Site Photographs

Project Name	Site Location	Project No.
Carlisle Interconnect	5300 W. Franklin Dr., Franklin, WI	255682

Photo No.	Date
7	5/13/16

Description

Wetland sample point SP-7, facing north.

Photo No.	Date
8	5/13/16

Description

Upland sample point SP-8, facing south-southeast.

Site Photographs

Project Name	Site Location	Project No.
Carlisle Interconnect	5300 W. Franklin Dr., Franklin, WI	255682

Photo No.	Date
9	5/13/16

Description

Wetland sample point SP-9, facing north.

Photo No.	Date
10	5/13/16

Description

Upland sample point SP-10, facing northwest.

Site Photographs

Project Name	Site Location	Project No.
Carlisle Interconnect	5300 W. Franklin Dr., Franklin, WI	255682

Photo No.	Date
11	5/13/16

Description

Wetland sample point SP-11, facing northwest.

Photo No.	Date
12	5/13/16

Description

Wetland sample point SP-12, facing west.

Site Photographs

Project Name	Site Location	Project No.
Carlisle Interconnect	5300 W. Franklin Dr., Franklin, WI	255682

Photo No.	Date
12	5/13/16

Description

Representative photo of shallow roots on *Ostrya virginiana* in hardwood swamp.

Photo No.	Date
13	5/13/16

Description

Representative photo of adventitious/shallow roots on *Rhamnus cathartica* in hardwood swamp.

Site Photographs

Project Name	Site Location	Project No.
Carlisle Interconnect	5300 W. Franklin Dr., Franklin, WI	255682

Photo No.	Date
14	5/13/16

Description

Representative photo of adventitious/shallow roots on *Ostrya virginiana.*

Photo No.	Date
15	5/13/16

Description

View of western portion of Study Area, roadside.

Site Photographs

Project Name	Site Location	Project No.
Carlisle Interconnect	5300 W. Franklin Dr., Franklin, WI	255682

Photo No.	Date
16	5/13/16

Description

View of southern portion of Study Area, roadside.

APPENDIX E:
WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 11-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: **SP-1**

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Backslope | Local relief (concave, convex, none): convex

Slope: 3.0% 1.7 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Blount silt loam (BIA) | NWI classification: T3/E2K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉ No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Hydric Soil Present?	Yes ◉ No ○	
Wetland Hydrology Present?	Yes ◉ No ○	

Remarks:
Based on the presence of all three parameters, this point is located within a wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 15' x 150')	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. Ulmus americana	10	☑ 100.0%	FACW
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	0
	10	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' x 50')			
1. Rhamnus cathartica	50	☑ 86.2%	FAC
2. Crataegus crus-galli	5	☐ 8.6%	FAC
3. Prunus virginiana	3	☐ 5.2%	FACU
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	58	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Phragmites australis	60	☑ 56.6%	FACW
2. Rhamnus cathartica	20	☐ 18.9%	FAC
3. Phalaris arundinacea	15	☐ 14.2%	FACW
4. Rosa multiflora	5	☐ 4.7%	FACU
5. Solidago canadensis	3	☐ 2.8%	FACU
6. Sonchus arvensis	3	☐ 2.8%	FACU
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
	106	= Total Cover	
Woody Vine Stratu (Plot size: 15' x 150')			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	85	x 2 =	170
FAC species	75	x 3 =	225
FACU species	14	x 4 =	56
UPL species	0	x 5 =	0
Column Totals:	174 (A)		451 (B)

Prevalence Index = B/A = 2.592

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks: (Include photo numbers here or on a separate sheet.)

The criterion for hydrophytic vegetation is met. Plot size is based on the linear shape of the wetland. Shrub carr / fresh (wet) meadow wetland complex.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR	3/1	100						Sandy Clay Loam	
4-11	10YR	4/1	88	10YR	5/8	10	C	M	Sandy Clay	
				10YR	5/6	2	C	M		
11-20	10YR	5/2	80	10YR	5/6	20	C	M	Sandy Clay	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ◉ No ○

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ◉ No ○ Depth (inches): 3

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): 0

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 11-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: **SP-2**

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Shoulder slope | Local relief (concave, convex, none): convex

Slope: 6.0% 3.4 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Ashkum silty clay loam (AsA) | NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ (If no, explain in Remarks.)

Are Vegetation ☑, Soil ☑, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ○ No ◉

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○ No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Hydric Soil Present?	Yes ○ No ◉	
Wetland Hydrology Present?	Yes ○ No ◉	

Remarks:
Circumstances are not normal due to mowing of vegetation. Based on the absence of all three parameters, this point is located in an upland.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 15' x 150')			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' x 50')			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Poa compressa	40	☑ 40.8%	FACU
2. Poa pratensis	30	☑ 30.6%	FAC
3. Daucus carota	10	☐ 10.2%	UPL
4. Medicago sativa	5	☐ 5.1%	FACU
5. Plantago major	5	☐ 5.1%	FAC
6. Trifolium repens	5	☐ 5.1%	FACU
7. Sonchus arvensis	3	☐ 3.1%	FACU
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
	98	= Total Cover	
Woody Vine Stratu (Plot size: 15' x 150')			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	35	x 3 =	105
FACU species	53	x 4 =	212
UPL species	10	x 5 =	50
Column Totals:	98 (A)		367 (B)

Prevalence Index = B/A = 3.745

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation significantly disturbed due to recent mowing. Although mowed, vegetation is still identifiable. The criterion for hydrophytic vegetation is not met.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type [1]	Loc [2]	Texture	Remarks
0-12	10YR	4/3	60						Sandy Clay Loam	
	10YR	5/3	40							
12-20	10YR	5/4	96	10YR	4/2	2	D	M	Sandy Clay	
				10YR	5/6	2	C	M		

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ○ No ◉

Remarks:

Soils appears to be fill material from when an adjacent parkinglot was constructed. The criterion for hydric soil is not met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ○ No ◉ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches): _____

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is not met.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 11-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: **SP-3**

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Toeslope | Local relief (concave, convex, none): concave

Slope: 0.0% 0.0 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Ashkum silty clay loam (AsA) | NWI classification: T3/E2K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉ No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Hydric Soil Present?	Yes ◉ No ○	
Wetland Hydrology Present?	Yes ◉ No ○	

Remarks:
Based on the presence of all three parameters, this point is located within a wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. Fraxinus pennsylvanica	5	☑ 100.0%	FACW
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	5	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' r)			
1. Fraxinus pennsylvanica	5	☑ 45.5%	FACW
2. Acer negundo	3	☑ 27.3%	FAC
3. Salix bebbiana	3	☑ 27.3%	FACW
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	11	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Typha angustifolia	60	☑ 43.8%	OBL
2. Carex stricta	40	☑ 29.2%	OBL
3. Symphyotrichum puniceum	10	☐ 7.3%	OBL
4. Euthamia graminifolia	8	☐ 5.8%	FACW
5. Daucus carota	5	☐ 3.6%	UPL
6. Solidago gigantea	5	☐ 3.6%	FACW
7. Barbarea vulgaris	3	☐ 2.2%	FAC
8. Cirsium vulgare	3	☐ 2.2%	FACU
9. Sonchus arvensis	3	☐ 2.2%	FACU
10.	0	☐ 0.0%	
	137	= Total Cover	
Woody Vine Stratu (Plot size: 30' r)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	110	x 1 =	110
FACW species	26	x 2 =	52
FAC species	6	x 3 =	18
FACU species	6	x 4 =	24
UPL species	5	x 5 =	25
Column Totals:	153 (A)		229 (B)

Prevalence Index = B/A = 1.497

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks: (Include photo numbers here or on a separate sheet.)
The criterion for hydrophytic vegetation is met. Shallow marsh / sedge meadow plant community.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-3**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR	3/1	95	5YR	4/6	5	C	M	Sandy Clay Loam	
7-11	10YR	2/1	90	10YR	5/6	10	C	M	Sandy Clay	
11-23	10YR	4/1	70	10YR	5/6	30	C	M	Sandy Clay	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☑ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ◉ No ○

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ◉ No ○ Depth (inches): 14

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): 3

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met. Sample point ~ 3' lower in elevation than SP-2.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 11-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: SP-4

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Backslope | Local relief (concave, convex, none): convex

Slope: 3.0% 1.7 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Ashkum silty clay loam (AsA) | NWI classification: T3K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Hydric Soil Present?	Yes ◉	No ○	
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks:
Based on the absence of two of three parameters, this point is located in an upland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Rel.Strat. Cover	Indicator Status
1. Quercus alba	30	☑	66.7%	FACU
2. Ostrya virginiana	10	☑	22.2%	FACU
3. Fraxinus pennsylvanica	5	☐	11.1%	FACW
4.	0	☐	0.0%	
5.	0	☐	0.0%	
	45	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15' r)				
1. Prunus virginiana	25	☑	43.1%	FACU
2. Rhamnus cathartica	15	☑	25.9%	FAC
3. Ostrya virginiana	15	☑	25.9%	FACU
4. Lonicera morrowii	3	☐	5.2%	FACU
5.	0	☐	0.0%	
	58	= Total Cover		
Herb Stratum (Plot size: 5' r)				
1. Prunus virginiana	15	☑	32.6%	FACU
2. Taraxacum officinale	10	☑	21.7%	FACU
3. Carex blanda	3	☐	6.5%	FAC
4. Carex pensylvanica	3	☐	6.5%	UPL
5. Drymocallis arguta	3	☐	6.5%	FACU
6. Phalaris arundinacea	3	☐	6.5%	FACW
7. Ribes cynosbati	3	☐	6.5%	FAC
8. Rosa multiflora	3	☐	6.5%	FACU
9. Aster cordifolius	3	☐	6.5%	UPL
10.	0	☐	0.0%	
	46	= Total Cover		
Woody Vine Stratu (Plot size: 30' r)				
1.	0	☐	0.0%	
2.	0	☐	0.0%	
	0	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 14.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	8	x 2 =	16
FAC species	21	x 3 =	63
FACU species	114	x 4 =	456
UPL species	6	x 5 =	30
Column Totals:	149 (A)		565 (B)

Prevalence Index = B/A = 3.792

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks: (Include photo numbers here or on a separate sheet.)
The criterion for hydrophytic vegetation is not met.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-4**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type [1]	Loc [2]	Texture	Remarks
0-5	10YR	3/1	100						Sandy Loam	
5-24	10YR	4/2	70	10YR	4/1	20	D	M	Sandy Clay	
				10YR	5/6	10	C	M		

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ◉ No ○

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ○ No ◉ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches): _____

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is not met.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 11-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: **SP-5**

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Toeslope | Local relief (concave, convex, none): concave

Slope: 0.0% 0.0 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Ashkum silty clay loam (AsA) | NWI classification: T3K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ], Soil [ ], or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ], Soil [ ], or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●) No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Hydric Soil Present?	Yes (●) No ( )	
Wetland Hydrology Present?	Yes (●) No ( )	

Remarks:
Based on the presence of all three parameters, this point is located within a wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. Fraxinus pennsylvanica	25	☑ 55.6%	FACW
2. Quercus alba	10	☑ 22.2%	FACU
3. Carpinus caroliniana	5	☐ 11.1%	FAC
4. Carya ovata	5	☐ 11.1%	FACU
5.	0	☐ 0.0%	
	45	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' r)			
1. Rhamnus cathartica	60	☑ 72.3%	FAC
2. Ostrya virginiana	15	☐ 18.1%	FACU
3. Crataegus crus-galli	5	☐ 6.0%	FAC
4. Carya ovata	3	☐ 3.6%	FACU
5.	0	☐ 0.0%	
	83	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Carex bromoides	20	☑ 35.1%	FACW
2. Ribes cynosbati	10	☑ 17.5%	FAC
3. Rhamnus cathartica	10	☑ 17.5%	FAC
4. Fraxinus pennsylvanica	5	☐ 8.8%	FACW
5. Drymocallis arguta	3	☐ 5.3%	FACU
6. Geum canadense	3	☐ 5.3%	FAC
7. Lonicera morrowii	3	☐ 5.3%	FACU
8. Prunus virginiana	3	☐ 5.3%	FACU
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
	57	= Total Cover	
Woody Vine Stratu (Plot size: 30' r)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	50	x 2 =	100
FAC species	93	x 3 =	279
FACU species	42	x 4 =	168
UPL species	0	x 5 =	0
Column Totals:	185 (A)		547 (B)

Prevalence Index = B/A = 2.957

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: (Include photo numbers here or on a separate sheet.)
The criterion for hydrophytic vegetation is met. Mixed hardwood swamp / Shrub carr plant community.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-5**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type [1]	Loc [2]	Texture	Remarks
0-10	10YR	2/1	75	10YR	5/8	15	C	M	Sandy Clay Loam	
				10YR	5/2	10	D	M		
10-24	10YR	5/1	60	10YR	5/8	20	C	M	Sandy Clay	
	10YR	2/1	10	10YR	4/2	10	D	M		

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☑ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ◉ No ○

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☑ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☑ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☑ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ◉ No ○ Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): 0

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met. Sample point ~ 2' lower in elevation than SP-4. Saturation / possible innundation visible on 2014 leaf-off aerial imagery.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 13-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: **SP-6**

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Shoulder slope | Local relief (concave, convex, none): convex

Slope: 6.0% 3.4 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Blount silt loam (BIA) | NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○ No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Hydric Soil Present?	Yes ○ No ◉	
Wetland Hydrology Present?	Yes ○ No ◉	

Remarks:
Based on the absence all three parameters, this point is located in an upland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. Quercus rubra	10	☑ 66.7%	FACU
2. Carya ovata	5	☑ 33.3%	FACU
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	15	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' r)			
1. Cornus racemosa	40	☑ 80.0%	FAC
2. Rhamnus cathartica	10	☑ 20.0%	FAC
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	50	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Bromus inermis	60	☑ 60.0%	FACU
2. Poa pratensis	30	☑ 30.0%	FAC
3. Cornus racemosa	5	☐ 5.0%	FAC
4. Fragaria virginiana	5	☐ 5.0%	FACU
5.	0	☐ 0.0%	
6.	0	☐ 0.0%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
	100	= Total Cover	
Woody Vine Stratu (Plot size: 30' r)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	85	x 3 =	255
FACU species	80	x 4 =	320
UPL species	0	x 5 =	0
Column Totals:	165 (A)		575 (B)

Prevalence Index = B/A = 3.485

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks: (Include photo numbers here or on a separate sheet.)
The criterion for hydrophytic vegetation is not met.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-6**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR	4/3	95						Sandy Clay Loam	
	10YR	2/1	5							
8-14	10YR	5/3	65	10YR	5/6	20	C	M	Sandy Clay	
				10YR	5/2	15	D	M		

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ○ No ◉

Remarks:

The criterion for hydric soil is not met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ◉ No ○ Depth (inches): 22

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): 18

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is not met.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 13-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: SP-7

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Backslope | Local relief (concave, convex, none): concave

Slope: 3.0% 1.7 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Blount silt loam (BIA) | NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ], Soil [ ], or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ], Soil [ ], or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●) No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Hydric Soil Present?	Yes (●) No ( )	
Wetland Hydrology Present?	Yes (●) No ( )	

Remarks:
Based on the presence of all three parameters, this point is located within a wetland.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30' r)			
1. Carya ovata	25	☑ 41.7%	FACU
2. Fraxinus pennsylvanica	25	☑ 41.7%	FACW
3. Quercus rubra	10	☐ 16.7%	FACU
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	60	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' r)			
1. Rhamnus cathartica	40	☑ 61.5%	FAC
2. Ostrya virginiana	20	☑ 30.8%	FACU
3. Fraxinus pennsylvanica	5	☐ 7.7%	FACW
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	65	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Carex bromoides	25	☑ 44.6%	FACW
2. Ribes cynosbati	10	☑ 17.9%	FAC
3. Rhamnus cathartica	10	☑ 17.9%	FAC
4. Prunus virginiana	5	☐ 8.9%	FACU
5. Rosa multiflora	3	☐ 5.4%	FACU
6. Trillium recurvatum	3	☐ 5.4%	FACU
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
	56	= Total Cover	
Woody Vine Stratu (Plot size: 30' r)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	55	x 2 =	110
FAC species	60	x 3 =	180
FACU species	66	x 4 =	264
UPL species	0	x 5 =	0
Column Totals:	181 (A)		554 (B)

Prevalence Index = B/A = 3.061

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: (Include photo numbers here or on a separate sheet.)
The criterion for hydrophytic vegetation is met. Mixed hardwood swamp / Shrub carr plant community.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-7**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR	2/1	100						Sandy Clay Loam	
3-6	10YR	2/1	90	10YR	5/8	10	C	M	Sandy Clay Loam	
6-12	10YR	3/1	85	10YR	5/8	15	C	M	Sandy Clay	
12-20	10YR	4/2	60	10YR	4/1	25	D	M	Sandy Clay	
				10YR	5/8	15	C	M		

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☑ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ◉ No ○

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☑ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ◉ No ○ Depth (inches): 5

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): 0

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met. Sample point ~ 2' lower in elevation than SP-6. Saturation / possible innundation visible on 2014 leaf-off aerial imagery.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 13-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: **SP-8**

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Backslope | Local relief (concave, convex, none): Convex

Slope: 3.0% 1.7 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Morley silt loam (MzdB) | NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○ No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Hydric Soil Present?	Yes ○ No ◉	
Wetland Hydrology Present?	Yes ○ No ◉	

Remarks:
Based on the absence of all three parameters, this point is located in an upland.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30' r)			
1. Carya ovata	15	☑ 100.0%	FACU
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	15	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' r)			
1. Ostrya virginiana	60	☑ 60.0%	FACU
2. Rhamnus cathartica	15	☐ 15.0%	FAC
3. Cornus racemosa	10	☐ 10.0%	FAC
4. Zanthoxylum americanum	10	☐ 10.0%	FACU
5. Prunus virginiana	5	☐ 5.0%	FACU
	100	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Rhamnus cathartica	10	☑ 32.3%	FAC
2. Prunus virginiana	10	☑ 32.3%	FACU
3. Trillium recurvatum	5	☐ 16.1%	FACU
4. Taraxacum officinale	3	☐ 9.7%	FACU
5. Zanthoxylum americanum	3	☐ 9.7%	FACU
6.	0	☐ 0.0%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
	31	= Total Cover	
Woody Vine Stratu (Plot size: 30' r)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	35	x 3 =	105
FACU species	111	x 4 =	444
UPL species	0	x 5 =	0
Column Totals:	146 (A)		549 (B)

Prevalence Index = B/A = 3.760

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks: (Include photo numbers here or on a separate sheet.)
The criterion for hydrophytic vegetation is not met.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-8**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR	2/2	100						Silty Clay Loam	
5-8	10YR	5/2	90	10YR	5/6	10	C	M	Silty Clay	
8-24	10YR	5/3	80	10YR	5/6	20	C	M	Silty Clay	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ○ No ◉

Remarks:

The criterion for hydric soil is not met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ○ No ◉ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches): _____

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is not met.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 13-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: SP-9

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Backslope | Local relief (concave, convex, none): concave

Slope: 3.0% 1.7 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Blount silt loam (BIA) | NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉ No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Hydric Soil Present?	Yes ◉ No ○	
Wetland Hydrology Present?	Yes ◉ No ○	

Remarks:
Based on the presence of all three parameters, this point is located within a wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. Quercus rubra	40	☑ 66.7%	FACU
2. Quercus bicolor	20	☑ 33.3%	FACW
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	60	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' r)			
1. Carpinus caroliniana	30	☑ 46.2%	FAC
2. Rhamnus cathartica	30	☑ 46.2%	FAC
3. Ostrya virginiana	5	☐ 7.7%	FACU
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	65	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Ribes cynosbati	20	☑ 32.8%	FAC
2. Carpinus caroliniana	10	☑ 16.4%	FAC
3. Prunus virginiana	10	☑ 16.4%	FACU
4. Rhamnus cathartica	10	☑ 16.4%	FAC
5. Cornus racemosa	5	☐ 8.2%	FAC
6. Carex blanda	3	☐ 4.9%	FAC
7. Trillium recurvatum	3	☐ 4.9%	FACU
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
	61	= Total Cover	
Woody Vine Stratu (Plot size: 30' r)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	20	x 2 =	40
FAC species	108	x 3 =	324
FACU species	58	x 4 =	232
UPL species	0	x 5 =	0
Column Totals:	186 (A)		596 (B)

Prevalence Index = B/A = 3.204

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks: (Include photo numbers here or on a separate sheet.)

The criterion for hydrophytic vegetation is met. Mixed hardwood swamp / Shrub carr plant community. Rhamnus cathartica and Ostrya virginiana exhibiting adaptations to saturated conditions in the form of adventitous roots and shallow root system. Recalculating as FAC species not needed to meet the Dominance Test.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-9**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR	2/1	100						Silty Clay Loam	
6-24	10YR	5/2	60	10YR	5/6	20	C	M	Silty Clay	
	10YR	5/3	20							

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ◉ No ○

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☑ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ◉ No ○ Depth (inches): 10

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): 6

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met. Sample point ~ 2' lower in elevation than SP-8. Saturation / possible innundation visible on 2014 leaf-off aerial imagery.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 13-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: **SP-10**

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Shoulder slope | Local relief (concave, convex, none): convex

Slope: 5.0% 2.9 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Blount silt loam (BIA) | NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○ No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Hydric Soil Present?	Yes ○ No ◉	
Wetland Hydrology Present?	Yes ○ No ◉	

Remarks:
Based on the absence of all three parameters, this point is located in an upland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. Quercus alba	40	☑ 53.3%	FACU
2. Quercus rubra	20	☑ 26.7%	FACU
3. Acer rubrum	10	☐ 13.3%	FAC
4. Acer saccharinum	5	☐ 6.7%	FACW
5.	0	☐ 0.0%	
	75	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' r)			
1. Zanthoxylum americanum	25	☑ 44.6%	FACU
2. Lonicera morrowii	10	☑ 17.9%	FACU
3. Carpinus caroliniana	8	☐ 14.3%	FAC
4. Prunus virginiana	8	☐ 14.3%	FACU
5. Cornus racemosa	5	☐ 8.9%	FAC
	56	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Carex pensylvanica	50	☑ 64.1%	UPL
2. Cornus racemosa	15	☐ 19.2%	FAC
3. Ostrya virginiana	5	☐ 6.4%	FACU
4. Ribes cynosbati	5	☐ 6.4%	FAC
5. Drymocallis arguta	3	☐ 3.8%	FACU
6.	0	☐ 0.0%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
	78	= Total Cover	
Woody Vine Stratu (Plot size: 30' r)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	43	x 3 =	129
FACU species	111	x 4 =	444
UPL species	50	x 5 =	250
Column Totals:	209 (A)		833 (B)

Prevalence Index = B/A = 3.986

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks: (Include photo numbers here or on a separate sheet.)
The criterion for hydrophytic vegetation is not met.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-10**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR	3/2	100						Silty Clay Loam	
5-16	10YR	6/4	98	10YR	5/8	2	C	M	Silty Clay	
16-24	10YR	6/4	90	10YR	5/8	10	C	M	Silty Clay	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ○ No ◉

Remarks:

The criterion for hydric soil is not met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ◉ No ○ Depth (inches): 20

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): 16

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is not met.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 13-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: **SP-11**

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Toeslope | Local relief (concave, convex, none): Concave

Slope: 0.0% 0.0 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Blount silt loam (BIA) | NWI classification: T3K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☑, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉ No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Hydric Soil Present?	Yes ◉ No ○	
Wetland Hydrology Present?	Yes ◉ No ○	

Remarks:
Based on the presence of all three parameters, this point is located within a wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. Carya ovata	40	☑ 57.1%	FAC
2. Tilia americana	30	☑ 42.9%	FAC
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	70	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' r)			
1. Carpinus caroliniana	40	☑ 80.0%	FAC
2. Ostrya virginiana	10	☑ 20.0%	FAC
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	50	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Carpinus caroliniana	30	☑ 56.6%	FAC
2. Carex bromoides	10	☐ 18.9%	FACW
3. Cornus racemosa	5	☐ 9.4%	FAC
4. Trillium recurvatum	5	☐ 9.4%	FACU
5. Ribes cynosbati	3	☐ 5.7%	FAC
6.	0	☐ 0.0%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
	53	= Total Cover	
Woody Vine Stratu (Plot size: 30' r)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	158	x 3 =	474
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	173 (A)		514 (B)

Prevalence Index = B/A = 2.971

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☑ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation naturally problematic due to abundance of what would normally be FACU species in wetland. Greater than 50% of Carya ovata, Tilia americana, and Ostrya virginiana plants within the plot were exhibiting morphological adaptations including buttressing, adventitous roots, and shallow root systems. These plant were recalculated as FAC speceis. The criterion for hydrophytic vegetation is met.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-11**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR	3/2	100						Silt Loam	
5-13	10YR	3/1	90	10YR	5/6	10	C	M	Silty Clay	
13-20	10YR	5/2	85	10YR	5/6	15	C	M	Silty Clay	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☑ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ◉ No ○

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☑ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ◉ No ○ Depth (inches): 2

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): 0

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met. Sample point ~ 2' lower in elevation than SP-10. Saturation / possible innundation visible on 2014 leaf-off aerial imagery.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Carlisle Interconnect | City/County: Franklin / Milwaukee | Sampling Date: 13-May-16

Applicant/Owner: Carlisle Interconnect / JP Cullen | State: WI | Sampling Point: **SP-12**

Investigator(s): Ron Londré, Amanda Larsen | Section, Township, Range: S 26 T 5N R 21E

Landform (hillslope, terrace, etc.): Toeslope | Local relief (concave, convex, none): concave

Slope: 0.0% 0.0 ° | Lat.: | Long.: | Datum:

Soil Map Unit Name: Ashkum silty clay loam (AsA) | NWI classification: T3/E2K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ◉ No ○

Are Vegetation ☑, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉ No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Hydric Soil Present?	Yes ◉ No ○	
Wetland Hydrology Present?	Yes ◉ No ○	

Remarks:
Based on the presence of all three parameters, this point is located within a wetland.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30' r)			
1. Quercus rubra	25	☑ 36.8%	FACU
2. Quercus bicolor	20	☑ 29.4%	FACW
3. Acer saccharinum	15	☑ 22.1%	FACW
4. Acer rubrum	5	☐ 7.4%	FAC
5. Tilia americana	3	☐ 4.4%	FACU
	68	= Total Cover	
Sapling/Shrub Stratum (Plot size: 155)			
1. Carpinus caroliniana	5	☑ 50.0%	FAC
2. Ostrya virginiana	5	☑ 50.0%	FAC
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	10	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. Carex pensylvanica	50	☑ 61.7%	UPL
2. Carex bromoides	15	☐ 18.5%	FACW
3. Carex blanda	10	☐ 12.3%	FAC
4. Cornus racemosa	3	☐ 3.7%	FAC
5. Sagittaria latifolia	3	☐ 3.7%	OBL
6.	0	☐ 0.0%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
	81	= Total Cover	
Woody Vine Stratu (Plot size: 30' r)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	3	x 1 =	3
FACW species	50	x 2 =	100
FAC species	28	x 3 =	84
FACU species	28	x 4 =	112
UPL species	50	x 5 =	250
Column Totals:	159 (A)		549 (B)

Prevalence Index = B/A = 3.453

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☑ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation naturally problematic due to abundance of what would normally be FACU species in wetland. Greater than 50% of Ostrya virginiana plants within the plot were exhibiting morphological adaptations including adventitous roots and shallow root systems. These plant were recalculated as FAC speceis. The criterion for hydrophytic vegetation is met.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-12**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR	3/2	100						Silt Loam	
5-14	10YR	4/2	60	10YR	5/8	20	C	M	Silty Clay	
				10YR	4/1	20	D	M		
14-22	10YR	5/2	85	10YR	6/8	15	C	M	Silty Clay	

[1] Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ◉ No ○

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☑ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ◉ No ○ Depth (inches): 18

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): 10

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met. Sample point ~ 6-8" higher in elevation than shallow marsh ~ 30 west of sample point.

APPENDIX F:
PROFESSIONAL OPINION ON WETLAND SUSCEPTIBILITY

Table 5: Opinion of Susceptibility for NR 151 Setback Purposes

Note: Final authority on NR 151 protective areas rests with WDNR, but the following is TRC's opinion of each wetland's NR 151 protective area category.

Wetland Area	Least Susceptible	Moderately Susceptible	Highly Susceptible
Shallow Marsh	**X**		
Shrub-carr		**X**	
Hardwood Swamp		**X**	

Definitions of Susceptibility Per WDNR Administrative Code:

Least Susceptible: Degraded wetlands dominated by invasive species (≥ 90%) such as reed canary grass. Protective area = 10% of avg wetland width, but no less than 10' or more than 30'.

Moderately Susceptible: Fens, sedge meadows, bogs, low prairies, conifer swamps, shrub swamps, other forested wetlands, fresh wet meadows, shallow marshes, deep marshes and seasonally flooded basins. Protective area = 50'.

Highly Susceptible: Outstanding/exceptional resource waters, wetlands in areas of special natural resource interest as specificed in s. NR 103.04. Protective area = 75'.

APPENDIX C

Table 15-3.0503
Table 15-30504
NRPP Checklist

Table 15-3.0505
WORKSHEET FOR THE CALCULATION OF SITE INTENSITY AND CAPACITY FOR NONRESIDENTIAL DEVELOPMENT

STEP 1:	**CALCULATE MINIMUM REQUIRED LANDSCAPE SURFACE:** Take ***Base Site Area*** (from Step 5 in Table 15-3.0502): **12.95 acres** Multiple by Minimum ***Landscape Surface Ratio (LSR)*** (see specific zoning district LSR standard): X 0.45 Equals **MINIMUM REQUIRED ON-SITE LANDSCAPE SURFACE** =	**5.83 acres**
STEP 2:	**CALCULATE NET BUILDABLE SITE AREA:** Take ***Base Site Area*** (from Step 5 in Table 15-3.0502): **12.95 acres** Subtract ***Total Resource Protection Land*** from Table 15-3.0503) or ***Minimum Required Landscape Surface*** (from Step 1 above), whichever is greater: **- 6.43 acres** Equals **NET BUILDABLE SITE AREA =**	**6.52 acres**
STEP 3:	**CALCULATE MAXIMUM NET FLOOR AREA YIELD OF SITE:** Take ***Net Buildable Site Area*** (from Step 2 above): **6.52 acres** Multiple by Maximum ***Net Floor Area Ratio (NFAR)*** (see specific nonresidential zoning district NFAR standard): X 0.85 Equals **MAXIMUM NET FLOOR AREA YIELD OF SITE** =	**5.54 acres**
STEP 4:	**CALCULATE MAXIMUM GROSS FLOOR AREA YIELD OF SITE:** Take ***Base Site Area*** (from Step 5 of Table 15-3.0502): **12.95 acres** Multiple by Maximum ***Gross Floor Area Ratio (GFAR)*** (see specific nonresidential zoning district GFAR standard): X 0.55 Equals **MAXIMUM GROSS FLOOR AREA YIELD OF SITE** =	**7.12 acres**
STEP 5:	**DETERMINE MAXIMUM PERMITTED FLOOR AREA OF SITE:** Take the ***lowest*** of Maximum Net Floor Area Yield of Site (from Step 3 above) or Maximum Gross Floor Area Yield of Site (from Step 4 above): (Multiple results by 43,560 for maximum floor area in square feet):	**5.54 acres (241,322 square feet)**

Table 15-3.0503 Worksheet for the Calculation of Natural Resource Protection Land

Natural Resource Feature	Zoning District Type: Non-Residential (b) Protection Standard (%)	Area of Resource in Study Area (acres)	Protection Requirement (acres)	Area of Proposed Disturbance in Study Area (acres)
Steep Slopes:				
10 - 19%	40%	0.00	0.00	0.00
20 - 30%	70%	0.00	0.00	0.00
> 30%	80%	0.00	0.00	0.00
Woodlands & Forests:				
Mature	70%	5.30	3.71	0.34
Young	50%	0.00	0.00	0.00
Lakes & Ponds	100%	0.09	0.09	0.00
Streams	100%	0.00	0.00	0.00
Shore Buffer	100%	0.56	0.56	0.00
Floodplains/Floodlands	100%	0.00	0.00	0.00
Wetland Buffers (30')	100%	0.63	0.63	0.12
Wetland Setback (50')*	100%	0.75	0.75	0.13
Wetlands & Shoreland Wetlands	100%	6.44	6.44	0.23

* The 50' Wetland Setback also includes the land within the 30' Wetland Buffer.

The total unadjusted natural resource protection land is 13.77 acres; however, the mature woodland, wetland, wetland buffer, wetland setback, pond, and shore buffer overlap covers 7.34 acres. Due to overlapping natural resources, the adjusted natural resource protection land is 6.43 acres.

APPENDIX D

Site Photographs

Site Photographs

Project Name	Site Location	Project No.
Carlisle Interconnect	Franklin, Wisconsin	255682

Photo No.	Date
1	9/12/16

Description

Hardwood swamp wetland and mature woodland area proposed to be impacted.

Looking southwest

Photo No.	Date
2	9/12/16

Description

Hardwood swamp wetland and mature woodland area proposed to be impacted.

Looking north

Site Photographs

Project Name	Site Location	Project No.
Carlisle Interconnect	Franklin, Wisconsin	255682

Photo No.	Date
3	9/12/16

Description

Hardwood swamp wetland and mature woodland area proposed to be impacted.

Looking south

Photo No.	Date
4	9/12/16

Description

Hardwood swamp wetland and wetland, mature woodland, and wetland buffer/setback proposed to be impacted.

Looking north

Site Photographs

Project Name	Site Location	Project No.
Carlisle Interconnect	Franklin, Wisconsin	255682

Photo No.	Date
5	9/12/16

Description

Hardwood swamp wetland , mature woodland, and wetland buffer/setback proposed to be impacted.

Looking east

Photo No.	Date
6	5/11/16

Description

Hardwood swamp wetland, mature woodland, and wetland buffer/setback proposed to be impacted.

Looking west from within mature woodland.

Site Photographs

Project Name	Site Location	Project No.
Carlisle Interconnect	Franklin, Wisconsin	255682

Photo No.	Date
5	5/11/16

Description

North end of northwest parking lot with where the invasive grass *Phragmities* occurs. Herbicide treatment and native seeding will be conducted here for mitigation.

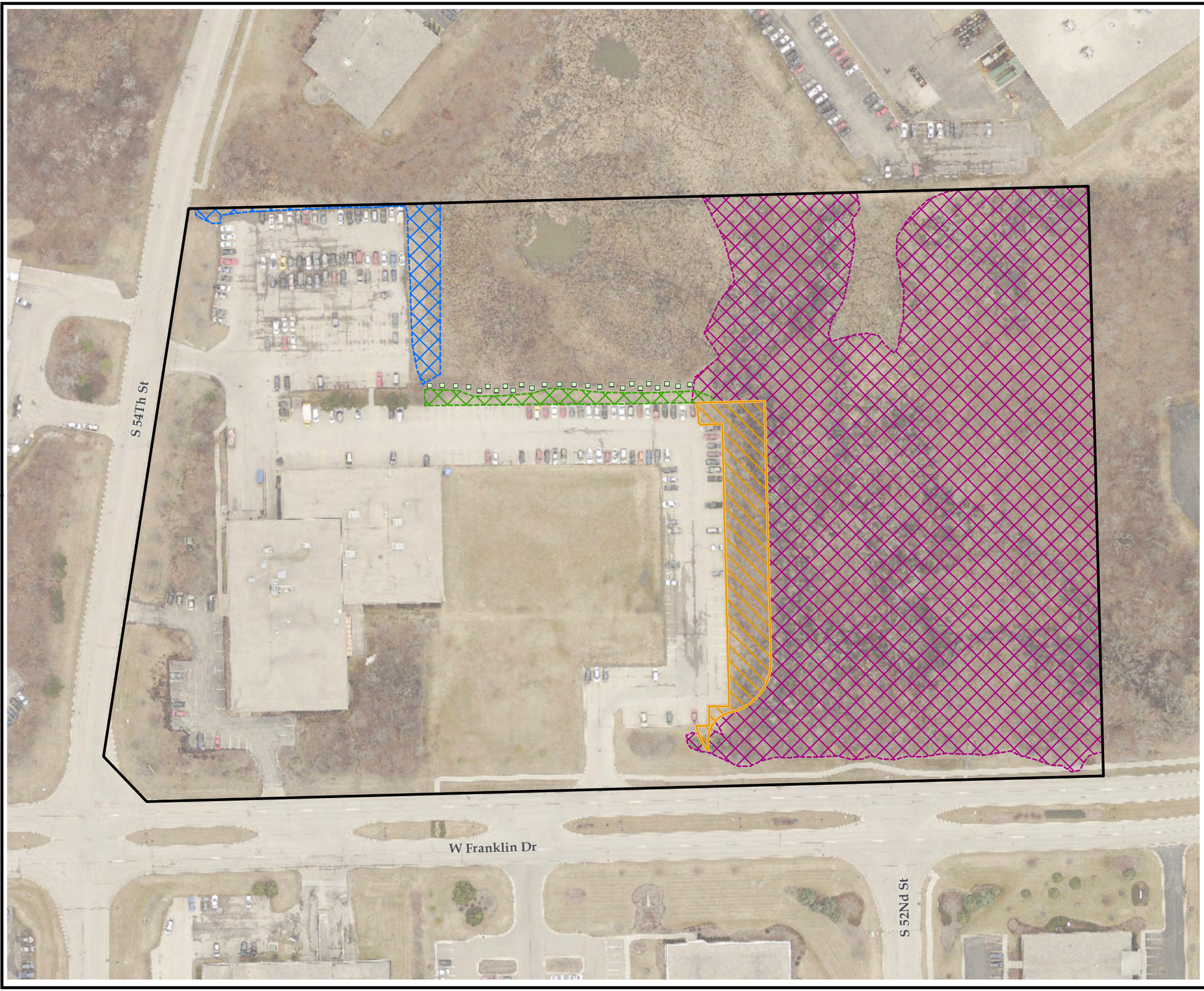
Photo No.	Date
6	5/11/16

Description

North side of parking where wetland buffer can be enhanced and general area where native tree saplings can be plated for mitigation.

APPENDIX E

Figure 3 – Mitigation Map



LEGEND

- TREE PLANTING AREA
- BUFFER ENHANCEMENT
- INVASIVE SHRUB MANAGEMENT
- *PHRAGMITES* MANAGEMENT
- AREA OF PROPOSED DISTURBANCE
- STUDY AREA

NOTES

1. BASE MAP IMAGERY FROM MILWAUKEE COUNTY LAND INFORMATION OFFICE, 2015.

N

0 100 200 Feet

1 " = 100 '
1:1,200

NTS

PROJECT:
CARLISLE INTERCONNECT TECHNOLOGIES, INC.
5300 WEST FRANKLIN DRIVE
FRANKLIN, WISCONSIN

TITLE:
MITIGATION AND ENHANCEMENT MAP

DRAWN BY:	SUEMNICHT R	PROJ NO.:	255682
CHECKED BY:		**FIGURE 3**	
APPROVED BY:			
DATE:	SEPTEMBER 2016		

TRC
150 North Patrick Blvd., Suite 180
Brookfield, WI 53045
Phone: 262.879.1212
www.trcsolutions.com

FILE NO.: 255682-015.mxd

Plot Date: 9/23/2016, 12:17:28 PM by RSUEMNICHT - - LAYOUT: ANSI B (11"x17")
Path: E:\WetlandsGeneral\TerraTec\Engineering\Franklin\WI\2016_255682\255682-015.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
TRC - GIS

Table 15-3.0503 Worksheet for the Calculation of Natural Resource Protection Land

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Shore Buffer	100%	0.56	0.56	0.00
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Wetland Buffers (30')	100%	0.63	0.63	0.12
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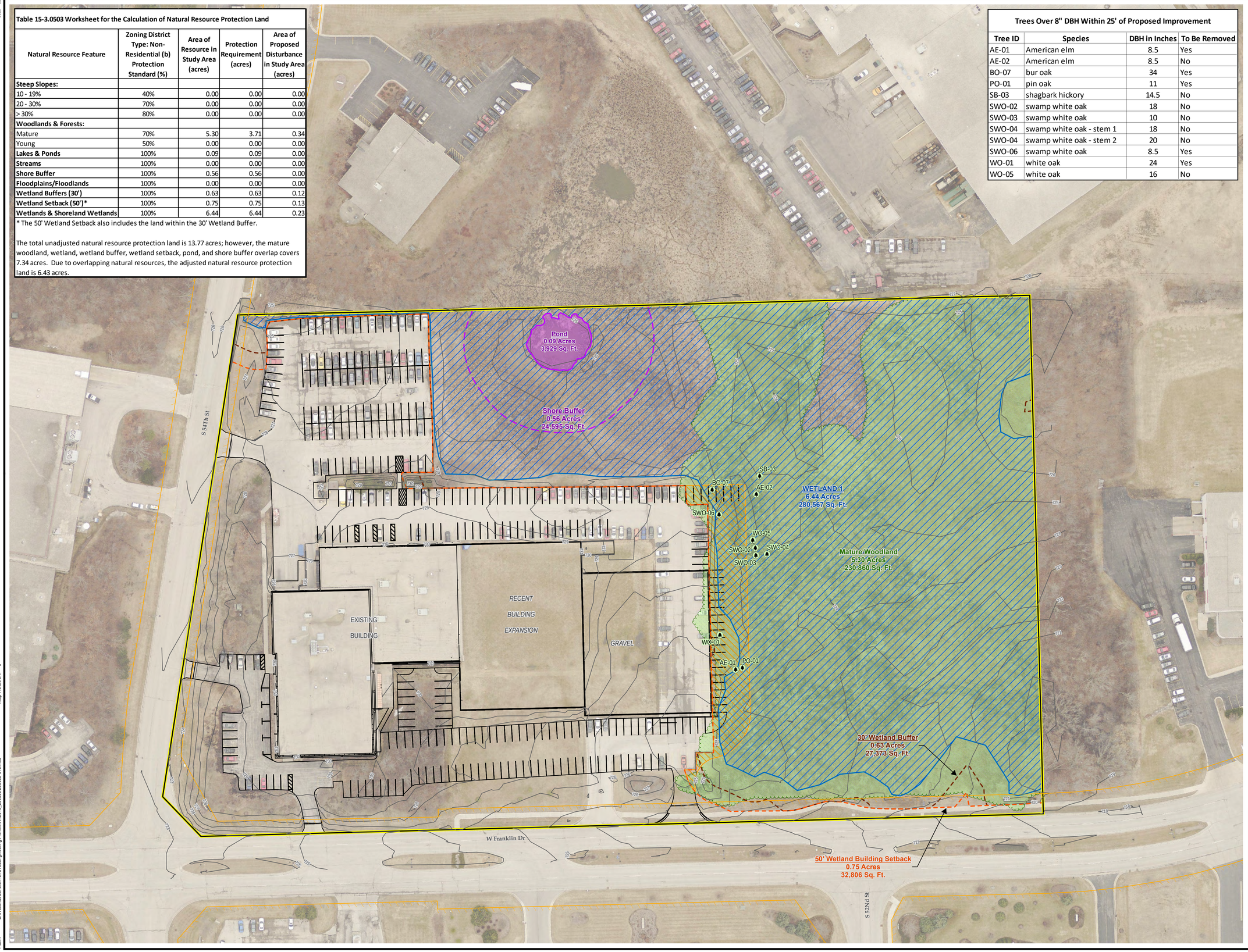
Wetlands & Shoreland Wetlands	100%	6.44	6.44	0.23

* The 50' Wetland Setback also includes the land within the 30' Wetland Buffer.

The total unadjusted natural resource protection land is 13.77 acres; however, the mature woodland, wetland, wetland buffer, wetland setback, pond, and shore buffer overlap covers 7.34 acres. Due to overlapping natural resources, the adjusted natural resource protection land is 6.43 acres.

Trees Over 8" DBH Within 25' of Proposed Improvement

Tree ID	Species	DBH in Inches	To Be Removed
AE-01	American elm	8.5	Yes
AE-02	American elm	8.5	No
BO-07	bur oak	34	Yes
PO-01	pin oak	11	Yes
SB-03	shagbark hickory	14.5	No
SWO-02	swamp white oak	18	No
SWO-03	swamp white oak	10	No
SWO-04	swamp white oak - stem 1	18	No
SWO-04	swamp white oak - stem 2	20	No
SWO-06	swamp white oak	8.5	Yes
WO-01	white oak	24	Yes
WO-05	white oak	16	No



LEGEND

- TREES OVER 8" DBH WITHIN 25' OF PROPOSED IMPROVEMENT
- SITE LAYOUT
- TOPOGRAPHIC CONTOURS (1' INTERVAL)
- RIGHT OF WAYS
- MATURE WOODLAND
- TRC DELINEATED WETLAND
- OPEN WATER (POND)
- 30' WETLAND BUFFER
- 50' WETLAND BUILDING SETBACK
- 75' SHORE BUFFER
- AREA OF PROPOSED DISTURBANCE
- STUDY AREA

NOTES

1. BASE MAP IMAGERY FROM MILWAUKEE COUNTY LAND INFORMATION OFFICE, 2015.
2. PROPERTY BOUNDARY, CONTOURS PROPOSED DEVELOPMENT AREAS DIGITIZED FROM SITE PLAN PROVIDED BY TerraTec ENGINEERING, LLC (MAY 2016).
3. RIGHT OF WAYS ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE STATEWIDE PARCEL LAYER, LOCATIONS ARE APPROXIMATE.
4. WETLAND DELINEATED BY RON LONDRE OF TRC IN MAY 2016.

N

0 50 100 Feet

1 " = 50 '
1:600

PROJECT:
CARLISLE INTERCONNECT TECHNOLOGIES, INC.
5300 WEST FRANKLIN DRIVE
FRANKLIN, WISCONSIN

TITLE:
NATURAL RESOURCE PROTECTION PLAN
CARLISLE IT FACILITY EXPANSION

DRAWN BY:	R SUEMNICHT	PROJ. NO.:	255682
CHECKED BY:	R LONDRE		
APPROVED BY:	R LONDRE		**FIGURE 2**
DATE:	SEPTEMBER 2016		

TRC
150 North Patrick Blvd., Suite 180
Brookfield, WI 53045
Phone: 262.879.1212
www.trcsolutions.com

FILE NO.: 255682-013.mxd

Plot Date: 9/23/2016, 12:25:51 PM by RSUEMNICHT -- LAYOUT: ANSI D (22"x34")
Path: E:\Wetlands\General\TerraTec\Engineering\Franklin\W1\2016_255682\255682-013.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Grid US)
Map Rotation: 0

List and Status of State and Federal Agency Permits

Permit	Status
State of WI Ch. 30 Wetland Fill General Permit	Application submitted to WDNR on September 26, 2016
Clean Water Act Section 404 Wetland Fill General Permit	Application submitted to U.S. Army Corps of Engineers on September 26, 2016
WPDES Construction Site Storm Water Runoff Permit	To be submitted 2nd or 3rd week of October

CITY OF FRANKLIN

REPORT TO THE PLAN COMMISSION

Meeting of November 3, 2016

Preliminary Plat

RECOMMENDATION: City Development Staff recommends approval of the Preliminary Plat Applications for the development of 12 single-family residential lots, subject to the conditions as noted in the attached draft resolution.

Project Name:	Evergreen Park Estates Rezoning and Preliminary Plat
Project Address:	7501 South 49th Street
Applicant:	Rick Przybyla, Creative Homes, Inc.
Owners (property):	Franklin Oasis, LLC
Current Zoning:	R-6 Suburban Single-Family Residence District and C-1 Conservancy District
Proposed Zoning:	R-6 Suburban Single-Family Residence District
Use of Surrounding Properties:	Single-family residential to the north and south, Pleasant View Elementary School and Pleasant View Neighborhood Park to the east and single-family and multi-family residential to the west
Applicant Action Requested:	Recommendation of approval of the Rezoning and Preliminary Plat

Introduction:

Please note:

- Staff recommendations are *underlined, in italics* and are included in the draft ordinance.
- Staff suggestions are only underlined and are not included in the draft resolution.

On June 20, 2016, the applicant submitted an application for a Rezoning and Preliminary Plat for property located at 7501 South 49th Street. The preliminary plat proposed to subdivide the existing 32.67-acre property into six R-6 single-family residential lots and five outlots. At the request of Department of City Development staff, the applicant also submitted a Rezoning Application to rezone a portion of the property from C-1 Conservancy District to R-6 Suburban Single-Family Residence District.

At the July 21, 2016 meeting, the Plan Commission recommended approval of the proposed Rezoning and Preliminary Plat. The Rezoning was approved at the October 4, 2016 Common Council meeting; however, the applicant did not move forward with the preliminary plat at that time. The applicant was waiting for a navigability determination from the Wisconsin Department of Natural Resources and later decided to revise the preliminary plat. The preliminary plat was amended to add a cul-de-sac extending from W. Evergreen Street and a storm water pond to

accommodate six additional lots. As staff considered this to be a significant change to the plat, the applicant, on October 10, 2016, submitted a revised plat for staff and Milwaukee County review.

The revised Evergreen Park Estates subdivision plat includes 12 lots and 4 outlots, which are further described below. Note that a future concept plan for the northern portion of the property has also been provided as a separate exhibit.

Project Description/Analysis:

The subject property is located between West Evergreen Street and the future extension of West Marquette Avenue, east of South 51st Street (Taxkey No. 788-9981-001). The property currently contains one single-family home and is approximately 32.67 acres.

The proposed Evergreen Park subdivision layout includes 12 residential lots and 4 outlots. Lot 1 is located south of West Evergreen Street, Lot 2 is located on the north side of W. Evergreen Street opposite Lot 1, eight lots are located on a cul-de-sac extending north from W. Evergreen Street (Lots 3 through 10) and two lots are located east of South 51st Street (Lots 11 and 12).

The lots range in size from about 16,724 square feet to approximately 32,349 square feet, all exceeding the R-6 Residence District minimum of 11,000 square feet. The average or mean lot size is about 21,193 square feet. Lots 1 and 2 will be accessible from West Evergreen Street, Lots 3 through 10 will have access from the proposed Evergreen Park Court and Lots 11 and 12 will be provided ingress/egress from South 51st Street.

The applicant has included a walking trail between Lot 8 and Lot 9. This trail will be extended at the time of Phase 2 to provide a connection from the future extension of W. Marquette Avenue to Pleasant View Neighborhood Park through this subdivision development. *Staff recommends that the applicant shall pave the walking trail between Lots 8 and 9 up to the 50-foot wetland setback line at the same time as construction of the proposed Evergreen Park Court and prior to issuance of an Occupancy Permit for an individual home*. Staff suggests this be paved to the lot boundary, as such, a Natural Resource Protection Standards Public Streets, Sidewalks and Trails exemption would be necessary.

Outlot 1 is located south of W. Evergreen Street and mostly consists of protected natural resource features, largely the 100-year and 500-year floodplain. Outlot 2 inlcudes protected natural resource features and the proposed storm water management pond and will be retained by the developer. Outlot 3 is located on the northern portion of the property and will also be retained by the developer for the planned future phase(s) of the subdivision. Lastly, Outlot 4 is located to the east of the proposed Evergreen Park Court. Outlot 4 is approximately 13-feet wide and will be dedicated to the City. This outlot is meant to help ensure that the existing tree line at that location is protected.

A storm water pond exists to the south east of West Evergreen Street and the proposed subdivision development. The storm water pond design anticipated six residential lots abutting West Evergreen Street and was sized and constructed accordingly; therefore, the applicant had to

provide additional storm water facilities to accommodate the additional lots. As mentioned, a pond is proposed within Outlot 2. *Note that staff is recommending that any land disturbance and impervious surface within Lots 11 and 12 be made part of and included in the storm water calculations for any future phase of development upon the subject property.*

Please be aware that the applicant has indicated and briefly discussed with staff, the possibility of re-sizing and utilizing the existing pond on City property for the proposed subdivision development and converting the area proposed for storm water management into a buildable lot, with a donation to the park as well. This will require additional discussions with the City; however, if this occurs it will require an amendment to the plat, which could potentially be done at the time of Final Plat, if deemed to still substantially conform to the Prelimianry Plat. Staff notes that if the existing pond is utilized, the proposed Evergreen Park Court could be moved further west to greater protect the tree line on that side of the property, as opposed to the creation of an additional buildable lot.

Generally related to the plat, *staff is also recommending that the applicant shall submit a revised Preliminary Plat application for Department of City Development review and approval, prior to submittal of a Final Plat, which includes:*

- *a grading and drainage plan, including the impact upon the existing tree line along the east side of the property;*
- *a draft Subdivision Development Agreement; and*
- *storm water management calculations.*

Although there is not a second ingress/egress from West Evergreen Street to/from South 51st Street, the proposed Evergreen Park Court itself is less than 800-feet in length, which complies with Section 15-5.0103 of the UDO (below). It can also be noted that a public path, wide enough to accommodate emergency vehicles, is envisioned to extend from Evergreen Park Court northward through the future phase of this subdivision to Marquette Avenue.

> **Length.** Cul-de-sac streets designed to have one (1) end permanently closed shall not exceed eight hundred (800) feet in length.

Natural Resource Protection Plan:
A Natural Resource Protection Plan (NRPP) is required as part of the Preliminary Plat Application submittal. According to the project narrative, the site contains wetlands and associated wetland buffers and setbacks, floodplain and young woodlands.

The wetlands were delineated by Dave Meyer of Wetland and Waterway Consulting on November 11, 2015. A full and complete wetland delineation report is on file with the Department of City Development. The cover letter of that report is attached. Dave Meyer is a Wisconsin Department of Natural Resources (WDNR) assured delineator; therefore, Department of City Development staff did not require separate review by a City consultant.

The applicant has identified two wetlands on the property. The wetlands are illustrated on the Preliminary Plat. A large wetland runs through the middle of the property and a smaller wetland exists to the east of the properties located at 7582 and 7610 S. 51st Street. The Wisconsin

Department of Natural Resource Features Water Surface Data Viewer identifies the larger wetland as an intermittent stream; however, the WDNR provided a letter, dated October 3, 2016 indicating that the waterway is non-navigable.

The applicant also completed a detailed tree survey of the property, which is attached for review. The NRPP shows approximately 2.888 acres of young woodland present. The applicant is proposing to disturb 1.144 acres or 50% of young woodlands onsite, which meets the protection standard of 50% per Table 15-4.0100 of the UDO.

In review of the applicant's tree survey, staff has determined that a grove exists adjacent to the existing home on the north side of the property. Staff also finds that it is likely a grove exists within the tree line located along the east side of the property as well. *Staff recommends that the tree survey be further reviewed by staff and the applicant's consultant or by a third party consultant to be paid for by the applicant, at the Planning Manager's discretion, to verify if additional woodlands, including groves are present onsite and require protection. Any additional woodlands present shall be shown on the Natural Resource Protection Plan and protected in a conservation easement as required by the Unified Development Ordinance.*

The applicant has not yet provided a written conservation easement for staff review. *Staff recommends that the applicant shall prepare a written conservation easement document for submittal as part of the Final Plat Application for Common Council review and approval*. Staff suggests that the conservation easement also include the 50-foot wetland setback.

Staff is also recommending, with agreement from the applicant, that where a conservation easement exists on an individual lot, the applicant shall mark the location of the conservation easement onsite utilizing signage or boulders. As currently proposed, this will apply to Lots 6 through 10.

Signage:
The applicant did not provide any signage information for this phase of the development. *Staff recommends that any proposed subdivision monument sign(s) shall be subject to review and approval by the Plan Commission and issuance of a Sign Permit from the Inspection Department.*

Comprehensive Master Plan:
The 2025 Future Land Use Map designates the property at 7501 South 49th Street as Residential and Areas of Natural Resource Features. The proposed single-family residential use, along with the protection of natural resources features within a conservation easement, is consistent with the City of Franklin 2025 Comprehensive Master Plan.

Staff Recommendation:

City Development Staff recommends approval of the Preliminary Plat Applications for the development of 12 single-family residential lots, subject to the conditions as noted in the attached draft resolution.

STATE OF WISCONSIN CITY OF FRANKLIN MILWAUKEE COUNTY

[Draft 10-28-16]

RESOLUTION NO. 2016-_____

A RESOLUTION CONDITIONALLY APPROVING A PRELIMINARY PLAT FOR EVERGREEN PARK ESTATES SUBDIVISION (AT APPROXIMATELY 7501 SOUTH 49TH STREET) (RICK J. PRZYBYLA, PRESIDENT OF CREATIVE HOMES, INC., APPLICANT)

WHEREAS, the City of Franklin, Wisconsin, having received an application for approval of a preliminary plat for Evergreen Park Estates Subdivision, such plat being a part of lands in the Northeast 1/4, Southeast 1/4, Southwest 1/4 and Northwest 1/4 of the Southeast 1/4 of Section 11, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin, more specifically, of the property located at approximately 7501 South 49th Street [The Preliminary Plat includes one lot south of West Evergreen Street (Lot 1), one lot north of West Evergreen Street (Lot 2), two lots east of South 51st Street (Lots 11 and 12), 8 lots on the west side of a cul-de-sac extending north from West Evergreen Street and four outlots, which are reserved for future single-family residential lots, proposed and future storm water management facilities and/or consist of protected natural resource features.], bearing Tax Key No. 788-9981-001, Rick J. Przybyla, President of Creative Homes, Inc., applicant; said revised Preliminary Plat having been reviewed by the City Plan Commission and the Plan Commission having recommended approval thereof at its meeting on July 21, 2016, pursuant to certain conditions; and

WHEREAS, the Common Council having reviewed such application and Plan Commission recommendation and the Common Council having determined that such proposed revised preliminary plat is appropriate for approval pursuant to law upon certain conditions.

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and Common Council of the City of Franklin, Wisconsin, that the revised Preliminary Plat of Evergreen Park Estates Subdivision, as submitted by Rick J. Przybyla, President of Creative Homes, Inc., as described above, be and the same is hereby approved, subject to the following conditions:

1. That any and all objections made and corrections required by the City of Franklin, by Milwaukee County, and by any and all reviewing agencies, shall be satisfied and made by the applicant.
2. That all land development and building construction permitted or resulting under this Resolution shall be subject to impact fees imposed pursuant to §92-9. of the Municipal Code or development fees imposed pursuant to §15-5.0110 of the Unified Development Ordinance, both such provisions being applicable to the development and building permitted or resulting hereunder as it occurs from time to time, as such Code and Ordinance provisions may be amended from time to time.

3. Franklin Oasis, LLC, successors and assigns and any developer of the Evergreen Park Estates 6 lot single-family residential subdivision development shall pay to the City of Franklin the amount of all development compliance, inspection and review fees incurred by the City of Franklin, including fees of consults to the City of Franklin, for the Evergreen Park Estates 12 lot single-family residential subdivision development, within 30 days of invoice for same. Any violation of this provision shall be a violation of the Unified Development Ordinance, and subject to §15-9.0502 thereof and §1-19. of the Municipal Code, the general penalties and remedies provisions, as amended from time to time.

4. The approval granted hereunder is conditional upon Rick J. Przybyla, President of Creative Homes, Inc. and the Evergreen Park Estates 12 lot single-family residential subdivision development project for the property located at approximately 7501 South 49th Street: (i) being in compliance with all applicable governmental laws, statutes, rules, codes, orders and ordinances; and (ii) obtaining all other governmental approvals, permits, licenses and the like, required for and applicable to the project to be developed and as presented for this approval.

5. The Evergreen Park Estates 12 lot single-family residential subdivision development project shall be developed in substantial compliance with the terms and provisions of this Resolution.

6. Any land disturbance and impervious surface within Lots 11 and 12 shall be made part of, and included in, the storm water calculations for any future phase of development upon the subject property.

7. The applicant shall submit a revised Preliminary Plat application for Department of City Development review and approval, prior to submittal of a Final Plat, which includes:

    a. A Grading and Drainage Plan, including the impact upon the existing tree line along the east side of the property.

    b. A draft Subdivision Development Agreement.

    c. Storm water management calculations.

8. All building setback lines shall be a minimum of six feet from conservation easement boundaries when protected groves or woodlands are present.

9. Wherever a conservation easement exists on an individual lot, the applicant shall mark the location of the conservation easement onsite utilizing signage or boulders.

10. The applicant shall pave the walking trail between Lots 8 and 9 up to the 50-foot wetland setback line at the same time as construction of the proposed Evergreen Park Court and prior to issuance of an Occupancy Permit for an individual home.

11. The tree survey provided by the applicant shall be further reviewed by staff and the applicant's consultant or by a third party consultant to be paid for by the applicant, at the Planning Manager's discretion, to verify if additional woodlands, including groves are present onsite and require protection. Any additional woodlands present shall be shown on the Natural Resource Protection Plan and protected in a conservation easement as required by the Unified Development Ordinance view of tree survey to ensure all woodlands and groves are protected as required by the Unified Development Ordinance

12. The applicant shall prepare a written conservation easement document for submittal as part of the Final Plat Application for Common Council review and approval.

13. Any proposed subdivision monument sign(s) shall be subject to review and approval by the Plan Commission and issuance of a Sign Permit from the Inspection Department.

Introduced at a regular meeting of the Common Council of the City of Franklin this _____ day of _____, 2016.

Passed and adopted at a regular meeting of the Common Council of the City of Franklin this _____ day of _____, 2016.

APPROVED:

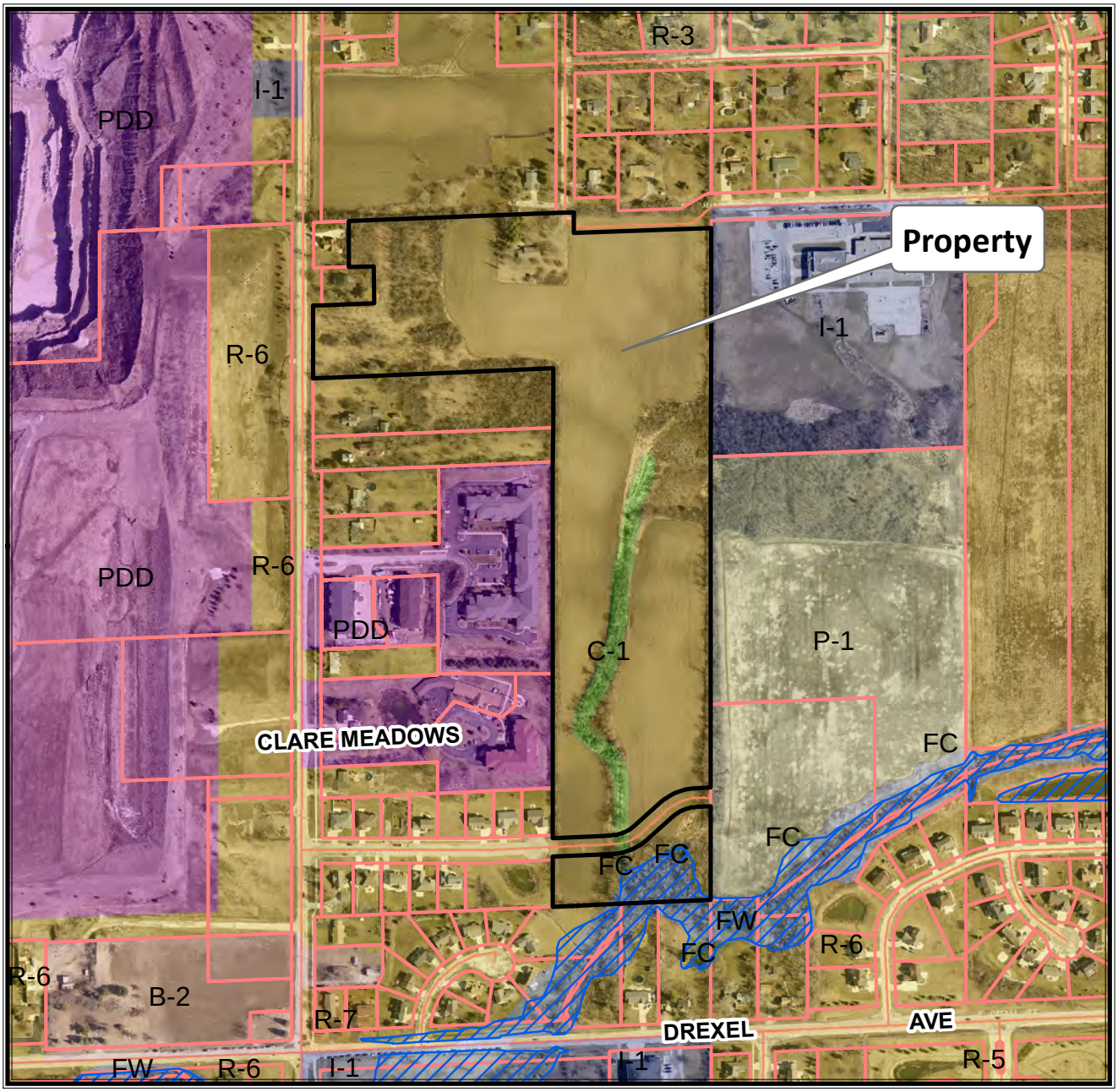
_____
ATTEST: Stephen R. Olson, Mayor

_____
Sandra L. Wesolowski, City Clerk

AYES _____ NOES _____ ABSENT _____

City of Franklin

7501 S. 49th Street
TKN: 788 9981 001



Planning Department
(414) 425-4024

0 305 610 1,220 Feet

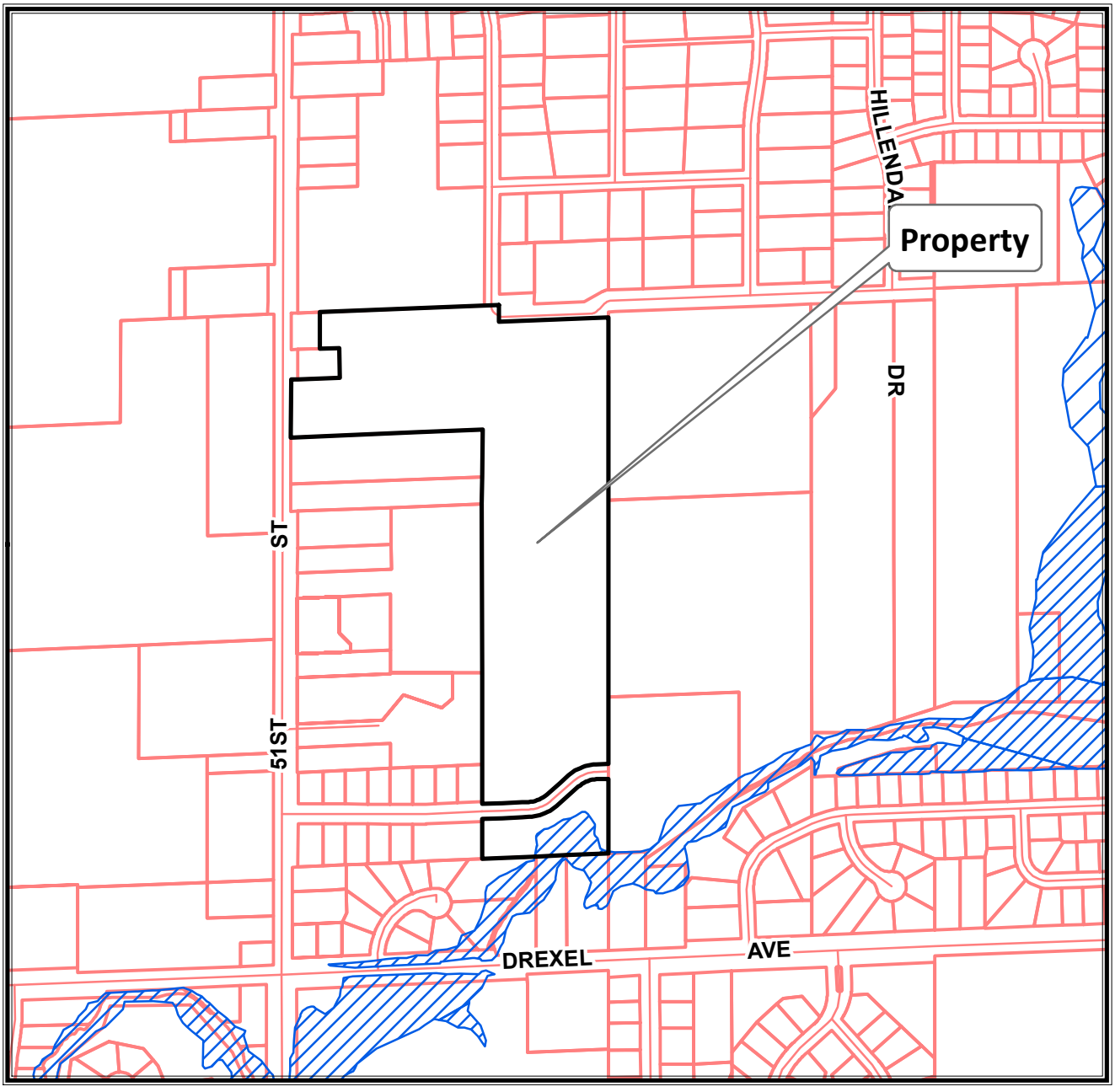
NORTH

2016 Aerial Photo

This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.

City of Franklin

7501 S. 49th Street
TKN: 788 9981 001



Planning Department
(414) 425-4024

0 380 760 1,520 Feet

NORTH

2016 Aerial Photo

This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.

LYNCH & ASSOCIATES
ENGINEERING CONSULTANTS, LLC

Date: 10-26-2016

Mr. Nick Fuchs,
City of Franklin

Re: Revised Evergreen Park Estates Preliminary Plat Staff Comments
Evergreen Park Estates

Dear Mr. Fuchs,

Thank you for your prompt review and assistance on the Evergreen Park Estates sub-division. Below are our responses to the comment letter provided on October 19, 2016.

Department of City Development

1. The lot number has been revised to 12 per the comments.
2. The conservation easement has been depicted more clearly on the preliminary plat as requested.
3. The wetland buffer and wetland setback have been more clearly labeled.
4. There are no protected natural resource areas found or indicated on the survey for Lot 1.
5. It is the preference of the developer to protect the wetland buffers by the placement of signs and stone markers. The reduction of the lot sizes would negatively impact the character of the proposed development.
   - Lot 2 has been adjusted to be out of the protected woodlands and conservation easement..
   - All building setback lines are greater than a minimum of six feet from the conservation easement.
   - Reducing the lot sizes to exclude the wetland buffers would impact the constructability and value of some of the lots. The UDO currently allows wetland buffers in residential lots and the current plan complies with the ordinance.
   - It is the developer's preference to mark the conservation easement will marked on the properties with signage or boulders.
6. By code for a mature woodland an area or strand of trees whose total combined canopy covers an area of one acre or more and at least fifty percent of which is composed of canopies of trees having a diameter of at least 10" at breast height. The eastern area is less than an acre. Therefore it cannot be a mature woodland. To be considered a young woodland, an area or strand of trees whose total combined canopy covers an area of one-half acre or more and at least fifty percent of which is composed of canopies of trees having a diameter of at least 3 inches at breast height. The southeastern area does not have a consistent canopy that is larger than half an acre. Therefore it cannot be considered a young woodland.
   - It is the developer's intent to protect as many trees as reasonable, while preserving the integrity of the development.
   - Options are being contemplated to reduce impacts to the tree line, and we would request to work with staff on those options.

7. The report has been revised to include the delineation report by Dave Meyer.
8. The NRPP narrative has been modified to say the conservation easement will be owned by the Homeowner's Association when not located on private lots.
9. The owner would like to wait to pave the walkway until the water main installation has been completed in future developments. It is our intent to extend the watermain to the limits of the conservation with this development.
10. Conversations and an agreement has been made with Nick Fuchs that the conservation easement document does not need to be submitted until the final plat.
11. The land to the south of lot 12 is planned for future maintenance access to the outlots.
12. A separate exhibit will be provided showing the future phases of the development.
13. Understood, an entrance sign is not planned at this time.
14. Understood, The length of the cul-de-sac meets current standards within the UDO.
15. The calculation worksheet is submitted with this document.
16. The Plan Commission meeting has a public hearing portion which we feel would be an appropriate venue for the discussions.

Engineering Department

1. Lots 1 and 2 are considered to be part of this project and will be included in all stormwater management. It is our understanding that the regional detention pond was designed to accommodate a portion of the development.
   - Lots 12 and 13 will be included with the stormwater calculations for the development.
2. The basin that was originally depicted was conceptual. However, we have adjusted the stormwater pond to more accurately reflect DNR requirements.
3. The area between lots 9 and 10 is part of Outlot 3. A note has been added to clearly identify its purpose on the plans.
4. The right of way has been adjusted to 60 feet.
5. The stormwater pond has been adjusted to meet City of Franklin requirements.

Police Department

No comments.

Fire Department

The proposed road shall meet City of Franklin design standards.

Milwaukee County

Thank you for sending the plans to Milwaukee County for review. We will respond to the comments once received.

Thank you for your time and consideration. If you should have any comments or questions, feel free to contact me at 262.402.5040.

Sincerely,

Daniel E. Meier, P.E.
Director of Private Development

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Waukesha Service Center
141 NW Barstow, Room 180
Waukesha, WI 53188

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

October 3, 2016

Rick Przybyla
9244 W. Grandview Ct
Franklin WI 53132

INF-SE-41-03710

Subject: Navigability Determination

Dear Mr. Przybyla:

This letter follows your request to the Department of Natural Resources (Department) to conduct a navigability determination for a waterway which flows through your property with a tax key number 7889981001, City of Franklin, Milwaukee County. Department staff visited the property on September 7th, 2016 and determined the waterway to be **non-navigable**.

In Wisconsin, the Supreme Court has defined a navigable waterway as one which has a defined bed and banks and carries enough water to float a canoe or other watercraft during high periods of water. Based on this definition, the waterway is non-navigable. While the waterway did have defined bed and bank much of it was either too narrow or not deep enough to float a watercraft. My assessment of the waterway included reviewing historic Department documentation and database records, USGS topographic maps and aerial photographs. The field investigation was conducted on September 7th, 2016, using standard Department protocol regarding the assessment of physical and biological characteristics.

The waterway in question originates in a wetland complex, flows south through a tree line and under Evergreen Ct. See the attached air photo for the location of the non-navigable waterway.

Please contact me if you have any questions.

Sincerely,

Geri Radermacher

Geri Radermacher
Water Management Specialist

Cc: City of Franklin
ACOE
Mike Doble, Lynch & Associates

Non-Navigable tributary to Root River. Site visit 09/07/2016

SECTION 15-3.0502 CALCULATION OF BASE SITE AREA

The ***base site area*** shall be calculated as indicated in Table 15-3.0502 for each parcel of land to be used or built upon in the City of Franklin as referenced in Section 15-3.0501 of this Ordinance.

Table 15-3.0502

WORKSHEET FOR THE CALCULATION OF BASE SITE AREA FOR BOTH RESIDENTIAL AND NONRESIDENTIAL DEVELOPMENT

STEP 1:	Indicate the total gross site area (in acres) as determined by an actual on-site boundary survey of the property.	32.132 acres
STEP 2:	Subtract (-) land which constitutes any existing dedicated public street rights-of-way, land located within the ultimate road rights-of-way of existing roads, the rights-of-way of major utilities, and any dedicated public park and/or school site area.	- Ø acres
STEP 3:	Subtract (-) land which, as a part of a previously approved development or land division, was reserved for open space.	- Ø acres
STEP 4:	In the case of ***"Site Intensity and Capacity Calculations" for a proposed residential use***, subtract (-) the land proposed for nonresidential uses; *or* In the case of ***"Site Intensity and Capacity Calculations" for a proposed nonresidential use***, subtract (-) the land proposed for residential uses.	- Ø acres
STEP 5:	Equals "Base Site Area"	= 32.132 acres

SECTION 15-3.0503 CALCULATION OF THE AREA OF NATURAL RESOURCES TO BE PROTECTED

All land area with those natural resource features as described in Division 15-4.0100 of this Ordinance and as listed in Table 15-3.0503 and lying within the ***base site area*** (as defined in Section 15-3.0502), shall be measured relative to each natural resource feature present. The actual land area encompassed by each type of resource is then entered into the column of Table 15-3.0503 titled "Acres of Land in Resource Feature." The acreage of each natural resource feature shall be multiplied by its respective ***natural resource protection standard*** (to be selected from Table 15-4.0100 of this Ordinance for applicable agricultural, residential, or nonresidential zoning district) to determine the amount of resource protection land or area required to be kept in open space in order to protect the resource or feature. The sum total of all resource protection land on the site equals the ***total resource protection land***. The ***total resource protection land*** shall be calculated as indicated in Table 15-3.0503.

PROTECTION LAND

Natural Resource Feature	Protection Standard Based Upon Zoning District Type (circle applicable standard from Table 15-4.0100 for the type of zoning district in which the parcel is located)			Acres of Land in Resource Feature	
	Agricultural District	Residential District	Non-Residential District.		
Steep Slopes: 10-19%	0.00	0.60	0.40	X _____ =	_____
20-30%	0.65	0.75	0.70	X _____ =	_____
+ 30%	0.90	0.85	0.80	X _____ =	_____
Woodlands & Forests: Mature	0.70	0.70	0.70	X Ø =	_____
Young	0.50	0.50	0.50	X 2.288 = 1.144	_____
Lakes & Ponds	1	1	1	X Ø = Ø	
Streams	1	1	1	X Ø = Ø	
Shore Buffer	1	1	1	X Ø = Ø	
Floodplains/Floodlands	1	1	1	X 1.335 = 1.335	
Wetland Buffers	1	1	1	X 2.566 = 2.566	
Wetlands & Shoreland Wetlands	1	1	1	X 3.804 = 3.804	
TOTAL RESOURCE PROTECTION LAND (Total of Acres of Land in Resource Feature to be Protected)				8.849	

***Note**: In conducting the calculations in Table 15-3.0503, if two or more natural resource features are present on the same area of land, only the most restrictive resource protection standard shall be used. For example, if floodplain and young woodlands occupy the same space on a parcel of land, the resource protection standard would be 1.0 which represents the higher of the two standards.*

SECTION 15-3.0504 CALCULATION OF SITE INTENSITY AND CAPACITY FOR RESIDENTIAL USES

In order to determine the maximum number of dwelling units which may be permitted on a parcel of land zoned in a residential zoning district, the site intensity and capacity calculations set forth in Table 15-3.0504 shall be performed.

Table 15-3.0504

WORKSHEET FOR THE CALCULATION OF SITE INTENSITY AND CAPACITY FOR RESIDENTIAL DEVELOPMENT

STEP 1:	**CALCULATE MINIMAL REQUIRED ON-SITE OPEN SPACE** Take ***Base Site Area*** (from Step 5 in Table 15-3.0502): 32.132 Multiple by Minimum ***Open Space Ratio (OSR)*** (see specific residential zoning district OSR standard): X 0.00 Equals **MINIMUM REQUIRED ON-SITE OPEN SPACE** =	Ø acres
STEP 2:	**CALCULATE NET BUILDABLE SITE AREA:** Take ***Base Site Area*** (from Step 5 in Table 15-3.0502): 32.132 Subtract ***Total Resource Protection Land*** from Table 15-3.0503) or ***Minimum Required On-Site Open Space*** (from Step 1 above), whichever is greater: -8.849 Equals **NET BUILDABLE SITE AREA** =	23.283 acres
STEP 3:	**CALCULATE MAXIMUM NET DENSITY YIELD OF SITE:** Take ***Net Buildable Site Area*** (from Step 2 above): 23.283 Multiply by Maximum ***Net Density (ND)*** (see specific residential zoning district ND standard): X 2.972 Equals **MAXIMUM NET DENSITY YIELD OF SITE** =	69.197 D.U.s
STEP 4:	**CALCULATE MAXIMUM GROSS DENSITY YIELD OF SITE:** Take ***Base Site Area*** (from Step 5 of Table 15-3.0502): 32.132 Multiple by Maximum ***Gross Density (GD)*** (see specific residential zoning district GD standard): X 2.972 Equals **MAXIMUM GROSS DENSITY YIELD OF SITE** =	95.496 D.U.s
STEP 5:	**DETERMINE MAXIMUM PERMITTED D.U.s OF SITE:** Take the ***lowest*** of Maximum Net Density Yield of Site (from Step 3 above) or Maximum Gross Density Yield of Site (from Step 4 above):	69.197 D.U.s

Evergreen Estates Natural Resource Protection Plan **September 30, 2016**

Evergreen Estates is a planned residential development at 7501 South 51st Street within the City of Franklin. The project will be located on a 32.132-acre parcel which is bounded by Evergreen Street, S. 51st Street, and S. 49th Street. The site generally slopes from the northwest to the southeast. There are two wetland on site. There is a small wetland located along the west property line. There is a larger wetland running down the middle of the site.

This project is being developed by Creative Homes, Inc. under the direction of Rick Przybyla, President (414-529-0958). Creative Homes is located at 9244 W. Grandview Ct, Franklin, WI 53132. The current owner of the property is Christine Beringer, Franklin Oasis, LLC, 9055 W. Allerton Ave. Greenfield, WI 53228.

Survey crews have been out to the site to survey the existing trees and wetlands. The wetlands have then been checked by a natural resource professional to identify the type of wetland. The wetlands have also been delineated. Everything has been done in accordance with Division 15-4.0101 of the City of Franklin Unified Development Ordinance.

The natural resources within this parcel are as summarized in Table 1:

Table 1: Evergreen Estates Natural Resource Feature Summary

Natural Resource Feature	Protection Standard	Area Present (Acres)	Area Protected (Acres)	Protection Percent
Wetlands	100%	3.804	3.804	100%
Wetland Buffer (30')	100%	2.566	2.566	100%
Floodplain	100%	1.335	1.335	100%
Young Woodlands	50%	2.288	1.144	50%
Streams	100%	0	0	N/A
Totals		9.993	8.849	

Per Section 15-3.0502, Lynch has calculated the "Base Site Area" for the parcel. The total parcel area equals 32.132 acres. Using the "Calculation of Base Site Area for Residential Development", the site has a **"Base Site Area" of 32.132 acres.**

Per Section 15-3.0504 Lynch has also calculated the "Site Intensity and Capacity For Residential Uses." Based on using the calculations outlined in Table 15-3.0504, the **Maximum Number of Permitted Development Units for this parcel is 69.197.**

As noted in Table 1, there are **8.849 acres of natural resource features** which have been designated for protection. These features include Young Woodlands (Attachment 2: Tree Survey), Wetlands (Attachment 5: Wetland Delineation Report), floodplains, and associated buffers. Please see Attachment 3 for a graphic depiction of these areas.

The method of protection for these features will be consolidation of natural resource features into outlots with conservation easements in place to restrict future uses. All conservation easement areas not located on private land will be held in common by the property owner's association for future protection. Conservation easements located on private land will be shown with signs or boulders. A copy of the conservation easement text is attached as Attachment 1.

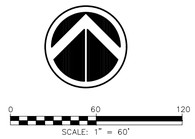
In accordance with the provisions of the City of Franklin Unified Development Ordinance, a map has been prepared to illustrate the planned natural resource protection plan for the proposed development. This is included as Attachment 3.

Attachment 1: Conservation Easement
Attachment 2: Tree Survey
Attachment 3: Site Map and Development Plan
Attachment 4: Site Intensity and Capacity Calculations
Attachment 5: Wetland Delineation Report
Attachment 6: Navigability Determination communication
Attachment 7: Natural Resource Features Key

The wetlands and natural resources will be protected in accordance with the City of Franklin Unified Development Ordinance. If you have any questions concerning this Natural Resource Protection Plan, please contact Lynch and Associates via Mr. Dan Meier, 262.751.1873.

FUTURE PHASE EXHIBIT: EVERGREEN PARK ESTATES

Part of the Southwest 1/4 and Northwest 1/4 of the Southeast 1/4 of Section 11, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin.



WISCONSIN
KENNETH B. MEHRING
S-2838
WATERFORD, WI
LAND SURVEYOR

I have surveyed the above-described property and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all structures thereon, fences, apparent easements, roadways, and visible encroachments, if any.

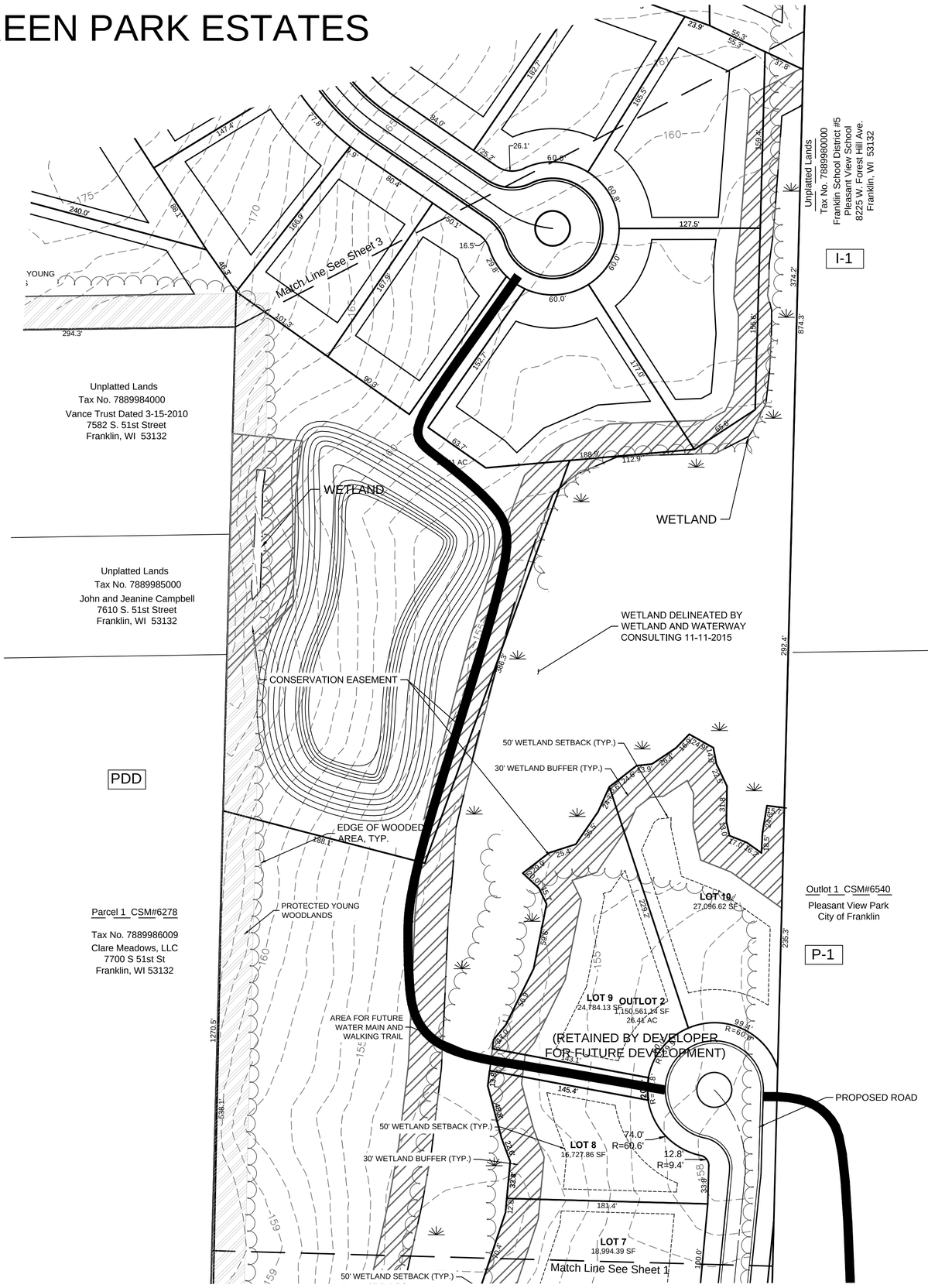
No title commitment or results of a title search were provided to this office pertaining to this survey. This Plat Of Survey may not reflect easements of record, encumbrances, restrictions, ownership, title evidence, or other facts that a current and accurate title search may disclose.

This survey is made for the exclusive use of the present owners of the property, and also those who purchase, mortgage, or insure the title thereto within one (1) year from date hereof; and as to them I warrant the accuracy of said survey map.

KENNETH B. MEHRING, PROFESSIONAL LAND SURVEYOR, S-2838

LEGEND

	EXISTING TELEPHONE PEDESTAL
	EXISTING CULVERT
	EXISTING STORM INLET MANHOLE
	EXISTING CONTOURS
R-6	EXISTING ZONING



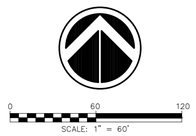
MAP PREPARED BY:
Kenneth B. Mehring, PLS
Lynch & Associates Engineering Consultants, LLC
5482 S. Westridge Dr.
New Berlin, WI 53151

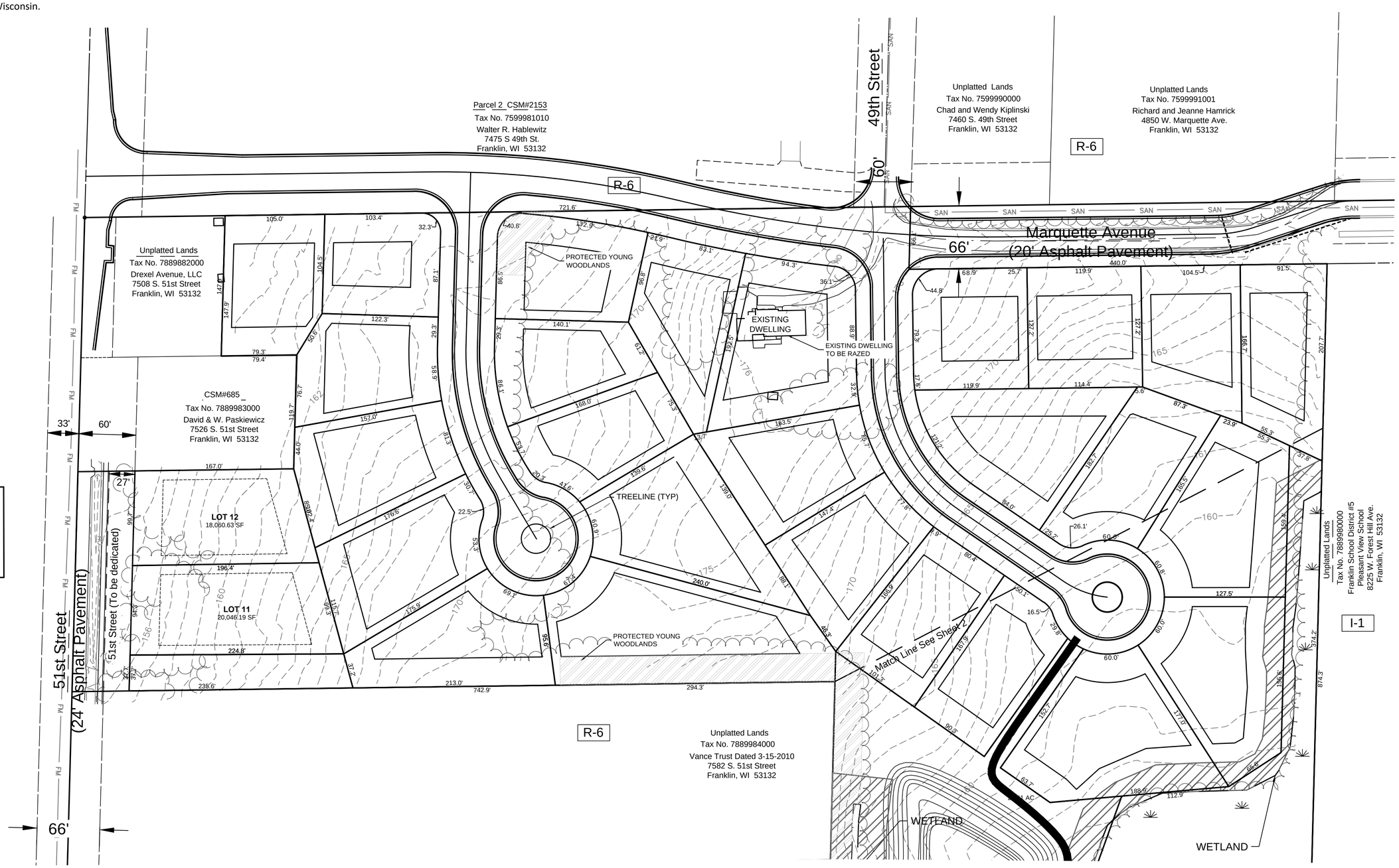
LYNCH & ASSOCIATES
ENGINEERING CONSULTANTS, LLC
5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 248-3697

Sheet 2 of 3
Project No. 15-047
Date: July 13, 2016
Revised: October 5, 2016

FUTURE PHASE EXHIBIT: EVERGREEN PARK ESTATES

Part of the Southwest 1/4 and Northwest 1/4 of the
Southeast 1/4 of Section 11, Township 5 North, Range 21
East, City of Franklin, Milwaukee County, Wisconsin.





LEGEND

- EXISTING TELEPHONE PEDESTAL
- EXISTING CULVERT
- EXISTING STORM INLET MANHOLE
- EXISTING CONTOURS
- R-6 EXISTING ZONING

WISCONSIN
KENNETH B. MEHRING
S-2838
WATERFORD, WI
LAND SURVEYOR

I have surveyed the above-described property and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all structures thereon, fences, apparent easements, roadways, and visible encroachments, if any.

No title commitment or results of a title search were provided to this office pertaining to this survey. This Plat Of Survey may not reflect easements of record, encumbrances, restrictions, ownership, title evidence, or other facts that a current and accurate title search may disclose.

This survey is made for the exclusive use of the present owners of the property, and also those who purchase, mortgage, or insure the title thereto within one (1) year from date hereof; and as to them I warrant the accuracy of said survey map.

KENNETH B. MEHRING, PROFESSIONAL LAND SURVEYOR, S-2838

MAP PREPARED BY:
Kenneth B. Mehring, PLS
Lynch & Associates Engineering Consultants, LLC
5482 S. Westridge Dr.
New Berlin, WI 53151

LYNCH & ASSOCIATES
ENGINEERING CONSULTANTS, LLC

5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 248-3697

Project No. 15-047
Date: July 13, 2016
Revised: October 5, 2016

FILENAME: P:\Shared\1 - Projects\2015\15.047 - Creative Homes, Inc. - 49th St & Rawson\CAD\Sheets\15-047 TREE-PRESRV-EXHIBIT.dwg

PLOT DATE: 10/27/2016 10:19 AM

LYNCH & ASSOCIATES
ENGINEERING CONSULTANTS, LLC

5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 402-5040

NO.	REVISIONS	BY	DATE

EVERGREEN PARK ESTATES

NATURAL RESOURCE AREAS

CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

PRELIMINARY

	INITIALS	DATE
DESIGNED	-	-
DRAWN	PSD	09/06/16
CHECKED	DEM	09/06/16

0 30'
SCALE

PROJECT NO.
15-047

SHEET NO.
1 OF 1

NOTE:
SEE SHEET 5 & 6 OF 6 FOR ADDITIONAL TREE SURVEY INFORMATION. SEE SHEET 4 OF 6 FOR LEGEND.

Unplatted Lands
Tax No. 7889882000
Drexel Avenue, LLC
7508 S. 51st Street
Franklin, WI 53132

Parcel 2 CSM#2153
Tax No. 7599981010
Walter R. Hablewitz
7475 S 49th St.
Franklin, WI 53132

CSM#685
Tax No. 7889983000
David & W. Paskiewicz
7526 S. 51st Street
Franklin, WI 53132

49TH STREET

Shed

Shed

Existing Dwelling

EDGE OF WOODED AREA (TYP.)

33'

60'

27'

51ST STREET
(24' ASPHALT PAVEMENT)

51ST STREET (TO BE DEDICATED)

MATCH LINE SEE SHEET 4

Unplatted Lands
Tax No. 7889984000

Vance Trust Dated 3-15-2010
7582 S. 51st Street
Franklin, WI 53132

5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 402-5040

NO.	REVISIONS	BY	DATE

EVERGREEN PARK ESTATES

TREE SURVEY

–

CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

PRELIMINARY

	INITIALS	DATE
DESIGNED	–	–
DRAWN	PSD	09/06/16
CHECKED	DEM	09/06/16

0 30'
SCALE

PROJECT NO.
15-047

SHEET NO.
1 OF 6

FILENAME: P:\Shared\1 - Projects\2015\15.047 - Creative Homes, Inc. - 49th St & Rawson\CAD\Sheets\15-047 TREE.dwg

PLOT DATE: 10/5/2016 12:38 PM

Outlot 1
Winterhaven Subdivision

Winterhaven Subdivision
Lot 8

Parcel 2 CSM#6275
Tax No. 7889986012
Clare Meadows of Franklin
7760 S 51st St
Franklin, WI 53132

Stonebrook
Lot 6

Unplatted Lands
Tax No. 7889995000
Henry O. Reyes
4720 W. Drexel Ave.
Franklin, WI 53132

Unplatted Lands
Tax No. 7889996000
Cheryl Utphall
4714 W. Drexel Ave.
Franklin, WI 53132

Unplatted Lands
Tax No. 7889997000
Fauzie Qureshi and
Khurram Mytaba
4628 W. Drexel Ave.
Franklin, WI 53132

WEST EVERGREEN STREET
(24' ASPHALT PAVEMENT)
(60' WIDE PUBLIC ROAD)

MATCH LINE SEE SHEET 3

WETLAND

WETLAND DELINEATED BY
WETLAND AND WATERWAY
CONSULTING 11-11-2015

100-YR FLOOD PLAIN
BASE FLOOD ELEVEVATION
= 718.00 PER NAVD 88
= 137.46 PER LOCAL DATUM
PER FEMA MAP #55079C0163E
EFFECTIVE SEPTEMBER 26, 2008

500-YR FLOOD PLAIN
NO BASE FLOOD ELEVATIONS DETERMINED
PER FEMA MAP #55079C0163E
EFFECTIVE SEPTEMBER 26, 2008

NOTE:
SEE SHEET 5 & 6 OF 6 FOR ADDITIONAL TREE SURVEY INFORMATION. SEE SHEET 4 OF 6 FOR LEGEND.

EDGE OF WOODED
AREA (TYP.)

Outlot 2 CSM#6540
Pleasant View Park
City of Franklin

Outlot 1 CSM#6540
Pleasant View Park
City of Franklin

5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 402-5040

NO.	REVISIONS	BY	DATE

EVERGREEN PARK ESTATES
TREE SURVEY
-
CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

PRELIMINARY

	INITIALS	DATE
DESIGNED	-	-
DRAWN	PSD	09/06/16
CHECKED	DEM	09/06/16

0 30'
SCALE

PROJECT NO.
15-047

SHEET NO.
2 OF 6

NOTE:
SEE SHEET 5 & 6 OF 6 FOR ADDITIONAL TREE SURVEY INFORMATION. SEE SHEET 4 OF 6 FOR LEGEND.

Parcel 1 CSM#6278

Tax No. 7889986009
Clare Meadows, LLC
7700 S 51st St
Franklin, WI 53132

Unplatted Lands
Tax No. 7889985000
John and Jeanine Campbell
7610 S. 51st Street
Franklin, WI 53132

Unplatted Lands
Tax No. 7889984000
Vance Trust Dated 3-15-2010
7582 S. 51st Street
Franklin, WI 53132

11185 11188 11189 11187 11190 11191 11192 11193 11194 11195 11197 11196 11202 11203 11206 11205 11208 11211 11198 11199 11201 11204 11207 11209 11212 11213 11210 11215 11214 11218 11220 11219 11221 11222 11223 11225 11226 11229 11227 11230 11231 11232 11233 11234

EDGE OF WOODED AREA (TYP.)

MATCH LINE SEE SHEET 2

MATCH LINE SEE SHEET 4

WETLAND DELINEATED BY WETLAND AND WATERWAY CONSULTING 11-11-2015

WETLAND

Outlot 1 CSM#6540
Pleasant View Park
City of Franklin

5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 402-5040

NO.	REVISIONS	BY	DATE

EVERGREEN PARK ESTATES

TREE SURVEY

–

CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

PRELIMINARY

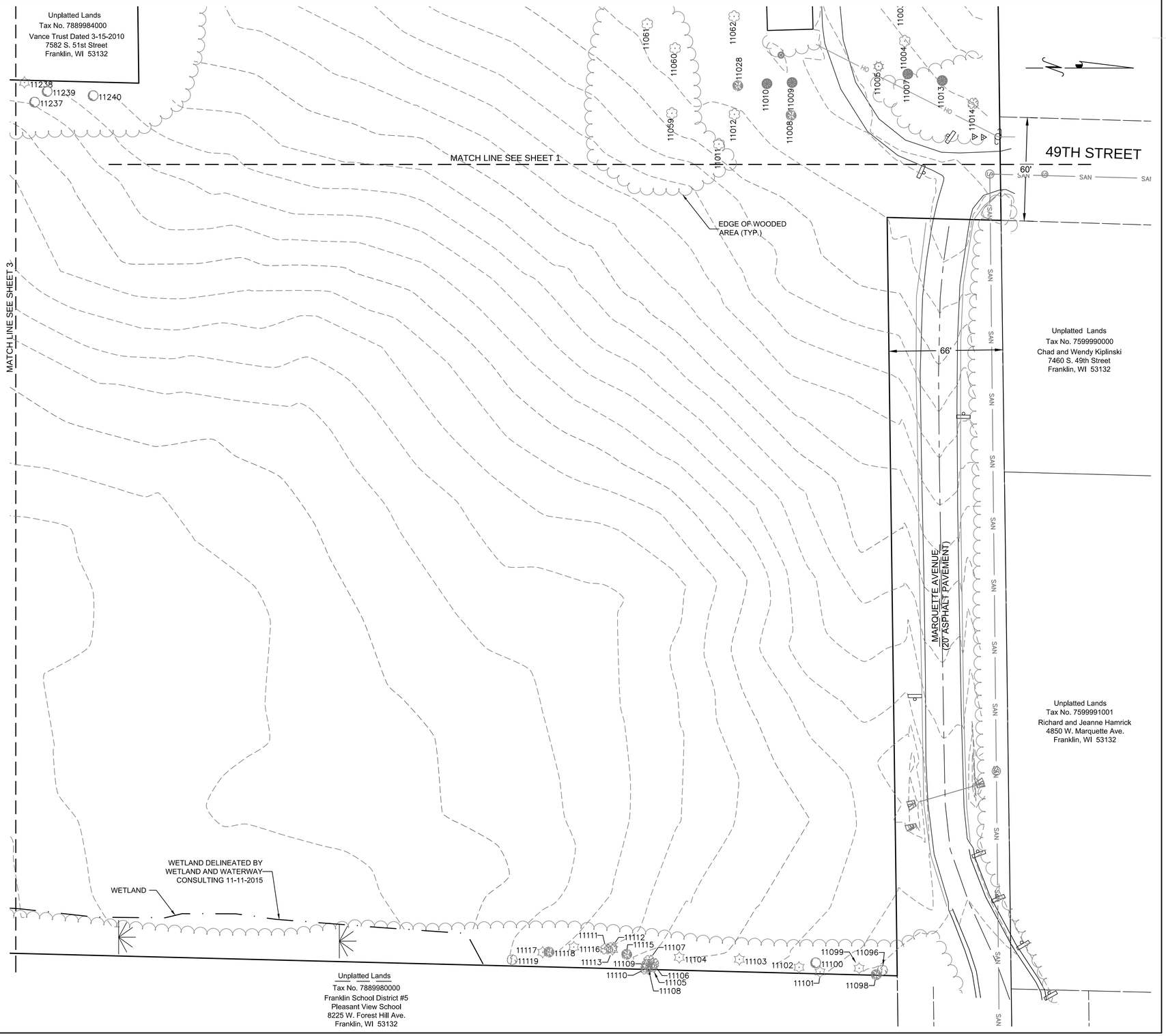
	INITIALS	DATE
DESIGNED	–	–
DRAWN	PSD	09/06/16
CHECKED	DEM	09/06/16

0 30'
SCALE

PROJECT NO.
15-047

SHEET NO.
3 OF 6

NOTE:
SEE SHEET 5 & 6 OF 6 FOR ADDITIONAL TREE SURVEY INFORMATION. SEE SHEET 4 OF 6 FOR LEGEND.



LEGEND

SURVEY CONTROL
- CONTROL POINT
- FOUND 1" IRON PIPE
- MONUMENT - CONCRETE W/ BRASS CAP

EXISTING UTILITIES
- STM — STORM SEWER
- SAN — SANITARY
- FM — SANITARY FORCE MAIN
- OH — OVERHEAD UITLITY
- END SECTION
- HYDRANT
- MANHOLE - SANITARY
- POWER POLE
- STORM INLET - CURB
- WATER MAIN VALVE
- WELL

EXISTING SITE FEATURES
- TREELINE
- SIGN
- TREES

ENVIRONMENTAL FEATURES
- WETLAND BOUNDARY
- WETLAND SYMBOL
- SOIL BORING

5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 402-5040

NO.	REVISIONS	BY	DATE

EVERGREEN PARK ESTATES

TREE SURVEY

CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

PRELIMINARY

	INITIALS	DATE
DESIGNED	-	-
DRAWN	PSD	09/06/16
CHECKED	DEM	09/06/16

0 30'
SCALE

PROJECT NO.
15-047

SHEET NO.
4 OF 6

TREE NUMBER	SPECIES	DBH (IN.)	SHEET REFERENCE
11000	CHERRY	18	1
11001	APPLE	12	1
11002	HICKORY	10	1
11003	MAPLE	18	1
11004	APPLE	10	1
11005	PINE	6	1
11007	MAPLE	24	1
11008	DEAD	16	1
11009	MAPLE	20	1
11010	MAPLE	14	1
11011	APPLE	12	1
11012	APPLE	6	1
11013	MAPLE	14	1
11014	HICKORY	22	1
11015	SPRUCE	10	1
11016	SPRUCE	16	1
11017	MAPLE	26	1
11018	MAPLE	16	1
11019	SPRUCE	16	1
11020	SPRUCE	22	1
11021	CEDAR	6	1
11022	CEDAR	8	1
11023	SPRUCE	10	1
11024	SPRUCE	12	1
11025	SPRUCE	8	1
11026	CEDAR	14	1
11028	DEAD	10	1
11030	APPLE	6	1
11032	SPRUCE	18	1
11033	SPRUCE	16	1
11034	ASH	8 & 6 TWIN	1
11035	CEDAR	10	1
11036	CEDAR	10	1
11037	CEDAR	10	1
11038	DEAD	6	1
11039	ASH	5	1
11040	CEDAR	6	1
11041	CEDAR	8	1
11042	ASH	6	1
11043	CEDAR	10	1
11044	CEDAR	6	1
11045	CEDAR	6	1
11046	HICKORY	10	1
11047	MAPLE	28	1
11048	HICKORY	10	1
11049	CEDAR	8	1
11050	CEDAR	10	1
11051	APPLE	6	1
11052	APPLE	8	1
11053	APPLE	8	1
11054	APPLE	6	1
11055	APPLE	6	1
11056	APPLE	4	1
11058	ASH	8	1
11059	APPLE	12	1
11060	APPLE	14	1
11061	APPLE	14	1
11062	APPLE	14	1
11063	MAPLE	16	1
11064	DEAD	6	1
11065	DEAD	10	1
11066	ELM	8	1
11067	ELM	6	1
11068	ELM	4	1
11069	ELM	6	1
11070	ASH	8	1
11071	ELM	3	1
11072	ASH	8	1
11073	MAPLE	8	1
11074	MAPLE	8	1
11075	MAPLE	3	1
11076	ELM	8	1
11077	POPLAR	10	1
11078	ELM	6	1
11079	HICKORY	3	1
11080	ELM	8	1
11081	ELM	8	1
11082	MAPLE	3	1
11083	DEAD	6	1
11084	DEAD	6	1
11085	DEAD	8	1
11086	ELM	3	1
11087	POPLAR	3	1
11088	POPLAR	3	1
11089	MAPLE	6	1
11090	MAPLE	3	1
11091	MAPLE	3	1
11092	DEAD	8	1
11093	ASH	5	1
11094	HICKORY	3	1
11096	HAWTHORN	4	4
11097	ASH	6	1
11098	DEAD	4	4
11099	ASH	6	4
11100	ELM	4	4
11101	ASH	4	4
11102	ASH	10	4
11103	ASH	3	4
11104	ASH	6	4
11105	HICKORY	16	4
11106	HICKORY	6	4
11107	HICKORY	8	4
11108	HICKORY	8	4
11109	HICKORY	6	4
11110	HICKORY	3	4
11111	HICKORY	3	4
11112	HICKORY	4	4
11113	ASH	4	4
11114	ASH	4	1
11115	DEAD	4	4
11116	ASH	8	4
11117	ASH	3	4
11118	DEAD	3	4
11119	HAWTHORN	6	4
11121	CHERRY	4	2
11122	CHERRY	4	2
11123	OAK	3	2
11124	OAK	3	2
11125	OAK	4	2
11126	OAK	4	2
11127	HAWTHORN	4	2
11128	OAK	8	2
11129	OAK	3	2
11130	OAK	12	2
11131	OAK	3	2
11132	OAK	6	2
11133	OAK	10	2
11134	CHERRY	8	2
11135	OAK	14	2
11136	ASH	6	2
11137	ASH	4	2
11138	CHERRY	3	2
11139	ASH	8	2
11140	ASH	4	2
11141	CHERRY	3	2
11142	CHERRY	3	2
11143	ASH	4	2
11144	CHERRY	3	2
11145	ELM	10	2
11146	ASH	6	2
11147	CHERRY	6	2
11148	ASH	3	2
11149	ASH	3	2
11150	ASH	3	2
11151	ASH	6	2
11153	ASH	3	2
11154	ASH	10	2
11155	DEAD	6	2
11156	DEAD	6	2
11157	ASH	3	2
11158	ASH	6	2
11159	OAK	6	2
11160	OAK	8	2
11161	ELM	14	2
11162	OAK	12	2
11163	CHESTNUT	5	2
11164	ASH	3	2
11165	DEAD	8	2
11166	ASH	12	2
11167	DEAD	8 TWIN	2
11168	ASH	5	2
11169	CHERRY	6	2
11171	ASH	6	2
11172	CHERRY	6	2
11173	CHERRY	8	2
11174	CHERRY	10	2
11175	CHERRY	12	2
11176	ASH	3	2
11178	ASH	3	2
11179	CHESTNUT	40	2
11181	HICKORY	4	2
11182	CHERRY	10	2
11183	CHERRY	8	2
11184	OAK	4	2
11185	CHERRY	4	2
11186	ASH	4	1
11187	HAWTHORN	5	3
11188	HAWTHORN	4	3
11189	HAWTHORN	5	3
11190	ASH	4	3
11191	ELM	14	3
11192	MULBERRY	5	3
11193	MULBERRY	8	3
11194	APPLE	3	3
11195	HAWTHORN	10	3
11196	HAWTHORN	4	3
11197	HAWTHORN	4	3
11198	HAWTHORN	6	3
11199	HAWTHORN	6	3
11201	HAWTHORN	3	3
11202	HAWTHORN	6	3
11203	HAWTHORN	4	3
11204	HAWTHORN	4	3
11205	HAWTHORN	6	3
11206	HAWTHORN	8	3
11207	HAWTHORN	6	3
11208	HAWTHORN	6	3
11209	HAWTHORN	6	3
11210	ASH	4	3
11211	HAWTHORN	6	3
11212	HAWTHORN	6	3
11213	HAWTHORN	6	3
11214	HAWTHORN	3	3
11215	HAWTHORN	3	3
11216	ASH	3	1
11217	ASH	4	1
11218	HAWTHORN	3	3
11219	HAWTHORN	3	3
11220	HAWTHORN	4	3
11221	HAWTHORN	10	3
11222	ELM	10	3
11223	CHERRY	10	3
11224	ASH	4	1
11225	HAWTHORN	4	3
11226	ELM	3	3
11227	CHERRY	4	3
11229	ASH	3	3
11230	HAWTHORN	4	3
11231	HAWTHORN	12	3
11232	CHERRY	4	3
11233	ELM	12	3
11234	ELM	8	3
11237	ELM	4	4
11238	ASH	6	4
11239	ELM	16	4
11240	ELM	12	4
11242	DEAD	6	1
11243	ASH	28	1
11244	ELM	4	1
11245	ELM	3	1
11246	ELM	8	1
11247	CHERRY	8	1
11248	ELM	6	1
11249	ELM	6	1
11250	ELM	6	1
11251	ELM	6	1
11252	ELM	6	1
11253	ELM	4	1
11254	ASH	8	1
11255	ASH	6	1
11256	ASH	4	1
11257	CHERRY	4	1
11258	CHERRY	4	1
11259	CHERRY	4	1
11260	ASH	3	1
11261	ASH	12	1
11262	ASH	14	1
11265	APPLE	4	1
11266	APPLE	6	1
11267	ASH	6	1
11268	ASH	8	1
11269	ASH	3	1
11270	ASH	4	1
11271	ASH	3	1
11272	ASH	3	1
11273	ELM	10	1
11274	ELM	8	1
11275	ASH	3	1
11276	ASH	3	1
11277	ELM	3	1
11278	ASH	3	1
11279	ASH	3	1
11280	ASH	6	1
11281	ASH	6	1
11283	ASH	3	1
11284	ASH	4	1
11285	ASH	3	1
11286	ASH	5	1
11287	ASH	6	1
11288	ASH	4	1
11289	ASH	5	1
11290	ASH	3	1
11291	ASH	4	1
11292	ASH	4	1
11293	ASH	3	1
11294	ASH	3	1
11295	ASH	3	1
11296	ASH	5	1
11297	ASH	10	1
11298	ASH	3	1
11299	DEAD	6	1
11300	ASH	3	1
11301	ASH	5	1
11302	ASH	4	1

5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 402-5040

NO.	REVISIONS	BY	DATE

EVERGREEN PARK ESTATES

TREE SURVEY
TREE SPECIES LIST

CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

PRELIMINARY

	INITIALS	DATE
DESIGNED	-	-
DRAWN	PSD	09/06/16
CHECKED	DEM	09/06/16

0 30'
SCALE

PROJECT NO.
15-047

SHEET NO.
5 OF 6

TREE NUMBER	SPECIES	DBH (IN.)	SHEET REFERENCE
11303	ASH	4	1
11304	ASH	5	1
11305	ASH	3	1
11306	ASH	6	1
11307	ASH	5	1
11308	ASH	5	1
11309	ASH	10 TRIPLE	1
11310	ASH	3	1
11311	ASH	10	1
11312	ASH	4	1
11313	ASH	3	1
11314	ASH	6	1
11315	ASH	4	1
11316	ASH	5	1
11317	ASH	3	1
11318	ASH	4	1
11319	ELM	3	1
11320	ELM	4	1
11321	ASH	4	1
11322	ELM	5	1
11323	ASH	3	1
11324	ASH	6	1
11325	ASH	5	1
11326	APPLE	14	1
11327	ASH	5	1
11328	ELM	10	1
11329	ELM	10	1
11331	ELM	6	1
11332	ELM	5	1
11333	APPLE	10	1
11334	ASH	7	1
11335	ASH	4	1
11336	ASH	8	1
11337	ASH	3	1
11338	ASH	3	1
11339	ELM	6	1
11340	APPLE	3	1
11341	ELM	3	1
11342	ASH	4	1
11343	ELM	4	1
11344	ASH	4	1
11345	ASH	4	1
11346	ELM	6	1
11348	ASH	8	1
11349	ASH	4	1
11350	ASH	3	1
11354	ASH	12	1
11355	ASH	5	1
11356	ASH	4	1
11357	ASH	10	1
11358	ASH	6	1
11359	ASH	8	1
11360	ELM	4	1
11361	ELM & ASH	8 & 6	1
11365	ELM	8	1
11366	ASH	4	1
11367	ASH	14 TWIN	1
11368	ASH	6	1
11369	HAWTHORN	8	1
11370	ASH	3	1
11371	ELM	8	1
11372	ASH	4	1
11373	ELM	8	1
11374	ELM	6	1
11375	ELM	8	1
11376	ELM	8	1
11377	ELM	4	1
11378	ELM	6	1
11379	ASH	6	1
11380	ASH	3	1
11381	ASH	5	1

TREE NUMBER	SPECIES	DBH (IN.)	SHEET REFERENCE
11382	ASH	5	1
11383	ASH	6	1
11384	ASH	4	1
11385	ASH	3	1
11386	ASH	5	1
11387	ASH	3	1
11388	ASH	5	1
11389	ASH	8	1
11390	ASH	6	1
11391	ASH	5	1
11392	ASH	8	1
11393	ASH	3	1
11394	ASH	4	1
11395	ASH	4	1
11396	ASH	3	1
11397	ASH	5	1
11398	ASH	4	1
11399	ASH	6	1
11400	ASH	3	1
11401	ASH	6	1
11402	ASH	10	1
11403	ASH	8	1
11404	APPLE	12	1
11405	APPLE	4	1
11407	APPLE	8	1
11408	ASH	4	1
11409	ASH	5	1
11410	ELM	6	1
11411	ASH	3	1
11412	ASH	3	1
11413	ASH	4	1
11414	ASH	5	1
11415	ASH	5	1
11416	ASH	5	1
11417	ASH	4	1
11418	ASH	4	1
11419	ASH	3	1
11420	ASH	3	1
11421	ASH	3	1
11422	ASH	3	1
11423	ASH	3	1
11424	ASH	4	1
11425	ELM	8	1
11426	APPLE	10	1
11427	ASH	4	1
11428	APPLE	8	1
11429	ASH	10	1
11430	ELM	6	1
11431	ELM	8	1
11432	ASH	6	1
11433	APPLE	4	1
11434	APPLE	12	1
11435	ELM	14	1
11436	ELM	10	1
11438	ELM	12	1
11439	APPLE	10	1
11440	LINDEN	6-8 MULTI	1
11441	ELM	8	1
11442	ELM	12	1
11443	ELM	6	1
11444	APPLE	12	1
11445	ELM	6	1
11446	ELM	8	1
11447	ELM	3	1
11448	ASH	3	1
11449	ELM	4	1
11450	ELM	6	1
11451	APPLE	3	1
11452	ELM	4	1
11453	APPLE	3	1
11454	ELM	3	1

TREE NUMBER	SPECIES	DBH (IN.)	SHEET REFERENCE
11455	APPLE	6	1
11456	APPLE	6	1
11457	ASH	4	1
11458	ELM	6	1
11459	ELM	8	1
11460	ASH	4	1
11461	APPLE	16	1
11462	HICKORY	18	1
11463	ASH	3	1
11464	ELM	4	1
11465	WILLOW	55 E SIDE	1
11466	ELM	4	1
11467	WILLOW	4	1
11468	WILLOW	5	1
11469	WILLOW	4	1
11470	ELM	10	1
11471	APPLE	10	1
11472	APPLE	12	1
11473	ASH	4	1
11474	ASH	3	1
11475	APPLE	12	1
11476	ASH	4	1
11477	ASH	12	1
11478	ASH	4	1
11479	ASH	5	1
11481	HICKORY	36 E SIDE	1
11482	SPRUCE	14	1
11483	CEDAR	12	1
11484	MAPLE	34	1
11485	CEDAR	8	1
11486	CEDAR	10	1

5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 402-5040

NO.	REVISIONS	BY	DATE

EVERGREEN PARK ESTATES
TREE SURVEY
TREE SPECIES LIST
CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

PRELIMINARY

	INITIALS	DATE
DESIGNED	-	-
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CHECKED	DEM	09/06/16

0 30'
SCALE

PROJECT NO.
15-047

SHEET NO.
6 OF 6

PRELIMINARY PLAT: EVERGREEN PARK ESTATES

Part of the Southwest 1/4 and Northwest 1/4 of the
Southeast 1/4 of Section 11, Township 5 North, Range 21
East, City of Franklin, Milwaukee County, Wisconsin.

OWNER/DEVELOPER/MAP PREPARED FOR:
Creative Homes, Inc.
Mr. Rick Przybyla
9244 W. Grandview Ct.
Franklin, WI 53132
(414) 529-0958

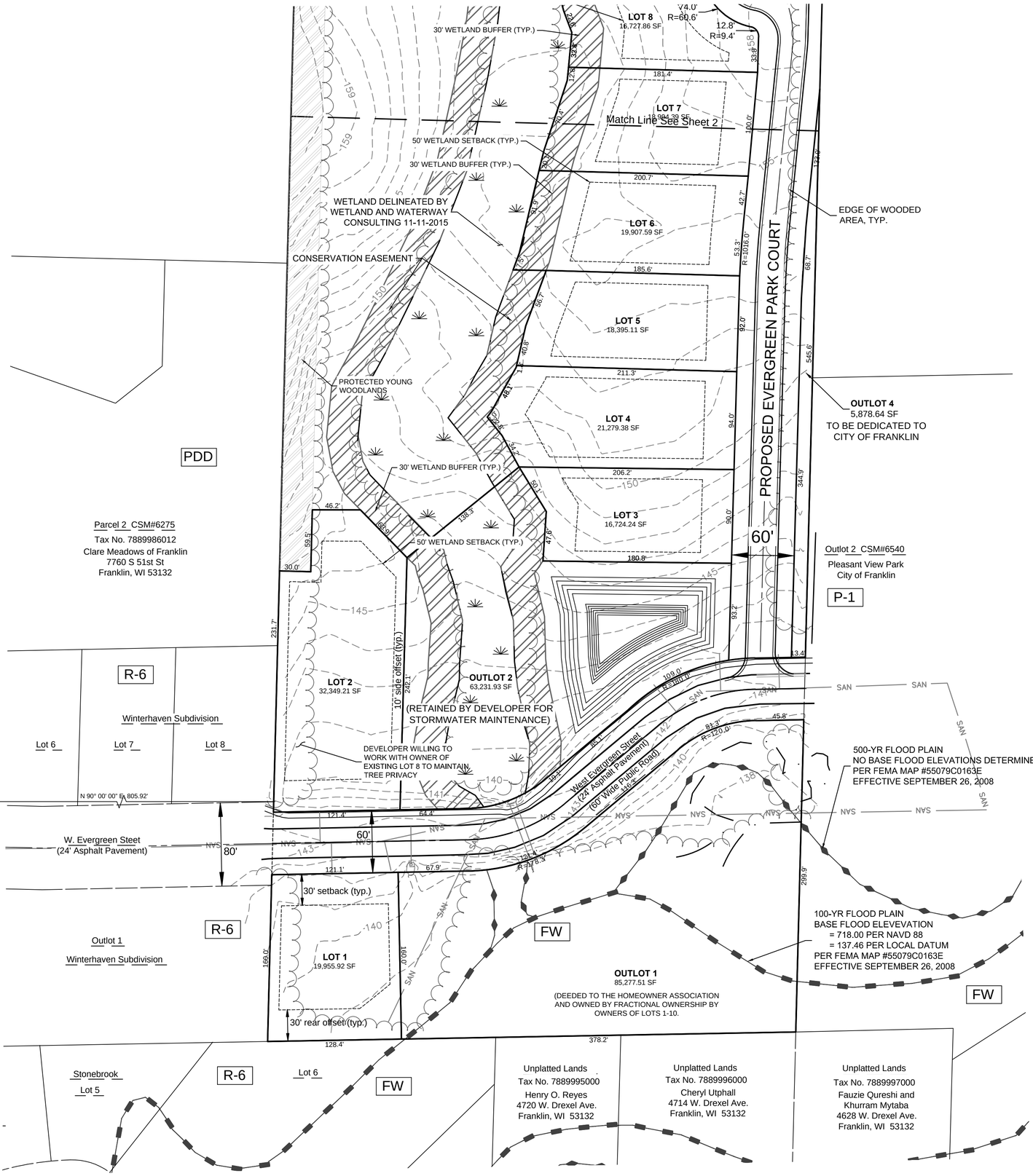
TYPE OF PLAT:
Single Family Residential

SITE DATA:
Proposed Number of Lots = Twelve (12)
One Dwelling Unit per Lot
Gross Site Area = 1,423,215 Square Feet (32.67 acres)

ZONING DATA:
Existing Zoning : R-6, FW
Proposed Zoning: R-6, Suburban Single-Family Residential, FW
Minimum Lot Area=11,000 Sq. Ft.
Minimum Lot Width at Setback Line = 90 Feet
Minimum Lot Width at Setback Line
(Corner Lot) = 100 Feet
Minimum Front Yard Setback = 30 Feet
Minimum Side Yard Setback = 10 Feet/ 19 Feet Corner
Minimum Rear Yard Setback = 30 Feet
Minimum Wetland Buffer = 30 Feet
Minimum Wetland Setback = 50 Feet
Minimum Shore Setback = 75 Feet

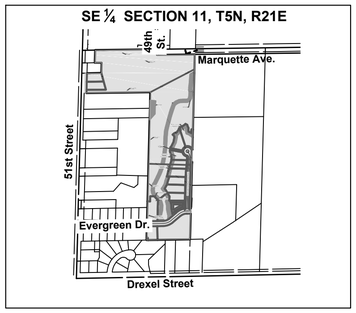
BASEMENT RESTRICTION
Although all lots in the Subdivision have been reviewed and approved for development with single-family residential use in accordance with Section 236 Wisconsin Statutes, some lots may contain soil conditions which, due to the possible presence of groundwater near the surface, may require soil engineering and foundation design with regard to basement construction. It is recommended that either a licensed professional engineer or other soils expert design a basement and foundation which will be suitable to withstand the various problems associated with saturated soil conditions on basement walls or floors or that special measures be taken. Soil conditions should be subject to each owners special investigation prior to construction and no specific representation is made herein.

CONSERVATION EASEMENT RESTRICTIONS
Those areas of land which are identified as Conservation Easements of this subdivision plat shall be subject to the following restrictions:
1. Grading and filling shall be prohibited.
2. The removal of topsoil or other earthen materials shall be prohibited.
3. The removal or destruction of any vegetative cover. i.e., trees, shrubs, grasses, etc., shall be prohibited with the exception of the removal of dead, diseased or dying vegetation at the discretion of landowner, or silvicultural thinning upon the approval of a naturalist and the approval of the City of Franklin.
4. Grazing by domesticated animals, i.e., horses, cows, etc., shall be prohibited.
5. The introduction of plant material not indigenous to the existing environment of the natural area shall be prohibited.
6. Ponds may be permitted subject to the approval of the municipality in which they are located and, if applicable, the Wisconsin Department of Natural Resources and the Army Corps of Engineers.



LEGEND

- EXISTING TELEPHONE PEDESTAL
- EXISTING CULVERT
- EXISTING STORM INLET MANHOLE
- EXISTING CONTOURS
- R-6 EXISTING ZONING



LOCATION DRAWING

0 60 120
SCALE: 1" = 60'

Bearings refer to Grid North of the Wisconsin State Plane Coordinate System Grid, South Zone per N.A.D. 27.
The West line of the Southeast 1/4 of Section 11, Township 5 North, Range 21 East has a reference bearing of N 01°31'24" W.
Elevations based on North American Vertical Datum of 1988 (NAVD-88)

WISCONSIN
KENNETH B. MEHRING
S-2838
WATERFORD, WI
LAND SURVEYOR

I have surveyed the above-described property and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all structures thereon, fences, apparent easements, roadways, and visible encroachments, if any.

No title commitment or results of a title search were provided to this office pertaining to this survey. This Plat Of Survey may not reflect easements of record, encumbrances, restrictions, ownership, title evidence, or other facts that a current and accurate title search may disclose.

This survey is made for the exclusive use of the present owners of the property, and also those who purchase, mortgage, or insure the title thereto within one (1) year from date hereof; and as to them I warrant the accuracy of said survey map.

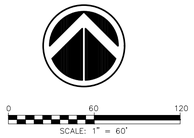
KENNETH B. MEHRING, PROFESSIONAL LAND SURVEYOR, S-2838

MAP PREPARED BY:
Kenneth B. Mehring, PLS
Lynch & Associates Engineering Consultants, LLC
5482 S. Westridge Dr.
New Berlin, WI 53151

LYNCH & ASSOCIATES
ENGINEERING CONSULTANTS, LLC
5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 248-3697

PRELIMINARY PLAT: EVERGREEN PARK ESTATES

Part of the Southwest 1/4 and Northwest 1/4 of the
Southeast 1/4 of Section 11, Township 5 North, Range 21
East, City of Franklin, Milwaukee County, Wisconsin.



I have surveyed the above-described property and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all structures thereon, fences, apparent easements, roadways, and visible encroachments, if any.

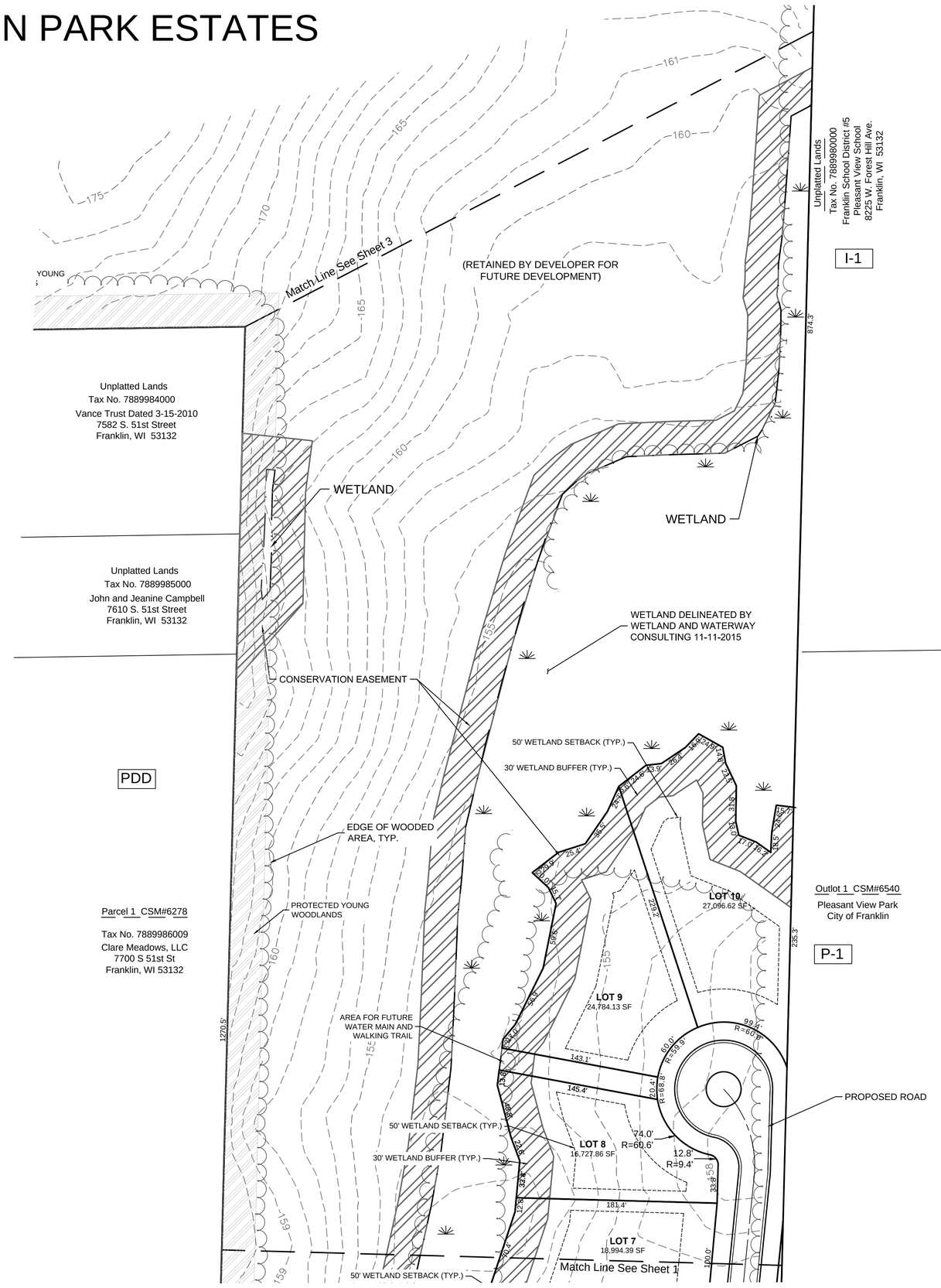
No title commitment or results of a title search were provided to this office pertaining to this survey. This Plat Of Survey may not reflect easements of record, encumbrances, restrictions, ownership, title evidence, or other facts that a current and accurate title search may disclose.

This survey is made for the exclusive use of the present owners of the property, and also those who purchase, mortgage, or insure the title thereto within one (1) year from date hereof; and as to them I warrant the accuracy of said survey map.

KENNETH B. MEHRING, PROFESSIONAL LAND SURVEYOR, S-2838

LEGEND

	EXISTING TELEPHONE PEDESTAL
	EXISTING CULVERT
	EXISTING STORM INLET MANHOLE
	EXISTING CONTOURS
R-6	EXISTING ZONING

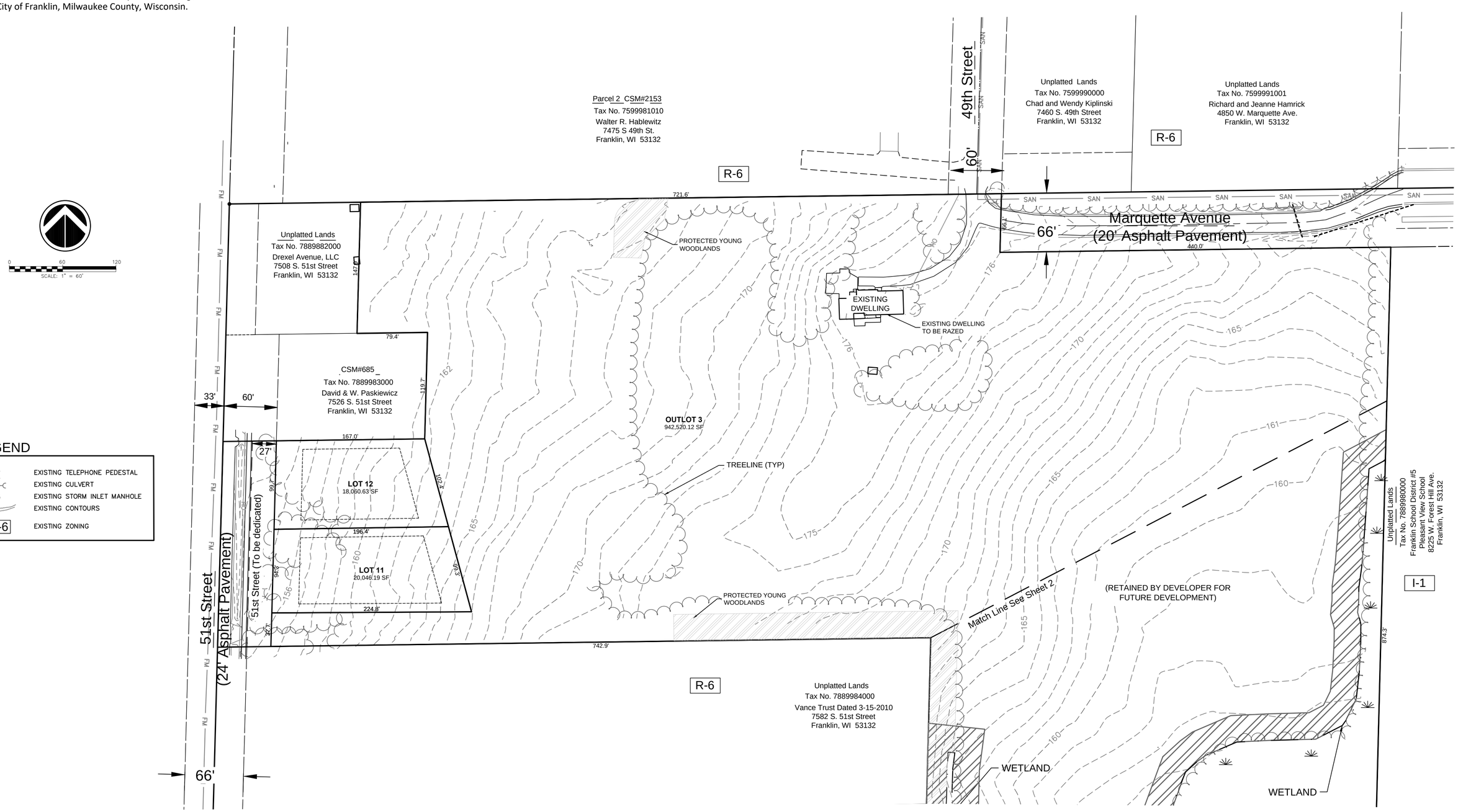


MAP PREPARED BY:
Kenneth B. Mehring, PLS
Lynch & Associates Engineering Consultants, LLC
5482 S. Westridge Dr.
New Berlin, WI 53151

LYNCH & ASSOCIATES
ENGINEERING CONSULTANTS, LLC
5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 248-3697

PRELIMINARY PLAT: EVERGREEN PARK ESTATES

Part of the Southwest 1/4 and Northwest 1/4 of the Southeast 1/4 of Section 11, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin.



LEGEND

- EXISTING TELEPHONE PEDESTAL
- EXISTING CULVERT
- EXISTING STORM INLET MANHOLE
- EXISTING CONTOURS
- R-6 EXISTING ZONING

WISCONSIN
KENNETH B. MEHRING
S-2838
WATERFORD, WI
LAND SURVEYOR

I have surveyed the above-described property and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all structures thereon, fences, apparent easements, roadways, and visible encroachments, if any.

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KENNETH B. MEHRING, PROFESSIONAL LAND SURVEYOR, S-2838

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5482 S. WESTRIDGE DRIVE
NEW BERLIN, WI 53151
(262) 248-3697

Sheet 3 of 3
Project No. 15-047
Date: July 13, 2016
Revised: October 5, 2016

CITY OF FRANKLIN

REPORT TO THE PLAN COMMISSION

Meeting of November 3, 2016

Miscellaneous Application

RECOMMENDATION: Department of City Development staff recommends approval of the proposed monument sign for PDD No. 30, subject to the conditions of approval in the attached draft resolution.

Project Name:	Elizabeth Residence monument sign
Project Address:	9329-9355 S. 48th Street
Property Owner:	GJJR LLC
Applicant:	Robert Hacker, Bauer Sign & Lighting Co.
Current Zoning:	Planned Development District No. 30
2025 Comprehensive Master Plan:	Residential
Use of Surrounding Properties:	Single-family residential to the north, east and west and vacant commercial property to the south
Applicant's Action Requested:	Approval of the proposed monument sign for the Elizabeth Residence development

INTRODUCTION

Please note:

- Staff recommendations are *underlined, in italics* and are included in the draft ordinance.

On September 27, 2016, the applicant submitted a Miscellaneous Application requesting approval of a monument sign for the Elizabeth Residence located at 9329-9355 South 48th Street. The Elizabeth Residence is a Community Based Residential Facility (CBRF) and Residential Care Apartment Complex (RCAC), approved in 1999 via Ordinance 1999-1578.

Ordinance No. 1999-1578 states, "The erection, construction, alteration, and location of signs, other advertising structures, marquees and awnings shall be in compliance with Chapter 210 of the City of Franklin Code and all other applicable laws and Ordinances, as amended from time to time. All identification signage, however, shall consist of monumental-type design, not exceeding seven (7) feet in vertical height from grade elevation. All identification signs shall receive Plan Commission approval prior to Building Permit issuance."

PROJECT DESCRIPTION

The subject property currently contains two CBRF buildings. The remainder of the site is vacant other than the entry drive and the storm water pond to the south of the entry drive, adjacent to S. 51st Street. The proposed sign location is north of the storm water pond (and associated Detention Easement), south of the entry drive and abutting S. 51st Street.

The monument sign includes a brick base, containing the address and a 42.5 square foot sign. The overall height of the sign is 7-feet. The text of the sign will be illuminated.

STAFF RECOMMENDATIONS:

Department of City Development staff recommends approval of the proposed monument sign for PDD No. 30, subject to the following conditions:

1. *The sign shall be setback a minimum of three feet from all property lines.*
2. *A Landscape Plan shall be submitted for review and approval by Department of City Development staff.*
3. *The sign shall be located outside of the Detention Easement as illustrated on Certified Survey Map No. 6872.*
4. *The applicant shall obtain a Sign Permit through the City of Franklin Inspection Department, prior to installation of the sign.*

STATE OF WISCONSIN CITY OF FRANKLIN MILWAUKEE COUNTY
PLAN COMMISSION [*Draft 10-27-16*]

RESOLUTION NO. 2016-____

A RESOLUTION APPROVING A MONUMENT SIGN FOR
ELIZABETH RESIDENCE ASSISTED LIVING COMMUNITY
(AT 9329-9355 SOUTH 48TH STREET)
(JOHN COURY, ELIZABETH RESIDENCE, INC., APPLICANT)

WHEREAS, John Coury, Elizabeth Residence, Inc. having applied for approval of a monument sign adjacent to South 51st Street, for Elizabeth Residence Assisted Living Community, located at 9329-9355 South 48th Street; and

WHEREAS, the Plan Commission having reviewed the proposed monument sign plan and having found same to be in compliance with and in furtherance of the standards of Planned Development District No. 30 (Richard F. Coury).

NOW, THEREFORE, BE IT RESOLVED, by the Plan Commission of the City of Franklin, Wisconsin, that the monument sign plan City file-stamped October 24, 2016, attached hereto and incorporated herein, be and the same is hereby approved, subject to the following conditions:

1. That the signage shall be constructed and installed pursuant to such signage plan within one year from the date of adoption of this Resolution, or this Resolution and all rights and approvals granted hereunder shall be null and void, without any further action by the Plan Commission.

2. The sign shall be set back a minimum of three feet from all property lines.

3. A Landscape plan shall be submitted for review and approval by Department of City Development staff.

4. The sign shall be located outside of the Detention Easement as illustrated on Certified Survey Map No. 6872.

5. The applicant shall obtain a Sign Permit through the City of Franklin Inspection Department, prior to the installation of the sign.

Introduced at a regular meeting of the Plan Commission of the City of Franklin this _____ day of _____, 2016.

Passed and adopted at a regular meeting of the Plan Commission of the City of Franklin this _____ day of _____, 2016.

APPROVED:

_____
Stephen R. Olson, Chairman

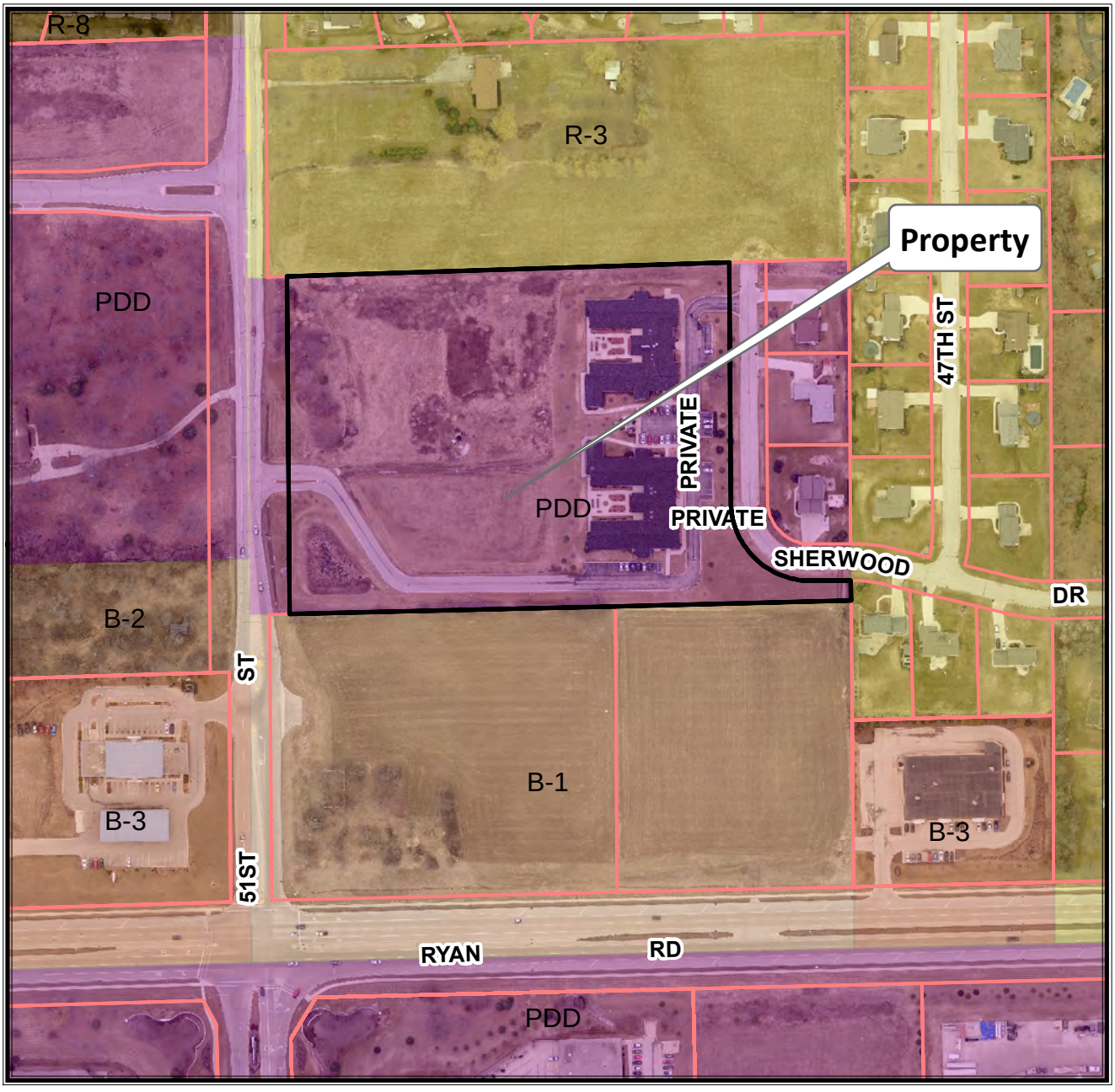
ATTEST:

_____
Sandra L. Wesolowski, City Clerk

AYES _____ NOES _____ ABSENT _____

City of Franklin

9329 - 9355 S. 48th Street
TKN: 881 9997 006



Planning Department
(414) 425-4024

0 155 310 620 Feet

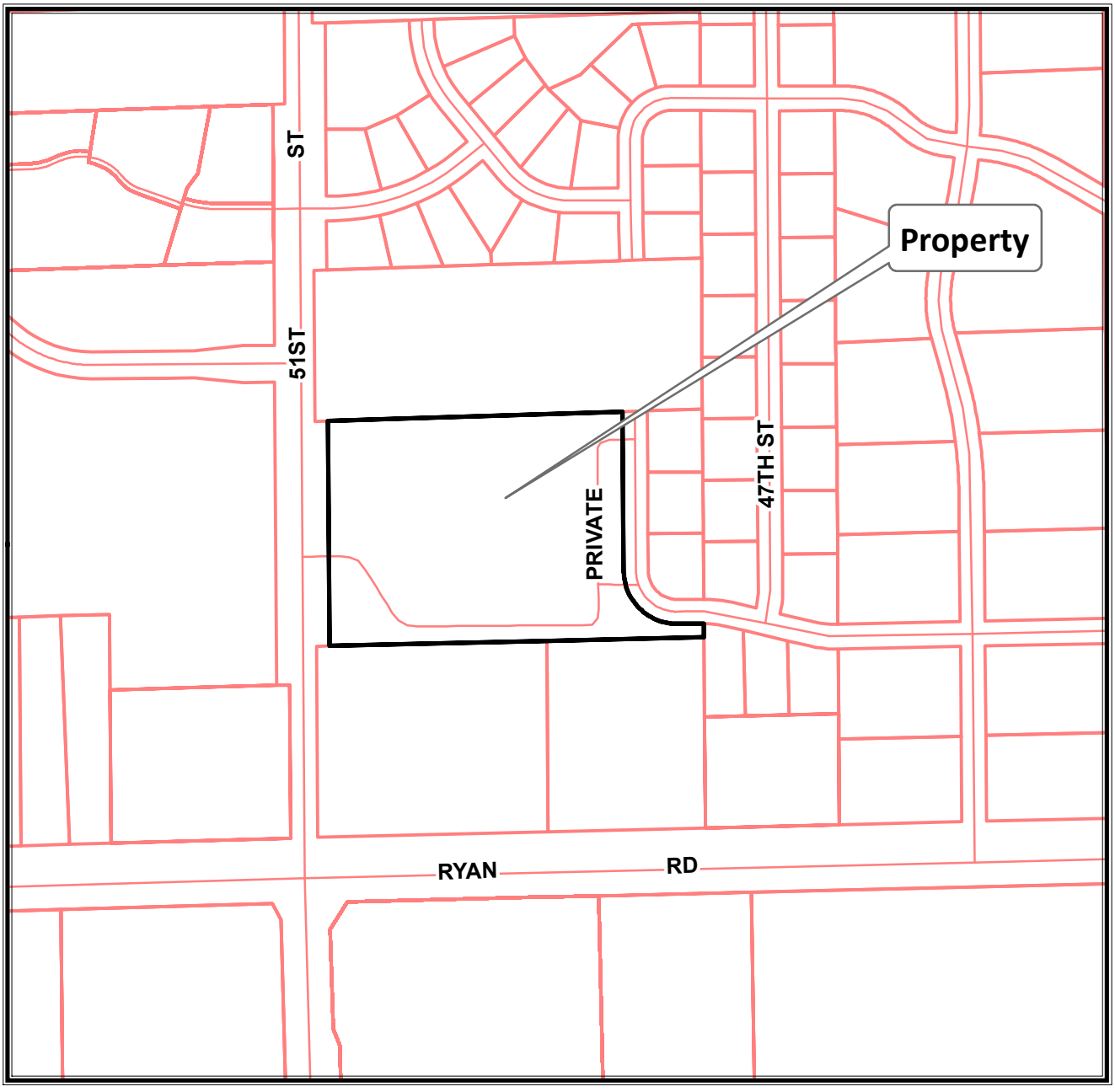
NORTH

2016 Aerial Photo

This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.

City of Franklin

9329 - 9355 S. 48th Street
TKN: 881 9997 006



Planning Department
(414) 425-4024

0 235 470 940 Feet

NORTH

2016 Aerial Photo

This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.

Planning Department
9229 West Loomis Road
Franklin, Wisconsin 53132
Email: generalplanning@franklinwi.gov

City of Franklin

Phone: (414) 425-4024
Fax: (414) 427-7691
Web Site: www.franklinwi.gov

Date of Application: 9-12-16

MISCELLANEOUS APPLICATION

Complete, accurate and specific information must be entered. Please Print.

Applicant ***(Full Legal Name[s]):***
Name: JOHN COUEY
Company: ELIZABETH RESIDENCE
Mailing Address: 9329 S. 48th ST.
City / State: FRANKLIN, WI Zip: 53132
Phone: 414-687-0558
Email Address: 7478coyote@gmail.com

Applicant is Represented by (contact person) ***(Full Legal Name[s]):***
Name: ROBERT A. HACKER
Company: BAUER SIGN & LIGHTING CO.
Mailing Address: 2500 S. 170th ST.
City / State: NEW BERLIN, WI Zip: 53151
Phone: 262-784-0500 X-2301
Email Address: bhacker@bauersignusa.com

Project Property Information:
Property Address: 9329-9355 S. 48th ST.
Property Owner(s): ELIZABETH RESIDENCE
Mailing Address: 9329 S. 48th ST.
City / State: FRANKLIN, WI Zip: 53132
Email Address: 7478coyote@gmail.com

Tax Key Nos:
Existing Zoning:
Existing Use: ASSISTED LIVING
Proposed Use: SAME
Future Land Use Identification:

*The 2025 Comprehensive Master Plan Future Land Use Map is available at: http://www.franklinwi.gov/Home/ResourcesDocuments/Maps.htm

Miscellaneous Application submittals for review must include and be accompanied by the following:

- ☒ This Application form accurately completed with original signature(s). Facsimiles and copies will not be accepted.
- ☒ Application Filing Fee, payable to City of Franklin: ☑ $125
- ☐ Legal Description for the subject property (WORD.doc or compatible format). ON FILE
- ☑ (1) original and six (6) copies of a written Project Narrative, *including detailed description of the project.*
- ☐ Other information as may be deemed appropriate for the request.

- Upon receipt of a complete submittal, staff review will be conducted within ten business days.
- Submittal of Application for review is not a guarantee of approval.
- Plan Commission, Community Development Authority and/or Common Council review and approval may be required.

The applicant and property owner(s) hereby certify that: (1) all statements and other information submitted as part of this application are true and correct to the best of applicant's and property owner(s)' knowledge; (2) the applicant and property owner(s) has/have read and understand all information in this application; and (3) the applicant and property owner(s) agree that any approvals based on representations made by them in this Application and its submittal, and any subsequently issued building permits or other type of permits, may be revoked without notice if there is a breach of such representation(s) or any condition(s) of approval. By execution of this application, the property owner(s) authorize the City of Franklin and/or its agents to enter upon the subject property(ies) between the hours of 7:00 a.m. and 7:00 p.m. daily for the purpose of inspection while the application is under review. The property owner(s) grant this authorization even if the property has been posted against trespassing pursuant to Wis. Stat. §943.13.

(The applicant's signature must be from a Managing Member if the business is an LLC, or from the President or Vice President if the business is a corporation. A signed applicant's authorization letter may be provided in lieu of the applicant's signature below, and a signed property owner's authorization letter may be provided in lieu of the property owner's signature[s] below. If more than one, all of the owners of the property must sign this Application).

Signature - Property Owner
Name & Title (PRINT) JOHN COUEY
Date: 8-2-16

Signature - Property Owner
Name & Title (PRINT)
Date:

Signature - Applicant
Name & Title (PRINT) ROBERT A. HACKER – GEN. MGR.
Date: 8-2-16

Signature - Applicant's Representative
Name & Title (PRINT) ROBERT A. HACKER – GEN. MGR.
Date: 9-2-16

Franklin
OCT 24 2016
City Development

BAUER Sign Company
SHINE BRIGHTLY.
2500 South 170th Street
New Berlin, Wisconsin 53151
Proudly Made In the USA!
wire bauersignusa.com
voice 262.784.0500
fax 262.784.6675

Award Winning Graphic Design

DESIGNFIRMS 2009-10 Graphic Award

SAVED AS Elizabeth Residence
LOCATION Franklin Wi
CLIENT
SALES REP Bob Hacker
DATE 17 May 13
REVISION 23 May 16
21 July 16
5 Oct 16
24 Oct 16

DESIGNER Ryan Becht

Elizabeth Residence monument signage

SPECIFICATIONS

FABRICATE AND INSTALL TWO SIDED INTERNALLY ILLUMINATED ROUTED FACE MONUMENT SIGNAGE WITH MASONRY BASE

- ***CABINET*** *TO BE EXTRUDED ALUMINUM, WITH RADIUS ENDS PAINTED WHITE*
- ***FACES*** *TO BE .125 ROUTED ALUMINUM, PAINTED WHITE*
- ***FACES BACKED*** *WITH 3/16" WHITE PLEXIGLASS SHEETED WITH TRANSLUCENT 3630-76 HOLLY GREEN VINYL OVERLAYS*
  ROSE GRAPHIC TO BE 3630-133 RASPBERRY & 3630-49 BURGUNDY VINYL OVERLAYS
- ***ILLUMINATED*** *WITH WHITE LEDs*
- ***POWERED*** *WITH 120 VOLT ADVANCE POWER SUPPLIES*
- ***REVEAL*** *TO BE 3" ALUMINUM TUBING PAINTED TO MATCH HOLLY GREEN*
- ***BASE*** *TO BE MASONRY TO MATCH BUILDING*
- ***ADDRESS NUMERALS*** *TO BE .125 ROUTED ALUMINUM STUD MOUNTED TO BASE*
- ***LANDSCAPING*** *BY OTHERS*

FABRICATION

- ☐ CHANNEL LETTERS
- ☐ OPEN CHANNEL LETTERS
- ☐ REVERSE CHANNEL LETTERS
- ☐ NEON ACCENTS
- ☐ CABINET SIGN
- ■ MONUMENT SIGN
- ☐ PYLON SIGN
- ☐ PYLON PANEL (S) ONLY
- ☐ PLATE LETTERS
- ☐ OTHER
- ☐ SINGLE SIDED ■ DOUBLE SIDED
- ☐ RACEWAY MOUNT
- ☐ FLUSH MOUNT
- ■ INTERNALLY ILLUMINATED
- ☐ NON ILLUMINATED
- ☐ NEON ☐ LED ■ LAMPS
- ☐ 120 V TRANSFORMERS
- ☐ 30 M.A. ☐ 60 M.A.
- ■ 120 V ADVANCE BALLASTS
- ☐ COMPUTER CUT GRAPHICS
- ☐ DIGITALLY PRINTED GRAPHICS
- ■ .125 ALUMINUM ROUTED FACE
- ☐ PLEX FACE
- ■ PLEX BACKED
- ☐ FLEX FACE
- ☐ LEXAN FACE
- ☐ RETURN
- ☐ TRIMCAP
- ☐ RETAINERS
- ☐ MESSAGE CENTER
- ■ BASE
- ☐ POLE COVER
- ■ ADDRESS NUMBERS
- ☐ SPECIAL INFORMATION

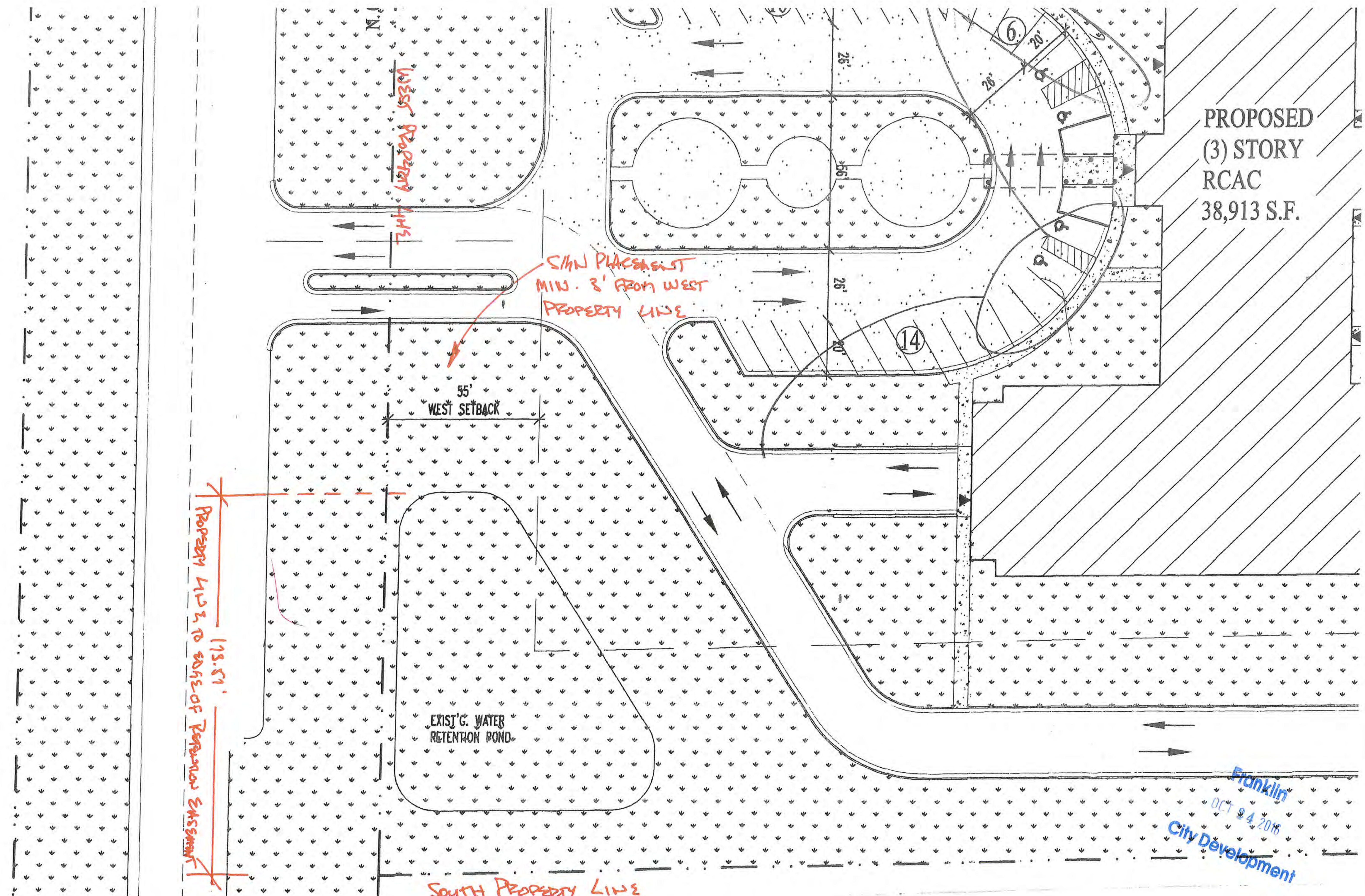
Franklin
OCT 24 2016
City Development
APPROVAL / DATE

Printed artwork colors are not always representative of final product colors. Please refer to specifications for call out or salesman for samples

FINAL ELECTRICAL CONNECTION IS CLIENT'S RESPONSIBILITY

our products are certified by: Underwriters Laboratories, Inc.

This sign shall be manufactured in accordance with Article 600 of the National Electrical Code and / or the applicable local codes. This includes proper grounding and bonding of the sign. Sign shall bear correct UL Labels.

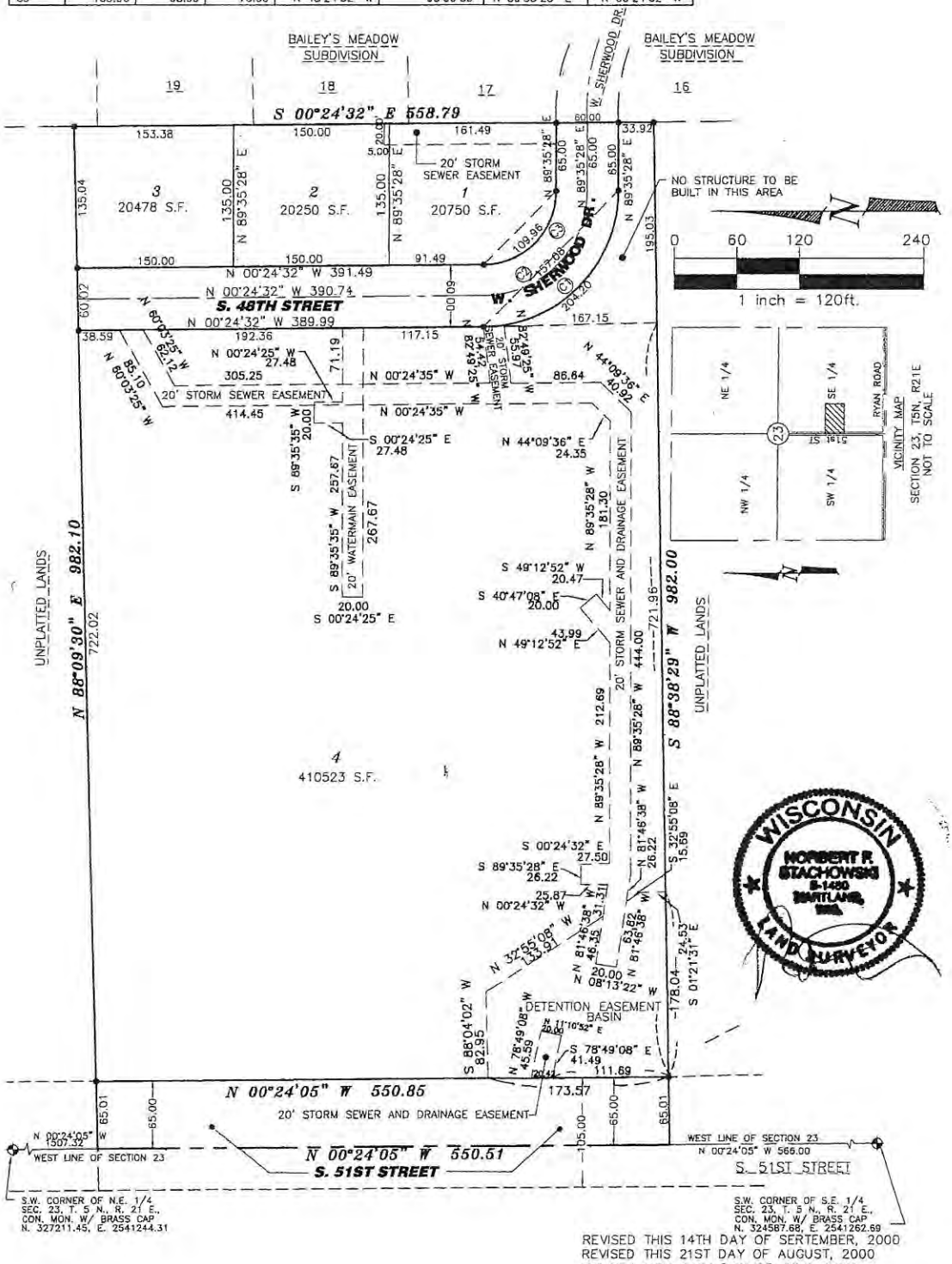

PROPOSED
(3) STORY
RCAC
38,913 S.F.
WEST PROPERTY LINE
SIGN PLACEMENT MIN. 3' FROM WEST PROPERTY LINE
55'
WEST SETBACK
EXIST'G. WATER RETENTION POND
173.51'
PROPERTY LINE TO EDGE OF RETENTION EASEMENT
SOUTH PROPERTY LINE
26'
20'
6
14
Franklin
OCT 24 2016
City Development

FORM BBC-101

CERTIFIED SURVEY MAP No. 6872

PART OF THE NORTHWEST 1/4 AND SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 23, TOWN 5 NORTH, RANGE 21 EAST, CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

CURVE	ARC	CHORD	RADIUS	CHORD BEAR	DELTA	TAN. BEAR	TAN. BEAR
C1	204.20	183.85	130.00	S 45°24'32" E	90°00'00"	N 89°35'28" E	N 00°24'32" W
C2	157.08	141.42	100.00	N 45°24'32" W	90°00'00"	N 89°35'28" E	N 00°24'32" W
C3	109.96	98.99	70.00	N 45°24'32" W	90°00'00"	N 89°35'28" E	N 00°24'32" W



REVISED THIS 14TH DAY OF SERTEMBER, 2000
REVISED THIS 21ST DAY OF AUGUST, 2000
REVISED THIS 25TH DAY OF JULY, 2000
DATED THIS 12TH DAY OF JUNE, 2000

THIS INSTRUMENT WAS DRAFTED BY NORBERT F. STACHOWSKI, S-1480