



**LIBERTYVILLE TOWNSHIP**

**Open Space**

**Site Management Plans**

**Completed Year End 2020**

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Atkinson Road

Updated: November, 2020

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Trail, Oak Hickory Woodland, Mifigation 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
		Ensure Carlsonie 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
			2020	TWP Open Space Staff
	2021	Contractor		
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	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
	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. Continue communications with the INPC for possible Nature Preserve dedication.	Ongoing	TWP Open Space Staff Supervisor, TWP Open Space Staff Supervisor, Illinois Nature Preserve Commission (INPC)
A. Oak Hickory Woodland, Trail	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
	Document	Photo document regeneration of native vegetation.	Spring & Fall	TWP Open Space Staff
B. Mitigation Bank, Trail	Maintain	Cut and herbicide re-sprouts as needed.	Ongoing	
		Implement burn plan.	2021	
	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. Keep drainages and culverts free flowing and free of obstructions.	Ongoing	TWP Open Space Staff
			As needed	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

## Site Name: Butterfield Road (Canterbury)

Updated: November, 2020

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 hibernaculum, 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, everters, 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	
A. North Prairie, Wetlands, Mowed Park Lots, Trail	Restore	As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INDC guidelines. 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	
		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	Ongoing	Supervisor, TWP Open Space Staff	
		Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	Ongoing	TWP Open Space Staff	
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	Supervisor, TWP Open Space Staff	
		Provide information and outreach to neighboring homeowners, homeowner associations, local horse stables, and the public of management direction, upcoming projects, volunteer opportunities, and status 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
		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.	Annually	TWP Open Space Staff		
	Inter-seed in herbicided and burned areas with native short grass prairie species, plant trees and shrubs as funding becomes available.	2021	TWP Open Space Staff		
Maintain	Trim and prune planted trees. Remove dead ash trees as needed.	Annually			



Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
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	Continue initial clearing and herbiciding of invasive trees.	2020-21	
		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.	2019	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
Monitor	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 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	
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 (LCSSMC) plan. Seek grant opportunities for restoration.	Ongoing	TWP Open Space Staff
		Remove logs/jams identified in 2018. Clear access points for debris removal and disposal.	2020-21	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
	Maintain	Continue initial clearing and herbiciding of invasive trees.	2021	TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Casey North (Oak Openings Buffer, 2017 Almond Marsh Buffer, 2018 Section 319 Grant)

Updated: November, 2020

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 blackbird 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, kiosks, 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
		Continue communications with Village of Graylake, 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
		Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross-country skiing, horseback riding, etc.	Ongoing	Supervisor, TWP Open Space Staff
A. Restored 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.	2021	
		Continue restoration of hedgerow #3 including tree removal and rock pile removal.	2021-22	TWP Open Space Staff
		Evaluate need to resurface gravel parking lot.	2025	
Maintain		Conduct follow up treatments to areas already cleared of invasives in hedgerow.	Ongoing	



Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
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	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	Annually	TWP Open Space Staff, Volunteers
		Prescribe burn in accordance with burn plan.	2021	
D. Mesic Oak Woodland (Oak Openings Buffer)	Restore	Monitor trail erosion near underpass and complete trail improvements to alleviate erosion and water issues if needed.	Ongoing	TWP Open Space Staff
		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
E. Mesic Oak Woodland (Oak Openings Buffer)	Restore	Conduct follow up treatments to areas already cleared of invasives.	Ongoing	TWP Open Space Staff
		Mow grass foot path as needed on Township property.	Monthly	
		Control invasives: reed canary grass, bromes, Canada thistle, galle-nutstand, buckthorn and dunes rocket.	Annually	TWP Open Space Staff, Volunteers
		Prescribe burn in accordance with burn plan.	Spring 2021	
F. Savanna (Oak Openings Buffer)	Restore	Control invasives: Canada thistle, reed canary grass, multiflora rose and bromes.	Annually	TWP Open Space Staff
		Prescribe burn in accordance with burn plan.	2020	TWP Open Space Staff, Volunteers
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	TWP Open Space Staff
		Remove rock pile.	2021-22	
G. Retired Agriculture Field, Walnut Grove (Almond Marsh Buffer)	Restore	Conduct follow up treatments to areas already cleared of invasives.	Ongoing	TWP Open Space Staff
		Remove rock pile.	2021-22	
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	TWP Open Space Staff
		Remove rock pile.	2021-22	

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.	2020	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 are to be raised in the winter and lowered in the spring.	Seasonally	TWP Open Space Staff
		As farm license expires (12-31-2020), continue to review license and explore restoration opportunities outlined in the Board approved Casey-Road Land Use Plan.	Summer 2020	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 11-30-2020).	Spring 2020	Supervisor, Trustees, TWP Open Space Staff
		Install and Maintain INPC boundary signage.	2021	TWP Open Space Staff
K. Restored Agricultural Field (Almond Marsh Buffer)	Monitor	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	
		Monitor the progress of the Donnelly oak tree planting and maintain as needed.	Annually	TWP Open Space Staff
		Maintain boundary signage: Cassette survey markers, Open Space signage and INPC signage.	Ongoing	
L. Restored Agricultural Field (Almond Marsh Buffer)	Restore	Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans.	2020-21	TWP Open Space Staff, Volunteers
		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	Ongoing	TWP Open Space Staff
M. Agriculture Field	Restore	Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans.	2020-21	TWP Open Space Staff, Volunteers
		Interseed as needed.	2021	TWP Open Space Staff
		As farm license expires (12-31-2020), continue to review license and explore restoration opportunities outlined in the Board approved Casey-Road Land Use Plan.	Summer 2020	Supervisor, Trustees, 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.	Ongoing	Supervisor, Openlands, TWP Open Space Staff
N. Agriculture Field	Restore	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
		As farm license expires (12-31-2020), continue to review license and explore restoration opportunities outlined in the Board approved Casey-Road Land Use Plan.	Summer 2020	Supervisor, Trustees, 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.	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
O. Agriculture Field (2018 Section 319 Grant)	Monitor	Review inholding ingress and egress easement (diverter).	As needed	Supervisor, TWP Open Space Staff
		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
		Install and maintain boundary signage, INPC signage, etc.	Ongoing	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
O. Agriculture Field (2018 Section 319 Grant) (continued)	Restore	<del>Plant plugs in waterways-</del>	Spring 2020	TWP Open Space Staff, Volunteers
		Complete maintenance and documentation activities as described in the Section 319 O&M plan in the Spring and Fall. Submit to IGSMC.	2020-30	TWP Open Space Staff
		<del>Mow as needed.</del>	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
		Document	Complete maintenance and documentation activities as described in the Section 319 O&M plan in the Spring and Fall. Submit to SMG. Photo document restoration progress using C.R.R. Phase 1 Photo Point Log in growing season.	2020-2030 2019-21
Communicate	Continue communication with IGSMC, ICFPD, 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, Donnelley Prairies and Oaks Buffer)

Updated: November, 2020

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 Seep, Sedge Meadow, Trail Monitored Species: Slender Bog Arrow Grass, Fringed Gentian, Grass of Pannassus, Bluebirds, Butterflies, Frogs.	Monitor	Obtain species monitoring results. Slender Bog Arrow Grass, Fringed Gentian, Grass of Pannassus, 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
		Seal coat 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 NIPG 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 NIPG 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		
A: Graminoid Fen	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 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.	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		
		Continue communications with INPC and LCFPD.	Ongoing	Supervisor, TWP Open Space 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	
		Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross-country skiing, horseback riding, etc.	Ongoing	
		Restore	Conduct prescribed burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
		Monitor	Control invasives: reed canary grass, cattails, purple loosestrife, oriental bittersweet and multiflora rose.	Ongoing	
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			

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
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
		<del>Control invasives: reed canary grass, purple loosestrife, Canada thistle, grey dogwood, buckthorn, and phragmites.</del>	Annually	
		Collect and interseed in accordance with INPC seed collecting protocol.		
		Conduct large scale herbicide project to control wetland invasives such as phragmites, catrills and reed canary grass.	As needed	Contractor, TWP Open Space Staff
C. Restored Prairie	Restore	<del>Conduct follow up treatments to areas already cleared of invasives. Spot mow areas of woody outbreaks as needed.</del>	Ongoing	TWP Open Space Staff
		<del>Monitor plants of concern and document.</del>	Annually	Volunteers
		Conduct prescribed burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
D. Sedge Meadow	Restore	<del>Control invasives: reed canary grass, purple loosestrife, Canada thistle, grey dogwood, buckthorn, and oriental bittersweet.</del>	Annually	
		Spot mow areas of woody outbreaks as needed.	As needed	TWP Open Space Staff
		Conduct prescribe burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
		<del>Control invasives: reed canary grass, catrills, and phragmites.</del>	As needed	
E. Riparian Corridor	Restore	Conduct large scale herbicide project to control wetland invasives such as phragmites, catrills and reed canary grass.	As needed	Contractor, TWP Open Space Staff
		<del>Control invasives: galle mustard, reed canary grass, oriental bittersweet, brome, dames rocket, clover, and buckthorn.</del>	Annually	TWP Open Space Staff
		Conduct follow up treatments. Continue to gridle cottonwoods.	Ongoing	
		Interseed cleared areas with seed collected on site.	Ongoing	
		<del>Continue clearing of invasives working east towards property line.</del>	2019-20	
		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, catrills and reed canary grass.	As needed	Contractor, TWP Open Space Staff
		<del>Control invasives: Canada thistle and reed canary grass.</del>	Annually	TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
G. Retired Agriculture Field	Restore	Control reed canopy, grass, buckthorn, teasel, clover, brome, and dandelion weeds.	Annually	TWP Open Space Staff
		Complete full restoration: herbicide application, burn, native seed.	2021	
		Continue clearing of invasives working east towards property line.	2019-20	
		Interseed in fall after burns with collected seed on site.	2021	TWP Open Space Staff, Volunteers
H. Woodland, Remnant Prairie, Restored Prairie	Restore	Conduct prescribe burn in accordance with the burn plan.	2021-22	
		Conduct prescribe burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
		Interseed with collected seed from site.	2021	
		Continue clearing of invasives working east towards property line.	2019-20	
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
I. Hillside Seep	Restore	Control invasives: purple loosestrife, cattails, willow.	Annually	TWP Open Space Staff, Volunteers
		Conduct prescribed burn in accordance with the burn plan.	2021	
J. Sedge Meadow	Monitor	Monitor and control invasive outbreaks.	As Needed	TWP Open Space Staff
K. Restored Agriculture Field	Restore	Continue to control invasives.	Annually	
		Conduct prescribed burn in accordance with the burn plan.	2021	TWP Open Space Staff, Volunteers
		Begin clearing of invasives along northern property line hedgerow.	2025	TWP Open Space Staff
L. Bottomland Successional Woods (2017 Donnelley Prairie and Oaks Buffer)	Monitor	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
		Continue restoration as outlined in the SMC plan, Casey Road Land Use Plan, Liberty Prairie Master Plan, 2011 Hay & Assoc. proposal.	2025	Supervisor, TWP Open Space Staff
M. Impoundment (2017 Donnelley Prairie and Oaks Buffer)	Restore	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
		Conduct prescribed burn in accordance with the burn plan.	2020	TWP Staff, Volunteers
		Continue initial clearing of trees and brush.	2021-22	TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of invasives (2017- Riparian Corridor Clearing).	Ongoing	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
M. Impoundment (2017 Donnelley Prairie and Oaks Buffer) (continued)	Restore (continued)	Control invasives: reed canary grass. Install and maintain signage.	Ongoing 2021	TWP Open Space Staff
	Signage			
N. Restored Agriculture Fields, Access Drive, Stockpile Area (2017 Donnelley Prairie and Oaks Buffer)	Monitor	Photo document restoration progress using C.R.R. Phase 1 Photo Point <del>Log in growing season.</del> Monitor for invasive outbreaks. Take action as necessary. Conduct seed establishment monitoring following C.R.R. Phase 1 protocol.	2019-21 2019-21 2021	TWP Open Space Staff, Volunteers
	Restore	Obtain volunteer species (fogs, bird, butterfly) monitoring results. Post results to website.	Annually	TWP Open Space Staff, Supervisor
		Mow as needed.	2019-20	TWP Open Space Staff
		Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans.	2020-21	TWP Open Space Staff, Contractor
		Perform follow-up treatments to areas previously cleared of invasives.	Ongoing	TWP Open Space Staff
		Interseed as needed.	2021	
O. Retired Pasture	Monitor	Locate and review ingress/egress easement. Obtain information related to the deep well monitoring station if necessary.	Annually Ongoing	TWP Open Space Staff, Supervisor TWP Open Space Staff
	Restore	Continue to control invasives.	Annually	
		Conduct follow-up treatments to areas already cleared of woody invasives.	Ongoing	
		Conduct prescribed burn in accordance with the burn plan.	2020	TWP Staff, Volunteers
P. Restored Agricultural Field (2017 Donnelley Prairie and Oaks Buffer)	Monitor	Install seed, trees, shrubs, and plugs that meet INPC specs as funds become available and when appropriate.	As needed	TWP Open Space Staff
		Maintain planting by mowing, burning, treating invasives.	2020	
		Photo document restoration progress using C.R.R. Phase 1 Photo Point <del>Log in growing season.</del> Monitor for invasive outbreaks.	2019-21 2019-21	TWP Open Space Staff, Volunteers
		Conduct seed establishment monitoring following C.R.R. Phase 1 Protocol.	2021	
	Document	Obtain volunteer species (fogs, bird, butterfly) monitoring results. Post results to website.	Annually	TWP Open Space Staff, Supervisor



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

Site Name: Kildare

Updated: November, 2020

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 Catsonic 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 directions 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	<del>Ensure</del> <del>Carsonite</del> <del>marking</del> <del>posts</del> , <del>border</del> <del>signs</del> , <del>fencing</del> <del>and</del> <del>any</del> <del>other</del> <del>line</del> <del>markers</del> <del>are</del> <del>in</del> <del>place</del> , <del>in</del> <del>good</del> <del>condition</del> , <del>and</del> <del>replace</del> / <del>repair</del> <del>if</del> <del>needed</del> .	Every Other Month	TWP Open Space Staff
		<del>Monitor</del> <del>erosion</del> <del>at</del> <del>HQA</del> <del>culvert</del> <del>outflow</del> <del>and</del> <del>take</del> <del>appropriate</del> <del>action</del> <del>when</del> <del>needed</del> .	Ongoing	
		Install rip-rap at HOA culvert outflow as needed.	As needed	
B. Wooded Riparian Corridor	Monitor	<del>Keep</del> <del>drainage</del> <del>free</del> <del>flowing</del> <del>and</del> <del>free</del> <del>of</del> <del>obstructions</del> . <del>Continue</del> <del>to</del> <del>follow</del> <del>recommendations</del> <del>outlined</del> <del>in</del> <del>the</del> <del>Lake</del> <del>County</del> <del>Serra</del> <del>Water</del> <del>Management</del> <del>plan</del> .	Annually	TWP Open Space Staff
		Seek grant opportunities for restoration. Seek opportunities for volunteer workdays.	Ongoing	
C. Ingress/ Egress Easement	Monitor	Review and monitor ingress/egress easement.	As needed	Supervisor, TWP Open Space Staff
		<del>Locate</del> <del>and</del> <del>review</del> <del>agreement</del> <del>for</del> <del>maintenance</del> <del>of</del> <del>mowed</del> <del>area</del> .	Ongoing	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Lindholm Park

Updated: November, 2020

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	
Maintain	Provide and maintain amenities including but not limited to: the trail, ballasts, Knox boxes, benches, trash cans, birdhouses, dog waste centers, eutrets, 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		
Restore	Evaluate the need to herbicide and/or fertilize turf grass.	2021	Contractor	
	Seal coat sidewalks every two years or as needed.	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.	As needed	TWP Open Space Staff, Volunteers		
		Whenever possible create habitat for wildlife. This includes dead trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing			
		Explore and provide opportunities for volunteers.	Ongoing	TWP Open Space Staff		
		Incorporate 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, local horse stables, and the public of management direction, upcoming projects, volunteer opportunities, and titles of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff		
		Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross-country skiing, etc.	Ongoing			
		Site Survey	2023	Contractor, TWP Open Space Staff		
		Maintain (Infield)	2020	TWP Open Space Staff		
		A. Athletic Fields Infield, Outfield	Maintain (Infield)	Evaluate the need for surface conditioners.	Seasonally	Contractor, TWP Open Space Staff
Drag field weekly as weather permits.	2022			Contractor, TWP Open Space Staff		
Hire contractor for major retrofits including adding of clay and conditioner every two years or as needed.	Annually			TWP Open Space Staff, Contractor		
Herbicide common herbaceous staff weeds including clover, dandelion, creeping charlie, and chickweed.	Seasonally			TWP Open Space Staff		
Inspect outfield every week during ball season for holes, divots and depressions. Repair or flag immediately and log repairs on inspection form.	2021					
Communication	As Needed					
Install kiosk for posting ballfield permits and schedule.	April & October			TWP Open Space Staff		
B. Playground	Inspect			Install seasonal and temporary field closure signage.	As needed	
				Complete inspection, fill out inspection form and repair deficiencies immediately.	As needed	
	Maintain			Add playground approved woodchips to recommended levels.	As needed	
		Prepare to remove the remaining ash trees and replace with native plant material.	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	
		Prescribe burn in accordance with burn plan.	2021	TWP Open Space Staff
		Herbicide invasives: Canada thistle, teasel and buckthorn.	Ongoing	
	Monitor	Continue to monitor storm water runoff and potential erosion into Wilmer Woods Forest Preserve.	Ongoing	Supervisor, TWP Open Space Staff, LCFPD

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Milwaukee Avenue

Updated: November, 2020

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	<del>Check and document boundaries and encroachments. Update            encroachment inventory as needed.</del>	Ongoing	TWP Open Space Staff	
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustees	
		<del>Make sure rules and ownership signs are in place to ensure visitor safety.</del>	Ongoing	TWP Open Space Staff	
		<del>Conduct regular site inspections and document current conditions in the            inspection log.</del>	Every Other Month	TWP Open Space Staff	
		<del>As farm licenses expire continue to evaluate license and restoration            opportunities.</del>	Ongoing	Supervisor, Trustees, Advisory Committee, TWP Open Space Staff	
		<del>Monitor and discuss long term maintenance needs and key personnel            regarding Milwaukee Road sidewalk.</del>	As needed	Supervisor, TWP Open Space Staff	
		<del>Erase Carsonite marking posts, border signs, fencing and any other line            markers are in place, in good condition, and replace/repair if needed.</del>	Monthly	TWP Open Space Staff	
		<del>Line trim, herbicide weeds and pick up litter along Milwaukee Rd.            sidewalk (Casey Rd. to Janaa Ct) and access gate.</del>	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, Openlands, 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.	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.	Ongoing	TWP Open Space Staff, Volunteers
		Whenever possible create habitat for wildlife. This includes dead 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 Openlands.	Ongoing	TWP Open Space Staff, LCFPD, Openlands
Document	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
		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	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	2021	Supervisor, Contractor
		Install ownership signs along Milwaukee Avenue in conjunction with restoration activities.	As needed	TWP Open Space Staff
A. Restored Short Grass Prairie	Monitor	Conduct a vegetative survey.	2022	TWP Open Space Staff, LCFPD, Contractor
		Restore	2021	TWP Open Space Staff, Volunteers
		Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	2021	TWP Open Space Staff, Volunteers
B. Agriculture Field	Review farm license	Control invasive species: white sweet clover, reed canarygrass, canada thistle, woodies	Ongoing	TWP Open Space Staff
		As farm license expires (12/31/2020), continue to evaluate license and restoration opportunities as per the Casey Road Land Use Plan.	Summer 2019	Supervisor, Trustees, Advisory Committee, TWP Open Space Staff
		Seek grant opportunities	Ongoing	Supervisor, Openlands, TWP Open Space Staff
C. Wooded Riparian Corridor	Monitor	Seek and apply for restoration grants to restore native riparian community.	Ongoing	Supervisor, Openlands, TWP Open Space Staff
		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
	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	Review farm license	Review and evaluate farm license as license expires (5-31-2022).	Spring 2022	Supervisor, Trustees, TWP Open Space Staff
H. Grass Filter Strip	Restore	Mow and herbicide to reduce invasive plant populations as needed.	As needed	TWP Open Space Staff
I. Drainage Ditch	Restore	Seek engineering services.	2020	Supervisor, TWP Open Space Staff, Engineer, Contractor
		Reconstruct ditch to functioning conditions.	2020	TWP Open Space Staff, Contractor
		Install protective culvert grates/trash racks.	2020	
		Plant native species.	2020	
		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: November, 2020

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Woodland, Lowland Woods, Floodplain	Monitor	<del>Check and document boundaries and encroachments. Update encroachment inventory as needed.</del> Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff
		<del>Make sure all trail, stakes, and ownership signs are in place to ensure visitor safety.</del> Conduct regular site inspections and document current conditions in the inspection log.	Ongoing	TWP Open Space Staff, Supervisor, Trustees
		<del>Conduct a vegetative survey in June.</del>	2022	Contractor, TWP Open Space Staff
		<del>Ensure Carsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.</del>	Monthly	TWP Open Space Staff
		<del>Remove debris from creek to allow water to remain free flowing. Continue to follow recommendations outlined in the Lake County Stormwater Management Plan.</del> Stabilize stream banks to prevent undercutting.	Seasonally	
		<del>Restore</del>	As needed	
		<del>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.</del> Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	Annually	TWP Open Space Staff, Volunteers
		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.	Ongoing	TWP Open Space Staff, Volunteers
<del>Conduct follow-up control of invasives.</del>	Ongoing			



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
	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	TWP Open Space Staff Supervisor, TWP Open Space Staff
A. Woodland	Restore	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 2020	
B. Lowland Woods	Restore	Control invasives: Buckthorn, burning brush, 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 2020	
C. Floodplain	Restore	Control invasives: Buckthorn, burning brush, 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 2020	
		Control invasives: Buckthorn, burning brush, phragmites.	Annually	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: River Road

Updated: November, 2020

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.	Winter Spring 2021	Supervisor, TWP Open Space Staff
		Easement easement 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, bellhows, trailhead fencing, Knox boxes, benches, trash cans, birdhouses, dog waste centers, euhverry, 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, barriacades, etc. immediately upon discovery.	Weekly	
		Evaluate and sealcoat asphalt trailheads every two years.	2021	
	Maintain wire gate farm access point.	Annually	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

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 Easement	Monitor	Review and monitor Getz One easement. 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
	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
C. Woodland	Restore	Keep drainage free flowing and free of obstructions.	Ongoing	TWP Open Space Staff
		Evaluate the need for interseeding.	2021	
		Prescribed burn in accordance with the burn plan.	2021	
		Maintain restoration signage.	Until 2020	
D. Wetland	Restore	Explore possibilities of restoration.	Ongoing	Supervisor, TWP Open Space Staff
E. Paddocks	Monitor easement	Review and monitor 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.	Until 2021	TWP Open Space Staff
		Mentor 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. <del>Mow as needed to prevent weed growth and woody establishment.</del> <del>Mow as needed to prevent weed growth and woody establishment.</del>	Annually Ongoing	TWP Open Space Staff

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Rt. 45

Updated: November, 2020

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
	Maintain	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	
		Erase 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, 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).	Ongoing	TWP Open Space Staff
		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
		Provide passive recreational opportunities when possible.	Ongoing	
Recreation				
Restore	Follow-up control of invasives such as buckthorn, thistle, reasel, reed-canary grass, etc.	Annually	TWP Open Space Staff	
	Re-introduce pre-settlement fire regime. Develop, implement and evaluate burn plans. When possible plan in conjunction with easement holder.	2021	TWP Open Space Staff, Easement Holder	



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.	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.	2022	LCFPPD, TWP Open Space Staff
B. Abandoned Nursery	Restore	Provide information and outreach to neighboring homeowners, homeowner associations, local horse stables, and the public of management direction, upcoming projects, volunteer opportunities, and titles of Township Open Space.	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
C. Bott Easement	Communication	Continue communication updates on land use, restoration and/or grant opportunities with interested parties.	Ongoing	
		Stay in contact with easement holder regarding Township restoration activities.	Annually	TWP Open Space Staff, Supervisor, Easement Holder
		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: November, 2020

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.	2019-2020	TWP Open Space Staff, Lake County Audubon
		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
Maintain	Restore	Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, memorial plaques, trash cans, birdbhouses, dog waste centers, culverts, moved trail edges, hooks, etc.	Ongoing	
		Evaluate and sealcoat asphalt trail sections every two years.	2021	
		Seek and apply for restoration grants targeting wetland and riparian areas (WVAB, 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
	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	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	Supervisor, TWP Open Space Staff
	Site survey	Survey and mark property boundaries.	2020	Supervisor, Surveyor, TWP Staff
A. Agriculture field	Bull Creek Trail	Install boardwalk tripp.	As needed	TWP Open Space Staff
		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	TWP Open Space Staff
		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 (10-31-19).	Spring 2019	Supervisor, TWP Open Space Staff
		Evaluate opportunities to restore hay fields along ComEd R.O.W. to short grass prairie and remove hedgerow.	2025	
		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 Open Space Staff
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2020	Contractor, TWP Open Space Staff
B. Wetland		Conduct a large scale herbicide project focusing on phragmites and reed canarygrass.	2020	
		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.	2020-21	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
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
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2020	Contractor, TWP Open Space Staff
E. Abandoned Nursery	Restore	Continue initial clearing and herbiciding of invasive trees adjacent to trail corridor.	2020-21	TWP Open Space Staff
		Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	

# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: St. Mary's Road

Updated: November, 2020

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, ICFPPD, Contractor
		Conduct bid process for drainage ditch reconstruction, monitor construction, communicate with neighbors, Highway Department and permitting authorities.	2020	Supervisor, TWP Open Space Staff, Engineer
		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, euhverts, mowed trail edges, etc.	Ongoing	
		Evaluate and sealcoat asphalt trailheads every two years.	2021	
		Maintain and mow grass, trim trees, muleh, 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			



Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Maintain (continued)	Complete engineering contract and engineering recommendations as outlined by Pearson Brown for portions of the drainage ditch in Unit A and C.	2020	Supervisor, TWP Open Space Staff, Engineer
		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	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	
		Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	2020	TWP Open Space Staff, Volunteers
Document		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 dead trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	
Communication		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 parcel when possible during various seasons and during different phases of a given project (before and after).	Ongoing	TWP Open Space Staff
Recreation		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
		Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, horseback riding, etc.	Ongoing	
Restore		Conduct follow up treatments to areas previously cleared of invasives. Control invasives using herbicide.	Annually	TWP Open Space Staff
		Prescribe burn in accordance with burn plan.	2020	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. Seek grant opportunities for restoration especially the WVA/B grant.	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	<del>Prescribe burn in accordance with burn plan.</del>	2020	TWP Open Space Staff, Volunteers
		Conduct follow-up treatments to previously cleared area. Control invasives using herbicide.	Annually	TWP Open Space Staff
	Monitor	During/after rain events check dry basins to ensure they are fully functional.	As needed	
C. Savanna, Prairie	Restore	Conduct follow-up treatments to areas previously cleared of invasives.	Ongoing	TWP Open Space Staff
		Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	2020	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: November, 2020

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 sidewalks, 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.	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
		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

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Document	Include current and long term management direction into Township site management plans, documentation, and all other pertinent information.	Ongoing	Buildings and Grounds Manager, TWP Open Space Staff, Supervisor
		Develop and update building maintenance log and guidelines. Log salt and herbicide use for AFS4 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.		
		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	As needed	Buildings and Grounds Manager
		Add screenings and roll footpath to provide a safe means of travel. Herbicide footpath edges to prevent weeds from growing into path.		
	Maintain Visitor Amenities	Sand, paint and seal picnic tables and benches as needed.	Ongoing	
		Maintain sign along Winkeshet road.	Ongoing	
		Prune trees and shrubs to allow for clear view of signage and beautify nearby landscaping.	Seasonally - Winter	
B. Township Offices and Grounds, Sidewalks, Parking Lot	Maintain Building Appearance	Maintain buildings as needed following maintenance guidelines.	Ongoing	Buildings and Grounds Manager, TWP Open Space Staff
		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
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 Landscaping	Ongoing	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
C. Parking Lot and Grounds, Sidewalks, Mowed Lot (continued)	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 Building	Maintain buildings as needed following maintenance guidelines.	Ongoing	Buildings and Grounds Manager
	Maintain Lighting	Ensure exterior building 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.	2021	Buildings and Grounds Manager, Contractor



# Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Winchester Road (Soccer Complex)

Updated: November, 2020

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. <del>Guarantee access to property (receive gate code).</del>	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 Carstone 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). <del>Conduct regular site visits.</del>	As Needed	Supervisor
		Monitor drainage ways, SE corner berm drainage, drainage from artificial turf field, and detention areas especially after rain events. Photo-document conditions.	Monthly	TWP Open Space Staff
B. Riparian Corridor, Wetland	Restore	Seek and apply for restoration grants targeting wetland and riparian areas (WVMB, 319). Conduct a large scale herbicide application targeting phragmites	Ongoing 2021	Supervisor, TWP Open Space Staff Supervisor, TWP Open Space Staff, Contractor