

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Atkinson Road

Updated: April, 2017

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	Contactor, 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	
	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, Trail	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, Trail	Monitor	Monitor current mitigation bank work in progress.	2017-2020	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.	2018

Site Management Plan

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Site Name: Butterfield Road (Canterbury)

Updated: April, 2017

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 Channel	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	
		Complete baseline tree inventory for unit "A".	2017	
		Maintain agreement # 2761799 between Canterbury Homeowners Association and Township regarding tree planting and maintenance requirements for management unit "A".	Ongoing	
		Conduct a vegetative survey.	2018	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
		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.	2018	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, 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
		Conduct broadleaf herbicide treatments to all mowed out lots.	Annually	Contractor, TWP Open Space Staff
		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 2018	TWP Open Space Staff, Contractor
		Enhance and encourage short grass prairie.	Annually	
		Conduct follow-up treatments to invasive plants.	2017	
		Inter-seed in herbicided and burned areas with native short grass prairie species, plant trees and shrubs as funding becomes available.	2017	
	Maintain	Trim and prune planted trees. Remove dead ash trees.	2017-18	
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.	2017-20	
		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.	2017	
		Evaluate need for large scale herbicide project to control wetland invasives such as phragmites and reed canary grass. If needed prepare bid documentation.	2020	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.	2017	TWP Open Space Staff
		Evaluate footpath usage and possible improvements.	Ongoing	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.	2020	Contractor, TWP Open Space Staff
	Maintain	Continue initial clearing and herbiciding of invasive trees.	2017-20	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 including Oak Openings Buffer, Almond Marsh Buffer

Updated: April, 2017

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Preserve: Retired Agriculture Field,	Monitor	Conduct a vegetative survey.	2019	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.	2017	TWP Open Space Staff, Supervisor, Engineer
	Maintain	Provide and maintain limited, appropriate visitor amenities such as: trail, bollards, parking lot, portable toilet, picnic table, garbage cans, kiosk, 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.	2017	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Preserve (continued)	Maintain cont.	Install "no snowmobile" signage seasonally to discourage snowmobile usage.	Annually in Fall	TWP Open Space Staff
	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. Continue Phase 1 restoration.	Ongoing	TWP Open Space Staff, Supervisor, Conserve Lake County
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2017	TWP Open Space Staff, Volunteers, Conserve Lake County
		Document	Photograph individual management units during growing season and dormant season.	Annually
	Complete and submit INPC annual reports (Oak Openings Buffer, Almond Marsh Buffer).		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.		Annually	
	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

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A. Retired Agriculture Field (Oak Openings Buffer)	Restore	Control invasives: reed canary grass, Canada thistle, and clover.	Annually	TWP Open Space Staff, Volunteers
		Prescribe burn in accordance with burn plan.	2017	
B. Riparian Corridor (Oak Openings Buffer)	Maintain	Continue initial clearing of the creek corridor removing invasive species.	Winter 2017-18	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 2017	TWP Open Space Staff, Volunteers
		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	
		Monitor erosion of creek banks and gullies and take appropriate action when needed.	Ongoing	
C. Retired Agriculture Field (Oak Openings Buffer)	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.	2017	TWP Staff, Conserve Lake County, Volunteers
D. Mesic Oak Woodland (Oak Openings Buffer)	Restore	Continue initial clearing removing buckthorn, honeysuckle and Japanese barberry.	Winter 2017-18	TWP Open Space Staff, Volunteers
		Prescribe burn in accordance with burn plan.	2018-19	TWP Staff, Conserve Lake County, Volunteers
E. Mesic Oak Woodland (Oak Openings Buffer)	Restore	Prescribe burn in accordance with burn plan.	2017	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
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
E. Mesic Oak Woodland (Oak Openings Buffer) cont.	Maintain	Maintain Almond Marsh footpath and trail markers, spread woodchips as needed on Township portion. Continue communication with LCFPD regarding removal of their portion.	Annually	TWP Open Space Staff, Volunteers
F. Savanna (Oak Openings Buffer)	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.	2017	
G. Retired Agriculture Field, Walnut Grove (Almond Marsh Buffer)	Restore	Control invasives: Canada thistle, reed canary grass, multiflora rose and brome.	Annually	TWP Open Space Staff
		Prescribe burn in accordance with burn plan.	2017	TWP Staff, Volunteers, Conserve Lake County
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	TWP Open Space Staff
H. Ketting Wetland (Almond Marsh Buffer)	Restore	Control invasives: reed canary grass, phragmites, and Canada thistle.	Ongoing	TWP Open Space Staff
		Prescribe burn in accordance with burn plan.	2017	TWP Staff, Volunteers, Conserve Lake County
		Conduct a large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2017	Contractor, TWP Open Space Staff
I. Agriculture Field	Monitor	As farm license expires (12-31-2017), continue to review license and explore restoration opportunities outlined in the Board approved Casey Road Land Use Plan.	Summer 2017	Supervisor, Trustees, 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
J. Baxter Grove (Oak Openings Buffer)	Monitor	Review and evaluate farm license (expires 11-30-17).	Spring 2017	Supervisor, Trustees, TWP Open Space Staff
K & L. Retired Agricultural Fields (Almond Marsh Buffer)	Monitor	Monitor steep slopes and erosion prone areas until vegetation becomes established. Take action as necessary.	2017-19	TWP Open Space Staff
		Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2017-21	TWP Open Space Staff, Volunteers

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
K & L. Retired Agricultural Fields (Almond Marsh Buffer) cont.	Monitor cont.	Monitor for invasive outbreaks. Follow C.R.R. Phase 1 Management Schedule. Take action as necessary	2017-21	TWP Open Space Staff, Volunteers
		Conduct seed establishment monitoring following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff, Conserve Lake County, Volunteers
	Document	Follow grant documentation requirements.	2017-18	Supervisor, TWP Open Space Staff, Conserve Lake County
	Maintain	Install and maintain boundary signage: carsonite survey markers, Open Space signage and INPC signage.	2017	TWP Open Space Staff
	Restore	Prepare site for seeding: field stone pickup	2017	
		Sow native seed and cover crop as outlined by the LCFPD.	Spring 2017	
		Sow native seed as outlined by the LCFPD.	Fall 2017	
	Restore	Mow as needed following C.R.R. Phase 1 Management Schedule.	2017-20	TWP Open Space Staff, Contractor
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans following C.R.R. Phase 1 Management Plan.	2020-21	
		Interseed as needed following C.R.R. Phase 1 Management Schedule.	2021	
L. Retired Agricultural Fields (Almond Marsh Buffer)	Monitor	Monitor steep slopes and erosion prone areas until vegetation becomes established. Take action as necessary.	2017-19	TWP Open Space Staff
		Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2017-21	TWP Open Space Staff, Volunteers
	Monitor cont.	Monitor for invasive outbreaks. Follow C.R.R. Phase 1 Management Schedule. Take action as necessary	2017-21	TWP Open Space Staff, Volunteers
		Conduct seed establishment monitoring following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff, Conserve Lake County, Volunteers
	Document	Follow grant documentation requirements.	2017-18	Supervisor, TWP Open Space Staff, Conserve Lake County
	Maintain	Install and maintain boundary signage: carsonite survey markers, Open Space signage and INPC signage.	2017	TWP Open Space Staff
	Restore	Prepare site for seeding: field stone pickup	2017	
		Sow native seed and cover crop as outlined by the LCFPD.	Spring 2017	
		Sow native seed as outlined by the LCFPD.	Fall 2017	
	Map Symbol: Management Unit	Management Objective	Management Activity	Schedule

L. Retired Agricultural Fields (Almond Marsh Buffer)	Restore cont.	Mow as needed following C.R.R. Phase 1 Management Schedule.	2017-20	TWP Open Space Staff
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans following C.R.R. Phase 1 Management Plan.	2020-21	TWP Open Space Staff, Contractor
		Interseed as needed following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff
M. Agriculture Field	Monitor	As farm license expires (12-31-2017), continue to review license and explore restoration opportunities outlined in the Board approved Casey Road Land Use Plan.	Summer 2017	Supervisor, Trustees, 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
	Communication	Continue communications with Hey and Associates (mitigation) restoration possibilities.	Ongoing	
N. Agriculture Field	Monitor	As farm license expires (12-31-2017), continue to review license and explore restoration opportunities outlined in the Board approved Casey Road Land Use Plan.	Summer 2017	Supervisor, Trustees, 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
		Continue assessment of mitigation bank feasibility.	Ongoing	
O. Agriculture Field	Monitor	As farm license expires (12-31-2017), continue to review license and explore restoration opportunities outlined in the Board approved Casey Road Land Use Plan.	Summer 2017	Supervisor, Trustees, TWP Open Space Staff
		Review inholding ingress and egress easement (driveway).	2017	Supervisor, TWP Open Space Staff
Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
O. Agriculture Field	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

	Continue communications with SMC (319) regarding restoration possibilities.	Ongoing
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Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Casey South (Liberty Prairie Nature Preserve and Buffer)

Updated: April, 2017

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Graminoid Fen, Prairie, Retired Agriculture Fields, Sedge Meadow, Riparian Corridor, Woodland, Hillside Seep, Sedge Meadow, Trail T/E Species: Slender Bog Arrow Grass, Fringed Gentian, Grass of Parnassus	Monitor	Obtain T/E species monitoring results from Conserve. Slender Bog Arrow Grass, Fringed Gentian, Grass of Parnassus.	Annually	TWP Open Space 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.	2019	Contractor
	Maintain	Sealcoat boardwalks every two years.	2017	TWP Open Space Staff
		Install equestrian dismount blocks at boardwalks.	2017	
		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	
		Ensure carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Annually	

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.	2017	
	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, Conserve Lake County, Volunteers
		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

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A: Graminoid Fen	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2017	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: reed canary grass, cattails, purple loosestrife, 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, Conserve Lake County, Volunteers
B: Prairie Wet prairie, Wet mesic prairie, Mesic Prairie	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2017	TWP Open Space Staff, Conserve Lake County, Volunteers
		Control invasives: reed canary grass, purple loosestrife, 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, cattails and reed canary grass.	2018	Contractor, TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	TWP Open Space Staff
	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 2017	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: reed canary grass, purple loosestrife, 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 2017	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, cattails and reed canary grass.	2018	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.	2017	
		Interseed cleared areas with seed collected on site.	Ongoing	

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F. Retired Agriculture Field	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2017	TWP Staff, Conserve Lake County, Volunteers
		Conduct large scale herbicide project to control wetland invasives such as phragmites, cattails and reed canary grass.	2018	Contractor, TWP Open Space Staff
		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 dames 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 2017	TWP Staff, Conserve Lake County, Volunteers
	Maintain	Monitor Birdscaping project plantings. Remove fencing and mark plantings as necessary.	2017	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.	2017-18	
		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, cattails, willow.	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 Open Space Staff, Volunteers

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
K. Retired Agriculture Field	Restore	Continue to control invasives.	Annually	TWP Open Space Staff
		Conduct prescribed burn in accordance with the burn plan.	Fall 2017	TWP Staff, Conserve Lake County, Volunteers
		Begin clearing of invasives along northern property line hedgerow.	2017-20	TWP Open Space Staff
L. Bottomland Successional Woods (2017 Liberty Prairie Buffer Addition)	Monitor	Monitor WMB head cut project. Evaluate implementing the next phase of the multi phase proposal.	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.	2017-18	Supervisor, TWP Open Space Staff
M. Impoundment (2017 Liberty Prairie Buffer Addition)	Monitor	Monitor the need for a dam inspection.	2017	Supervisor, TWP Open Space
	Restore	Conduct prescribed burn in accordance with the burn plan.	Spring 2017	TWP Staff, Conserve Lake County, Volunteers
		Conduct initial clearing of trees and brush.	2017-20	TWP Open Space Staff
		Perform follow up treatments to areas previously cleared of invasives.	Ongoing	
		Control invasives: reed canary grass.	2017	
N. Retired Agriculture Fields, Access Drive, Stockpile Area (2017 Liberty Prairie Buffer Addition)	Monitor	Monitor erosion prone areas and drain tile removal scar until vegetation becomes established. Take action as necessary.	2017-19	TWP Open Space Staff
		Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2017-21	TWP Open Space Staff, Volunteers
		Monitor for invasive outbreaks. Follow C.R.R. Phase 1 Management Schedule.	2017-21	TWP Open Space Staff, Volunteers
		Conduct seed establishment monitoring following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff, Conserve Lake County, Volunteers
	Document	Follow grant documentation requirements.	2017-18	Supervisor, TWP Open Space Staff, Conserve Lake County
		Obtain volunteer species (frog, bird, butterfly) monitoring results from Conserve Lake County. Post results to website.	Annually	TWP Open Space Staff, Conserve Lake County
	Maintain	Install and maintain boundary signage: carsonite survey markers, Open Space signage and INPC signage.	2017	TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
N. Retired Agriculture Fields, Access Drive, Stockpile Area (2017 Liberty Prairie Buffer Addition) cont.	Restore	Prepare site for seeding; field stone pickup	2017	TWP Open Space Staff
		Sow native seed and cover crop as outlined by the LCFPD.	Spring 2017	
		Sow native seed as outlined by the LCFPD.	Fall 2017	
		Mow as needed following C.R.R. Phase 1 Management Schedule.	2017-20	
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans following C.R.R. Phase 1 Management Plan.	2020-21	TWP Open Space Staff, Contractor
		Continue with initial clearing of edges and road frontages.	2017-20	TWP Open Space Staff
		Perform follow up treatments to areas previously cleared of invasives. Stump grind within cleared areas.	2017	TWP Open Space Staff
Interseed as needed following C.R.R. Phase 1 Management Schedule.	2021			
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. Retired Agricultural Field (2017 Liberty Prairie Buffer Addition)	Monitor	Monitor steep slopes and erosion prone areas until vegetation becomes established. Take action as necessary.	2017-19	TWP Open Space Staff
		Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2017-21	TWP Open Space Staff, Volunteers
		Monitor for invasive outbreaks. Follow C.R.R. Phase 1 Management Schedule.	2017-21	TWP Open Space Staff, Volunteers
		Conduct seed establishment monitoring following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff, Conserve Lake County, Volunteers
	Document	Follow grant documentation requirements.	2017-18	Supervisor, TWP Open Space Staff, Conserve Lake County
		Obtain volunteer species (frog, bird, butterfly) monitoring results from Conserve Lake County. Post results to website.	Annually	TWP Open Space Staff, Conserve Lake County

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
P. Retired Agricultural Field (2017 Liberty Prairie Buffer Addition) cont.	Maintain	Install and maintain boundary signage: carsonite survey markers, Open Space signage and INPC signage.	2017	TWP Open Space Staff
	Restore	Prepare site for seeding: field stone pickup	2017	
		Sow native seed and cover crop as outlined by the LCFPD.	Spring 2017	
		Sow native seed as outlined by the LCFPD.	Fall 2017	
		Mow as needed following C.R.R. Phase 1 Management Schedule.	2017-20	
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans following C.R.R. Phase 1 Management Plan.	2020-21	
Interseed as needed following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff		
Q. Retired Agricultural Field & Cleared Hedgerow (2017 Liberty Prairie Buffer Addition)	Monitor	Monitor steep slopes and erosion prone areas until vegetation becomes established. Take action as necessary.	2017-19	TWP Open Space Staff
		Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2017-21	TWP Open Space Staff, Volunteers
		Monitor for invasive outbreaks. Follow C.R.R. Phase 1 Management Schedule.	2017-21	TWP Open Space Staff, Volunteers
		Conduct seed establishment monitoring following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff, Conserve Lake County, Volunteers
	Document	Follow grant documentation requirements.	2017-18	Supervisor, TWP Open Space Staff, Conserve Lake County
		Obtain volunteer species (frog, bird, butterfly) monitoring results from Conserve Lake County. Post results to website.	Annually	TWP Open Space Staff, Conserve Lake County
	Maintain	Install and maintain boundary signage: carsonite survey markers, Open Space signage and INPC signage.	2017	TWP Open Space Staff
	Restore	Prepare site for seeding: field stone pickup, hedgerow removal.	2017	
		Sow native seed and cover crop as outlined by the LCFPD.	Spring 2017	
		Sow native seed as outlined by the LCFPD.	Fall 2017	
	Mow as needed following C.R.R. Phase 1 Management Schedule.	2017-20		

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Q. Retired Agricultural Field & Cleared Hedgerow (2017 Liberty Prairie Buffer Addition) cont.	Restore cont.	Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans following C.R.R. Phase 1 Management Plan.	2020-21	TWP Open Space Staff, Contractor
		Interseed as needed following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff
		Remove fieldstones and stump grind within hedgerow scar. Herbicide resprouts.	2017-18	
R. Retired Agricultural Field & Cleared Hedgerow (2017 Liberty Prairie Buffer Addition)	Monitor	Monitor steep slopes and erosion prone areas until vegetation becomes established. Take action as necessary.	2017-19	TWP Open Space Staff
		Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2017-21	TWP Open Space Staff, Volunteers
		Monitor for invasive outbreaks. Follow C.R.R. Phase 1 Management Schedule.	2017-21	TWP Open Space Staff, Volunteers
		Conduct seed establishment monitoring following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff, Conserve Lake County, Volunteers
	Document	Follow grant documentation requirements.	2017-18	Supervisor, TWP Open Space Staff, Conserve Lake County
		Obtain volunteer species (frog, bird, butterfly) monitoring results from Conserve Lake County. Post results to website.	Annually	TWP Open Space Staff, Conserve Lake County
	Maintain	Install and maintain boundary signage: carsonite survey markers, Open Space signage and INPC signage.	2017	TWP Open Space Staff
	Restore	Prepare site for seeding: field stone pickup, hedgerow removal.	2017	
		Sow native seed and cover crop as outlined by the LCFPD.	Spring 2017	
		Sow native seed as outlined by the LCFPD.	Fall 2017	
		Mow as needed following C.R.R. Phase 1 Management Schedule.	2017-20	
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans following C.R.R. Phase 1 Management Plan.	2020-21	TWP Open Space Staff, Contractor
		Interseed as needed following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff
		Remove fieldstones and stump grind within hedgerow scar. Herbicide resprouts.	2017-18	
	Map Symbol: Management Unit	Management Objective	Management Activity	Schedule

S. Retired Agricultural Field (2017 Liberty Prairie Buffer Addition)	Monitor	Monitor erosion prone areas and drain tile removal scar until vegetation becomes established. Take action as necessary.	2017-19	TWP Open Space Staff
		Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2017-21	TWP Open Space Staff, Volunteers
		Monitor for invasive outbreaks. Follow C.R.R. Phase 1 Management Schedule.	2017-21	
		Conduct seed establishment monitoring following C.R.R. Phase 1 Management Schedule.	2021	TWP Open Space Staff, Conserve Lake County, Volunteers
	Document	Follow grant documentation requirements.	2017-18	Supervisor, TWP Open Space Staff, Conserve Lake County
		Obtain volunteer species (frog, bird, butterfly) monitoring results from Conserve Lake County. Post results to website.	Annually	TWP Open Space Staff, Conserve Lake County
	Maintain	Install and maintain boundary signage: carsonite survey markers, Open Space signage and INPC signage.	2017	TWP Open Space Staff
	Restore	Prepare site for seeding: field stone pickup	2017	
		Sow native seed and cover crop as outlined by the LCFPD.	Spring 2017	
		Sow native seed as outlined by the LCFPD.	Fall 2017	
		Mow as needed following C.R.R. Phase 1 Management Schedule.	2017-20	
	Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans following C.R.R. Phase 1 Management Plan.	2020-21	TWP Open Space Staff, Contractor	
	Begin clearing of TWP portion of East hedgerow, TWP portion of tree island and South property line.	2020	TWP Open Space Staff	
	Interseed as needed following C.R.R. Phase 1 Management Schedule.	2021		

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Kildare

Updated: April, 2017

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: 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 rink, 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
		Monitor erosion at HOA culvert outflow and take appropriate action when needed.	Ongoing	
	Maintain	Install rip-rap at HOA culvert outflow.	2017	
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, 2017

Map Symbol: Management Unit (List all communities) under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Playground, Athletic	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 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, porta potties, 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	Seal coat sidewalks every two years or as needed.	2018	Contractor
		As funds become available plant native seed, trees and shrubs. 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 Ongoing	TWP Open Space Staff TWP Open Space Staff, Volunteers, Conserve Lake County

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Restore cont.	Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	2017	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 and provide opportunities for volunteers.	Ongoing	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, Conserve Lake County
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, etc.	Ongoing	Supervisor, TWP Open Space Staff
Site Survey	Survey property boundaries.	2018	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	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
B: Playground (continued)	Maintain (continued)	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	
		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.	2018	Supervisor, TWP Open Space Staff
	Monitor	Monitor construction of LCPW water tower, use of TWP parking lot and restoration of site conditions and TWP property.	2017-18	
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.	2017	
		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	
		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 2017	TWP Open Space Staff
		Herbicide invasives: Canada thistle, teasel and buckthorn.	Ongoing	
	Monitor	Continue to monitor stormwater runoff and potential erosion issues with LCFPD and SMC.	Ongoing	Supervisor, TWP Open Space Staff, LCFPD, SMC, Contractor

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Milwaukee Avenue

Updated: April, 2017

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
		Line trim and herbicide weeds along Milwaukee Rd. sidewalk.	Seasonally	TWP Open Space Staff, Buildings and Grounds Manager
	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.	2018-19	Supervisor, Contractor
		Install ownership signs along Milwaukee Avenue.	2018-19	TWP Open Space Staff
	A. Restored Short Grass Prairie	Monitor	Conduct a vegetative survey.	2019
B. Agriculture Field	Review farm license	As farm license expires (12/31/2017), continue to evaluate license and restoration opportunities as per the Casey Road Land Use Plan.	Summer 2017	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 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 (5-31-2020).	Fall 2019	Supervisor, Trustees, TWP Open Space Staff
G. Agriculture Field	Review farm license	Review and evaluate farm license as license expires (5-31-2019).	Fall 2018	Supervisor, Trustees, TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Old School Road

Updated: April, 2017

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.		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 vegetative survey in June.	2019	Contractor, 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.	2017-2018	
	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.		
		Continue to explore future opportunities for volunteer workdays.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County

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.	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
		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.	2017-18	Supervisor, TWP Open Space Staff, Conserve Lake County, INPC
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 create group openings; all to allow for more light to penetrate forest floor. Remove invasive plants.	Ongoing	TWP Open Space Staff
		Prescribe burn in dormancy.	Fall 2017	

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 create group openings; all to allow for more light to penetrate floor. Remove invasive plants.	Ongoing	TWP Open Space Staff
		Prescribe burn in dormancy.	Fall 2017	
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 create group openings; all to allow for more light to penetrate floor. Remove invasive plants.	Ongoing	TWP Open Space Staff
		Prescribe burn in dormancy.	Fall 2017	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: River Road

Updated: April, 2017

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Easement, Paddocks, Agriculture Field, Woodland, Wetland, Trail, Retired Hay Field, Former Home site and Agricultural Field	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 easement. 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 Easement	Monitor	Review and monitor easement. Complete easement monitoring log sheet.	Annually	TWP Open Space Staff, Easement monitor
		Getz One	2017	
	Land Swap	Update mapping to reflect new management units, building demolition and home site restoration.	2017	TWP Open Space Staff
B. Agriculture Field, Paddocks	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.	Ongoing	
			Explore possibility of paddock fence removal.	2019
	Maintain	Mow unleased portion of hay field as needed to prevent weed growth and woody establishment.	2017-19	TWP Open Space Staff
C. Woodland	Restore	Explore possibilities of restoration.	2017-18	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
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

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
G. Former Home site and Agriculture Field	Monitor	Monitor demolition contract and restoration.	2017	TWP Open Space Staff, Supervisor
		Contract and monitor home site tree removal	2017	
	Restore	Restore home site to agricultural use. Incorporate into existing farm license	2017-19	
	Maintain	Mow hay field as needed to prevent weed growth and woody establishment.	2017-19	TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Rt. 45

Updated: April, 2017

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	
		Make sure rules and ownership signs are in place to ensure visitor safety.		
		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
		Implement burn plan in conjunction with easement holder.	Annually	TWP Open Space Staff, Easement Holder
		Collect and sow seed generated from 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	
		Conduct a vegetative survey in May, June, or July.	2018	LCFPD, TWP Open Space Staff
	Communication	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.	Annually	Conserve Lake County, TWP Open Space Staff, Supervisor
	Document	Monitor horse stable construction, post construction, and impacts to Bott Prairie hydrology, vegetation, etc.	Every Other Month	TWP Open Space Staff
	Site survey	Survey property boundary and install permanent marking posts.	2018	Supervisor, TWP Open Space Staff, Contractor
	B. Abandoned Nursery	Restore	Explore grant opportunities for site restoration.	Ongoing
Explore alternative land use options and restoration methods including grazing, agroforestry, etc.			Ongoing	Supervisor, TWP Open Space Staff, LP Foundation
Begin initial clearing			2019	TWP Open Space Staff
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.	Annually	TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Rt. 45

Updated: April, 2017

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
		Implement burn plan in conjunction with easement holder.	Annually	TWP Open Space Staff, Easement Holder
		Collect and sow seed generated from 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	
		Conduct a vegetative survey in May, June, or July.	2018	LCFPD, TWP Open Space Staff
	Communication	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.	Annually	Conserve Lake County, TWP Open Space Staff, Supervisor
	Document	Monitor horse stable construction, post construction, and impacts to Bott Prairie hydrology, vegetation, etc.	Every Other Month	TWP Open Space Staff
	Site survey	Survey property boundary and install permanent marking posts.	2018	Supervisor, TWP Open Space Staff, Contractor
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
		Begin initial clearing	2019	TWP Open Space Staff
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.	Annually	TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Rt. 137

Updated: May, 2017

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Agriculture Fields, Wetland, Wet Prairie Remnant, Woodlands, Abandoned Nursery, 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
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
		Monitor progress of Birdscaping plantings.	2017	TWP Open Space Staff, LC Audubon
	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	Seek and apply for restoration grants targeting wetland and riparian areas (WMB, 319).	Ongoing	Supervisor, 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	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.	Ongoing	
		Conduct a volunteer workday.	2017	TWP Open Space Staff, Volunteers, LC Audubon

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	Explore opportunities for site steward.	Ongoing	TWP Open Space Staff, Volunteers, 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.	2018	Supervisor, Surveyor, TWP Staff
	Bull Creek Trail	Monitor trail post construction. Document warranty work.	2017	TWP Open Space Staff
		Install boardwalk riprap	2017	
		Sealcoat boardwalk.	As needed	
		Conduct follow up treatments to areas 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 (10-31-19).	Spring 2018	Supervisor, TWP Open Space Staff
	Restore	Seek and apply for restoration grants.	Ongoing	Supervisor, TWP Open Space Staff
B. Wetland	Monitor	Keep drainage free flowing and free of obstructions.	As needed	TWP Open Space Staff
		Monitor erosion of creek banks and gullies and take appropriate action when needed.	Ongoing	Supervisor, TWP Staff
	Restore	Re-introduce pre-settlement fire regime. Implement and evaluate burn plan. Install fire breaks.	2018	TWP Open Space Staff
		Begin restoration using applied and received grant funds.	2017	
		Conduct a large scale herbicide project focusing on phragmites, purple loosestrife and reed canary grass.	2019	
	Control wetland invasives such as phragmites, reed canary grass, purple loosestrife.	Ongoing	TWP Open Space Staff, Volunteers	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
C. Woodlands	Restore	Explore restoration opportunities.	Ongoing	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
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	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
E. Abandoned Nursery	Restore	Begin initial clearing and herbiciding of invasive trees adjacent to trail corridor.	2017-18	TWP Open Space Staff
	Follow up treatments	Conduct follow up treatments to areas previously cleared of invasives.	2018-19	Supervisor, TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: St. Mary's Road

Updated: May, 2017

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Oak woodland, Prairie,	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.	Monthly	
		Conduct a vegetative survey on units previously cleared.	2018	TWP Open Space Staff, LCFPD, Contractor
	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	
		Maintain and mow grass, trim trees, mulch, pull weeds, herbicide trail edges, etc. in order to provide an aesthetically pleasing view for users and nearby residents.	Seasonally as needed	
		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	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.	2017	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.	2017	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 Open Space Staff, Volunteers
D. Maxey Easement	Monitor	Review and monitor easement. Complete easement monitoring log sheet.	Annually	TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Township Campus

Updated: May, 2017

Map Symbol: Management Unit (List all communities)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Park, Footpath, Mowed	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	
		Keep sidewalks and parking lots free from snow, ice, and debris to ensure they are safe for users and aesthetically pleasing.	Daily	Buildings and Grounds Manager, Township 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	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: (continued)	Maintain cont.	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	Buildings and Grounds Manager, Township Open Space Staff, Contractor
	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	Buildings and Grounds Manager
		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	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
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
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: May, 2017

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
	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).	As Needed	Supervisor
		Conduct regular site visits and document artificial turf construction.	2017	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
		Monitor beaver activity and wetland water levels. Document changes.	Monthly	TWP Open Space Staff
	Restore	Control spread of wetland invasives such as phragmites.	Ongoing	TWP Open Space Staff