Fields, Trail, Woodland, Retired Turf	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
		Conduct regular inspections of playground equipment.	Bi-annually	
		Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	
	Maintain	Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, athletic fields, etc.	Seasonally	TWP Open Space Staff
		Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and repair if needed.	Monthly	
		Maintain and mow grass, edge beds and sidewalk edges, trim trees, mulch, pull weeds, etc. in order to provide an aesthetically pleasing view for users and nearby residents.	Seasonally as needed	
		Evaluate the need to herbicide and/or fertilize turf grass.		
	Restore	As funds become available plant native seed, trees and bushes.	Ongoing	TWP Open Space Staff
		Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	2016	
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	
Explore and provide opportunities for volunteers.		Ongoing	TWP Open Space Staff	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Document	Include current and long term management direction into Township site-management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, horseback riding, etc.	Ongoing	Supervisor, TWP Open Space Staff
	Site Survey	Survey property boundaries.	2016	Contractor, TWP Open Space Staff
A: Athletic Fields Infield, Outfield	Maintain (Infield)	Evaluate need for surface conditioners/amendments	Annually	TWP Open Space Staff
		Drag field weekly as weather permits.	Seasonally	
		Hire contractor for major retrofits including adding of clay and conditioner every two years or as needed.	2017	Contractor, TWP Open Space Staff
	Maintain (Outfield)	Herbicide common herbaceous turf weeds including: clover, dandelion, creeping charlie, and chickweed.	Annually	TWP Open Space Staff, Contractor
		Inspect outfield every week during ball season for holes, divots and depressions. Repair or flag immediately and log repairs on inspection form.	Seasonally	
B: Playground	Inspect	Complete inspection, fill out inspection form and repair deficiencies immediately.	April & October	TWP Open Space Staff
	Maintain	Add playground approved woodchips to recommended levels.	As needed	
		Prepare to remove the remaining ash trees and replace with native plant material.	2017-18	TWP Open Space Staff
		Continue to maintain native planting bed.	Ongoing	
		Seal coat sidewalks every two years or as needed.	2017	Contractor

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
B: Playground (continued)	Maintain (continued)	Update playground equipment. Evaluate need for replacement or repairs.	As needed	Supervisor, TWP Open Space Staff
C. Parking Lot	Maintain	Seal coat parking lot every two years.	2017	Supervisor, TWP Open Space Staff
		Install remaining bollard and fencing at LCPW easement road to limit unauthorized vehicular access.	2016	
D. Oak Woodland	Restore	Cut and herbicide invasives including: buckthorn, Canada thistle and reed canary grass.	Ongoing	TWP Open Space Staff
		Prescribe burn in accordance with burn plan.	2016	
		Conduct a follow-up treatment of herbicide to invasives.	2016	
		As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.	Ongoing	
E. Retired Turf	Maintain	Prescribe burn in accordance with burn plan.	Spring 2016	TWP Open Space Staff
		Herbicide invasives: Canada thistle, teasel and buckthorn.	Ongoing	
	Monitor	Evaluate methods for drain tile repair, removal, and remediation.	2016-17	Supervisor, TWP Open Space Staff, LCFPD, SMC, Contractor
		Obtain permits and information from contractor for drain tile removal.	2016-17	
	Communication	Continue conversations with SMC regarding BMP's for overland flow and water drainage.	Ongoing	
		Continue to discuss drainage concerns and issues with LCFPD.	Ongoing	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Milwaukee Avenue

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Restored Short Grass Prairie, Agriculture Field, Wooded Riparian Corridor, Woodland, Retired Pasture, Leased Paddock	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Make sure rules and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	TWP Open Space Staff
		As farm licenses expire continue to evaluate license and restoration opportunities.	Ongoing	Supervisor, Trustees, Advisory Committee, TWP Staff
		Monitor and discuss future maintenance needs and key personnel regarding Milwaukee Road sidewalk.	Ongoing	Supervisor, TWP Open Space Staff
	Maintain	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	TWP Open Space Staff
	Restore	Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	Ongoing	TWP Open Space Staff, Volunteers
		Seek and apply for restoration grants and for volunteer opportunities.	Annually	Supervisor, Conserve Lake County, TWP Open Space Staff
		As funds become available plant native seed, trees and/or shrubs using recommended species and quantities outlined in the INPC guidelines.	Ongoing	TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Restore (continued)	Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	Ongoing	TWP Open Space Staff, Volunteers
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	TWP Open Space Staff
		Coordinate effort to restore in conjunction with LCFPD and Conserve Lake County.	Ongoing	TWP Open Space Staff, LCFPD, Conserve Lake County
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross country skiing, horseback riding, etc.	Ongoing	TWP Open Space Staff
	Site survey and Signage	Survey property boundaries and install permanent marking posts.	2017	Supervisor, Contractor
		Install ownership signs along Milwaukee Avenue.	Fall 2016	TWP Open Space Staff
	A. Restored Short Grass Prairie	Monitor	Conduct a preliminary vegetative survey.	2016
B. Agriculture Field	Review farm license	Review and evaluate license details.	Annually	Supervisor, TWP Open Space Staff
		As farm license expires (12/31/2016), continue to evaluate license and restoration opportunities as per the Casey Road Land Use Plan.	Summer 2016	Supervisor, Trustees, Advisory Committee, TWP Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
C. Wooded Riparian Corridor	Seek grant opportunities	Seek and apply for restoration grants to restore native riparian community.	Ongoing	Supervisor, Conserve Lake County, TWP Open Space Staff
	Monitor	Monitor creek flow and obstructions under Milwaukee Road underpass-box culvert.	Ongoing	TWP Open Space Staff
D. Woodland	Monitor	Explore restoration opportunities through grants and volunteer opportunities.	Ongoing	TWP Open Space Staff
E. Retired Pasture	Restore	Prescribe burn and broadcast native seed to promote native vegetation. Mow and herbicide to reduce invasive plant populations.	Annually	TWP Open Space Staff, Volunteers
F. Leased Paddock	Review farm license	Review and evaluate farm license as license expires (5-31-2017).	Fall 2016	Supervisor, Trustees, TWP Open Space Staff
G. Agriculture Field	Review farm license	Review and evaluate farm license as license expires (2019).	2018	Supervisor, Trustees, TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Old School Road

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Woodland, Lowland Woods, Floodplain	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.		TWP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
		Conduct a follow-up vegetative survey in June.	2016	LCFPD, TWP Open Space Staff
	Maintain	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	TWP Open Space Staff
		Remove debris from creek to allow water to remain free flowing. Continue to follow recommendations outlined in the Lake County storm water management plan.	Seasonally	
		Stabilize stream banks to prevent undercutting.	2016-2017	
	Restore	Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	Annually	TWP Open Space Staff, Volunteers
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.		

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Restore (continued)	Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	TWP Open Space Staff
		Continue initial clearing of invasive plants. Cut and herbicide.	Ongoing	TWP Open Space Staff, Volunteers
		Conduct follow-up control of invasives.	2016	
		Seek and apply for restoration grants.	Annually	Supervisor, TWP Open Space Staff, Conserve Lake County
	Document	Include current and long term management direction into Township site-management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
		Continue communications with the INPC for possible dedication as a Nature Preserve or a Land and Water Reserve.	2016	
	Recreation	Provide passive recreational opportunities when possible.	Ongoing	TWP Open Space Staff
	A. Woodland	Restore	Continue to thin woodland to a lower stocking percentage by removing sugar maple, box elder, black cherry, trees with poor form or are in decline, and created group openings; all to allow for more light to penetrate forest floor. Remove invasive plants.	2016
Prescribe burn in dormancy.			Fall 2016	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
B. Lowland Woods	Restore	Continue to thin woodland to a lower stocking percentage by removing sugar maple, box elder, black cherry, trees with poor form or are in decline, and created group openings; all to allow for more light to penetrate floor. Remove invasive plants.	Ongoing	TWP Open Space Staff
		Prescribe burn in dormancy.	Fall 2016	
C. Floodplain	Restore	Continue to thin woodland to a lower stocking percentage by removing sugar maple, box elder, black cherry, trees with poor form or are in decline, and created group openings; all to allow for more light to penetrate floor. Remove invasive plants.	Ongoing	TWP Open Space Staff
		Prescribe burn in dormancy.	Fall 2016	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: River Road

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Easements, Paddocks, Agriculture Field, Woodland, Wetland, Trail	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Make sure rules and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff
		Review and monitor easements. Complete easement monitoring log-sheet.	Annually	
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
		As farm license expires (2019), review and evaluate farm license details and options.	Winter 2018	Supervisor, TWP Open Space Staff
	Maintain	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	TWP Open Space Staff
		Provide and maintain trail amenities including but not limited to: the trail, bollards, trailhead fencing, Knox boxes, benches, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, etc.	Ongoing	
		Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	
		Evaluate and sealcoat asphalt trailheads every two years.	2017	
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Document (continued)	Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, horseback riding, etc.	Ongoing	TWP Open Space Staff
	Site survey	Survey property boundary and install permanent marking posts.	2020	Supervisor, Surveyor, TWP Staff
A. Getz Easements	Monitor easements	Review and monitor easements. Complete easement monitoring log sheet.	Annually	TWP Open Space Staff, Easement monitor
		Getz One	2016	
		Getz Two	2016	
	Getz Three	2016		
Land Swap	Update mapping, management units, building demolition and homesite restoration.	2016		
B. Agriculture Field	Review farm license	As farm license expires (2019), review and evaluate farm license details and options.	Winter 2018	Supervisor, TWP Open Space Staff
	Restore	Explore possibilities of restoration and volunteer opportunities.	Ongoing	
		Whenever possible create habitat for wildlife.	Ongoing	TWP Open Space Staff
	Explore possibility of paddock fence removal.	2019	Supervisor, TWP Open Space Staff	
Maintain	Mow unleased portion of hay field as needed to prevent weed growth and woody establishment.	2016-17	TWP Oen Space Staff	
C. Woodland	Restore	Explore possibilities of restoration.	2016-17	Supervisor, TWP Open Space Staff, Volunteers
D. Wetland	Restore	Explore possibilities of restoration.	Ongoing	Supervisor, TWP Open Space Staff, Volunteers
E. Paddocks	Monitor easement	Review and monitor easement. Complete easement monitoring log sheet.	Annually	TWP Open Space Staff, Easement monitor

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
F. Retired Hay Field	Restore	Prescribe burn and broadcast native seed to promote native vegetation. Mow and herbicide to reduce invasive plant populations.	Annually	TWP Open Space Staff
G. Former Homesite and Agriculture Field	Monitor	Monitor building and grounds for unauthorized access.	Ongoing	TWP Open Space Staff, Supervisor
	Restore	Contract for demolition and restoration of homestead.	2016-17	Supervisor, Trustees
	Maintain	Mow hay field as needed to prevent weed growth and woody establishment.	2016	TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Rt. 45

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Abandoned Nursery, Bott Prairie, Bott Easement	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Make sure rules and ownership signs are in place to ensure visitor safety.		TWP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
	Maintain	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	
	Restore	Seek opportunities for restoration through grant funding, offsite mitigation, Route 53 funding, etc.	Ongoing	Supervisor, TWP Open Space Staff
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner association's, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Provide passive recreational opportunities when possible.	Ongoing	Supervisor, TWP Open Space Staff
Site survey	Survey property boundary and install permanent marking posts	2020	Supervisor, Surveyor	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A. Bott Prairie	Restore	Follow up control of invasives such as buckthorn, thistle, teasel, reed-canary grass, etc.	Annually	TWP Open Space Staff, Supervisor
		Implement burn plan in conjunction with easement holder.	Annually until 2018	TWP Open Space Staff, Supervisor, Easement Holder
		Collect and sow seed on site.	Annually	TWP Open Space Staff
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	
		Explore opportunities for an Illinois Nature Preserve dedication.	Ongoing	Supervisor, INPC, TWP Staff
		Explore opportunities to conduct a vegetative survey in May, June, or July.	2017	LCFPD, TWP Open Space Staff
		Explore volunteer opportunities	Contact Liberty Prairie Homeowners Association.	Annually
B. Abandoned Nursery	Restore	Explore grant opportunities for site restoration.	Ongoing	Supervisor
		Explore alternative land use options and restoration methods including grazing, agroforestry, etc.	Ongoing	Supervisor, TWP Open Space Staff, LP Foundation
C. Bott Easement	Communication	Stay in contact with easement holder and contractor for opportunities with restoration and cohesive management.	Annually	TWP Open Space Staff, Supervisor, Easement Holder
	Monitor	Review and monitor easement. Complete easement monitoring log-sheet.	2016	TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Rt. 137

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Agriculture Fields, Wetland, Wet	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Make sure rules, and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
		Monitor and document trail construction.	Daily 2016	TWP Open Space Staff
	Maintain	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	TWP Open Space Staff
		Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, etc.	Ongoing	
		Evaluate and sealcoat asphalt trail sections every two years.	2018	
	Restore	Explore mitigation possibilities. Stay in contact with mitigation contractors to restore old nursery property.	Annually	Supervisor, TWP Open Space Staff
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff
Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).		Ongoing	TWP Open Space Staff	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, horseback riding, etc.	Ongoing	TWP Open Space Staff
	Site survey	Survey property boundary and install permanent marking posts.	2016	Supervisor, Surveyor, TWP Staff
	Bull Creek Trail	Monitor trail post construction.	2017	TWP Open Space Staff
		Install native seed and planting material using secured grant funds. Conduct a volunteer workday.	2016	TWP Open Space Staff, Volunteers, LC Audubon
		Install signage, garbage cans, doggie bags, fencing, boardwalk riprap, etc.	2016-17	TWP Open Space Staff
		Sealcoat boardwalk.	As needed	TWP Open Space Staff
		Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	
		Review and evaluate Comed lease details. Expiration (7-31-2035).	Winter 2035	Supervisor, TWP Staff
A. Agriculture field	Review farm license	Review and evaluate license details. Evaluate restoration opportunities as license expires (10-31-16).	Spring 2016	Supervisor, TWP Open Space Staff
	Restore	Explore mitigation bank possibilities. Stay in contact with mitigation banker to restore agricultural lands, woodlands, and old nursery.	Annually	Supervisor, TWP Open Space Staff
B. Wetland	Maintain	Keep drainage free flowing and free of obstructions.	Annually	TWP Open Space Staff
		Investigate the potential for creek bed restoration and stabilization.	2016	Supervisor, TWP Staff
	Restore	Re-introduce pre-settlement fire regime. Implement and evaluate burn plan. Install fire breaks.	2017-18	TWP Open Space Staff, Contractor
		Begin restoration using applied and received grant funds.	2016-17	
		Control wetland invasives such as phragmites, reed canary grass, purple loosestrife.	2016-2017	
		Conduct a large scale herbicide project focusing on phragmites, purple loosestrife and reed canary grass.	2016-2017	
Distribute large scale herbicide RFQ's.	Summer 2016	Supervisor, TWP Open Space Staff		
C. Woodlands	Restore	Explore restoration opportunities. Begin initial clearing.	Annually	Supervisor, TWP Open Space Staff
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan. Install fire breaks.	2017-18	TWP Open Space Staff, Contractor

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
D. Wet Prairie Remnant	Restore	Seek opportunities for restoration and volunteer opportunities.	Annually	TWP Open Space Staff
		Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan. Install fire breaks.	2017-18	TWP Open Space Staff, Contractor
E. Abandoned Nursery	Restore	Seek opportunities for restoration and volunteer opportunities.	Annually	TWP Open Space Staff
		Begin initial clearing and herbiciding of invasive trees adjacent to trail corridor.	2016-2017	
		Explore restoration and mitigation possibilities. Stay in contact with mitigation contractors to restore old nursery property.	Ongoing	Supervisor, TWP Open Space Staff
	Follow up treatments	Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: St. Mary's Road

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Oak woodland, Prairie, Dry basin, Trail, Maxey easement	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
		Conduct a vegetative survey on units previously cleared.	2018	TWP Open Space Staff, LCFPD
	Maintain	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	TWP Open Space Staff
		Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, etc.	Ongoing	
		Evaluate and sealcoat asphalt trailheads every two years.	2017	
		Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	
	Restore	Maintain and mow grass, edge beds and sidewalk edges, trim trees, mulch, pull weeds, etc. in order to provide an aesthetically pleasing view for users and nearby residents.	Seasonally as needed	TWP Open Space Staff
Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.		Ongoing	TWP Open Space Staff, Volunteers	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Restore (continued)	Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	Ongoing	TWP Open Space Staff, Volunteers
		As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.	Ongoing	
		Whenever possible create and improve habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	TWP Open Space Staff, Supervisor
		Photograph parcel when possible during various seasons and during different phases of a given project (before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	TWP Open Space Staff, Supervisor, Conserve Lake County
Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, horseback riding, etc.	Ongoing	TWP Open Space Staff, Supervisor	
A: Woodlot Oak-Hickory woods, Oak savanna	Restore	Conduct follow up treatments to previously cleared area. Control invasives using herbicide.	Annually	TWP Open Space Staff
		Prescribe burn in accordance with burn plan.	2016	TWP Staff, Volunteers
	Maintenance	Keep drainage ditches free flowing and free of obstructions. Continue to follow recommendations outlined in the Lake County Storm Water Management plan. Seek grant opportunities for restoration especially the WMB grant.	As needed	TWP Open Space Staff, Supervisor
B. Prairie Short grass prairie, Dry Basins	Interseed	Interseed with short grass prairie mix.	As needed	TWP Open Space Staff
	Restore	Prescribe burn in accordance with burn plan.	2016	TWP Staff, Volunteers
		Prevent woody species from colonizing dry basin berms by mowing and herbiciding.	Annually	TWP Open Space Staff
	Monitor	During/after rain events check dry basins to ensure they are fully functional.	As needed	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
C. Savanna, prairie	Restore	Continue clearing and removal of invasives in remainder of unit. Plant cover crop while treating invasives and re-sprouts.	2020	TWP Open Space Staff
		Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	
		When invasives are under control, plant appropriate short grass prairie species and additional tree plantings.	As needed	
		Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	2017	TWP Staff, Volunteers
D. Maxey Easement	Monitor	Review and monitor easement. Complete easement monitoring log sheet.	2016	TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Township Campus

Updated: April, 2016

Map Symbol: Management Unit (List all communities)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Park, Footpath, Mowed lots, Parking lots, Office buildings, Picnic area, Sidewalks	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Make sure all signs are in place to ensure visitor safety and convenience.	Monthly	TWP Open Space Staff
		Monitor footpath surface and repair as needed.	Weekly	
		Monitor construction being done whether it be street widening or other aspects and ensure replacement of any tree removed.		
	Maintain	Maintain buildings as needed following maintenance guidelines.	Ongoing	Buildings and Grounds Manager
		Provide and maintain amenities including but not limited to: the footpath, sidewalks, benches, picnic tables, trash cans, dog waste centers, lighting, flagpole, brick paver sidewalk, etc.	Ongoing	
		Conduct visual inspections buildings and grounds especially after storm events. Make necessary repairs or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	
		Mow grass, edge beds and sidewalk edges, pull and herbicide weeds, etc. in order to provide an aesthetically pleasing view and safe experience for users and nearby residents.	Weekly	
		Add mulch to planting beds, herbicide turf broadleaf weeds, aerate turf, spring and fall leaf clean up, as necessary.	Seasonally	
	Sealcoat parking lots every two years.	2016	Buildings and Grounds Manager, Township Open Space Staff	
	Keep sidewalks and parking lots free from snow, ice, and debris to ensure they are safe for users and aesthetically pleasing.	Daily		
	Trim trees in dormancy when possible. Promptly remove dead and dying trees to ensure visitor safety. When replacing trees use native selections. Consider the use of treatments to prevent insect and disease damage.	Seasonally		

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: (continued)	Document	Include current and long term management direction into Township site management plans, documentation, and all other pertinent information.	Annually	Buildings and Grounds Manager, Open Space Staff, Supervisor
		Develop and update building maintenance log and guidelines. Log salt and herbicide use for MS4 report.	Ongoing	
		Photograph parcel when possible during various seasons and during different phases of a given project (before and after).		
		Ensure proper permitting for tree removals.		
	Communication	Provide information and outreach to neighboring homeowners and the public of management direction, upcoming projects, and rules of Township Campus.	Ongoing	Buildings and Grounds Manager, Supervisor
		Ensure there is no overnight parking by installing signs and outreach.		
Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, picnicking, etc.	Ongoing	Buildings and Grounds Manager	
A: Park, Mowed lot, Footpath, Picnic area, Sidewalks	Maintain Open Park Appearance	Remove dead and dying trees. Thin trees to a lower stocking percentage allowing light to penetrate the ground for better turf establishment. Increase the size of the area for recreation.	Seasonally- Winter	Open Space Staff, Buildings and Grounds Manager
		Strategically plant more diverse and native species for replacement, while keeping in mind an open park appearance.	As needed	
	Maintain Footpath	Add screenings and roll footpath to provide a safe means of travel. Herbicide footpath edges to prevent weeds from growing into path.	2016	Buildings and Grounds Manager
	Maintain Visitor Amenities	Sand, paint and seal picnic tables and benches.	2016	
	Maintain Road Frontage Appearance	Maintain sign along Winchester road. Prune trees and shrubs to allow for clear view of signage and beautify nearby landscaping.	2016	
B. Township offices and grounds, Sidewalks, Parking lot	Maintain Building	Maintain buildings as needed following maintenance guidelines.	Ongoing	Buildings and Grounds Manager
		Remove dead and dying trees. Strategically plant more diverse and native species for replacement. Add mulch to planting beds, pull and herbicide weeds, and water plants when necessary.	Ongoing	Open Space Staff, Buildings and Grounds Manager

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
C. Parking lot and grounds, Sidewalks, Mowed lot	Maintain Landscaping	Remove dead and dying trees. Strategically plant more diverse and native species for replacement. Add mulch to planting beds, pull and herbicide weeds, and water plants when necessary.	Ongoing	Open Space Staff, Buildings and Grounds Manager
	Maintain Lighting	Ensure parking lot lighting is functional for user safety.	Weekly	Buildings and Grounds Manager
D. Parks building and grounds, Parking lot, Mowed lot, Park, Sidewalks	Maintain Landscaping	Remove dead and dying trees. Strategically plant more diverse and native species for replacement. Add mulch to planting beds, pull and herbicide weeds, and water plants when necessary.	Ongoing	Buildings and Grounds Manager, Open Space Staff
	Maintain Building	Maintain buildings as needed following maintenance guidelines.	Ongoing	
	Maintain Lighting	Ensure parking lot lighting is functional for user safety.	Weekly	Buildings and Grounds Manager
	Maintain Fencing	Inspect and repair fencing as necessary.	Annually	
	Maintain Drainage Ways	Keep all drainage ways clear of debris and guarantee positive flow.	Monthly	
	Sealcoat Parking Lot	Sealcoat in conjunction with other Township campus parking lots.	2016	Buildings and Grounds Manager, Contractor

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Winchester Road (Soccer Complex)

Updated: April, 2016

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Sports Complex, Athletic Fields, Riparian Corridor	Monitor	Ensure that the license agreement is being followed and board approved. Guarantee access to property (receive gate code).	Monthly	TWP Open Space Staff
		Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		Conduct regular site inspections and document current conditions in the inspection log.	Monthly	TWP Open Space Staff
		Attend annual LTSC meetings.	Annually	Supervisor
		Monitor and discuss future maintenance needs and key personnel regarding Technology Way.	Ongoing	Supervisor, TWP Open Space Staff
	Maintain	Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	TWP Open Space Staff
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, LTSC
	Site Survey	Finish surveying the North and West property boundaries.	2018	Supervisor, Contractor

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A. Soccer Complex and Athletic Fields	Monitor	Review and evaluate license documentation (expires 2043).	Annually	Supervisor
		Conduct regular site visits and document artificial turf construction.	2016	Supervisor, TWP Open Space Staff
B. Riparian Corridor	Monitor	Check creek for obstructions. Keep drainage free flowing and free of obstructions.	Annually	TWP Open Space Staff