

PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt Loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to the drainage swale to the south.

Infrastructure modifications or flow diversions required for retrofit:

Install storm sewer & ditch to convey flows from CTH "JJ" storm sewer to pond. Divert existing dry pond into wet pond.

Site access for future BMP maintenance:

Good. Access from Hummock Dr or Joan St.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, drain tile, groundwater

Approx. Size of BMP Retrofit:

0.47 acre permanent pool

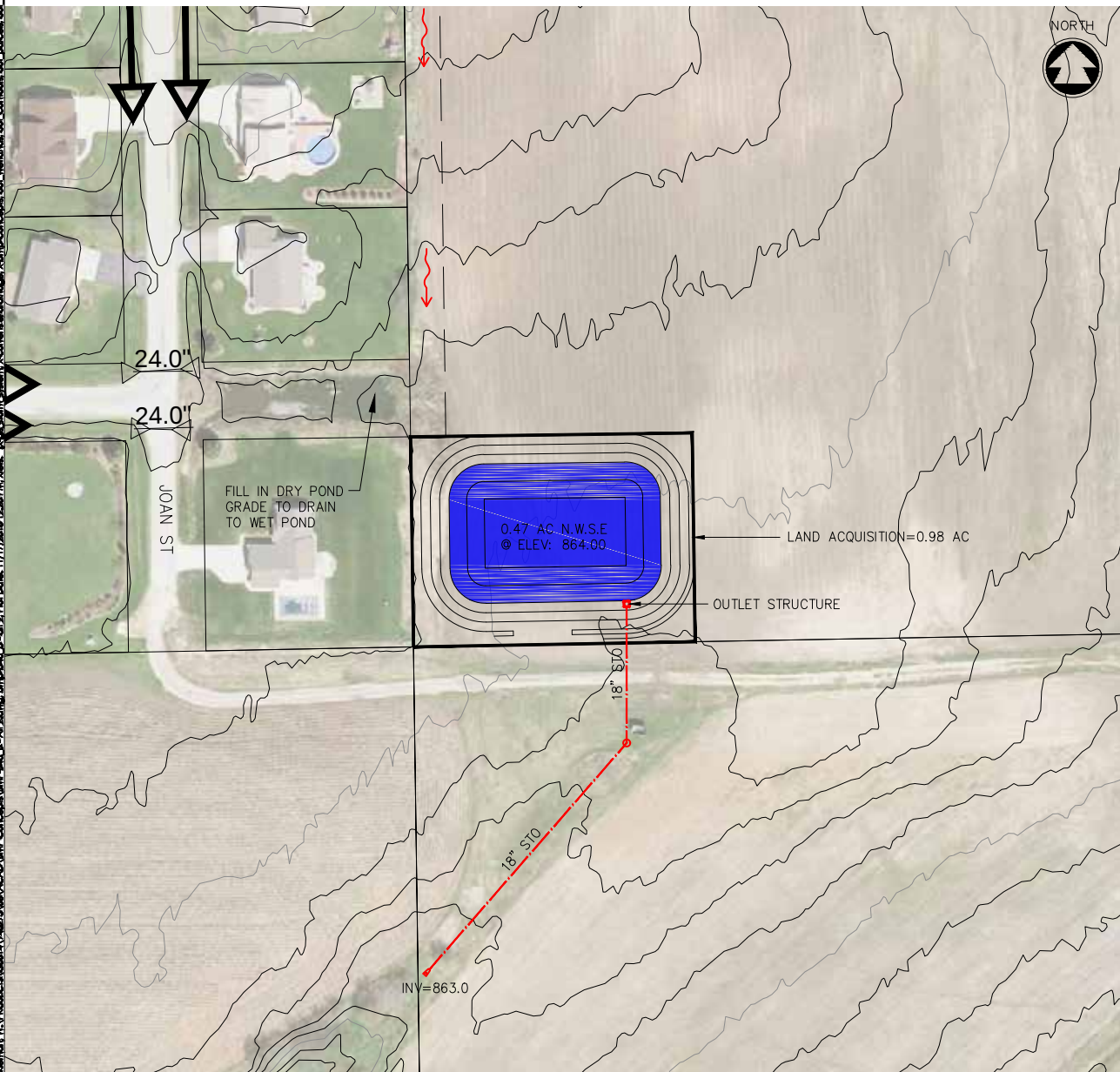
Approx. Land Required (ac):

0.98 acres

Estimated Cost:

\$325,800

Sketch of Proposed BMP Retrofit:



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-B4I

McM PROJECT NO: G0014-9-14-00273

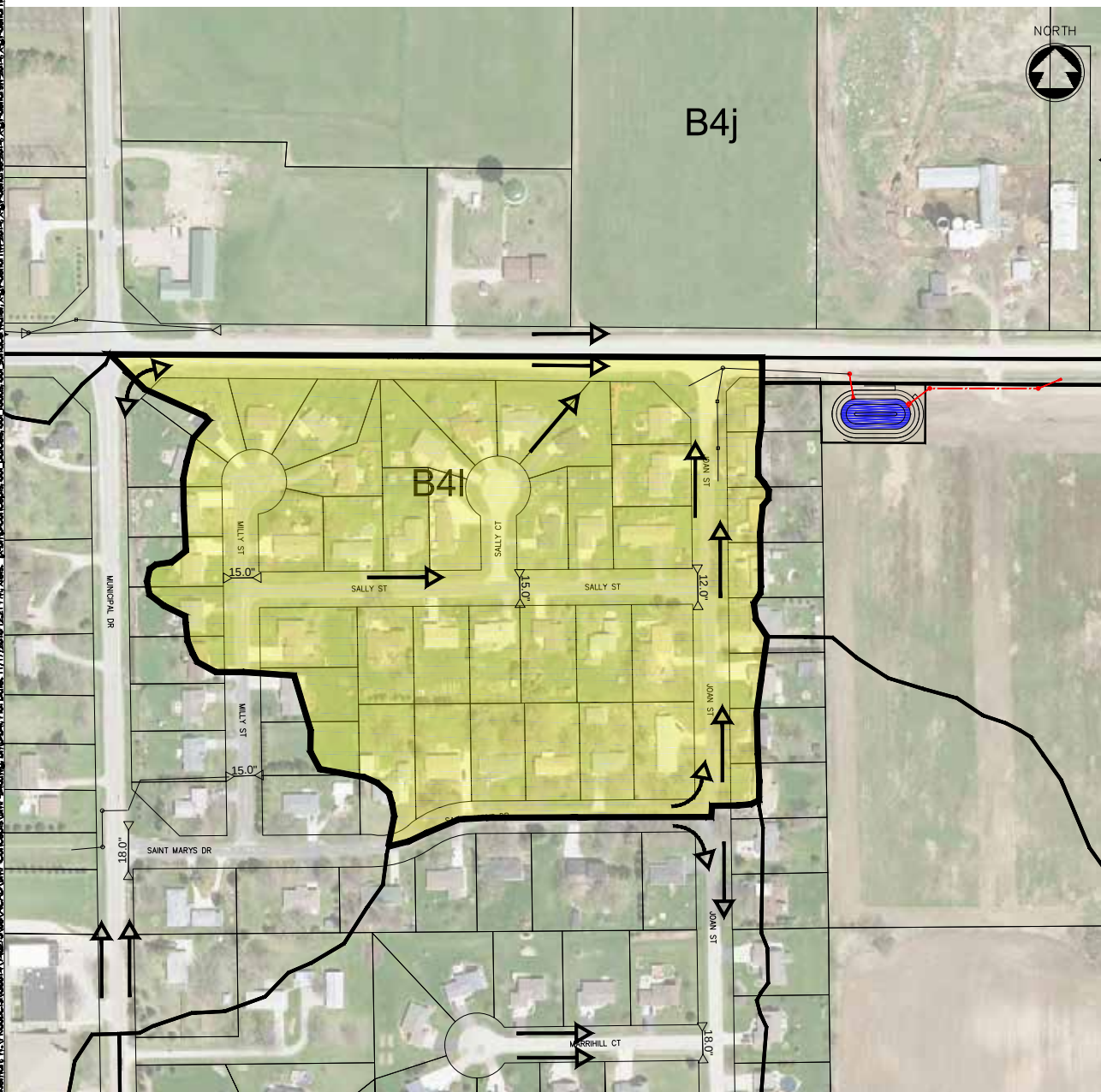
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: NORTH GREENVILLE POND	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: BEAR CREEK	Tributary Drainage Area IDs: B4I	Total Drainage Area: 19.4 acres
Imperviousness (Future): 38.6 %	Runoff Curve Number (Future): 83	Water Quality Volume (Future): 1.0 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): 0-1 ft
Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to the south ditch of CTH "JJ".

Infrastructure modifications or flow diversions required for retrofit:

Divert CTH "JJ" storm sewer outfall into pond via storm sewer.

Site access for future BMP maintenance:

Good. Access from CTH "JJ".

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, drain tile, possible utility conflicts along CTH "JJ".

Approx. Size of BMP Retrofit:

0.15 acre permanent pool

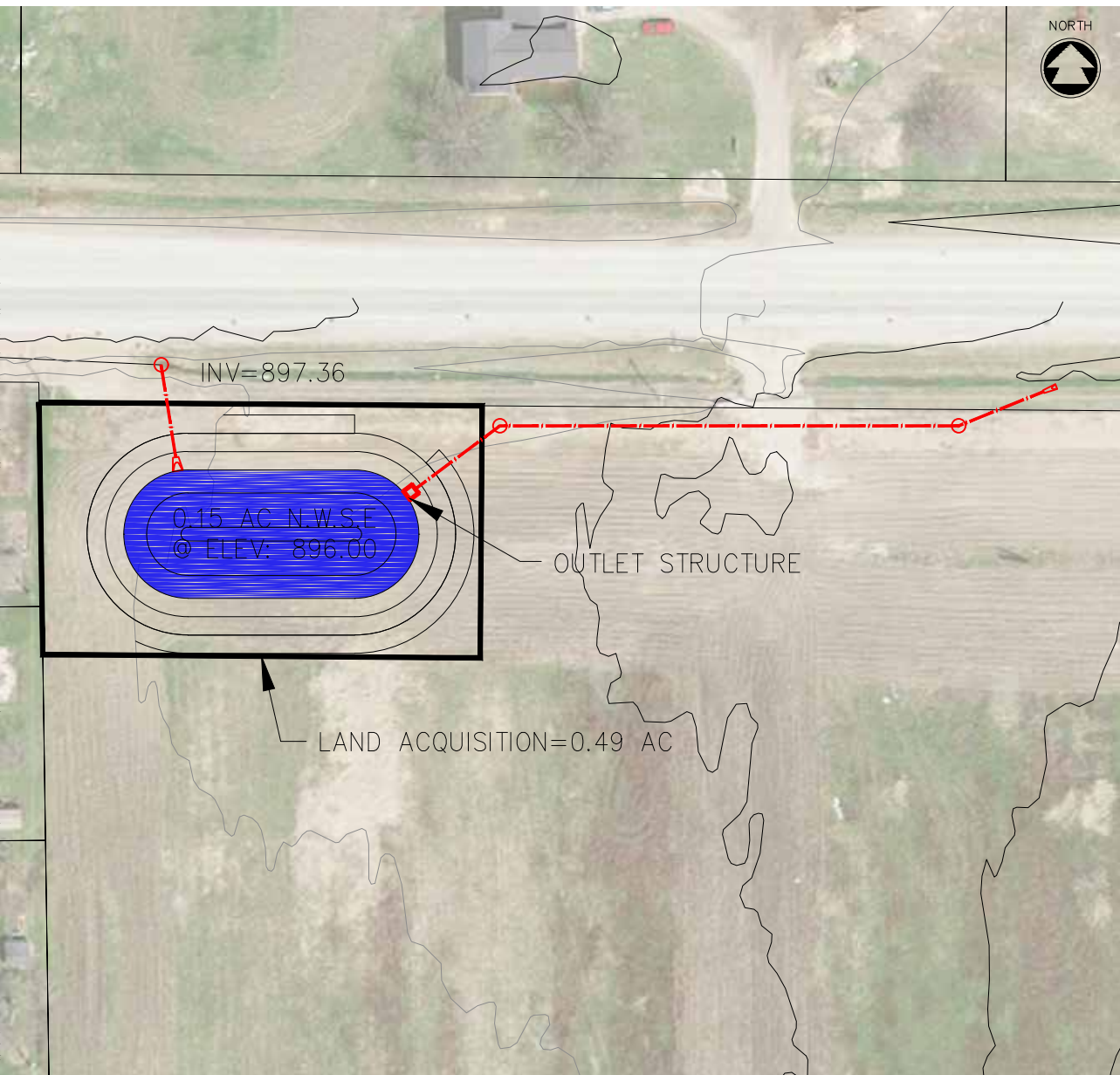
Approx. Land Required (ac):

0.49 acres

Estimated Cost:

\$106,000

Sketch of Proposed BMP Retrofit:



POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-B6g

McM PROJECT NO: G0014-9-14-00273

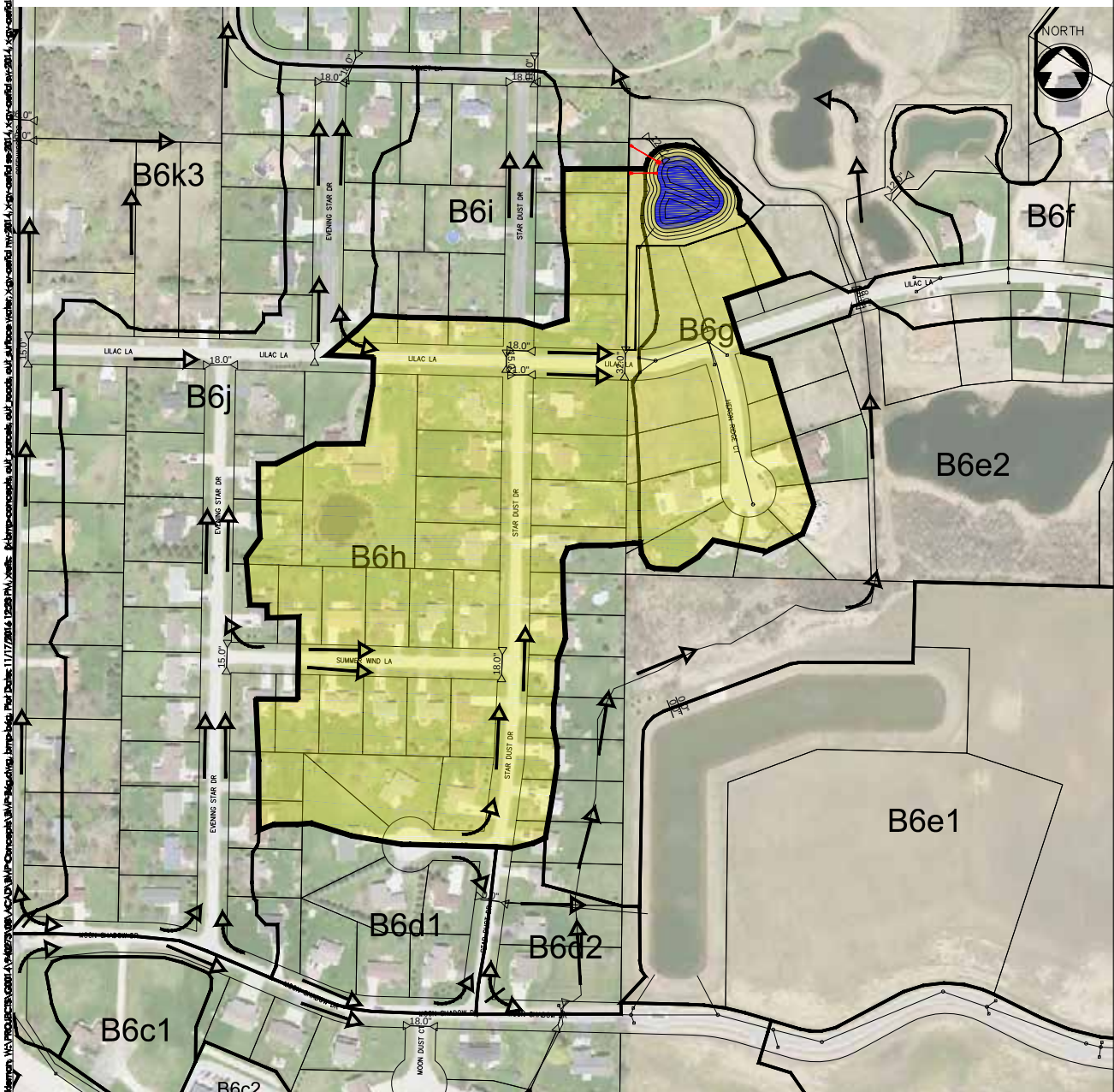
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: THE PONDS AT MAPLE SPRINGS - WEST POND MODIFICATION	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: BEAR CREEK	Tributary Drainage Area IDs: B6h, B6g	Total Drainage Area: 23.8 acres
Imperviousness (Future): 29.0 %	Runoff Curve Number (Future): 81	Water Quality Volume (Future): 0.9 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☒ Yes ☐ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to the northwest to the existing swale.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from swale along west side into pond via storm sewer. Lower permanent pool & installing new outlet structure & pipe.

Site access for future BMP maintenance:

Good. Access site from Lilac Ln.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands; floodplain; existing ditch grades.

Approx. Size of BMP Retrofit:

0.40 acre permanent pool

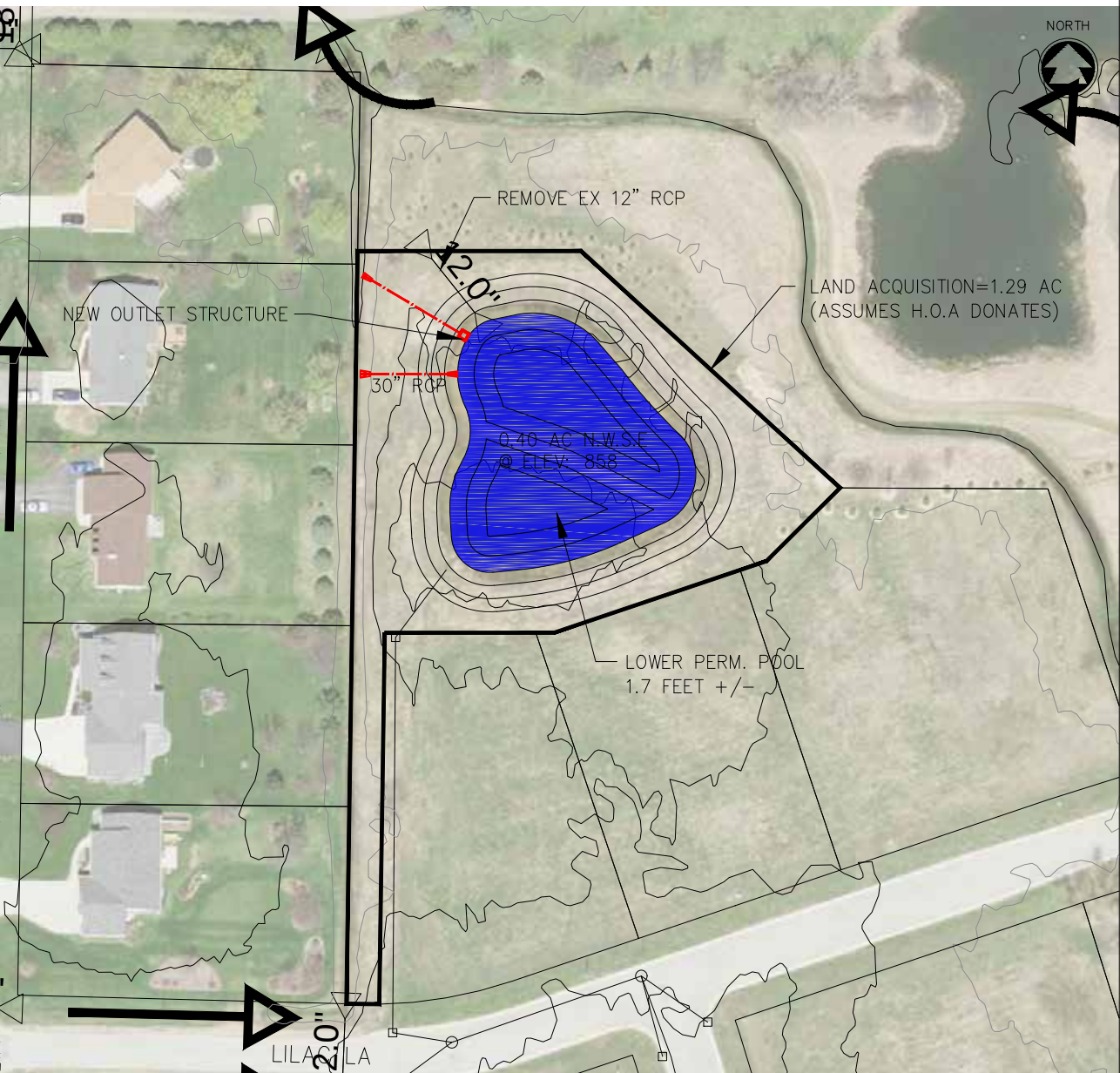
Approx. Land Required (ac):

1.29 acres

Estimated Cost:

\$93,300

Sketch of Proposed BMP Retrofit:



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-B6k3

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: EVENING STAR POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
BEAR CREEK

Tributary Drainage Area IDs:
B6j, B6k1, B6k2, B6k3

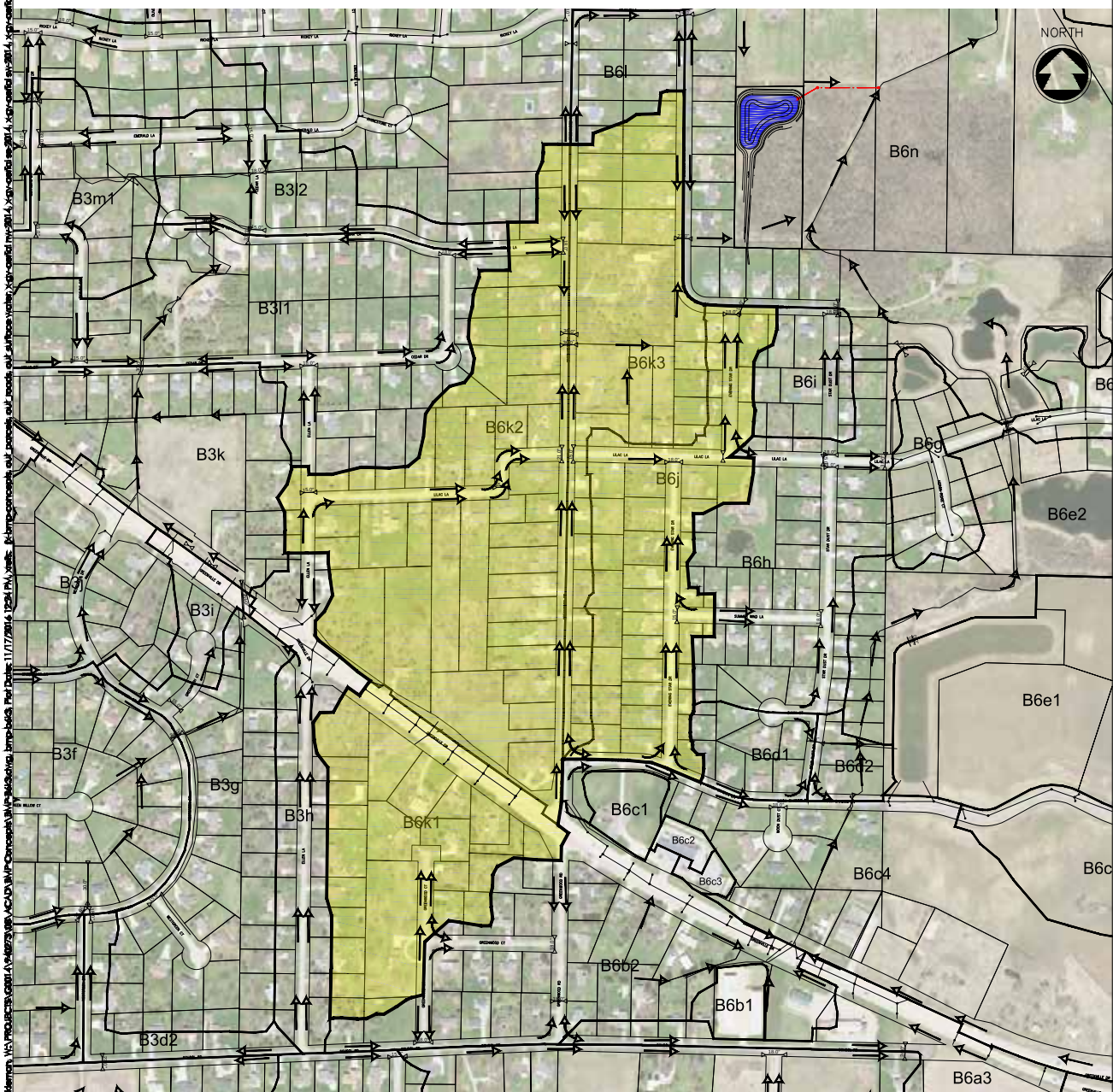
Total Drainage Area:
93.3 acres

Imperviousness (Future):
22.2 %

Runoff Curve Number (Future):
79

Water Quality Volume (Future):
2.9 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): 0 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain: ☒ Yes ☐ No

Wetland: ☐ Potential ☒ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to the east to the navigable stream.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from Evening Star Dr and Comet Ln into pond via a swale.

Site access for future BMP maintenance:

Fair. Access site from Rickey Ln to the north.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands; groundwater; floodplain; existing ditch grades.

Approx. Size of BMP Retrofit:

0.80 acre permanent pool

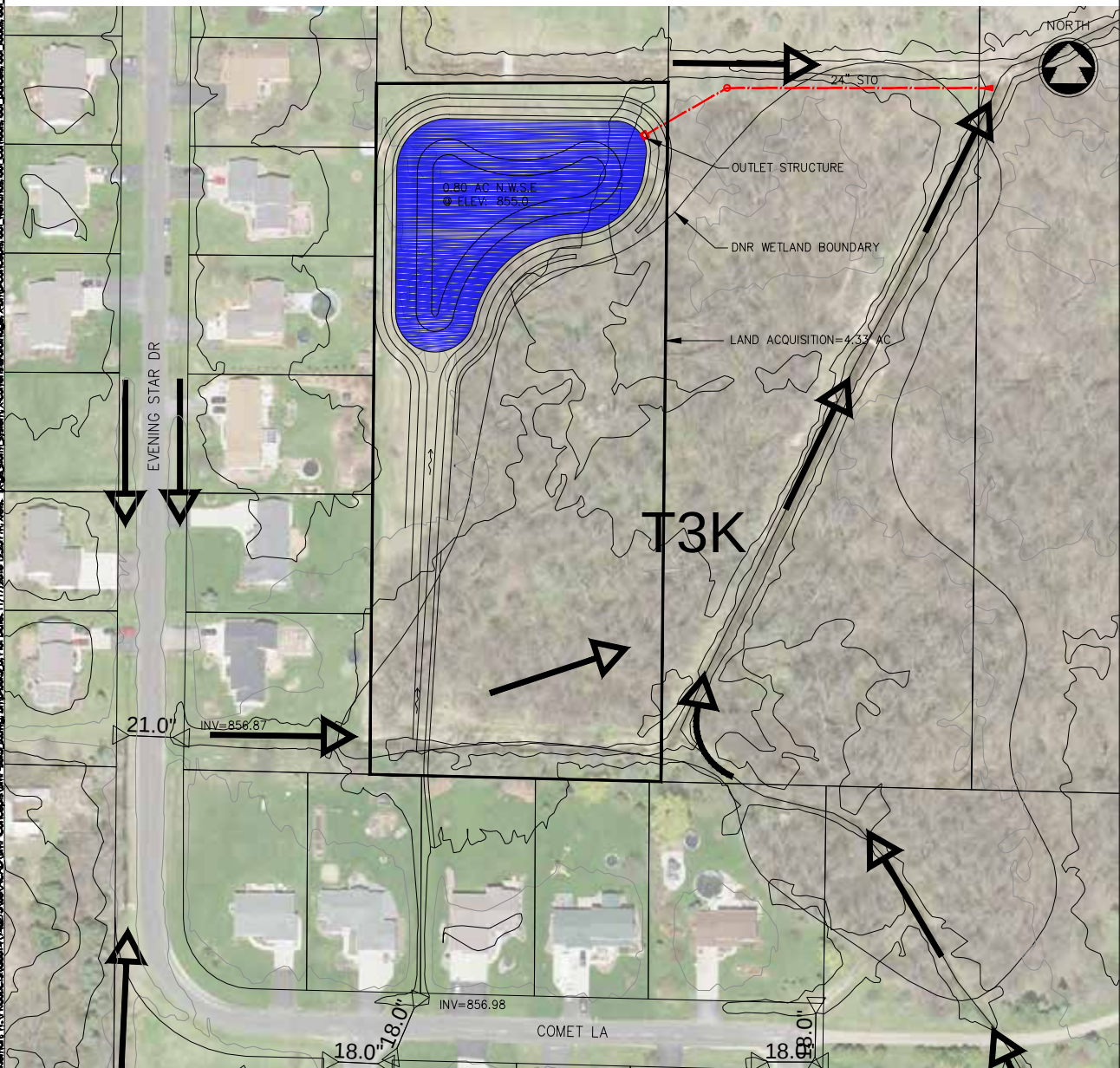
Approx. Land Required (ac):

4.33 acres

Estimated Cost:

\$397,200

Sketch of Proposed BMP Retrofit:



POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-B8d

McM PROJECT NO: G0014-9-14-00273

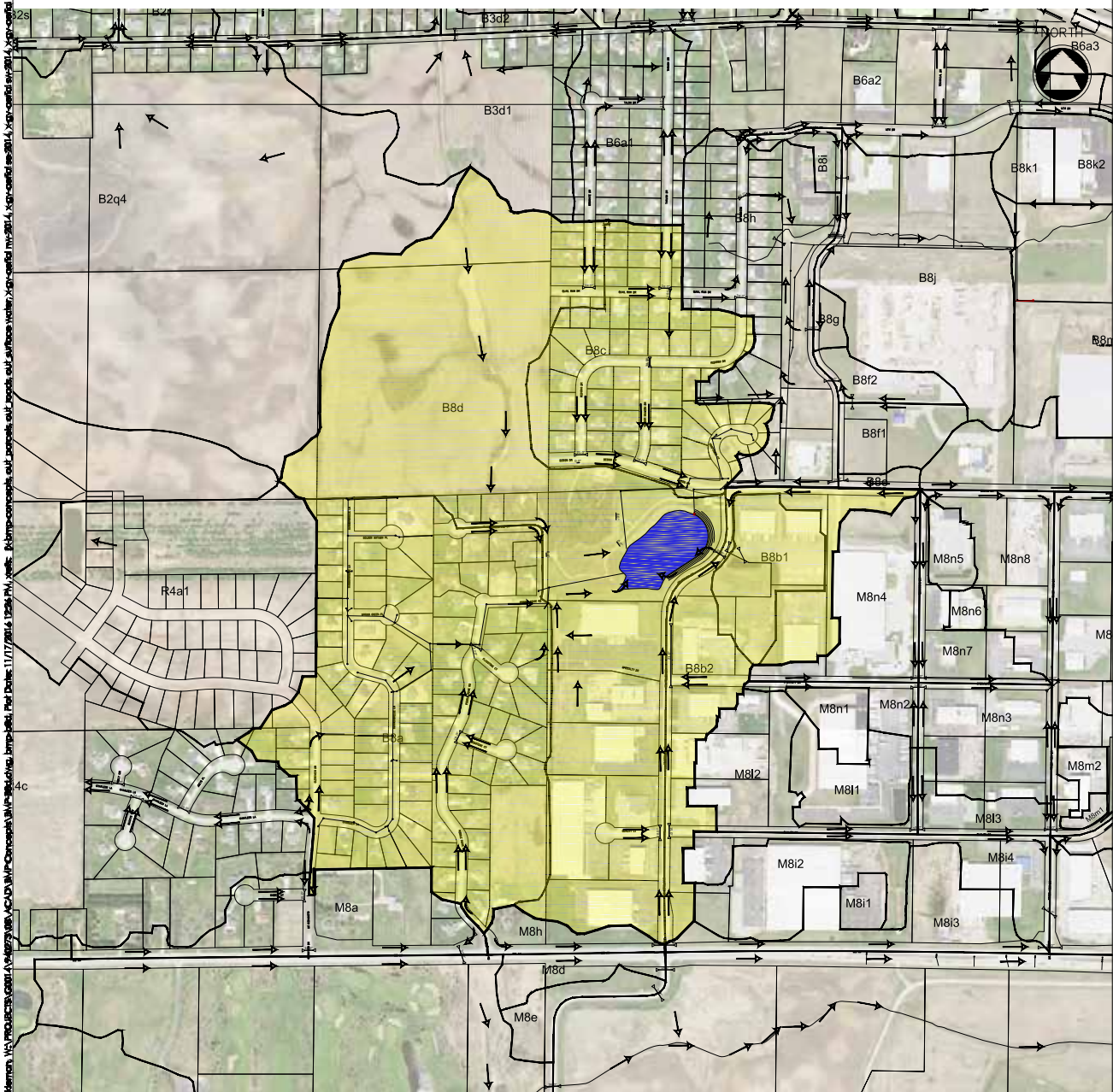
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: PEBBLE RIDGE PARK POND EXPANSION	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: BEAR CREEK	Tributary Drainage Area IDs: B8a, B8b1, B8b2, B8c, B8d	Total Drainage Area: 225.6 acres
Imperviousness (Future): 44.2 %	Runoff Curve Number (Future): 84	Water Quality Volume (Future): 12.6 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): 0 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silty loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain: ☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to discharge through new outlet structure and into the existing 18" storm sewer that drains north.

Infrastructure modifications or flow diversions required for retrofit:

Pond to be expanded along the southeast side. Divert flows from culvert under Craftsmen Dr to pond via rip-rap channel.

Site access for future BMP maintenance:

Good. Access from Craftsmen Dr or Design Dr.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Utility conflicts, wetlands (artificial?), Airport overlay district

Approx. Size of BMP Retrofit:

Additional 0.56 acre permanent pool

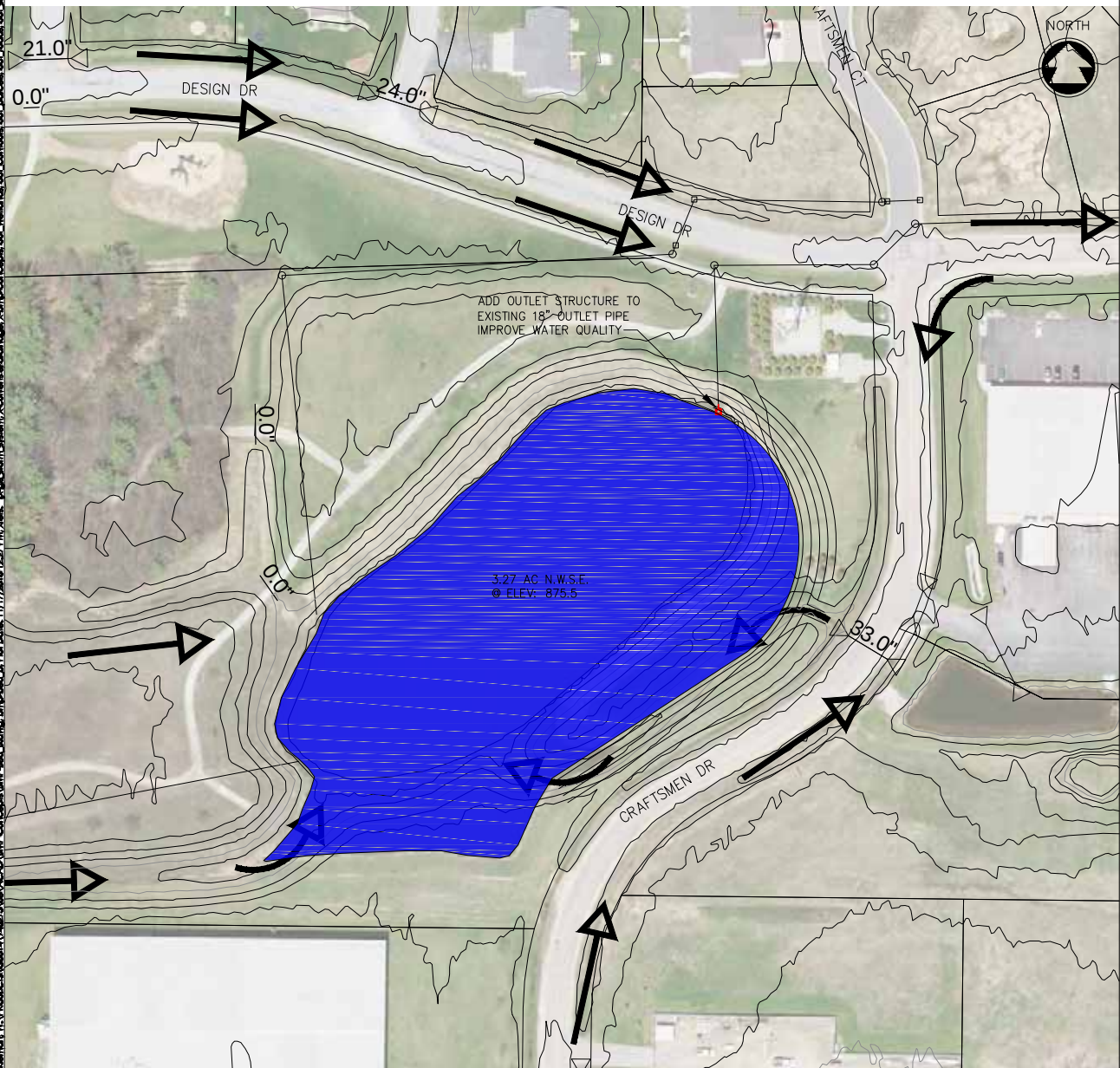
Approx. Land Required (ac):

N/A - Town Owned

Estimated Cost:

\$126,700

Sketch of Proposed BMP Retrofit:



POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-B8j

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: NORTHEAST ASPHALT POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
BEAR CREEK

Tributary Drainage Area IDs:
B8j

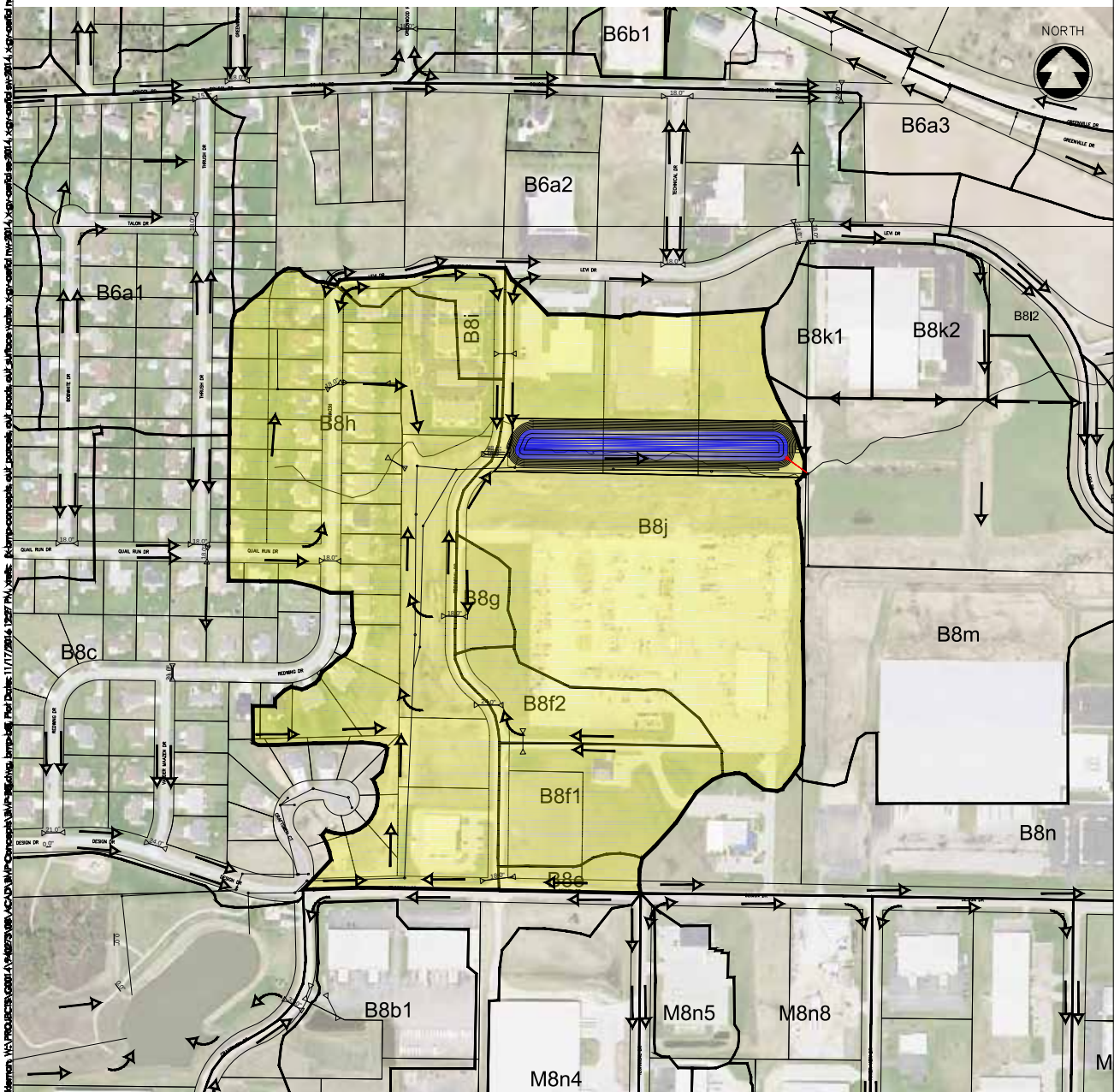
Total Drainage Area:
73.0 acres

Imperviousness (Future):
71.5 %

Runoff Curve Number (Future):
91

Water Quality Volume (Future):
6.3 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): 0-1.5 ft

Remediation:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Bedrock Depth (in): >80 in

Historical:

☐ Yes ☒ No

Public Well < 400 ft: ☐ Yes ☒ No

USDA Soil Texture: Loamy fine sand

100-Year Floodplain:

☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer and connect to the existing storm sewer system to the southeast of the outlet structure.

Infrastructure modifications or flow diversions required for retrofit:

Convert dry pond / drainage ditch to wet pond.

Site access for future BMP maintenance:

Good. Access from Technical Dr.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands (artificial?), groundwater, soils, existing storm sewer size/depth, verify existing drainage patterns/system.

Approx. Size of BMP Retrofit:

2.03 acre permanent pool

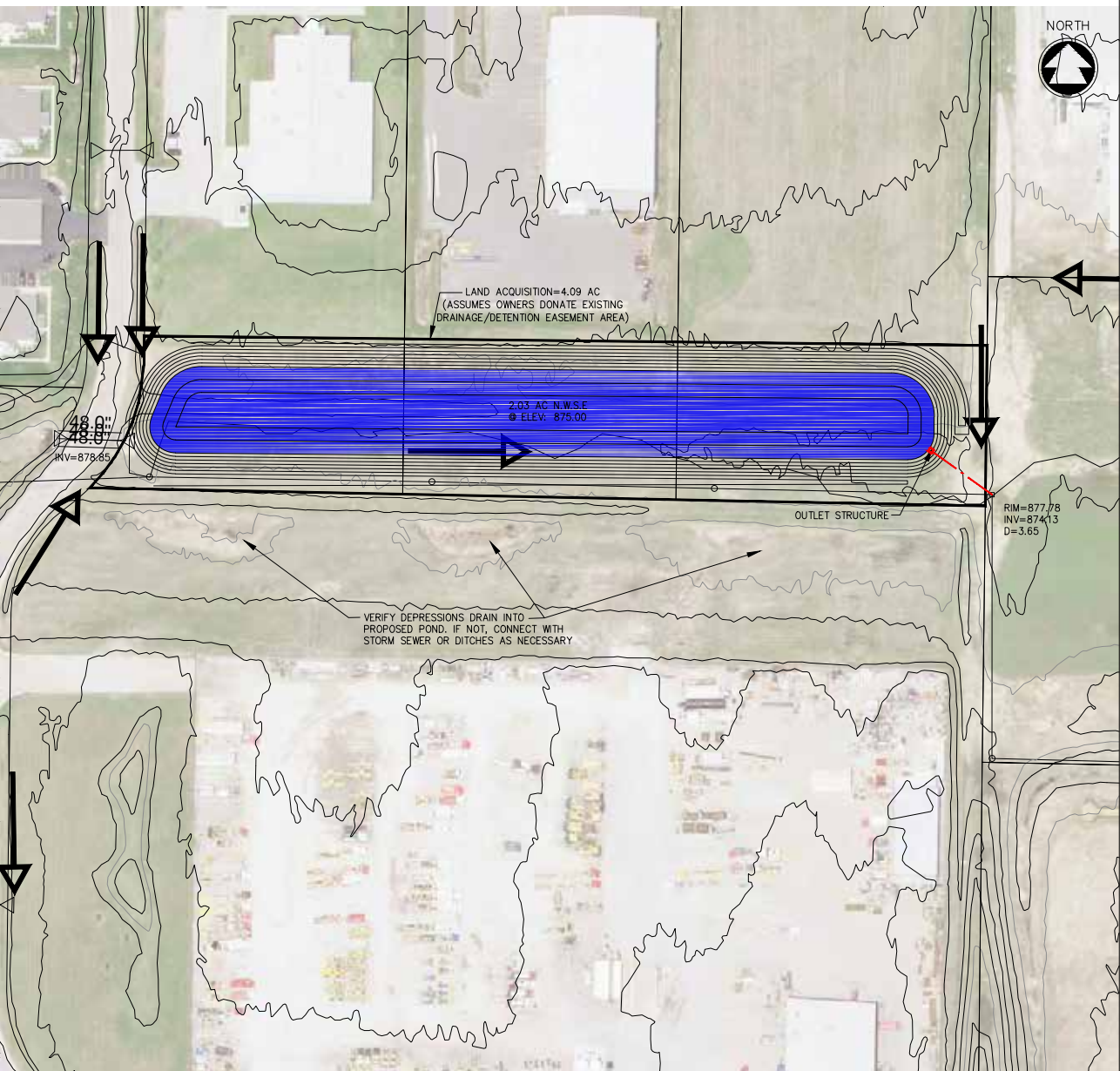
Approx. Land Required (ac):

4.09 acres

Estimated Cost:

\$427,800

Sketch of Proposed BMP Retrofit:



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-B8n

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: LEVI POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
BEAR CREEK

Tributary Drainage Area IDs:
B8a-n

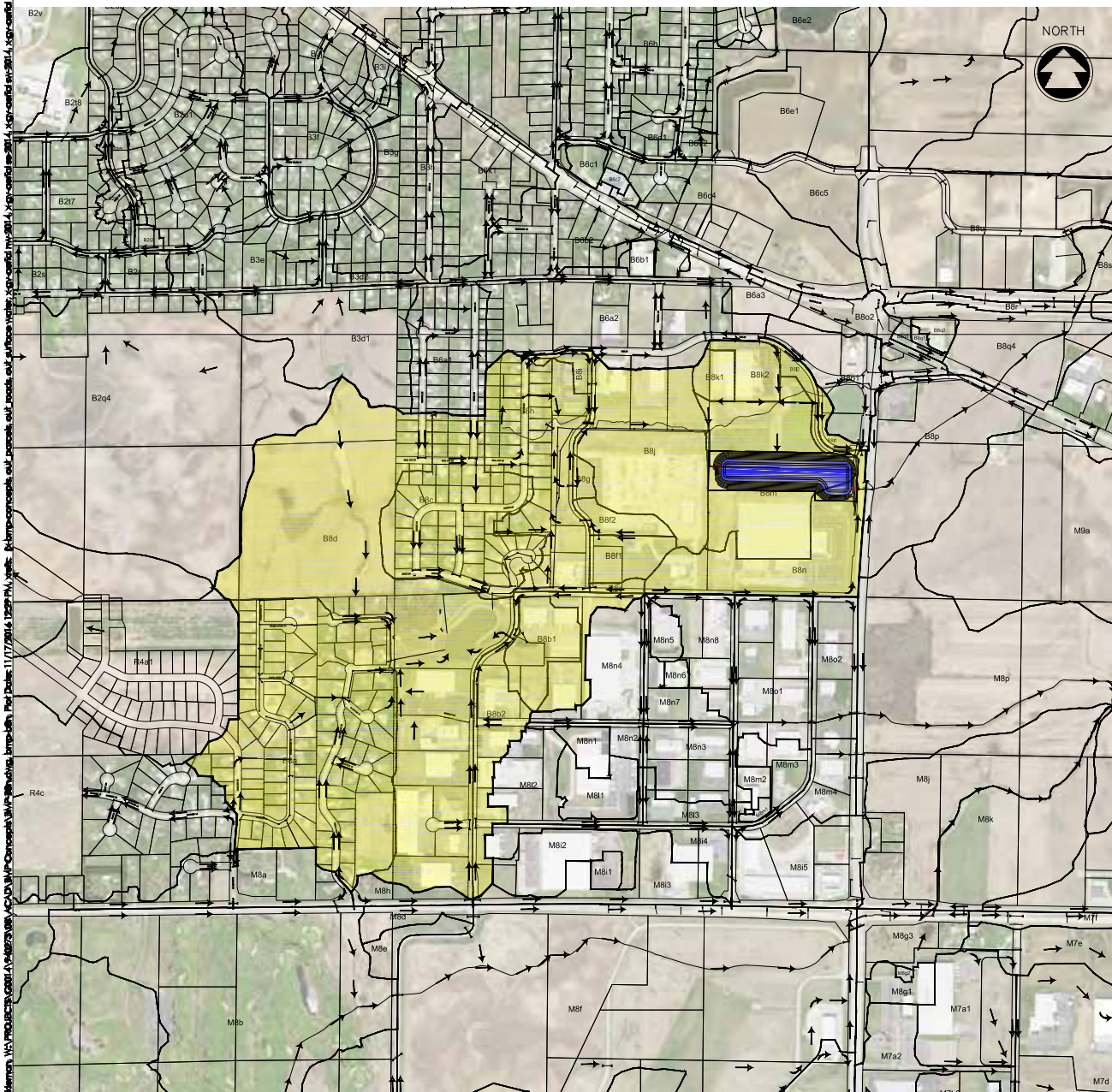
Total Drainage Area:
361.8 acres

Imperviousness (Future):
56.0 %

Runoff Curve Number (Future):
87

Water Quality Volume (Future):
25.1 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft
Bedrock Depth (in): >80 in
USDA Soil Texture: Silt loam

Remediation: ☐ Yes ☒ No
Historical: ☐ Yes ☒ No
100-Year Floodplain: ☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No
Public Well < 400 ft: ☐ Yes ☒ No
Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to the west ditch of CTH "CB" near the existing cross culvert.

Infrastructure modifications or flow diversions required for retrofit:

Convert dry pond to wet pond. Remove existing storm sewer and re-install new storm into pond at west end.

Site access for future BMP maintenance:

Good. Access from Levi Dr or CTH "CB".

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands (artificial?), groundwater, soils, existing storm sewer size/depth

Approx. Size of BMP Retrofit:

5.25 acre permanent pool

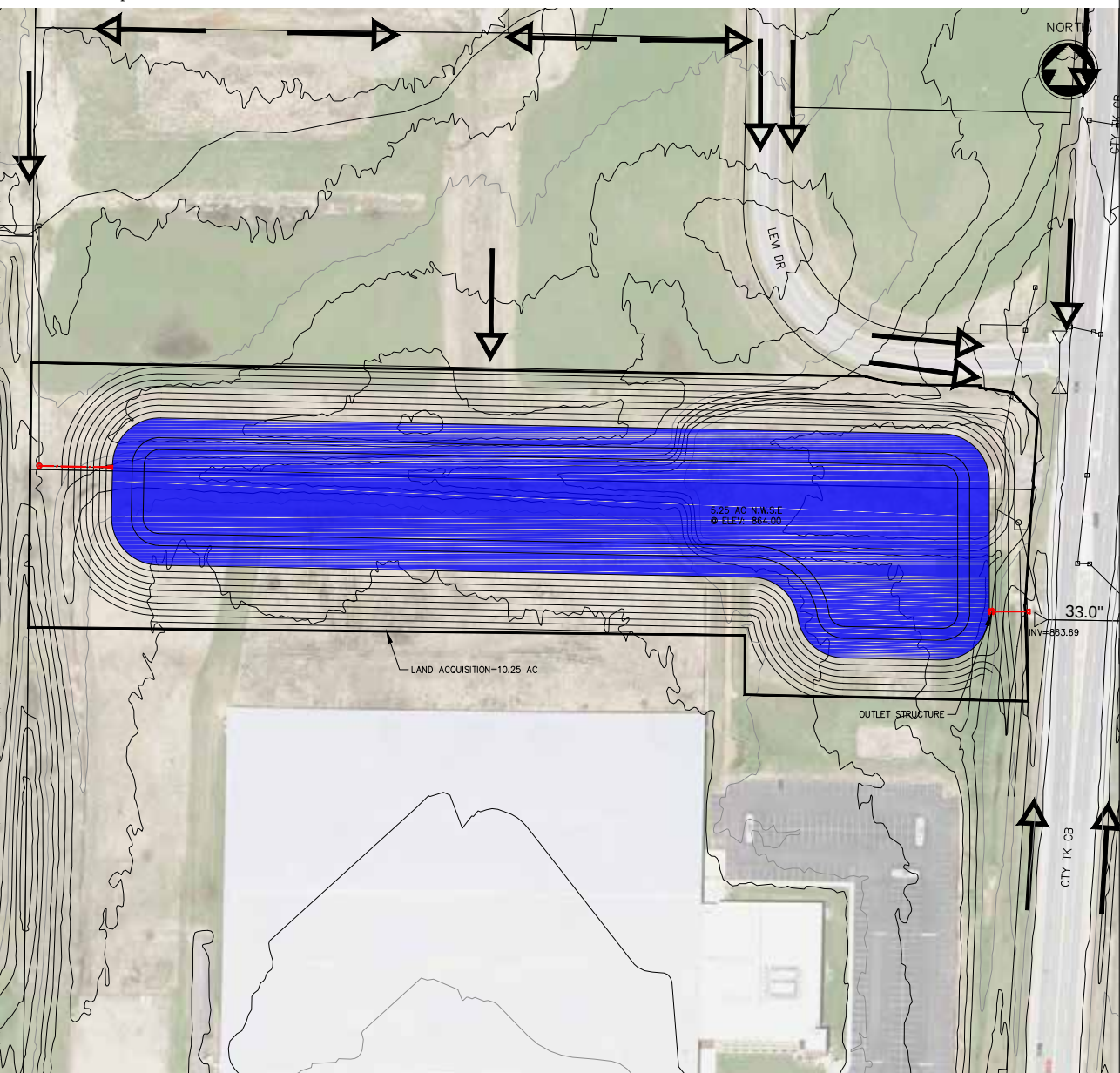
Approx. Land Required (ac):

10.25 acres

Estimated Cost:

\$2,130,100

Sketch of Proposed BMP Retrofit:



POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-M1a

McM PROJECT NO: G0014-9-14-00273

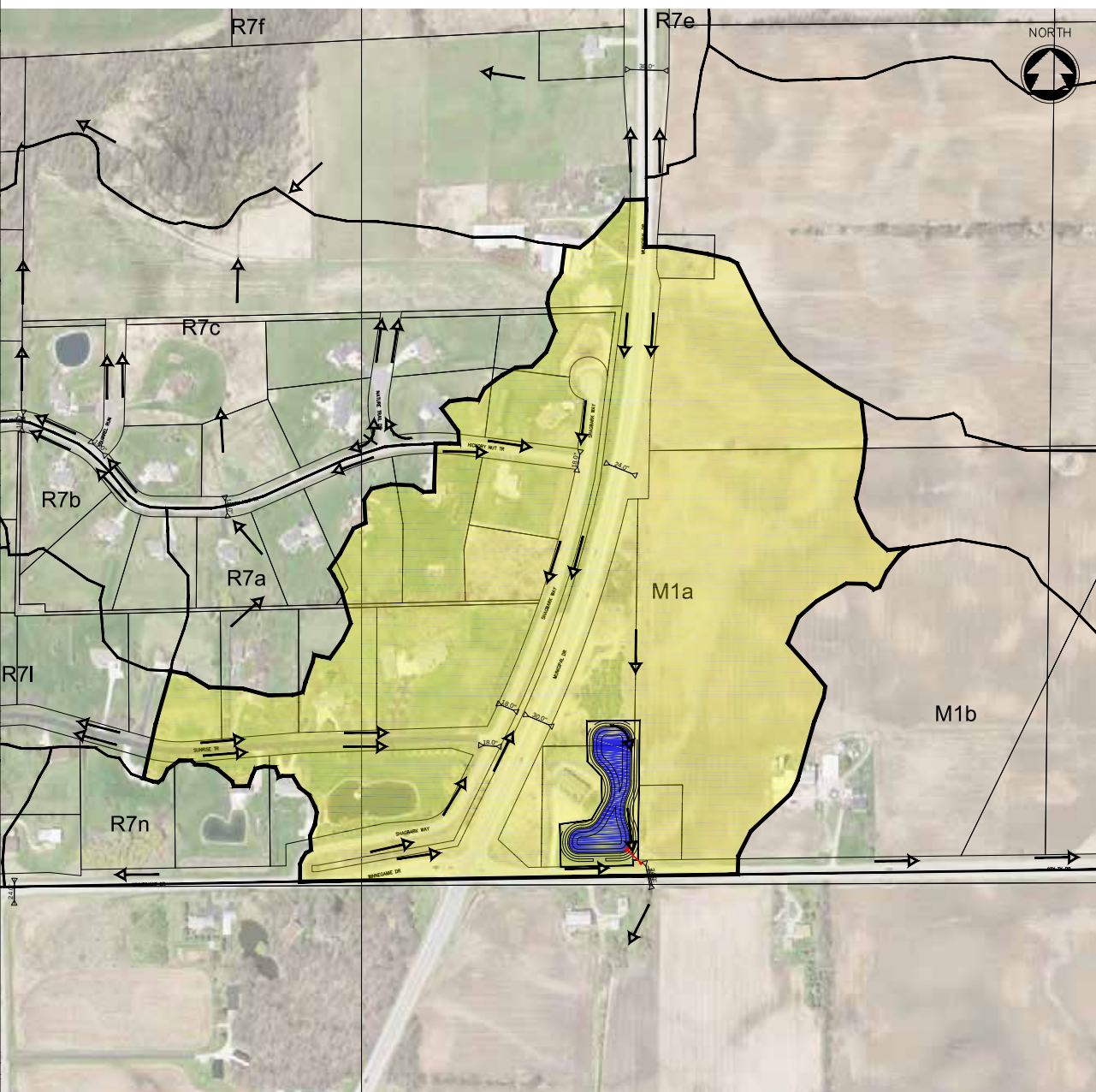
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: SHAGBARK POND	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: FOX RIVER	Tributary Drainage Area IDs: M1a	Total Drainage Area: 66.4 acres
Imperviousness (Future): 37.2 %	Runoff Curve Number (Future): 83	Water Quality Volume (Future): 3.2 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft
Bedrock Depth (in): >80 in
USDA Soil Texture: Silt loam

Remediation: ☐ Yes ☒ No
Historical: ☒ Yes ☐ No
100-Year Floodplain: ☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No
Public Well < 400 ft: ☐ Yes ☒ No
Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):
Pond to outfall to CTH "BB" culverts via storm sewer.

Infrastructure modifications or flow diversions required for retrofit:
Divert flows from drainage ways to the north into the pond.

Site access for future BMP maintenance:
Good. Access from parking lot or CTH "BB".

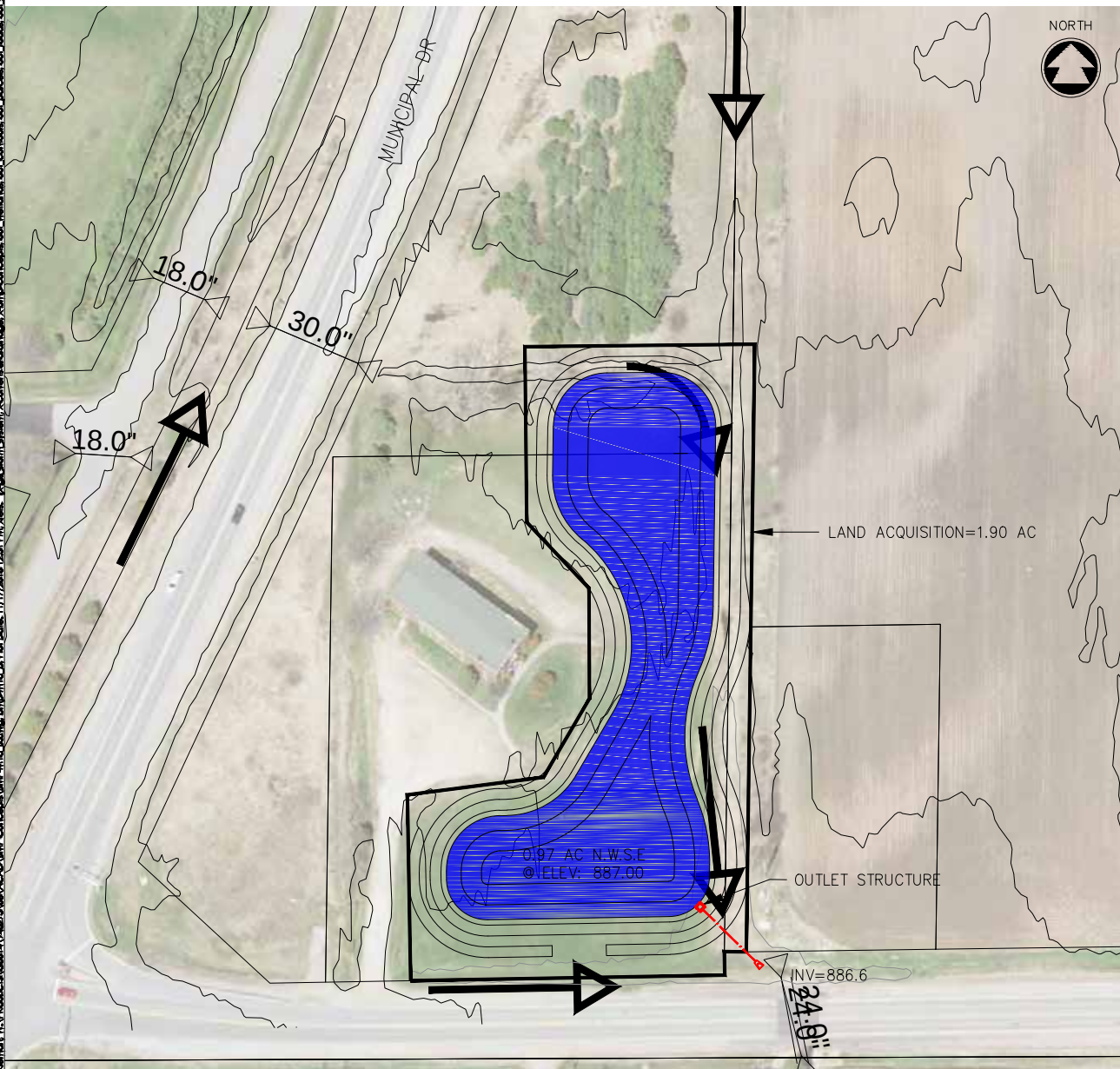
Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):
Wetlands, groundwater, utility conflicts, historical site?

Approx. Size of BMP Retrofit:
0.97 acre permanent pool

Approx. Land Required (ac):
1.90 acres

Estimated Cost:
\$325,300

Sketch of Proposed BMP Retrofit:



POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-M4i

McM PROJECT NO: G0014-9-14-00273

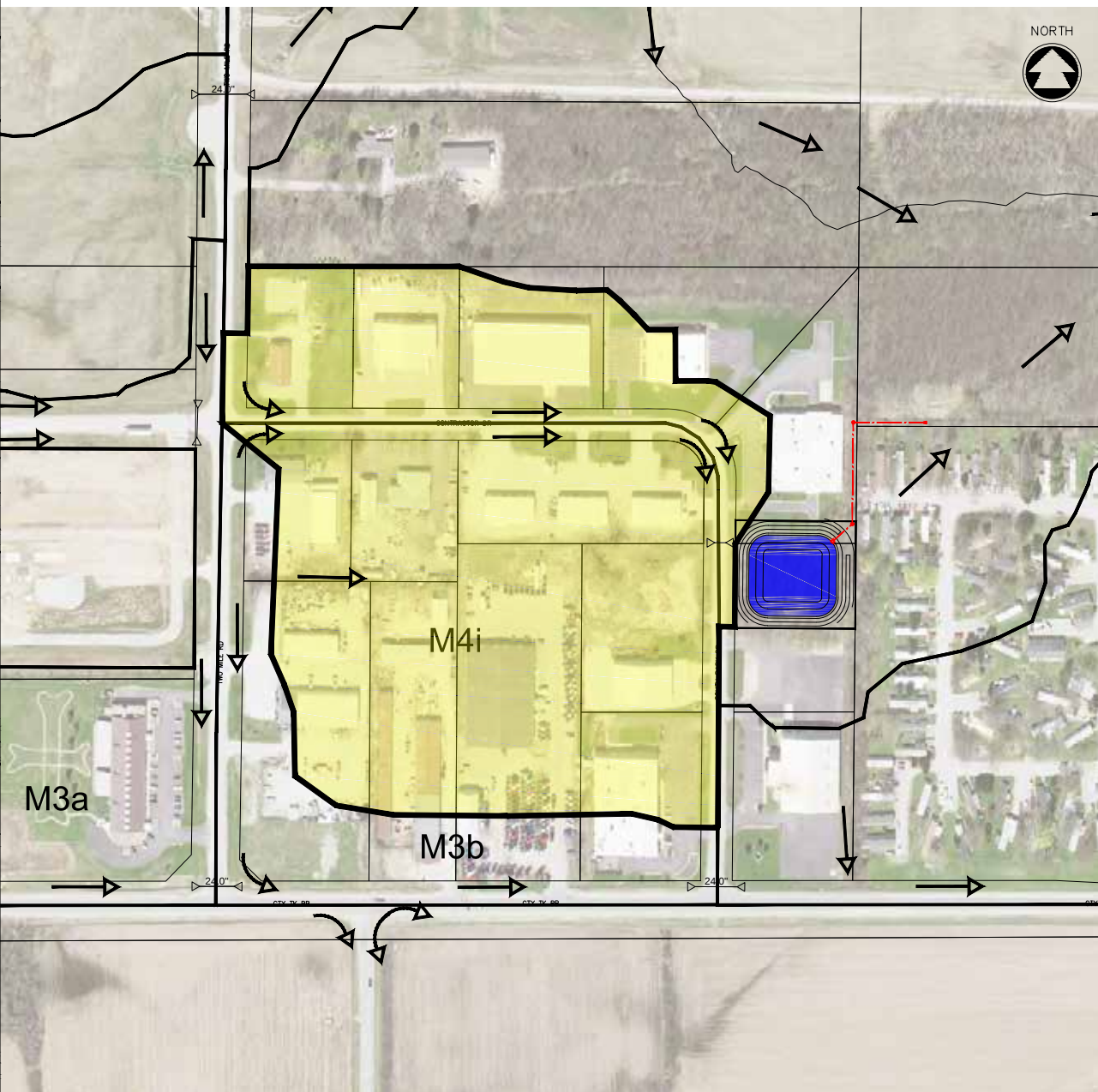
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: CONTRACTOR POND	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: FOX RIVER	Tributary Drainage Area IDs: M4i	Total Drainage Area: 24.2 acres
Imperviousness (Future): 80.7 %	Runoff Curve Number (Future): 92	Water Quality Volume (Future): 2.4 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): 1-2 ft
Bedrock Depth (in): >80 in
USDA Soil Texture: Silt loam

Remediation: ☐ Yes ☒ No
Historical: ☐ Yes ☒ No
100-Year Floodplain: ☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No
Public Well < 400 ft: ☐ Yes ☒ No
Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall to via storm sewer to drainage way located to the northeast.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from culvert under South Park Dr into pond via rip-rap channel.

Site access for future BMP maintenance:

Good. Access from South Park Dr.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

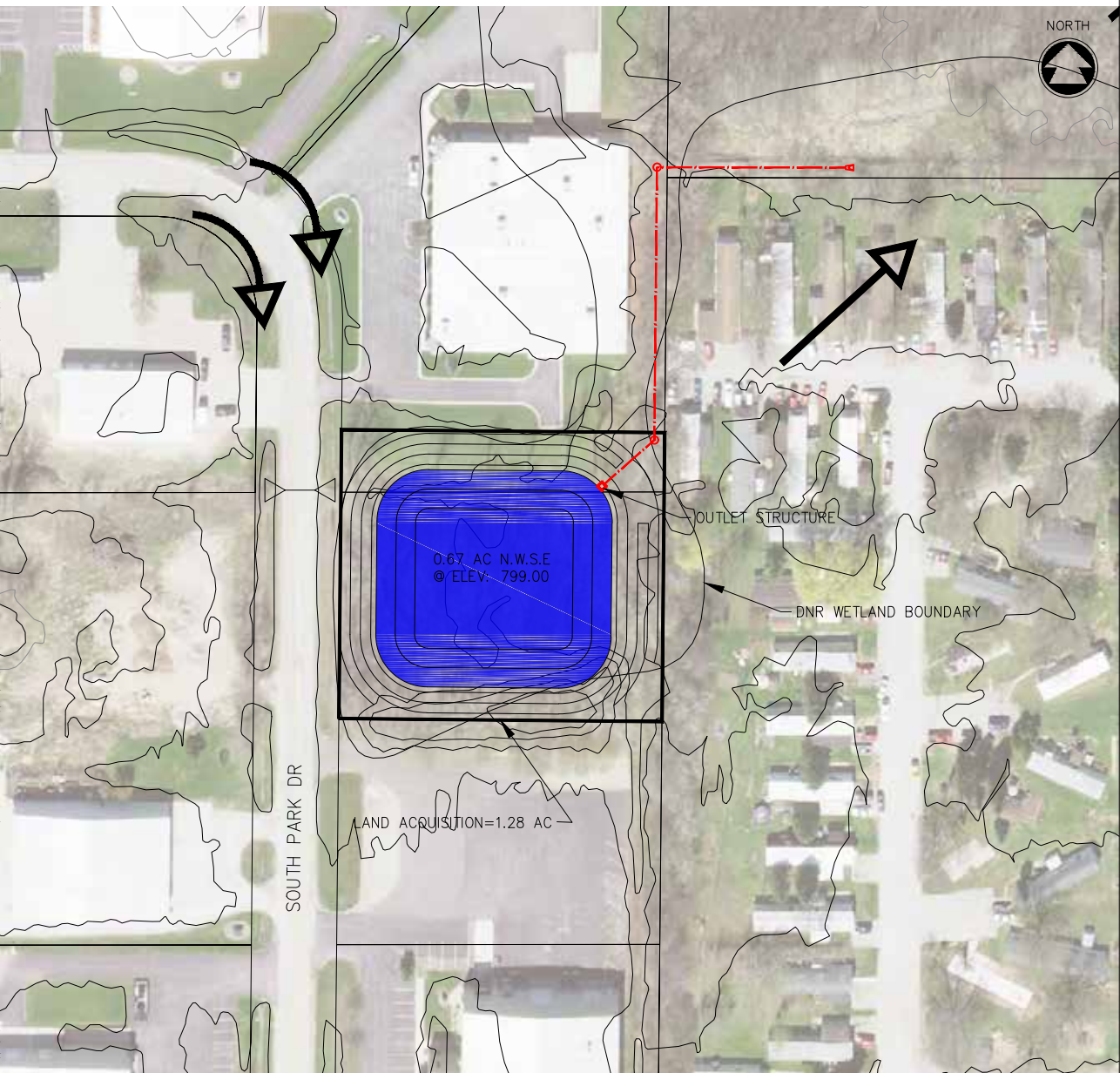
Wetlands (within DNR inventory boundary), groundwater, utility conflicts

Approx. Size of BMP Retrofit:
0.67 acre permanent pool

Approx. Land Required (ac):
1.28 acres

Estimated Cost:
\$367,200

Sketch of Proposed BMP Retrofit:



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-M5g

McM PROJECT NO: G0014-9-14-00273

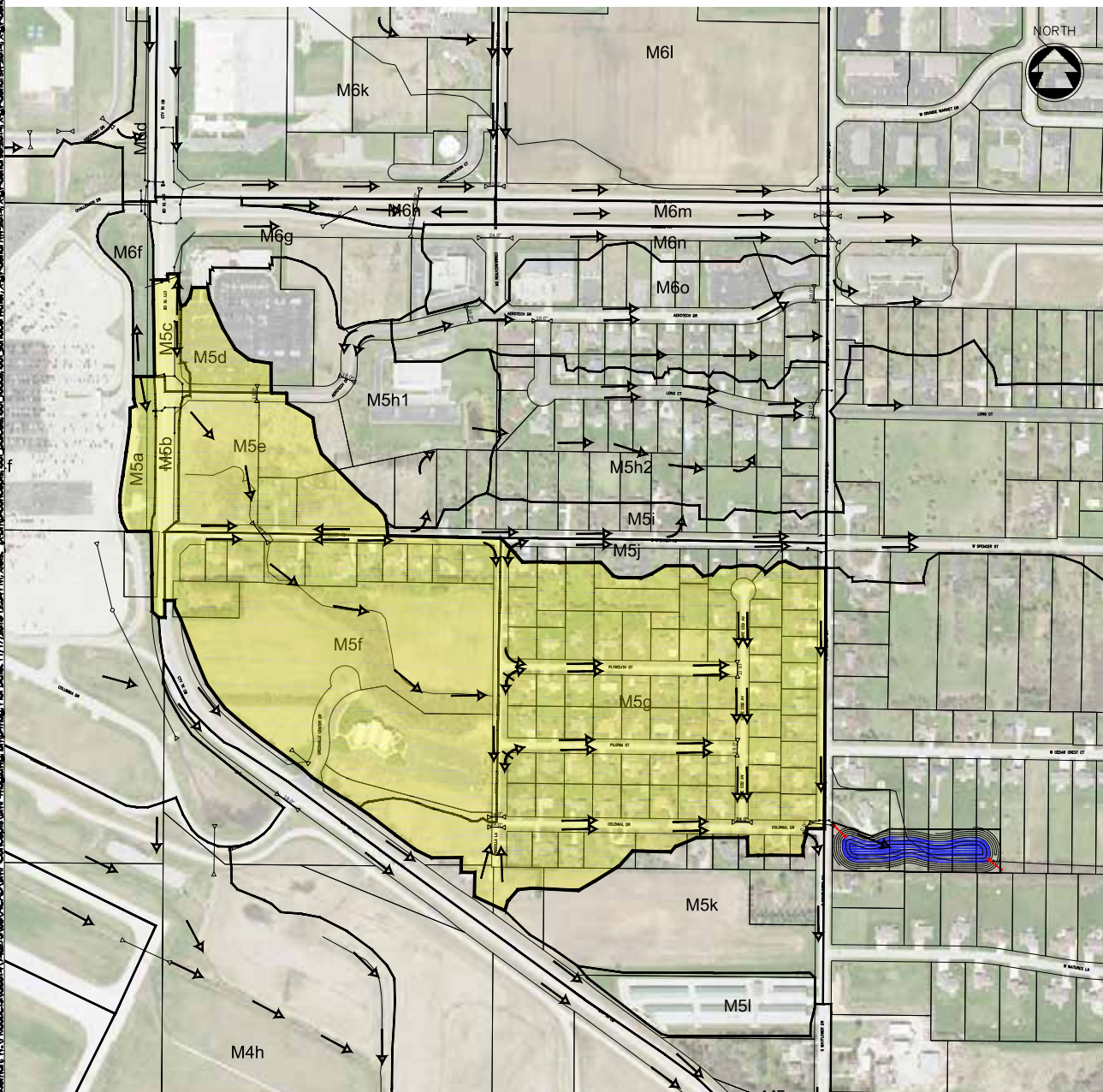
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: MAYFLOWER POND	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: FOX RIVER	Tributary Drainage Area IDs: M5a, M5b, M5c, M5d, M5e, M5f, M5g	Total Drainage Area: 81.6 acres
Imperviousness (Future): 53.3 %	Runoff Curve Number (Future): 84	Water Quality Volume (Future): 5.4 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): 5-6.7 ft

Remediation:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Bedrock Depth (in): >80 in

Historical:

☐ Yes ☒ No

Public Well < 400 ft: ☐ Yes ☒ No

USDA Soil Texture: Loamy fine sand

100-Year Floodplain:

☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to existing drainage way that drains east.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from Mayflower storm sewer into pond via new storm sewer.

Site access for future BMP maintenance:

Good. Access from S Mayflower Dr.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Navigability (concept assumes existing drainage way is non-navigable), wetlands, groundwater, utility conflicts

Approx. Size of BMP Retrofit:

1.21 acre permanent pool

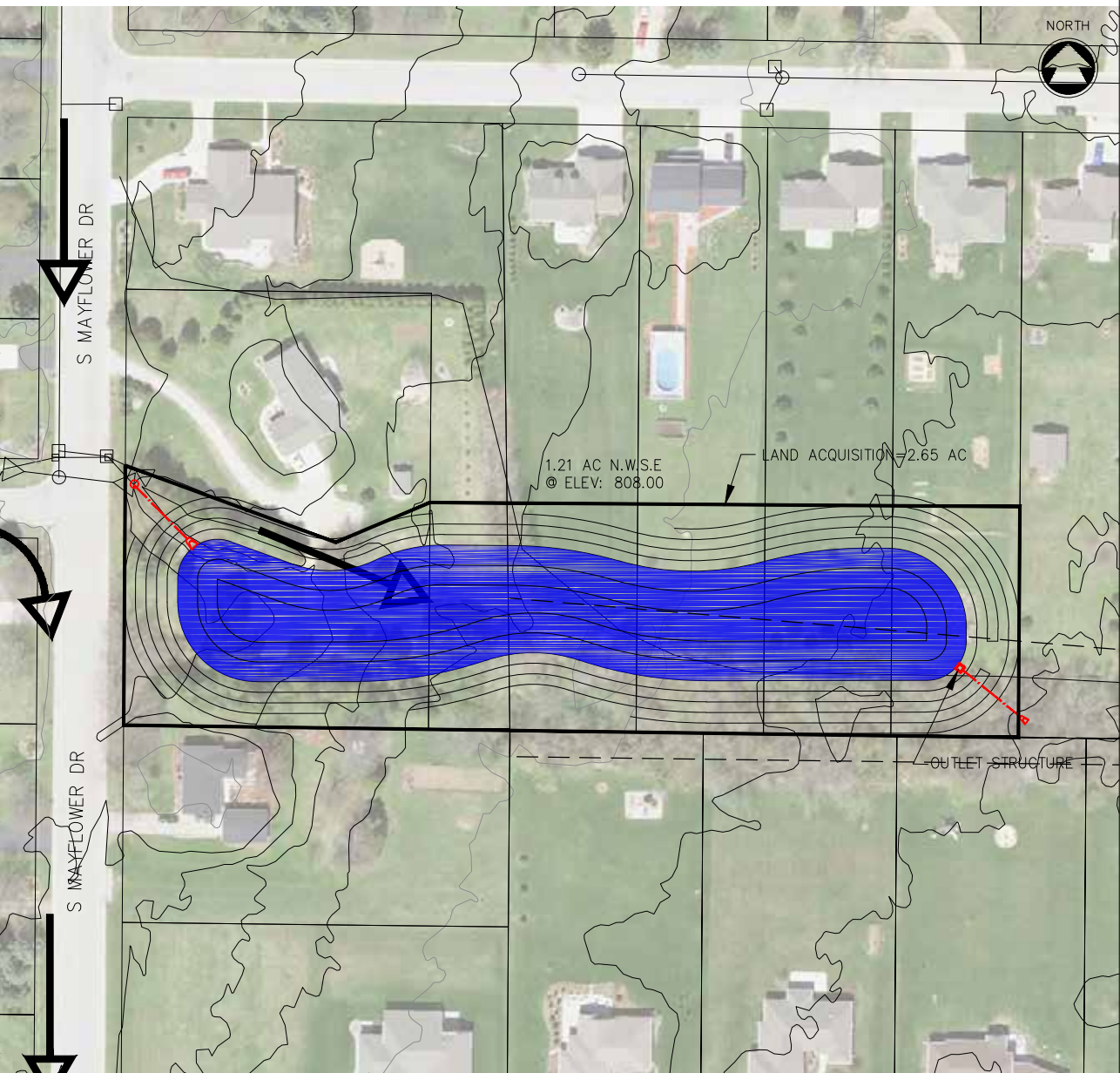
Approx. Land Required (ac):

2.65 acres

Estimated Cost:

\$466,400

Sketch of Proposed BMP Retrofit:



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-M5j2

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: SPENCER POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
FOX RIVER

Tributary Drainage Area IDs:
M5i, M5j, M5j2

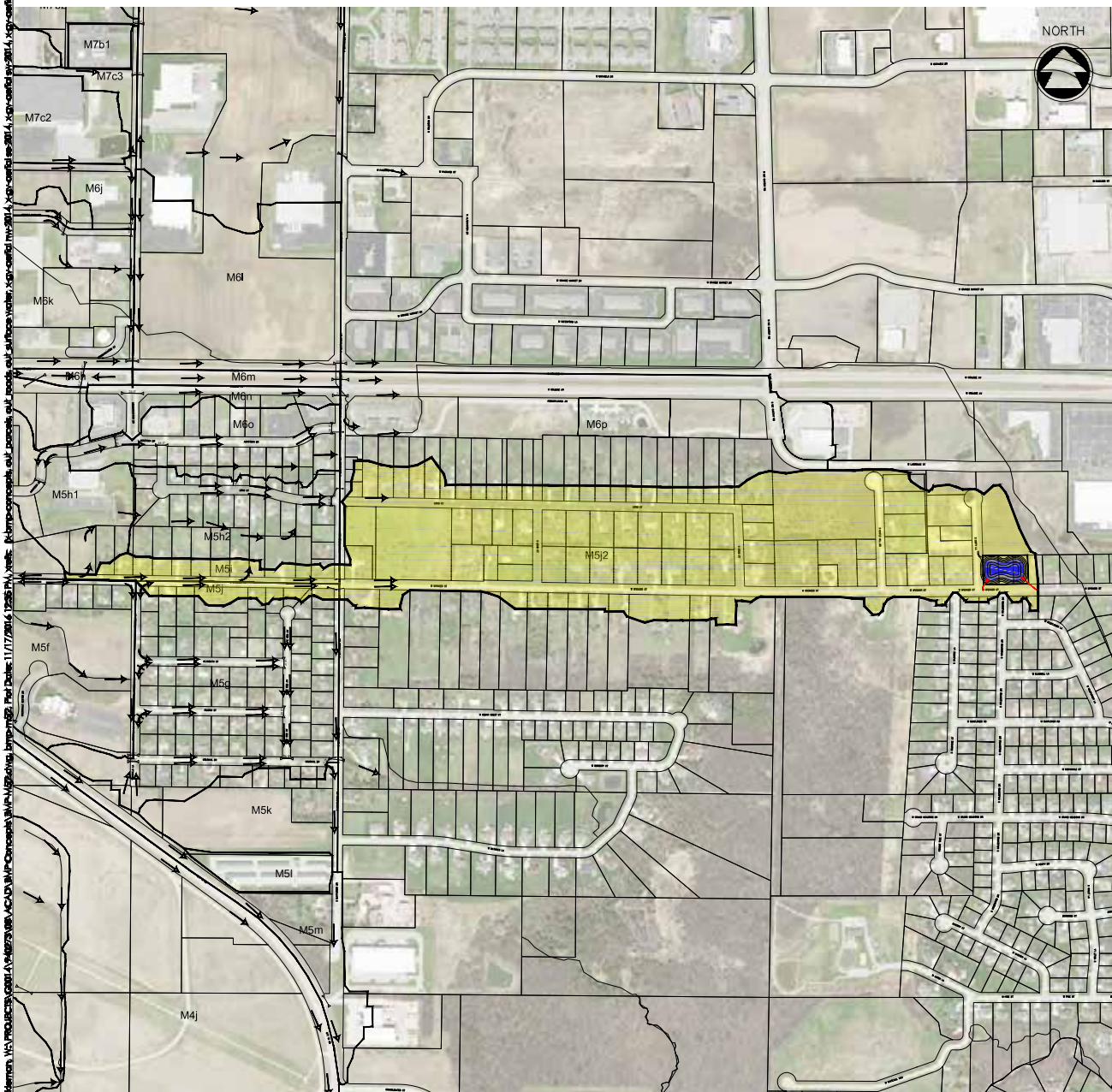
Total Drainage Area:
89.3 acres

Imperviousness (Future):
23.3 %

Runoff Curve Number (Future):
78

Water Quality Volume (Future):
2.9 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): 5-6.7 ft
Bedrock Depth (in): >80 in
USDA Soil Texture: Silty clay loam

Remediation: ☐ Yes ☒ No
Historical: ☐ Yes ☒ No
100-Year Floodplain: ☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No
Public Well < 400 ft: ☐ Yes ☒ No
Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to future Spencer St storm sewer system that will discharge to large culvert to the east.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from future Spencer St storm sewer into pond.

Site access for future BMP maintenance:

Good. Access from Spencer St or Misty Ln.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, bedrock, utility conflicts, Spencer St urbanization plans (planned for 2019 construction).

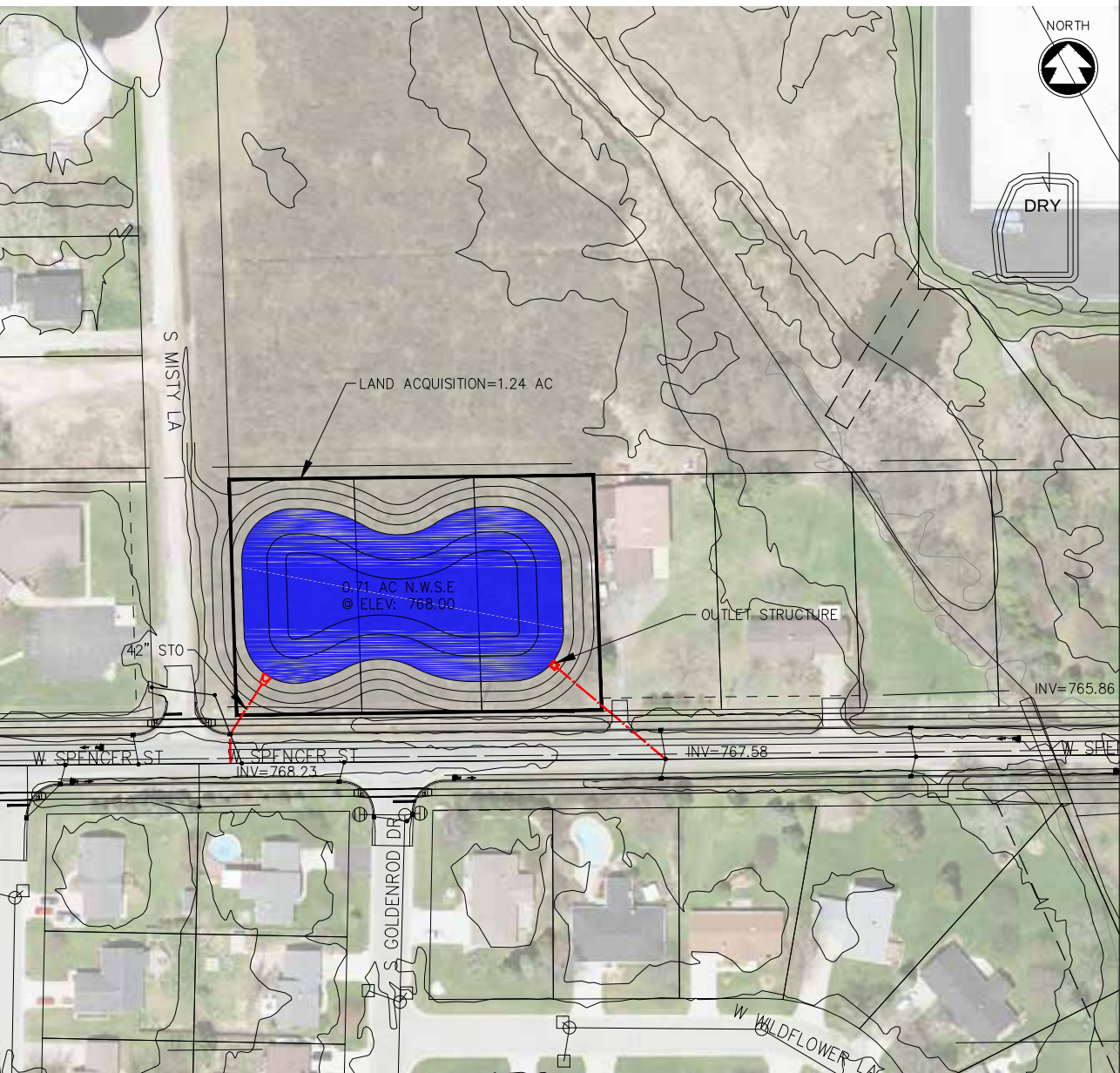
Approx. Size of BMP Retrofit:
0.71 acre permanent pool

Approx. Land Required (ac):
1.24 acres

Estimated Cost:
\$42,900*

Sketch of Proposed BMP Retrofit:

*Greenville's share based on watershed area. Grand Chute's share=\$424,200.



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-M6k

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: COMMUNICATION POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
FOX RIVER

Tributary Drainage Area IDs:
M6i, M6j, M6k

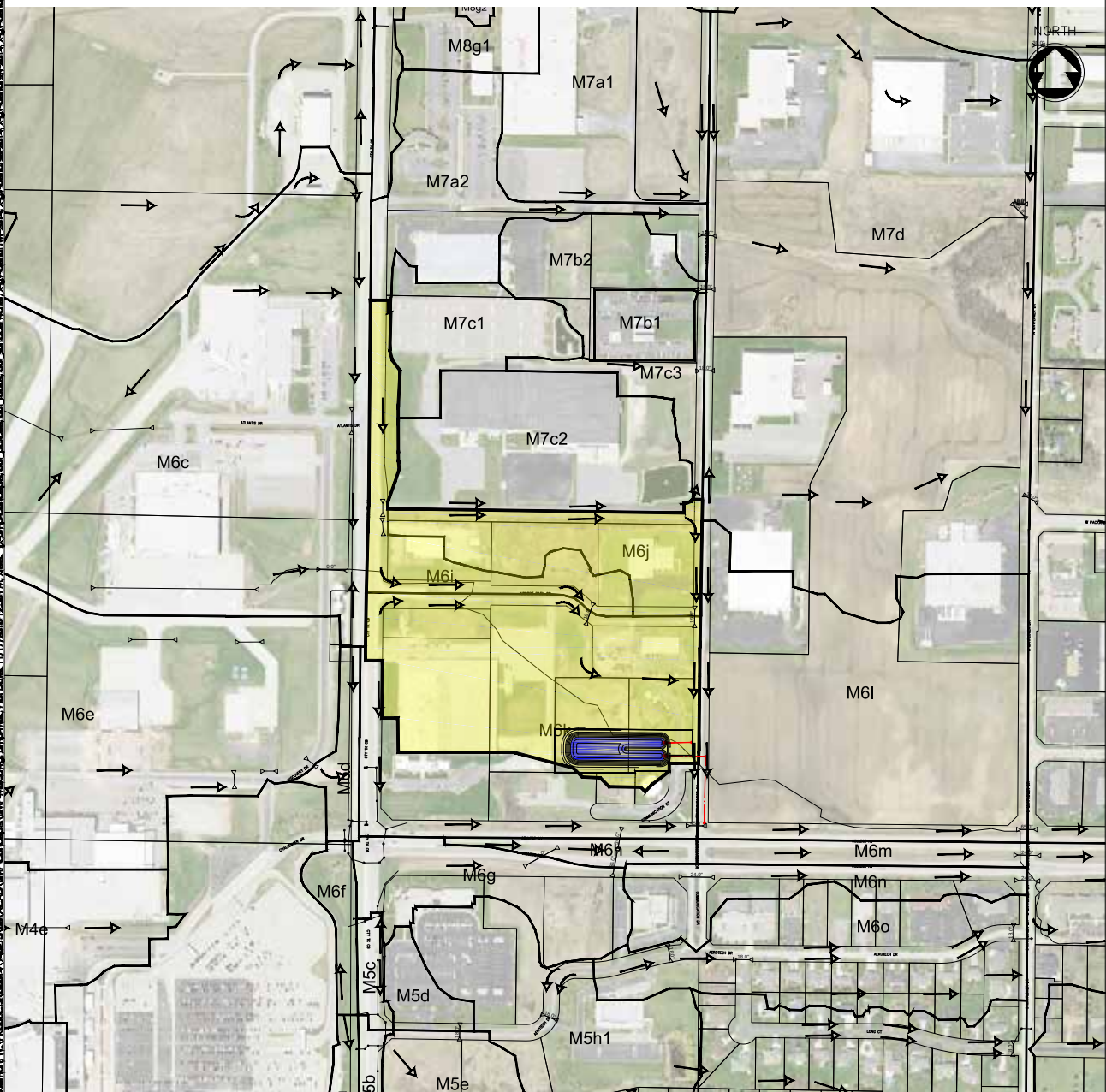
Total Drainage Area:
33.2 acres

Imperviousness (Future):
78.2 %

Runoff Curve Number (Future):
93

Water Quality Volume (Future):
3.1 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to west ditch of Communication Dr

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from west ditch of Communication Dr into pond via storm sewer.

Site access for future BMP maintenance:

Good. Access from Communications Dr and private drive.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, utility conflicts, planned business expansions

Approx. Size of BMP Retrofit:

0.75 acre permanent pool

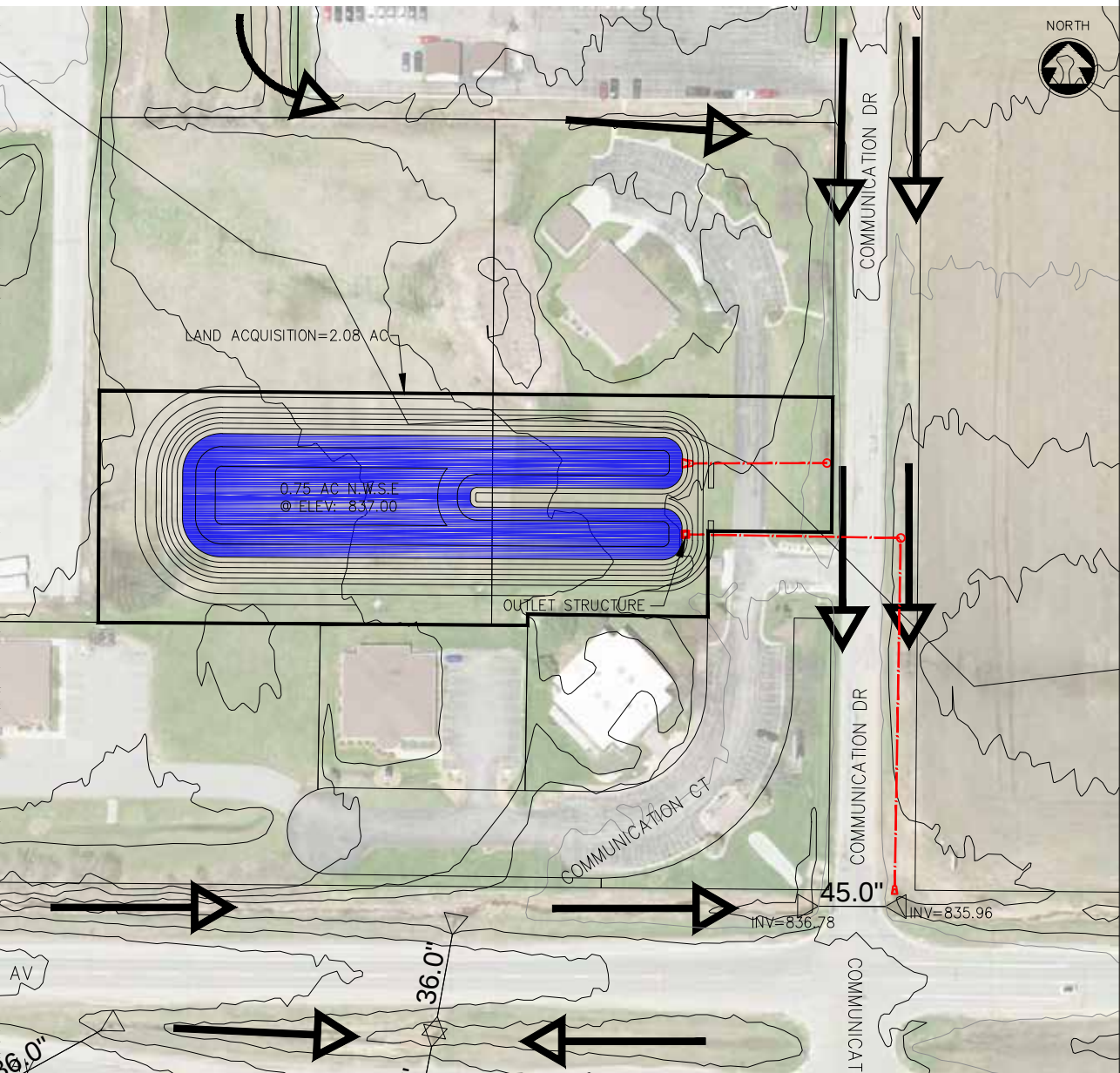
Approx. Land Required (ac):

2.08 acres

Estimated Cost:

\$605,600

Sketch of Proposed BMP Retrofit:



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-M6p

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: MAPLE HILL POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
FOX RIVER

Tributary Drainage Area IDs:
M5h1-2, M6e-p

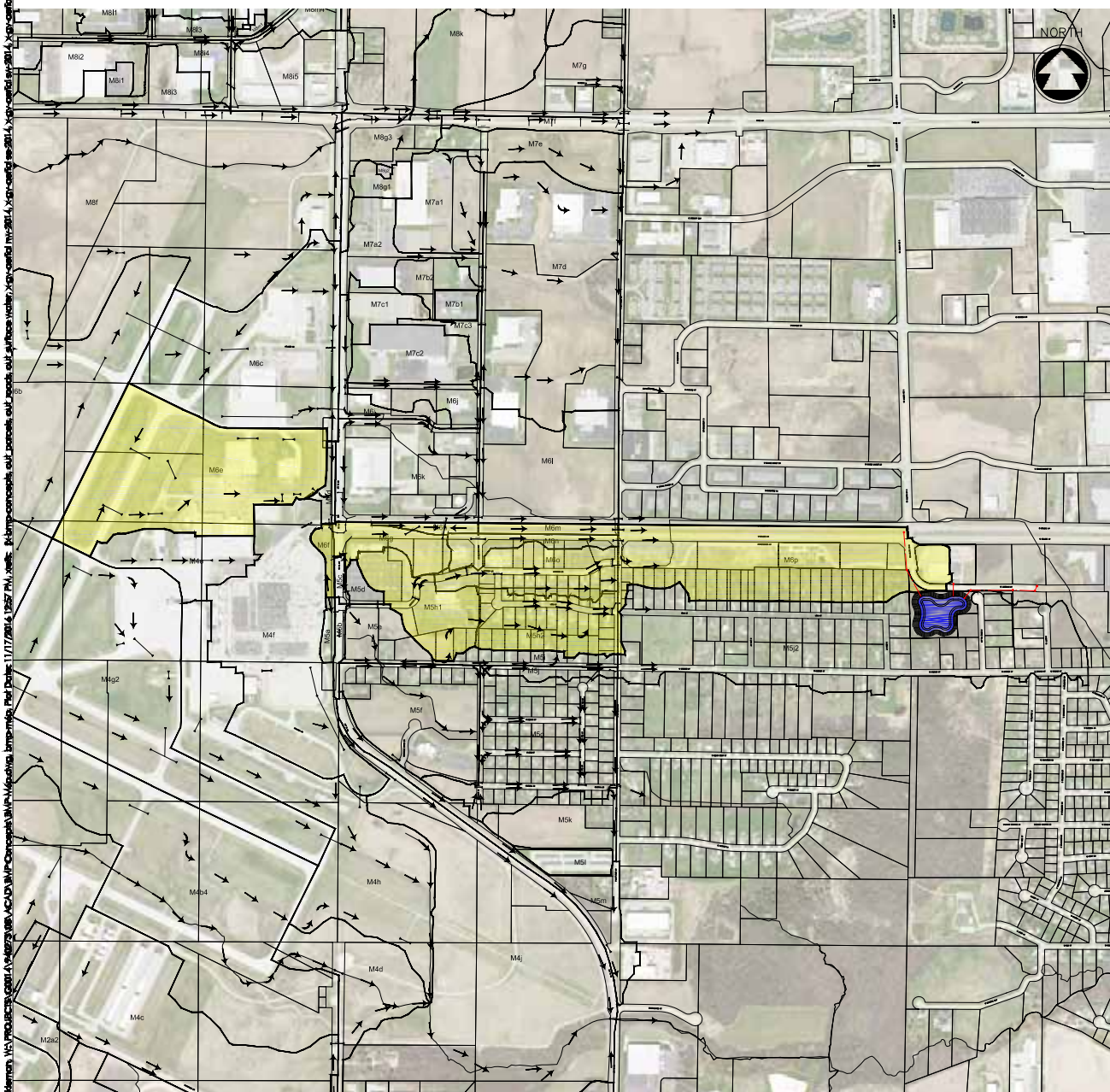
Total Drainage Area:
173.9 acres

Imperviousness (Future):
48.6%

Runoff Curve Number (Future):
80

Water Quality Volume (Future):
10.6 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): 2-5 ft
Bedrock Depth (in): >80 in

USDA Soil Texture: Lo am

Remediation: ☐ Yes ☒ No
Historical: ☐ Yes ☒ No

100-Year Floodplain: ☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer that will discharge to an existing ditch at the east end of W Lawrence Dr.

Infrastructure modifications or flow diversions required for retrofit:

Flows from CTH "CA" to be diverted into pond via storm sewer. Assumes CTH "CA" urbanization will capture associated watershed.

Site access for future BMP maintenance:

Good. Access from W. Lawrence St or S Maple Hill Dr.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, bedrock, utility conflicts, CTH "CA" future urbanization design plans.

Approx. Size of BMP Retrofit:

2.79 acre permanent pool

Approx. Land Required (ac):

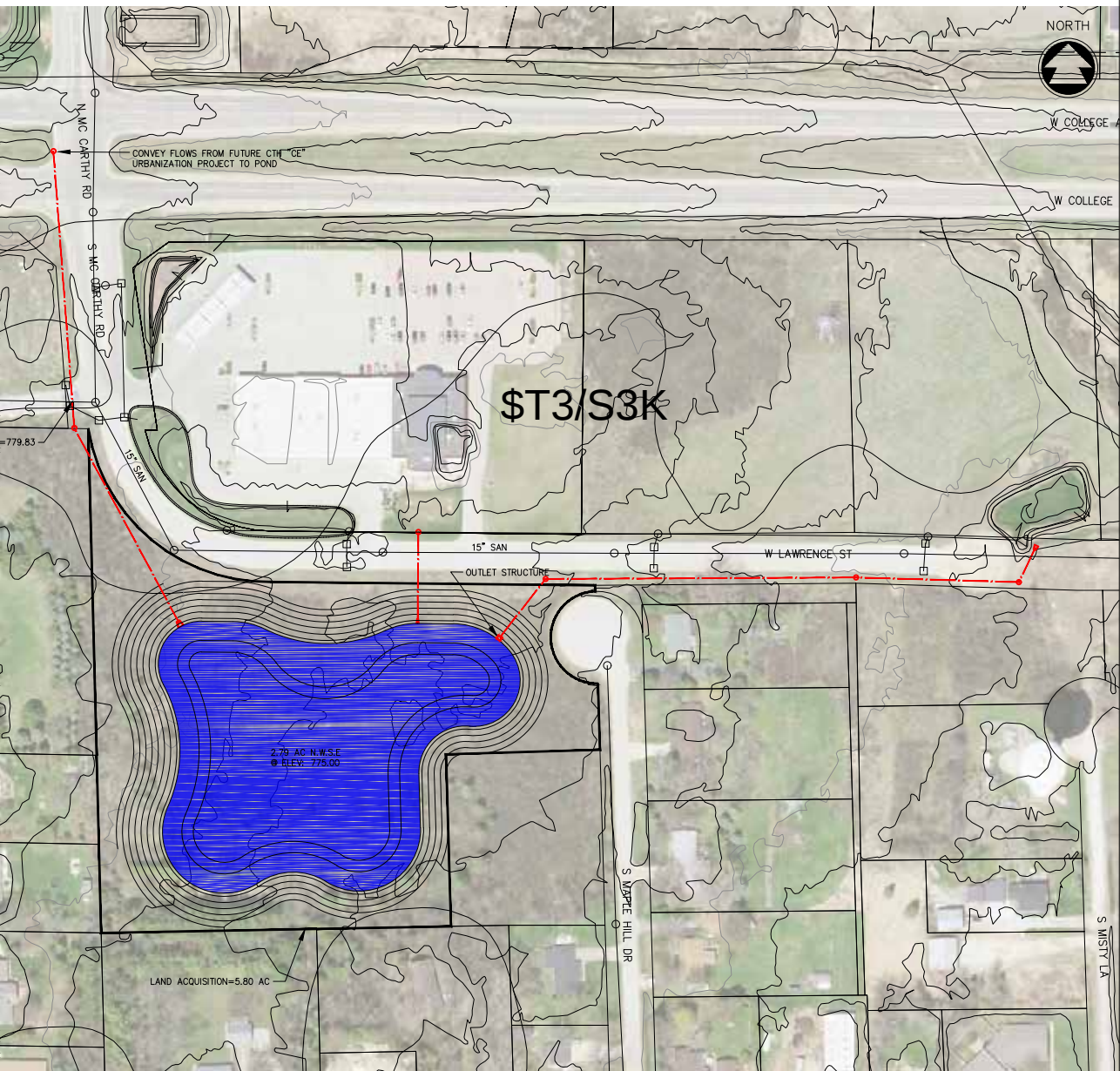
5.80 acres

Estimated Cost:

\$538,400*

Sketch of Proposed BMP Retrofit:

*Greenville's share based on watershed area. Grand Chute's share=\$367,400; Outagamie Co share=\$749,100.



POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-M7d

McM PROJECT NO: G0014-9-14-00273

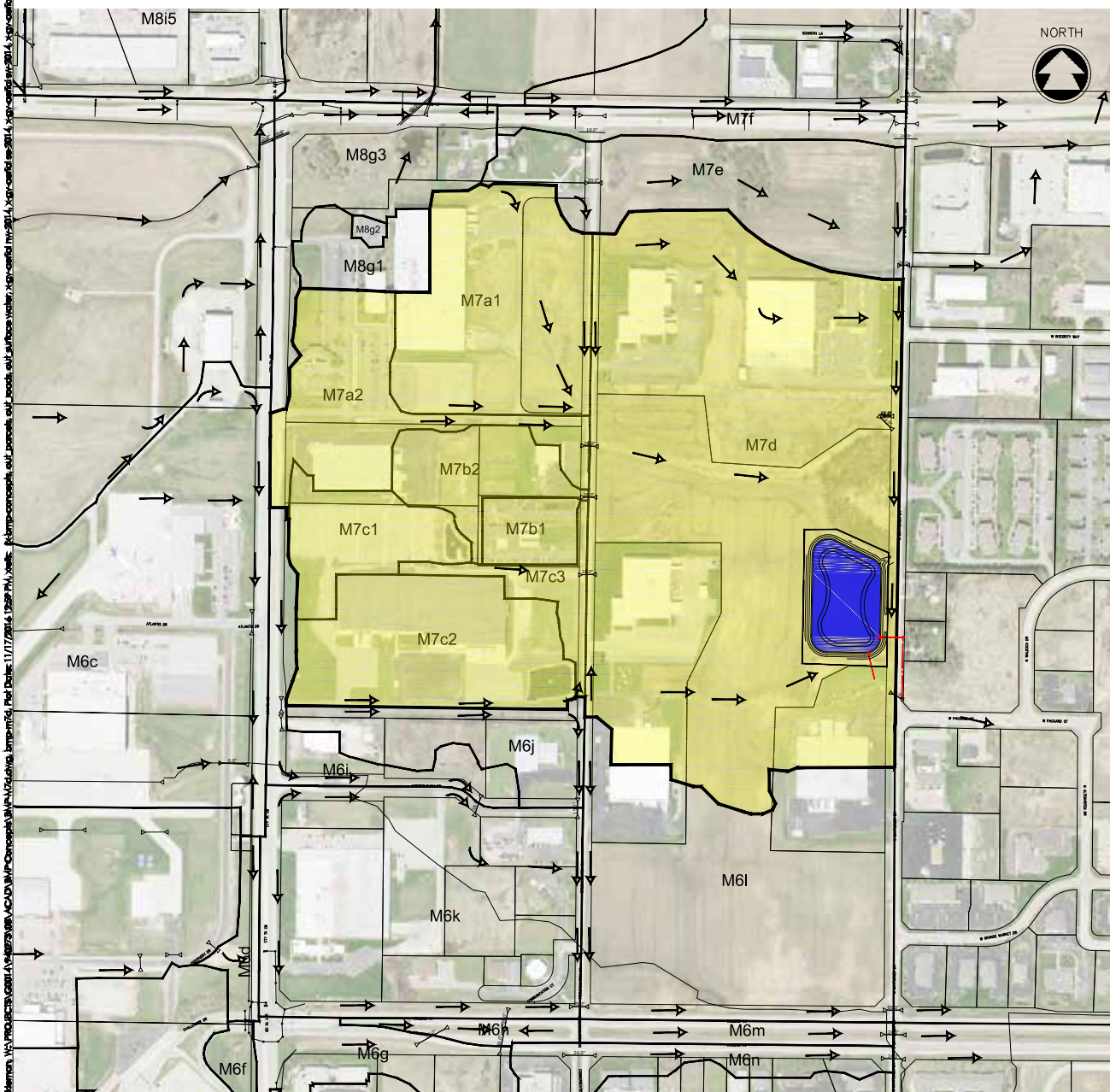
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: MILLER ELECTRIC POND	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: FOX RIVER	Tributary Drainage Area IDs: M7a1-2, M7b1-2, M7c1-3, M7d	Total Drainage Area: 128.4 acres
Imperviousness (Future): 77.6 %	Runoff Curve Number (Future): 93	Water Quality Volume (Future): 12.0 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet Detention Pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to the ditch located north of N Mayflower Dr & W Packard St intersection.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from west ditch of N Mayflower Dr and dry pond to the south into pond via storm sewer.

Site access for future BMP maintenance:

Good. Access from N Mayflower Dr

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, utility conflicts, future business expansion plans

Approx. Size of BMP Retrofit:

2.90 acre permanent pool

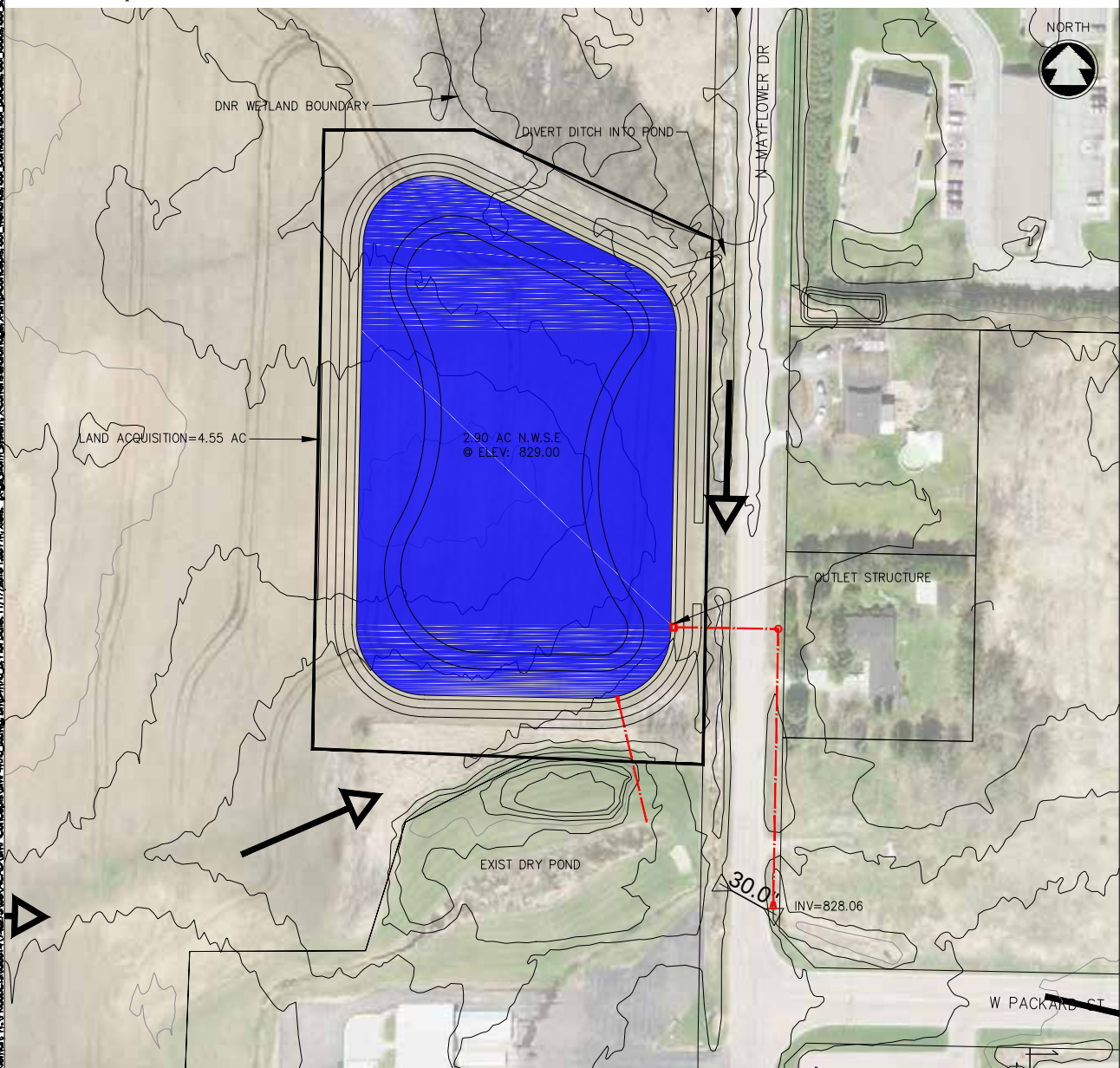
Approx. Land Required (ac):

4.55 acres

Estimated Cost:

\$679,700

Sketch of Proposed BMP Retrofit:



BMP CATCHMENT ID: BMP-M8i5

McM PROJECT NO: G0014-9-14-00273

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: WISCONSIN POND

Initials:
PTK

Sub-watershed ID:
MUD CREEK

Tributary Drainage Area IDs:
M8h, M8j1-5

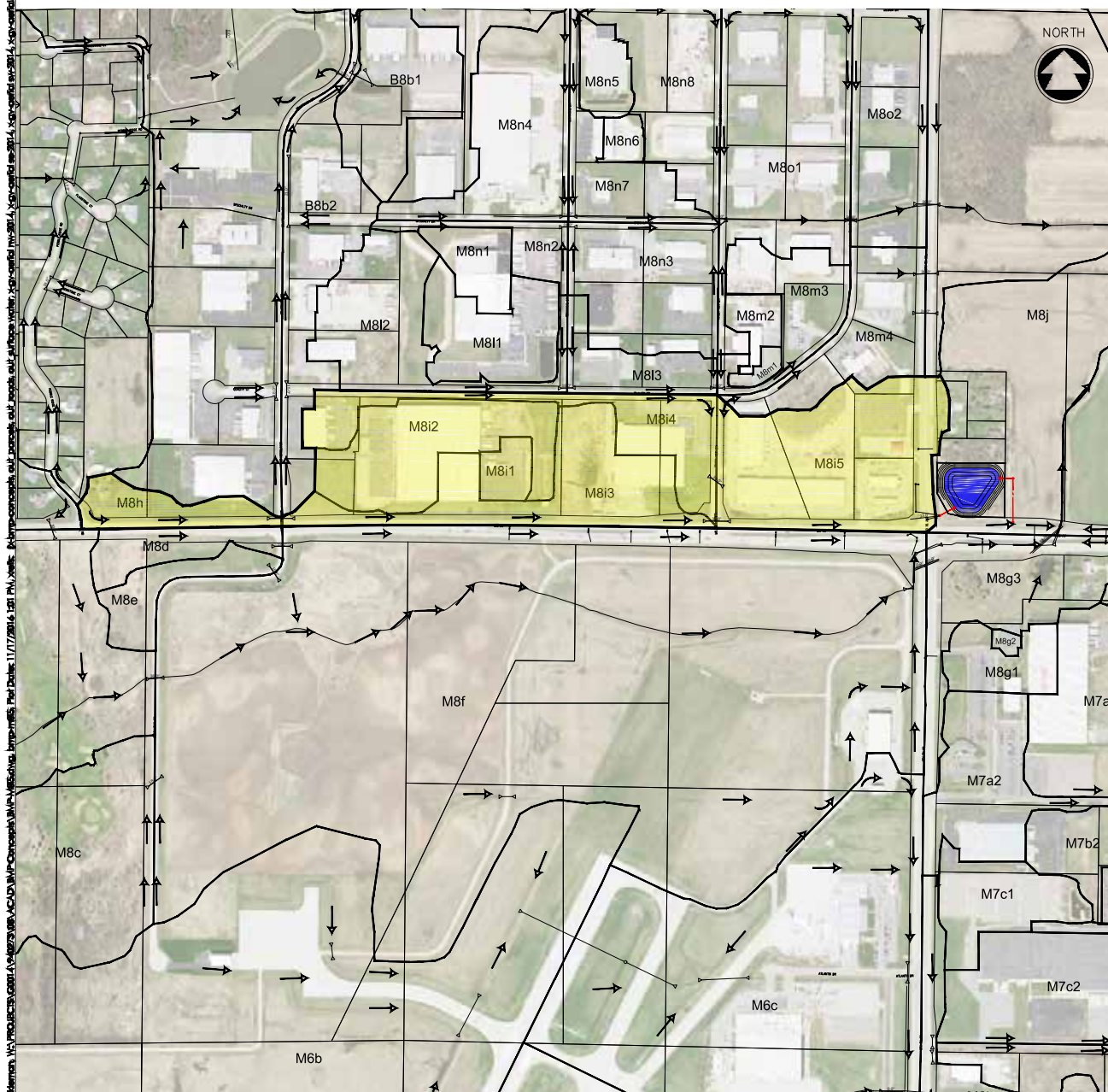
Total Drainage Area:
54.1 acres

Imperviousness (Future):
76.6 %

Runoff Curve Number (Future):	92
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Water Quality Volume (Future):	5.0 acre-feet
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Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): 0 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond outfalls via storm sewer to the north ditch of STH "96".

Infrastructure modifications or flow diversions required for retrofit:

Existing storm sewer from the intersection of CTH "CB" and STH "96" to be diverted into pond.

Site access for future BMP maintenance:

Good. Access from CTH "CB" or STH "96"

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, utility conflicts, existing storm sewer and ditch elevations.

Approx. Size of BMP Retrofit:

1.14 acre permanent pool

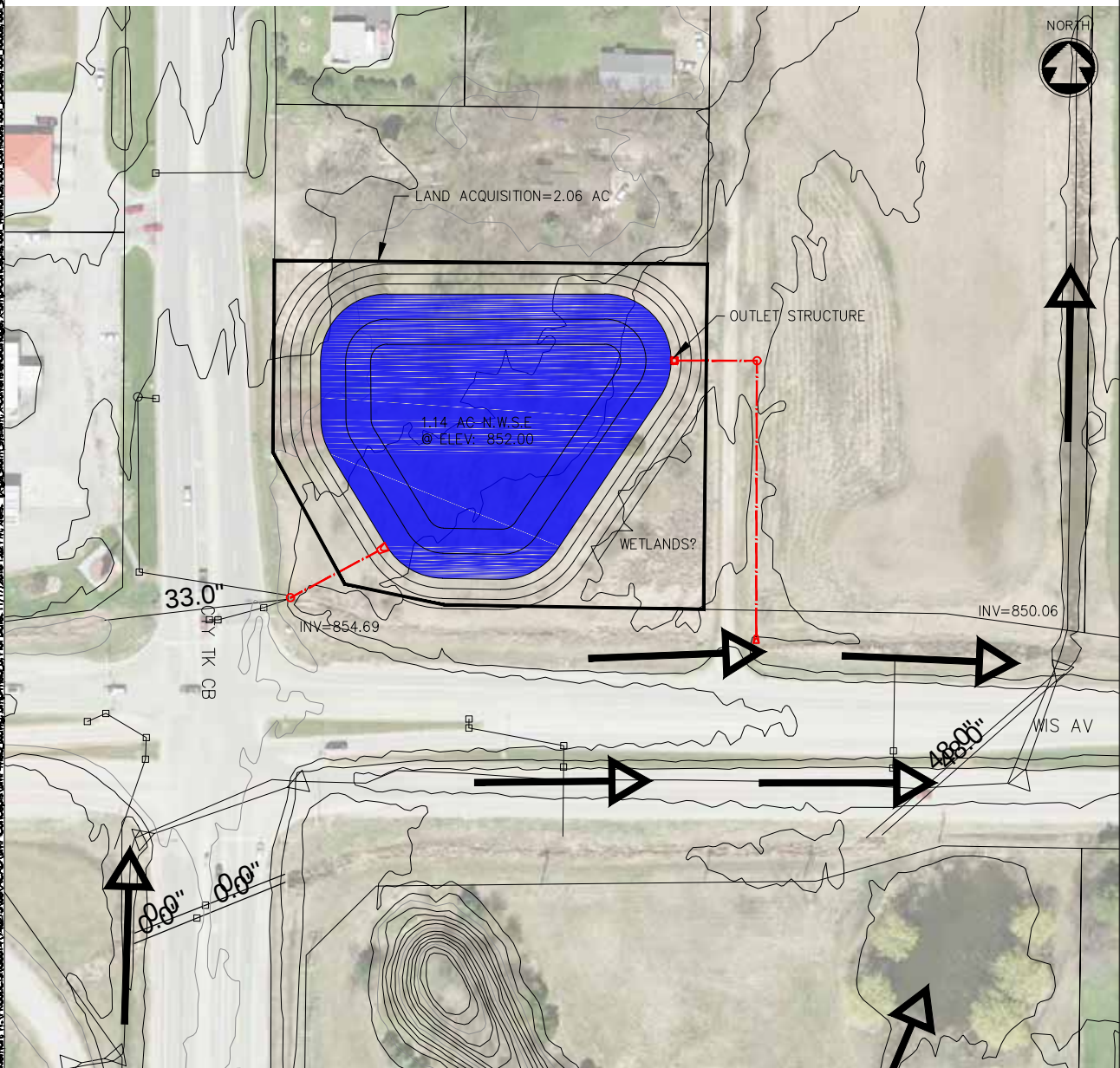
Approx. Land Required (ac):

2.06 acres

Estimated Cost:

\$410,600

Sketch of Proposed BMP Retrofit:



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-M8o2 - Alt 1

McM PROJECT NO: G0014-9-14-00273

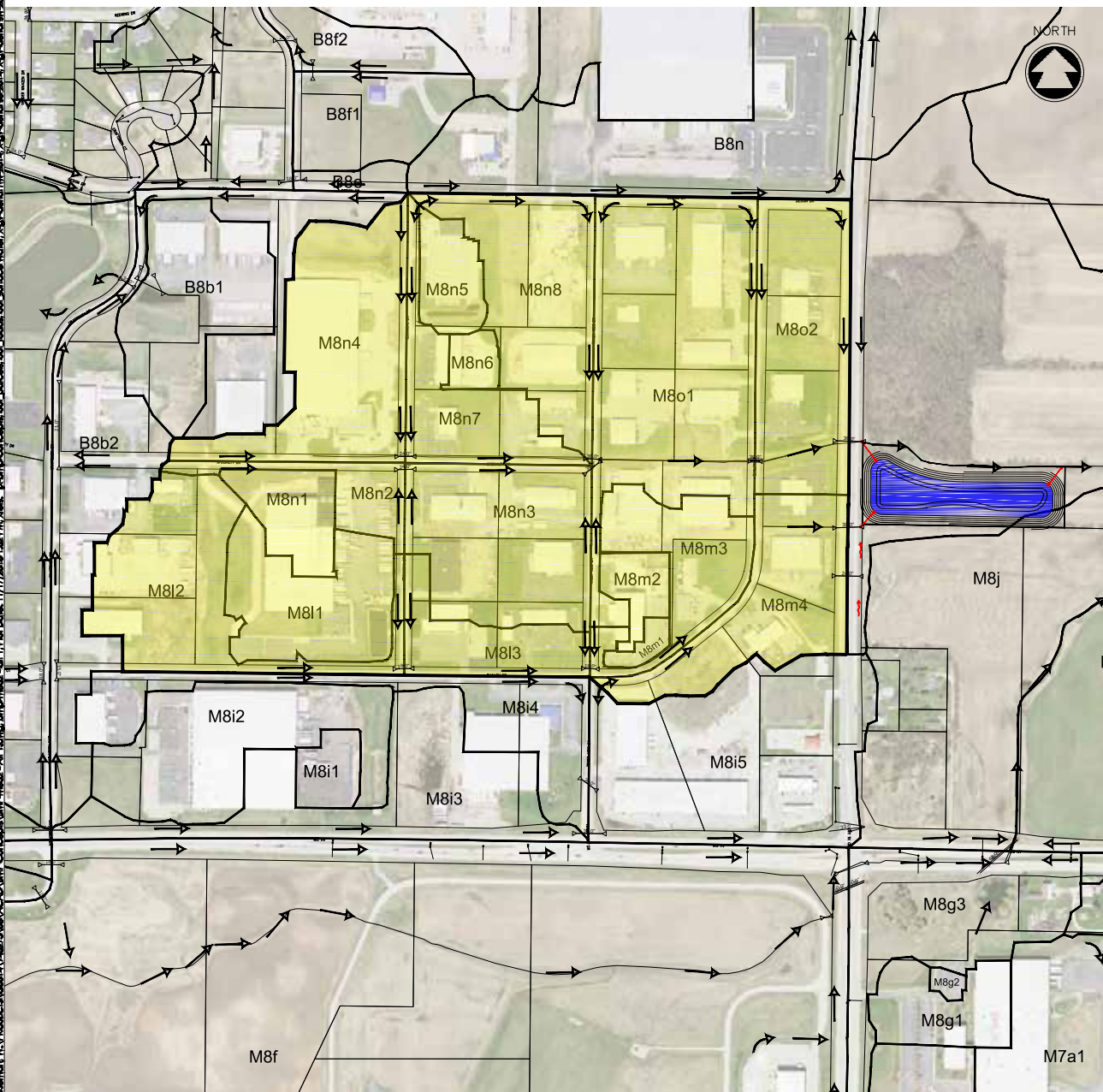
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: BUSINESS PARK POND - ALT 1	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: MUD CREEK	Tributary Drainage Area IDs: M8l1-3, M8m1-4, M8n1-8, M8o1-2,	Total Drainage Area: 118.2 acres
Imperviousness (Future): 80.7 %	Runoff Curve Number (Future): 93	Water Quality Volume (Future): 11.5 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft
Bedrock Depth (in): >80 in
USDA Soil Texture: Silt loam

Remediation: ☐ Yes ☒ No
Historical: ☐ Yes ☒ No
100-Year Floodplain: ☒ Yes ☐ No

Wetland: ☒ Potential ☐ Yes ☐ No
Public Well < 400 ft: ☐ Yes ☒ No
Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond outfalls via storm sewer to the navigable stream to the north.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from CTH "CB" culverts under CTH "CB" to the pond via storm sewer.

Site access for future BMP maintenance:

Good. Access from CTH "CB".

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Navigability, floodplain, wetlands, groundwater, stream invert at outfall

Approx. Size of BMP Retrofit:

2.71 acre permanent pool

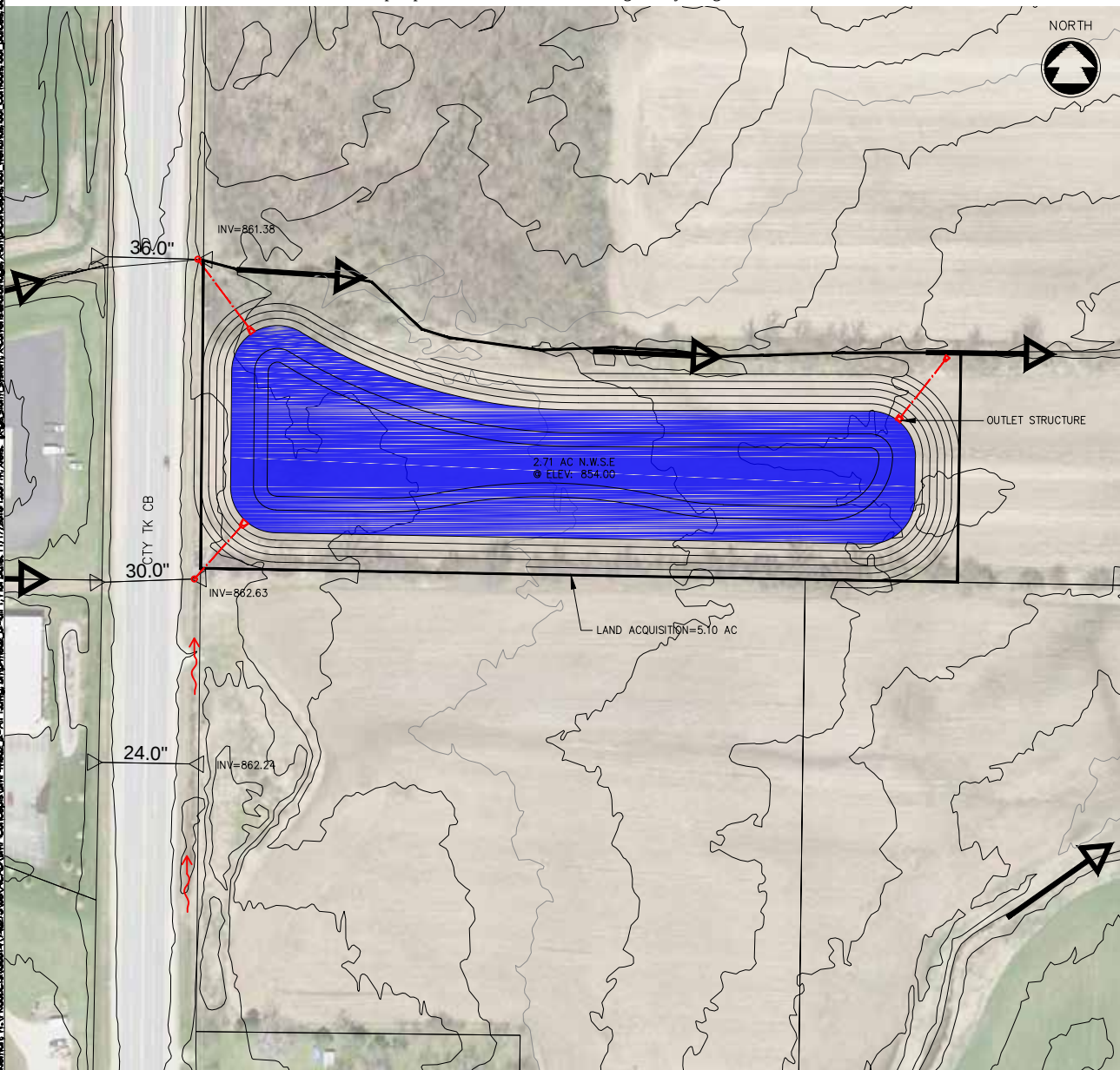
Approx. Land Required (ac):

5.10 acres

Estimated Cost:

\$652,200

Sketch of Proposed BMP Retrofit: NOTE: This proposed BMP assumes navigability begins east of CTH "CB"



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-M8o2 - Alt 2

McM PROJECT NO: G0014-9-14-00273

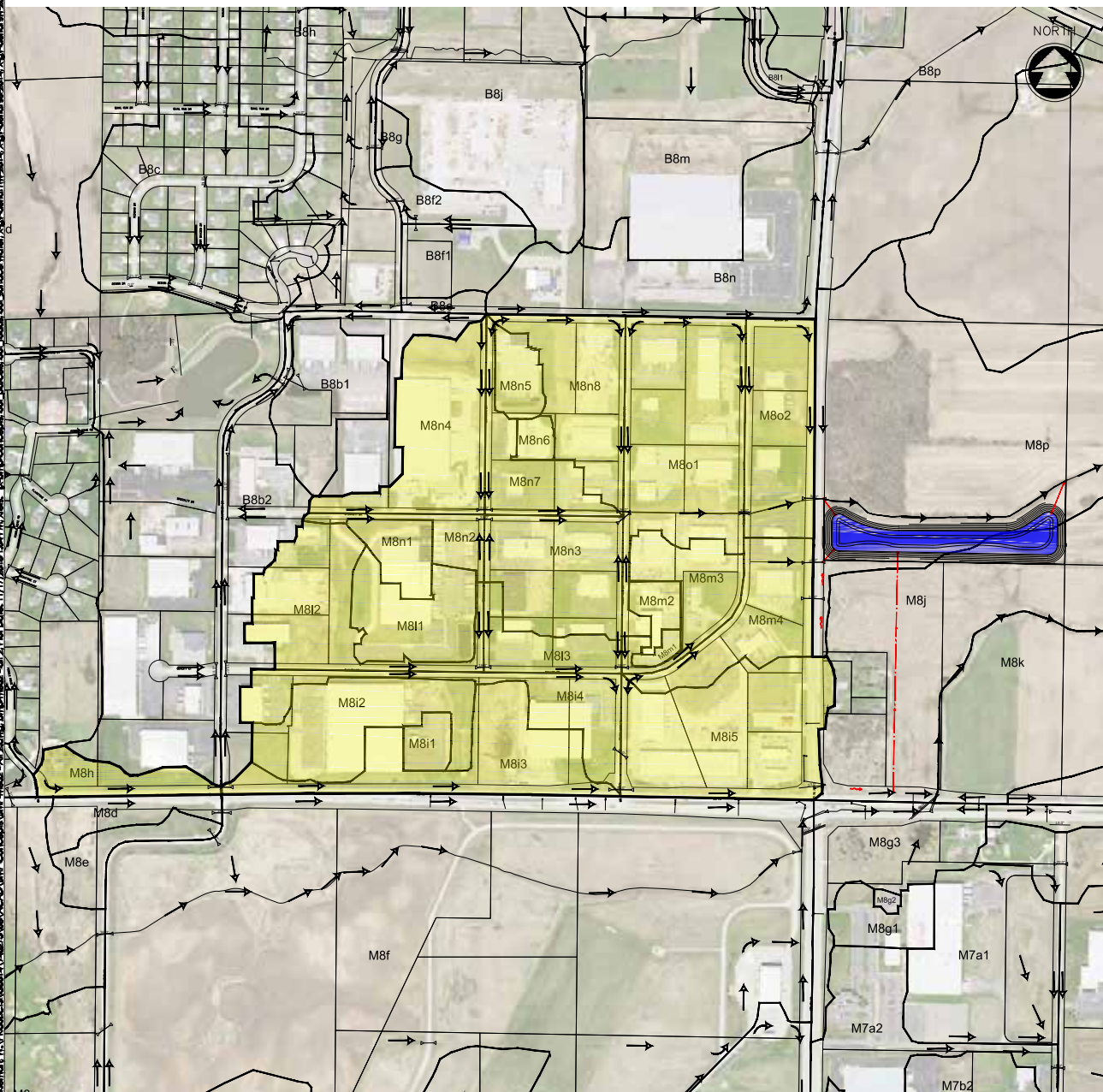
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: BUSINESS PARK POND - ALT 2	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: MUD CREEK	Tributary Drainage Area IDs: M8h,M8i1-5,M8l1-3,M8m1-4,M8n1-8,M8o1-2	Total Drainage Area: 172.2 acres
Imperviousness (Future): 79.4 %	Runoff Curve Number (Future): 93	Water Quality Volume (Future): 16.5 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): 0-6.7 ft
Bedrock Depth (in): >80 in
USDA Soil Texture: Silt loam

Remediation: ☐ Yes ☒ No
Historical: ☐ Yes ☒ No
100-Year Floodplain: ☒ Yes ☐ No

Wetland: ☒ Potential ☐ Yes ☐ No
Public Well < 400 ft: ☐ Yes ☒ No
Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond outfalls via storm sewer to the navigable stream to the north.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from CTH "CB" culverts & storm outfall from CTH "CB" & STH "96" intersection to pond via storm sewer

Site access for future BMP maintenance:

Good. Access from CTH "CB".

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Navigability, floodplain, wetlands, groundwater, stream invert at outfall

Approx. Size of BMP Retrofit:

4.06 acre permanent pool

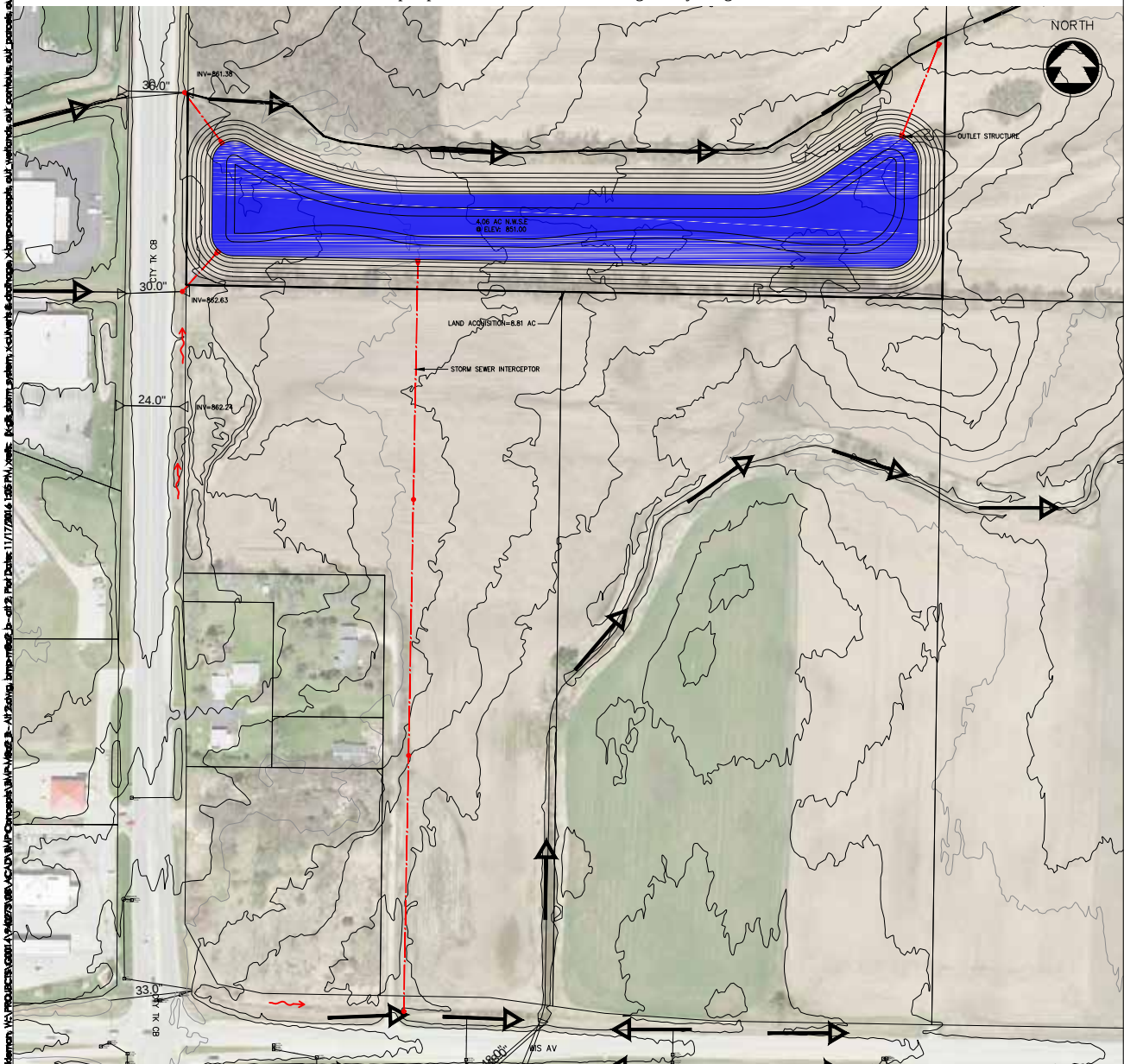
Approx. Land Required (ac):

8.81 acres

Estimated Cost:

\$1,209,300

Sketch of Proposed BMP Retrofit: NOTE: This proposed BMP assumes navigability begins east of CTH "CB"



POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-M9c

McM PROJECT NO: G0014-9-14-00273

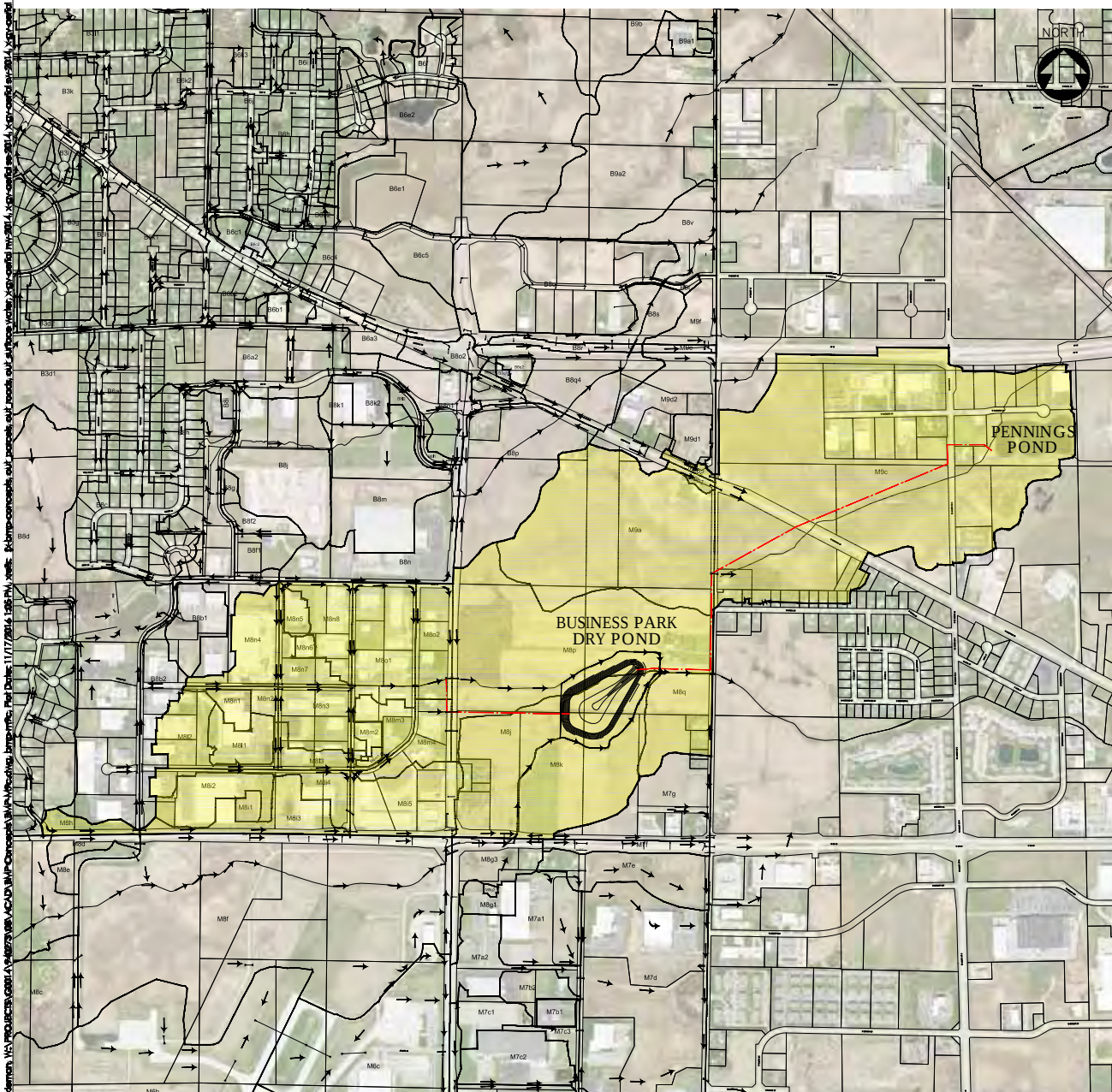
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: PENNINGS POND & BUSINESS PARK DRY POND	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: MUD CREEK	Tributary Drainage Area IDs: M8h - M8q; M9a-c	Total Drainage Area: 504.3 acres
Imperviousness (Future): 78.3 %	Runoff Curve Number (Future): 93	Water Quality Volume (Future): 47.6 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):

Dry & Wet Detention Ponds

Initial BMP Screening

Groundwater Depth (ft): 0-6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain: ☒ Yes ☐ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Dry pond to discharge to storm sewer interceptor that will drain to Grand Chute's Pennings Pond for water quality treatment.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from CTH "CB" culverts under CTH "CB" to the pond via storm sewer. Modify Pennings Pond outlet structure.

Site access for future BMP maintenance:

Good. Access from CTH "CB".

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Navigability, floodplain, wetlands, groundwater, Grand Chute Inter-municipal Agreement

Approx. Size of BMP Retrofit:

105 ac-ft storage (dry pond)

Approx. Land Required (ac):

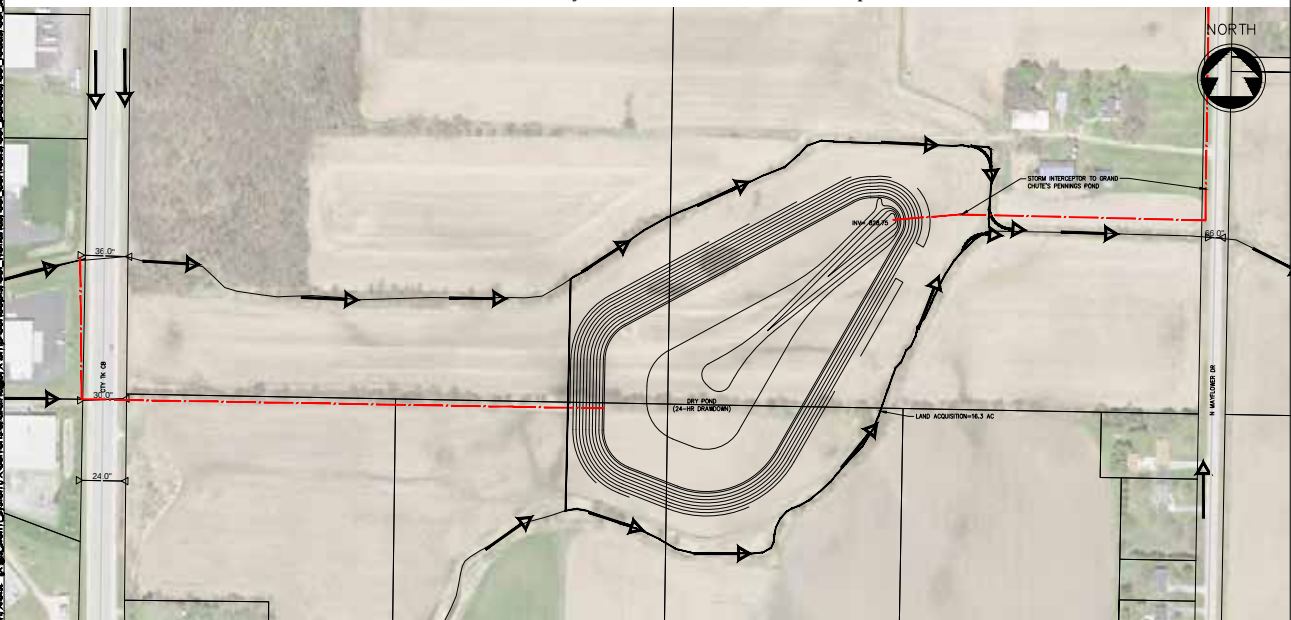
16.3 acres

Estimated Cost:

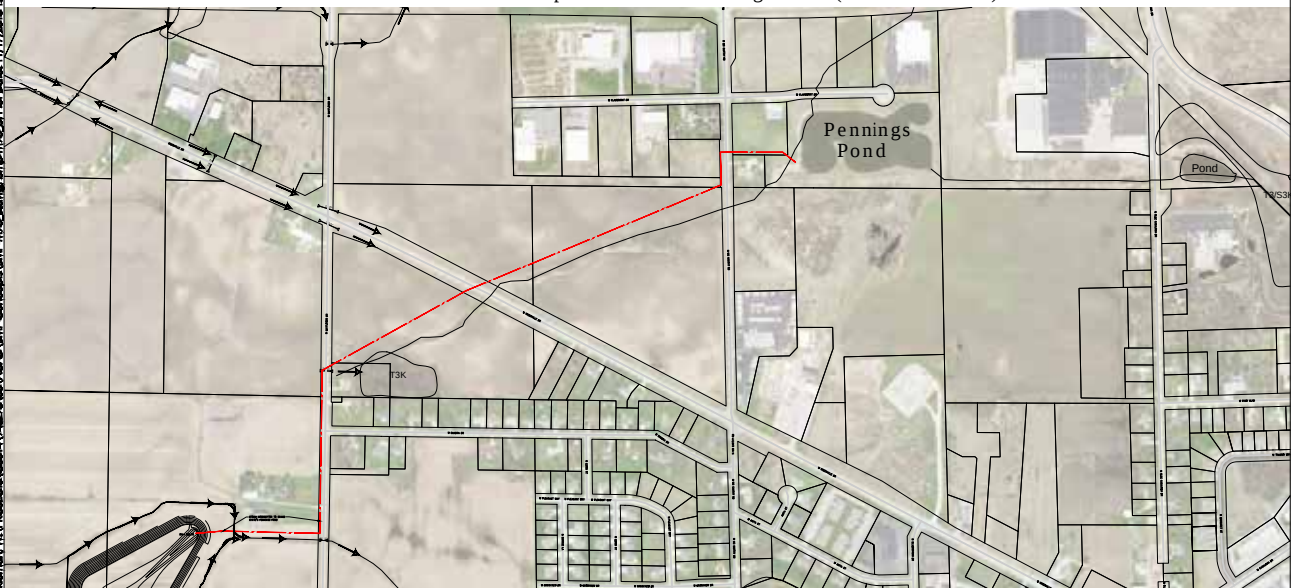
\$3,361,000

Sketch of Proposed BMP Retrofit:

Business Park Dry Pond - Storm Sewer Interceptor



Storm Sewer Interceptor Route to Pennings Pond (T. Grand Chute)



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-R1v1

McM PROJECT NO: G0014-9-14-00273

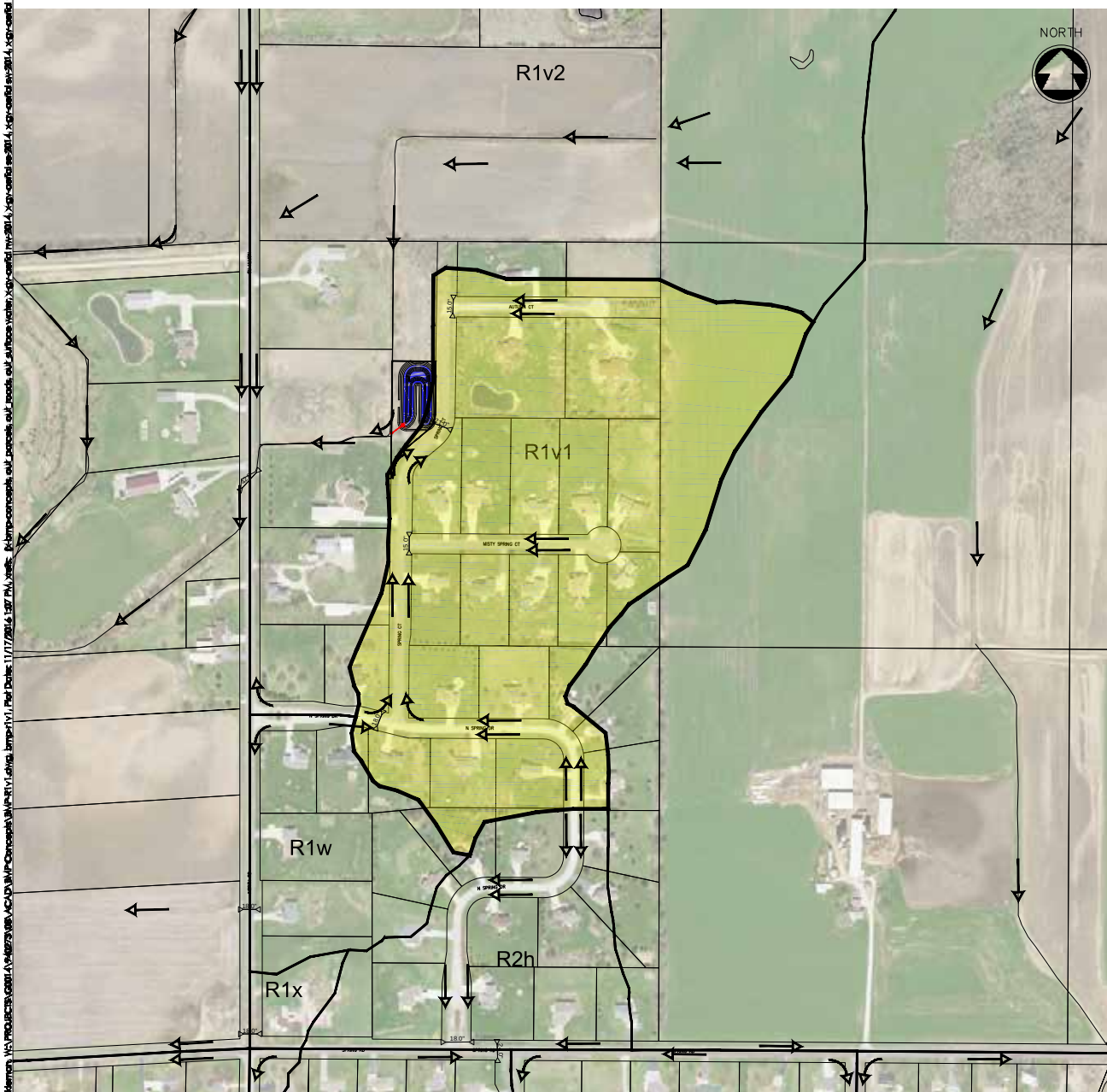
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: SPRING MEADOW POND	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: RAT RIVER	Tributary Drainage Area IDs: R1v1	Total Drainage Area: 38.4 acres
Imperviousness (Future): 21.8 %	Runoff Curve Number (Future): 79	Water Quality Volume (Future): 1.2 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): 0 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☒ Yes ☐ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to discharge via storm sewer to navigable stream to the west.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from Spring Ct culvert and ditches into pond via rip-rap channel.

Site access for future BMP maintenance:

Good. Access from Spring Ct

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, utility conflicts, navigability, floodplain.

Approx. Size of BMP Retrofit:

0.33 acre permanent pool

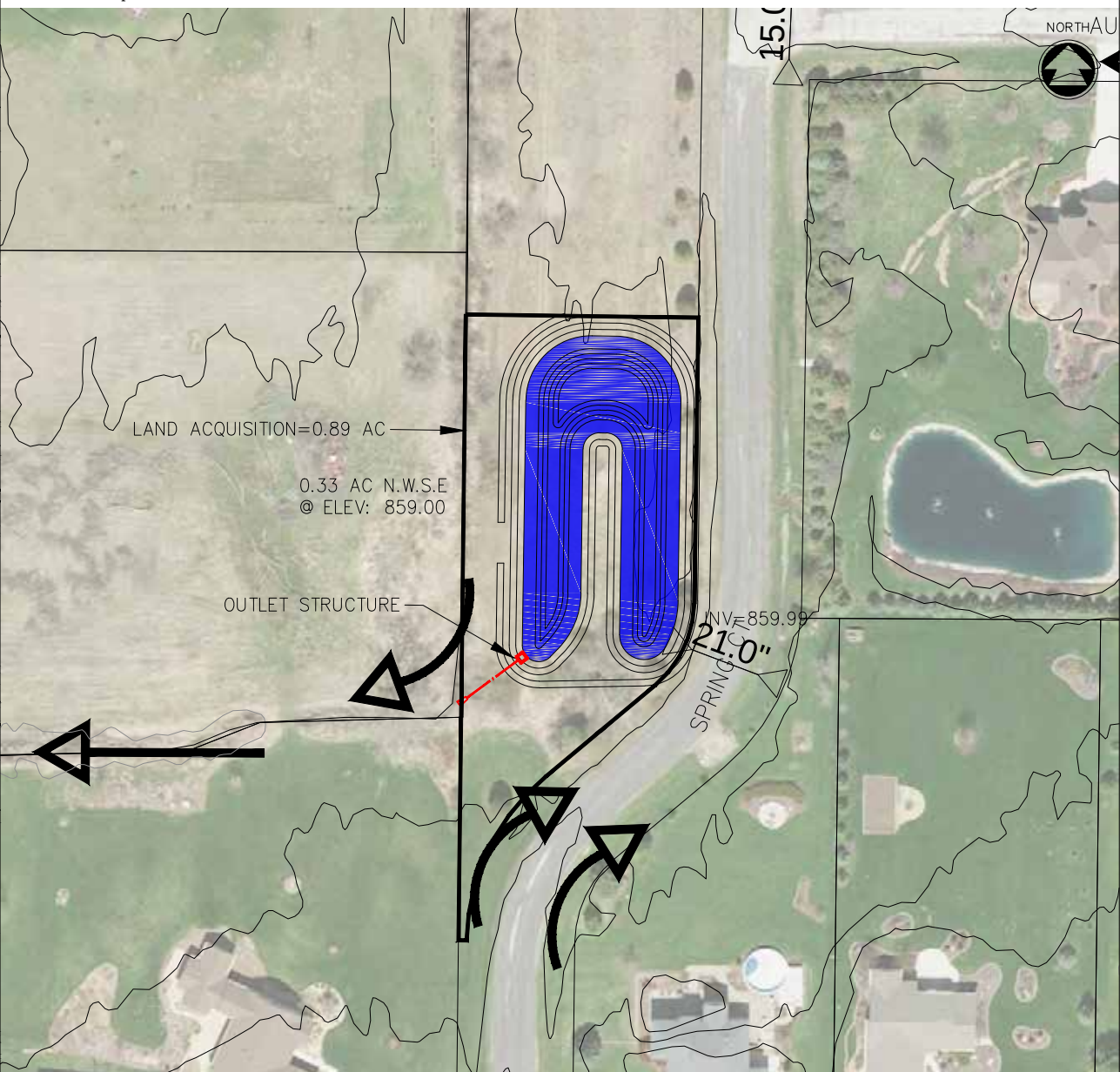
Approx. Land Required (ac):

0.89 acres

Estimated Cost:

\$137,700

Sketch of Proposed BMP Retrofit:



POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-R2i

McM PROJECT NO: G0014-9-14-00273

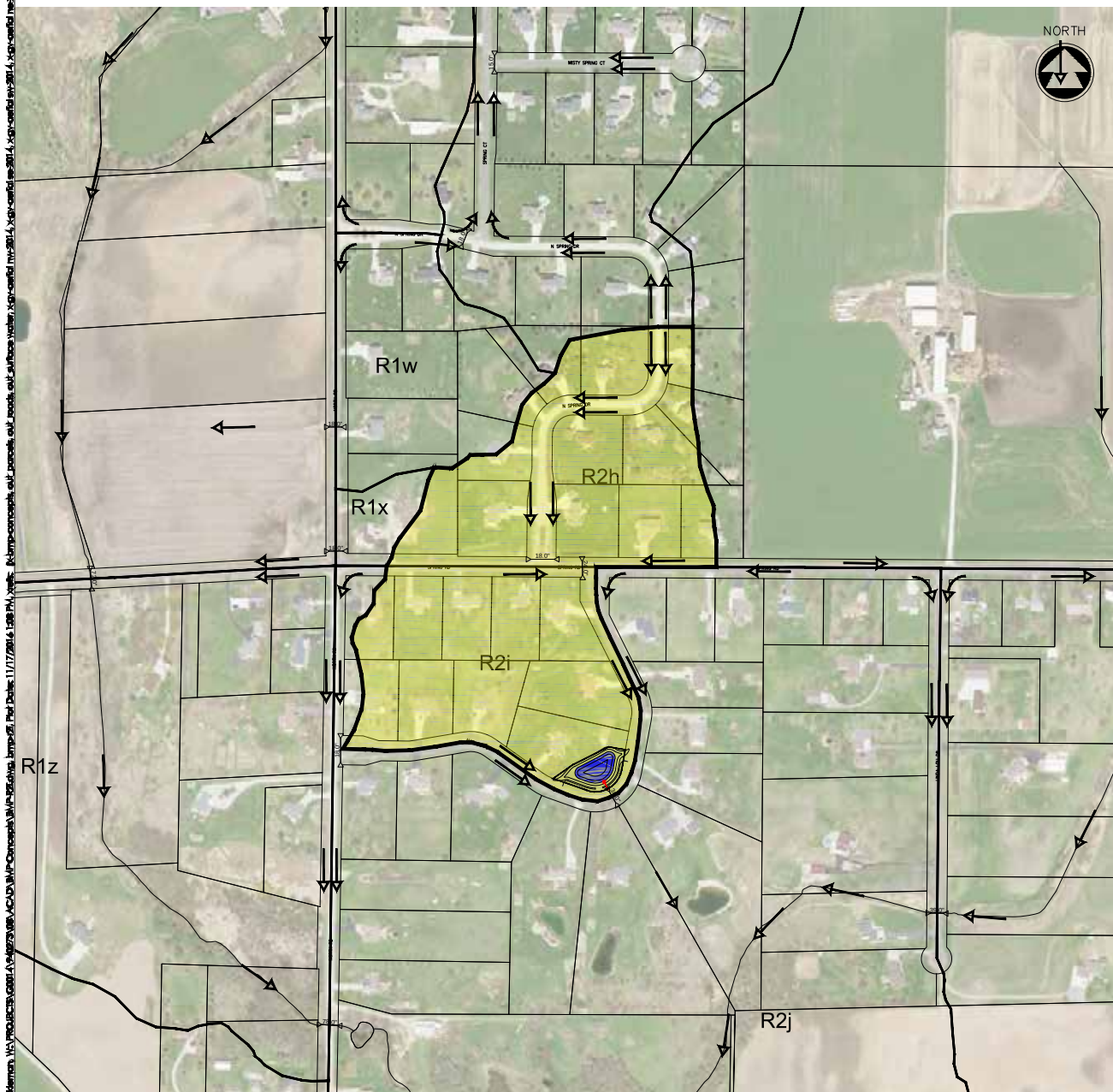
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: HARVEST MEADOWS POND	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: RAT RIVER	Tributary Drainage Area IDs: R2h, R2i	Total Drainage Area: 25.7 acres
Imperviousness (Future): 19.0 %	Runoff Curve Number (Future): 79	Water Quality Volume (Future): 0.7 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain: ☐ Yes ☒ No

Wetland: ☐ Potential ☐ Yes ☒ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to discharge via storm sewer to the existing 30" culvert under Harvest Dr

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from Harvest Dr ditches into pond

Site access for future BMP maintenance:

Good. Access from Harvest Dr

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Utility conflicts, wetlands (artificial-ditch?)

Approx. Size of BMP Retrofit:

0.20 acre permanent pool

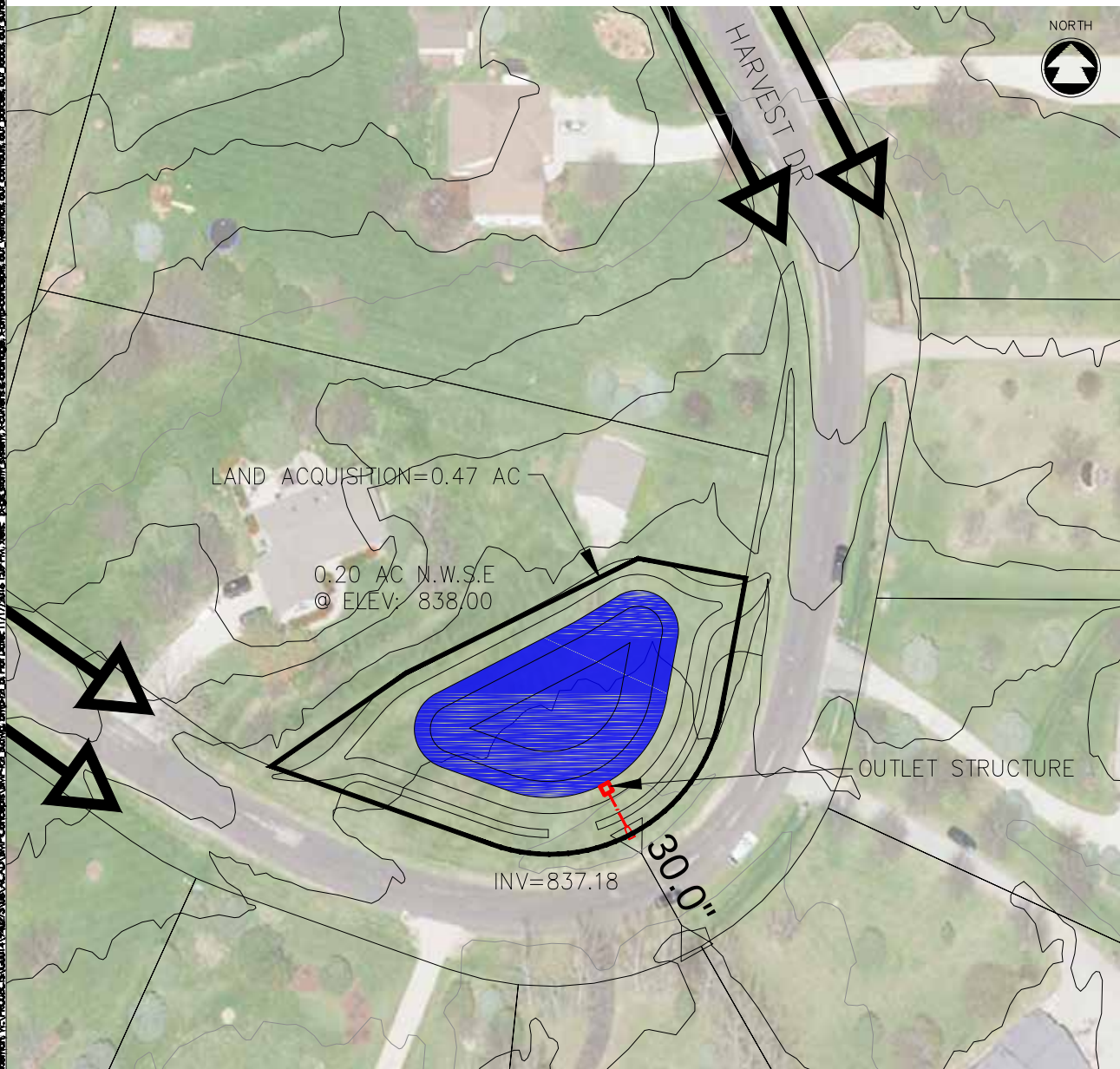
Approx. Land Required (ac):

0.47 acres

Estimated Cost:

\$114,500

Sketch of Proposed BMP Retrofit:



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-R2n

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: BUMAN POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
RAT RIVER

Tributary Drainage Area IDs:
R2n

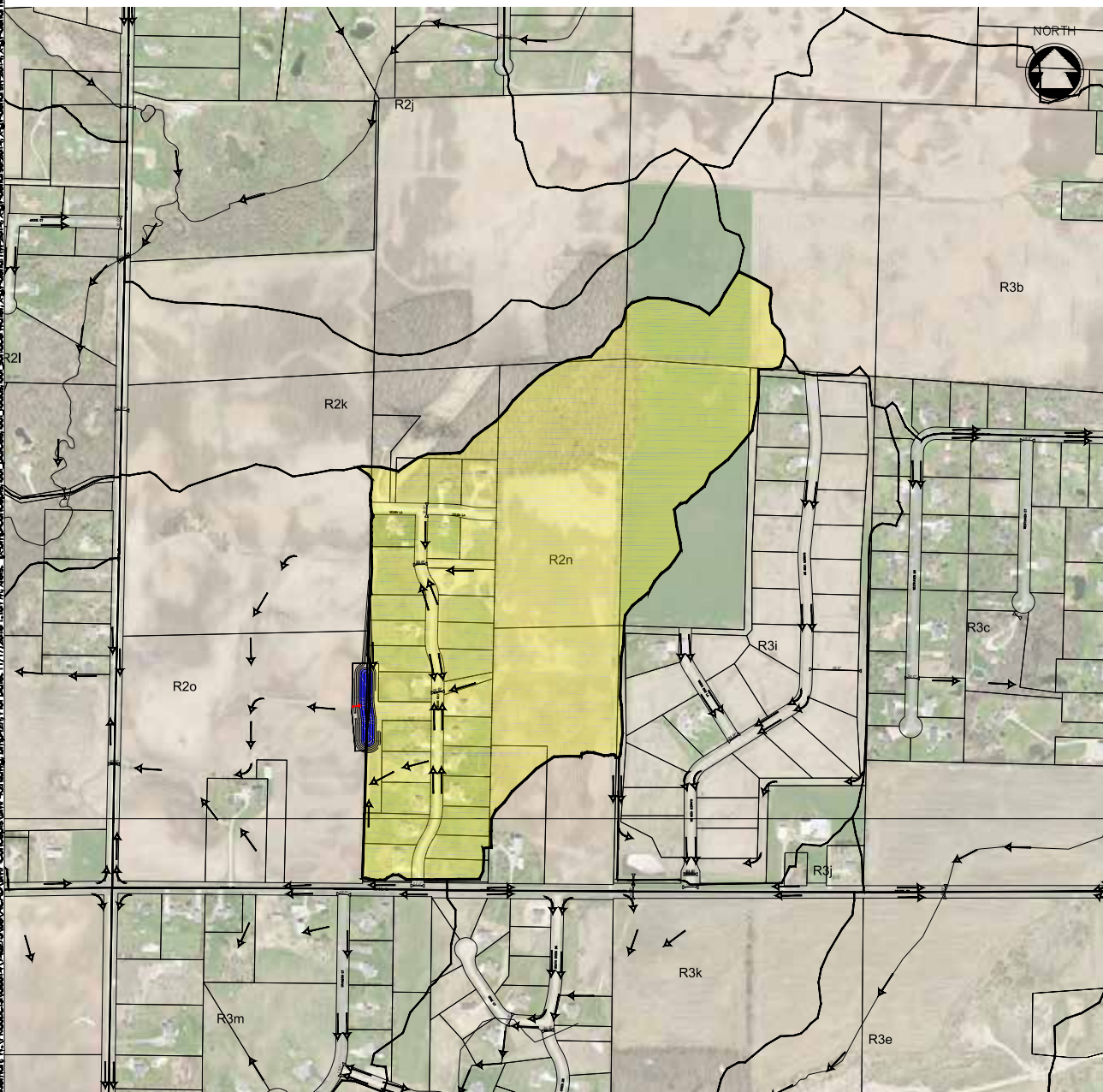
Total Drainage Area:
87.5 acres

Imperviousness (Future):
30.9 %

Runoff Curve Number (Future):
81

Water Quality Volume (Future):
3.6 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): 0-6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to discharge via storm sewer to drainage way to the west.

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from the existing dry pond to the north into pond via a grass swale. Convert/expand south dry pond to a wet pond.

Site access for future BMP maintenance:

Good. Access from Buman Way

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, utility conflicts, easements/land acquisition

Approx. Size of BMP Retrofit:

0.67 acre permanent pool

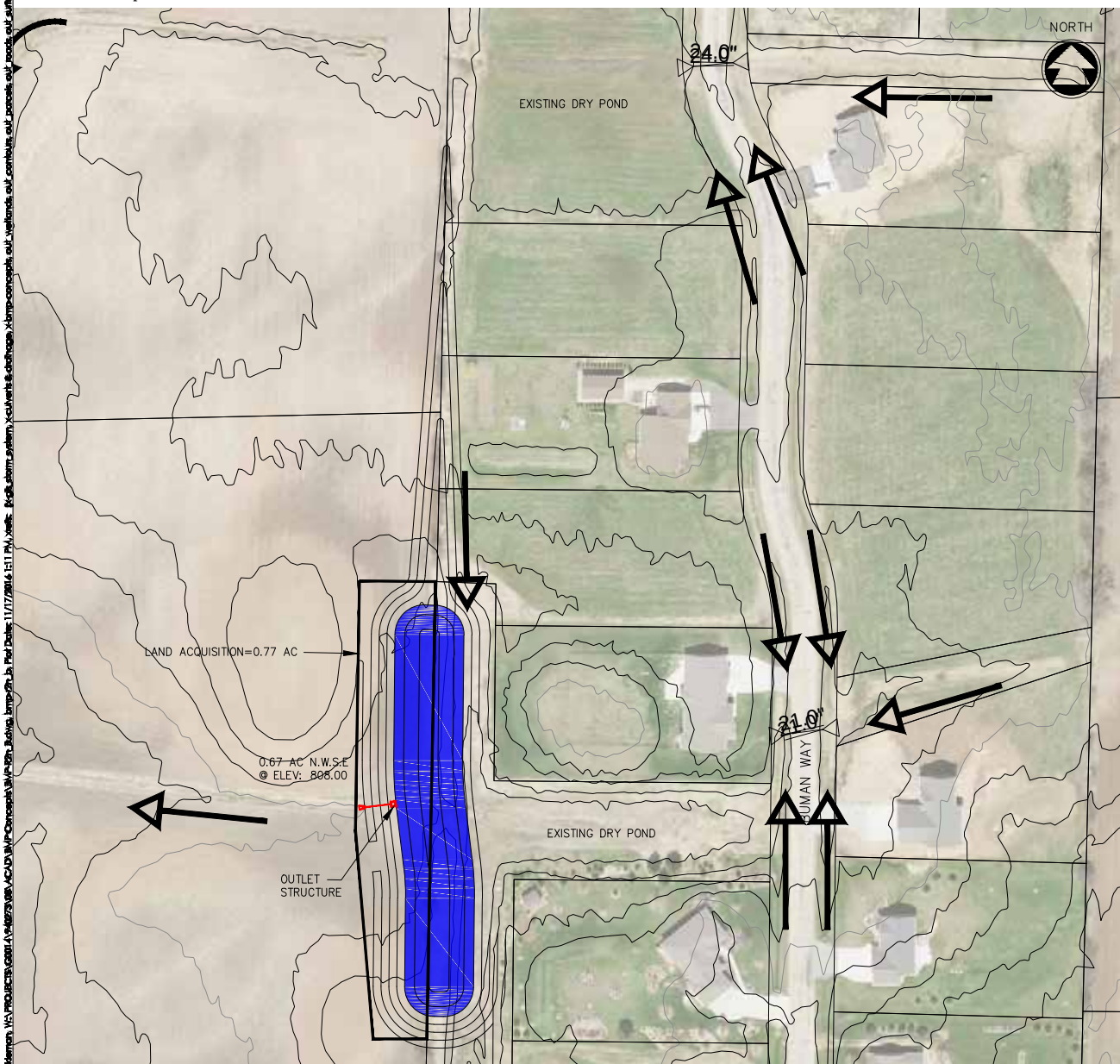
Approx. Land Required (ac):

0.77 acres

Estimated Cost:

\$208,700

Sketch of Proposed BMP Retrofit:



McMAHON

ENGINEERS ARCHITECTS
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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-R3c

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: JULIUS POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
RAT RIVER

Tributary Drainage Area IDs:
R3a1-6, R3b, R3c

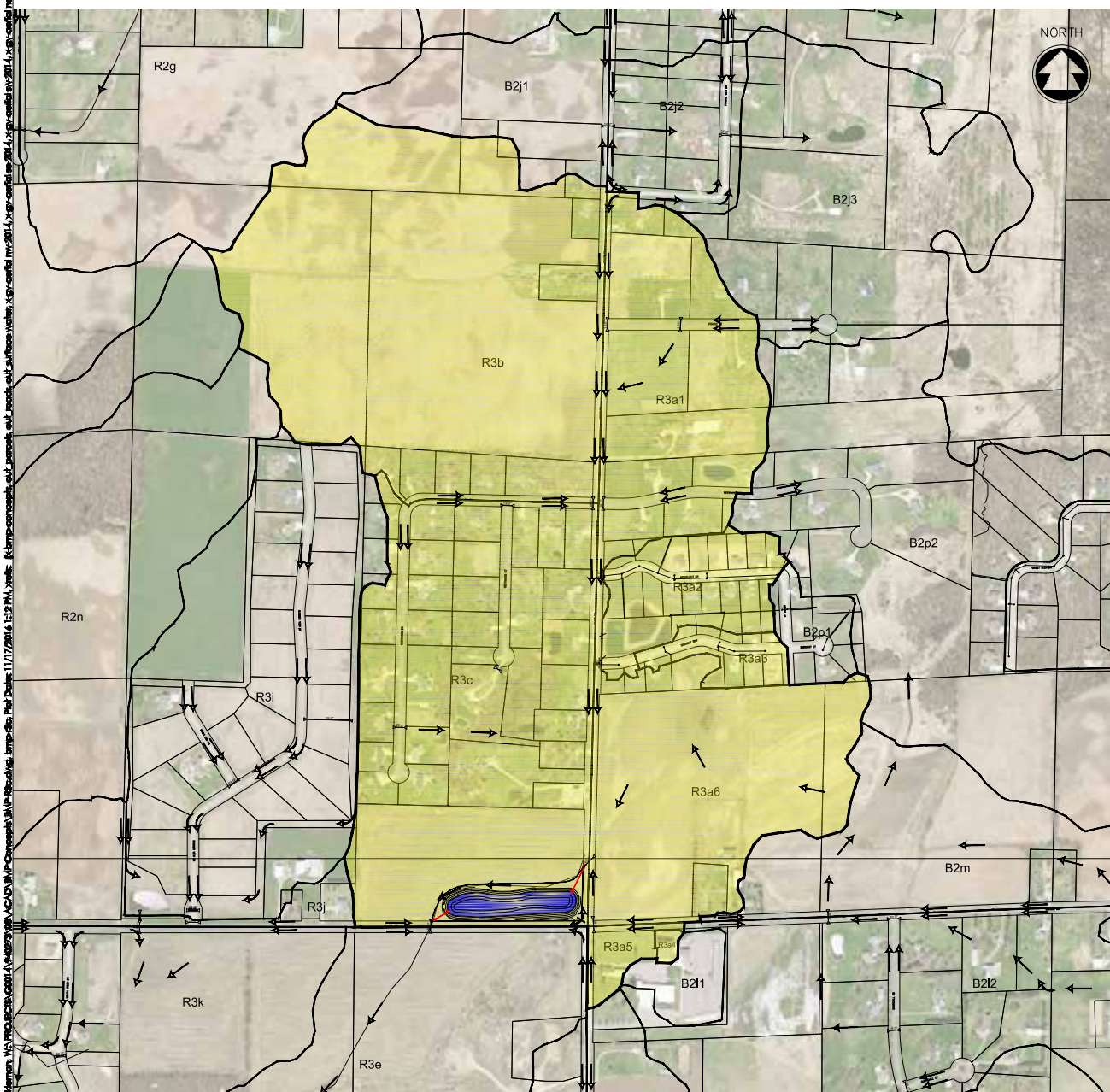
Total Drainage Area:
258.6 acres

Imperviousness (Future):
25.9 %

Runoff Curve Number (Future):
80

Water Quality Volume (Future):
9.2 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain: ☒ Yes ☐ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall to 48" culvert under School Rd

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from Julius Dr ditches and 48" culvert into pond via storm sewer.

Site access for future BMP maintenance:

Good. Access from Julius Dr or School Rd

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Stream navigability, wetlands, groundwater, utility conflicts, floodplain

Approx. Size of BMP Retrofit:

1.95 acre permanent pool

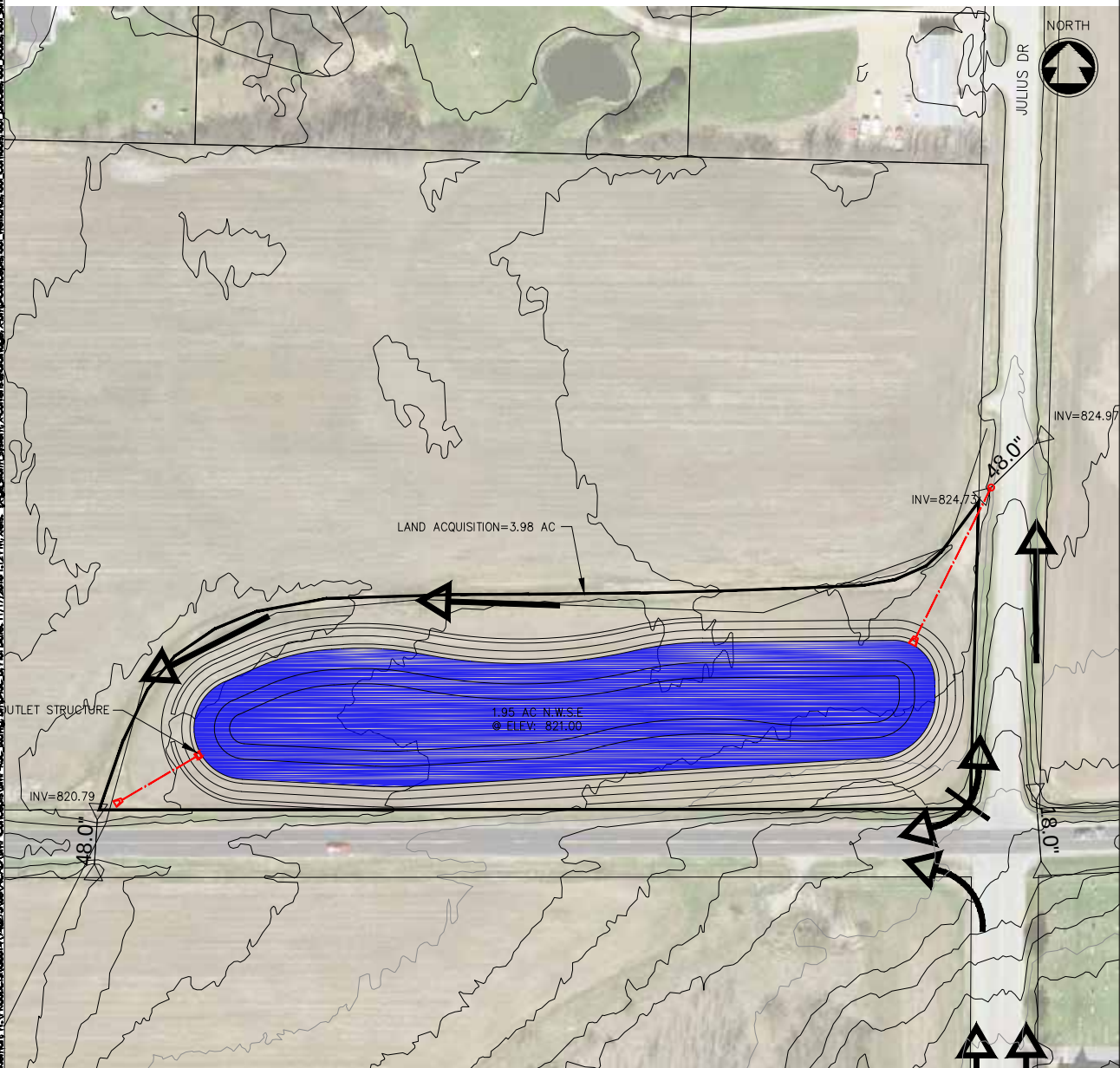
Approx. Land Required (ac):

3.98 acres

Estimated Cost:

\$561,300

Sketch of Proposed BMP Retrofit:



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-R3m

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: NORTH ROAD POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
RAT RIVER

Tributary Drainage Area IDs:
R3m, R3n

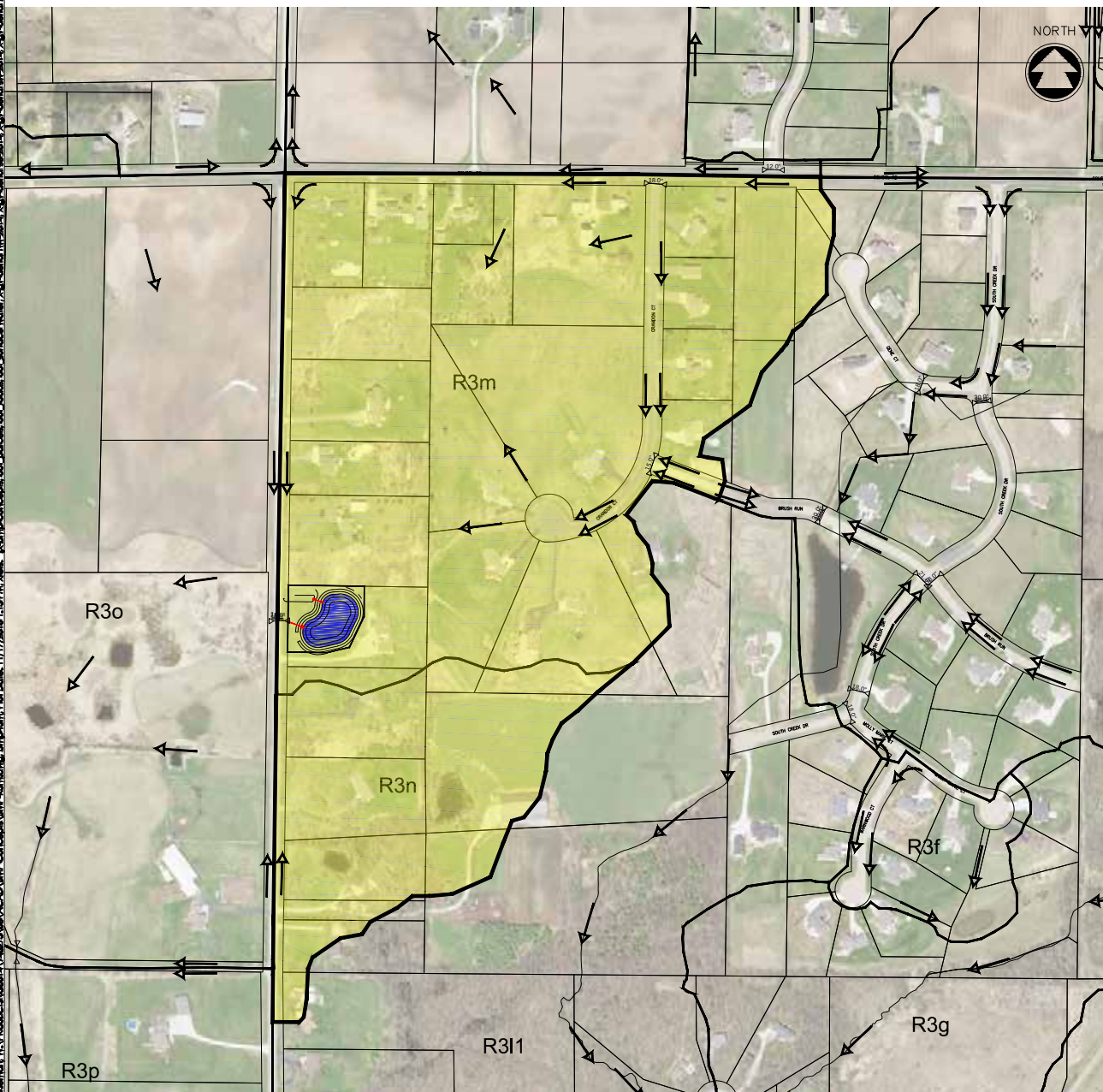
Total Drainage Area:
73.8 acres

Imperviousness (Future):
10.4 %

Runoff Curve Number (Future):
76

Water Quality Volume (Future):
1.3 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): 0 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☐ Potential ☒ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to discharge via storm sewer to the culverts under North Rd

Infrastructure modifications or flow diversions required for retrofit:

Convert existing landscape pond into wet detention pond. Divert flows from wetland/drainage way into pond

Site access for future BMP maintenance:

Good. Access from North Rd

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, feasibility of converting landscape pond to a wet detention pond

Approx. Size of BMP Retrofit:

0.51 acre permanent pool

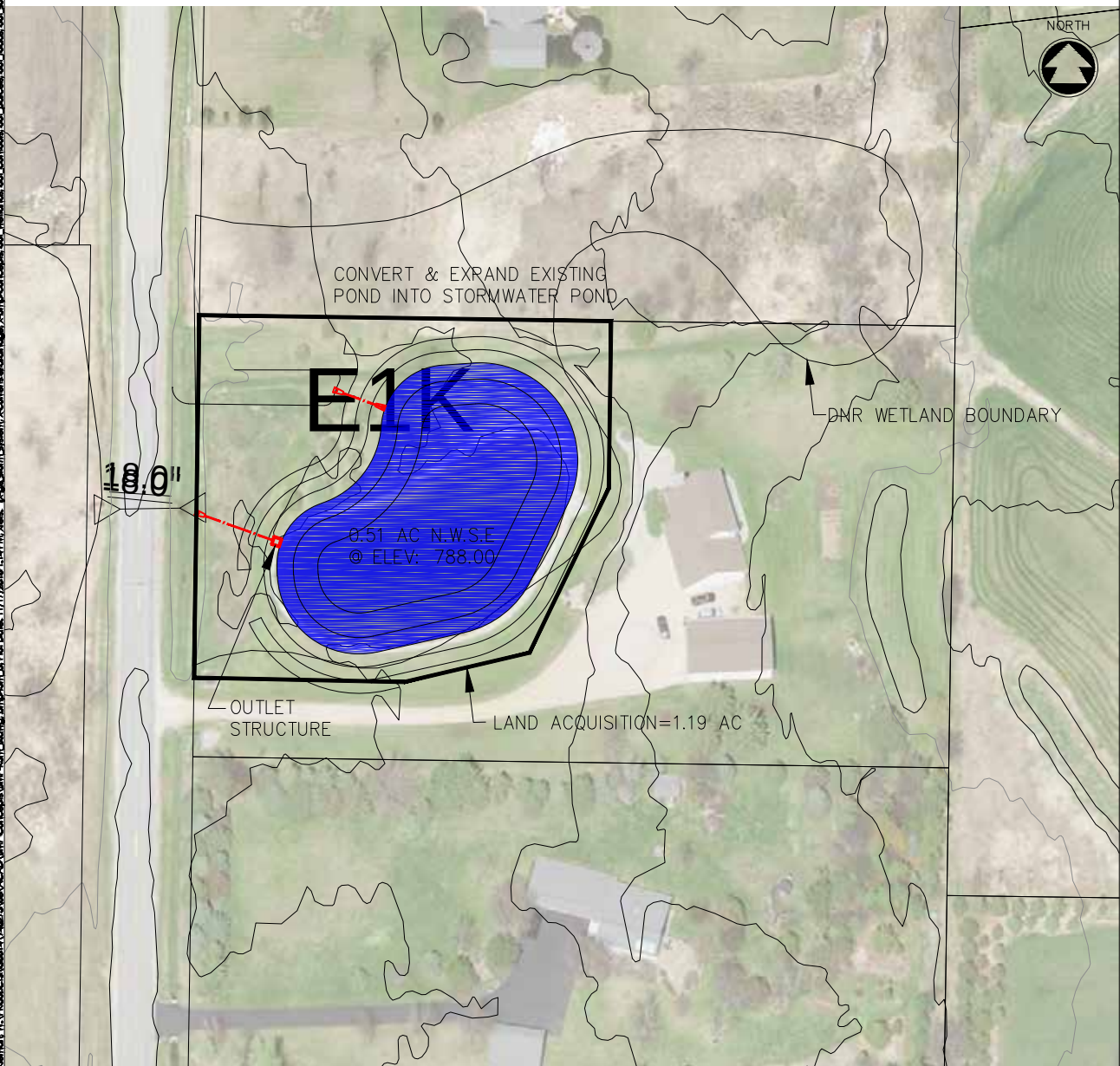
Approx. Land Required (ac):

1.19 acres

Estimated Cost:

\$150,800

Sketch of Proposed BMP Retrofit:



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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-R4c

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: CHARLEEN POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
RAT RIVER

Tributary Drainage Area IDs:
R4c

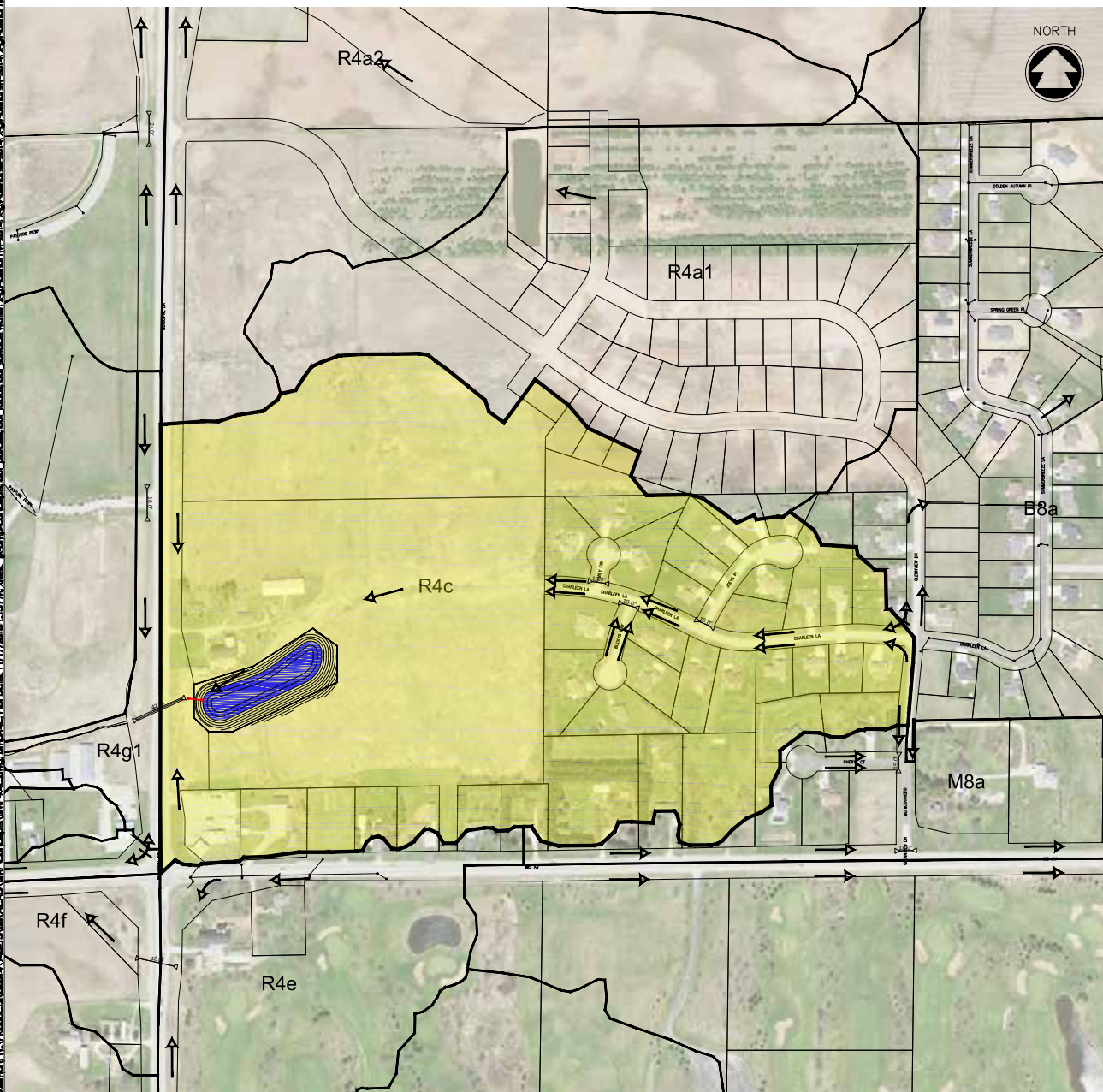
Total Drainage Area:
82.3 acres

Imperviousness (Future):
45.8 %

Runoff Curve Number (Future):
85

Water Quality Volume (Future):
4.8 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to the dual 42" culverts under STH "76"

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from drainage way into pond in northeast corner via a rip-rap channel

Site access for future BMP maintenance:

Good. Access from STH "76"

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Stream navigability, wetlands, groundwater, utility conflicts, future development plans

Approx. Size of BMP Retrofit:

1.11 acre permanent pool

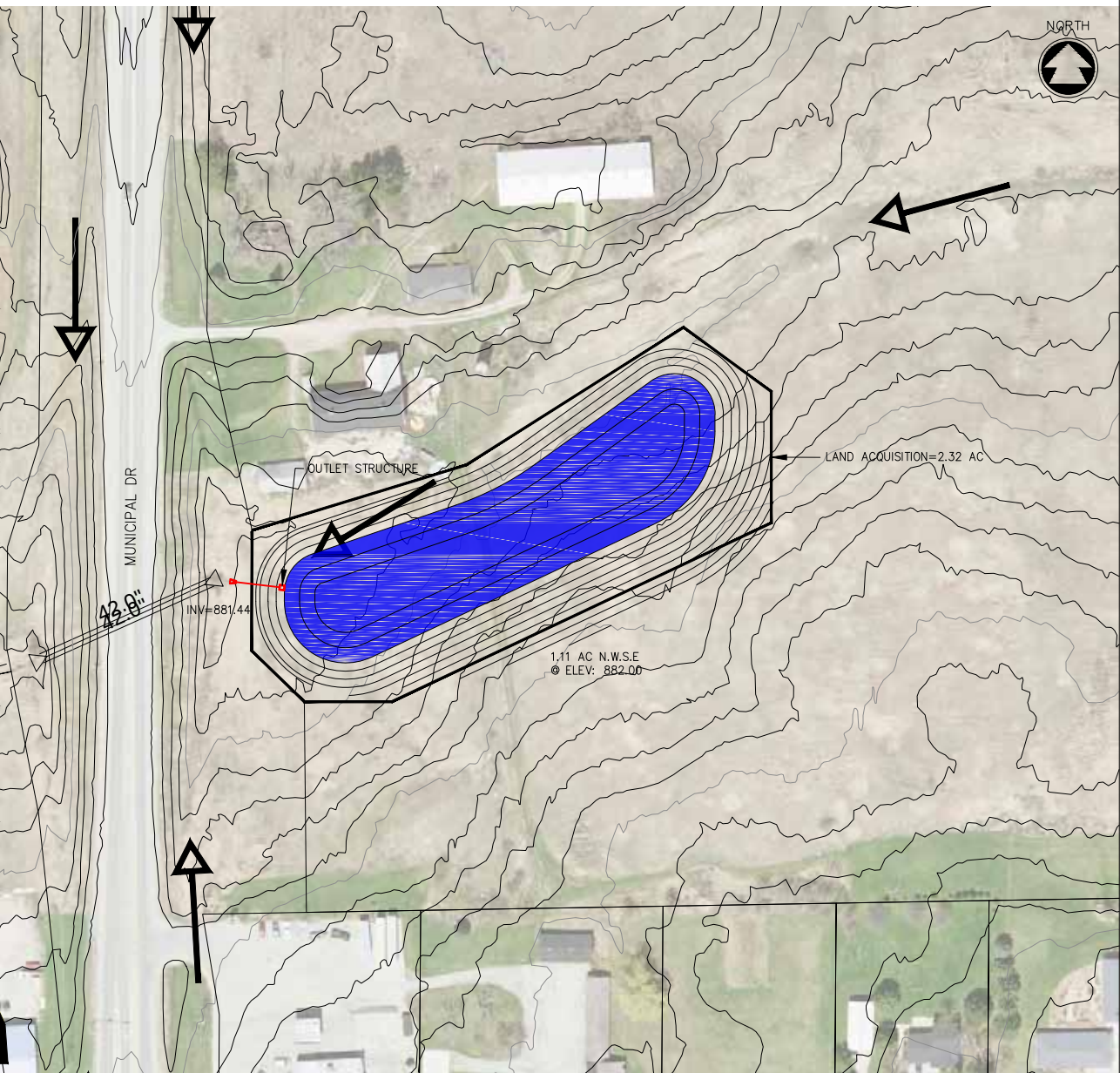
Approx. Land Required (ac):

2.32 acres

Estimated Cost:

\$337,400

Sketch of Proposed BMP Retrofit:



McMAHON

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POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-R7d

McM PROJECT NO: G0014-9-14-00273

SITE INFORMATION:

Municipality:
TOWN OF GREENVILLE

Date:
OCTOBER, 2015

Proposed BMP Name: HICKORY MEADOWS POND

Initials:
PTK

DRAINAGE AREA:

Sub-watershed ID:
RAT RIVER

Tributary Drainage Area IDs:
R7a, R7b, R7c, R7d

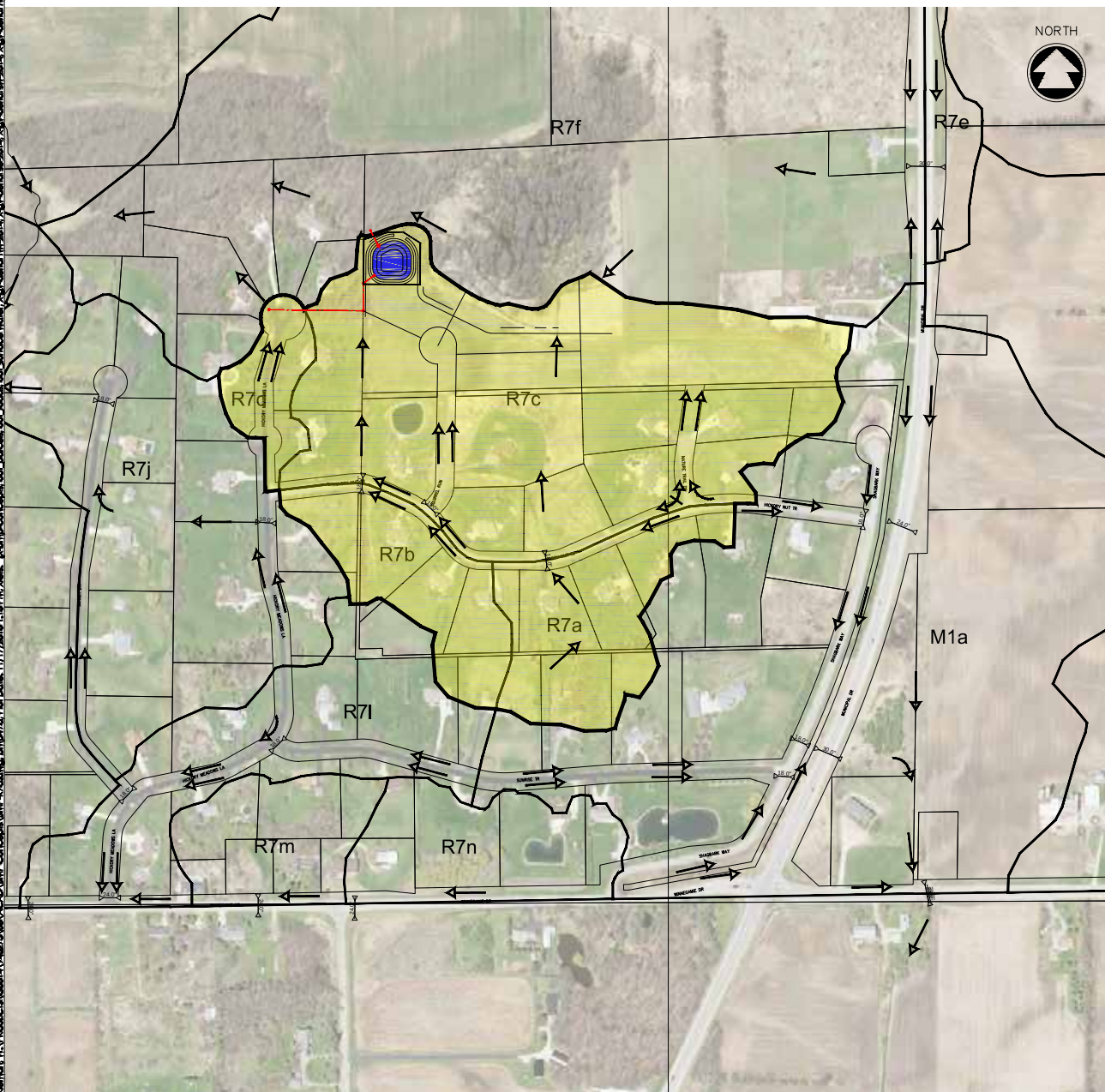
Total Drainage Area:
52.8 acres

Imperviousness (Future):
17.0 %

Runoff Curve Number (Future):
78

Water Quality Volume (Future):
1.3 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): 0-6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to the drainage way/wetland to the north

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from drainage way and Hickory Meadows Ln ditches into pond via storm sewer

Site access for future BMP maintenance:

Fair. Access anticipated through easement from future residential development

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, utility conflicts, future development plans, easement acquisition

Approx. Size of BMP Retrofit:

0.38 acre permanent pool

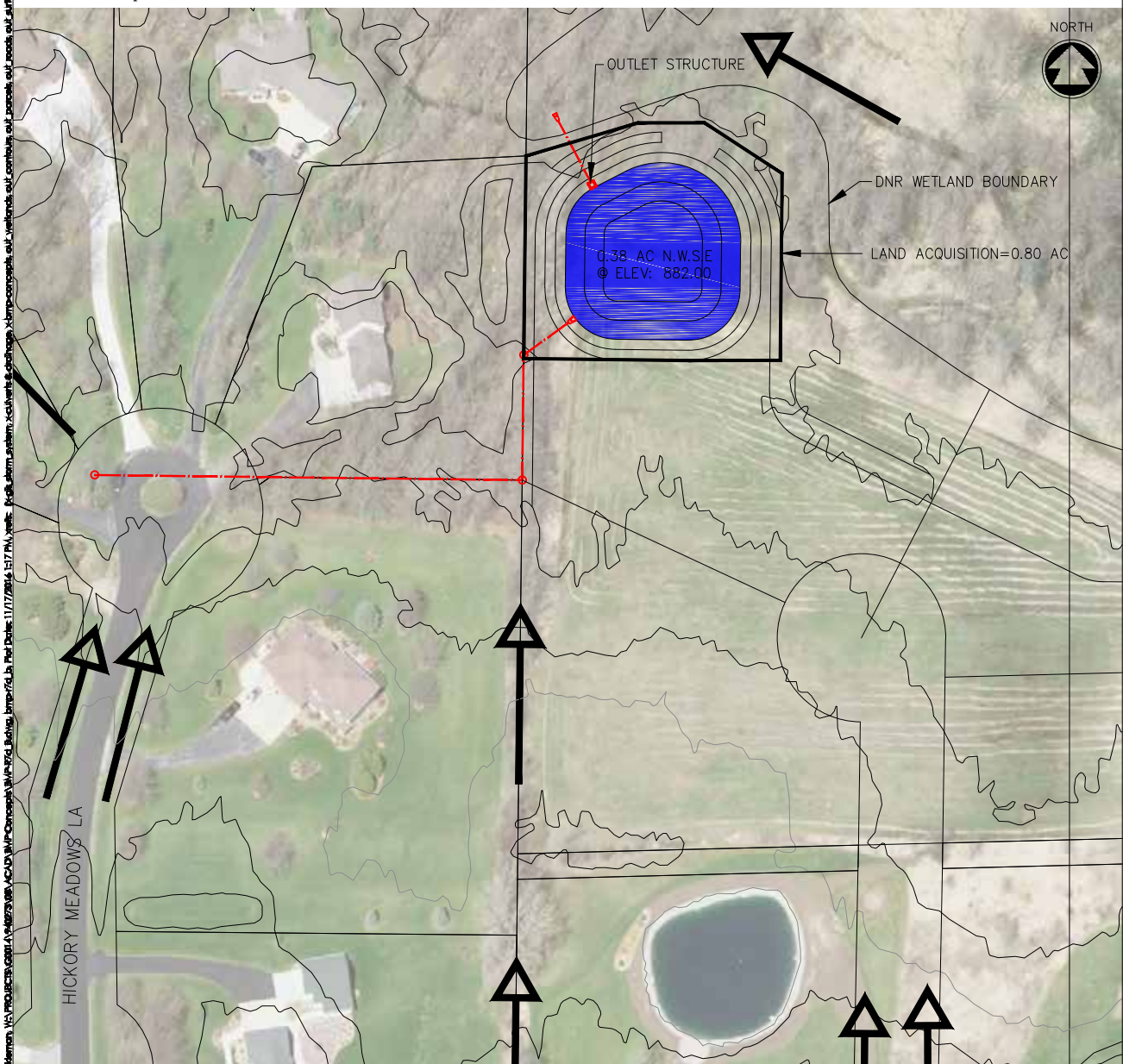
Approx. Land Required (ac):

0.80 acres

Estimated Cost:

\$198,600

Sketch of Proposed BMP Retrofit:



POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-R7j

McM PROJECT NO: G0014-9-14-00273

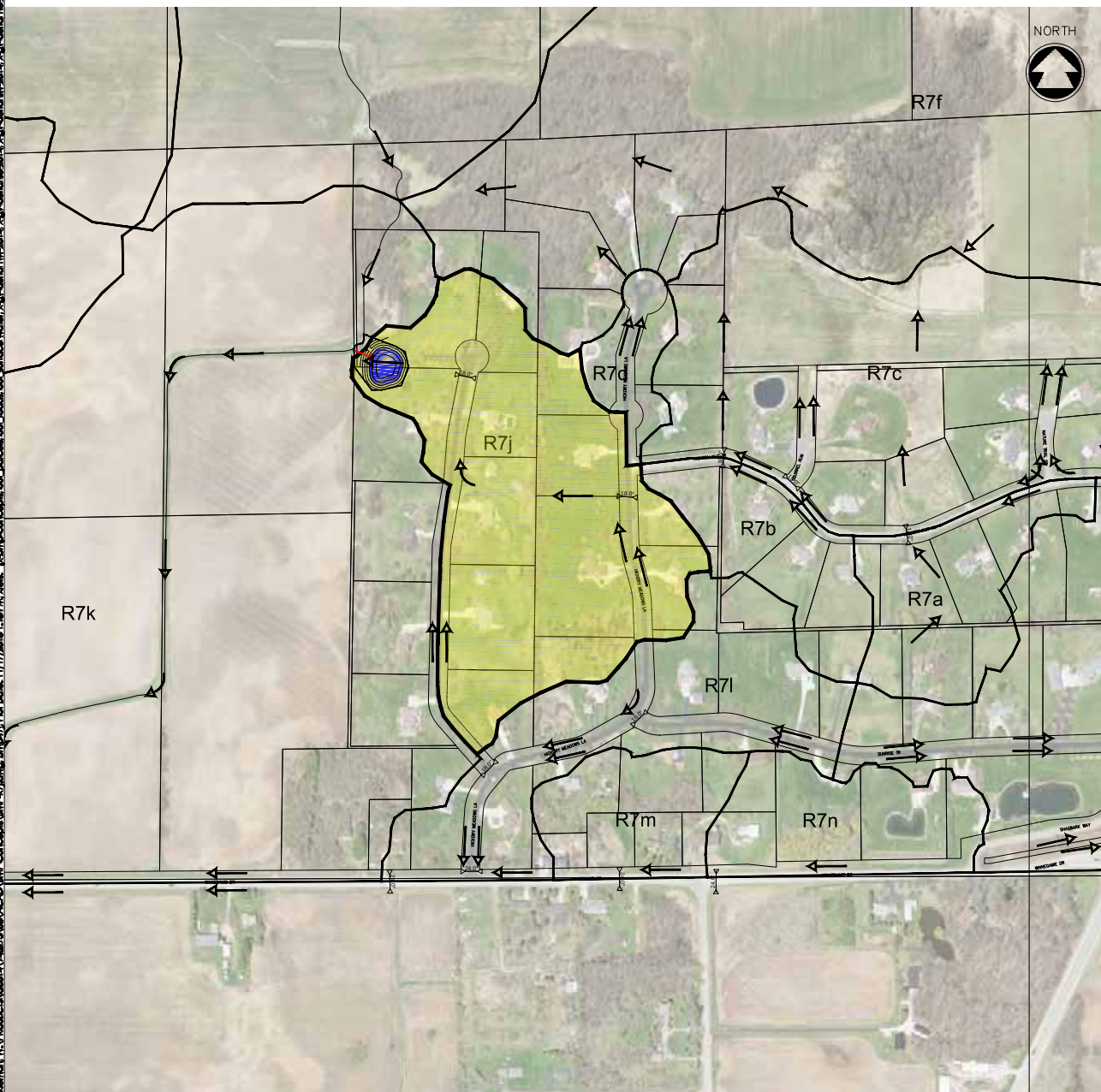
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: SUNSET POND	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: RAT RIVER	Tributary Drainage Area IDs: R7j	Total Drainage Area: 25.6 acres
Imperviousness (Future): 9.6 %	Runoff Curve Number (Future): 76	Water Quality Volume (Future): 0.4 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): 0 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to the navigable stream to the northwest

Infrastructure modifications or flow diversions required for retrofit:

Convert existing landscape pond to a wet detention pond. Flows from watershed currently drain into pond via a swale.

Site access for future BMP maintenance:

Good. Access from Sunset Dr.

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, floodplain, feasibility of converting landscape pond into wet detention pond

Approx. Size of BMP Retrofit:

0.30 acre permanent pool

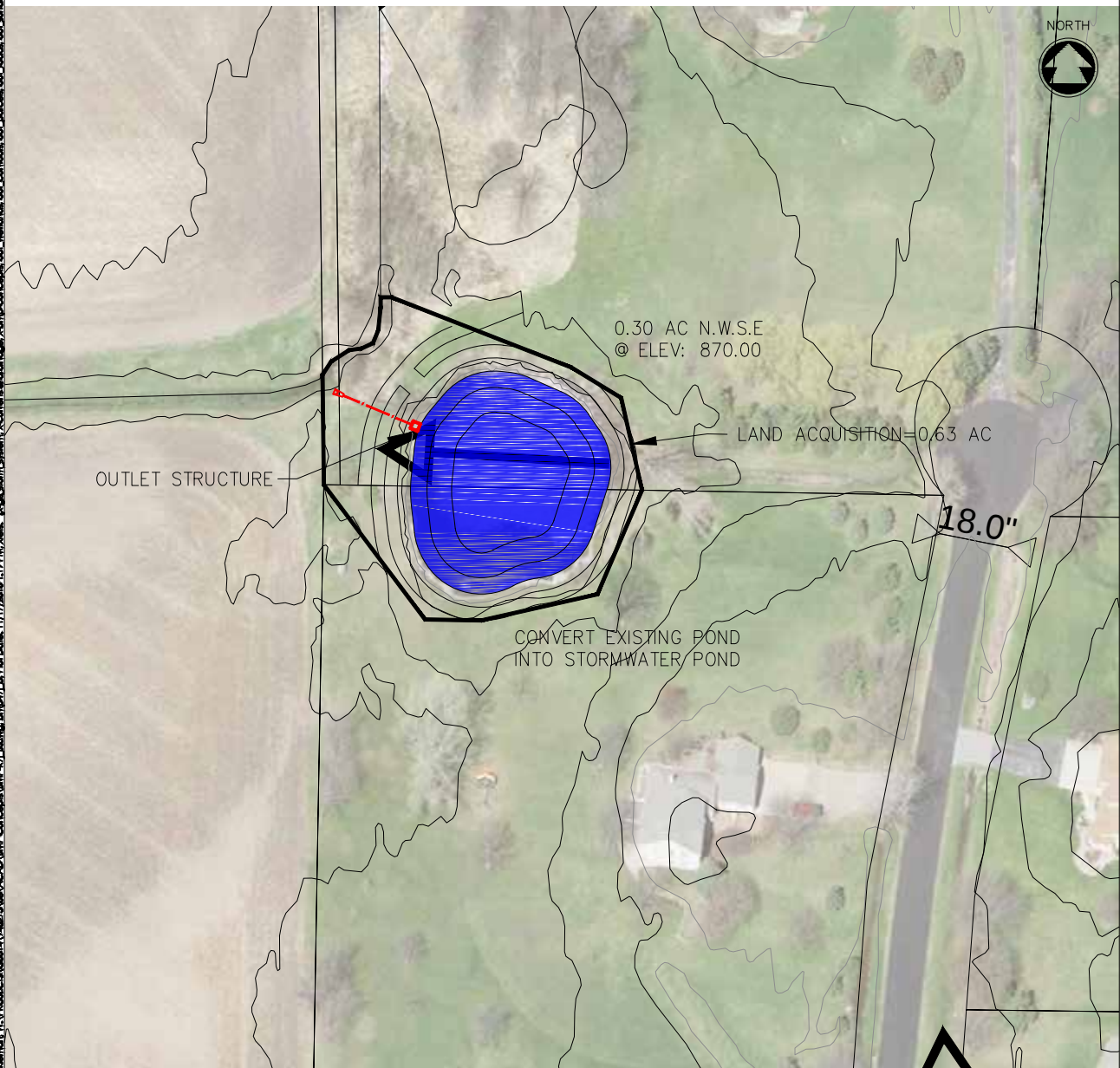
Approx. Land Required (ac):

0.63 acres

Estimated Cost:

\$99,300

Sketch of Proposed BMP Retrofit:



POTENTIAL STORMWATER BMP RETROFIT

BMP CATCHMENT ID: BMP-R7I

McM PROJECT NO: G0014-9-14-00273

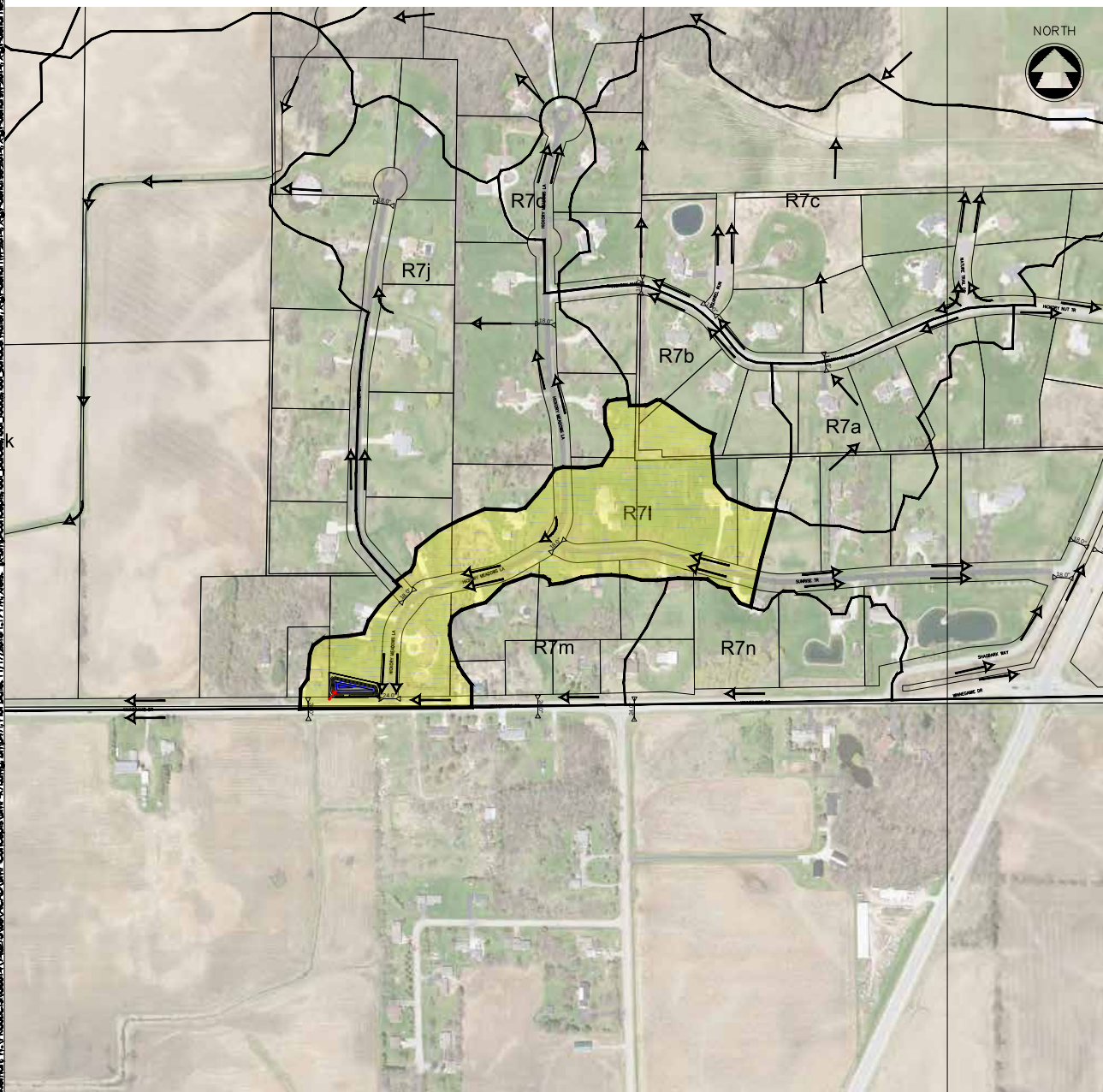
SITE INFORMATION:

Municipality: TOWN OF GREENVILLE	Date: OCTOBER, 2015
Proposed BMP Name: SUNRISE POND	Initials: PTK

DRAINAGE AREA:

Sub-watershed ID: RAT RIVER	Tributary Drainage Area IDs: R7I	Total Drainage Area: 15.8 acres
Imperviousness (Future): 9.8 %	Runoff Curve Number (Future): 76	Water Quality Volume (Future): 0.3 acre-feet

Drainage Area / Site Location Map:



PROPOSED BMP RETROFIT:

Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.):
Wet detention pond

Initial BMP Screening

Groundwater Depth (ft): >6.7 ft

Bedrock Depth (in): >80 in

USDA Soil Texture: Silt loam

Remediation:

☐ Yes ☒ No

Historical:

☐ Yes ☒ No

100-Year Floodplain:

☐ Yes ☒ No

Wetland: ☒ Potential ☐ Yes ☐ No

Public Well < 400 ft: ☐ Yes ☒ No

Private Well < 100 ft: ☐ Yes ☒ No

BMP Outfall (storm sewer, stream, wetland, groundwater, etc.):

Pond to outfall via storm sewer to the north ditch of Winnegamie Dr

Infrastructure modifications or flow diversions required for retrofit:

Divert flows from Hickory Meadows Ln and the 24" culvert under Hickory Meadows Ln into pond via rip-rap channels

Site access for future BMP maintenance:

Good. Access from Hickory Meadows Ln

Site constraints that require further investigation (e.g. utility conflicts, wetlands, groundwater, etc.):

Wetlands, groundwater, utility conflicts, proximity to septic

Approx. Size of BMP Retrofit:

0.10 acre permanent pool

Approx. Land Required (ac):

0.28 acres

Estimated Cost:

\$73,700

Sketch of Proposed BMP Retrofit:

