

3) Wetland B, near DP-3 (similar to Wetland A), ephemeral channel visible in center of wetland area



4) Soy bean field south of wetlands A and B (wetland are in the treeline to the left)



5) Ag field (typical of most of the property)



6) ephemeral channel ("stream #1") located in the tree-line between the ag fields.



7) Additional view of "Stream #1" looking east (up-stream)



8) Wetland C, an area dominated by reed-canary grass



9) Additional view of Wetland C



10) Wetland D, and area of cattail



11) Additional view of Wetland D



12) Norther soybean field on the property



13) Upland woods in the SE corner of the property



14) Ephemeral channel just off-site to the north of the site



15) Upland area just off the ag field on the east edge of the property.

APPENDIX C – WETLAND/UPLAND DETERMINATION DATA FORMS

Project/Site: 60 acres - 3B's and K Road	City/County: Galena	a, Delaware	Sampling Date: 10/22/20
Applicant/Owner: Wallick Communities	City/County: Galena	State. Ohio	Sampling Point: DP-1
	Section, Township, R		
Landform (hillslope, terrace, etc.): level wooded corridor	Local relief (concave, con	nvex none). slight concav	/e Slope (%). <1%
Subregion (LRR or MLRA): Lat: 40.2	Local relief (concave, con	82.936095°	Slope (%)
Subregion (LRR or MLRA): Lat: Lat:	Lo	ong:	Datum:
Soil Map Unit Name: silt loam	_	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation No Soil No , or Hydrology No sig		e "Normal Circumstances" pr	resent? Yes No
Are Vegetation No , Soil No , or Hydrology No na	turally problematic? (If r	needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sampling point	locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sample	ed Area	
Hydric Soil Present? Yes ✓ No	within a Wetla		
Wetland Hydrology Present? Yes No	If yes, optional	l Wetland Site ID: Wetland	d A
Remarks: (Explain alternative procedures here or in a sepa Wetland A is an area nearly devoid of vegetation, loca bit and looses definition.	ted along an ephemeral dra	iinage/way (or channel); v	where the channel widens a
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all th	at apply)	Surface Soil (Cracks (B6)
Surface Water (A1) Water	-Stained Leaves (B9)	Drainage Patt	erns (B10)
	ic Fauna (B13)	Moss Trim Lir	
	Deposits (B15)		Vater Table (C2)
_	gen Sulfide Odor (C1)	Crayfish Burro	
	red Rhizospheres on Living Roo		sible on Aerial Imagery (C9)
	nce of Reduced Iron (C4)		ressed Plants (D1)
	nt Iron Reduction in Tilled Soils		
	/luck Surface (C7) (Explain in Remarks)	Shallow Aquit	ohic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	(Explain in Nemarks)	Microtopograp	
Field Observations:		1 AC Nedital	1031 (100)
Surface Water Present? Yes No _ ✓ Dept	h (inches):		
Water Table Present? Yes No ✓ Dept			
Saturation Present? Yes ✓ No Dept		etland Hydrology Present	? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, as			
Describe Recorded Data (stream gauge, monitoring well, as	enai priotos, previous inspection	is), ii avallable.	
Remarks: Soils were saturated to near the surface in October			

Sampling Point:	DP-1

	Absolute	Dominant	Indicator	Danis and Tark was dishark
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Quercus palustris (pin oak)	35%	yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2				That / ((C OBE, 1 / (OV), 01 1 / (C)
				Total Number of Dominant
troop are not actually in the wetland				Species Across All Strata: 4 (B)
4. trees are not actually in the wetland				Percent of Dominant Species That Are ORL FACILITY or FAC: 100%
5				That Are OBL, FACW, or FAC: 100% (A/B)
6				B. deside
7.				Prevalence Index worksheet:
·	25			Total % Cover of: Multiply by:
451		= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Viburnum dentatum (arrowwood)	20%	yes	FAC	FAC species x 3 =
2				FACU species x 4 =
				UPL species x 5 =
3				Column Totals: (A) (B)
4				
5.				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
				✓ 1 - Rapid Test for Hydrophytic Vegetation
7	20			✓ 2 - Dominance Test is >50%
	20	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5')				4 - Morphological Adaptations ¹ (Provide supporting
1. Toxicodendron radicans (poison ivy)	10%	yes	FAC	data in Remarks or on a separate sheet)
Phalaris arundinacea (reed canary grass)	15%	yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
		-		- Troblematic Trydrophytic Vogetation (Explain)
3	· ——			¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Definitions of Vegetation Strata.
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
11				M. J
12	050/			Woody vines – All woody vines greater than 3.28 ft in height.
	25%	= Total Cov	er	noight.
Woody Vine Stratum (Plot size:)				
1. None				
		·		
2				
3				Hydrophytic
4				Vegetation Present? Yes ✓ No
	0	= Total Cov	er	riesent: res No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Tromand. (molade priote namboro note or on a coparate t	J.1001.)			
The actual wetland area is nearly devoid of vegetation	n			

SOIL

(inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks	Depth	Matrix	to the dep	oth needed to document the indicator or confirm Redox Features	and absence of marcators	•)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Polyvalue Below Surface (S8) (LRR R, Histos (A1) (LRR K, L, MLRA 149B)	(inches)	Color (moist)	%			Remarks
Hydric Soil Indicators: Histosol (A1)	0-24"	10YR 5/2	100		silty/loan	
Hydric Soil Indicators: Histosol (A1)						
Hydric Soil Indicators: Histosol (A1)		· ·				
Hydric Soil Indicators: Histosol (A1)						
Hydric Soil Indicators: Histosol (A1)						
Hydric Soil Indicators: Histosol (A1)					<u> </u>	
Hydric Soil Indicators: Histosol (A1)		-				
Hydric Soil Indicators: Histosol (A1)						
Hydric Soil Indicators: Histosol (A1)						_
Hydric Soil Indicators: Histosol (A1)						
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Bandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, L) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No No / No						
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Bandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, L) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No No / No						
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Bandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, L) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No No / No		-				_
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Bandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, L) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No No / No						
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Bandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, L) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No No / No						
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Bandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, L) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No No / No						
Hydric Soil Indicators: Histosol (A1)	1		-1-4: 50	-Dadward Matrix MO M. J. J. C. J. C. J.	21 1'	
Histosol (A1) Polyvalue Below Surface (S8) (LRR R,			oletion, RM	=Reduced Matrix, MS=Masked Sand Grains.		
MIRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.** **Restrictive Layer (if observed):	•			Polyacina Poloni Curfoca (CO) (LDD D		-
Black Histic (A3)						•
Hydrogen Sulfide (A4)				,	· · · · · · · · · · · · · · · · · · ·	
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic None observed Depth (inches): Mone observed None observed						
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No						
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.** **Restrictive Layer (if observed): Type: None observed			ce (A11)			
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes No	Thick D	ark Surface (A12)		Redox Dark Surface (F6)	Iron-Manganese Ma	sses (F12) (LRR K, L, R)
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No	Sandy	Mucky Mineral (S1)			Piedmont Floodplain	Soils (F19) (MLRA 149B)
Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes✓ No				Redox Depressions (F8)		
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes _ ✓ No						
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes _ ✓ No						
Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No	Dark S	urface (S7) (LRR R ,	MLRA 149	3)	Other (Explain in Re	marks)
Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No	3Indicators	of hydrophytic yeaets	ation and w	atland hydrology must be present upless disturbed	or problematic	
Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No				stand hydrology must be present, unless disturbed	or problematic.	
Depth (inches): No			•			
P. m. (man-1).					Hydria Sail Bracant?	Voc. √ No.
Remarks: Soil is dark in chroma, and is satuated					nyunc son Fresent?	res No
	Remarks: S	oil is dark in chrom	na, and is	satuated		

Project/Site: 60 acres - 3B'	s and K Road	Citv/C	c _{ounty:} Galena, Delaware	: Sar	mpling Date: 10/22/20
Applicant/Owner: Wallick Co			_{County:} Galena, Delaware	ote. Ohio	Sampling Point: DP-2
Investigator(s): Paul Bowye			on, Township, Range:		Sumpling Fourt.
Landform (hillslope, terrace, et	, level woode	ed corridor	ief (concave, convex, none): S	slight concave	Slone (%): <1%
Subregion (LRR or MLRA):	C.).	Local Tell	-82.936	_ 095°	Slope (70)
Subregion (LRR or MLRA):	 n	_ Lat:	Long:		Datum: <u>11 0 0 0 1</u>
Soil Map Unit Name: silt loar					
Are climatic / hydrologic condit					
Are Vegetation No., Soil N	O, or Hydrology	/ NO significantly distur	bed? Are "Normal Circu	ımstances" prese	ent? Yes <u>√</u> No
Are Vegetation No , Soil N	O, or Hydrology	/ <u>No</u> naturally problema	atic? (If needed, explain	າ any answers in	ı Remarks.)
SUMMARY OF FINDING	∋S – Attach si	ite map showing sam	pling point locations,	transects, im	nportant features, etc.
Hydrophytic Vogotation Proce	ont? Vos	√ No	Is the Sampled Area		
Hydrophytic Vegetation Present?		✓ No No✓	within a Wetland?	Yes	No
Wetland Hydrology Present?		No <u> </u>	If yes, optional Wetland Site	_{ID} . Upland ne	ear A and B
Remarks: (Explain alternative			ii yoo, optional Wotalia oito		
upland point near wetlands	à and B	. ,			
HYDROLOGY					
Wetland Hydrology Indicate	ors:		Seco	ndary Indicators	(minimum of two required)
Primary Indicators (minimum	of one is required;	check all that apply)		Surface Soil Crad	
Surface Water (A1)		Water-Stained Leave		Drainage Pattern	
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines	
Saturation (A3)		Marl Deposits (B15)		Dry-Season Wate	
Water Marks (B1)		Hydrogen Sulfide Ode		Crayfish Burrows	
Sediment Deposits (B2)		Oxidized Rhizosphere	* ' ' —		e on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduced	• •	Stunted or Stress	
Algal Mat or Crust (B4)		Recent Iron Reductio		Geomorphic Pos	
Iron Deposits (B5)		Thin Muck Surface (C		Shallow Aquitard	
Inundation Visible on Ae		Other (Explain in Ren		Microtopographic	
Sparsely Vegetated Con-	cave Surface (B8)		[FAC-Neutral Tes	it (D5)
Field Observations:		(5 11 (1 1)			
Surface Water Present?		Depth (inches):			
Water Table Present?		Depth (inches):			Yes No
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	Wetland Hydro	logy Present?	Yes No*
	eam gauge, monitor	oring well, aerial photos, pre	vious inspections), if available	:	
Demonstra					
Remarks: Soils were not saturated or	utside of the wetla	and areas			

Sampling	Point:	DP-2
Samonno	POINT	

<u>Tree Stratum</u> (Plot size: 30')	Absolute	Dominant		Dominance Test worksheet:
1 Quercus palustris (pin oak)	<u>% Cover</u> 25%	Species?	Status FACW	Number of Dominant Species
2. Acer rubrum (red maple)	45%	yes yes	FAC	That Are OBL, FACW, or FAC: $\frac{4}{}$ (A)
				Total Number of Dominant
3. Ulmus Americana (elm)	10%	no	FACW	Species Across All Strata: 4 (B)
4. Acer saccharinum (silver maple)	5%	no	FACW	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100% (A/B)
6				
				Prevalence Index worksheet:
7	050/			Total % Cover of: Multiply by:
451	0370	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Viburnum dentatum (arrowwood)	25%	yes	FAC	FAC species x 3 =
2				FACU species x 4 =
				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50%
	25	= Total Cov	er	
Herb Stratum (Plot size: 5')				3 - Prevalence Index is ≤3.0 ¹
1. Toxicodendron radicans (poison ivy)	10%	yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				T W 1 1 0 (7 0)
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				and greater triair or equal to 5.25 it (1111) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	10%	= Total Cov	er	height.
Woody Vine Stratum (Plot size:)				
4 None				
		·		
2				
3				Hydrophytic
4				Vegetation Present? Yes ✓ No
	0	= Total Cov	er	Tesent: TesNo
Remarks: (Include photo numbers here or on a separate	sheet.)			
The tree-lines marginally meet wetland vegetation cr	iteria; how	ever show	no OBL.	
				I

SOIL

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: Matrix Ms Sand, Gleyed Matrix (S4) Depletion Matrix Ms Sandy Gleyed Matrix (S4) Depletion Matrix (S6) Deple	Depth	Matrix		oth needed to document the indicator or confirm Redox Features		,
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Pydric Soil Indicators: Histosol (A1) Histos (A1) Histos (A1) Histos (A2) Histos (A2) Hydric Soil Present? Polyvalue Below Surface (S8) (LRR R, McL A149B) Coast Prairie Redox (A16) (LRR K, L, R) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Solar Redox Dark Surface (F7) Dark Surface (S7) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MIRA 149B) Piedmont Floodplain Soils (F19) (MIRA 149B) Dark Surface (S7) (LRR R, MLRA 149B) No Wey Shallow Dark Surface (TF12) Other (Explain in Remarks) No ✓ Hydric Soil Present? Yes No _✓ Hydric Soil Present? Yes No _✓	(inches)		%	Color (moist) % Type ¹ Loc ²		Remarks
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) MIRA 149B) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Depleted Dark Surface (F7) Sandy Mucky Mineral (F1) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR K, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes No	0-20"	10YR 4/4	100		silty/loan	
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histosol (A3) Histic Epipedon (A2) Histosol (A3) Histic Epipedon (A2) Histosol (A3) Histosol (A4) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Popleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes No						
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Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A3) Histic (A3) Histic (A3) Histic (A3) Histic Epipedon (A4) Histic Epipedon (A4) Histic Epipedon (A2) MLRA 149B) Som Mucky Mineral (F3) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A12) Redox Dark Surface (F3) Hint Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Dark Surface (S9) (LRR K, L) Hint Dark Surface (S0) (LRR K, L, R) Hint Dark Surface (S0) (LRR K, L, R) Dark Surface (S0) (LRR K, L) Hint Dark Surface (S0) (LRR K, L, R) Hint Dark Surface (S0) (LRR K, L) Hint Dark Surface (S0) (LRR K						
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Histosol (A1)			pletion, RM	=Reduced Matrix, MS=Masked Sand Grains.		
Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Findicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Deptht (inches): Hydric Soil Present? Yes No Casst Prairie Redox (A16) (LRR K, L, R) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Pidvalue Below Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Pidvalue Below Surface (S9) (LRR K, L) Findicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	•			Daharahas Dahara Orofa as (CO) (LDD D		•
Black Histic (A3)						
Hydrogen Sulfide (A4)				,		
Stratified Layers (A5)						
Thick Dark Surface (A12)						
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Mone observed No ✓	Deplete	ed Below Dark Surfac	ce (A11)	Depleted Matrix (F3)	Thin Da	rk Surface (S9) (LRR K, L)
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Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Plank Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Plank Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Plank Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Plank Surface (S7) (LRR R, MLRA 149B)				Redox Depressions (F8)		
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Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes No✓			MLRA 149	B)		
Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes No ✓		, , , , ,		,	`	,
Type: None observed Depth (inches): Hydric Soil Present? Yes No _√				etland hydrology must be present, unless disturbed	or problematic.	
Depth (inches): No):			
. , , , , , , , , , , , , , , , , , , ,	Type: N	one observed				
Remarks: Soil is higher in chroma and is not saturated	Depth (i	nches):			Hydric Soil F	Present? Yes No <u>√</u>
	Remarks: S	oil is higher in chro	oma and is	s not saturated	I.	
		on is riigher in chire	ina ana i	s not saturated		

Project/Site: 60 acres - 3B's and K Roa	ad _{Ci}	tv/County: Galena, Delawa	are	Sampling Date: 10/22/20
Applicant/Owner: Wallick Communities		ty/County: Galena, Delawa	State. Ohio	Sampling Point: DP-3
		ection, Township, Range:		
Landform (hillslope, terrace, etc.): level wo	oded corridor	relief (concave, convey, none	slight conca	ve Slone (%). <1%
Subregion (LRR or MLRA):	40.258932°	182.9	,. <u> </u>	Slope (%)
Subregion (LRR or MLRA):	Lat:	Long:		Datum: _************************************
Soil Map Unit Name: silt loam				
Are climatic / hydrologic conditions on the site	* * * * * * * * * * * * * * * * * * * *	,	•	·
Are Vegetation NO , Soil No , or Hydro			ircumstances" p	resent? Yes No
Are Vegetation No , Soil No , or Hydro	ology <u>No</u> naturally probl	ematic? (If needed, exp	olain any answer	rs in Remarks.)
SUMMARY OF FINDINGS - Attack	h site map showing s	ampling point location	s, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes	es _ ✓ No	Is the Sampled Area	,	
	es No	within a Wetland?	Yes_	No
1 *	es No	If yes, optional Wetland S	Site ID: Wetlan	d B
Remarks: (Explain alternative procedures h	nere or in a separate report.)	•		
Wetland B is an area nearly devoid of ve	egetation, located along a	an ephemeral drainage/way	y (or channel)	
HYDROLOGY				
Wetland Hydrology Indicators:		S	econdary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is requi	ired; check all that apply)		Surface Soil (
Surface Water (A1)	Water-Stained Le		 Drainage Pat	
High Water Table (A2)	Aquatic Fauna (B		Moss Trim Li	
✓ Saturation (A3)	Marl Deposits (B1			Vater Table (C2)
Water Marks (B1)	Hydrogen Sulfide			
Sediment Deposits (B2)	· -		-	sible on Aerial Imagery (C9)
Drift Deposits (B3)	✓ Presence of Redu			ressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Redu	ction in Tilled Soils (C6)	Geomorphic	
Iron Deposits (B5)	Thin Muck Surfac		Shallow Aqui	
Inundation Visible on Aerial Imagery (B	7) Other (Explain in	Remarks)		phic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	<u>.</u>	/_ FAC-Neutral	
Field Observations:				
Surface Water Present? Yes	No✓ Depth (inches): _			
	No✓ Depth (inches): _			_
	No Depth (inches): ^r		drology Presen	t? Yes No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos,	previous inspections), if availa	ible:	
Remarks:				
Soils were saturated to near the surface	e in October			

Sampling Point:	DP-3

Tree Stratum (Plot size: 30')		Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species
1. Quercus palustris (pin oak)	35%	yes	FACW	That Are OBL, FACW, or FAC: $\frac{4}{}$ (A)
2. Acer saccharinum (silver maple) 3.	30%	yes	FACW	Total Number of Dominant Species Across All Strata: 4 (B)
trees are not actually in the wetland				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
5				(17)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	65	= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1 Viburnum dentatum (arrowwood)	20%	yes	FAC	FAC species x 3 =
<u></u>				FACU species x 4 =
2				UPL species x 5 =
3	<u> </u>			Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7.				✓ 1 - Rapid Test for Hydrophytic Vegetation
	20			2 - Dominance Test is >50%
E!		= Total Cov	er	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5') 1. Toxicodendron radicans (poison ivy)	10%	yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				
				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
11				·
12	100/			Woody vines – All woody vines greater than 3.28 ft in height.
	10%	= Total Cov	er	
Woody Vine Stratum (Plot size:) 1. None				
2.				
3	-			Hydrophytic Vegetation
4				Present? Yes No
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
The actual wetland area is nearly devoid of vegetation	n			

SOIL

Depth	cription: (Describe Matrix		Red	dox Featur	es			
(inches)	Color (moist)	_ %	Color (moist)		Type ¹	Loc ²	<u>Texture</u>	Remarks
0-24"	10YR 5/2	90	10YR 4/4	10	_ <u>C</u>		silty/loan	
	<u> </u>		· -					
	-							
	-							
	<u> </u>							
				_				
		_						
	Concentration, D=De	pletion, RN	/I=Reduced Matrix, I	MS=Maske	ed Sand Gra	ins.		PL=Pore Lining, M=Matrix.
•	I Indicators:		Daharaha Dal	l 0	- (CO) (LDD	Б		for Problematic Hydric Soils ³ :
Histoso	DI (A1) Epipedon (A2)		Polyvalue Be		e (S8) (LRR	R,		uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)
	Histic (A3)		Thin Dark Su		(LRR R, ML	RA 149B		ucky Peat or Peat (S3) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Mucky	/ Mineral (F1) (LRR K,			urface (S7) (LRR K, L)
	ed Layers (A5)		Loamy Gleye		⁻ 2)			ue Below Surface (S8) (LRR K, L)
	ed Below Dark Surfa	ce (A11)	✓ Depleted Mat		21			ark Surface (S9) (LRR K, L)
	Dark Surface (A12) Mucky Mineral (S1)		Redox Dark S Depleted Dar					anganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depre					Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)			•	,			rent Material (F21)
	ed Matrix (S6)							nallow Dark Surface (TF12)
Dark S	urface (S7) (LRR R ,	MLRA 149	0B)				Other (I	Explain in Remarks)
3Indicators	of hydrophytic vegeta	ation and w	vetland hydrology m	ust he nre	sent unless	disturbed	or problematic	
	Layer (if observed		reading thy are regy th	<u> </u>		diotal bod	Tor problemane.	
	one observed	,						
Depth (inches):							Hydric Soil I	Present? Yes <u>√</u> No
	oil is dark in chron	na and is	satuated					
tomanto. 5	on is dark in chion	na, and is	Salualeu					

Project/Site: 60 acres - 3B's and K Road	City/Co	_{ountv:} Galena, Delaware	Sampling Date: 10/22/20
Applicant/Owner: Wallick Communities		ounty: Galena, Delaware State: Ohio	Sampling Point: DP-4
• •			
Investigator(s): Paul Bowyer Landform (hillslope, terrace, etc.): level field	Local relie	of (concave, convex, none). Slight con	cave Slone (%): <1%
Subregion (LRR or MLRA): L	at: 40.259267°	Long: -82.934105°	Glope (70)
Soil Map Unit Name: Silt Ioam	_a	NWI class	Datum
		_	
Are climatic / hydrologic conditions on the site typica			
Are Vegetation No., Soil No., or Hydrology No.			
Are Vegetation No , Soil No , or Hydrology N	naturally problemat	ic? (If needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS - Attach site	map showing sam	pling point locations, transec	ts, important features, etc.
Hadanbata Vandatian Bassanto	/ NI:	Is the Sampled Area	
		within a Wetland? Yes	No
1 -	/ No	If yes, optional Wetland Site ID: Wetla	
Remarks: (Explain alternative procedures here or	in a separate report.)		
Wetland C is an area in the field dominated by	y reed canary grass and	d rush	
HADBOLOGA			
HYDROLOGY Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required)
Primary Indicators (minimum of one is required; ch	nack all that apply)	Surface S	
	Water-Stained Leaves		
	Water-Stained Leaves Aquatic Fauna (B13)		Lines (B16)
	Aquatic Fauria (B13) Marl Deposits (B15)		on Water Table (C2)
· ·	Hydrogen Sulfide Odo		urrows (C8)
	 Oxidized Rhizospheres		Visible on Aerial Imagery (C9)
	✓ Presence of Reduced		Stressed Plants (D1)
, ,	Recent Iron Reduction	• •	nic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C		quitard (D3)
	Other (Explain in Rem		graphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Rein		ral Test (D5)
Field Observations:			141 1551 (25)
Surface Water Present? Yes No	Depth (inches):		
	Depth (inches):		
	Depth (inches): near		eent? Yes No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitorin	ng well, aerial photos, prev	lous inspections), if available:	
Remarks:			
Soils were saturated to near the surface in Oc	ctober		

Project/Site: 60 acres - 3B's and K Road	City/County: Gal	lena, Delaware	Sampling Date: 10/22/20				
Applicant/Owner: Wallick Communities	City/County: Galena, Delaware Sampling Date: 10/22/20 State: Ohio Sampling Point: DP-5						
Investigator(s): Paul Bowyer	Section, Township, Range:						
Landfarm (billalana tamana ata), level field	- f /	slight concay	/e Slope (%): <1%				
Subregion (LRR or MLRA):	40.261728°	Long: -82.930755°	Glope (70):				
Subregion (LRR or MLRA): Soil Map Unit Name: Silt loam	Lat.	_ Long					
Are climatic / hydrologic conditions on the site typi		NVI Classifica	auon.				
Are Vegetation No., Soil No., or Hydrology							
Are Vegetation No , Soil No , or Hydrology	naturally problematic?	(If needed, explain any answers	s in Remarks.)				
SUMMARY OF FINDINGS - Attach si	te map showing sampling po	int locations, transects,	important features, etc.				
Hydrophytic Vegetation Present? Yes	√ No Is the Sar	npled Area					
		Vetland? Yes	No				
	✓ No If yes, opti	onal Wetland Site ID: Wetland	d D				
Remarks: (Explain alternative procedures here							
Wetland D is dominated by cattail							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of two required)				
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil 0	Cracks (B6)				
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patt	erns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lir					
✓ Saturation (A3)	Marl Deposits (B15)		Vater Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burro	ows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Roots (C3) Saturation Vis	ible on Aerial Imagery (C9)				
Drift Deposits (B3)	✓ Presence of Reduced Iron (C4)	Stunted or Str	essed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled S	Soils (C6) Geomorphic F	Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquit	ard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopograp	phic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)		✓ FAC-Neutral ⁻	Test (D5)				
Field Observations:							
Surface Water Present? Yes No _	✓ Depth (inches):						
	✓ Depth (inches):		/				
	Depth (inches): near surface	Wetland Hydrology Present? Yes No					
(includes capillary fringe) Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspe	 ctions), if available:					
Becomes reserved Bata (en earn gaage, merme	mg wen, dendi prietes, previede mepe	onerio), il avallable.					
Remarks:							
Soils were saturated to near the surface in (October						

20'	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30')	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. no trees present in wetland area				That Are OBL, FACW, or FAC: 1 (A)
2				
3.				Total Number of Dominant Species Across All Strata: (B)
				Opedies Across Air Strata.
4				Percent of Dominant Species That Are OBL FACW or FAC: 100% (A/B)
5				That Are OBL, FACW, or FAC: 100% (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
15'		= Total Cov	vei	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1				FAC species x 3 =
2. no shrubs in wetland				FACU species x 4 =
3.				UPL species x 5 =
				Column Totals: (A) (B)
4	<u> </u>			Dravelenes Index = D/A =
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
··-				2 - Dominance Test is >50%
E!		= Total Cov	ver	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5')	000/		0.01	4 - Morphological Adaptations ¹ (Provide supporting
1. Typha angustifolia (cattail)	90%	yes	OBL	data in Remarks or on a separate sheet)
2. Phalaris arundinacea (reed canary grass)	5%	no	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3.				
				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				To a Manch plants 2 in (7.0 pm) and page in discrete
7.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9	<u> </u>			and greater than or equal to 3.20 it (1 iii) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	95%	= Total Cov		height.
		- Total Cov	vei	
Woody Vine Stratum (Plot size:)				
1. None				
2				
3.				Hydrophytic
4	-			Vegetation
4				Present? Yes No
		= Total Cov	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			
Wetland is nearly 100% cattail				
Welland is ricarry 10070 callain				

SOIL

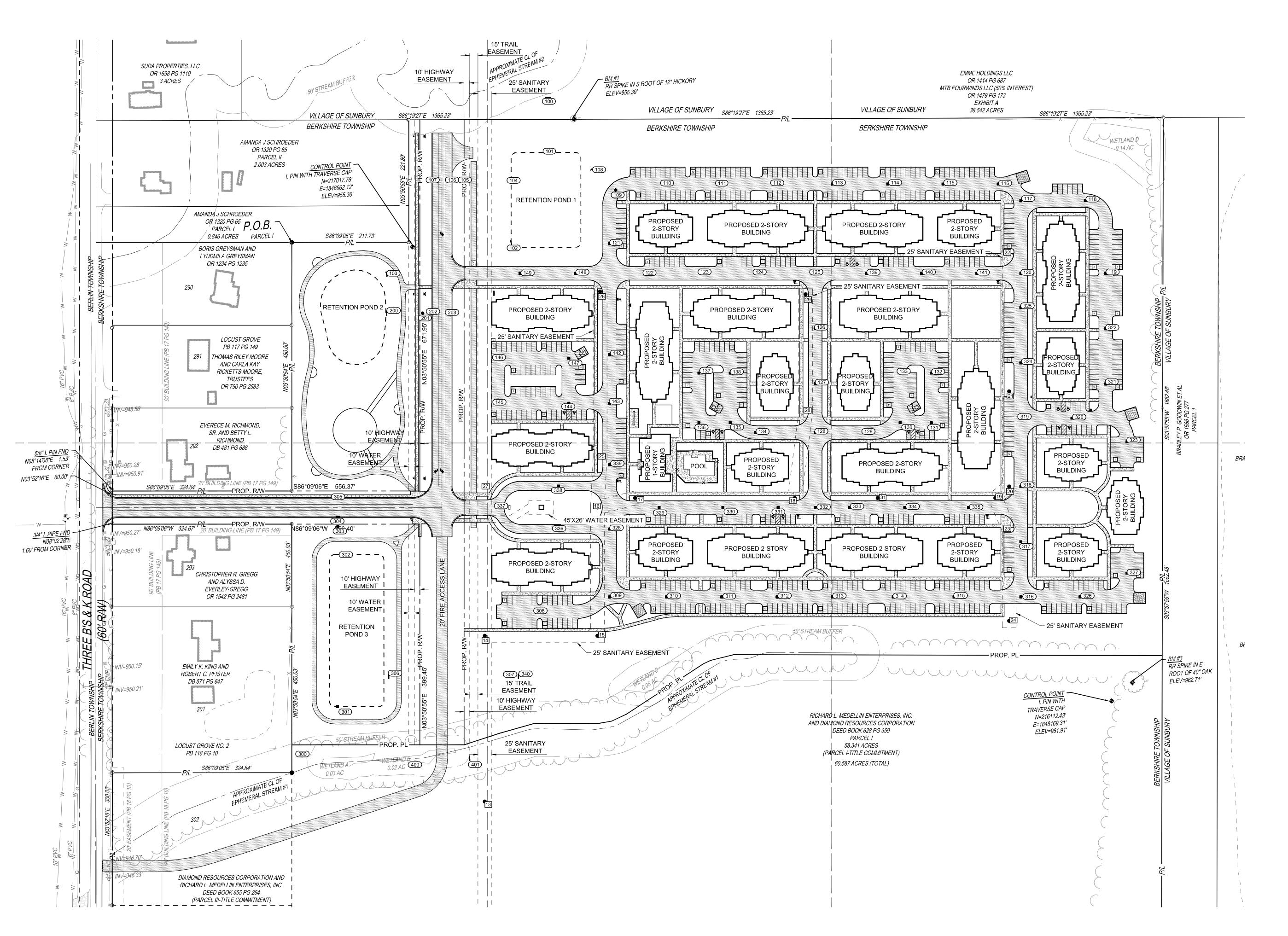
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks O-20" 10YR5/2 100 Silty/loan Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	Depth	Matrix		oth needed to document the indicator or confirm Redox Features		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. A	(inches)					Remarks
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) MIRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Sandy Mucky Mineral (F1) Endox Depleted Dark Surface (F7) Sandy Mucky Mineral (F1) Bedox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Citra K, L, R) Bedox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Dark Surface (F7) Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted	0-20"	10YR5/2	100		silty/loan	
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic (A3) Histosol (A1) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Historia Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydric Soil Present? Yes No No						
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic (A3) Histosol (A1) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Historia Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydric Soil Present? Yes No No		-				
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic (A3) Histosol (A1) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Historia Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydric Soil Present? Yes No No						
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic (A3) Histosol (A1) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Historia Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydric Soil Present? Yes No No						
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Histosol (A4) Hist		-			_	
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Histosol (A4) Hist		-				
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) MIRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Sandy Mucky Mineral (F1) Endox Depleted Dark Surface (F7) Sandy Mucky Mineral (F1) Bedox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Citra K, L, R) Bedox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Dark Surface (F7) Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted						
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) MIRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Sandy Mucky Mineral (F1) Endox Depleted Dark Surface (F7) Sandy Mucky Mineral (F1) Bedox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Citra K, L, R) Bedox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Dark Surface (F7) Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted Below Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) All Citra K, L, R) Depleted		-				
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Histosol (A4) Hist		-				
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic (A3) Histosol (A1) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (F3) Histo Dark Surface (A12) Sandy Mucky Mineral (F3) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (F3) Depleted Dark Surface (F3) Stripped Matrix (S6) Dark Surface (F3) Hydric Soil Present? Yes No Hydric Soil Present? Yes No No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present?						
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Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic (A3) Histic (A3) Histosol (A1) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Coast Pale		_				
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Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic (A3) Histic (A3) Histosol (A1) Histosol (A1) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Coast Pale						
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic (A3) Histosol (A1) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Historia Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydrogen Sulfide (A12) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydric Soil Present? Yes No No						
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Histosol (A4) Hist	J		-1-4: 5::	-Dadward Matrix MO M. J. J. C. J. C. J.	2,	Ol - Dana Linia - A4 A4 4 1
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) S cm Mucky Peat or Peat (S3) (LRR K, L, R) S cm Mucky Peat or Peat (S3) (LRR K, L, R) S cm Mucky Peat or Peat (S3) (LRR K, L, R) S cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L)			pletion, RM	=Reduced Matrix, MS=Masked Sand Grains.		
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144B) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Hydric Soil Present? Yes No	•			Debasely Below Ourfees (CO) (LDD D		· · · · · · · · · · · · · · · · · · ·
Black Histic (A3)						
Hydrogen Sulfide (A4)				,		, , ,
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic None observed Depth (inches): Mone observed None observed						
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Bridicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No						
Thick Dark Surface (A12)			ce (A11)			
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes No			,			
Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Othe	Sandy	Mucky Mineral (S1)		Depleted Dark Surface (F7)	Piedmont	t Floodplain Soils (F19) (MLRA 149B)
Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes No				Redox Depressions (F8)		
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Bindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes No						
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes _ ✓ No						
Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No	Dark S	urface (S7) (LRR R,	MLRA 149	В)	Other (Ex	κplain in Remarks)
Restrictive Layer (if observed): Type: None observed Depth (inches): Hydric Soil Present? Yes ✓ No	3Indicators	of hydrophytic vogot	ation and w	otland hydrology must be present, unless disturbed	or problematic	
Type: None observed Depth (inches):				etiana nyarology must be present, unless disturbed to	or problematic.	
Depth (inches): No).			
						10 Y / N
Remarks: Soil is dark in chroma, and is satuated					Hydric Soil Pr	esent? Yes No
	Remarks: S	oil is dark in chron	na, and is	satuated		

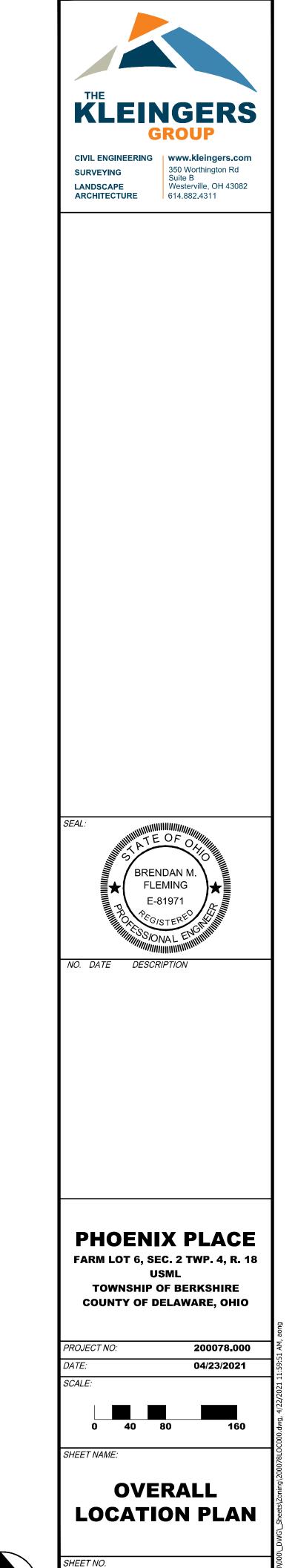
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. no trees present in wetland area				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: (B)
4				(/,
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
5				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1				FAC species x 3 =
2. no shrubs in wetland				FACU species x 4 =
3				UPL species x 5 =
4.				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov		✓ 2 - Dominance Test is >50%
5'		= Total Cov	ver	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5' Scirpus atrovirens (bulrush)	5%	no	OBL	4 - Morphological Adaptations ¹ (Provide supporting
2. Phalaris arundinacea (reed canary grass)	90%	yes	FACW	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
				Troblematic Hydrophytic Vegetation (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5	·			Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
· · ·	95%	= Total Cov	/er	height.
Woody Vine Stratum (Plot size:)		10101 001		
None.				
2				
3		-	-	Hydrophytic Vegetation
4				Present? Yes _ ✓ No
	0	= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Wetland is nearly 100% reed canary grass, with mine	or bulrush			
3 0				

Profile Des	cription: (Describe Matrix	to the de	oth needed to document the indicator or confirm Redox Features	the absence of indicators.)
(inches)	Color (moist)	%	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-20"	10YR4/2	100		silty/loan
				·
		pletion, RM	=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:			Indicators for Problematic Hydric Soils ³ :
Histoso			Polyvalue Below Surface (S8) (LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
	listic (A3)		Thin Dark Surface (S9) (LRR R, MLRA 149B)	
	en Sulfide (A4) d Layers (A5)		Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2)	Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	ce (A11)	✓ Depleted Matrix (F3)	Thin Dark Surface (S9) (LRR K, L)
	ark Surface (A12)	,	Redox Dark Surface (F6)	Iron-Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark Surface (F7)	Piedmont Floodplain Soils (F19) (MLRA 149E
Sandy (Gleyed Matrix (S4)		Redox Depressions (F8)	Mesic Spodic (TA6) (MLRA 144A, 145, 149B
	Redox (S5)			Red Parent Material (F21)
	d Matrix (S6)		_,	Very Shallow Dark Surface (TF12)
Dark Su	urface (S7) (LRR R ,	MLRA 149	В)	Other (Explain in Remarks)
3Indicators of	of hydrophytic vegets	ation and w	etland hydrology must be present, unless disturbed o	or problematic
	Layer (if observed)		etiana nyarology mast be present, amess distarbed t	
	one observed	, -		
Depth (inches):				Hydric Soil Present? Yes _ ✓ No
Remarks: So	oil is dark in chron	na, and is	satuated	

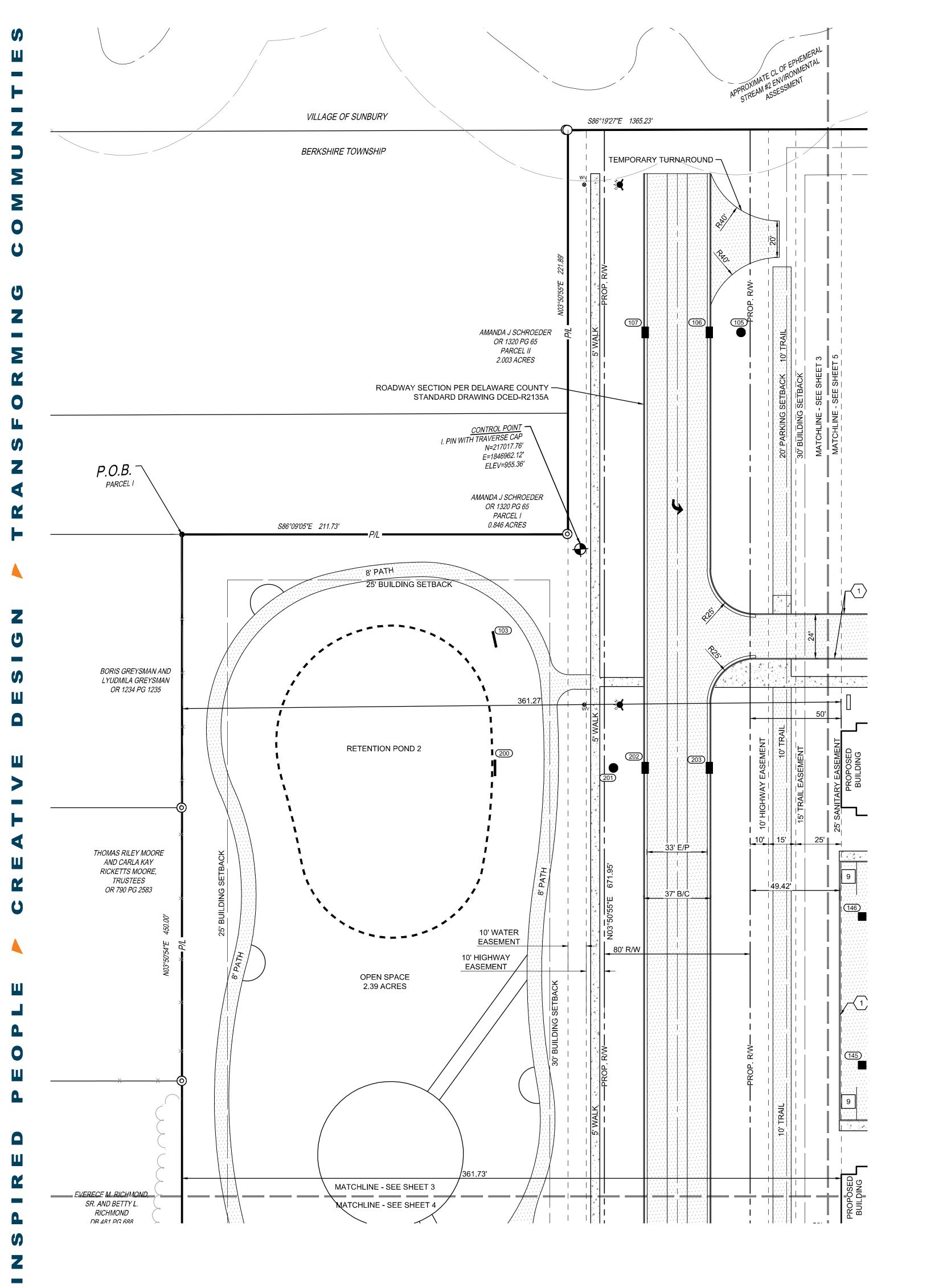
16.06.C.11. - Layout of proposed streets, private or public, including their names and rights of way, easements, sewers, water lines, culverts and other major improvements.

- a. Please See Sheets 2-8 of The Printed Engineering Plan (Kleingers) Location Plan
- b. Please See Sheets 9-16 of Printed Engineering Set (Kleingers)- Grading and Utilities that shows the remaining utility connections









CATCH BASIN

HEADWALL

MANHOLE

CURB INLET

SANITARY MANHOLE WATER VALVE

FIRE HYDRANT

ASPHALT PAVEMENT CONCRETE WALK HEAVY DUTY CONCRETE PAVEMENT

PROPOSED PARKING COUNT

- - - PROPOSED POND

CODED NOTES

NOTES

1. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.

3. ALL STANDARD PARKING SPACES ARE 9'W x 20'L

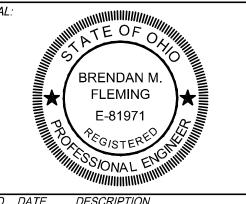
SITE RADII ARE DESIGNED TO ACCOMMODATE EMERGENCY AND FIRE-FIGHTING APPARATUS.

6. ALL EDGES OF PAVEMENT SHALL HAVE 6" FULL HEIGHT CURB.

4. ALL ADA SPACES ARE 8'W x 20'L.

1 6" FULL HEIGHT CURB





NO. DATE DESCRIPTION

FARM LOT 6, SEC. 2 TWP. 4, R. 18

TOWNSHIP OF BERKSHIRE COUNTY OF DELAWARE, OHIO

PHOENIX PLACE

PROJECT NO: 200078.000 ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURB UNLESS OTHERWISE NOTED.

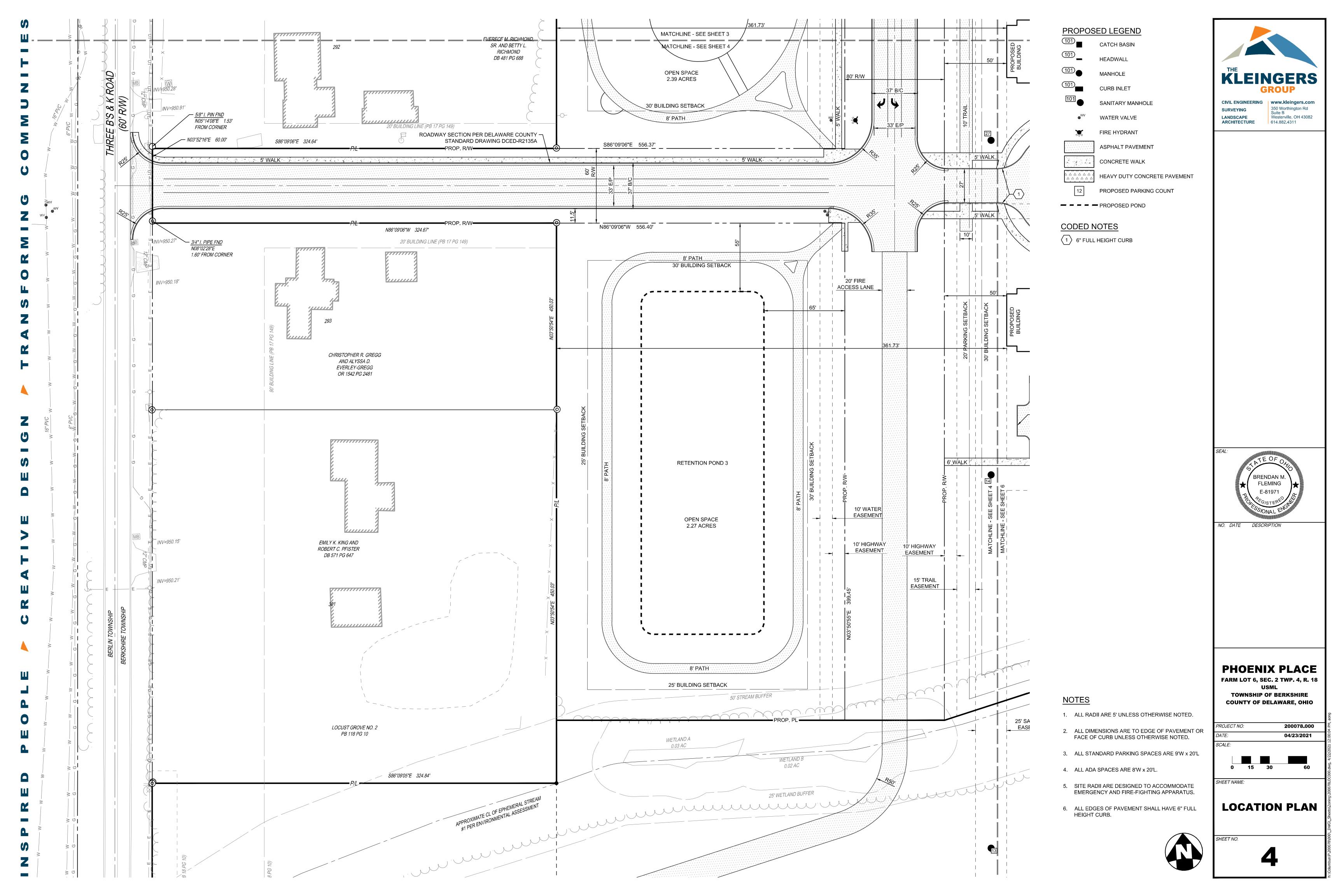
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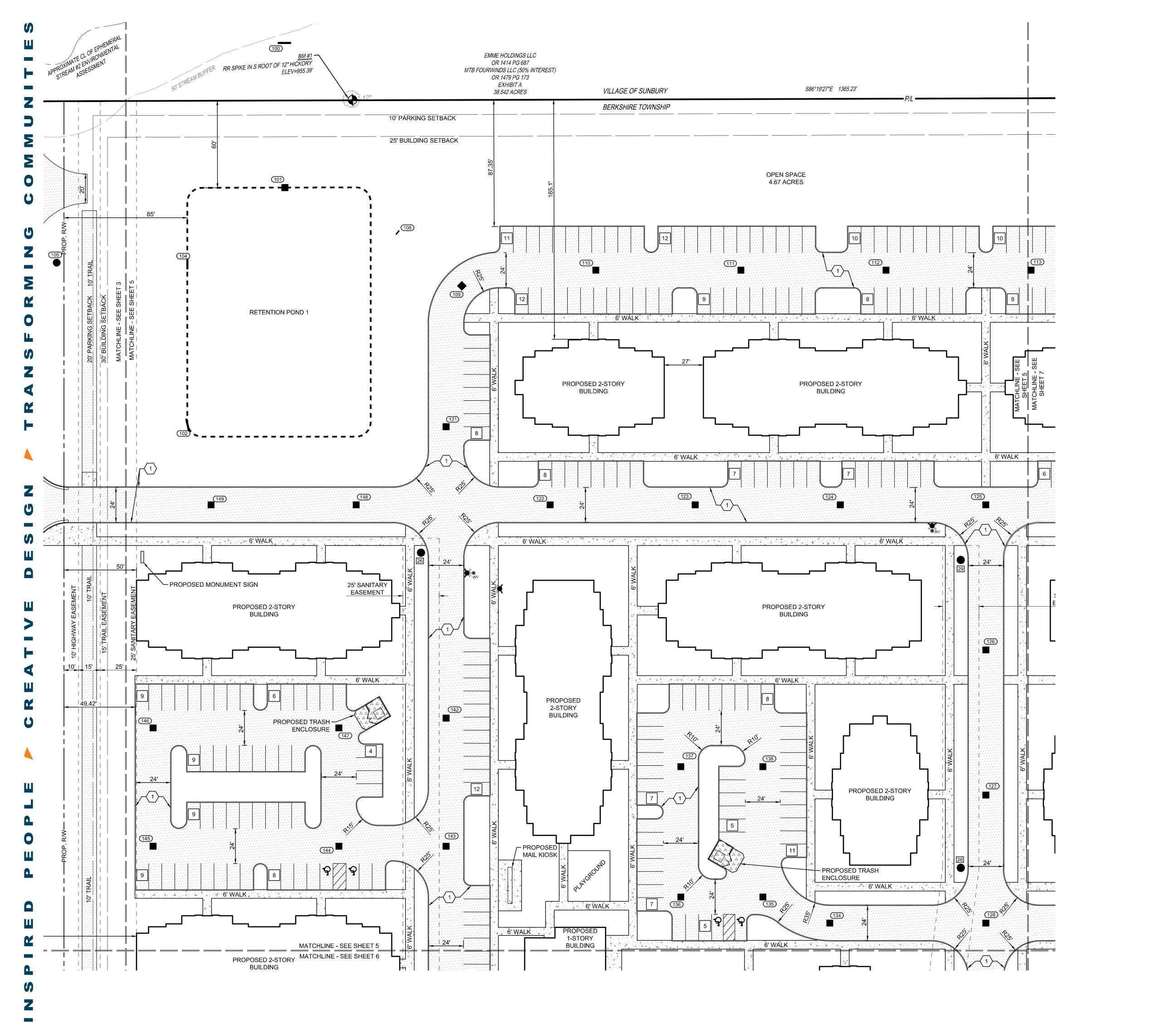
04/23/2021

SHEET NAME:

LOCATION PLAN







CATCH BASIN

■ CA 101)

HEADWALL

MANHOLE

CURB INLET

SANITARY MANHOLE

WATER VALVE

FIRE HYDRANT

ASPHALT PAVEMENT

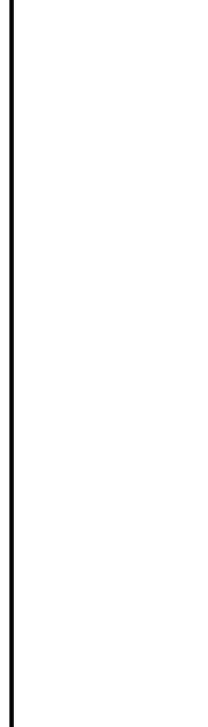
CONCRETE WALK

HEAVY DUTY CONCRETE PAVEMENT

12 PROPOSED PARKING COUNT

CODED NOTES

1 6" FULL HEIGHT CURB



KLEINGERS

CIVIL ENGINEERING www.kleingers.com

ARCHITECTURE 614.882.4311

SURVEYING

LANDSCAPE

350 Worthington Rd Suite B Westerville, OH 43082

NO. DATE DESCRIPTION

BRENDAN M. FLEMING

PHOENIX PLACE FARM LOT 6, SEC. 2 TWP. 4, R. 18

TOWNSHIP OF BERKSHIRE COUNTY OF DELAWARE, OHIO

 PROJECT NO:
 200078.000

 DATE:
 04/23/2021

0 15 30

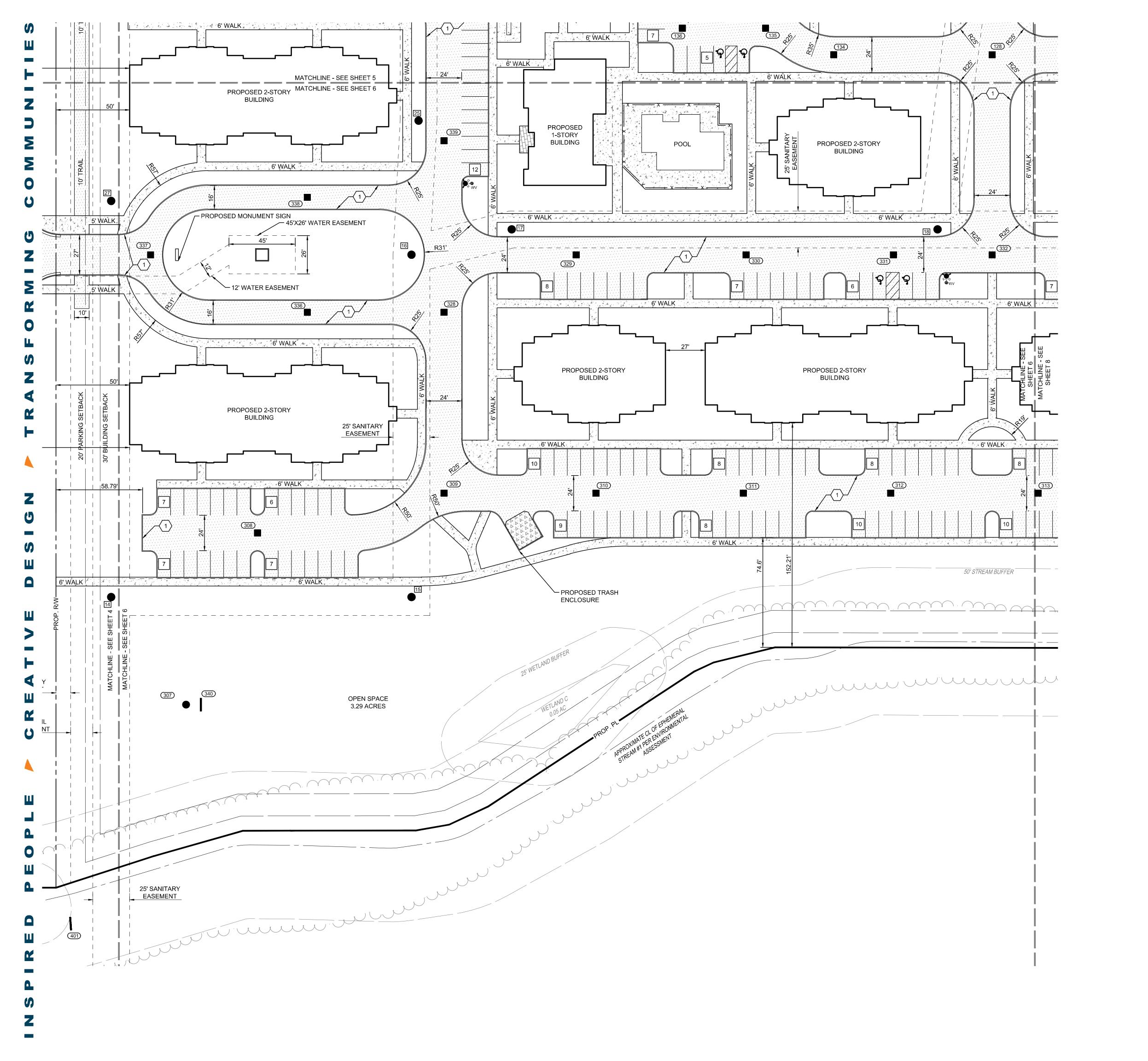
SHEET NAME:

LOCATION PLAN

5

<u>NOTES</u>

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- 4. ALL ADA SPACES ARE 8'W x 20'L.
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CATCH BASIN

101) HEADWALL

(101) MANHOLE

CURB INLET

SANITARY MANHOLE

WATER VALVE

FIRE HYDRANT

ASPHALT PAVEMENT
CONCRETE WALK

HEAVY DUTY CONCRETE PAVEMENT

12 PROPOSED PARKING COUNT

— — — PROPOSED POND

CODED NOTES

(1) 6" FULL HEIGHT CURB





<u>NOTES</u>

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PHOENIX PLACE FARM LOT 6, SEC. 2 TWP. 4, R. 18

TOWNSHIP OF BERKSHIRE COUNTY OF DELAWARE, OHIO

 PROJECT NO:
 200078,000

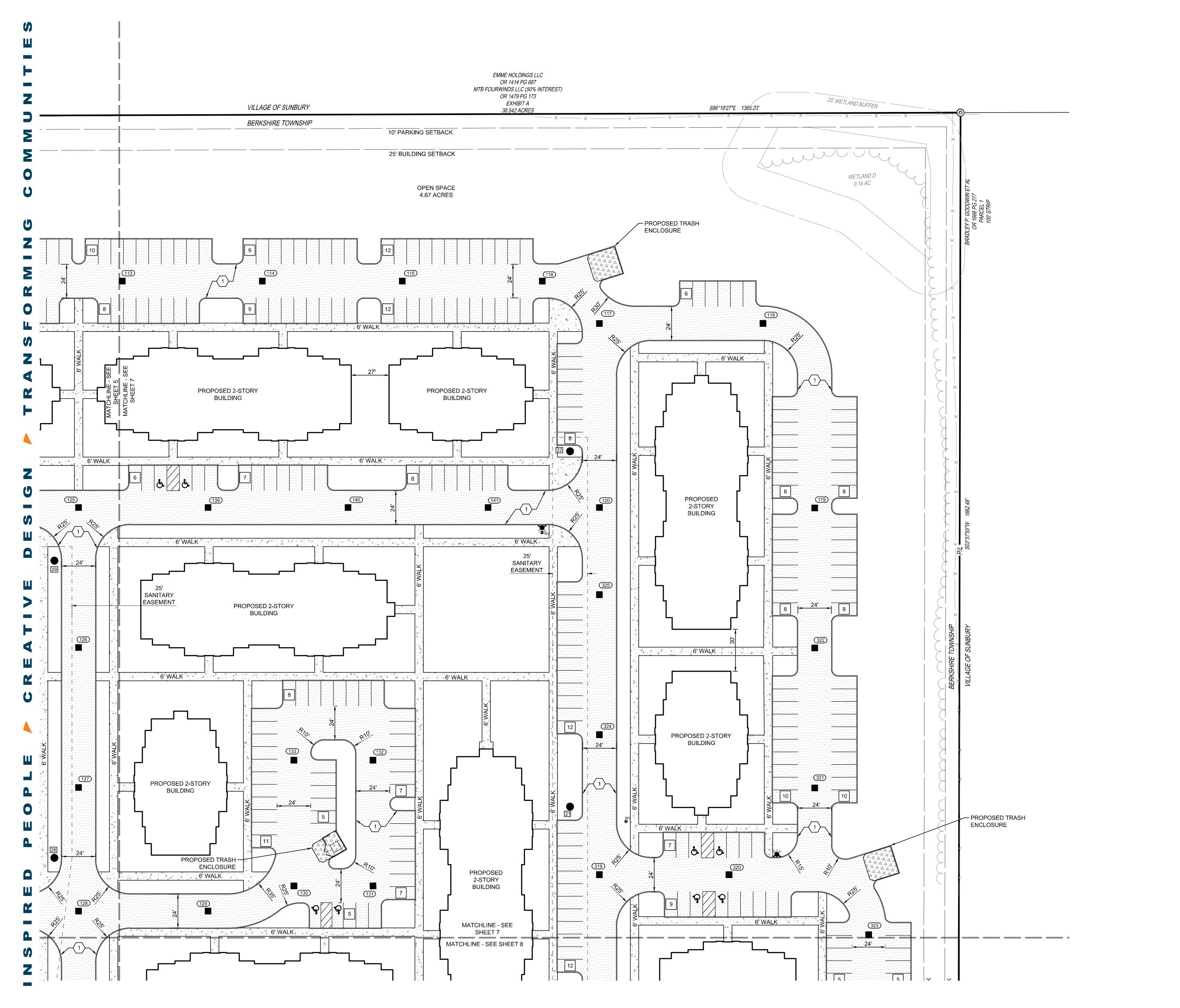
 DATE:
 04/23/2021

0 15 30 60

SHEET NAME:

LOCATION PLAN





CATCH BASIN

HEADWALL

MANHOLE

CURB INLET SANITARY MANHOLE

WATER VALVE

FIRE HYDRANT

ASPHALT PAVEMENT CONCRETE WALK

HEAVY DUTY CONCRETE PAVEMENT

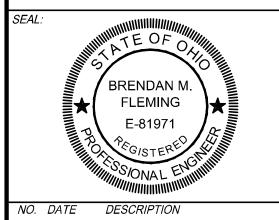
PROPOSED PARKING COUNT

- - - - PROPOSED POND

CODED NOTES

1 6" FULL HEIGHT CURB





NOTES

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- 6. ALL EDGES OF PAVEMENT SHALL HAVE 6" FULL HEIGHT CURB.



PHOENIX PLACE FARM LOT 6, SEC. 2 TWP. 4, R. 18

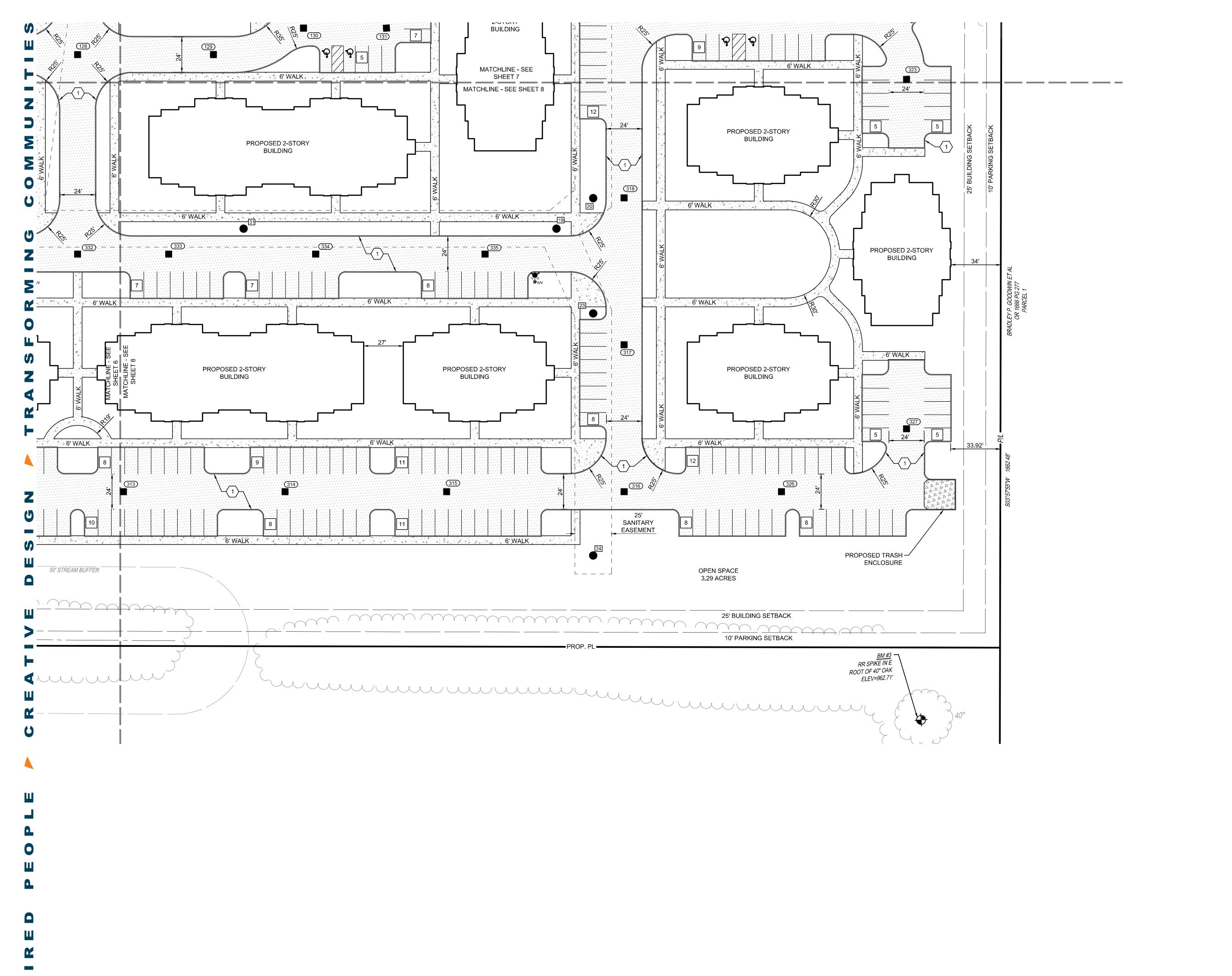
TOWNSHIP OF BERKSHIRE **COUNTY OF DELAWARE, OHIO**

PROJECT NO: 200078.000 04/23/2021

0 15 30

SHEET NAME:

LOCATION PLAN



(101) CATCH BASIN

(101)

HEADWALL

MANHOLE

CURB INLET

SANITARY MANHOLE

⊗^{WV} WATER VALVE

FIRE HYDRANT

ASPHALT PAVEMENT

AAAAAA HEAVY DUTY CONCRETE PAVEMENT

CONCRETE WALK

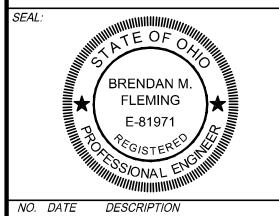
12 PROPOSED PARKING COUNT

- - - PROPOSED POND

CODED NOTES

1 6" FULL HEIGHT CURB





<u>NOTES</u>

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PHOENIX PLACE FARM LOT 6, SEC. 2 TWP. 4, R. 18

TOWNSHIP OF BERKSHIRE
COUNTY OF DELAWARE, OHIO

 PROJECT NO:
 200078,000

 DATE:
 04/23/2021

 SCALE:

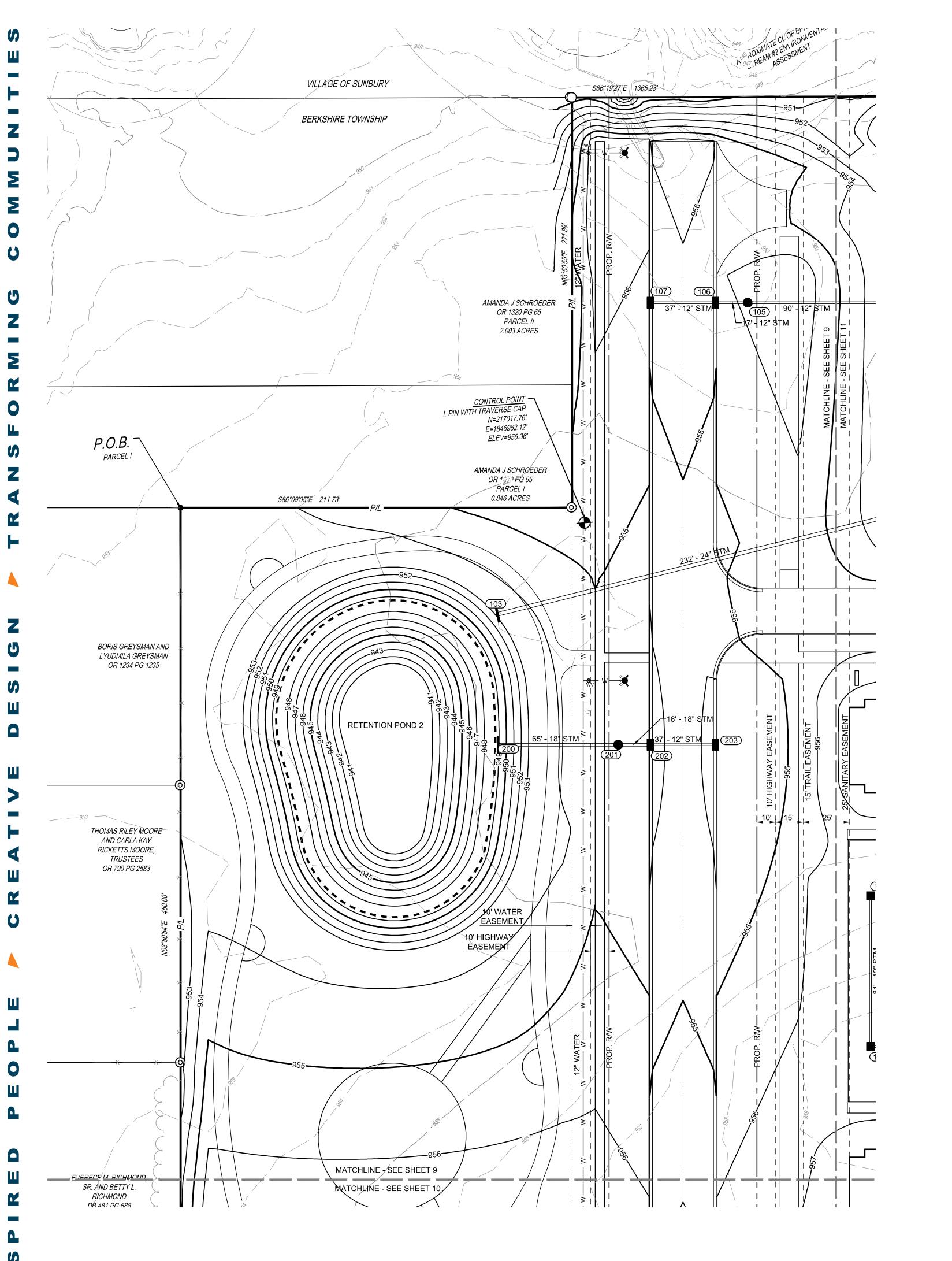
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SHEET NAME:

LOCATION PLAN

SHEET NO.

8



STM STORM SEWER PIPE

—— SANITARY SEWER PIPE

— W— WATER PIPE

101 ■ CATCH BASIN

101) HEADWALL

101) MANHOLE

101) CURB INLET

SANITARY MANHOLE

WATER VALVE

FIRE HYDRANT

—— 950 —— EXISTING MAJOR CONTOUR
—— -949 — —— EXISTING MINOR CONTOUR

——950 —— PROPOSED MAJOR CONTOUR

—— 949 —— PROPOSED MINOR CONTOUR

— — — PROPOSED POND





NO. DATE DESCRIPTION

PHOENIX PLACE

FARM LOT 6, SEC. 2 TWP. 4, R. 18
USML
TOWNSHIP OF BERKSHIRE
COUNTY OF DELAWARE, OHIO

PROJECT NO: 200078.000

ALE:

04/23/2021

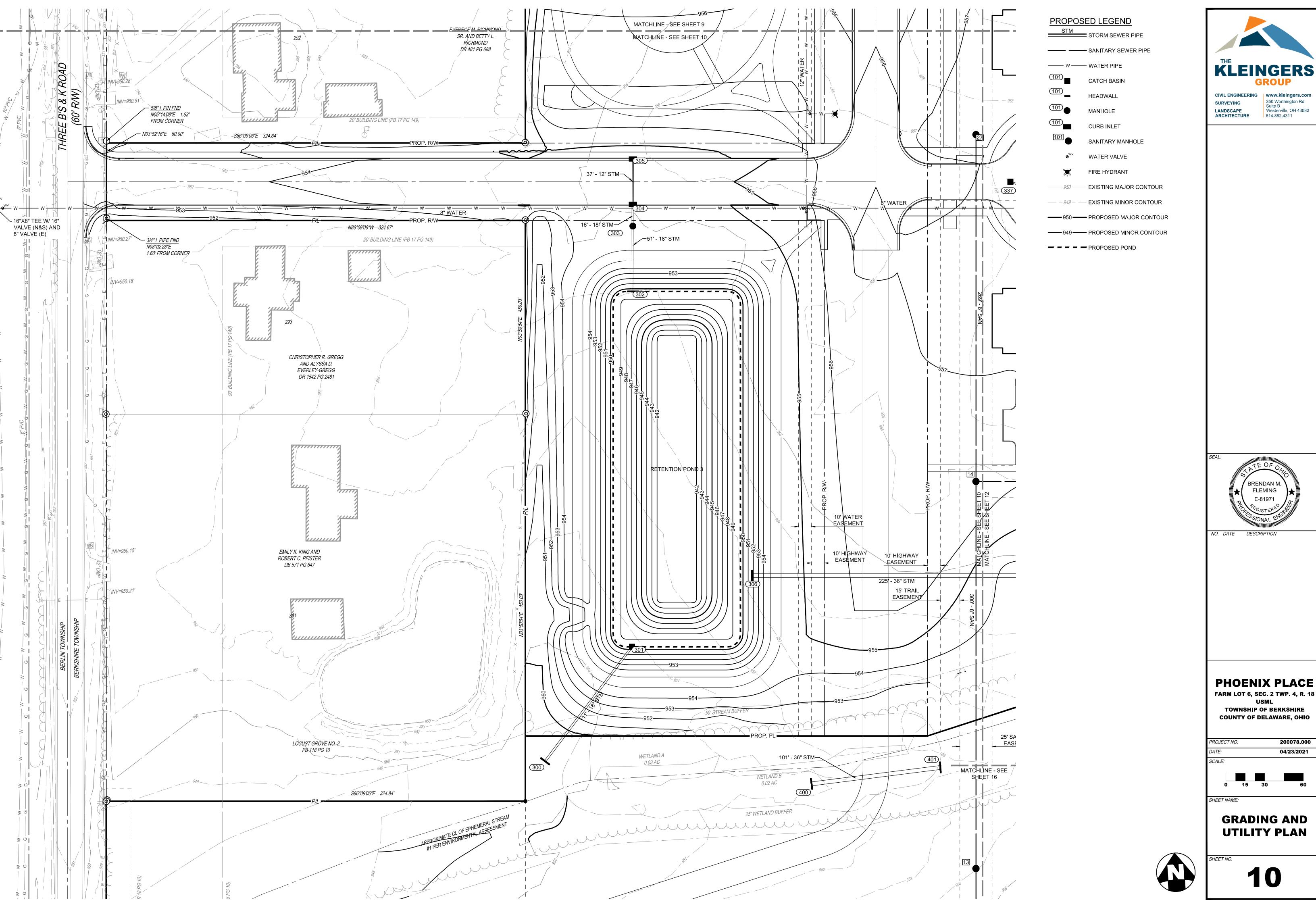
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SHEET NAI

GRADING AND UTILITY PLAN



9







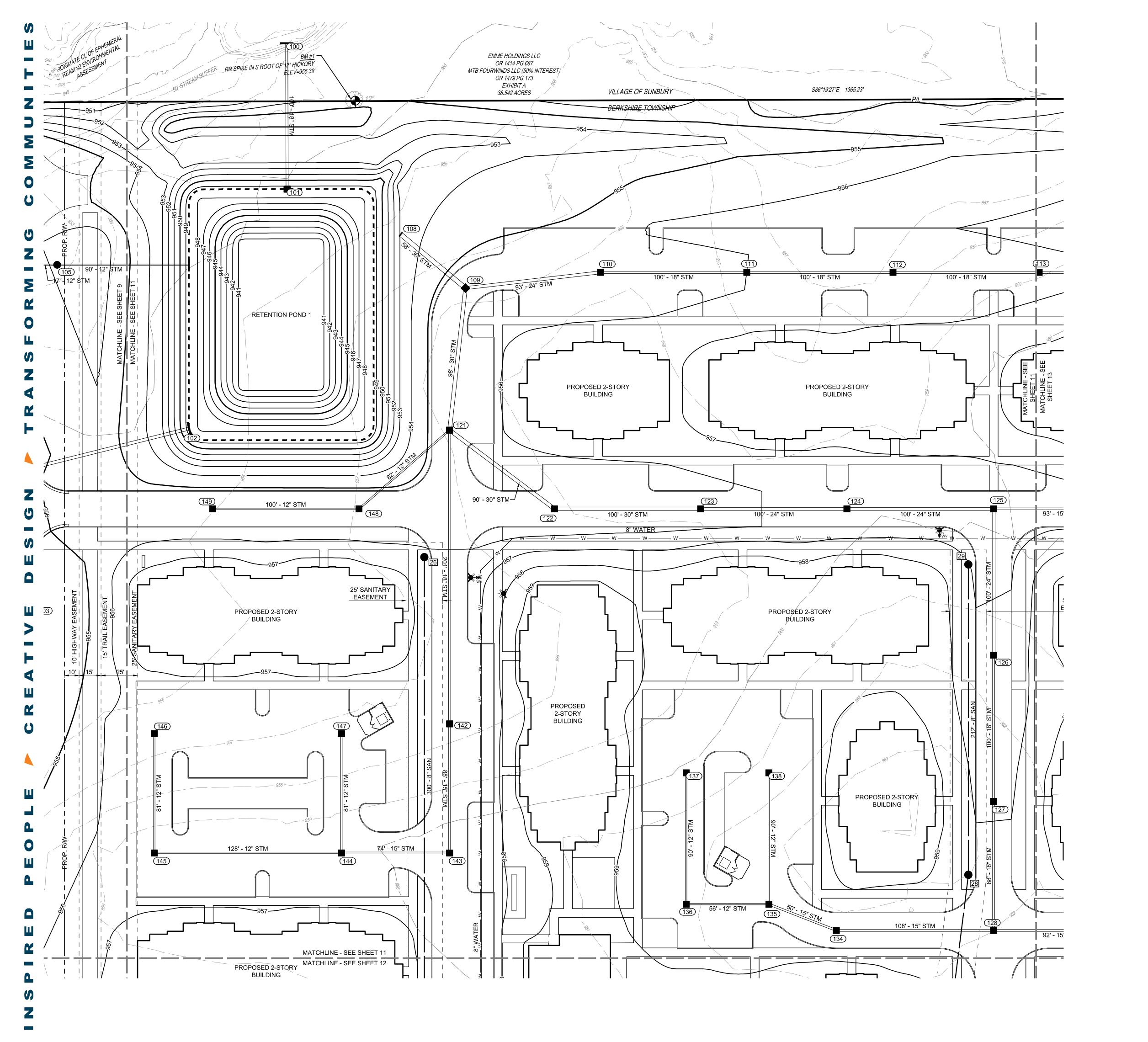
PHOENIX PLACE

TOWNSHIP OF BERKSHIRE COUNTY OF DELAWARE, OHIO

200078.000 04/23/2021

GRADING AND UTILITY PLAN





STM STORM SEWER PIPE

——— SANITARY SEWER PIPE

----- W----- WATER PIPE

(101) CATCH BASIN

HEADWALL

MANHOLE

101) CURB INLET

⊗^{WV} WATER VALVE

——950 —— EXISTING MAJOR CONTOUR

FIRE HYDRANT

SANITARY MANHOLE

— -949 - — EXISTING MINOR CONTOUR

-----949------ PROPOSED MINOR CONTOUR

——950 —— PROPOSED MAJOR CONTOUR

— — — PROPOSED POND





NO. DATE DESCRIPTION

PHOENIX PLACE

FARM LOT 6, SEC. 2 TWP. 4, R. 18
USML
TOWNSHIP OF BERKSHIRE
COUNTY OF DELAWARE, OHIO

PROJECT NO: 200078.000

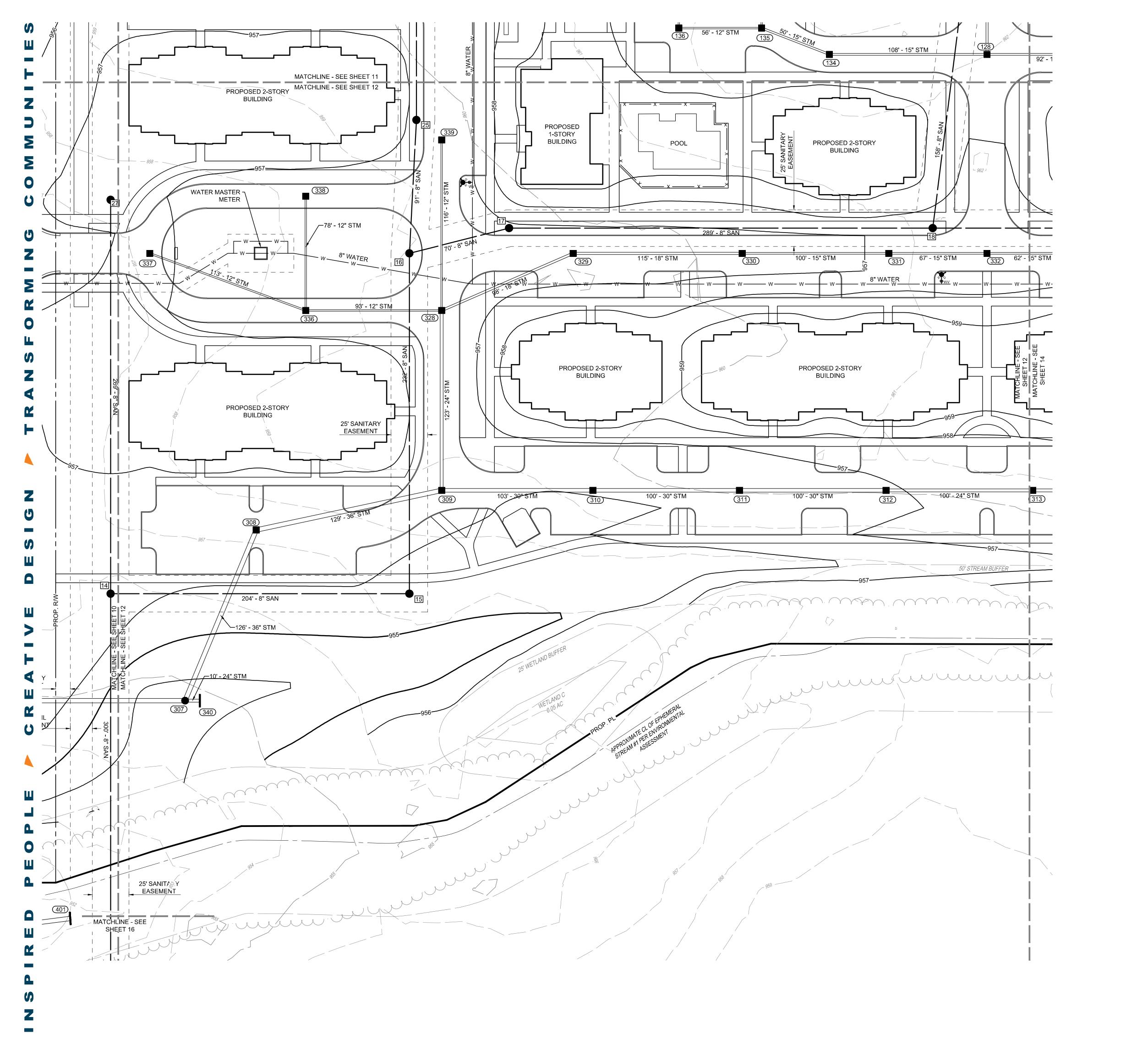
TE: **04/23/2021**ALE:

0 15 30 60

GRADING AND UTILITY PLAN

SHEET NO.





STM STORM SEWER PIPE

——— SANITARY SEWER PIPE

— w— WATER PIPE

101

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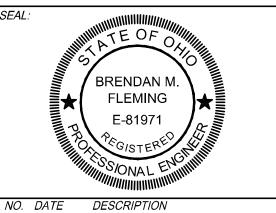
— -949 - — EXISTING MINOR CONTOUR

——950 —— PROPOSED MAJOR CONTOUR

-----949 ------ PROPOSED MINOR CONTOUR

- - - PROPOSED POND





PHOENIX PLACE

FARM LOT 6, SEC. 2 TWP. 4, R. 18 USML TOWNSHIP OF BERKSHIRE

COUNTY OF DELAWARE, OHIO

PROJECT NO: 200078.000

DATE: 04/23/2021

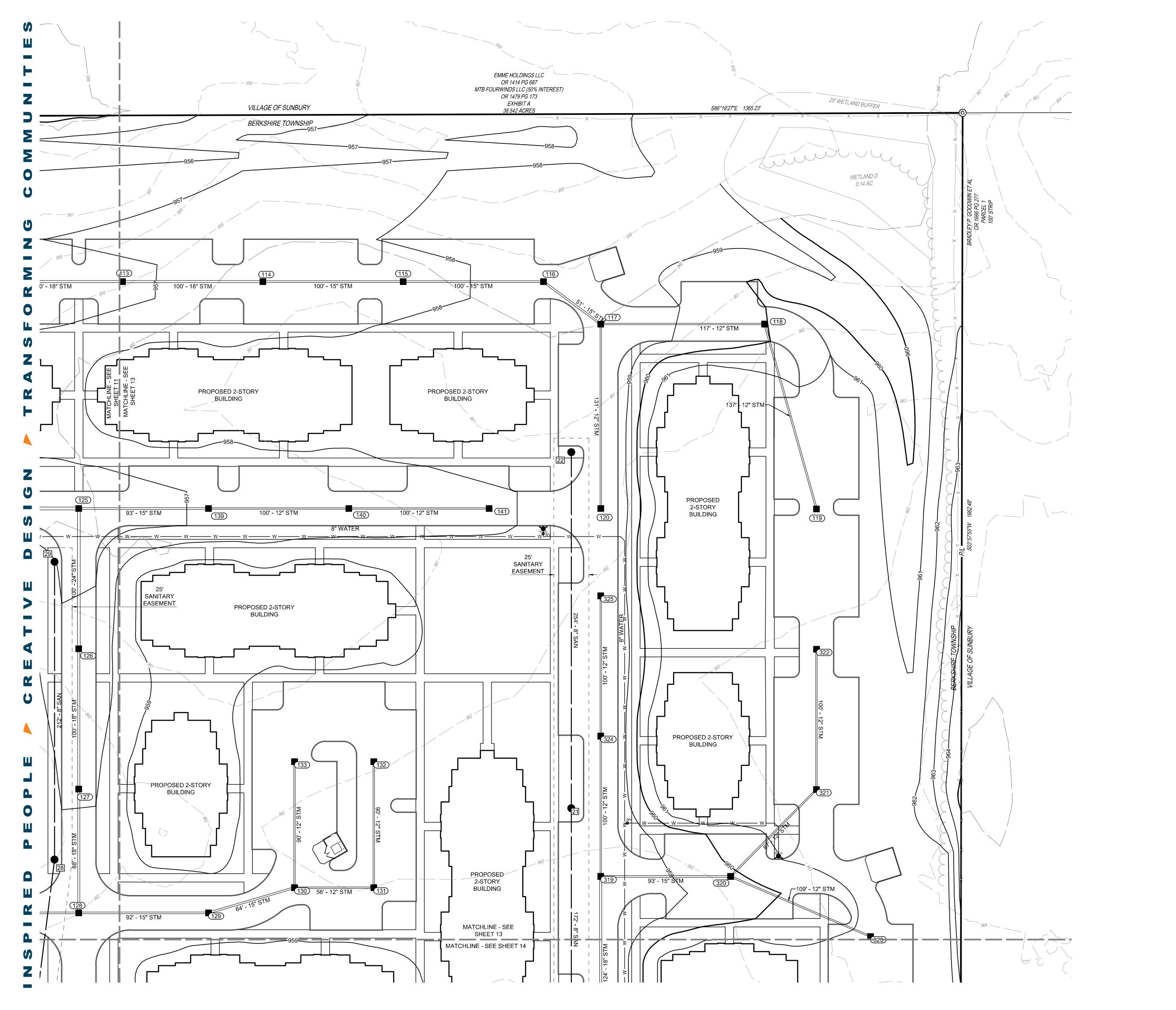
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SHEET NAME:

GRADING AND UTILITY PLAN



12





STM STORM SEWER PIPE

—— SANITARY SEWER PIPE

OANTAIN OEWER

— W— WATER PIPE

101 ■ CATCH BASIN

HEADWALL

MANHOLE

CURB INLET

SANITARY MANHOLE

⊗^{WV} WATER VALVE

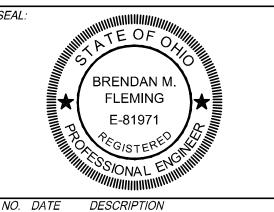
——950 —— EXISTING MAJOR CONTOUR

FIRE HYDRANT

-----949 ------ PROPOSED MINOR CONTOUR

— — — PROPOSED POND





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FARM LOT 6, SEC. 2 TWP. 4, R. 18
USML
TOWNSHIP OF BERKSHIRE
COUNTY OF DELAWARE, OHIO

PROJECT NO: 200078.000

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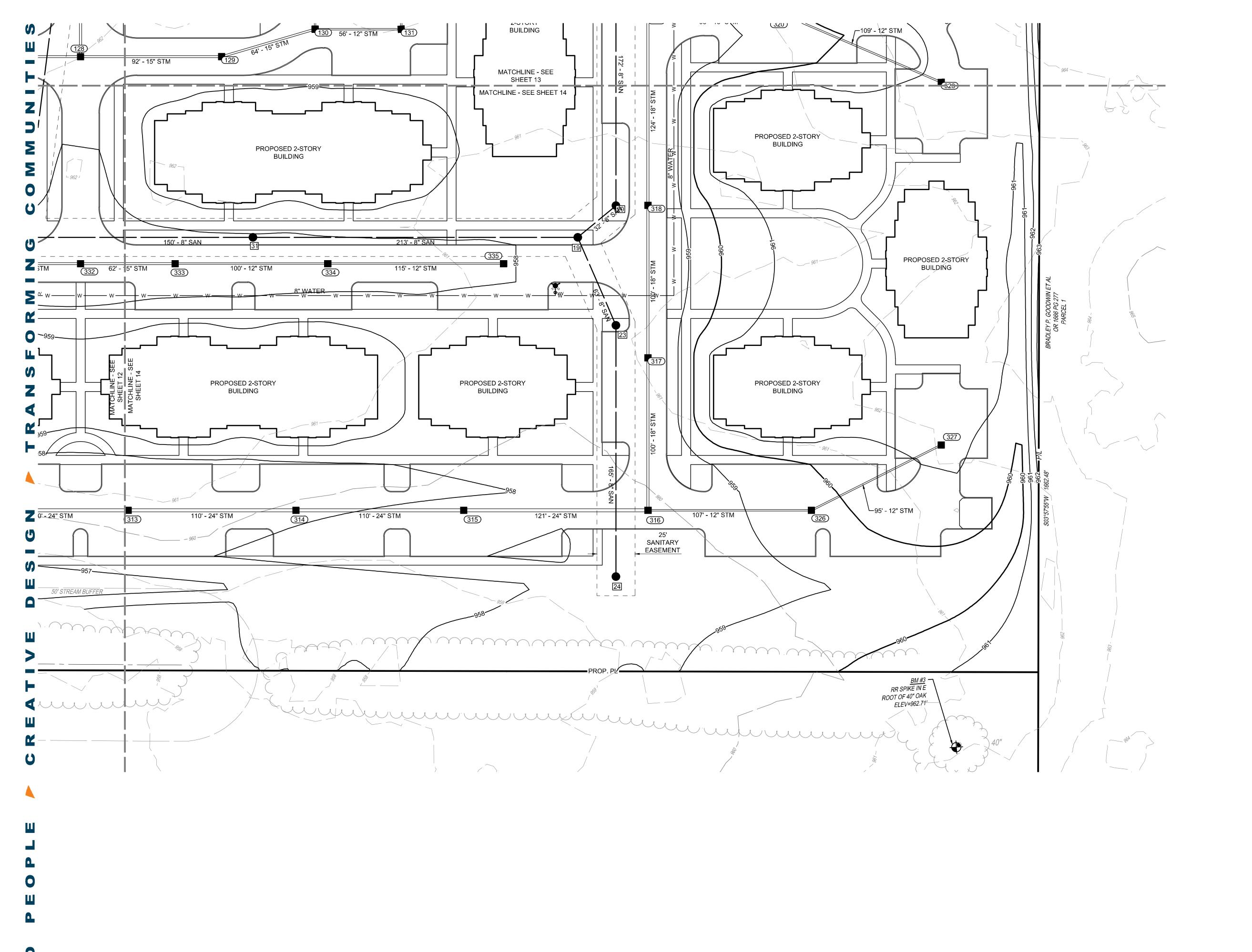
0 15 30 60

SHEET NAME:

GRADING AND UTILITY PLAN



13



STM STORM SEWER PIPE

——— SANITARY SEWER PIPE

—— w—— WATER PIPE

101) CATCH BASIN

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MANHOLE

CURB INLET

SANITARY MANHOLE

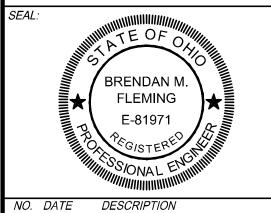
WATER VALVE

— - 949 - — EXISTING MINOR CONTOUR

——950 —— PROPOSED MAJOR CONTOUR
——949 —— PROPOSED MINOR CONTOUR

— — — PROPOSED POND





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USML
TOWNSHIP OF BERKSHIRE
COUNTY OF DELAWARE, OHIO

COUNTY OF DELAWARE, OHIO

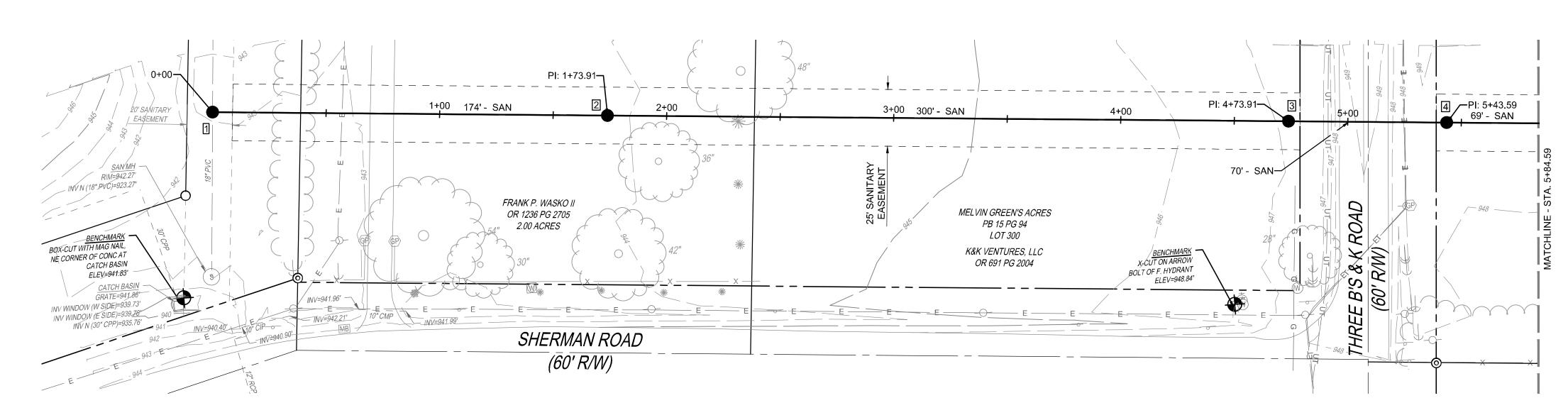
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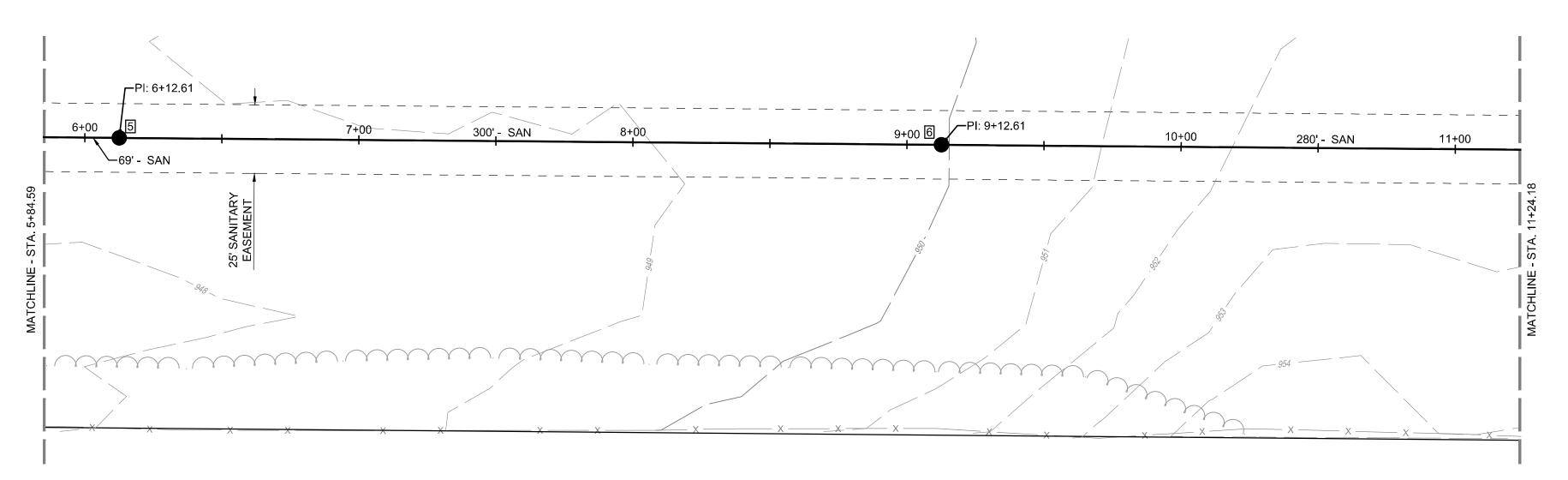
SHEET NAME

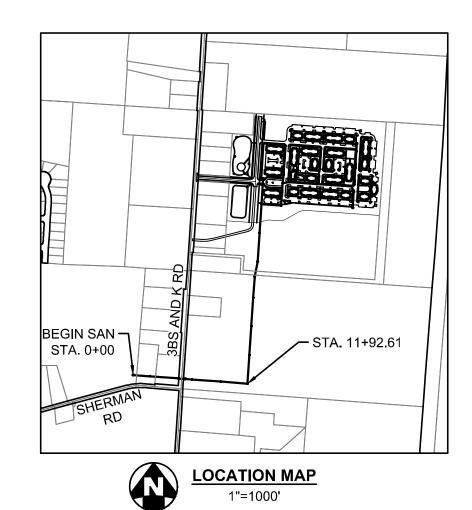
GRADING AND UTILITY PLAN



14









STM STORM SEWER PIPE

SANITARY SEWER PIPE

HEADWALL

——— w——— WATER PIPE

CATCH BASIN

MANHOLE

SANITARY MANHOLE

WATER VALVE

FIRE HYDRANT

950 EXISTING MAJOR CONTOUR

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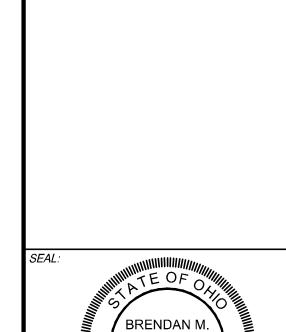
——949 —— PROPOSED MINOR CONTOUR

- - - PROPOSED POND

— — — — GRADING LIMITS

SWALE ARROW

FLOOD ROUTE



FLEMING

KLEINGERS

CIVIL ENGINEERING | www.kleingers.com

LANDSCAPE Westerville, OH 4
ARCHITECTURE 614.882.4311

SURVEYING

350 Worthington Rd Suite B Westerville, OH 43082

NO. DATE DESCRIPTION

PHOENIX PLACE

FARM LOT 6, SEC. 2 TWP. 4, R. 18 TOWNSHIP OF BERKSHIRE

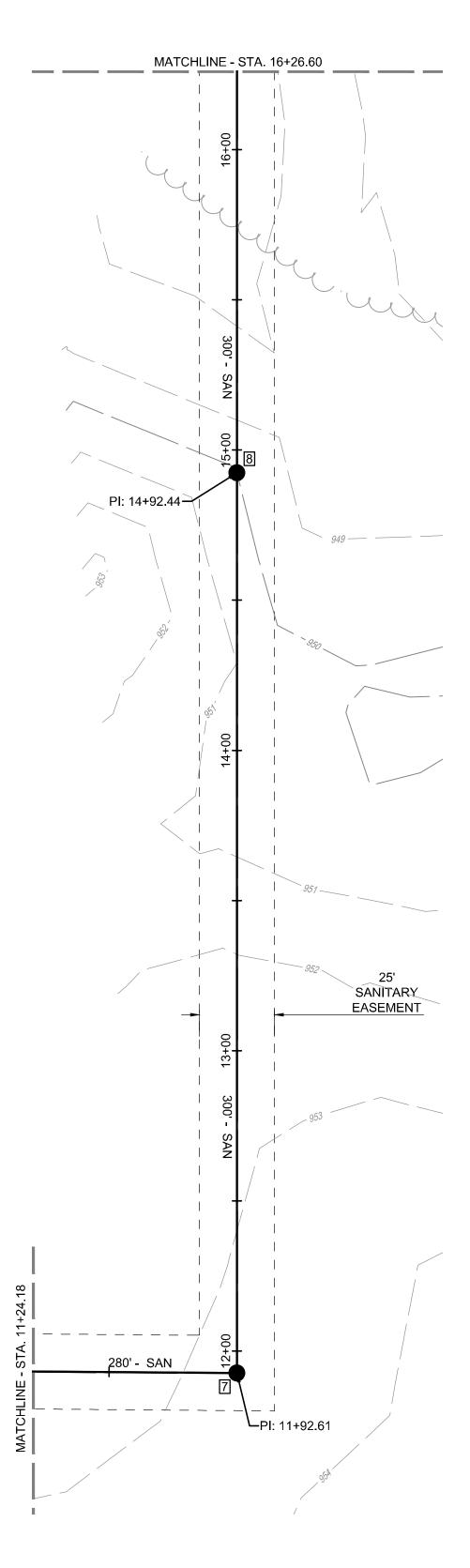
COUNTY OF DELAWARE, OHIO

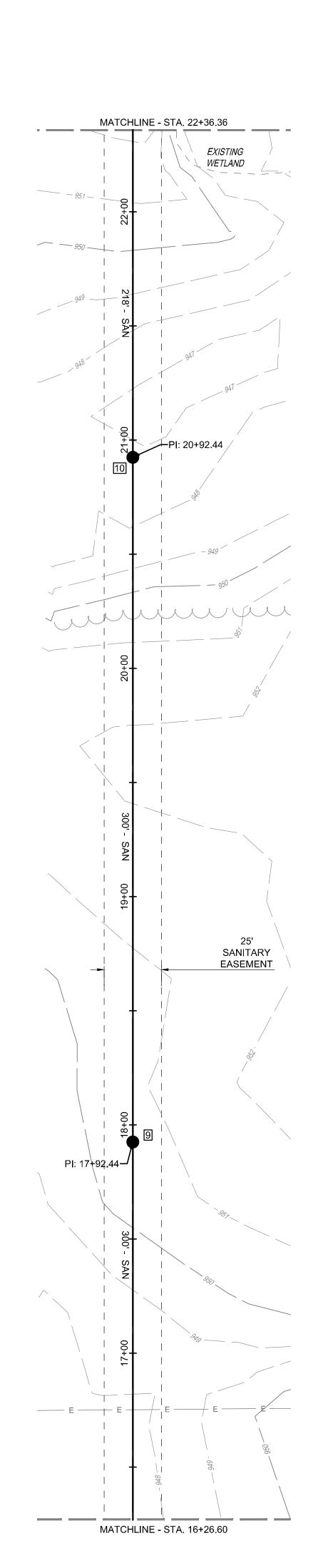
PROJECT NO: 200078.000 04/23/2021

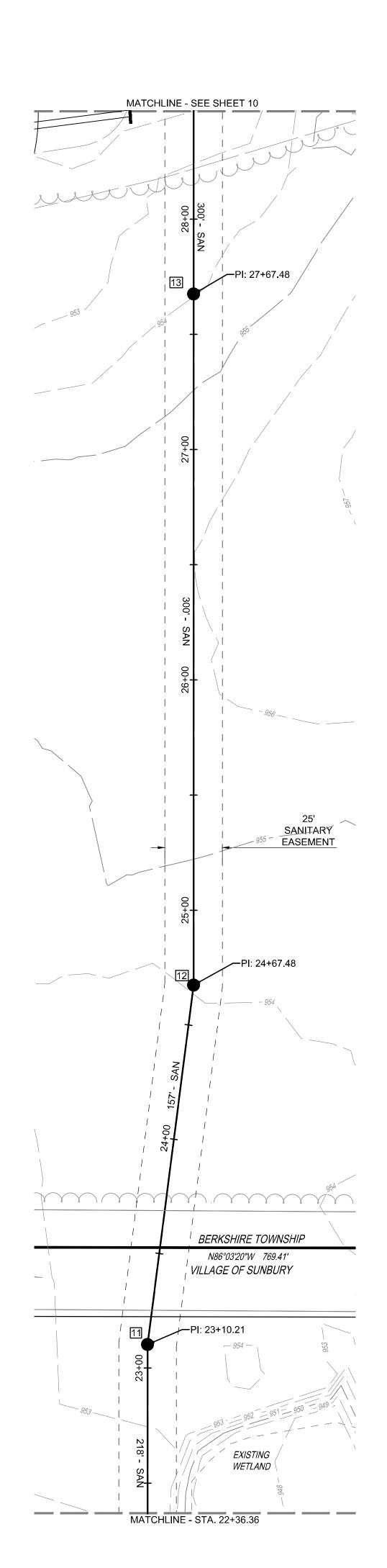


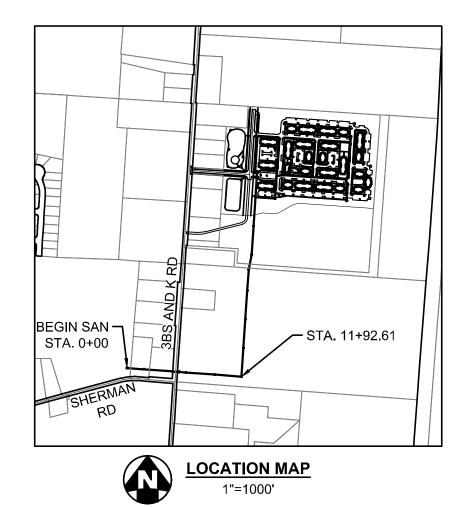
SANITARY EXTENSION STA. 0+00 TO 11+24.18











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----- SANITARY SEWER PIPE

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----- w ----- WATER PIPE

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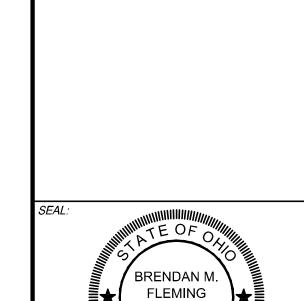
—— 950 —— PROPOSED MAJOR CONTOUR

——949 —— PROPOSED MINOR CONTOUR

FLOOD ROUTE

— — — — GRADING LIMITS

SWALE ARROW



NO. DATE DESCRIPTION

KLEINGERS

CIVIL ENGINEERING www.kleingers.com

LANDSCAPE Westerville, OH 4
ARCHITECTURE 614.882.4311

SURVEYING

350 Worthington Rd Suite B Westerville, OH 43082

PHOENIX PLACE

FARM LOT 6, SEC. 2 TWP. 4, R. 18
USML

TOWNSHIP OF BERKSHIRE COUNTY OF DELAWARE, OHIO

PROJECT NO: 200078.000

DATE: 04/23/2021

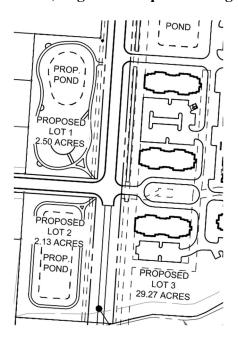
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SANITARY
SANITARY
EXTENSION STA.
11+24.18 TO
28+46.79

16



16.06.C.12. - Layout, numbering and dimensions of lots if more than one. The proposed development, Phoenix Place, is a total of 33.90-acres. The site is divided into three "lots". Proposed Lot 1, 2.5-acres, and Proposed Lot 2, 2.13-acres, are located to the west of the proposed north-south right-of-way and includes stormwater ponds and walking paths. The proposed north-south right-of-way is 2.84-acres. Proposed Lot 3, 29.27-acres, is located to the east of the proposed north-south right-of-way and includes proposed buildings, parking, green space and a storm water basin. The net acreage is 28.82-acres. This can be found on the **Title Sheet, Page 1 of the printed Engineering Set (Kleingers).**



ZONING DISTRICT: PLANNED MIXED USE DISTRICT (PMUD)
QUADRANT: SOUTHWEST

PID: 41723001023000 41723001026000 41723001027000

	PID: 41723001023000, 41723001026000, 41723001027000					
	EXISTING USE: AGRICULTURAL					
	PROPOSED USE: MULTI-FAMILY RESIDENTIAL					
CODE SECTION	STANDARD	REQUIREMENT	PROPOSED			
16.08 A	MINIMUM SITE ACREAGE	3	36.74			
-	NET ACREAGE	SITE ACREAGE -R/W - WETLAND AREA = 36.74 - 2.84 - 0.19 = 33.71	33.71			
-	BUILDING AREA (ACRE)	N/S	4.48			
16.08 C.1	MAXIMUM NUMBER OF UNITS	300	296			
16.08 C.1	DENSITY (UNITS / ACRE)	8 MIN, 12 MAX	8.78			
16.08 D.1	STREET FRONTAGE (FT)	55	1131			
16.08 D.2	BUILDING SIDE YARD SETBACK (FT)	25	165.10 (N),152.21 (S)			
16.08 D.3	BUILDING REAR YARD SETBACK (FT)	25	34			
16.08 D.4	BUILDING RIGHT-OF-WAY SETBACK (FT)	30	50			
16.08 E.1	MAXIMUM LOT COVERAGE	80%	47.14%			
16.08 E.2	MAXIMUM BUILDING HEIGHT	2 STORIES	2 STORIES			
16.08 J.1	MINIMUM PARKING SIZE (FT)	9 X 18	9 X 18			
16.08 J.2	PARKING RIGHT-OF-WAY SETBACK (FT)	20	49.42			
16.08 J.2	PARKING SIDE YARD SETBACK (FT)	10	87.35 (N), 74.60 (S)			
16.08 J.2	PARKING REAR YARD SETBACK (FT)	10	33.92			
16.08 J.3	MINIMUM PARKING LOT ISLAND	162 SF, 9' WIDTH	162 SF, 9' WIDTH			
16.08 J.6	MINIMUM NUMBER OF PARKING SPACES	2.25 SPACE / DWELLING UNIT 2.25 X 296 = 666 SPACES	679 SPACES			
-	MINIMUM NUMBER OF ADA SPACES	2% OF TOTAL 675 * 0.02 = 14	14			
16.08 K	MINIMUM OPEN SPACE AREA	30%	44%			

N/S NO STANDARD NO VARIANCES REQUESTED

LOT COVERAGE CALCULATIONS

	BUILDING AREA (AC)	IMPERVIOUS SURFACE AREA (AC)	TOTAL AREA (AC)	LOT COVERAGE (ALL IMPERVIOUS SURFACE)
LOT 1	0	0.30	2.50	11.88%
LOT 2	0	0.18	2.13	8.60%
LOT 3	4.48	9.32	29.27	47.14%
RIGHT-OF-WAY	0	1.14	2.84	-
			36.74	

WETLAND TABLE

WETLAN	D ID	ACREAGE	DISTURBANCE (AC)
WETLAND A (C	OFFSITE)	0.03	0.00
WETLAND B (C	OFFSITE)	0.02	0.01
WETLAND C (ONSITE)	0.05	0.00
WETLAND D (ONSITE)	0.14	0.00

BENCHMARKS (NAVD 1988)

BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, OHIO NORTH ZONE (NAD83-2011), BASED ON A GPS SURVEY UTILIZING CORS STATION "COLB". THE PROJECT COORDINATES HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.0000023859 APPLIED AT BASE POINT N 216,500.00 E 1,847,000.00 . GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), BASED ON SOURCE BENCHMARK CORS STATION "COLB".

BENCHMARK #1: RAILROAD SPIKE IN SOUTH ROOT OF HICKORY TREE LOCATED NEAR THE NORTH PROPERTY LINE.

ELEVATION = 955.39

BENCHMARK #2: COTTON-GIN SPIKE ON THE WEST SIDE OF AN EXISTING UTILITY POLE

LOCATED ON THE EAST SIDE OF 3B'S AND K ROAD.

ELEVATION = 953.12

BENCHMARK #3: RAILROAD SPIKE IN EAST ROOT OF 40" OAK TREE LOCATED NEAR THE EASTERN PROPERTY LINE.

ELEVATION = 962.71

BENCHMARK #4: X-CUT ON EAST BOLT OF FIRE HYDRANT LOCATED ON THE WEST SIDE OF 3B'S AND K ROAD.

ELEVATION = 949.44

2 - OVERALL LOCATION PLAN

9 - GRADING AND UTILITY PLAN

10 - GRADING AND UTILITY PLAN

11 - GRADING AND UTILITY PLAN

12 - GRADING AND UTILITY PLAN

13 - GRADING AND UTILITY PLAN

14 - GRADING AND UTILITY PLAN

24 - LANDSCAPE NOTES & DETAILS 25 - FIRETRUCK TURNING PLAN

17 - LANDSCAPE KEY PLAN

18 - LANDSCAPE PLAN 19 - LANDSCAPE PLAN 20 - LANDSCAPE PLAN

21 - LANDSCAPE PLAN 22 - LANDSCAPE PLAN 23 - LANDSCAPE PLAN

15 - SANITARY EXTENSION STA. 0+00 TO 11+24.18

16 - SANITARY EXTENSION STA. 11+24.18 TO 28+46.79

3 - LOCATION PLAN

4 - LOCATION PLAN 5 - LOCATION PLAN

6 - LOCATION PLAN

7 - LOCATION PLAN

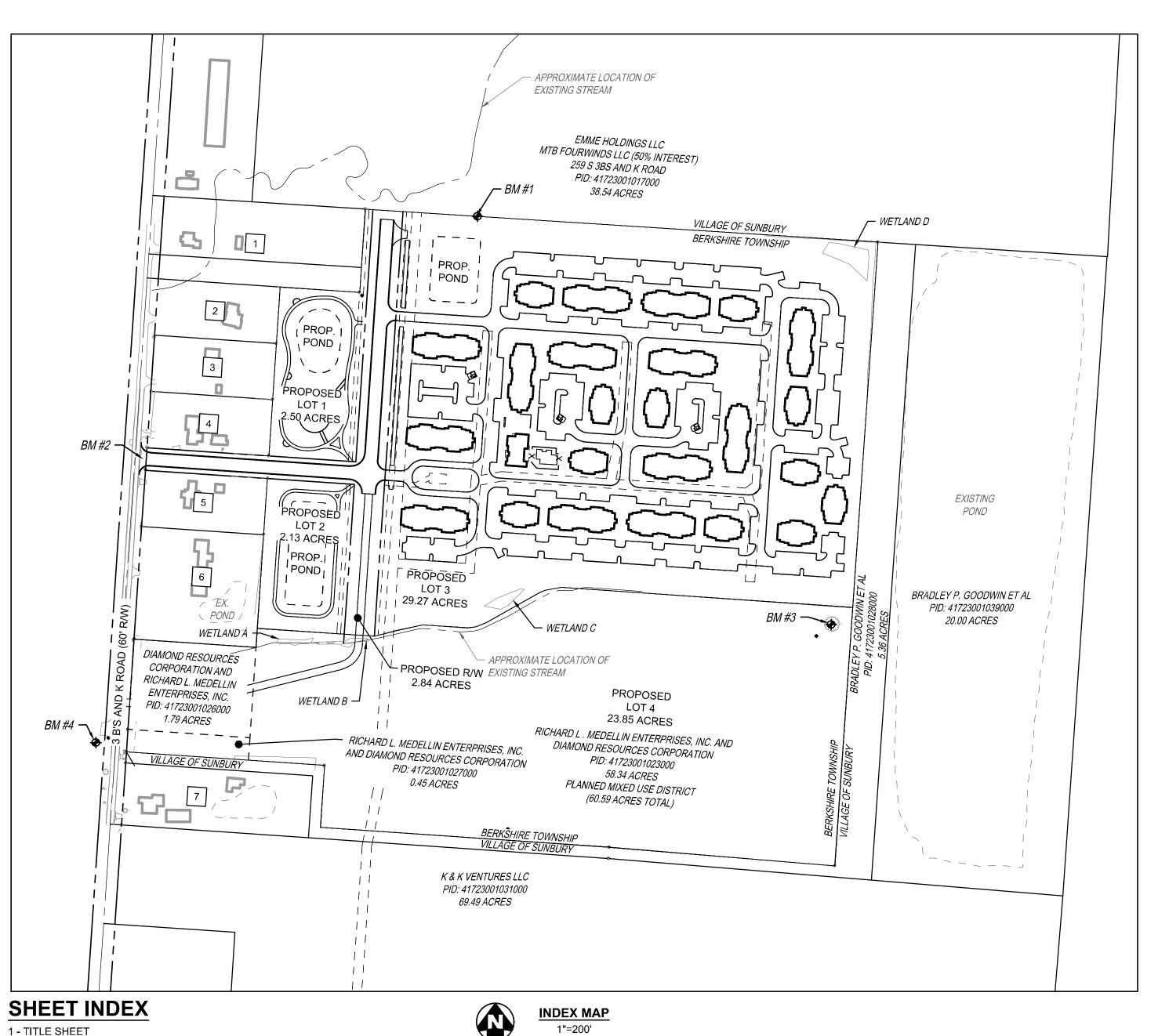
8 - LOCATION PLAN

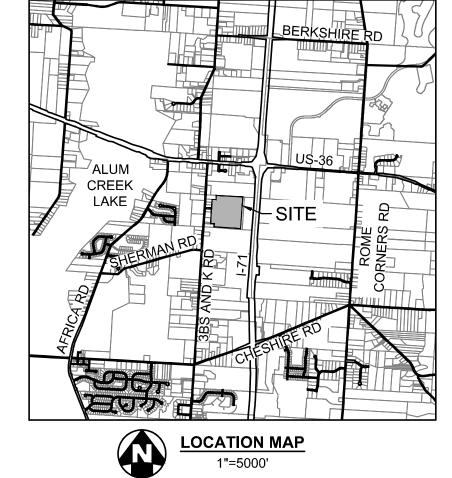
THE PROPOSED SITE IS IN THE FLOOD HAZARD ZONE X AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS. MAP NUMBER 39041C0145K, EFFECTIVE

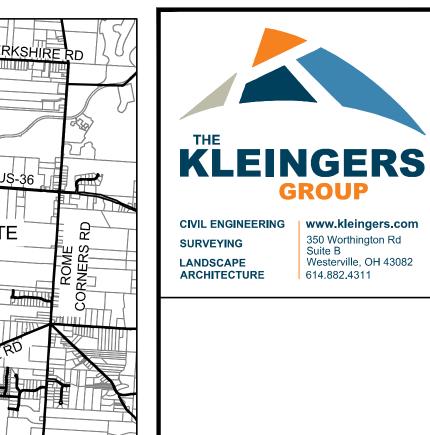
- NO VEHICULAR ACCESS TO BE IN EFFECT UNTIL SUCH TIME AS THE PUBLIC RIGHT-OF-WAY IS EXTENDED AND DEDICATED BY PLAT OR DEED.
- THE BERKSHIRE TOWNSHIP FIRE DEPARTMENT WILL REVIEW AND APPROVE ALL FIRE HYDRANT LOCATIONS AND WATER LINE SIZE PRIOR TO START OF CONSTRUCTION. (FIRE HYDRANTS SHALL BE A MAXIMUM OF 400' APART.)
- ALL STORM WATER DRAINAGE, FLOOD ROUTES, OPEN DITCHES AND BASINS WILL BE PART OF THE DELAWARE COUNTY DITCH MAINTENANCE PROGRAM.
- BE ADVISED: A SUB-SURFACE DRAINAGE SYSTEM MAY EXIST ON THIS SITE. THE SYSTEM AND/OR OUTLET, IF LOCATED ON THIS PROPERTY, MUST BE MAINTAINED AT ALL TIMES.
- THERE WILL BE NO KNOWN CEMETERIES, HISTORICAL, OR ARCHAEOLOGICAL SITES AFFECTED BY THIS PROJECT.

DEVELOPMENT PLAN FOR PHOENIX PLACE

FARM LOT 6, SEC. 2, TWP. 4, R. 18, USML DELAWARE COUNTY, OHIO BERKSHIRE TOWNSHIP PLANNED MIXED USE DISTRICT







614.882.4311

APPLICANT

DUBLIN CAPITAL GROUP 715 SHAWAN FALLS DR, SUITE #693 **DUBLIN, OH 43017** PHONE: (614) 361-6670 CONTACT: BRIAN COATE EMAIL: BRIAN.COATE@DUBLINCAPITALGROUP.COM

ARCHITECT

RDL ARCHITECTS 16102 CHAGRIN BLVD SHAKER HEIGHTS, OH 44120 PHONE: (216) 752-4300 CONTACT: TOM SCHUMACHER EMAIL: TOM@RDLARCHITECTS.COM

PLAN PREPARED BY

THE KLEINGERS GROUP 350 WORTHINGTON ROAD, SUITE B WESTERVILLE, OHIO 43082 PHONE: (614) 882-4311 CONTACT: BRENDAN M. FLEMING, PE EMAIL: BRENDAN.FLEMING@KLEINGERS.COM

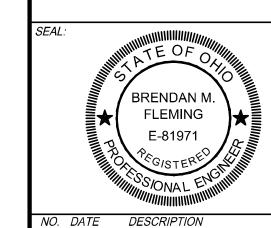
TAG NUMBER	OWNER INFORMATION
1	SCHROEDER AMANDA J 399 S 3BS AND K ROAD PID: 41723001019000 2.85 ACRES
2	GREYSMAN BORIS & LYUDMILA 461 S 3BS AND K ROAD PID: 41723001020000 1.12 ACRES
3	MOORE TOM R & CARLA TRUSTEES 495 S 3BS AND K ROAD PID: 41723001021000 1.12 ACRES
4	RICHMOND EVERECE M SR & BETTY L 515 S 3BS AND K ROAD PID: 41723001022000 1.12 ACRES
5	GREGG CHRISTOPHER R & EVERLEY GREGG ALYSSA 591 S 3BS AND K ROAD PID: 41723001024000 1.12 ACRES
6	EMILY K. KING AND ROBERT C. PFISTER 615 S 3BS AND K ROAD PID: 41723001025000 2.24 ACRES
7	BRIAN E. MILLS AND KATHY A. MILLS 751 S 3BS AND K ROAD PID: 41723001029000 2.00 ACRES

STREET DATA

STREET	TOTAL ADT	STREET CLASSIFICATION	TERRAIN CLASSIFICATION	DESIGN SPEE
COLLECTOR ROAD	5310 VPD	COMMERCIAL PRIVATE	LEVEL	40 MPH
FOURWINDS DRIVE	5310 VPD	COMMERCIAL PRIVATE	LEVEL	50 MPH

STANDARD DRAWINGS

HE DELAWARE COUN	AWARE COL	COUNTY STANDARD DRAWING	S LISTED ON THIS PLAN SHALL B	E CONSIDERED A PART T	HEREC
CED-S102A	S102A	DCED-S139	DCED-R100	DCED-R2158B	
CED-S106	\$106	DCED-S149	DCED-R103	DCED-R2190	
OCED-S112	S112	DCED-S168	DCED-R1450	DCED-R2300	
CED-S117	S117	DCED-S176	DCED-R2020	ODOT CB-2.1	
CED-S119	S119	DCED-S441A	DCED-R2135A	ODOT CB-2.2	
CED-S133C	S133C	DCED-S441B	DCED-R2135D		
CED-S133C	3133C	DCED-S441B	DCED-R2135D		



PHOENIX PLACE

TOWNSHIP OF BERKSHIRE COUNTY OF DELAWARE, OHIO

FARM LOT 6, SEC. 2 TWP. 4, R. 18

PROJECT NO:	200078.000
DATE:	04/23/2021
SCALE:	

AS SHOWN

SHEET NAME:

TITLE SHEET

16.06.C.13. - The total amount of Lot Coverage, as that term is defined in Article 4 of this Resolution, proposed by the Application and Development Plan. Our current plan provides for lot coverage of 47%, which is significantly less than the limit of 80% in accordance with the definition in Article 4. This can be found on the title sheet of the Engineering plans, page 1.

LOT COVERAGE CALCULATIONS

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			36.74	

WETLAND TABLE

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WET	LAND B (OFFSITE)	0.02	0.01
WET	LAND C (ONSITE)	0.05	0.00
WET	LAND D (ONSITE)	0.14	0.00

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24 - LANDSCAPE NOTES & DETAILS 25 - FIRETRUCK TURNING PLAN

17 - LANDSCAPE KEY PLAN

18 - LANDSCAPE PLAN 19 - LANDSCAPE PLAN 20 - LANDSCAPE PLAN

21 - LANDSCAPE PLAN 22 - LANDSCAPE PLAN 23 - LANDSCAPE PLAN

15 - SANITARY EXTENSION STA. 0+00 TO 11+24.18

16 - SANITARY EXTENSION STA. 11+24.18 TO 28+46.79

3 - LOCATION PLAN

4 - LOCATION PLAN 5 - LOCATION PLAN

6 - LOCATION PLAN

7 - LOCATION PLAN

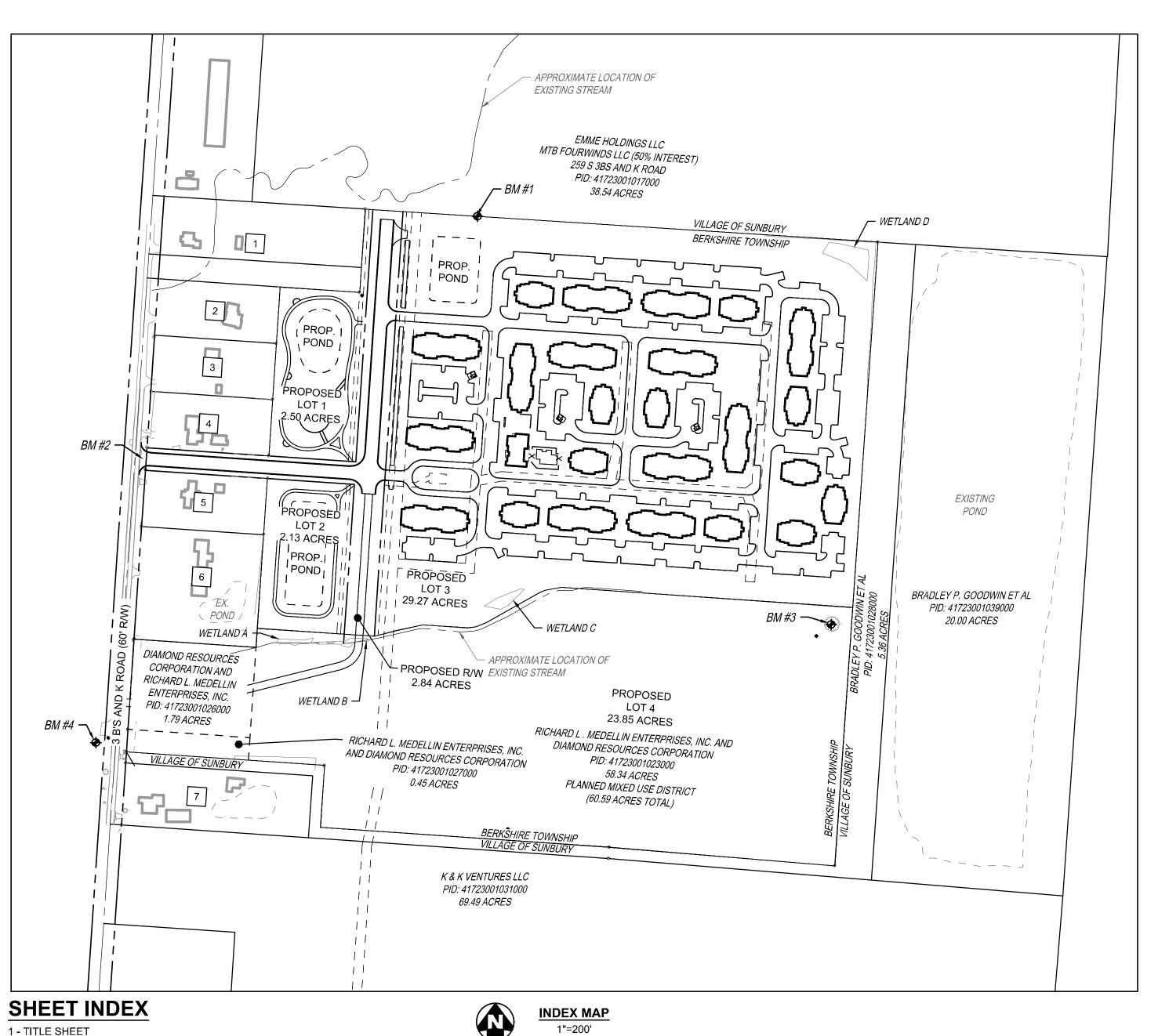
8 - LOCATION PLAN

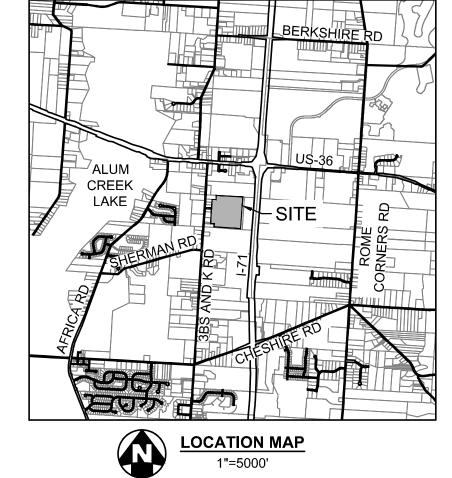
THE PROPOSED SITE IS IN THE FLOOD HAZARD ZONE X AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS. MAP NUMBER 39041C0145K, EFFECTIVE

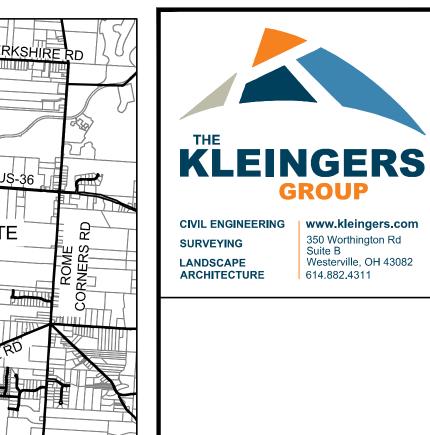
- NO VEHICULAR ACCESS TO BE IN EFFECT UNTIL SUCH TIME AS THE PUBLIC RIGHT-OF-WAY IS EXTENDED AND DEDICATED BY PLAT OR DEED.
- THE BERKSHIRE TOWNSHIP FIRE DEPARTMENT WILL REVIEW AND APPROVE ALL FIRE HYDRANT LOCATIONS AND WATER LINE SIZE PRIOR TO START OF CONSTRUCTION. (FIRE HYDRANTS SHALL BE A MAXIMUM OF 400' APART.)
- ALL STORM WATER DRAINAGE, FLOOD ROUTES, OPEN DITCHES AND BASINS WILL BE PART OF THE DELAWARE COUNTY DITCH MAINTENANCE PROGRAM.
- BE ADVISED: A SUB-SURFACE DRAINAGE SYSTEM MAY EXIST ON THIS SITE. THE SYSTEM AND/OR OUTLET, IF LOCATED ON THIS PROPERTY, MUST BE MAINTAINED AT ALL TIMES.
- THERE WILL BE NO KNOWN CEMETERIES, HISTORICAL, OR ARCHAEOLOGICAL SITES AFFECTED BY THIS PROJECT.

DEVELOPMENT PLAN FOR PHOENIX PLACE

FARM LOT 6, SEC. 2, TWP. 4, R. 18, USML DELAWARE COUNTY, OHIO BERKSHIRE TOWNSHIP PLANNED MIXED USE DISTRICT







614.882.4311

APPLICANT

DUBLIN CAPITAL GROUP 715 SHAWAN FALLS DR, SUITE #693 **DUBLIN, OH 43017** PHONE: (614) 361-6670 CONTACT: BRIAN COATE EMAIL: BRIAN.COATE@DUBLINCAPITALGROUP.COM

ARCHITECT

RDL ARCHITECTS 16102 CHAGRIN BLVD SHAKER HEIGHTS, OH 44120 PHONE: (216) 752-4300 CONTACT: TOM SCHUMACHER EMAIL: TOM@RDLARCHITECTS.COM

PLAN PREPARED BY

THE KLEINGERS GROUP 350 WORTHINGTON ROAD, SUITE B WESTERVILLE, OHIO 43082 PHONE: (614) 882-4311 CONTACT: BRENDAN M. FLEMING, PE EMAIL: BRENDAN.FLEMING@KLEINGERS.COM

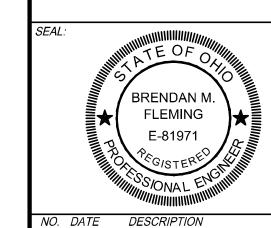
TAG NUMBER	OWNER INFORMATION
1	SCHROEDER AMANDA J 399 S 3BS AND K ROAD PID: 41723001019000 2.85 ACRES
2	GREYSMAN BORIS & LYUDMILA 461 S 3BS AND K ROAD PID: 41723001020000 1.12 ACRES
3	MOORE TOM R & CARLA TRUSTEES 495 S 3BS AND K ROAD PID: 41723001021000 1.12 ACRES
4	RICHMOND EVERECE M SR & BETTY L 515 S 3BS AND K ROAD PID: 41723001022000 1.12 ACRES
5	GREGG CHRISTOPHER R & EVERLEY GREGG ALYSSA 591 S 3BS AND K ROAD PID: 41723001024000 1.12 ACRES
6	EMILY K. KING AND ROBERT C. PFISTER 615 S 3BS AND K ROAD PID: 41723001025000 2.24 ACRES
7	BRIAN E. MILLS AND KATHY A. MILLS 751 S 3BS AND K ROAD PID: 41723001029000 2.00 ACRES

STREET DATA

STREET	TOTAL ADT	STREET CLASSIFICATION	TERRAIN CLASSIFICATION	DESIGN SPEE
COLLECTOR ROAD	5310 VPD	COMMERCIAL PRIVATE	LEVEL	40 MPH
FOURWINDS DRIVE	5310 VPD	COMMERCIAL PRIVATE	LEVEL	50 MPH

STANDARD DRAWINGS

THE DELAWARE COU	TY STANDARD DRAWINGS LISTED ON THIS PLAN SHALL BE CONSIDERED A PART THERE			IEREC
DCED-S102A	DCED-S139	DCED-R100	DCED-R2158B	
DCED-S106	DCED-S149	DCED-R103	DCED-R2190	
DCED-S112	DCED-S168	DCED-R1450	DCED-R2300	
DCED-S117	DCED-S176	DCED-R2020	ODOT CB-2.1	
DCED-S119	DCED-S441A	DCED-R2135A	ODOT CB-2.2	
DCED-S133C	DCED-S441B	DCED-R2135D		
DCED-S133C	DCED-S441B	DCED-R2135D		



PHOENIX PLACE

TOWNSHIP OF BERKSHIRE COUNTY OF DELAWARE, OHIO

FARM LOT 6, SEC. 2 TWP. 4, R. 18

PROJECT NO:	200078.000
DATE:	04/23/2021
SCALE:	

AS SHOWN

SHEET NAME:

TITLE SHEET

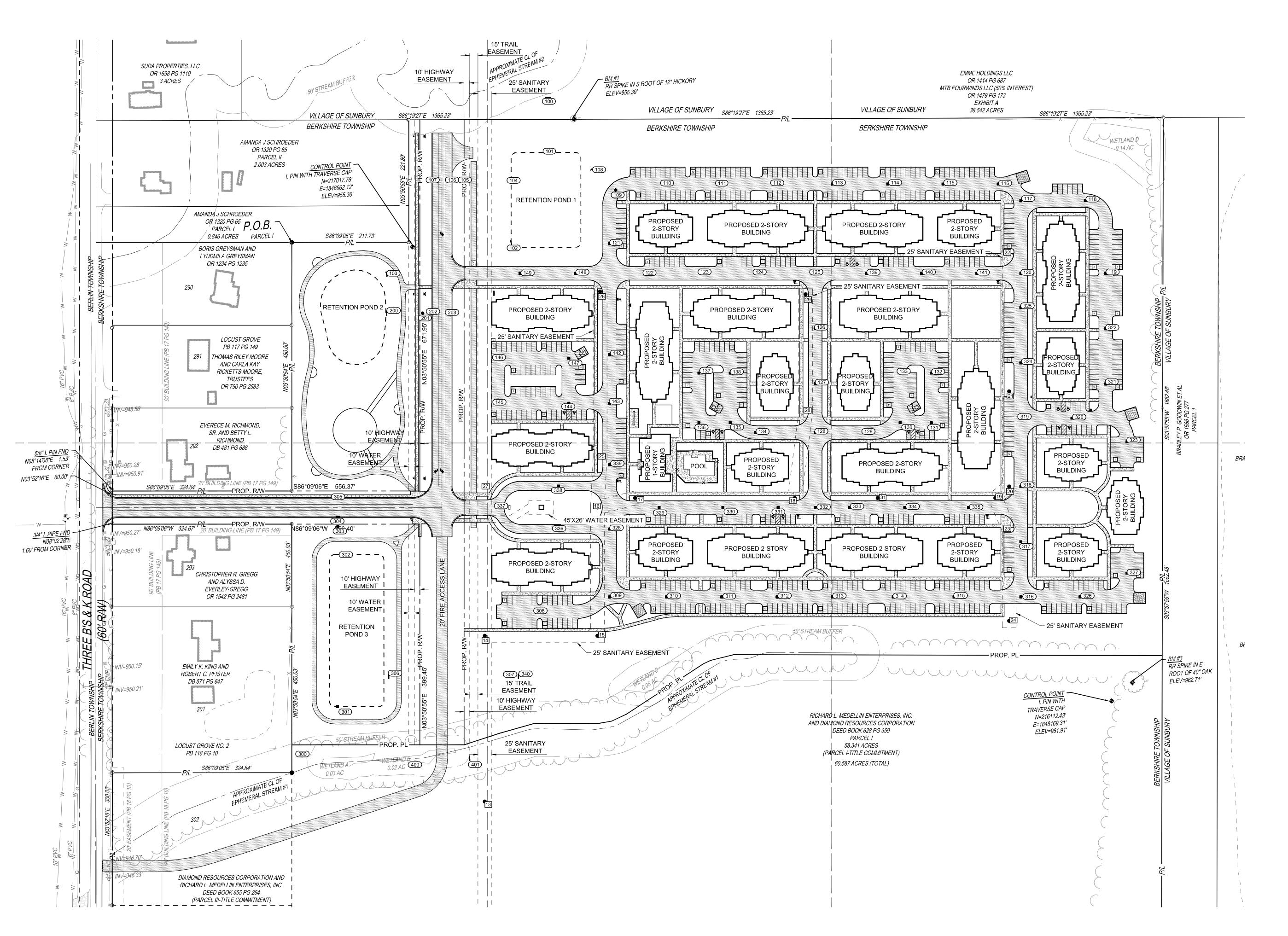
16.06.C.14. - Parcels of land intended to be dedicated or temporarily reserved for public use or reserved by deed covenant with the condition proposed for such covenant or dedication. We plan to extend Fourwinds Drive, which will be a public right of way. At the suggestion of the zoning administrator, we have added additional trails around the property, including the southern portion of the lot, where the existing trees are located that can be available for public use. We will add sidewalks throughout the site and outdoor fitness equipment that will be available to the community to use. We do not see the need to restrict these by deed covenant since they will remain on our land and we will provide ongoing maintenance.

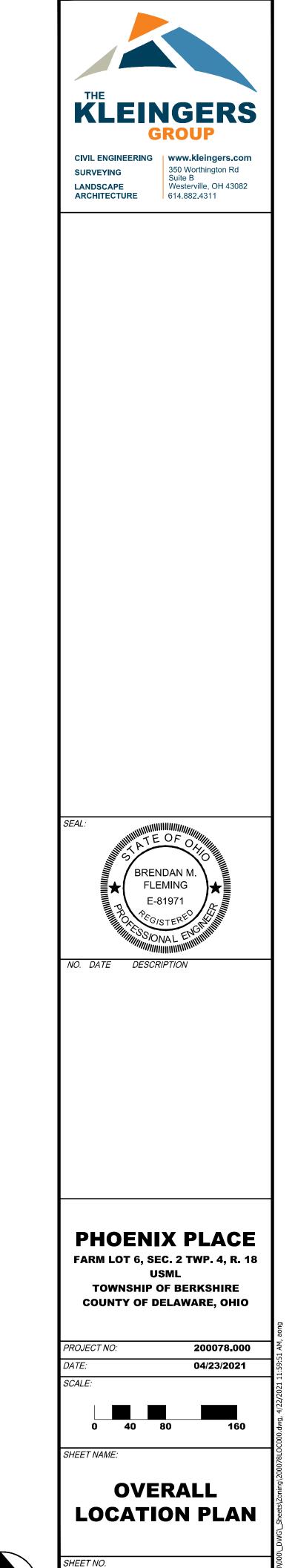
16.06.C.15. - Building setback lines with dimensions. We plan to have a building right of way setback of 50 feet, that exceeds the requirement of 30 feet. The side setback required is 25 feet, we plan to have setbacks of 152 feet and 165 feet. Please also note that we've placed our lot 361 feet from the closest residential lot.

a. Please See Sheets 2-8 of The Printed Engineering Plan (Kleingers) – Location Plan

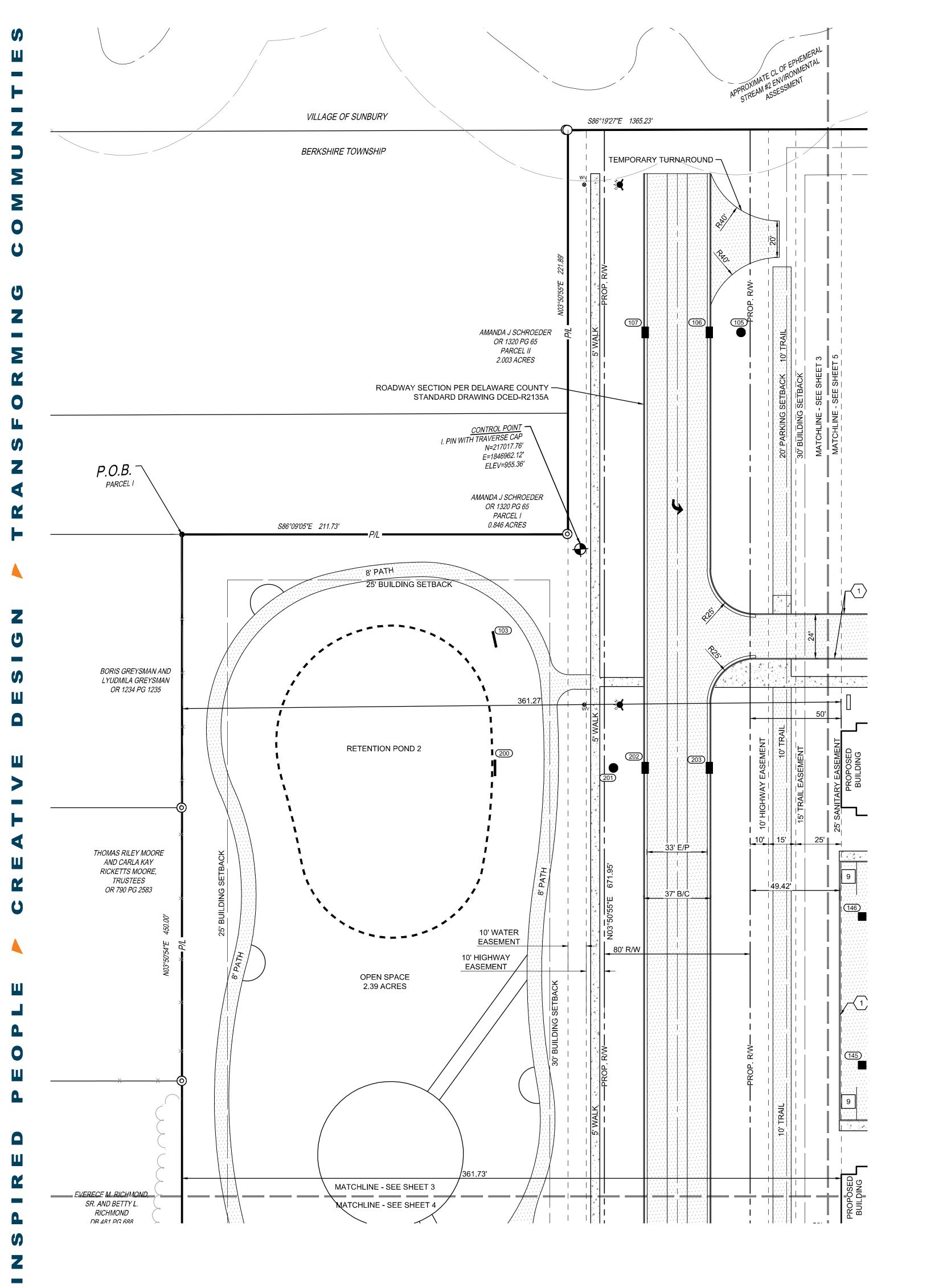
This was also highlighted on the cover page of the Printed Engineering Plan (Kleingers) shown below.

CODE SECTION	STANDARD	REQUIREMENT	PROPOSED
16.08 A	MINIMUM SITE ACREAGE	3	33.90
-	NET ACREAGE	SITE ACREAGE X 0.85	28.82
-	BUILDING AREA (ACRE)	N/S	4.48
16.08 C.1	MAXIMUM NUMBER OF UNITS	300	296
16.08 C.1	DENSITY (UNITS / ACRE)	8 MIN, 12 MAX	10.27
16.08 D.1	STREET FRONTAGE (FT)	55	1131
16.08 D.2	BUILDING SIDE YARD SETBACK (FT)	25	165.10 (N),152.21 (S)
16.08 D.3	BUILDING REAR YARD SETBACK (FT)	25	34
16.08 D.4	BUILDING RIGHT-OF-WAY SETBACK (FT)	30	50









CATCH BASIN

HEADWALL

MANHOLE

CURB INLET

SANITARY MANHOLE WATER VALVE

FIRE HYDRANT

ASPHALT PAVEMENT CONCRETE WALK HEAVY DUTY CONCRETE PAVEMENT

PROPOSED PARKING COUNT

- - - PROPOSED POND

CODED NOTES

NOTES

1. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.

3. ALL STANDARD PARKING SPACES ARE 9'W x 20'L

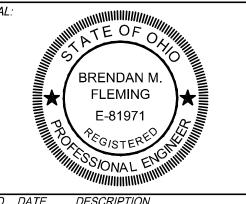
SITE RADII ARE DESIGNED TO ACCOMMODATE EMERGENCY AND FIRE-FIGHTING APPARATUS.

6. ALL EDGES OF PAVEMENT SHALL HAVE 6" FULL HEIGHT CURB.

4. ALL ADA SPACES ARE 8'W x 20'L.

1 6" FULL HEIGHT CURB





NO. DATE DESCRIPTION

FARM LOT 6, SEC. 2 TWP. 4, R. 18

TOWNSHIP OF BERKSHIRE COUNTY OF DELAWARE, OHIO

PHOENIX PLACE

PROJECT NO: 200078.000 ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURB UNLESS OTHERWISE NOTED.

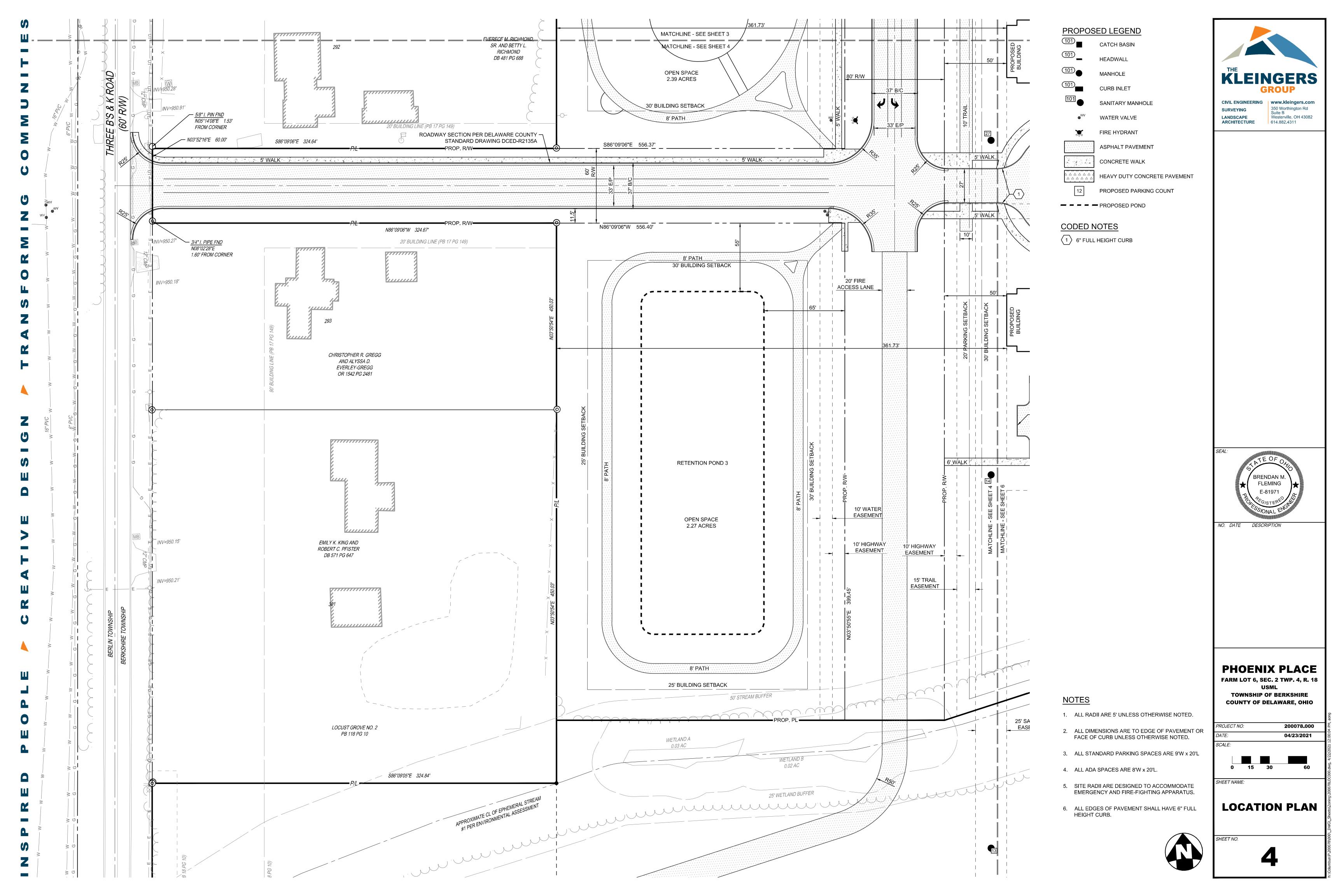
0 15 30

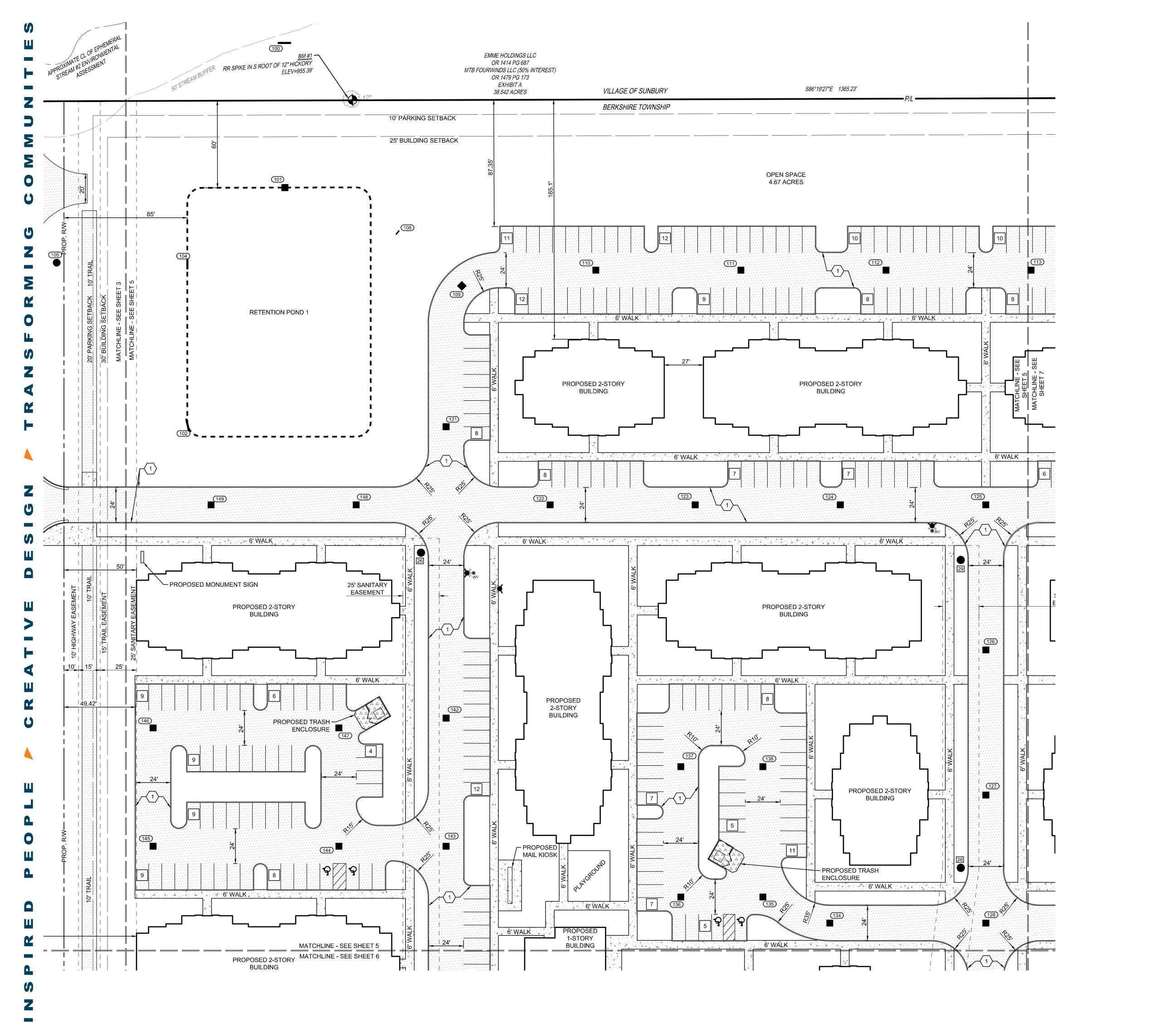
04/23/2021

SHEET NAME:

LOCATION PLAN







(101) CATCH BASIN

HEADWALL

MANHOLE

(101) CURB INLET

SANITARY MANHOLE

⊗^{WV} WATER VALVE

FIRE HYDRANT

ASPHALT PAVEMENT

CONCRETE WALK

HEAVY DUTY CONCRETE PAVEMENT

PROPOSED PARKING COUNT

CODED NOTES

1 6" FULL HEIGHT CURB



NO. DATE DESCRIPTION

KLEINGERS

CIVIL ENGINEERING www.kleingers.com

ARCHITECTURE 614.882.4311

SURVEYING

LANDSCAPE

350 Worthington Rd Suite B Westerville, OH 43082

<u>NOTES</u>

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PHOENIX PLACE
FARM LOT 6, SEC. 2 TWP. 4, R. 18

TOWNSHIP OF BERKSHIRE COUNTY OF DELAWARE, OHIO

PROJECT NO: 200078.000

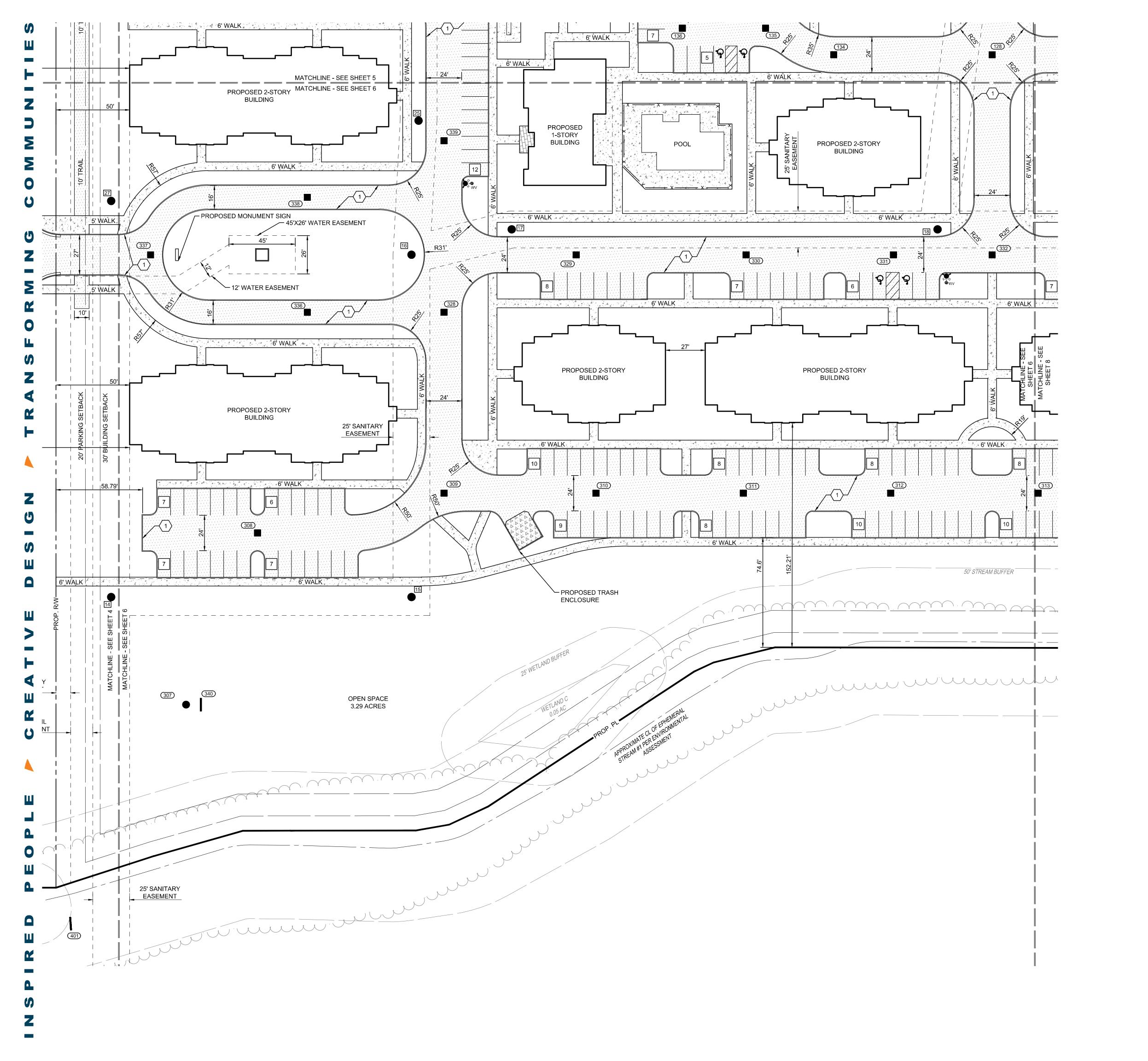
DATE: 04/23/2021

0 15 30 60

SHEET NAME:

LOCATION PLAN

5



CATCH BASIN HEADWALL

MANHOLE **CURB INLET**

SANITARY MANHOLE

WATER VALVE

FIRE HYDRANT ASPHALT PAVEMENT CONCRETE WALK

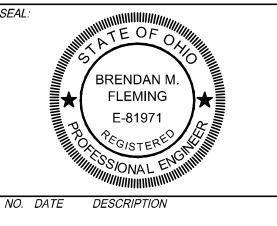
HEAVY DUTY CONCRETE PAVEMENT PROPOSED PARKING COUNT

- - - PROPOSED POND

CODED NOTES

1 6" FULL HEIGHT CURB





NOTES

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PHOENIX PLACE FARM LOT 6, SEC. 2 TWP. 4, R. 18

TOWNSHIP OF BERKSHIRE COUNTY OF DELAWARE, OHIO

PROJECT NO: 200078.000 04/23/2021

0 15 30

SHEET NAME:

LOCATION PLAN