

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Atkinson Road

Updated: March, 2021

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	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.	2022	Contractor, TWP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	TWP Open Space Staff
		Evaluate need for trail repairs including additional culverts and trail raising.	Ongoing	
		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	
		Evaluate need for trail resurfacing.	2025	Supervisor, TWP Open Space Staff
Restore		Patch and sealcoat asphalt trail every two years or as needed.	2021	Contractor
		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	TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Trail, Oak Hickory Woodland, Mitigation Bank (continued)	Restore (continued)	Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	2021	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	
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	Ongoing	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, 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
		Continue communications with the INPC for possible Nature Preserve dedication.	Ongoing	Supervisor, TWP Open Space Staff, Openlands, Illinois Nature Preserve Commission (INPC)
		Continue communications with American Kestrel box monitor regarding maintenance, monitoring, reporting updates.	Ongoing	TWP Open Space Staff
	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 and mark property boundaries.	2022	Contractor, TWP Open Space Staff
	A. Oak Hickory Woodland, Trail	Document	Photo document regeneration of native vegetation.	Spring & Fall
Maintain		Cur and herbicide re-sprouts as needed. Implement burn plan.	Ongoing 2021	
B. Mitigation Bank, Trail	Maintain	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
		Keep drainages and culverts free flowing and free of obstructions.	As needed	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Butterfield Road (Canterbury)

Updated: March, 2021

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".	2021	
		Maintain agreement # 2761799 between Canterbury Homeowners Association and Township regarding tree planting and maintenance requirements for management unit "A".	Ongoing	
		Conduct a vegetative survey.	2022	Contractor, TWP Open Space Staff
		Monitor donated memorial plaques, benches and volunteer habitat projects (snake hibernalculum, hawk nest platform, bird houses and informational signage).	Ongoing	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.	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, memorial plaques, etc.	Ongoing	
Spray turf edges for broadleaf weeds and evaluate future need.	2021			
Sealcoat asphalt trailheads every two years or as needed.	2021			
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.	2021	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.	Ongoing	Supervisor, TWP Open Space Staff	
		Communication	Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after). 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	
		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, control 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.	Ongoing	TWP Open Space Staff, Supervisor
Restore	Enhance and encourage short grass prairie. Inter-seed in herbicided and burned areas with native short grass prairie species, plant trees and shrubs as funding becomes available.			Annually 2021	TWP Open Space Staff	
	Maintain	Trim and prune planted trees. Remove dead ash trees as needed.	Annually			

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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, control weeds, etc. in order to provide an aesthetically pleasing view for residents.	Seasonally as needed	
	Restore	Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
		Discuss with Village of Libertyville future IGA for the maintenance of natural areas of Canterbury Park adjacent to Township property. Activities may include herbiciding and tree removals.	2021-22	TWP Open Space Staff, Village of Libertyville
		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.	Ongoing	TWP Open Space Staff
		Evaluate need for large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2024	Contractor, TWP Open Space Staff
	Monitor	Monitor and repair muskrat damage to trail berm. Evaluate need for additional rip-rap.	Ongoing	TWP Open Space Staff
		Monitor Mundelein trail connection drainage and water damage from offsite sources.	Ongoing	Supervisor, TWP Open Space Staff
	Restore	Keep drainage free flowing and free of obstructions. Continue to follow recommendations outlined in the Lake County Storm Water Management (LCSMC) plan. Seek grant opportunities for restoration.	Ongoing	TWP Open Space Staff
		Continue riparian corridor clearing. Remove log jams identified in 2018.	2021-22	TWP Open Space Staff
C. Riparian Corridor, Mitigation Bank, Stream Channel, Wetland		Evaluate need for large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2024	Contractor, TWP Open Space Staff
		Sow cover crop. 19.1 ac.	2021	TWP Open Space Staff
		Sow native seed. 19.1 ac.	2022	TWP Open Space Staff
	Maintain	Install and maintain riprap outlet protection at drain tile outlet near Mundelein Connection.	2021	TWP Open Space Staff
		Monitor and maintain spillway at Seavey Ditch outlet basin. Add riprap as needed.	2021	
		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 Buffer, 2017 Almond Marsh Buffer, 2018 Section 319 Grant)

Updated: March, 2021

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Restored 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.	2022	Contractor
		Conduct regular site visits. Inspect boundaries and encroachments.	Every Other Month	TWP Open Space Staff
		Update the encroachment inventory. Document conditions.		
		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 Open Space Staff, Volunteers
		Continue to monitor and prevent creek bank erosion by installing erosion control measures.	Ongoing	TWP Open Space Staff
		Obtain bluebird trail monitoring data.	Annually	TWP Open Space Staff, Volunteers
		Begin preliminary planning and permitting for trail resurfacing.	2021-22	TWP Open Space Staff, Supervisor, Engineer
		Provide and maintain limited, appropriate visitor amenities such as: trail, Knox boxes, bollards, parking lot, portable toilet, picnic table, garbage cans, kiosk, benches, dog waste receptacles, equestrian dismount blocks, memorial plaques, etc.	Ongoing	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 "no snowmobile" signage seasonally to discourage snowmobile usage.	Annually in Fall	TWP Open Space Staff		
Install seed, trees, shrubs, and plugs that meet INPC specs as funds become available and when appropriate.	As needed	TWP Open Space Staff, Volunteers		

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.	Annually	TWP Open Space Staff, Volunteers	
		Explore opportunities to implement the board approved Casey Road Land Use Plan. Continue phased restoration approach.	Ongoing	TWP Open Space Staff, Supervisor, Openlands, Trustees	
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	Ongoing	TWP Open Space Staff, Volunteers	
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Annually	TWP Open Space Staff	
		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.	Ongoing		
		Obtain information including but not limited to: volunteer workday results, vegetation monitoring, bluebird monitoring, annual easement monitoring, etc.	Annually	TWP Open Space Staff, Supervisor, Volunteer Coordinator	
		Communication	Continue communications with Village of Grayslake, INPC, Lake County Forest Preserve District (LCFPD), and Openlands.	Ongoing	TWP Open Space Staff, Supervisor, Openlands
			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, Openlands
			Continue communications with American Kestrel box monitor regarding maintenance, monitoring, reporting updates.	Ongoing	TWP Open Space Staff
A. Restored Agriculture Field (Oak Openings Buffer)	Restore	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
			Control invasives: reed canary grass, Canada thistle, and clover.	Annually	TWP Open Space Staff, Volunteers
			Prescribe burn in accordance with burn plan.	2021	
			Continue restoration of hedgerow #3 including tree removal and rock pile removal.	2021-22	TWP Open Space Staff
	Maintain	Evaluate need to resurface gravel parking lot.	2025		
		Conduct follow up treatments to areas already cleared of invasives in hedgerow.	Ongoing		

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B. Riparian Corridor (Oak Openings Buffer)	Maintain	Continue initial clearing of the creek corridor removing invasive species.	2020-23	TWP Open Space Staff, Volunteers
		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.	2021	
C. Restored Agriculture Field (Oak Openings Buffer)	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.	Annually	TWP Open Space Staff, Volunteers
		Monitor erosion of creek banks and take appropriate action when needed.	Ongoing	TWP Open Space Staff
		Control invasives: reed canary grass, sweet clover, woody invasives, and brome.	Annually	TWP Open Space Staff, Volunteers
D. Mesic Oak Woodland (Oak Openings Buffer)	Restore	Prescribe burn in accordance with burn plan.	2021	
		Monitor trail erosion near underpass and complete trail improvements to alleviate erosion and water issues if needed.	Ongoing	TWP Open Space Staff
E. Mesic Oak Woodland (Oak Openings Buffer)	Restore	Continue initial clearing removing buckthorn, honeysuckle and Japanese barberry.	2020-23	TWP Open Space Staff, Volunteers
		Prescribe burn in accordance with burn plan.	2022-23	
		Prescribe burn in accordance with burn plan.	Spring 2021	TWP Open Space Staff, Volunteers
F. Savanna (Oak Openings Buffer)	Maintain	Conduct follow up treatments to areas already cleared of invasives.	Ongoing	TWP Open Space Staff, Volunteers
		Mow grass foot path as needed on Township property.	Monthly	TWP Open Space Staff
G. Retired Agriculture Field, Walnut Grove (Almond Marsh Buffer)	Restore	Control invasives: reed canary grass, brome, Canada thistle, garlic mustard, buckthorn and darnes rocket.	Annually	TWP Open Space Staff, Volunteers
		Prescribe burn in accordance with burn plan.	Spring 2021	
		Control invasives: Canada thistle, reed canary grass, multiflora rose and brome.	Annually	TWP Open Space Staff
		Prescribe burn in accordance with burn plan.	2022-23	TWP Open Space Staff, Volunteers
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	TWP Open Space Staff, Volunteers
		Remove rock pile.	2021-22	TWP Open Space Staff
		Sow native seed and cover crop excluding walnut grove. 3.5 ac.	2021	



Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
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.	2022-23	TWP Open Space Staff, Volunteers
		Remove final tree island.	2021-22	
I. Agriculture Field	Monitor	Seasonally adjust water level to aid in controlling invasive wetland vegetation. Stop logs arc to be raised in the winter and lowered in the spring.	Seasonally	TWP Open Space Staff
		As farm license expires (12-31-2021), continue to review license and explore restoration opportunities outlined in the Board approved Casey Road Land Use Plan.	Summer 2021	Supervisor, Trustees, TWP Open Space Staff
J. Baxter Grove (Oak Openings Buffer)	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, Openlands, TWP Open Space Staff
		Assess wetland mitigation bank feasibility and identify appropriate next steps. Continue working with stakeholders to implement plan.	Ongoing	Supervisor, Openlands, TWP Open Space Staff, Engineer
		Review and evaluate farm license (expires 11-30-2025).	Spring 2025	Supervisor, Trustees, TWP Open Space Staff
K. Restored Agricultural Field (Almond Marsh Buffer)	Monitor	Install and Maintain INPC boundary signage.	2021	TWP Open Space Staff
		Photo document restoration progress using Casey Road Restoration (CRR) Phase 1 Photo Point Log in growing season.	2018-21	TWP Open Space Staff, Volunteers
		Monitor for invasive outbreaks. Take action as necessary.	2018-21	
		Conduct seed establishment monitoring following CRR Phase 1 protocol.	2021	
	Maintain	Monitor the progress of the Donnelley oak tree planting and maintain as needed.	Annually	TWP Open Space Staff
		Maintain boundary signage: Carsonite survey markers, Open Space signage and INPC signage.	Ongoing	
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans.	2020-21	TWP Open Space Staff, Volunteers
	Restore	Interseed as needed.	2021	TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
L. Restored Agricultural Field (Almond Marsh Buffer)	Monitor	Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2018-21	TWP Open Space Staff, Volunteers
		Monitor for invasive outbreaks. Take action as necessary.	2018-21	
		Conduct seed establishment monitoring following C.R.R. Phase 1 protocol.	2021	
		Maintain boundary signage: Carsonite survey markers, Open Space signage and INPC signage.	Ongoing	TWP Open Space Staff
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans.	2020-21	TWP Open Space Staff, Volunteers
M. Agriculture Field	Monitor	Interseed as needed.	2021	TWP Open Space Staff
		As farm license expires (12-31-2021), continue to review license and explore restoration opportunities outlined in the Board approved Casey Road Land Use Plan.	Summer 2021	Supervisor, Trustees, TWP Open Space Staff
		Restore	Ongoing	Supervisor, Openlands, TWP Open Space Staff
		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.		
		Assess wetland mitigation bank feasibility and identify appropriate next steps. Continue working with stakeholders to implement plan.	Ongoing	Supervisor, Openlands, TWP Open Space Staff, Engineer
N. Agriculture Field	Monitor	As farm license expires (12-31-2021), continue to review license and explore restoration opportunities outlined in the Board approved Casey Road Land Use Plan.	Summer 2021	Supervisor, Trustees, TWP Open Space Staff
		Restore	Ongoing	Supervisor, Openlands, TWP Open Space Staff
		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.		
		Assess wetland mitigation bank feasibility and identify appropriate next steps. Continue working with stakeholders to implement plan.	Ongoing	Supervisor, Openlands, TWP Open Space Staff, Engineer
		Review inholding ingress and egress easement (driveaway).	As needed	Supervisor, TWP Open Space Staff
O. Agriculture Field (2018 Section 319 Grant)	Monitor	Monitor for invasive outbreaks. Take action as necessary.	2019-21	TWP Open Space Staff, Volunteers
		Monitor steep slopes and erosion prone areas until vegetation becomes established. Take action as necessary.	2019-21	TWP Open Space Staff
		Monitor plugs planted in erosional areas. Water as necessary.	2021	TWP Open Space Staff
		Install and maintain boundary signage, INPC signage, etc.	Ongoing	
		Maintain	Ongoing	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
O. Agriculture Field (2018 Section 319 Grant) (continued)	Restore	Complete maintenance and documentation activities as described in the Section 319 O&M plan in the Spring and Fall. Submit to LCSSMC.	2020-30	TWP Open Space Staff
		Mow as needed.	2019-21	
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans.	2022-23	TWP Open Space Staff, Volunteers
		Interseed as needed.	2023	TWP Open Space Staff
		Complete maintenance and documentation activities as described in the Section 319 O&M plan in the Spring and Fall. Submit to SMC.	2020-2030	Supervisor, TWP Open Space Staff
		Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2019-21	TWP Open Space Staff, Volunteers
Communicate	Continue communication with LCSSMC, LCFPD, neighbors.	Ongoing	Supervisor, Openlands, TWP Open Space Staff	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Casey South (Liberty Prairie Nature Preserve and Buffer, Donnelly Prairies and Oaks Buffer)

Updated: March, 2021

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Graminoid Fen, Restored Prairie, Restored Agriculture Fields, Sedge Meadow, Riparian Corridor, Woodland, Hillside Sedge, Sedge Meadow, Trail <b>Monitored Species:</b> Slender Bog Arrow Grass, Fringed Gentian, Grass of Panassus, Bluebirds, Butterflies, Frogs.	Monitor	Obtain species monitoring results. Slender Bog Arrow Grass, Fringed Gentian, Grass of Panassus, Bluebirds, Butterflies, Frogs.	Annually	TWP Open Space Staff, 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, Supervisor, Trustees
		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	TWP Open Space Staff
		Tree and shrub screen allowed along property edges to control off-road vehicle access.	Ongoing	
		Conduct a vegetative survey.	2022	Contractor
		Sealcoat boardwalks every two years or as needed.	2021	TWP Open Space Staff
		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	
Phase 1 & 2 Birdscaping plantings. Update tree inventory as needed.	Annually	TWP Open Space Staff		
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	
	As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.	Annually		

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, Volunteers
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	Ongoing	
		Document	Ongoing	TWP Open Space Staff, Supervisor
		Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	Ongoing	
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	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, Volunteers, Contractor
		Obtain information regarding shallow and deep well monitoring when possible.	Ongoing	
		Communication	Ongoing	Supervisor, TWP Open Space Staff, INPC, ICFPD
			Ongoing	Supervisor, TWP Open Space Staff
A: Graminoid Fen	Recreation	Continue communications with American Kestrel box monitor regarding maintenance, monitoring, reporting updates.	Ongoing	TWP Open Space Staff
		Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross country skiing, horseback riding, etc.	Ongoing	
		Conduct prescribed burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
		Control invasives: reed canary grass, cattails, purple loosestrife, oriental bittersweet and multiflora rose.	Ongoing	
Monitor	Monitor	Conduct follow up treatments to areas already cleared of invasives. Spot mow areas of woody outbreaks as needed.	Ongoing	
		Conduct a vegetative survey of plants of concern, obtain and track results.	Annually	

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B: Prairie, Wet Prairie, Wet Mesic Prairie, Mesic Prairie	Restore	Conduct prescribed burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
		Control invasives: reed canary grass, purple loosestrife, Canada thistle, grey dogwood, buckthorn, and phragmites.	Annually	
		Collect and interseed in accordance with INPC seed collecting protocol.		
		Conduct large scale herbicide project to control wetland invasives such as phragmites, cattails and reed canary grass.	As needed	Contractor, TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of invasives. Spot mow areas of woody outbreaks as needed.	Ongoing	TWP Open Space Staff
	Monitor	Monitor plants of concern and document.	Annually	Volunteers
C. Restored Prairie	Restore	Conduct prescribed burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
		Control invasives: reed canary grass, purple loosestrife, Canada thistle, grey dogwood, buckthorn, and oriental bittersweet.	Annually	
		Spot mow areas of woody outbreaks as needed.	As needed	TWP Open Space Staff
D. Sedge Meadow	Restore	Conduct prescribe burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
		Control invasives: reed canary grass, cattails, and phragmites.	As needed	
		Conduct large scale herbicide project to control wetland invasives such as phragmites, cattails and reed canary grass.	As needed	Contractor, TWP Open Space Staff
E. Riparian Corridor	Restore	Control invasives: garlic mustard, reed canary grass, oriental bittersweet, brome, darnes rocket, clover, and buckthorn.	Annually	TWP Open Space Staff
		Conduct follow up treatments. Continue to griddle cottonwoods.	Ongoing	
		Interseed cleared areas with seed collected on site.	Ongoing	
		Sow native seed and cover crop.	2021	
		Conduct prescribed burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
F. Restored Agriculture Field	Restore	Conduct prescribed burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
		Interseed in fall after burns with collected seed on site.	As needed	
		Conduct large scale herbicide project to control wetland invasives such as phragmites, cattails and reed canary grass.	As needed	Contractor, TWP Open Space Staff
		Control invasives: Canada thistle and reed canary grass.	Annually	TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
G. Retired Agriculture Field	Restore	Control reed canary grass, buckhorn, teasel, clover, bromes, and dames rocket.	Annually	TWP Open Space Staff
		Complete full restoration: herbicide application, burn, native seed.	2021	
		Interseed in fall after burns with collected seed on site.	2021	TWP Open Space Staff, Volunteers
		Conduct prescribe burn in accordance with the burn plan.	2021-22	
H. Woodland, Remnant Prairie, Restored Prairie	Restore	Conduct prescribe burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
		Interseed with collected seed from site.	2021	
		Sow native seed and cover crop. Units E, G, H 8.5 ac.	2021	
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
		Control invasives: buckhorn, oriental bittersweet, reed canary grass, and Canada thistle.	Annually	TWP Open Space Staff
I. Hillside Seep	Restore	Conduct prescribed burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
J. Sedge Meadow	Monitor	Control invasives: purple loosestrife, cattails, willow.	Annually	TWP Open Space Staff
K. Restored Agriculture Field	Restore	Monitor and control invasive outbreaks.	As Needed	
		Continue to control invasives.	Annually	
		Conduct prescribed burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
L. Bottomland Successional Woods (2017)	Monitor	Begin clearing of invasives along northern property line hedgerow.	2025	TWP Open Space Staff
		Monitor and repair WMB Head Cut Project.	2021-22	Supervisor, TWP Open Space Staff
		Seek grant opportunities to remove woody species and restore creek corridor.	Ongoing	Supervisor, LCSMC
Donnelley Prairies and Oaks Buffer)	Restore	Continue restoration as outlined in the SMC plan, Casey Road Land Use Plan, Liberty Prairie Master Plan, 2011 Hey & Assoc. proposal.	2025	Supervisor, TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of invasives (2017 Riparian Corridor Clearing).	Ongoing	TWP Open Space Staff
		Monitor the need for a dam inspection. Monitor overall integrity of the water level control structure.	Ongoing	Supervisor, TWP Open Space Staff
M. Impoundment (2017 Donnelley Prairies and Oaks Buffer)	Monitor	Conduct prescribed burn in accordance with the burn plan.	2022	TWP Staff, Volunteers
		Continue initial clearing of trees and brush.	2022	
		Conduct follow up treatments to areas already cleared of invasives (2017 Riparian Corridor Clearing).	Ongoing	TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
M. Impoundment (2017 Donnelley Prairies and Oaks Buffer) (continued)	Restore (continued)	Control invasives: reed canary grass.	Ongoing	TWP Open Space Staff
	Signage	Install and maintain signage.	2021	
N. Restored Agriculture Fields, Access Drive, Stockpile Area (2017 Donnelley Prairies and Oaks Buffer)	Monitor	Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season. Monitor for invasive outbreaks. Take action as necessary.	2019-21	TWP Open Space Staff, Volunteers
		Conduct seed establishment monitoring following C.R.R. Phase 1 protocol.	2021	
		Obtain volunteer species (frog, bird, butterfly) monitoring results. Post results to website.	Annually	TWP Open Space Staff, Supervisor
	Restore	Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans. Perform follow up treatments to areas previously cleared of invasives.	2020-21	TWP Open Space Staff, Contractor
		Ongoing	TWP Open Space Staff	
		Interested as needed.	2021	
O. Retired Pasture	Monitor	Locate and review ingress/egress easement.	Annually	TWP Open Space Staff, Supervisor
	Restore	Obtain information related to the deep well monitoring station if necessary. Continue to control invasives. Conduct follow up treatments to areas already cleared of woody invasives.	Ongoing	TWP Open Space Staff
		Conduct prescribed burn in accordance with the burn plan.	Annually	TWP Open Space Staff, Volunteers
		Install seed, trees, shrubs, and plugs that meet INPC specs as funds become available and when appropriate.	Spring 2022	TWP Staff, Volunteers
		Maintain planting by mowing, burning, treating invasives.	As needed	TWP Open Space Staff
P. Restored Agricultural Field (2017 Donnelley Prairies and Oaks Buffer)	Monitor	Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season. Monitor for invasive outbreaks.	2020-22	TWP Open Space Staff, Volunteers
		Conduct seed establishment monitoring following C.R.R. Phase 1 protocol.	2019-21	
		Obtain volunteer species (frog, bird, butterfly) monitoring results. Post results to website.	2021	
	Document		Annually	TWP Open Space Staff, Supervisor



Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
P. Restored Agricultural Field (2017 Donnelley Prairies and Oaks Buffer) (continued)	Restore	Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans.	2020-21	TWP Open Space Staff, Contractor
		Interseed as needed.	2021	TWP Open Space Staff
		Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season. Monitor for invasive outbreaks.	2019-21	TWP Open Space Staff, Volunteers
Q. Restored Agricultural Field & Cleared Hedgerow (2017 Donnelley Prairies and Oaks Buffer)	Monitor	Conduct seed establishment monitoring following C.R.R. Phase 1 protocol.	2021	
		Obtain volunteer species (frog, bird, butterfly) monitoring results. Post results to website.	Annually	TWP Open Space Staff, Supervisor
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans.	2020-21	TWP Open Space Staff, Contractor
R. Restored Agricultural Field & Cleared Hedgerow (2017 Donnelley Prairies and Oaks Buffer)	Restore	Interseed as needed.	2021	TWP Open Space Staff
		Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season. Monitor for invasive outbreaks.	2019-21	TWP Open Space Staff, Volunteers
		Conduct seed establishment monitoring following C.R.R. Phase 1 protocol.	2021	TWP Open Space Staff, Volunteers
S. Restored Agricultural Field (2017 Donnelley Prairies and Oaks Buffer)	Monitor	Obtain volunteer species (frog, bird, butterfly) monitoring results. Post results to website.	Annually	TWP Open Space Staff, Supervisor,
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans.	2020-21	TWP Open Space Staff, Contractor
		Interseed as needed.	2021	TWP Open Space Staff
S. Restored Agricultural Field (2017 Donnelley Prairies and Oaks Buffer)	Restore	Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2019-21	TWP Open Space Staff, Volunteers
		Monitor for invasive outbreaks.	2019-21	
		Conduct seed establishment monitoring following C.R.R. Phase 1 protocol.	2021	TWP Open Space Staff, Volunteers

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel	
S. Restored Agricultural Field (2017 Donnelley Prairies and Oaks Buffer (continued))	Document	Obtain volunteer species (frog, bird, butterfly) monitoring results. Post results to website.	Annually	TWP Open Space Staff, Supervisor	
	Restore	Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans.	2020-21	TWP Open Space Staff, Contractor	
		Interseed as needed.	2021	TWP Open Space Staff	
	Begin clearing of TWP portion of East hedgerow, TWP portion of tree island and South property line.			2025	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Kildare

Updated: March, 2021

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		
		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	
		Restore	Begin initial clearing of parcel.	2021-22	TWP Open Space Staff
		Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	Ongoing	Supervisor, TWP Open Space Staff
		Communication	Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after). 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
		Recreation	Explore 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

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	
B. Wooded Riparian Corridor	Monitor	Install rip-rap at HOA culvert outflow as needed.	As needed	
		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
C. Ingress/ Egress Easement	Monitor	Seek grant opportunities for restoration. Seek opportunities for volunteer workdays.	Ongoing	
		Review and monitor ingress/egress easement.	As needed	Supervisor, TWP Open Space Staff
		Locate and review agreement for maintenance of mowed area.	Ongoing	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Lindholm Park

Updated: March, 2021

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Playground, Athletic Fields, Trail, Woodland, Cool Season Meadow	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 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	
		Provide and maintain amenities including but not limited to: the trail, bollards, Knox boxes, benches, trash cans, birdbuses, dog waste centers, culverts, mowed trail edges, athletic fields, porta potties, memorial plaques, picnic tables, etc.	Ongoing	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.	2021
	As funds become available plant native seed, trees and shrubs.	Ongoing	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.	An needed	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		
		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.	Ongoing	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, 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	
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, etc.	Ongoing		
	Site Survey	Survey and mark property boundaries.	2023	Contractor, TWP Open Space Staff	
	A. Athletic Fields Infield, Outfield	Maintain (Infield)	Evaluate the need for surface conditioners.	2021	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.			2022	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	TWP Open Space Staff	
		Communication	Install kiosk for posting ballfield permits and schedule.	2021	
B. Playground	Inspect	Install seasonal and temporary field closure signage.	As Needed		
		Complete inspection, fill out inspection form and repair deficiencies immediately.	April & October	TWP Open Space Staff	
	Maintain	Add playground approved woodchips to recommended levels. Prepare to remove the remaining ash trees and replace with native plant material.	As needed As needed		

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
B. Playground (continued)	Maintain (continued)	Continue to maintain native planting bed.	Ongoing	TWP Open Space Staff
		Update playground equipment. Evaluate need for replacement or repairs.	2024-26	Supervisor, TWP Open Space Staff
C. Parking Lot	Maintain	Seal coat parking lot every two years.	2021	Supervisor, TWP Open Space Staff
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.	2021	
		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	
E. Cool Season Meadow	Maintain	As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.	Ongoing	TWP Open Space Staff
		Prescribe burn in accordance with burn plan.	2021	
		Herbicide invasives: Canada thistle, teasel and buckthorn.	Ongoing	
	Monitor	Continue to monitor storm water runoff and potential erosion into Wilmot Woods Forest Preserve.	Ongoing	Supervisor, TWP Open Space Staff, ICFPPD

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Milwaukee Avenue

Updated: March, 2021

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, Grass Filter Strip	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 Open Space Staff
		Monitor and discuss long term maintenance needs and key personnel regarding Milwaukee Road sidewalk.	As needed	Supervisor, 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.	Monthly	TWP Open Space Staff
		Line trim, herbicide weeds and pick up litter along Milwaukee Rd. sidewalk (Casey Rd. to Janas Ct.) and access gate.	Seasonally	TWP Open Space Staff, Buildings and Grounds Manager
		Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	Ongoing	TWP Open Space Staff, Volunteers
		Restore	Seek and apply for restoration grants and for volunteer opportunities.	Annually
	As funds become available plant native seed, trees and/or shrubs using recommended species and quantities outlined in the INPC guidelines.	Annually	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. 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
		Coordinate effort to restore in conjunction with ICFPD and Openlands.	Ongoing	TWP Open Space Staff, ICFPD, Openlands
		Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	Ongoing	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
		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
		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
		Survey and mark property boundaries.	2021	Supervisor, Contractor
		Install ownership signs along Milwaukee Avenue in conjunction with restoration activities.	As needed	TWP Open Space Staff
		Conduct a vegetative survey.	2022	TWP Open Space Staff, ICFPD, Contractor
		Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	2021	TWP Open Space Staff, Volunteers
A. Restored Short Grass Prairie	Monitor	Control invasive species: white sweet clover, reed canarygrass, canada thistle, woodies.	Ongoing	TWP Open Space Staff
		Install property boundary signage along south line.	2021	TWP Open Space Staff
B. Agriculture Field	Restore	As farm license expires (12/31/2021), continue to evaluate license and restoration opportunities as per the Casey Road Land Use Plan.	Summer 2021	Supervisor, Trustees, Advisory Committee, TWP Open Space Staff
		Restore native riparian community.	2022-23	Supervisor, TWP Open Space Staff
C. Wooded Riparian Corridor	Monitor	Monitor creek flow and obstructions under Milwaukee Road underpass box culvert.	Ongoing	TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
D. Woodland	Monitor	Explore restoration and volunteer opportunities.	Ongoing	TWP Open Space Staff
E. Retired Pasture	Seek grant opportunities	Seek and apply for restoration grants to restore native riparian community.	Ongoing	Supervisor, Openlands, TWP Open Space Staff
F. Leased Paddock	Restore	Mow and herbicide to reduce invasive plant populations as needed.	As needed	TWP Open Space Staff
	Review farm license	Review and evaluate farm license as license expires (5-31-2022).	Spring 2022	Supervisor, Trustees, TWP Open Space Staff
G. Agriculture Field	Monitor	Monitor conditions of paddocks and adherence to conditions of license agreement.	Ongoing	TWP Open Space Staff
	Maintain	Install and maintain livestock exclusion fencing in sensitive areas around drainage way.	TBD	Supervisor, TWP Open Space Staff
H. Grass Filter Strip	Review farm license	Review and evaluate farm license as license expires (5-31-2022).	Spring 2022	Supervisor, Trustees, TWP Open Space Staff
I. Drainage Ditch	Restore	Mow and herbicide to reduce invasive plant populations as needed.	As needed	TWP Open Space Staff
	Maintain	Mow and herbicide as needed.	Ongoing	TWP Open Space Staff
	Communication	Continue communication with neighbors, engineer, and stable owner.	Ongoing	Supervisor, TWP Open Space Staff
	Monitor	Monitor driveway drainage especially after large rain events. Remove obstructions to allow free flow of water through box culverts and manhole grates.	Ongoing	TWP Open Space Staff

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Old School Road

Updated: March, 2021

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.	Ongoing	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.	2022	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.	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 Stormwater Management Plan.	Seasonally	
		Stabilize stream banks to prevent undercutting.	As needed	
		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.		
Restore		Continue to explore future opportunities for volunteer workdays.	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
		Continue initial clearing of invasive plants. Cut and herbicide. Conduct follow-up control of invasives.	Ongoing Ongoing	TWP Open Space Staff, Volunteers

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.	Ongoing	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
A. Woodland	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
		Continue communications with the INPC for possible Land and Water Reserve or other further protection.	Ongoing	Supervisor, TWP Open Space Staff, Openlands, INPC
		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 2022	
B. Floodplain	Restore	Control invasives: Buckthorn, burning bush, phragmites.	Annually	
		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 2022	
		Control invasives: Buckthorn, burning bush, phragmites.	Annually	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: River Road

Updated: March, 2021

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 (5/31/2022), review and evaluate farm license details and options.	Fall 2021	Supervisor, 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.	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.	2021	
Document	Document	Maintain wire gate farm access point.	Annually	TWP Open Space Staff
		Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	Ongoing	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
	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 and mark property boundaries.	2024	Supervisor, Surveyor, TWP Open Space Staff
A. Getz 1 Easement	Monitor	Review and monitor Getz 1 Easement (Parcels 2a, 2b). Complete easement monitoring log sheet.	Annually	TWP Open Space Staff
B. Agriculture Field, Paddocks	Review farm license	As farm license expires (5/31/2022), review and evaluate farm license details and options.	Spring 2021	Supervisor, TWP Open Space Staff
	Restore	Continue phragmites control in SE portion of unit along River Rd.	Ongoing	TWP Open Space Staff
C. Woodland	Maintain	Maintain River Rd. frontage along trail. Mow and pick up litter.	Ongoing	TWP Open Space Staff
	Restore	Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	TWP Open Space Staff
		Keep drainage free flowing and free of obstructions.	Ongoing	
		Evaluate the need for interseeding.	2021	
D. Wetland	Restore	Prescribed burn in accordance with the burn plan.	2021	
		Explore possibilities of restoration.	Ongoing	Supervisor, TWP Open Space Staff
E. Paddocks	Monitor easement	Review and monitor easement (Recorded in Lake County as File 7281483) - Independence Realty Conservation Easement. Complete easement monitoring log sheet.	Annually	TWP Open Space Staff
F. Retired Hay Field	Restore	Mow as needed to prevent weed growth and woody establishment.	2020-22	TWP Open Space Staff
		Monitor for invasive outbreaks.	Ongoing	
		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	
		Evaluate the need for interseeding.	2021	
		Prescribed burn in accordance with the burn plan.	2023	TWP Open Space Staff, Volunteers

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
G. Former Home Site and Agriculture Field	Maintain	Mow as needed to prevent weed growth and woody establishment.	Annually	TWP Open Space Staff
	Monitor	Monitor the need for tree removals, etc.	Ongoing	TWP Open Space Staff
	Review farm license	Review and monitor Getz 2 Easement (Parcels 3a, 3b) and Getz 3 easement (Parcels 5a, 5b). Complete easement monitoring log sheet.	As farm license expires (5/31/2022), review and evaluate farm license details and options.	Spring 2021

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Rt. 45

Updated: March, 2021

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.	Ongoing	TWP Open Space Staff	
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month		
		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, etc.	Ongoing	Supervisor, TWP Open Space Staff, Openlands
		Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	Ongoing	Supervisor, TWP Open Space Staff
		Communication	Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after). 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	TWP Open Space Staff
		Recreation	Provide passive recreational opportunities when possible.	Ongoing	
		Restore	Follow-up control of invasives such as buckthorn, thistle, reasel, reed canary grass, etc. Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans. When possible plan in conjunction with easement holder.	Annually  2021	TWP Open Space Staff  TWP Open Space Staff, Easement Holder

A. Bott Prairie



Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A. Bott Prairie (continued)	Restore (continued)	Collect and sow seed generated from on site. Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Annually	TWP Open Space Staff
		Conduct a vegetative survey in May, June, or July. 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	TWP Open Space Staff
B. Abandoned Nursery	Restore	Explore alternative land use options and restoration methods including grazing, agroforestry, etc.	2022	LCFPD, TWP Open Space Staff
		Complete Restoration Management Plan, tree survey, wetland delineation.	Annually	TWP Open Space Staff, Supervisor
		Explore funding opportunities for site restoration.	Ongoing	Supervisor
		Explore alternative land use options and restoration methods including grazing, agroforestry, etc.	Ongoing	Supervisor, TWP Open Space Staff
		Complete Restoration Management Plan, tree survey, wetland delineation.	2021	Supervisor, TWP Open Space Staff, Contractor
C. Bott Easement	Communication	Continue communication updates on land use, restoration and/or grant opportunities with interested parties. Continue communications with contractor throughout the Restoration Management Plan development, revisions and completion.	Ongoing	Supervisor, TWP Open Space Staff
		Stay in contact with easement holder regarding Township restoration activities.	2021	Supervisor, TWP Open Space Staff, Contractor
		Review and monitor easement. Complete easement monitoring log sheet.	Annually	TWP Open Space Staff, Supervisor, Easement Holder
	Monitor		Annually	TWP Open Space Staff

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Rt. 137

Updated: March, 2021

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 and maintain Birdscaping plantings.	Ongoing	TWP Open Space Staff, Lake County Audubon
		Monitor riparian corridor for beaver activity and impacts.	Ongoing	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.	Monthly	TWP Open Space Staff
		Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, memorial plaques, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, kiosk, etc.	Ongoing	
		Evaluate and sealcoat asphalt trail sections every two years.	2021	
		Install and maintain beaver protection fencing.	2021	TWP Open Space Staff
Restore		Inspect and perform maintain boardwalk maintenance.	Annually	TWP Open Space Staff
		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
		As funds become available plant native seed, trees and 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)	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	Ongoing	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
		Continue communications with American Kestrel box monitor regarding maintenance, monitoring, reporting updates.	Ongoing	TWP Open Space Staff
	Recreation	Continue communications with ComEd and USDA Wildlife Services regarding beaver activity.	Ongoing	Supervisor, TWP Open Space Staff, ComEd, USDA
		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 and mark property boundaries.	2020-21	Supervisor, Surveyor, TWP Staff
		Install boardwalk riprap.	As needed	TWP Open Space Staff
	Bull Creek Trail	Conduct follow up treatments to areas cleared of invasives.	Ongoing	
		Review and evaluate ComEd lease details. Expiration (7-31-2035).	Winter 2035	Supervisor, TWP Open Space Staff
Review IGA with Village of Libertyville.		As needed	Staff	
A. Agriculture field		Continue restoration and maintenance activities within IGA area: trail maintenance, mowing, herbiciding, tree removals, etc.	Ongoing	TWP Open Space Staff
		Review and evaluate license details. Evaluate restoration opportunities as license expires (10-31-23).	Spring 2023	Supervisor, TWP Open Space Staff
	Restore	Evaluate opportunities to restore hay fields along ComEd R.O.W. to short grass prairie and remove hedgerow.	2025	
	Monitor	Keep drainage free flowing and free of obstructions.	As needed	TWP Open Space Staff
B. Wetland	Restore	Monitor erosion of creek banks and gullies and take appropriate action when needed.	Ongoing	Supervisor, TWP Open Space Staff
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2021	Contractor, TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
B. Wetland (continued)	Restore (continued)	Evaluate need for large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2024	Contractor, TWP Open Space Staff
		Control wetland invasives such as phragmites, reed canary grass, purple loosestrife.	Ongoing	TWP Open Space Staff
		Sow native seed.	2021-22	
		Remove down logs, brush, etc.	2021-22	
C. Woodlands	Restore	Explore restoration opportunities such as clearing, seeding, burning.	2023-25	Supervisor, TWP Open Space Staff
D. Wet Prairie Remnant	Restore	Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	TWP Open Space Staff
E. Abandoned Nursery	Restore	Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2021	Contractor, TWP Open Space Staff
		Continue initial clearing and herbiciding of invasive trees adjacent to trail corridor moving east towards the property line.	2020-22	
		Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	
		Sow native seed. North 3.34 ac. South 6.1 ac.	2022-23	
		Sow cover crop. South 6.1 ac.	2021	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: St. Mary's Road

Updated: March, 2021

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.	Monthly	
		Conduct a vegetative survey.	2022	TWP Open Space Staff, LCFPD, Contractor
		Monitor ditch reconstruction area for maintenance needs.	2021-22	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.	Monthly	TWP Open Space Staff
		Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, trash cans, birchhouses, dog waste centers, culverts, mowed trail edges, etc.	Ongoing	
		Evaluate and sealcoat asphalt trailheads every two years.	2021	
		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			
Maintain turf along Nells Rd./St. Mary's trailhead from Open Space boundary up to Nells Rd. cul-de-sac staying within the Road District ROW.	Ongoing			

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	
		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.	Annually	TWP Open Space Staff	
		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.	Ongoing	TWP Open Space Staff, Supervisor
		Communication	Photograph parcel when possible during various seasons and during different phases of a given project (before and after).	Ongoing	TWP Open Space Staff
			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
			Continue communications with American Kestrel box monitor regarding maintenance, monitoring, reporting updates.	Ongoing	TWP Open Space Staff
		Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, horseback riding, etc.	Ongoing	
			Conduct follow up treatments to areas previously cleared of invasives. Control invasives using herbicide.	Annually	TWP Open Space Staff
A. Woodlot Oak-Hickory Woods, Oak Savanna	Restore	Prescribe burn in accordance with burn plan.	2023	TWP Open Space Staff, Volunteers	
	Maintain	Keep drainage ditches free flowing and free of obstructions. Continue to follow recommendations outlined in the Lake County Storm Water Management plan.	As needed	TWP Open Space Staff, Supervisor	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
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.	2022	TWP Open Space Staff, Volunteers
	Monitor	Conduct follow-up treatments to previously cleared area. Control invasives using herbicide. During/after rain events check dry basins to ensure they are fully functional.	Annually As needed	TWP Open Space Staff
C. Savanna, Prairie	Restore	Conduct follow up treatments to areas previously cleared of invasives. Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	Ongoing 2020-21	TWP Open Space Staff TWP Open Space Staff, Volunteers
D. Maxey Easement	Monitor	Sow native seed. 12 ac. Review and monitor easement. Complete easement monitoring log sheet.	2021 Annually	TWP Open Space Staff TWP Open Space Staff

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Township Campus

Updated: March, 2021

Map Symbol: Management Unit (List all communities under unit name)	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	Buildings and Ground Manager, 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	Buildings and Grounds Manager, TWP Open Space Staff
		Monitor footpath surface and repair as needed.	Weekly	Buildings and Grounds Manager
		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	Buildings and Grounds Manager
		Conduct visual inspections of buildings and grounds especially after storm events. Make necessary repairs or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	Buildings and Grounds Manager
		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	Buildings and Grounds Manager
		Add mulch to planting beds, herbicide turf broadleaf weeds, spring and fall leaf clean up, as necessary.	Seasonally	Buildings and Grounds Manager, TWP Open Space Staff
		Sealcoat parking lots every two years in conjunction with Open Space Parcels.	2021	Buildings and Grounds Manager, TWP Open Space Staff
		Keep sidewalks and parking lots free from snow, ice, and debris to ensure they are safe for users and aesthetically pleasing.	Seasonally - Winter	Buildings and Grounds Manager, 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



Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel	
Entire Parcel (continued)	Maintain (continued)	Trim trees in dormancy when possible. Promptly remove dead and dying trees to ensure visitor safety. When replacing trees use native selections.	Seasonally	Buildings and Grounds Manager, TWP Open Space Staff, Contractor	
		Include current and long term management direction into Township site management plans, documentation, and all other pertinent information.	Ongoing	Buildings and Grounds Manager, TWP Open Space Staff, Supervisor	
	Document	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).			
	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 "No Overnight Parking" signs are in place and in good condition.			
	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. Allow a lower stocking percentage allowing light to penetrate the ground for better turf establishment. Increase the size of the area for recreation.	Seasonally - Winter	Buildings and Grounds Manager, TWP Open Space Staff, Contractor
			While keeping in mind an open park appearance, strategically plant more diverse and native species for replacement.	As needed	Buildings and Grounds Manager, TWP Open Space Staff
		Maintain Footpath	Add screenings and roll footpath to provide a safe means of travel. Herbicide footpath edges to prevent weeds from growing into path.	As needed	Buildings and Grounds Manager
Maintain Visitor Amenities		Sand, paint and seal picnic tables and benches as needed.	Ongoing		
B. Township Offices and Grounds, Sidewalks, Parking Lot	Maintain Road Frontage Appearance	Maintain sign along Winchester road.	Ongoing		
		Prune trees and shrubs to allow for clear view of signage and beauty nearby landscaping.	Seasonally - Winter		
	Maintain Building	Maintain buildings as needed following maintenance guidelines.	Ongoing	Buildings and Grounds Manager, TWP Open Space Staff	
	Maintain Landscaping	Remove dead and dying trees. If needed 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, TWP Open Space Staff, Contractor	

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. If needed 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, TWP Open Space Staff, Contractor
	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. If needed 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, TWP Open Space Staff, Contractor
		Maintain buildings as needed following maintenance guidelines.	Ongoing	Buildings and Grounds Manager
	Maintain Building	Ensure shop bay heaters annual inspection and maintenance is included in annual maintenance contract.	Annually	Buildings and Grounds Manager
		Inspect and maintain garage doors.	2021, Biannually	
		Replace office furnace and water heater.	2021-22	
		Ensure roof annual inspection and maintenance is included in annual maintenance contract.	2021	
	Maintain Lighting	Ensure exterior building lighting is functional for user safety.	Weekly	Buildings and Grounds Manager
		Install and maintain building exterior lighting.	2021	
		Inspect and repair fencing as necessary.	Annually	
	Maintain Fencing	Inspect and repair fencing as necessary.	Annually	Buildings and Grounds Manager, Contractor
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.	2021		

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Winchester Road (Soccer Complex)

Updated: March, 2021

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, Wetland	Monitor	Ensure that the license agreement is being followed and board approved. Guarantee access to property (receive gate code).	Monthly	Supervisor, 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 long term maintenance needs and key personnel regarding Technology Way road.	As Needed	Supervisor, 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.	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.	Ongoing	Supervisor, TWP Open Space Staff
		Maintain	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 and marking the North and West property boundaries as needed.	2025	Supervisor, TWP Open Space Staff, 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.	Monthly	TWP Open Space Staff
		Monitor drainage ways, SE corner berm drainage, drainage from artificial turf field, and detention areas especially after rain events. Photo document conditions.	As Needed	TWP Open Space Staff
B. Riparian Corridor, Wetland	Restore	Seek and apply for restoration grants targeting wetland and riparian areas (WNMB, 319).	Ongoing	Supervisor, TWP Open Space Staff
		Conduct a large scale herbicide application targeting phragmites	2022	Supervisor, TWP Open Space Staff, Contractor