HERITAGE PRESERVE

PRELIMINARY SITE PLAN (OSPDO)
SINGLE FAMILY DEVELOPMENT
PITTSFIELD TOWNSHIP, WASHTENAW COUNTY, MICHIGAN

DEVELOPMENT TEAM

APPLICANT / DEVELOPER
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1943 HENRIETTA STREET
BIRMINGHAM, MI 48009
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CONTACT: MATTHEW W. BUSH, PE
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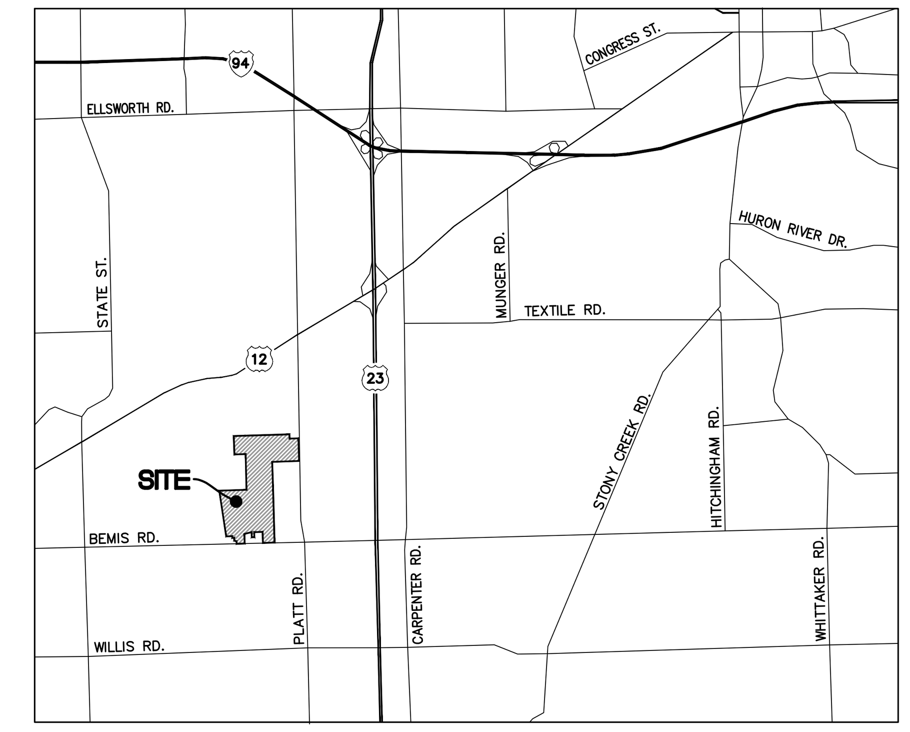
LANDSCAPE ARCHITECT
ALLEN DESIGN
557 CARPENTER
NORTHVILLE, MICHIGAN 48167
PHONE: 248.467.4668
ATTN: JIM ALLEN
EMAIL: JCA@WIDEOPENWEST.COM

PROPERTY OWNERS
PENZ DEVELOPMENT COMPANY
30555 SOUTHFIELD RD STE 430
SOUTHFIELD, MI 48076

PITTSFIELD INVESTORS LLC
4190 TELEGRAPH RD STE 3100
BLOOMFIELD HILLS, MI 48302

MAKIELSKI DIANE L TRUST
7130 PLATT RD
YPSILANTI, MI 48197



VICINITY MAP
NO SCALE

SITE DATA

PARCEL DATA						
PARCEL ID #:	12-34-200-001,12-34-100-002, 12-34-300-001, 12-34-400-027, 12-34-300-033, 12-34-300-034					
EXISTING ZONING	AG (AGRICULTURAL)					
PROPOSED ZONING	OSPDO (OPEN SPACE PRESERVATION DEVELOPMENT OPTION)					
EXISTING LAND USE	AGRICULTURAL/RESIDENTIAL					
PROPOSED LAND USE	RESIDENTIAL					
LAND AREA						
GROSS SITE AREA	274.12 AC	±	11,940,748 SF	±		
PUBLIC ROAD R.O.W.	2.92 AC	±	127,056 SF	±		
WETLANDS	27.35 AC	±	1,191,481 SF	±		
UTILITY EASEMENTS	3.52 AC	±	153,367 SF	±		
NET SITE AREA	240.33 AC	±	10,468,844 SF	±		
PROPOSED DENSITY						
TOTAL PROPOSED UNITS	92 UNITS					
PHASE ONE UNITS	30 UNITS					
PHASE TWO UNITS	62 UNITS					
TOTAL UNITS ALLOWED	95 UNITS	Parent Parcel Area x 0.35				
PROPOSED DENSITY (GROSS)	0.34 DU / AC	±				
PROPOSED DENSITY (NET)	0.38 DU / AC	±				
SITE DATA						
PROPOSED LOT SIZE (MIN.)	24,000 SF					
PROPOSED LOT WIDTH (MIN.)	120 FT					
PROPOSED GROUND FLOOR AREA	4,800 SF / UNIT	±				
INDIVIDUAL LOT COVERAGE	20.0 %	±				
TOTAL GROUND FLOOR AREA	441,600 SF	±				
GROSS LOT AREA RATIO	3.7%					
NET LOT AREA RATIO	4.2%					
TOTAL FLOOR AREA	883,200 SF	±				
GROSS LOT AREA RATIO	7.4%					
NET LOT AREA RATIO	8.4%					
PROPOSED BUILDING HEIGHT (2 STORIES)	35 FT	±				
PROPOSED IMPERVIOUS SURFACE	877,160 SF	±				
PROPOSED IMPERVIOUS SURFACE RATIO	8.4 %	±				
PROPOSED OPEN SPACE AREA	146 AC	±	Excluding Detention Areas			
PROPOSED OPEN SPACE PERCENTAGE	61%	±				
SETBACKS						
FRONT	35'					
REAR	35'					
SIDE	20' 50' TOTAL					
PARKING REQUIREMENTS						
REQUIRED PARKING	184 SPACES (2 PER UNIT)					
PROVIDED PARKING	368 SPACES (4 PER UNIT)					

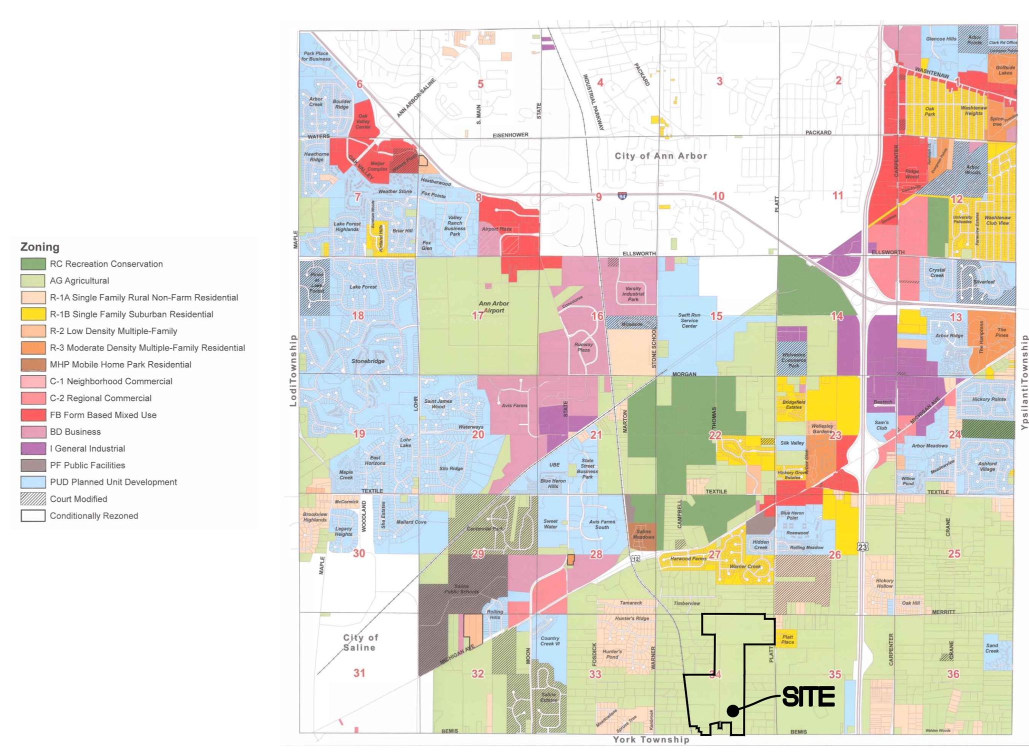
OVERALL DEVELOPMENT MAP
1" = 500 FEET

DEVELOPMENT NARRATIVE

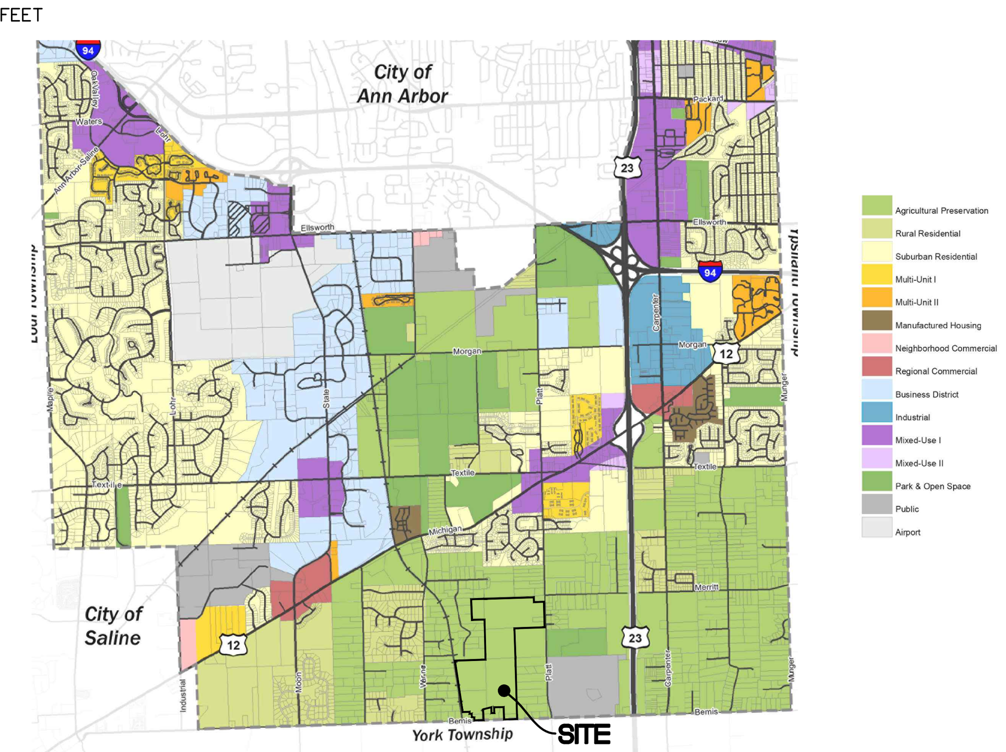
IN ACCORDANCE WITH THE PITTSFIELD TOWNSHIP ZONING ORDINANCE, SECTION 7.02, WE REQUEST APPROVAL OF THE HERITAGE PRESERVE RESIDENTIAL SITE CONDOMINIUM DEVELOPMENT UNDER THE PROVISIONS OF THE OPEN SPACE PRESERVATION DEVELOPMENT OPTION (OSPDO).

THE PITTSFIELD TOWNSHIP ZONING ORDINANCES RECOMMENDS OSPDO DEVELOPMENT AS A MEANS TO PRESERVE NATURAL FEATURES THROUGH DEDICATED OPEN SPACE BY ALLOWING RESIDENCES TO BE CLUSTERED ON SMALLER LOTS. THE PROPOSED DEVELOPMENT OF THIS SITE AS AN OSPDO RESIDENTIAL NEIGHBORHOOD IS BASED ON THE SITE FEATURES, THE PITTSFIELD TOWNSHIP MASTER PLAN, ADJACENT USES AND THE INTERESTS OF THE GENERAL PUBLIC FOR MODERN RESIDENTIAL HOMES IN BEAUTIFUL RURAL SETTINGS IN CLOSE PROXIMITY TO LOCAL COMMUNITY ACTIVITIES, SCHOOLS, AND SHOPPING. BY UTILIZING THE OPEN SPACE PRESERVATION DEVELOPMENT OPTION, THE DEVELOPMENT ON THIS PROPERTY CAN BE SITUATED TO PROTECT NATURAL FEATURES AND PROVIDE GENEROUS OPEN SPACE IN BEAUTIFUL NATURAL AREAS ALONG THE EXISTING STREAM CORRIDOR.
THE PROJECT INCLUDES LAND TO BE TRANSFERRED FROM THE J.A. BLOCH AND COMPANY PARCEL, THE PITTSFIELD INVESTORS LLC PARCEL. AND THE MAKIELSKI PARCEL. THIS IS THROUGH AN AGREEMENT BETWEEN THE PARCEL OWNERS AND DEVELOPER. THIS TRANSFER AREA IS SHOWN ON THE PLAN.

SEE SHEET 10 FOR ELIGIBILITY OF PROPERTY AND OPEN SPACE MANAGEMENT PLAN.



ZONING MAP
NO SCALE



FUTURE LAND USE
NO SCALE

SHEET INDEX

01	COVER SHEET
02	EXISTING CONDITIONS & DEMO PLAN – NORTH
03	EXISTING CONDITIONS & DEMO PLAN – SOUTH
04	LEGAL DESCRIPTION & TEST PIT SUMMARY TABLE
05	NATURAL FEATURES PROTECTION PLAN – AREA 1
06	NATURAL FEATURES PROTECTION PLAN – AREA 2
07	NATURAL FEATURES PROTECTION PLAN – AREA 3
08	NATURAL FEATURES PROTECTION PLAN – AREA 4
09	NATURAL FEATURES PROTECTION PLAN – AREA 5
10	NATURAL FEATURES PROTECTION PLAN – TREE TAGS
11	OVERALL DEVELOPMENT PLAN
12	LAYOUT PLAN – AREA 1
13	LAYOUT PLAN – AREA 2
14	LAYOUT PLAN – AREA 3
15	LAYOUT PLAN – AREA 4
16	LAYOUT PLAN – AREA 5
17	LAYOUT PLAN – AREA 6
18	LAYOUT PLAN – AREA 7
19	LAYOUT PLAN – AREA 8
20	LAYOUT PLAN – AREA 9
21	OVERALL WELL & SEPTIC PLAN
22	OVERALL GRADING PLAN
23	GRADING PLAN – AREA 1
24	GRADING PLAN – AREA 2
25	GRADING PLAN – AREA 3
26	GRADING PLAN – AREA 4
27	GRADING PLAN – AREA 5
28	GRADING PLAN – AREA 6
29	GRADING PLAN – AREA 7
30	GRADING PLAN – AREA 8
31	GRADING PLAN – AREA 9
32	STORMWATER PLAN
33	DETENTION CALCULATIONS
34	FIRE PROTECTION PLAN
35	TREE LIST
36	TREE LIST
37	TREE LIST
38	TREE LIST
L-1	LANDSCAPE PLAN
L-2	LANDSCAPE PLAN
L-3	LANDSCAPE PLAN
L-4	LANDSCAPE PLAN
L-5	LANDSCAPE DETAILS

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO PITTSFIELD CHARTER TOWNSHIP'S CURRENT STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE APPROVED IN THE PRO AGREEMENT.
2. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE WASHTENAW COUNTY ROAD COMMISSION FOR ANY WORK WITHIN THE RIGHT-OF-WAY OF PLATT ROAD.
3. ALL PAVEMENT MARKINGS, TRAFFIC CONTROL SIGNS, AND PARKING SIGNS SHALL COMPLY WITH THE DESIGN AND PLACEMENT REQUIREMENTS OF THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. THE DEVELOPMENT IS PLANNED TO BE CONSTRUCTED IN TWO PHASES.
5. ANY CONSTRUCTED PEDESTRIAN WALKWAYS SHALL BE ADA COMPLIANT.
6. ALL OPEN SPACE DEDICATION SHALL BE INCLUDED IN THE FIRST PHASE OF THE DEVELOPMENT.

PERMITS/APPROVALS REQUIRED STATUS

PERMITS/APPROVALS REQUIRED	STATUS
WASHTENAW COUNTY ROAD COMMISSION	IN PROGRESS
WASHTENAW COUNTY WATER RESOURCES COMMISSIONER'S OFFICE	IN PROGRESS
PITTSFIELD TOWNSHIP ENGINEERING	IN PROGRESS
PITTSFIELD TOWNSHIP PLANNING	IN PROGRESS
MDEQ WETLANDS	IN PROGRESS
WASHTENAW COUNTY HEALTH DEPARTMENT	IN PROGRESS

811 Know what's below. Call before you dig.

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NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

COVER SHEET

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 250 500
1" = 500 FEET

DR. SK CH. --
P.M. MB
JOB 18003065
SHEET NO. 01

CAD FILE: 18003065SP-01-CV.DWG

C.S.P.A. #19-22

PRELIMINARY - NOT FOR CONSTRUCTION

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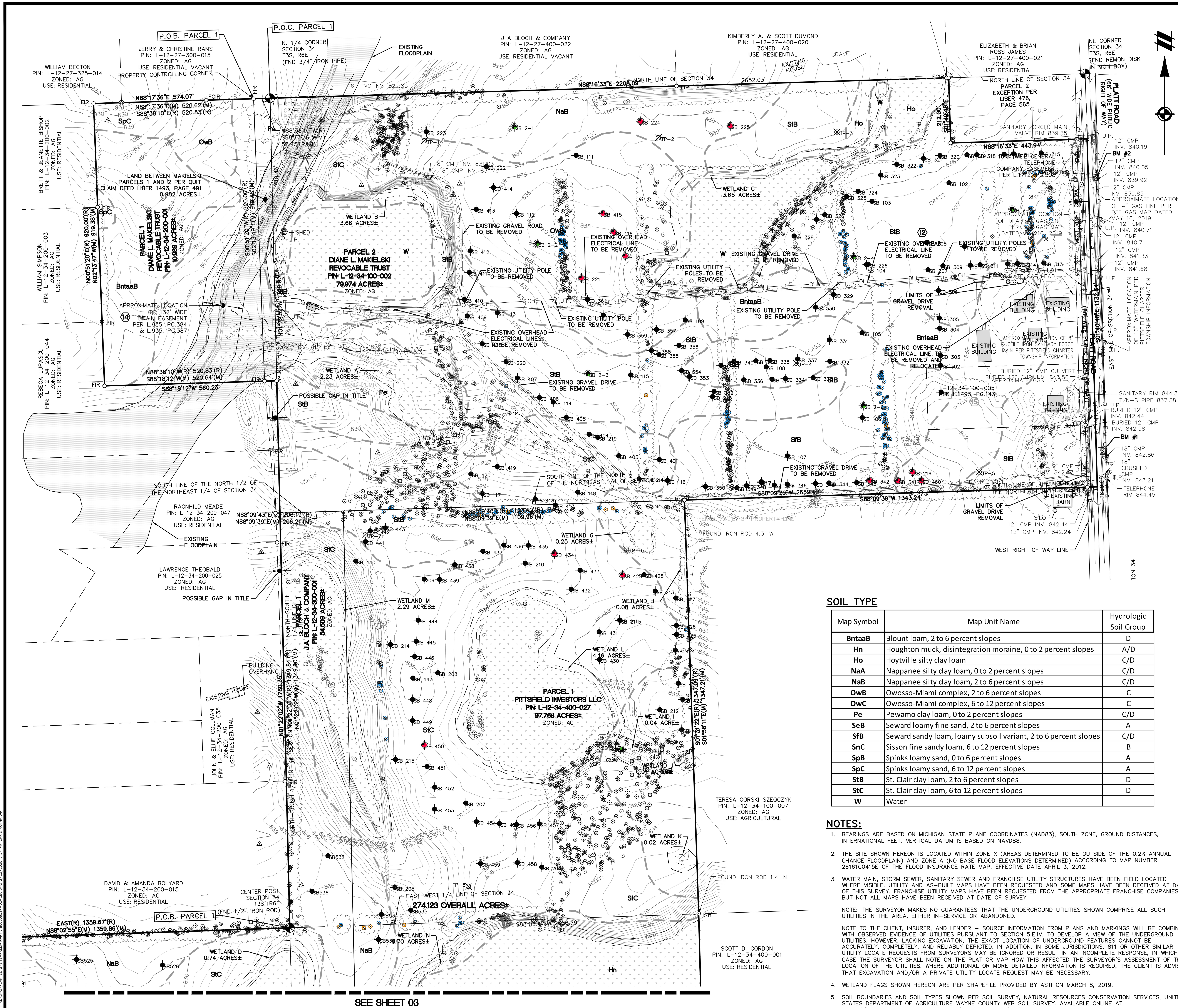

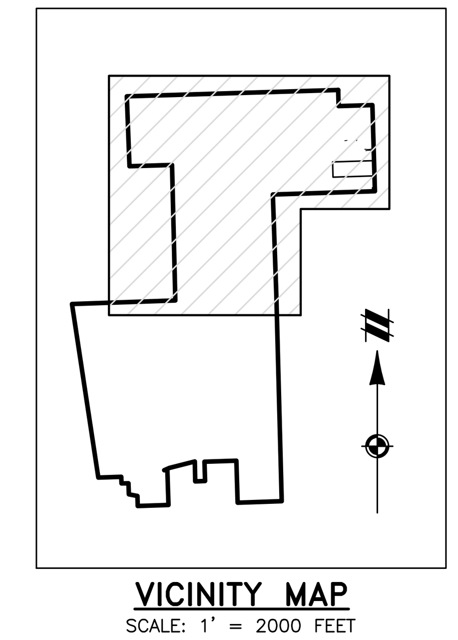

SITE INFORMATION

SITE LOCATION: PART OF THE NORTHEAST, SOUTHEAST, & SOUTHWEST 1/4 OF SECTION 34, PITTSFIELD CHARTER TOWNSHIP, MICHIGAN.

1. ULTIMATE RECEIVING WATER: **KOCH WARNER DRAIN** (ONSITE)
2. SITE SOILS INFORMATION: PER THE NRCS WEB SURVEY FOR WASHTENAW COUNTY: BntaaB, Hn, Ho, NaA, NaB, OwB, OwC, Pe, SeB, SfB, SnC, SpB, SpC, StB, StC, W
3. APPROXIMATE AREA OF DISTURBANCE: ±97.88 ACRES

SITE BENCHMARKS (U.S.G.S DATUM):

BM #1: SOUTH FLANGE BOLT ON FIRE HYDRANT IN EAST RIGHT OF WAY OF PLATT ROAD 1215'± SOUTH OF MERRITT ROAD
ELEVATION: 846.61 (NAVD88)

BM #2: ARROW ON FIRE HYDRANT IN EAST RIGHT OF WAY OF PLATT ROAD 340'± SOUTH OF MERRITT ROAD
ELEVATION: 843.83 (NAVD88)

BM #3: SET BENCHMARK ON TOP OF HORIZONTAL ANGLE BRACE END OF NORTHERLY TRANSMISSION TOWER LEG
ELEVATION: 840.99 (NAVD88)

BM #4: SET RAILROAD SPIKE IN SOUTH FACE OF UTILITY POLE IN NORTH RIGHT OF WAY OF BEMIS ROAD
ELEVATION: 840.90 (NAVD88)

BM #5: FOUND MAG NAIL IN NORTH FACE OF UTILITY POLE IN NORTH RIGHT OF WAY OF BEMIS ROAD
ELEVATION: 842.72 (NAVD88)

DEMOLITION NOTES:

1. ALL ON-SITE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT SPECIFICATIONS AND STANDARD DETAILS OF PITTSFIELD TOWNSHIP, UNLESS OTHERWISE SPECIFIED.
2. THE CONTRACTOR SHALL DEMOLISH OR RELOCATE ANY SITE FEATURES AS APPROPRIATE TO FACILITATE THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
3. ALL DEMOLITION MATERIALS SHALL BE PROPERLY REMOVED FROM THE SITE AND DISPOSED OF IN A LEGALLY DESIGNATED DISPOSAL AREA.
4. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS AND NOTIFY ALL AFFECTED UTILITY COMPANIES PRIOR TO THE DEMOLITION OF ANY EXISTING STRUCTURES. ALL EXISTING UTILITIES SHALL BE CAPPED OFF OR REMOVED SO AS NOT TO INTERFERE WITH THE CONSTRUCTION PROJECT. ALL DEBRIS SHALL BE HAULED AWAY FROM THE SITE AND DISPOSED OF AT AN APPROVED LOCATION.
5. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES AND FIELD LOCATE EXISTING UTILITIES.
6. ANY REMOVAL/ABANDONMENT OF EXISTING WELLS AND SEPTIC FIELDS, SHALL BE IN ACCORDANCE WITH WCEHD STANDARDS.

SOIL TYPE

Map Symbol	Map Unit Name	Hydrologic Soil Group
BntaaB	Blount loam, 2 to 6 percent slopes	D
Hn	Houghton muck, disintegration moraine, 0 to 2 percent slopes	A/D
Ho	Hoytville silty clay loam	C/D
NaA	Nappanee silty clay loam, 0 to 2 percent slopes	C/D
NaB	Nappanee silty clay loam, 2 to 6 percent slopes	C/D
OwB	Owosso-Miami complex, 2 to 6 percent slopes	C
OwC	Owosso-Miami complex, 6 to 12 percent slopes	C
Pe	Pewamo clay loam, 0 to 2 percent slopes	C/D
SeB	Seward loamy fine sand, 2 to 6 percent slopes	A
SfB	Seward sandy loam, loamy subsoil variant, 2 to 6 percent slopes	C/D
SnC	Sisson fine sandy loam, 6 to 12 percent slopes	B
SpB	Spinks loamy sand, 0 to 6 percent slopes	A
SpC	Spinks loamy sand, 6 to 12 percent slopes	A
StB	St. Clair clay loam, 2 to 6 percent slopes	D
StC	St. Clair clay loam, 6 to 12 percent slopes	D
W	Water	

NOTES:

1. BEARINGS ARE BASED ON MICHIGAN STATE PLANE COORDINATES (NAD83), SOUTH ZONE, GROUND DISTANCES, INTERNATIONAL FEET. VERTICAL DATUM IS BASED ON NAVD88.
2. THE SITE SHOWN HEREON IS LOCATED WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND ZONE A (NO BASE FLOOD ELEVATIONS DETERMINED) ACCORDING TO MAP NUMBER 26161C0415E OF THE FLOOD INSURANCE RATE MAP, EFFECTIVE DATE APRIL 3, 2012.
3. WATER MAIN, STORM SEWER, SANITARY SEWER AND FRANCHISE UTILITY STRUCTURES HAVE BEEN FIELD LOCATED WHERE VISIBLE. UTILITY AND AS-BUILT MAPS HAVE BEEN REQUESTED AND SOME MAPS HAVE BEEN RECEIVED AT DATE OF THIS SURVEY. FRANCHISE UTILITY MAPS HAVE BEEN REQUESTED FROM THE APPROPRIATE FRANCHISE COMPANIES, BUT NOT ALL MAPS HAVE BEEN RECEIVED AT DATE OF SURVEY.

   NOTE: THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED.

   NOTE TO THE CLIENT, INSURER, AND LENDER – SOURCE INFORMATION FROM PLANS AND MARKINGS WILL BE COMBINED WITH OBSERVED EVIDENCE OF UTILITIES PURSUANT TO SECTION 5.E.IV. TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, IN WHICH CASE THE SURVEYOR SHALL NOTE ON THE PLAT OR MAP HOW THIS AFFECTED THE SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY.
4. WETLAND FLAGS SHOWN HEREON ARE PER SHAPEFILE PROVIDED BY ASTI ON MARCH 8, 2019.
5. SOIL BOUNDARIES AND SOIL TYPES SHOWN PER SOIL SURVEY, NATURAL RESOURCES CONSERVATION SERVICES, UNITED STATES DEPARTMENT OF AGRICULTURE WAYNE COUNTY WEB SOIL SURVEY. AVAILABLE ONLINE AT HTTP://WEBSOILSURVEY.NRCS.USDA.GOV/. ACCESSED 07/25/2019.
6. SEE SHEET 04 FOR LEGAL DESCRIPTION & TEST PIT DESCRIPTION TABLE.

LEGEND

- BOUNDARY LINE
- EXIST. EASEMENT
- SECTION LINE
- BOUNDARY/PROPERTY LINE
- EXIST. SETBACK
- EXIST. CONTOUR (890)
- EXIST. TREE LINE
- EXIST. CURB AND GUTTER
- EXIST. FENCE
- EXIST. GRAVEL
- EXIST. BUILDING
- EXIST. STRUCTURE
- EXIST. WALL
- EXIST. SOIL BOUNDARY
- EXIST. SOILS TYPE (MoC)
- EXISTING TREE
- EXISTING DEMO TREE
- EXISTING HERITAGE TREE
- EXISTING DEMO HERITAGE TREE
- EXISTING REGULATED TREE
- EXISTING DEMO REGULATED TREE
- EXIST. WETLAND
- EXIST. WATER MAIN (W)
- EXIST. SANITARY
- EXIST. GAS (G)
- EXIST. STORM
- EXIST. OVERHEAD ELEC. LINE (OHE)
- EXIST. OVERHEAD TELE. LINE (OHT)
- EXIST. CABLE LINE (TV)
- EXIST. UNSPECIFIED UTILITIES (U)
- EXIST. CULVERT
- EXIST. CATCH BASIN/INLET
- EXIST. HYDRANT
- EXIST. VALVE
- EXIST. SANITARY SEWER
- EXIST. UNSPECIFIED UTILITY
- EXIST. SIGN
- EXIST. LIGHT POLE
- EXIST. WETLAND
- EXIST. WETLAND BUFFER
- TEST PIT LOCATION (APPROVED BY WCHD)
- TEST PIT LOCATION (NOT APPROVED BY WCHD)
- SOIL BORING LOCATION (McDOWELL & ASSOCIATES)
- TEST PIT (McDOWELL & ASSOCIATES)

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

EXISTING CONDITIONS & DEMO PLAN – NORTH

DATE OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 75 150
1" = 150 FEET

DR. SK | CH. ––
P.M. MB
JOB 18003065
SHEET NO. 02

CAD FILE: 18003065SP-02-OEC.DWG

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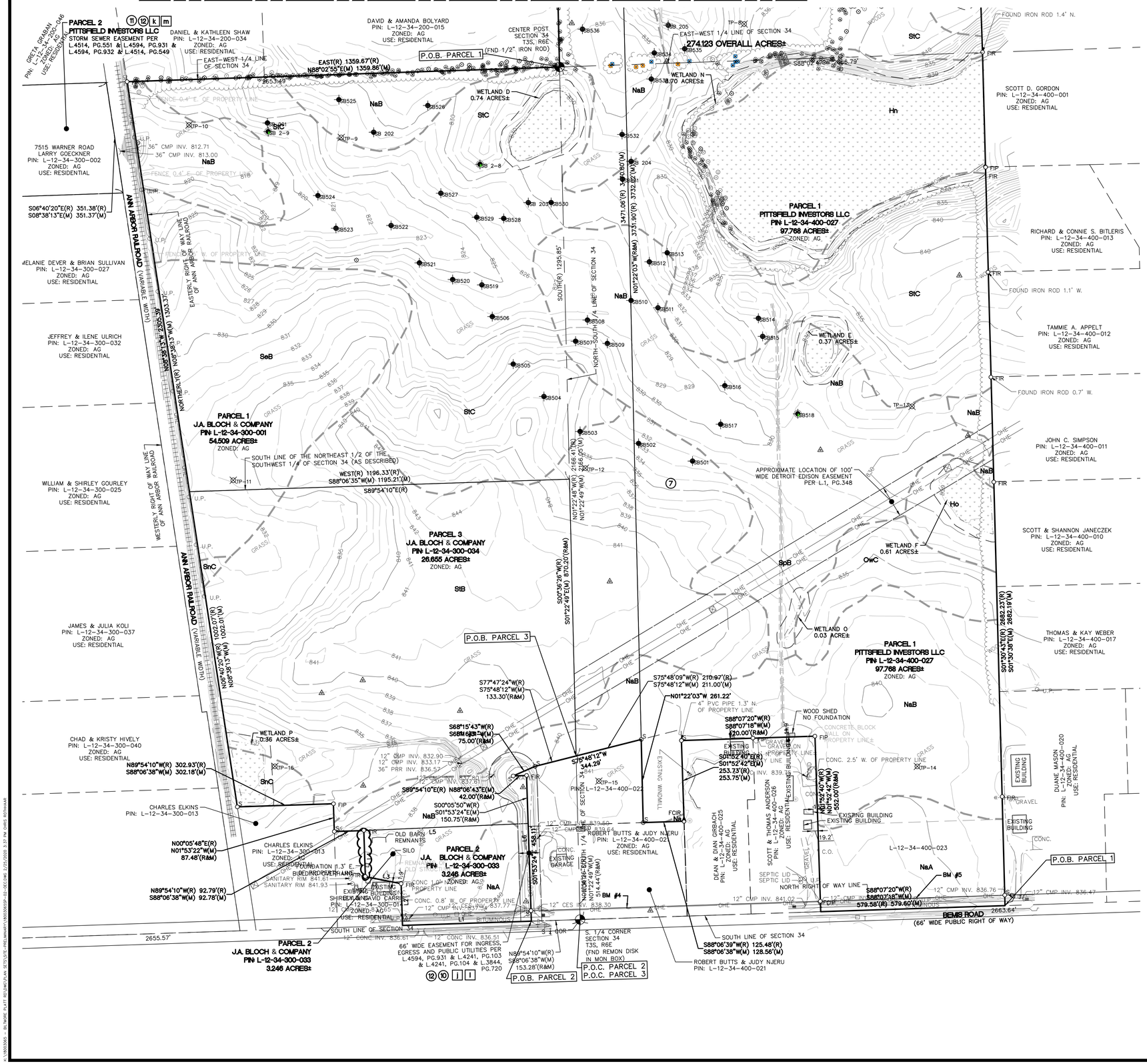
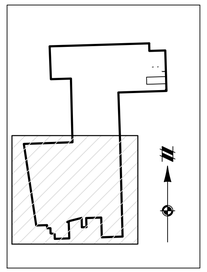
PRELIMINARY – NOT FOR CONSTRUCTION





VICINITY MAP
SCALE: 1" = 2000 FEET

SOIL TYPE

Map Symbol	Map Unit Name	Hydrologic Soil Group
BntaaB	Blount loam, 2 to 6 percent slopes	D
Hn	Houghton muck, disintegration moraine, 0 to 2 percent slopes	A/D
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OwB	Owosso-Miami complex, 2 to 6 percent slopes	C
OwC	Owosso-Miami complex, 6 to 12 percent slopes	C
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SeB	Seward loamy fine sand, 2 to 6 percent slopes	A
SfB	Seward sandy loam, loamy subsoil variant, 2 to 6 percent slopes	C/D
SnC	Sisson fine sandy loam, 6 to 12 percent slopes	B
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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

EXISTING CONDITIONS & DEMO PLAN – SOUTH

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 75 150
1" = 150 FEET
DR. SK CH. --
P.M. MB

JOB 18003065
SHEET NO. 03

CAD FILE: 18003065SP-02-DEC.DWG

PRELIMINARY - NOT FOR CONSTRUCTION

TEST PIT SOIL SUMMARY

Test pit	Depth to Sand	Approved Sand Formation
101	11	10-13 Med Brn Sand
102	8.5	8.5-11.5 Med Brn Sand
103	9.5	9.5-13.5 Med Brn Sand
104	9	9-12 Med Brn Sand
105	9.5	9.5-12.5 Med Brn Sand
106	13.5	13.5-16 Med Brn Sand
107	8	8-12 Med Brn Sand
108	10	10-14 Med Brn Sand
109	17	17-20 Med Brn Sand
110	NG	NG
111	19.5	19.5+ Med Brn Sand
112	17	17-20 Med Brn Sand
113	11	11-13.5 Med Brn Loamy Sand
114	12	12-15 Med Brn Loamy Sand
115	14	14-18 Med Brn Sand
116	8	8-12 Med Brn Sand
117	10	10-14 Med Brn Sand
118	10	10-14 Med Brn Sand
201	2	2-7 Brn Med Sand
202	8	8-12 Brn Med Sand
203	12	12-16 Brn Med Sand
204	2.5	2.5-6.5 Brn Med Sand
205	14	14-18 Brn Med Sand
206	9.5	9.5-11 Brn Med Sand
207	17.5	17.5-20 Brn Med Sand
208	5	5-9 Brn Med Sand
209	12	12-16 Brn Med Sand
210	11	11-15 Brn Med Sand
211	6	6-11.5 Brn Med Sand
212	8	8-12 Brn Med Sand
213	6	6-12 Brn Med Sand
214	9	9-13 Brn Med Sand
215	12	12-17.5 Brn Med Sand
216	NG	NG
217	8	8-12 Brn Med Sand
218	7	7-11 Brn Med Sand
219	10	10-14 Brn Med Sand
220	8.5	8.5-12 Brn Med Sand
221	NG	NG
222	13	13-17 Brn Med Sand
223	7.5	7.5-11.5 Brn Med Sand
224	NG	NG
225	NG	NG
226	7	7-11 Brn Med Sand
301	13.5	13.5-18 Brn Med-Fine Sand
302	11	11-15 Brn Med Fine Sand
303	12	12-16 Brn Med Sand
304	10	10-14 Brn Med Sand
305	12.5	12.5-16.5 Brn Med Sand
306	10.5	10.5-14.5 Lt Brn Med Sand
307	9.5	9.5-13 Brn Med Sand
308	11.5	11.5-15 Brn Med Sand
309	10.5	10.5-15 Brn Med Sand
310	8	8-12 Brn Med Sand
311	10	10-14 Brn Med Sand
312	7	7-11 Brn Fine-Med Sand
313	5	5-9 Lt Brn Med Sand
314	7	7-11 Brn Med-Fine Sand dry
315	7	7-13 Brn Med Sand
316	8	8-12 Brn Med Sand
317	10	10-14 Brn Med Sand
318	8	8-12.5 Brn Med Sand
319	7.5	7.5-12 Brn Med Sand
320	7	7-12 Brn Med Sand
321	7	7-11 Brn Med Sand
322	7	7-11.5 Brn Med Sand
323	8	8-13 Brn Med Sand
324	8	8-12 Brn Med Sand
325	11.5	11.5-15.5 Brn Med Sand
326	11	11-15 Brn Med Sand
327	10.5	10.5-15 Brn Med Sand
328	7	7-11 Lt Brn Med Sand
329	7	7-12 Lt Brn Med Sand
330	8.5	8.5-13+ Brn Med Sand
331	10.5	10.5-14.5 Brn Med Loamy Sand
332	11.5	11.5-15.5 Brn Med Sand
333	10	10-14+ Brn Med Sand
334	10	10-14 Brn Med Sand
335	10	10-14 Brn Med Sand
336	8.5	8.5-13+ Lt Brn Med Sand
337	9.5	9.5-14 Brn Med Sand
338	9	9-13.5 Brn Med Sand
339	8.5	8.5-13+ Lt Brn Med Sand
340	5.5	5.5-11 Brn Med Sand
341	NG	17.5-21.5 Brn Med Sand Saturated
342	NG	NG
343	14	14-18 Brn Med Sand
344	10	10-14 Brn Med Sand
345	10	10-14 Brn Med Sand
346	9	9-13 Brn Med Sand
347	8.5	8.5-12.5 Brn Med Sand
348	8.5	8.5-13 Brn Med Sand
349	7	7-11 Lt Brn Med Sand
350	7	7-11+ Lt Brn Med Sand
351	7	7-12+ Brn Med Sand
352	8.5	8.5-12.5 Brn Med Sand
353	10	10-14+ Brn Med Sand
354	12	12-16 Brn Med Sand
355	14.5	14.5-19 Brn Med Sand
356	14.5	14.5-18.5 Lt Brn Med Sand
357	16.5	16.5-21.5 Lt Brn Med Sand
358	15.5	15.5-20 Brn Med Sand
359	15.5	15.5-20 Brn Med Sand
360	16.5	16.5-21 Lt Brn Med Sand
361	15.5	15.5-20 Lt Brn Med Sand

Test pit	Depth to Sand	Approved Sand Formation
401	10	10-14 Brn Med Sand
402	10.5	10.5-15 Lt Brn Med Sand
403	11	11-15 Brn Med Sand
404	10	10-14+ Brn Med Sand
405	11	11-15 Brn Med Coarse Sand
406	7.5	7.5-11 Brn Med Sand (Loamy to Clean
407	8	8-12.5 Brn Med Sand (Lomay to Clear
408	8	8-12 Brn Med Sand
409	7	7-12 Brn Med Sand
410	10	10-14 Brn Med Sand
411	9	9-13 Brn Med Sand
412	12	12-16 Brn Med Sand
413	13	13-17 Brn Med Sand
414	13.5	13.5-18 Lt Brn Med Sand
415	NG	
416	NG	
417	6	6-10+ Lt Brn Med Sand
418	8	8-12 Lt Brn Med Sand
419	7.5	7.5-12 Lt Brn Med Sand
420	9	9-13+ Brn Med Sand
421	7.5	7.5-12 Lt Brn Med Sand
422	7	7-11+ Lt Brn Med Sand
423	5.5	5.5-10 Lt Brn Med Sand
424	4	4-8+ Lt Brn Med Sand
425	4.5	4.5-9 Lt Brn Med Sand
426	4	4-8+ Brn Med Sand
427	6	6-10 Lt Brn Med Sand
428	3	3-7 Brn Med Sand
429	NG	7-11 Brn Med Sand
430	10.5	10.5-14.5 Lt Brn Med Sand
431	8	8-12 Lt Brn Med Sand
432	14	14-18 Dull Brn Med Sand Damp
433	14	14-18 Dull Brn Med Sand Damp
434	NG	19-22 Dull Brn Med Sand Wet
435	15	15-19 Brn Med Sand Damp
436	15	15-19 Brn Med Sand
437	15	15-19 Brn Med Sand
438	12	12-16 Lt Brn Med Sand
439	12.5	12.5-17 Brn Med Sand Slightly Loamy, Damp @ Bottom
440	7.5	7.5-12+ Lt Brn Med Sand
441	10	10-14 Brn Med Sand
442	12	12-16 Lt Brn Med Sand
443	11	11-15 Lt Brn Med Sand
444	8.5	8.5-12.5 Lt Brn Med Sand
445	7.5	7.5-12 Lt Brn Med Sand
446	8	8-12 Lt Brn Med Sand
447	6	6-10 Lt Brn Med Sand
448	7.5	7.5-11.5+ Lt Brn Med Sand
449	6.5	6.5-10.5 Lt Brn Med Sand
450	NG	19.5+ Dull Brn Med Sand Wet
451	15.5	15.5-18.5+ Brn Med Sand
452	17	12-21+ Lt Brn Med Sand
453	12	12-16 Lt Brn Med Sand
454	18.5	18.5-22.5 Lt Brn Med Sand Mostly Dry (damp @ bottom)
455	18	18-21 Lt Brn Med Sand Mostly Dry
456	12	12-15+ Lt Brn Med Sand
457	5.5	12-16+ Lt Brn Med Sand
458	7	7-11 Lt Brn Med Sand
459	8	8-12 Lt Brn Med Sand
460	NG	10-? Lt Brn Med Sand
501	7	Dull lt brn med sand
502	6	Lt brn med
503	6	Lt brn med sand
504	7	Lt brn med
505	7	Lt brn med sand
506	7	Lt brn med sand
507	6	Lt brn med sand
508	12	Lt brn med sand
509	18	Brn fine-med sand
510	7	Lt brn med sand
511	5	Lt brn med sand
512	7	Lt brn med sand
513	4.5	Lt brn med sand
514	8	Lt brn med Sand
515	7	Lt brn med Sand
516	7	Lt brn med Sand
517	13	Lt brn med Sand
518	6.5	Lt brn med Sand
519	12	Lt brn med Sand
520	12	Lt brn med Sand
521	6	Lt brn med sand
522	9	Lt brn med sand
523	7.5	Lt brn med sand
524	5	Lt brn med sand
525	9	Lt brn med sand
526	12	brn med sand
527	7	Lt brn med sand
528	12	Lt brn med sand
529	5	Lt brn med sand
530	15	Lt brn med sand
531	5	Lt brn med sand
532	5.5	Lt brn med sand
533	8	Lt brn med sand
534	13	Lt brn med sand
535	12.5	Lt brn med sand
536	13.5	Lt brn med sand
537	14.5	Lt brn med sand

EXHIBIT A – LEGAL DESCRIPTION PER COMMITMENT FOR TITLE INSURANCE, ISSUING AGENT: TITLE SOURCE, ISSUING OFFICE: FIDELITY NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NUMBER: 63996499, REVISION NUMBER: 2, COMMITMENT DATE: NOVEMBER 1, 2017:

LAND SITUATED IN THE CHARTER TOWNSHIP OF PITTSFIELD IN THE COUNTY OF WASHTENAW IN THE STATE OF MI

PARCEL 1:
PART OF THE EAST 1/2 SECTION 34, TOWN 3 SOUTH, RANGE 6 EAST, PITTSFIELD TOWNSHIP, WASHTENAW COUNTY, MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 34 SOUTH 88 DEGREES 07 MINUTES 20 SECONDS WEST ALONG THE SOUTH LINE OF SECTION 34 1327.20 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 88 DEGREES 07 MINUTES 20 SECONDS WEST 579.58 FEET; THENCE NORTH 01 DEGREE 52 MINUTES 40 SECONDS WEST 552.00 FEET; THENCE SOUTH 88 DEGREES 07 MINUTES 20 SECONDS WEST 420.00 FEET; THENCE SOUTH 01 DEGREE 52 MINUTES 40 SECONDS EAST 253.73 FEET; THENCE SOUTH 88 DEGREES 06 MINUTES 39 SECONDS WEST 125.48 FEET; THENCE NORTH 01 DEGREE 22 MINUTES 03 SECONDS WEST 3731.90 FEET; THENCE NORTH 88 DEGREES 09 MINUTES 43 SECONDS EAST 1123.40 FEET; THENCE SOUTH 01 DEGREE 31 MINUTES 22 SECONDS EAST 1347.09 FEET; THENCE SOUTH 88 DEGREES 02 MINUTES 41 SECONDS WEST 3.00 FEET; THENCE SOUTH 01 DEGREE 30 MINUTES 43 SECONDS EAST 2682.23 FEET TO THE POINT OF BEGINNING.
BEING SUBJECT TO THE RIGHTS OF THE PUBLIC IN BEMIS ROAD AND ANY OTHER EASEMENTS OR RESTRICTIONS OF RECORD.

PARCEL 2:
TOGETHER WITH A NON-EXCLUSIVE PERPETUAL EASEMENT FOR THE CONSTRUCTION OPERATION, MAINTENANCE, REPAIR AND REPLACEMENT OF A STORM SEWER DETENTIONS AND RETENTION POND OVER PROPERTY SITUATED IN PITTSFIELD TOWNSHIP, WASHTENAW COUNTY, MICHIGAN IN THE SOUTHWEST 1/4 OF SECTION 34, TOWN 3 SOUTH, RANGE 6 EAST, MORE PARTICULARLY DESCRIBED AS BEGINNING AT A POINT ON THE EAST-WEST 1/4 OF SAID SECTION 34 THAT IS 527.5 FEET, SOUTH 89 DEGREES 58 MINUTES 30 SECONDS EAST MEASURED ALONG SAID EAST-WEST 1/4 LINE OF THE WEST 1/4 CORNER OF SAID SECTION 34; THENCE CONTINUING SOUTH 89 DEGREES 58 MINUTES 30 SECONDS EAST 699.92 FEET TO THE WEST LINE OF THE PROPERTY OWNED BY THE ANN ARBOR RAILROAD; THENCE SOUTH 06 DEGREES 40 MINUTES 20 SECONDS EAST 351.38 FEET; THENCE NORTH 89 DEGREES 58 MINUTES 30 SECONDS WEST 715 FEET; THENCE NORTH 04 DEGREES 13 MINUTES 09 SECONDS WEST 349.94 FEET TO THE PLACE OF BEGINNING AND A TEMPORARY EASEMENT FOR INGRESS AND EGRESS OVER AND ACROSS FOR THE PURPOSES OF BRINGING EQUIPMENT, MATERIALS AND LABOR TO THE EASEMENT PROPERTY TO CONSTRUCT, OPERATE, MAINTAIN REPAIR AND REPLACE THE STORM SEWER DETENTION AND RETENTION PONDS ON THE EASEMENT PROPERTY OVER PROPERTY DESCRIBED AS: BEGINNING AT THE WEST 1/4 CORNER OF SECTION 34, TOWN 3 SOUTH, RANGE 6 EAST, PITTSFIELD TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; THENCE SOUTH 89 DEGREES 58 MINUTES 30 SECONDS EAST 1227.42 FEET ALONG THE EAST AND WEST 1/4 LINE OF SAID SECTION TO A POINT ON THE WESTERLY RIGHT OF WAY LINE OF THE ANN ARBOR RAILROAD; THENCE SOUTH 06 DEGREES 40 MINUTES 20 SECONDS EAST 351.38 FEET ALONG SAID RIGHT OF WAY LINE; THENCE NORTH 89 DEGREES 58 MINUTES 30 SECONDS WEST 1272.17 FEET; THENCE NORTH 00 DEGREES 38 MINUTES 40 SECONDS EAST 349.00 FEET ALONG THE WEST LINE OF SAID SECTION AND THE CENTERLINE OF WARNER ROAD TO THE POINT OF BEGINNING, SAID PARCEL BEING A PART OF THE SOUTHWEST 1/4 OF SECTION 34, TOWN 3 SOUTH, RANGE 6 EAST, PITTSFIELD TOWNSHIP, WASHTENAW COUNTY, MICHIGAN, AS IS SET FORTH IN GRANT OF EASEMENT RECORDED IN LIBER 4594, PAGE 931, AND ASSIGNMENT OF GRANT OF EASEMENT RECORDED IN LIBER 4594, PAGE 932, WASHTENAW COUNTY RECORDS.
***NOTE: PARCEL 1 DESCRIPTION MATHEMATICALLY MISCLOSES BY 3.1 FEET**

SCHEDULE B – PART II (EXCEPTIONS) PER COMMITMENT FOR TITLE INSURANCE, ISSUING AGENT: TITLE SOURCE, ISSUING OFFICE: FIDELITY NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NUMBER: 63996499, REVISION NUMBER: 2, COMMITMENT DATE: NOVEMBER 1, 2017:

(7) 7. EASEMENT FOR TOWER LINES IN LIBER 1, PAGE 348. (AS TO PARCEL 1)
RESPONSE: COVERS PARCEL 1 AND ADDITIONAL LAND, ROUTE APPROXIMATELY AS SHOWN HEREON.

8. RIGHT-OF-WAY IN FAVOR OF WASHTENAW COUNTY DRAIN COMMISSIONER RECORDED IN LIBER 930, PAGE 390. (AS TO PARCEL 2)
RESPONSE: DOCUMENT COVERS LAND IN YPSILANTI TOWNSHIP.

9. AGREEMENT TO VACATE CERTAIN EASEMENTS OF INGRESS AND EGRESS AND REMOVE SURVEYS FILED WITH SAID EASEMENTS RECORDED DECEMBER 31, 1998 IN LIBER 3838, PAGE 73.
RESPONSE: COVERS PARCEL 1 AND LAND TO SOUTH AND WEST.

(10) 10. DECLARATION OF RESTRICTIVE COVENANTS AND AGREEMENT TO MAINTAIN PRIVATE ROAD DATED DECEMBER 3, 1998 AND RECORDED JANUARY 27, 1999 IN LIBER 3844, PAGE 720. (AS TO PARCEL 1)
RESPONSE: EXHIBIT A COVERS PARCEL 1 AND LAND TO WEST, EXHIBIT B COVERS LAND TO SOUTH OF PARCEL 1, EXHIBIT C EASEMENT AS SHOWN HEREON.

(11) 11. MEMORANDUM OF OPTION AGREEMENT AND DEVELOPMENT AGREEMENT BY AND BETWEEN J. A. BLOCK AND COMPANY, A MICHIGAN CORPORATION, AND PITTSFIELD INVESTORS LLC A MICHIGAN LIMITED LIABILITY COMPANY DATED AUGUST 15, 2005 AND RECORDED OCTOBER 14, 2005 IN LIBER 4514, PAGE 551.
RESPONSE: EXHIBIT A COVERS PARCEL 1, EXHIBIT B PARCEL B COVERS LAND TO WEST, EXHIBIT B EASEMENTS AS SHOWN HEREON.

(12) 12. SUBJECT TO THE TERMS AND CONDITIONS OF A CERTAIN GRANT OF EASEMENT AS RECORDED IN LIBER 4594, PAGE 931, WASHTENAW COUNTY RECORDS, AND AN ASSIGNMENT OF GRANT OF EASEMENT RECORDED IN LIBER 4594, PAGE 932, WASHTENAW COUNTY RECORDS.
RESPONSE: L.4594, PG.931 EXHIBIT A AS SHOWN HEREON, EXHIBIT B PARCEL A COVERS PARCEL 1, EXHIBIT B PARCEL B COVERS LAND TO WEST OF PARCEL 1, EXHIBIT B EASEMENT AS SHOWN HEREON, EXHIBIT C ADJACENT PROPERTY AS SHOWN HEREON. L.4594, PG.932 REFERENCES L.4594, PG.931, EXHIBIT A AS SHOWN HEREON.

SCHEDULE C DESCRIPTION PER COMMITMENT FOR TITLE INSURANCE ISSUED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ISSUING OFFICE: CHIRCO TITLE AGENCY, INC., COMMITMENT NO.: C-153594 – REVISION NO. 1, COMMITMENT DATE: APRIL 4, 2019:

THE LAND IS DESCRIBED AS FOLLOWS:
PARCEL 1: COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 34, TOWN 3 SOUTH, RANGE 6 EAST; THENCE NORTH 88 DEGREES 38 MINUTES 10 SECONDS WEST 53.45 FEET ALONG THE NORTH LINE OF SAID SECTION TO THE POINT OF BEGINNING;
THENCE SOUTH 00 DEGREES 51 MINUTES 20 SECONDS WEST 920.00 FEET ALONG AN EXISTING FENCE LINE; THENCE NORTH 88 DEGREES 38 MINUTES 10 SECONDS WEST 520.83 FEET; THENCE NORTH 00 DEGREES 51 MINUTES 20 SECONDS EAST 920.00
FEET; THENCE SOUTH 88 DEGREES 38 MINUTES 10 SECONDS EAST 520.83 FEET ALONG THE NORTH LINE OF SAID SECTION TO POINT OF BEGINNING.
NOTE: ABOVE PROPERTY APPEARS TO BE LAND-LOCKED.

PARCEL 2: THE NORTH 1/2 OF THE NORTHEAST 1/4 OF SECTION 34, TOWN 3 SOUTH, RANGE 6 EAST, EXCEPTING THEREFROM LAND SOLD TO DAVID F. ANDERSON AND WIFE IN LIBER 476, PAGE 565, WASHTENAW COUNTY RECORDS.

SCHEDULE B, PART II EXCEPTIONS PER COMMITMENT FOR TITLE INSURANCE ISSUED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ISSUING OFFICE: CHIRCO TITLE AGENCY, INC., COMMITMENT NO.: C-153594 – REVISION NO. 1, COMMITMENT DATE: APRIL 4, 2019:

(12) 12. EASEMENT FOR RIGHT OF WAY TO GENERAL TELEPHONE COMPANY OF MICHIGAN AS RECORDED IN LIBER 1712, PAGE 508, WASHTENAW COUNTY RECORDS, AS TO PARCEL 2.
RESPONSE: COVERS PARCEL 2, EASEMENT AS SHOWN HEREON.

13. RELEASE OF RIGHT OF WAY AS RECORDED IN LIBER 935, PAGE 325, WASHTENAW COUNTY RECORDS, AS TO PARCEL 1.
RESPONSE: LOCATED IN SECTION 23.

(14) 14. RELEASE OF RIGHT OF WAY AS RECORDED IN LIBER 935, PAGE 384 AND LIBER 935, PAGE 387, WASHTENAW COUNTY RECORDS, AS TO PARCEL 2.
RESPONSE: AS SHOWN HEREON.

(15) 15. SURVEY BY ATWELL-HICKS, INC., JOB NO. 536-31, DATED 10/03/74, AS RECORDED IN LIBER 1493, PAGE 143, AS TO PART OF PARCEL 2.
RESPONSE: COVERS A PORTION OF PARCEL 2, AS SHOWN HEREON.

16. SURVEY BY WASHTENAW ENGINEERING CO. INC., JOB NO. 7088, DATED 07/20/71, AS RECORDED IN LIBER 1369, PAGE 381, WASHTENAW COUNTY RECORDS, AS TO PARCEL 1.
RESPONSE: COVERS PARCEL 1.

SCHEDULE C LEGAL DESCRIPTION PER COMMITMENT FOR TITLE INSURANCE ISSUED BY CHIRCO TITLE AGENCY, INC., AN AGENCY FOR FIDELITY NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NO.: C-148512 REVISION 1, EFFECTIVE DATE: DECEMBER 29, 2017:

THE LAND REFERRED TO IN THIS COMMITMENT IS DESCRIBED AS FOLLOWS:

PARCEL 1: PART OF SW 1/4 SECTION 34, T3S, R6E. BEGINNING AT CENTER OF SECTION 34; THENCE SOUTH IN NORTH AND SOUTH 1/4 LINE TO SE CORNER OF THE NE 1/4 OF SW 1/4; THENCE WEST 1196.33 FEET IN SOUTH LINE OF NE 1/4 OF SW 1/4 TO THE EAST LINE OF ANN ARBOR RAILROAD; THENCE NORTHERLY ALONG THE EAST LINE OF RAILROAD TO THE EAST AND WEST 1/4 LINE; THENCE EAST 1359.67 FEET TO THE POINT OF BEGINNING. ALSO BEGINNING AT CENTER SECTION 34; THENCE NORTH 01 DEGREES 22 MINUTES 03 SECONDS WEST 1349.84 FEET; THENCE NORTH 88 DEGREES 09 MINUTES 43 SECONDS EAST 206.19 FEET; THENCE SOUTH 01 DEGREE 22 MINUTES 03 SECONDS EAST 3471.06 FEET; THENCE SOUTH 75 DEGREES 48 MINUTES 09 SECONDS WEST 210.97 FEET; THENCE NORTH 01 DEGREE 22 MINUTES 48 SECONDS WEST 2166.41 FEET TO THE POINT OF BEGINNING.
NOTE: THE ABOVE LEGAL DESCRIPTION APPEARS TO BE INCOMPLETE.

PARCEL 2: PART OF S 1/2 SECTION 34, T3S, R6E. COMMENCING AT SOUTH 1/4 CORNER OF SECTION 34; THENCE NORTH 89 DEGREES 54 MINUTES 10 SECONDS WEST 153.28 FEET TO POINT OF BEGINNING; THENCE CONTINUING NORTH 89 DEGREES 54
MINUTES 10 SECONDS WEST 405.20 FEET; THENCE NORTH 00 DEGREES 05 MINUTES 50 SECONDS EAST 131.45 FEET; THENCE NORTH 77 DEGREES 00 MINUTES 42 SECONDS WEST 114.61 FEET; THENCE NORTH 00 DEGREES 05 MINUTES 38 SECONDS EAST 145.00 FEET; THENCE NORTH 89 DEGREES 30 MINUTES 19 SECONDS EAST 516.96 FEET; THENCE SOUTH 00 DEGREES 05 MINUTES 50 SECONDS WEST 307.36 FEET TO POINT OF BEGINNING.

PARCEL 3: PART OF SW 1/4 SECTION 34, T3S, R6E. COMMENCING AT SOUTH 1/4 CORNER OF SECTION 34; THENCE NORTH 00 DEGREES 36 MINUTES 26 SECONDS EAST 514.44 FEET ALONG SOUTH LINE SECTION TO POINT OF BEGINNING; THENCE SOUTH 77 DEGREES 47 MINUTES 24 SECONDS WEST 133.30 FEET; THENCE SOUTH 68 DEGREES 15 MINUTES 43 SECONDS WEST 75.00 FEET; THENCE SOUTH 89 DEGREES 54 MINUTES 10 SECONDS EAST 42.00 FEET; THENCE SOUTH 00 DEGREES 05 MINUTES 50 SECONDS WEST 150.75 FEET; THENCE SOUTH 89 DEGREES 30 MINUTES 19 SECONDS WEST 516.96 FEET; THENCE NORTH 89 DEGREES 54 MINUTES 10 WEST 92.79 FEET; THENCE NORTH 00 DEGREES 05 MINUTES 48 SECONDS EAST 87.48 FEET; THENCE NORTH 89 DEGREES 54 MINUTES 10 WEST 302.93 FEET; THENCE NORTH 06 DEGREES 40 MINUTES 20 SECONDS WEST 1002.07 FEET; THENCE SOUTH 89 DEGREES 54 MINUTES 10 SECONDS EAST 1196.33 FEET; THENCE SOUTH 00 DEGREES 36 MINUTES 26 SECONDS WEST 870.20 FEET TO THE POINT OF BEGINNING.

SCHEDULE B PER COMMITMENT FOR TITLE INSURANCE ISSUED BY CHIRCO TITLE AGENCY, INC., AN AGENCY FOR FIDELITY NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NO.: C-148512 REVISION 1, EFFECTIVE DATE: DECEMBER 29, 2017:

[j] j. EASEMENT FOR INGRESS AND EGRESS AND PUBLIC UTILITIES AS EVIDENCED IN QUIT CLAIM DEED RECORDED IN LIBER 4241, PAGE 103 AND LIBER 4241, PAGE 104, WASHTENAW COUNTY RECORDS.
RESPONSE: COVERS PARCELS 1, 2 & 3 AND LAND TO EAST, EXHIBIT C EASEMENT AS SHOWN HEREON.

[k] k. EASEMENT FOR DRAIN SYSTEM AS EVIDENCED IN FIDUCIARY DEED RECORDED IN LIBER 4514, PAGE 549, WASHTENAW COUNTY RECORDS.
RESPONSE: EXHIBIT A PARCEL A COVERS LAND TO EAST OF PARCEL 1, EXHIBIT A PARCEL B COVERS PARCELS 1, 2 & 3 AND ADDITIONAL LAND, EXHIBIT A EASEMENTS AS SHOWN HEREON.

[l] l. DECLARATION OF RESTRICTIVE COVENANT AND AGREEMENT TO MAINTAIN PRIVATE ROAD AS RECORDED IN LIBER 3844, PAGE 720, WASHTENAW COUNTY RECORDS.
RESPONSE: EXHIBIT A COVERS PARCELS 1, 2 & 3 AND LAND TO EAST, EXHIBIT B PARCEL 1 COVERS LAND TO EAST OF PARCEL 2, EXHIBIT C EASEMENT AS SHOWN HEREON.

[m] m. MEMORANDUM OF OPTION AGREEMENT AND DEVELOPMENT AGREEMENT RECORDED IN LIBER 4514, PAGE 551, WASHTENAW COUNTY RECORDS.
RESPONSE: EXHIBIT A PARCEL A COVERS LAND TO EAST OF PARCEL 1, EXHIBIT B PARCEL B COVERS PARCELS 1, 2 & 3 AND ADDITIONAL LAND, EXHIBIT B EASEMENTS AS SHOWN HEREON.

811
Know what's **below.**
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

LEGAL DESCRIPTION &
TEST PIT SUMMARY TABLE

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 -- --
AS NOTED

DR. SK | CH. --
P.M. MB

JOB 18003065
SHEET NO.
04

CAD FILE: 18003065SP-02-OEC.DWG

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PRELIMINARY - NOT FOR CONSTRUCTION

DESCRIPTION OF NATURAL FEATURES (BY OTHERS)

WETLANDS, WATERCOURSES, AND FLOODPLAINS
ASTI ENVIRONMENTAL (ASTI) INVESTIGATED THE 261+/–ACRE PROPERTY FOR THE PRESENCE OF LAKES, PONDS, WETLANDS, AND WATERCOURSES ON MARCH 6 AND 7, 2019. THIS WORK IS BASED ON MCL 324 PART 301, INLAND LAKES AND STREAMS AND PART 303, WETLANDS PROTECTION, AND THE PITTSFIELD TOWNSHIP WETLANDS ORDINANCE, PITTSFIELD CHARTER TOWNSHIP, MICHIGAN, CODE OF ORDINANCES, ARTICLE IV. WETLANDS, SEC. 8–200.

THE DELINEATION PROTOCOL USED BY ASTI FOR THIS DELINEATION IS BASED ON THE US ARMY CORPS OF ENGINEERS' WETLAND DELINEATION MANUAL, 1987, THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEER WETLAND DELINEATION MANUAL: MIDWEST REGION, AND RELATED GUIDANCE/DOCUMENTS, AS APPROPRIATE. WETLAND VEGETATION, HYDROLOGY, AND SOILS WERE USED TO LOCATE THE WETLAND BOUNDARIES.

FIFTEEN WETLANDS, ONE POND, AND ONE WATERCOURSE WERE FOUND ON THE PROPERTY. WETLAND, POND, AND WATERCOURSE BOUNDARIES WERE LOCATED USING A PROFESSIONAL GRADE, HAND–HELD GLOBAL POSITIONING SYSTEM UNIT (GPS) SIMULTANEOUS TO WETLAND DELINEATION ACTIVITIES.

WATERCOURSES
ONE WATERCOURSE, THE WARNER DRAIN, EXISTS ON THE PROPERTY. APPROXIMATELY 1,100 LINEAL FEET OF THE WARNER DRAIN TRAVERSES THE NORTHWEST CORNER OF THE PROPERTY. AT THE TIME OF THE WETLAND DELINEATION ACTIVITIES, THE DRAIN WAS FROZEN AND COVERED WITH SNOW. IT APPEARED THAT THE DRAIN CHANNEL WAS APPROXIMATELY 10 TO 12 FEET WIDE WITH APPROXIMATELY ONE TO TWO FEET OF WATER. THE WARNER DRAIN EXHIBITED DEFINED BED AND BANKS AND OCCURRENCE OF FLOW AND THUS, MEETS THE DEFINITION OF A REGULATED STREAM UNDER PART 301 AND THE TOWNSHIP ORDINANCE.

WETLAND A
WETLAND A IS A FORESTED WETLAND 2.23 ACRES IN SIZE ON THE PROPERTY LOCATED IN THE NORTHWESTERN PORTION OF THE PROPERTY. VEGETATION WITHIN WETLAND A WAS DOMINATED BY SILVER MAPLE (ACER SACCHARINUM), AMERICAN ELM (ULMUS AMERICANA), AND BOX ELDER (ACER NEGUNDO). IT IS ASTI'S OPINION THAT WETLAND A IS REGULATED BY THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE) UNDER PART 303 AND BY THE PITTSFIELD TOWNSHIP WETLAND ORDINANCE BECAUSE IT IS DIRECTLY CONNECTED TO THE WARNER DRAIN, A REGULATED STREAM.

POND B
POND B IS A FORMER GRAVEL EXTRACTION AREA 3.66 ACRES IN SIZE THAT IS LOCATED IN THE NORTHWEST PORTION OF THE PROPERTY. POND B EXHIBITED VERY LITTLE TO NO WETLAND VEGETATION ALONG ITS SHORELINE. DOMINANT VEGETATION WITHIN THE UPLAND ADJACENT TO POND B INCLUDED RED PINE (PINUS STROBUS), AUTUMN OLIVE (ELAEAGNUS UMBELLATA), GLOSSY BUCKTHORN (FRANGULA ALNUS), SMOOTH BROME (BROMUS INERMIS), AND RED RASPBERRY (RUBUS IDEAUS). IT IS ASTI'S OPINION THAT POND B IS REGULATED BY THE DEQ AND BY PITTSFIELD TOWNSHIP BECAUSE IT EXHIBITS AN AREA OF PERMANENT OPEN WATER GREATER THAN ONE ACRE, BUT LESS THAN FIVE ACRES IN SIZE; THUS MEETING THE DEFINITION OF A POND UNDER PART 303 AND THE TOWNSHIP WETLAND ORDINANCE. POND B IS ALSO REGULATED BECAUSE IT IS WITHIN 500 FEET OF THE WARNER DRAIN, A REGULATED STREAM.

WETLAND C
WETLAND C IS SCRUB/SHRUB WETLAND 3.65 ACRES IN SIZE ON THE PROPERTY LOCATED IN THE NORTHEASTERN PORTION OF THE PROPERTY. WETLAND C CONTINUES OFF–SITE TO THE NORTH. VEGETATION WITHIN WETLAND C WAS DOMINATED BY GLOSSY BUCKTHORN, SILKY DOGWOOD (CORNUS AMOMUM), AND BUTTONBUSH (CEPHALANTHUS OCCIDENTALIS). WETLAND C ALSO EXHIBITED AN AREA OF PERMANENT OPEN WATER IN ITS SOUTHERN PORTION. IT IS ASTI'S OPINION THAT WETLAND C IS REGULATED BY EGLE UNDER PART 303 AND BY PITTSFIELD TOWNSHIP BECAUSE IT IS A PORTION OF A LARGER WETLAND COMPLEX THAT IS GREATER THAN FIVE ACRES IN SIZE AND BECAUSE IT INCLUDES AN AREA OF PERMANENT OPEN WATER GREATER THAN ONE ACRE IN SIZE, WHICH MEETS THE DEFINITION OF A POND UNDER PART 303 AND THE TOWNSHIP WETLAND ORDINANCE.

WETLANDS D, E, F, G, H, O, AND P
WETLANDS D, E, F, G, H, O, AND P ARE SIMILAR IN CHARACTER AND THUS, ARE DISCUSSED TOGETHER FOR THE PURPOSES OF THIS REPORT. WETLANDS D (0.74 ACRES), E (0.37 ACRES), F (0.61 ACRES ON–SITE), G (0.25 ACRES), H (0.08 ACRES ON–SITE), O (0.03 ACRES), AND P (0.36 ACRES) ARE ALL EMERGENT WETLANDS (SEE FIGURE 1). DOMINANT VEGETATION WITHIN THESE WETLANDS WAS DOMINATED BY REED CANARY GRASS (PHALARIS ARUNDINACEA) AND CATTAIL (TYPHA ANGUSTIFOLIA). IT IS ASTI'S OPINION THAT WETLANDS D, E, F, G, H, O, AND P ARE NOT REGULATED BY EGLE UNDER PART 303 BECAUSE THEY ARE ALL LESS THAN ONE ACRE IN SIZE AND ARE NOT WITHIN 500 FEET OF AN INLAND LAKE OR STREAM AS DEFINED BY PART 301 (ISOLATED/NOT CONTIGUOUS).

WITH REGARD TO TOWNSHIP REGULATION, WETLAND O IS ISOLATED AND LESS THAN 0.2 ACRES AND THEREFORE, IS NOT REGULATED BY THE TOWNSHIP. WETLANDS G AND H ARE LOCATED WITHIN 100 FEET OF EACH OTHER AND COLLECTIVELY, EXCEED 0.2 ACRES. THE REMAINING WETLANDS ARE GREATER THAN 0.2 ACRES BUT LESS THAN TWO ACRES. ALL HAVE BEEN IMPACTED BY HISTORIC AND ON–GOING AGRICULTURAL USE. AS A RESULT, IT IS ASTI'S OPINION THAT THESE WETLANDS WILL NOT BE CONSIDERED ESSENTIAL TO THE TOWNSHIP AS THEY ARE DOMINATED BY INVASIVE SPECIES.

WETLANDS I, J, AND K
WETLANDS I, J, AND K ARE SIMILAR IN CHARACTER AND THUS, ARE DISCUSSED TOGETHER FOR THE PURPOSES OF THIS REPORT. WETLANDS I (0.04 ACRES), J (0.01 ACRES), AND K (0.02 ACRES) ARE FORESTED WETLANDS LOCATED IN THE EAST–CENTRAL PORTION OF THE PROPERTY. VEGETATION WITHIN THESE WETLANDS WAS SPARSE AND DOMINATED BY AMERICAN ELM. IT IS ASTI'S OPINION THAT WETLANDS I, J, AND K ARE NOT REGULATED BY EGLE BECAUSE THEY ARE ALL LESS ONE ACRE IN SIZE AND ARE NOT WITHIN 500 FEET OF AN INLAND LAKE OR STREAM AS DEFINED BY PART 301. WITH REGARD TO TOWNSHIP REGULATORY AUTHORITY, IT IS ASTI'S OPINION THAT WETLANDS I, J, AND K ARE NOT LIKELY REGULATED BY THE TOWNSHIP BECAUSE INDIVIDUALLY AND COLLECTIVELY, THESE WETLANDS TOTAL LESS THE 0.2 ACRES IN SIZE.

WETLAND L
WETLAND L IS AN EMERGENT AND FORESTED WETLAND 4.16 ACRES IN SIZE LOCATED IN THE WEST CENTRAL PORTION OF THE PROPERTY. VEGETATION WITHIN THE EMERGENT PORTION OF WETLAND L WAS DOMINATED BY CATTAIL, REED CANARY GRASS, AND PHRAGMITES (PHRAGMITES AUSTRALIS). VEGETATION WITHIN THE FORESTED PORTION OF WETLAND L WAS DOMINATED BY BLACK WILLOW (SALIX NIGRA) AND PIN OAK (QUERCUS PALUSTRIS). IT IS ASTI'S OPINION THAT WETLAND L IS NOT REGULATED BY EGLE UNDER PART 303 BECAUSE IT IS LESS THAN FIVE ACRES IN SIZE AND IS NOT WITHIN 500 FEET OF AN INLAND LAKE OR STREAM AS DEFINED BY PART 301. HOWEVER, IT IS ASTI'S OPINION THAT WETLAND L IS REGULATED BY PITTSFIELD TOWNSHIP BECAUSE IT IS GREATER THAN TWO ACRES IN SIZE.

WETLAND M
WETLAND M IS AN EMERGENT, SCRUB/SHRUB, AND FORESTED WETLAND 2.29 ACRES IN SIZE ON THE PROPERTY, LOCATED IN THE WEST CENTRAL PORTION OF THE PROPERTY. VEGETATION WITHIN THE EMERGENT PORTION OF WETLAND M WAS DOMINATED BY REED CANARY GRASS AND CATTAIL. VEGETATION WITHIN THE FORESTED PORTION OF WETLAND M WAS DOMINATED BY BLACK WILLOW AND AMERICAN ELM. IT IS ASTI'S OPINION THAT WETLAND M IS NOT REGULATED BY EGLE UNDER PART 303 BECAUSE IT IS LESS THAN FIVE ACRES IN SIZE AND IS NOT WITHIN 500 FEET OF AN INLAND LAKE OR STREAM AS DEFINED BY PART 301. HOWEVER, IT IS ASTI'S OPINION THAT WETLAND M IS REGULATED BY PITTSFIELD TOWNSHIP BECAUSE IT IS GREATER THAN TWO ACRES IN SIZE.

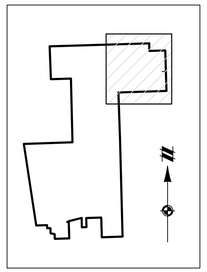
WETLAND N
WETLAND N IS A SCRUB/SHRUB WETLAND 8.70 ACRES IN SIZE ON THE PROPERTY LOCATED IN THE EAST CENTRAL PORTION OF THE PROPERTY. VEGETATION WITHIN WETLAND N WAS DOMINATED BY BUTTONBUSH WITH SUPPORTING SPECIES SUCH AS SILKY DOGWOOD, BLACK WILLOW, AND CATTAIL. IT IS ASTI'S OPINION THAT WETLAND N IS REGULATED BY THE EGLE UNDER PART 303 AND BY PITTSFIELD TOWNSHIP BECAUSE IT IS GREATER THAN FIVE ACRES IN SIZE.

SUMMARY
BASED UPON THE DATA, CRITERIA, AND EVIDENCE NOTED ABOVE, IT IS ASTI'S PROFESSIONAL OPINION THE PROPERTY INCLUDES FIVE WETLANDS, ONE POND, AND ONE WATERCOURSE REGULATED BY THE EGLE AND SEVEN WETLANDS, ONE POND, AND ONE WATERCOURSE REGULATED BY PITTSFIELD TOWNSHIP AS SUMMARIZED IN THE WETLANDS TABLE.

FLOODPLAINS
THERE IS MAPPED FLOODPLAIN ASSOCIATED WITH THE WARNER DRAIN PER FEMA MAP PANEL #26161C0415E. IF DRAINAGE AREA IS GREATER THAN TWO SQUARE MILES, THE WARNER DRAIN ALSO HAS AN EGLE REGULATED FLOODPLAIN.

GROUND WATER RECHARGE AREAS
ACCORDING TO THE USDA WEB SOIL SURVEY (WSS), THE MAJORITY OF THE PROPERTY IS UNDERLAIN BY CLAY AND CLAY LOAMS, SOIL TYPES NOT CONDUCIVE TO GROUND WATER RECHARGE. LIMITED AREAS OF SAND AND SANDY LOAMS ARE LOCATED IN THE FAR NORTHWEST CORNER OF THE PROPERTY, WEST OF THE WARNER DRAIN AND IN THE SOUTHWEST CORNER OF THE PROPERTY. A LARGER AREA OF LOAMY SAND IS LOCATED IN SOUTHEAST AREA OF THE PROPERTY. ALL THE WETLAND AREAS ARE UNDERLAIN BY CLAY SOILS WITH THE EXCEPTION OF WETLAND N, WHICH IS UNDERLAIN BY MUCK. ASTI DOES NOT BELIEVE THE PROPERTY REPRESENTS AN AREA OF GROUND WATER RECHARGE.

THREATENED AND ENDANGERED SPECIES HABITAT ASSESSMENT
A THREATENED AND ENDANGERED SPECIES HABITAT ASSESSMENT WAS PREFORMED BY ATWELL. THE SITE DOES NOT CONTAIN ANY HABITAT THAT IS SUITABLE FOR THREATENED OR ENDANGERED SPECIES.



VICINITY MAP
SCALE: 1" = 2000 FEET

LEGEND

- BOUNDARY LINE
- EXIST. EASEMENT
- SECTION LINE
- BOUNDARY/PROPERTY LINE
- EXIST. SETBACK
- 890 — EXIST. CONTOUR
- EXIST. TREE LINE
- EXIST. CURB AND GUTTER
- X — X — EXIST. FENCE
- EXIST. GRAVEL
- EXIST. STRUCTURE
- EXIST. WALL
- EXIST. SOIL BOUNDARY
- MoC — EXIST. SOILS TYPE
- EXIST. BUILDING
- W — EXIST. WATER MAIN
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- G — EXIST. GAS
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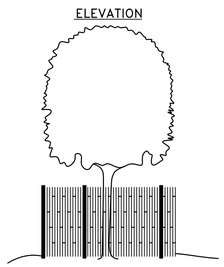
- STEEP SLOPES >19%
- PROP. SILTFENCE
- PROP. TREE PROTECTION
- PROP. TREE LINE DEMO
- 4315 — EXISTING TREE
- 4315 — EXISTING DEMO TREE
- 4317 — EXISTING HERITAGE TREE
- 4317 — EXISTING DEMO HERITAGE TREE
- 4316 — EXISTING REGULATED TREE
- 4316 — EXISTING DEMO REGULATED TREE

WETLAND IMPACT TABLE

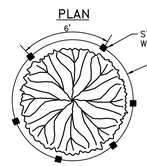
Natural Feature	Natural Feature Area (acre)	Buffer Area (acre)	Township * Regulated	MDEQ Regulated	Impact Area (acre)	Estimated Cut Impact Volume (cubic yards)	Estimated Fill Impact Volume (cubic yards)	Estimated Net Impact Volume (cubic yards)	Impacts to Wetland Buffer Area (SF)
Wetland A	2.23	2.84	Yes	Yes	0	-	-	-	3,929
Pond B	3.66	0.93	Yes	Yes	0	-	-	-	
Wetland C	3.65	1.52	Yes	Yes	0	-	-	-	
Wetland D	0.74	0.45	No	No	0	-	-	-	
Wetland E	0.37	0.33	No	No	0	-	-	-	242
Wetland F	0.61	0.32	No	No	0	-	-	-	1,938
Wetland G	0.25	0.29	No	No	0.25	337	552	215	
Wetland H	0.08	0.09	No	No	0	-	-	-	
Wetland I	0.04	0.16	No	No	0	-	-	-	
Wetland J	0.01	0.07	No	No	0	-	-	-	
Wetland K	0.02	0.12	Yes	No	0	-	-	-	
Wetland L	4.16	1.07	Yes	No	0	-	-	-	10,184
Wetland M	2.29	0.98	Yes	No	0	-	-	-	
Wetland N	8.70	1.35	Yes	Yes	0	-	-	-	
Wetland O	0.03	0.22	No	No	0	-	-	-	
Wetland P	0.36	0.27	No	No	0	-	-	-	
Warner Drain	N/A	N/A	Yes	Yes	0	-	-	-	
Total (MDEQ)	**18.24**	**6.64**	-	-	**0**	**0**	**0**	**0**	**3,929**
Total (TOWNSHIP)	**24.71**	**8.81**	-	-	**0**	**0**	**0**	**0**	**16,293**

*–REFER TO DESCRIPTION OF NATURAL FEATURES (BY OTHERS) FOR TOWNSHIP REGULATED WETLAND DESIGNATION

ELEVATION



PLAN



STANDARD STEEL OR WOODEN FENCE POST

STANDARD 48" HIGH SNOW OR CONSTRUCTION FENCE

FENCE SHALL BE LOCATED AT THE OUTER PERIMETER OF THE SPREAD OF THE BRANCHES (DRIP–LINE), OR CLOSER ONLY AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.

TREE PROTECTION NOTES:
1. ALL TREES TO BE REMOVED WILL BE IDENTIFIED BY RED FLAGGING.
2. TREE PROTECTION FENCING IS TO BE ERECTED PRIOR TO ANY EARTHWORK OR CONSTRUCTION AND IS TO REMAIN IN PLACE UNTIL CONSTRUCTION
3. ALL DEBRIS, FILL, EQUIPMENT OR IS COMPLETE. MATERIAL IS TO BE KEPT CLEAR OF AREA WITHIN PROTECTIVE FENCE. NO CLEANING OF EQUIPMENT,OR MATERIAL OR STORAGE OR DISPOSAL OF ANY MATERIAL WITHIN THE DRIP LINE OF ANY TREES TO BE SAVED.

TREE PROTECTION FENCE DETAIL
NO SCALE
NOTE: LOCATION TO BE PROVIDED IN FINAL SITE PLAN SUBMITTAL

TREE REMOVAL SUMMARY

	Regulated	Heritage	Totals
Trees Surveyed Onsite	--	--	2,337
Trees Removed Onsite	125	3	128
DBH Removed (in.)	1,243	71	1,314
Replacement Required (in.)	1,740	149	**1,889**

Note:
- Replacement for Regulated Tree = DBH Removed x 140%
- Replacement for Heritage Tree = DBH Removed x 140% x 150%
- Does not include diseased (poor) trees or trees within areas designated for buildings, structures, streets and driveways
-Required replacements include trees to remain on septic field expansion area"

811 Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

NATURAL FEATURES PROTECTION PLAN – AREA 1

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 50 100
1" = 100 FEET
DR. SK CH. --
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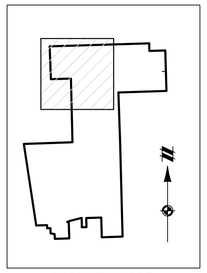

VICINITY MAP
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CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

NATURAL FEATURES
PROTECTION PLAN – AREA 2

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 50 100
1" = 100 FEET
DR. SK CH. --
P.M. MB

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SHEET NO.
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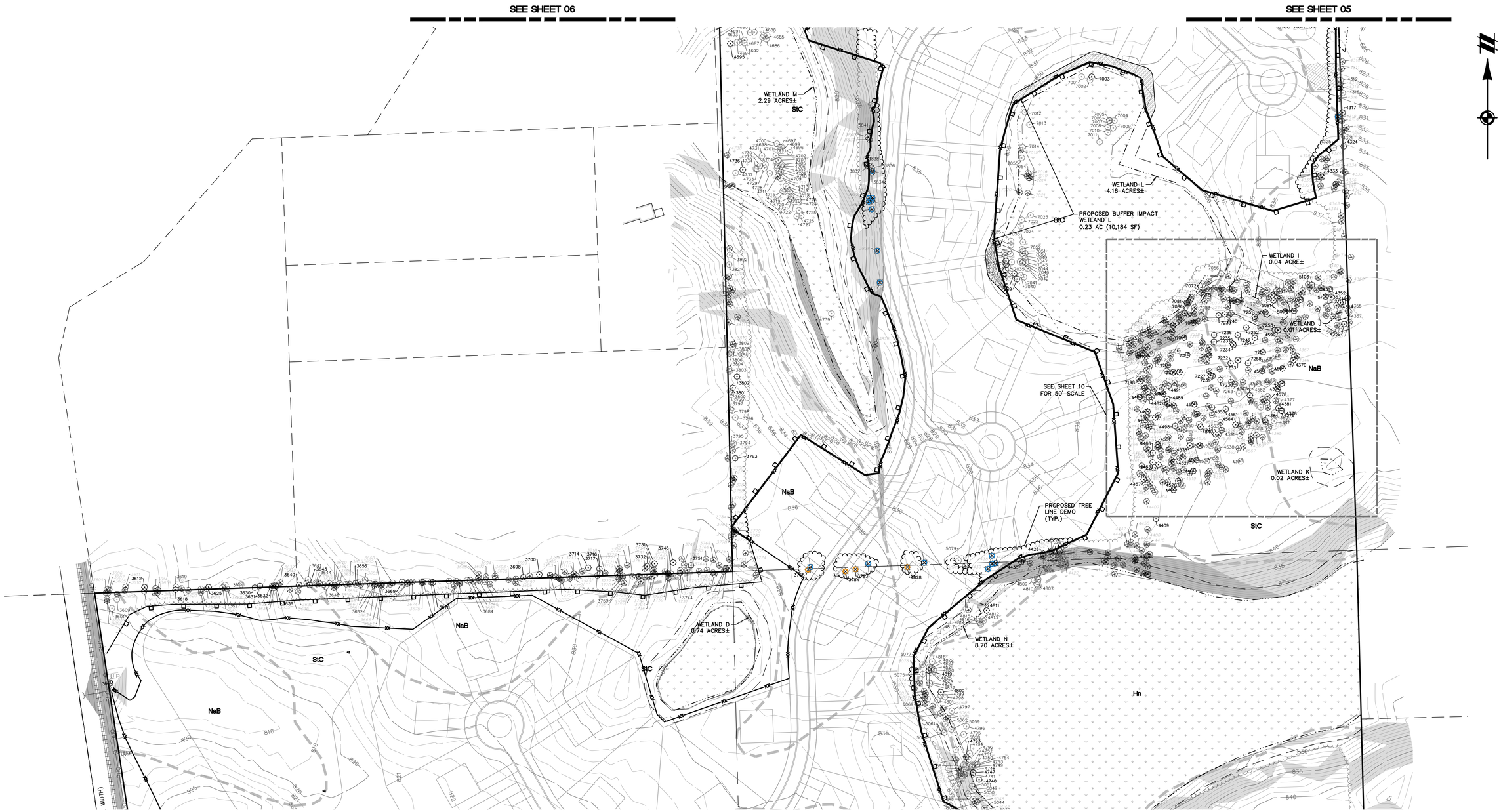

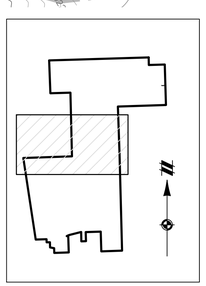

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

NATURAL FEATURES
PROTECTION PLAN – AREA 3

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

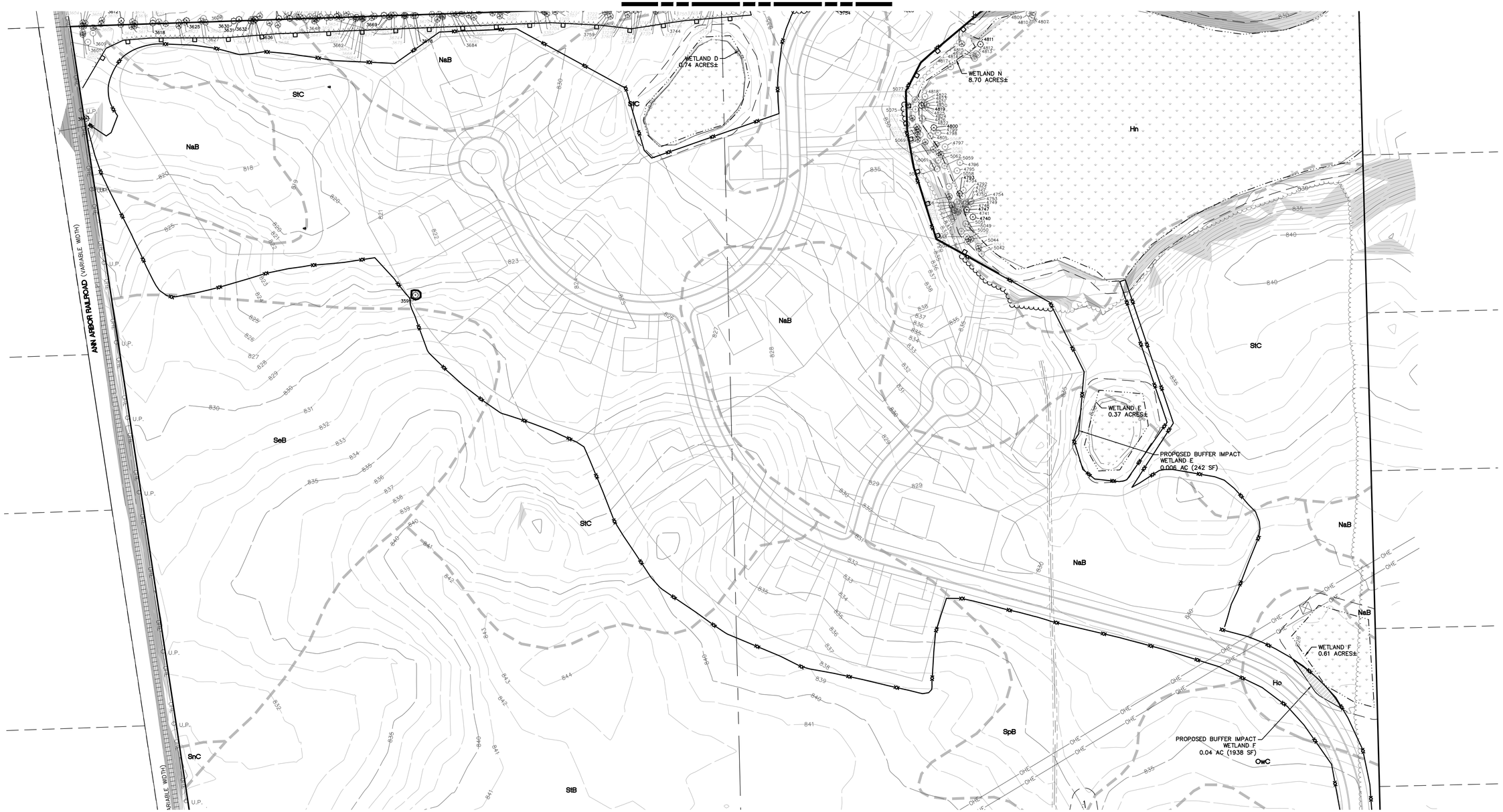
SCALE 0 50 100
1" = 100 FEET

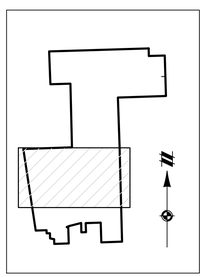
DR. SK CH. --
P.M. MB

JOB 18003065
SHEET NO. 07

CAD FILE: 18003065SP-03-NF.DWG

PRELIMINARY - NOT FOR CONSTRUCTION





VICINITY MAP
SCALE: 1" = 2000 FEET

LEGEND

- BOUNDARY LINE
- EXIST. EASEMENT
- SECTION LINE
- BOUNDARY/PROPERTY LINE
- EXIST. SETBACK
- 890 EXIST. CONTOUR
- EXIST. TREE LINE
- EXIST. CURB AND GUTTER
- EXIST. FENCE
- EXIST. GRAVEL
- EXIST. STRUCTURE
- EXIST. WALL
- EXIST. SOIL BOUNDARY
- MoC EXIST. SOILS TYPE
- EXIST. BUILDING
- 3533 EXIST. TREE
- 3529 EXIST. DEMO TREE
- W EXIST. WATER MAIN
- EXIST. SANITARY
- G EXIST. GAS
- C EXIST. STORM
- OHE EXIST. OVERHEAD ELEC. LINE
- OHT EXIST. OVERHEAD TELE. LINE
- TV EXIST. CABLE LINE
- U EXIST. UNSPECIFIED UTILITIES
- EXIST. FLOOD
- EXIST. CULVERT
- EXIST. CATCH BASIN/INLET
- EXIST. HYDRANT
- EXIST. VALVE
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- EXIST. WETLAND BUFFER
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- PROP. TREE LINE DEMO
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- 4315 EXISTING DEMO TREE
- 4317 EXISTING HERITAGE TREE
- 4317 EXISTING DEMO HERITAGE TREE
- 4316 EXISTING REGULATED TREE
- 4316 EXISTING DEMO REGULATED TREE

811
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BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

NATURAL FEATURES
PROTECTION PLAN – AREA 4

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 50 100
1" = 100 FEET
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SHEET NO.
08

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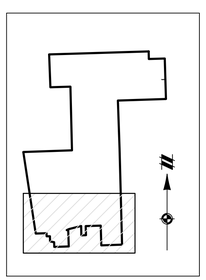
SEE SHEET 08



VICINITY MAP
SCALE: 1" = 2000 FEET

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PRELIMINARY SITE PLAN

NATURAL FEATURES
PROTECTION PLAN – AREA 5

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

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1" = 100 FEET
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09

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OPENSPACE PRESERVATION OPTION DEVELOPMENT REQUEST

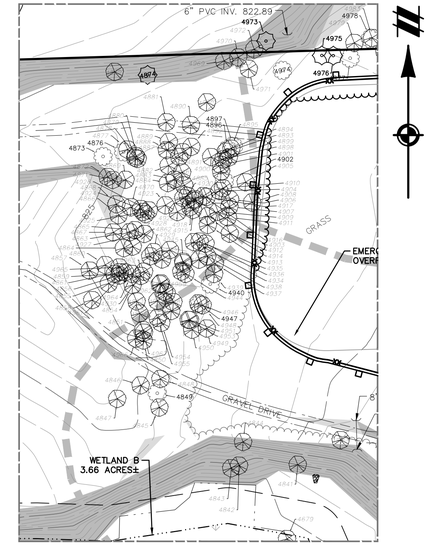
ELIGIBILITY OF PROPERTY

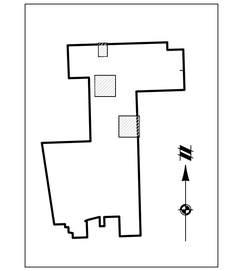
- CURRENT PARCEL IS ZONED AG AGRICULTURAL
- PARCEL AREA GREATER THAN 5 ACRES
- PARCELS WILL BE UNDER SINGLE OWNERSHIP
- PARENT PARCEL AND CONDO LOTS NOT DEPENDENT ON PUBLIC WATER OR SANITARY SEWER SERVICES
- MEETS THE PROVISIONS OF SECTION 7.02 I FOR PARENT LOT AREA WITH MORE THAN 50% OPEN SPACE

1. COMPATIBILITY WITH ADJACENT USES: THE PROPOSED OSPDO RESIDENTIAL NEIGHBORHOOD IS COMPATIBLE WITH THE ZONING OF THE ADJACENT PROPERTIES AND THE EXISTING SURROUNDING USES. THE PROPERTY FRONTS ON AN ALL–SEASON, PAVED, COUNTY ROAD WITH GOOD VISIBILITY AND ACCESS. THE PROPOSED DEVELOPMENT HAS EASY ACCESS TO SERVICES AND SCHOOLS LOCATED WITHIN APPROXIMATELY 3 MILES OF THE SALINE CITY LIMITS. THE ADJACENT USES ARE AGRICULTURE.
2. COMPATIBILITY WITH THE MASTER PLAN: THE CURRENT PITTSFIELD TOWNSHIP MASTER PLAN HAS INDICATED THAT THIS PROPERTY IS IDENTIFIED AND PLANNED FOR RURAL RESIDENTIAL (R1A) DEVELOPMENT.
3. TRAFFIC IMPACT: THE PROPOSED DEVELOPMENT HAS TWO ENTRANCES ONTO THE EXISTING PLATT ROAD, WHICH IS A PAVED, ALL SEASON, TWO–LANE, COUNTY ROAD. THE ADDITIONAL TRAFFIC IMPACT OF THIS PROPOSED BEMIS FARMS DEVELOPMENT IS SMALL AND SHOULD NOT ADVERSELY IMPACT TRAFFIC ON BEMIS ROAD.
4. IMPACT ON PUBLIC SERVICES: AS DISCUSSED ABOVE THE PROPERTY HAS GOOD ACCESS TO PLATT ROAD, AS WELL AS PRIVATE GAS AND ELECTRIC UTILITIES. THE PROPERTY HAS GOOD SOILS AND GEOLOGY FOR ON–SITE WELL AND SEPTIC SYSTEMS TO MEET THE WASHTENAW COUNTY REQUIREMENTS FOR EACH LOT. THIS PROPERTY IS ON THE WESTERN EDGE OF PITTSFIELD TOWNSHIP WITHIN THE SALINE SCHOOL DISTRICT. THE CLOSEST SCHOOLS ARE WITHIN A 2 MILE RADIUS OF ALL LOTS IN PROPOSED IN THIS DEVELOPMENT. SOLID WASTE COLLECTION CAN EASILY BE ACCOMPLISHED ALONG THE PROPOSED INTERIOR ROAD NETWORK. THERE ARE NO UNUSUAL OR UNREASONABLE BURDENS PLACED ON PUBLIC SERVICES BY THIS DEVELOPMENT. FIRE PROTECTION WAS DISCUSSED WITH THE PITTSFIELD TWP FIRE CHIEF.
5. COMPLIANCE WITH ZONING STANDARDS: THIS PROPOSED DEVELOPMENT CONFORMS TO THE EXISTING ZONING OF THE PROPERTY AND WILL BE DESIGNED, CONSTRUCTED, OPERATED, AND MAINTAINED TO MEET THE STATED INTENT OF THE ZONING ORDINANCE AND COMPLY WITH APPLICABLE STANDARDS.
6. IMPACT ON OVERALL ENVIRONMENT: ONE OF THE MAIN OBJECTIVES OF THE PROPOSED OSPDO PLAN IS TO PRESERVE THE NATURAL FEATURES CONTAINED ON THIS PROPERTY, WHICH ARE NOT PROTECTED BY AGRICULTURAL USES. THE OPEN SPACE AS SHOWN ON THE PLANS GREATLY PROTECTS THESE NATURAL FEATURES. THE PROPOSED DETENTION AND STORM WATER INFILTRATION ON THE SITE PROVIDES WATER QUALITY AND QUANTITY TREATS TO FURTHER PROTECT THE EXISTING KOCH AND WARNER DRAIN AND ADJACENT WETLANDS.
7. SECTION 7.02 OPEN SPACE PRESERVATION DEVELOPMENT OPTION (OSPDO)
   - a. PRESERVE NATURAL DRAINAGE SYSTEMS, OPEN SPACE, FARMLANDS, RURAL CHARACTER, WOODLANDS AND WETLANDS, NATURAL TOPOGRAPHY AND ENVIRONMENTALLY SENSITIVE AREAS. THE PROPOSED DEVELOPMENT PROJECT ACHIEVES ALL OF THE OBJECTIVES NOTED ABOVE. THE EXISTING STREAM CORRIDOR REMAINS UNTOUCHED BY DEVELOPMENT AS IS FURTHER PROTECTED BY A PROPOSED EASEMENT TO THE WCWRC, OVER 50% OF THE SITE IS PRESERVED AS DEDICATED OPEN SPACE, THE DEVELOPMENT IS PROPOSED AS A RURAL SITE CONDOMINIUM NOT REQUIRING PUBLIC SANITARY SEWERS OR WATER MAINS, LARGE NUMBERS OF TREES INCLUDING MOST OF THE HERITAGE TREES ON THE SITE ARE PRESERVED, MUCH OF THE NATURAL TOPOGRAPHY REMAINS UNTOUCHED INCLUDING ENVIRONMENTALLY SENSITIVE AREAS ALONG THE WETLANDS, STREAM CORRIDOR AND FLOOD PLAIN.
   - b. ACHIEVE A HIGHER QUALITY OF RESIDENTIAL DEVELOPMENT THAN COULD BE OTHERWISE ACHIEVED UNDER CONVENTIONAL ZONING. THE PROPOSED NATURAL OPEN SPACE AREAS OF THE SITE PROVIDE AN EXCELLENT BENEFIT TO THE FUTURE RESIDENTS WITH ACCESS TO NATURAL AREAS AND VIEWS. THE RESIDENTIAL LOTS ARE CLUSTERED ON THE SOUTHERN PORTION OF THE SITE, WITH THE NORTHERN AND WESTERN PORTIONS OF THE SITE SHALL BE UNDISTURBED BY DEVELOPMENT.
   - c. PERMIT DEVELOPMENT THAT IS CONSISTENT WITH THE TOWNSHIP'S MASTER PLAN AND ANY OTHER APPLICABLE ADOPTED PLANS. THE TOWNSHIP'S MASTER PLAN IDENTIFIES THIS PARCEL FOR R–1, 1–ACRE RURAL RESIDENTIAL LOTS. THIS DEVELOPMENT PROPOSES LOTS CLUSTERED TO ALLOW LARGE OPEN SPACES AND PRESERVATION OF THE NATURAL FEATURES ON THE SITE. THE NATURAL VEGETATION IN THE OPEN SPACES, ALONG THE STREAM CORRIDOR, WITHIN THE WETLANDS AND BUFFER AREAS AND FLOOD PLAIN SHOULD REMAIN UNDISTURBED BY DEVELOPMENT.
   - d. PRESERVE OPEN SPACE. THE DEVELOPMENT AS PROPOSED INCLUDES OVER 50% OF OPEN SPACE INCLUDING MANY OF THE NATURAL FEATURES, WETLANDS, STREAM CORRIDOR, AND FLOOD PLAIN AREAS.
   - e. REDUCE CAPITAL COSTS OF DEVELOPMENT. INITIAL CAPITAL COSTS OF THE PROJECT ARE REDUCED BY PROVIDING THE LARGE OPEN SPACES, SMALLER LOTS AND NARROWER STREETS. THE SMALLER LOTS AND SIDEWALKS ALSO CREATE A SENSE OF COMMUNITY.
   - f. LIMIT SOIL EROSION BY REDUCING THE CLEARING AND GRADING NEEDED FOR DEVELOPMENT. THE CREATION OF THE OPEN SPACE AND STORM WATER MANAGEMENT PLAN WILL PROTECT EXISTING NATURAL AREAS, THEREBY LIMITING THE AMOUNT OF SOIL EROSION ON THE PROJECT.

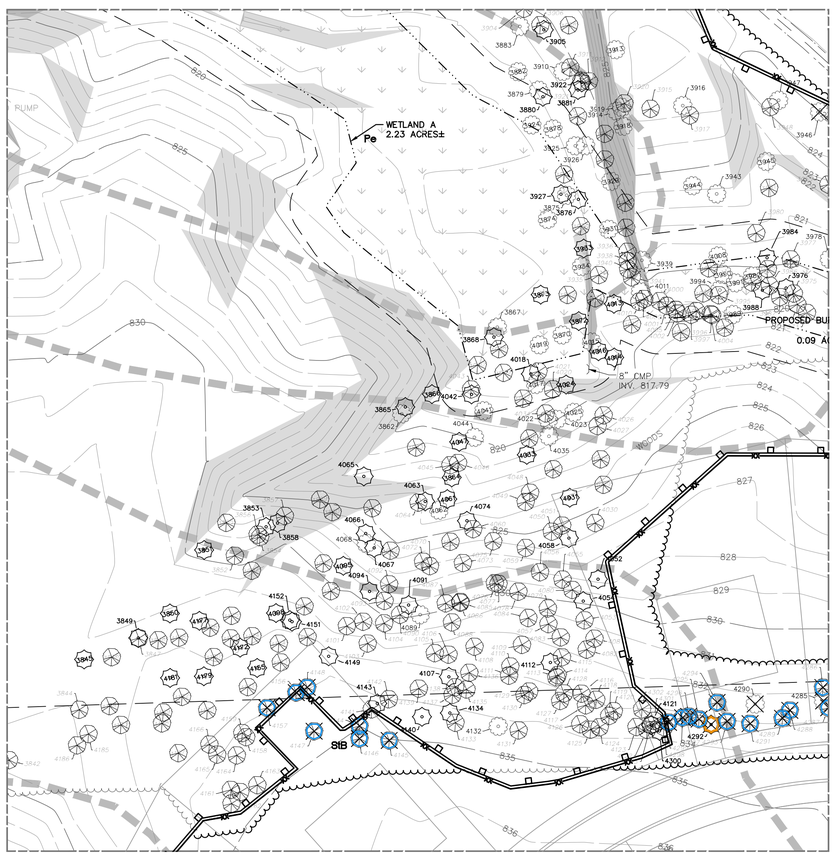
OPEN SPACE MANAGEMENT PLAN

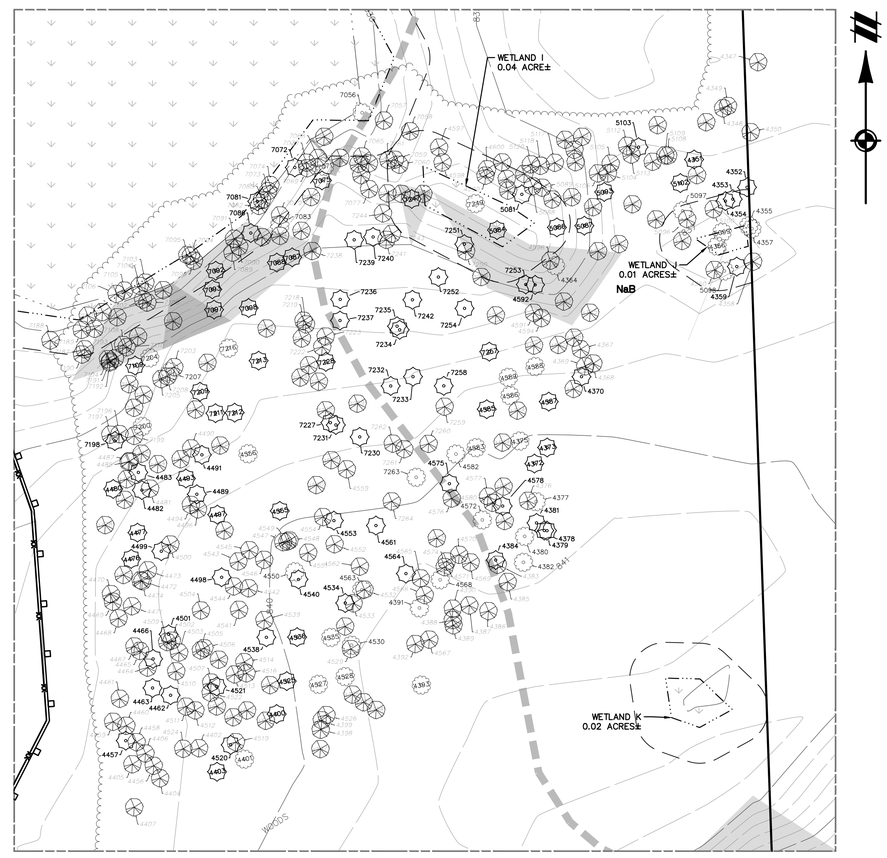
A. THE OPEN SPACE SHALL BE DEDICATED THROUGH AN IRREVOCABLE PERMANENT CONSERVATION EASEMENT RECORDED IN THE CONDOMINIUM DOCUMENTS TO BE MAINTAINED BY THE CONDOMINIUM ASSOCIATION.
B. THE OPEN SPACE SHALL BE RESTRICTED TO USE BY THE CONDOMINIUM LOT OWNERS ONLY.
C. THE PERMITTED USES OF THE OPEN SPACE SHALL BE WALKING, HIKING, AND NATURE OBSERVATION, ALONG WITH MAINTENANCE OF MOWED TRAILS AND REMOVAL OF HAZARDOUS CONDITIONS OR INVASIVE SPECIES.
D. NO BUILDINGS ARE PERMITTED IN THE CONSERVATION EASEMENT OPEN SPACE, NO STORING OR DUMPING OF REFUSE, OR HAZARDOUS MATERIALS SHALL BE PERMITTED.
E. MOTORIZED VEHICLES, BICYCLES, AND OTHER ACTIVITIES THAT MIGHT CAUSE SOIL EROSION ARE PROHIBITED IN THE OPEN SPACE AREAS.
F. CUTTING, FILLING OR REMOVAL OF VEGETATION FROM WETLAND OR WOODED AREAS IS PROHIBITED EXCEPT REMOVAL OF INVASIVE SPECIES AND ACCEPTABLE MANAGEMENT PRACTICES.
G. THE USE OF PESTICIDES, HERBICIDES AND FERTILIZERS IS PROHIBITED IN DEDICATED OPEN SPACE AREAS.
H. THE OPEN SPACE AREAS WILL BE SHOWN IN THE RECORDED CONDOMINIUM DOCUMENTS. THE CONDOMINIUM HOME OWNERS ASSOCIATION WILL BE RESPONSIBLE TO MAINTAIN THE OPEN SPACE AREAS IN ACCORDANCE WITH THE APPROVED MANAGEMENT PLAN; OR PITTSFIELD TWP MAY PERFORM THE REQUIRED MAINTENANCE WITH COSTS ASSESSED TO THE CONDO OWNERS.





VICINITY MAP
SCALE: 1" = 2000 FEET





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HERITAGE PRESERVE
PRELIMINARY SITE PLAN

NATURAL FEATURES PROTECTION
PLAN – TREE TAGS

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET

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JOB 18003065
SHEET NO. 10

CAD FILE: 18003065SP–03–NF.DWG

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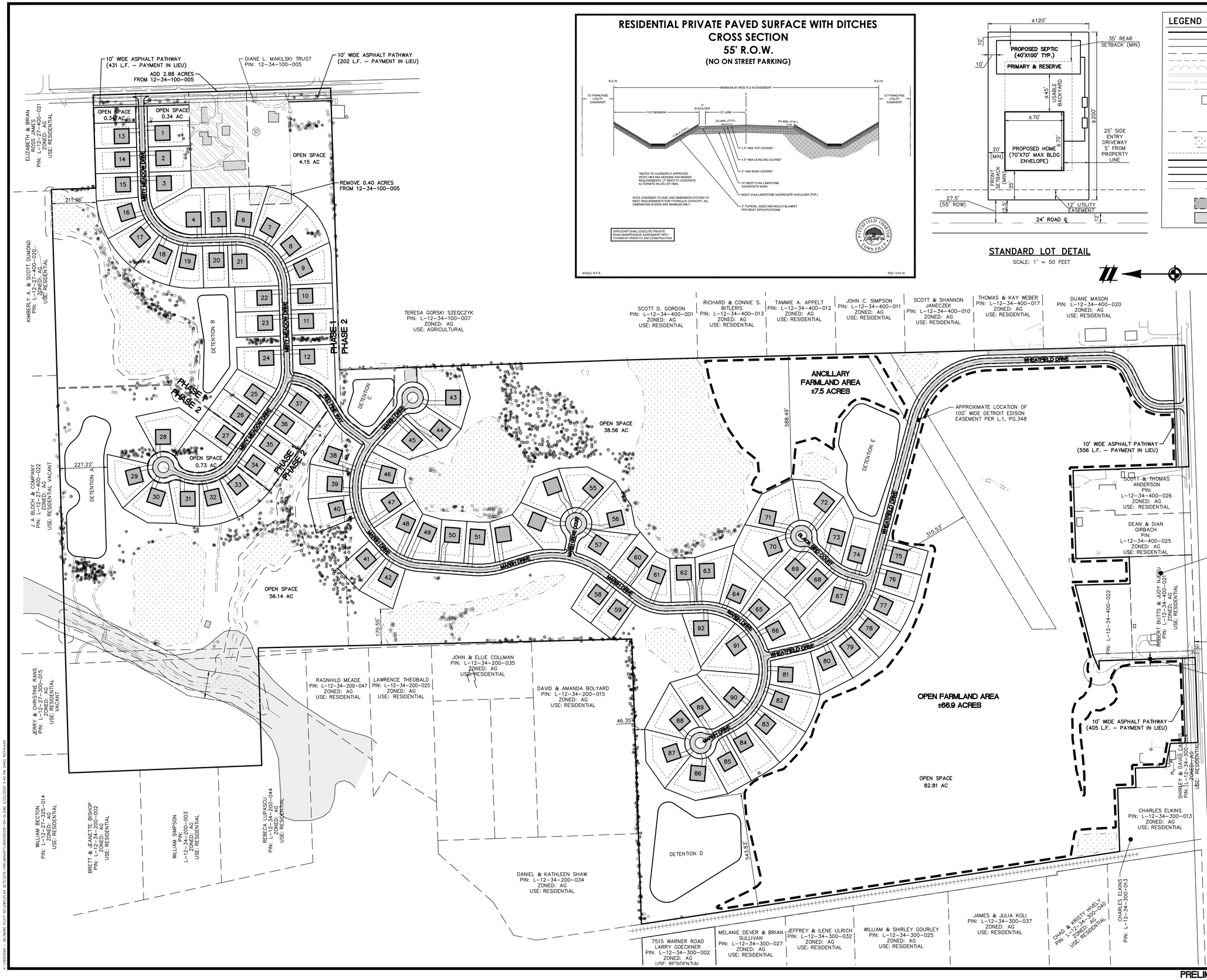

LOT AREA TABLE

LOT TABLE		LOT TABLE	
LOT #	AREA (S.F.)	LOT #	AREA (S.F.)
1	24000	51	26006
2	24000	52	33725
3	26360	53	33037
4	38814	54	34666
5	26700	55	34468
6	33534	56	37450
7	40044	57	32686
8	38932	58	25240
9	31502	59	24673
10	24193	60	26521
11	23997	61	30588
12	34929	62	25200
13	24023	63	35447
14	24012	64	31464
15	24820	65	27282
16	29543	66	31559
17	29543	67	44912
18	29543	68	30149
19	27587	69	30908
20	24000	70	43629
21	38770	71	39793
22	25251	72	35694
23	25200	73	31432
24	32826	74	31281
25	27350	75	24000
26	25200	76	24808
27	25200	77	27106
28	41459	78	27106
29	34660	79	27106
30	33846	80	28500
31	26120	81	33875
32	28930	82	37215
33	30210	83	37215
34	24398	84	34026
35	24000	85	28847
36	24000	86	38158
37	26545	87	37851
38	32461	88	34816
39	27126	89	39624
40	27148	90	37846
41	25727	91	40132
42	28085	92	34506
43	50638		
44	26832		
45	29865		
46	27012		
47	30888		
48	30613		
49	27739		
50	24022		

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HERITAGE PRESERVE
PRELIMINARY SITE PLAN

OVERALL DEVELOPMENT PLAN

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 100 200
1" = 200 FEET
DR. SK CH. --
P.M. MB

JOB 18003065
SHEET NO. 11

CAD FILE: 18003065SP-04-OL.DWG

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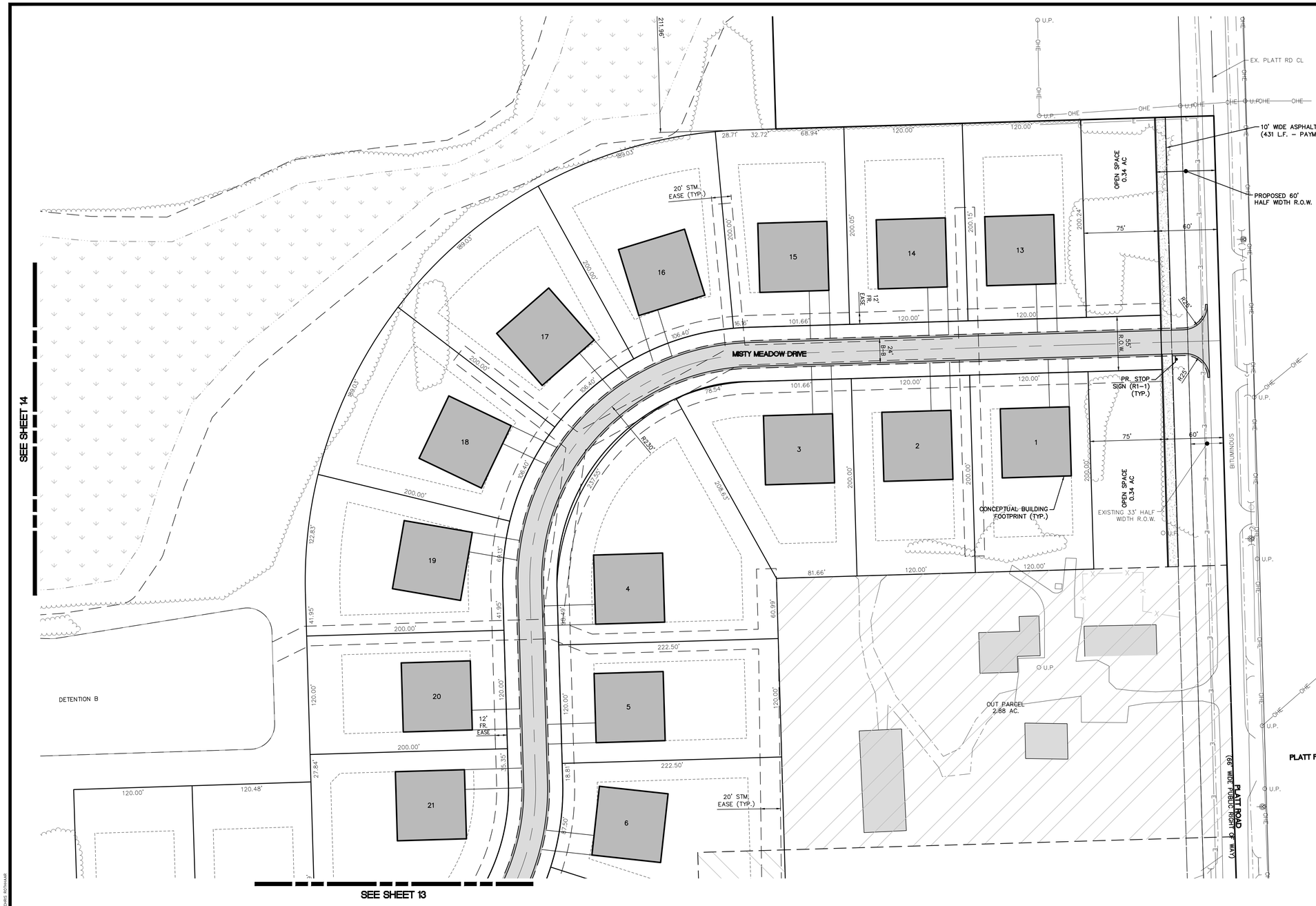

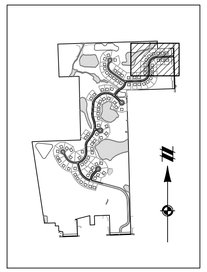

KEY MAP
SCALE: 1" = 2000 FEET

STOP
R1-1

811
Know what's **below.**
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

LAYOUT PLAN – AREA 1

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET
DR. SK CH. --
P.M. MB
JOB 18003065
SHEET NO. 12

CAD FILE: 18003065SP-05-LDWG

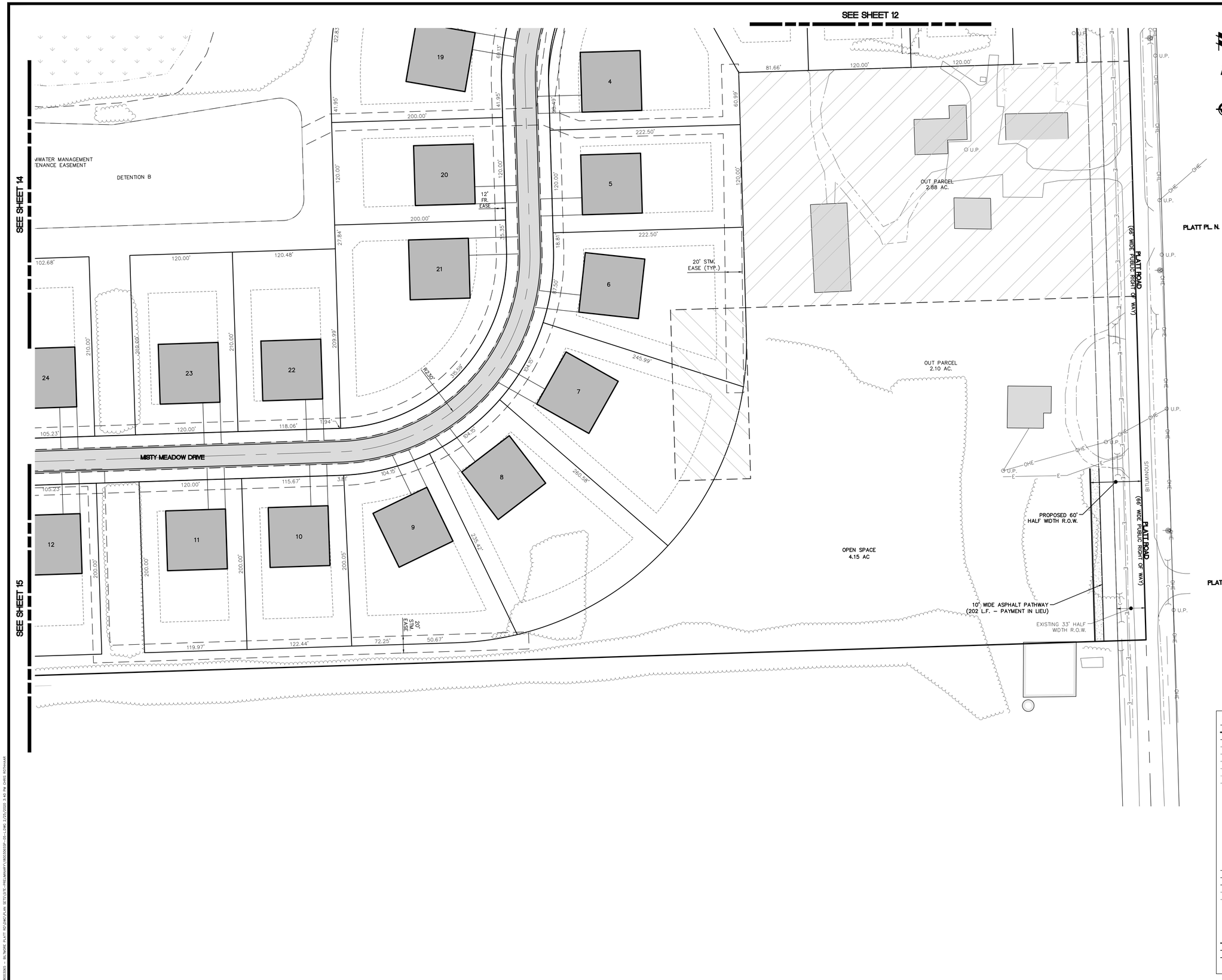
LEGEND

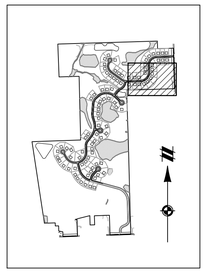
- EXIST. PROJECT BOUNDARY
- EXIST. ADJACENT BOUNDARY
- OHE — EXIST. OVERHEAD LINE
- EXIST. SIDEWALK
- EXIST. CONCRETE
- EXIST. GRAVEL
- EXIST. LANDSCAPE
- EXIST. WATERS EDGE
- U.P. — EXIST. UTILITY POLE
- EXIST. BUILDING
- EXIST. LIGHT POLE
- EXIST. WELL
- EXIST. SIGN
- EXIST. MAILBOX
- 100-YEAR FLOODPLAIN
- EXIST. REGULATED WETLAND
- EXIST. EASEMENT
- EXIST. 25' WETLAND BUFFER
- PROP. EASEMENT
- PROP. SETBACK
- PROP. ROAD CENTERLINE
- CONCEPTUAL BUILDING
- PROP. ASPHALT
- PROP. GRAVEL
- PROP. DETENTION
- PROP. ASPHALT
- PROP. GRAVEL
- PROP. SIGN

NOTES:

1. THE MINIMUM REQUIRED EASEMENT WIDTH FOR ENCLOSED STORM SEWER IS 20 FEET.
2. THE MINIMUM REQUIRED EASEMENT WIDTH FOR OPEN CHANNELS (BIOSWALES, VEGETATED DITCHES, ETC.) IS 50 FEET.
3. THE MINIMUM REQUIRED EASEMENT WIDTH FOR OPEN SWALES THAT PROVIDED CROSS LOT DRAINAGE IS 30 FEET.

PRELIMINARY - NOT FOR CONSTRUCTION





KEY MAP
SCALE: 1" = 2000 FEET

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WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

LAYOUT PLAN – AREA 2

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET
DR. SK CH. --
P.M. MB

JOB 18003065
SHEET NO. 13

LEGEND

- EXIST. PROJECT BOUNDARY
- EXIST. ADJACENT BOUNDARY
- OHE — EXIST. OVERHEAD LINE
- EXIST. SIDEWALK
- EXIST. CONCRETE
- EXIST. GRAVEL
- EXIST. LANDSCAPE
- EXIST. WATERS EDGE
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- EXIST. LIGHT POLE
- EXIST. WELL
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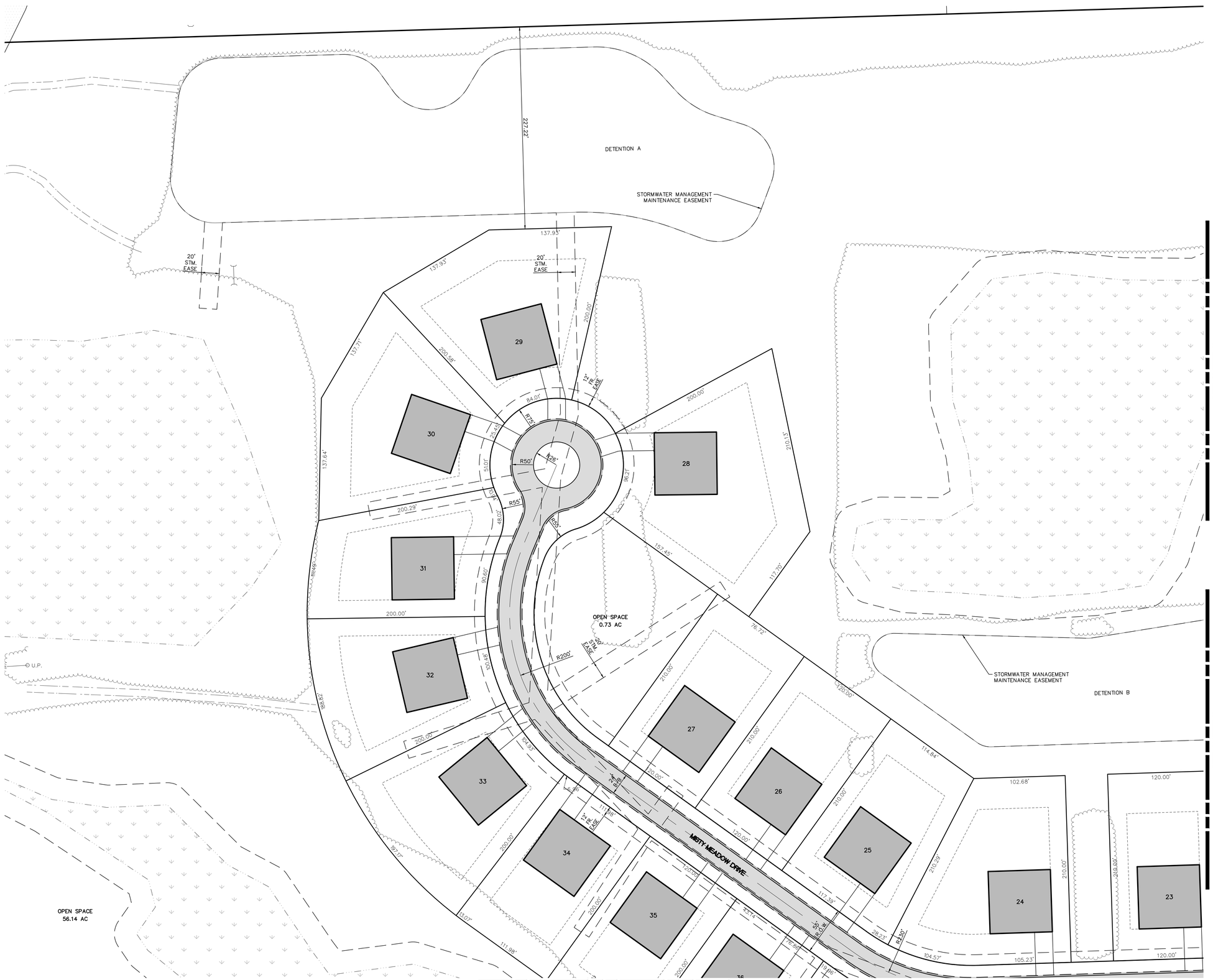
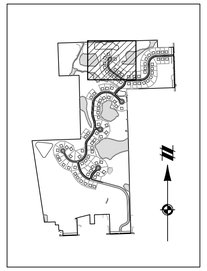
PRELIMINARY - NOT FOR CONSTRUCTION

CAD FILE: 18003065P-05-LDWG





KEY MAP
SCALE: 1" = 2000 FEET

LEGEND

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- EXIST. ADJACENT BOUNDARY
- OHE — EXIST. OVERHEAD LINE
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WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

LAYOUT PLAN – AREA 3

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

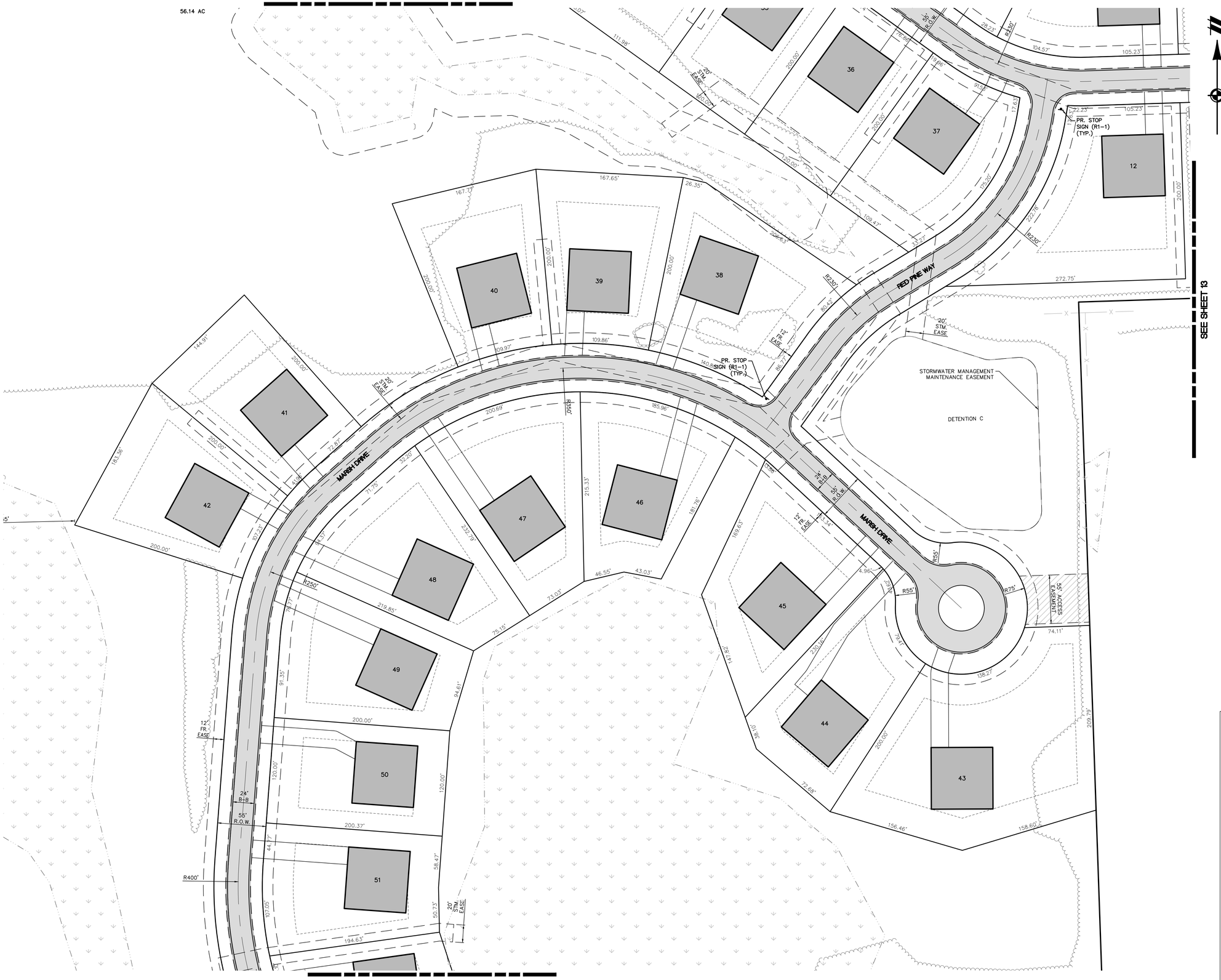
SCALE 0 25 50
1" = 50 FEET

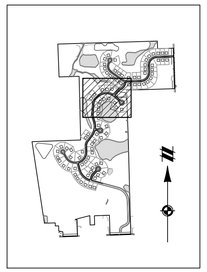
DR. SK CH. --
P.M. MB

JOB 18003065
SHEET NO. 14

CAD FILE: 18003065SP-05-LDWG

PRELIMINARY - NOT FOR CONSTRUCTION





KEY MAP
SCALE: 1" = 2000 FEET

LEGEND

- EXIST. PROJECT BOUNDARY
- EXIST. ADJACENT BOUNDARY
- OHE — EXIST. OVERHEAD LINE
- EXIST. SIDEWALK
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WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

LAYOUT PLAN – AREA 4

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

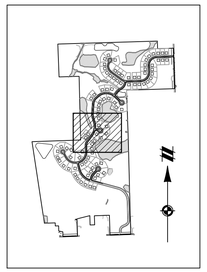
SCALE 0 25 50
1" = 50 FEET

DR. SK | CH. --
P.M. MB

JOB 18003065
SHEET NO. 15

CAD FILE: 18003065SP-05-LDWG

PRELIMINARY - NOT FOR CONSTRUCTION



KEY MAP
SCALE: 1" = 2000 FEET

LEGEND

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WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.

HERITAGE PRESERVE
PRELIMINARY SITE PLAN

LAYOUT PLAN – AREA 5

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET
DR. SK CH. --
P.M. MB
JOB 18003065
SHEET NO. 16

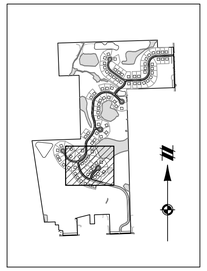
CAD FILE: 18003065P-05-LDWG

PRELIMINARY - NOT FOR CONSTRUCTION

SEE SHEET 16

SEE SHEET 18

SEE SHEET 19



KEY MAP
SCALE: 1" = 2000 FEET

LEGEND

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- EXIST. ADJACENT BOUNDARY
- OHE — EXIST. OVERHEAD LINE
- EXIST. SIDEWALK
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CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

LAYOUT PLAN – AREA 6

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET

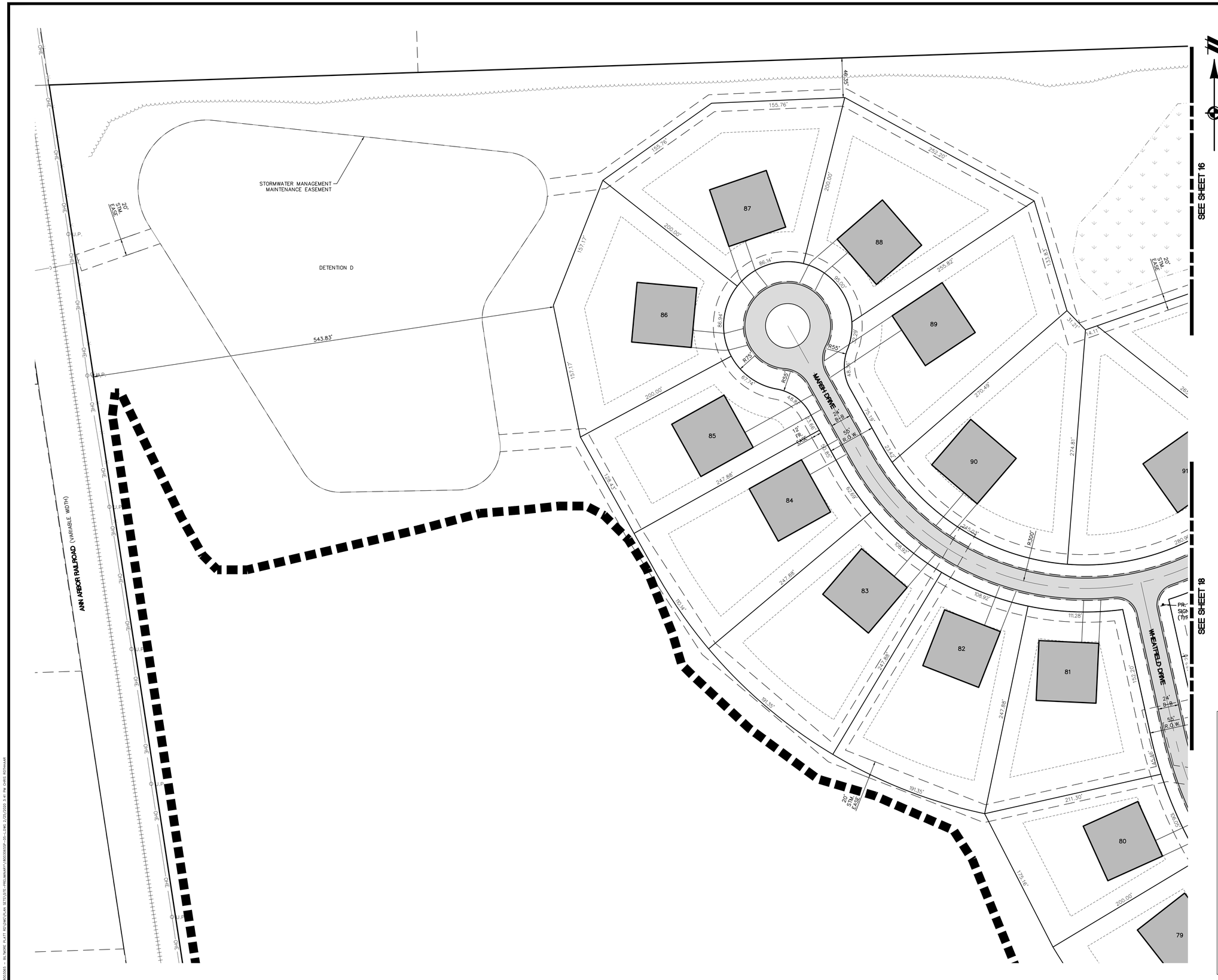
DR. SK CH. --
P.M. MB

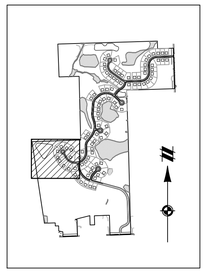
JOB 18003065

SHEET NO.
17

CAD FILE: 18003065P-05-LDWG

PRELIMINARY - NOT FOR CONSTRUCTION





KEY MAP
SCALE: 1" = 2000 FEET

LEGEND

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- EXIST. ADJACENT BOUNDARY
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CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

LAYOUT PLAN – AREA 7

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

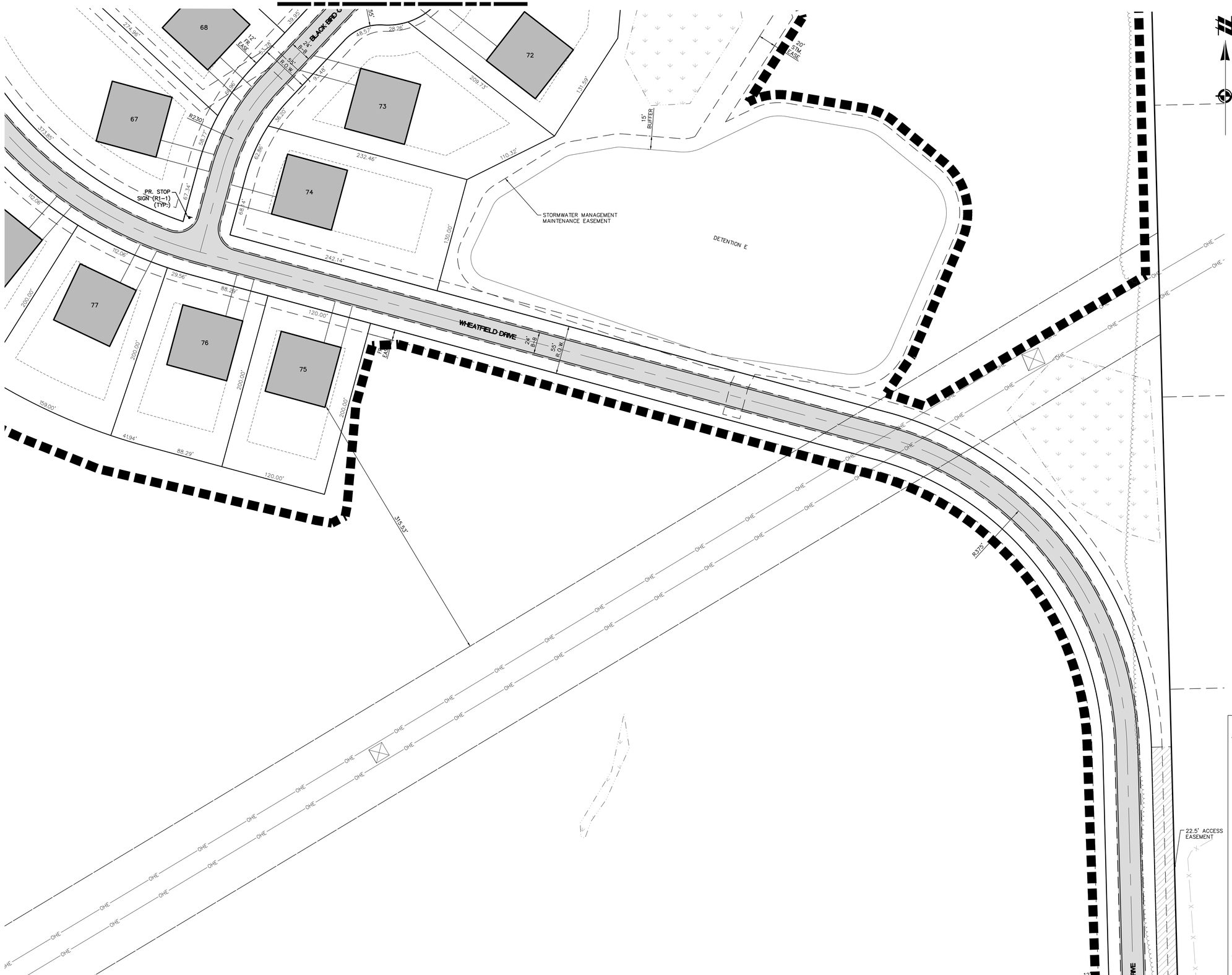
SCALE 0 25 50
1" = 50 FEET

DR. SK | CH. --
P.M. MB

JOB 18003065
SHEET NO. 18

CAD FILE: 18003065SP-05-L.DWG

PRELIMINARY - NOT FOR CONSTRUCTION



KEY MAP

SCALE: 1' = 2000 FEET

LEGEND

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- EXIST. ADJACENT BOUNDARY
- EXIST. OVERHEAD LINE
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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.

HERITAGE PRESERVE
PRELIMINARY SITE PLAN

LAYOUT PLAN – AREA 8

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

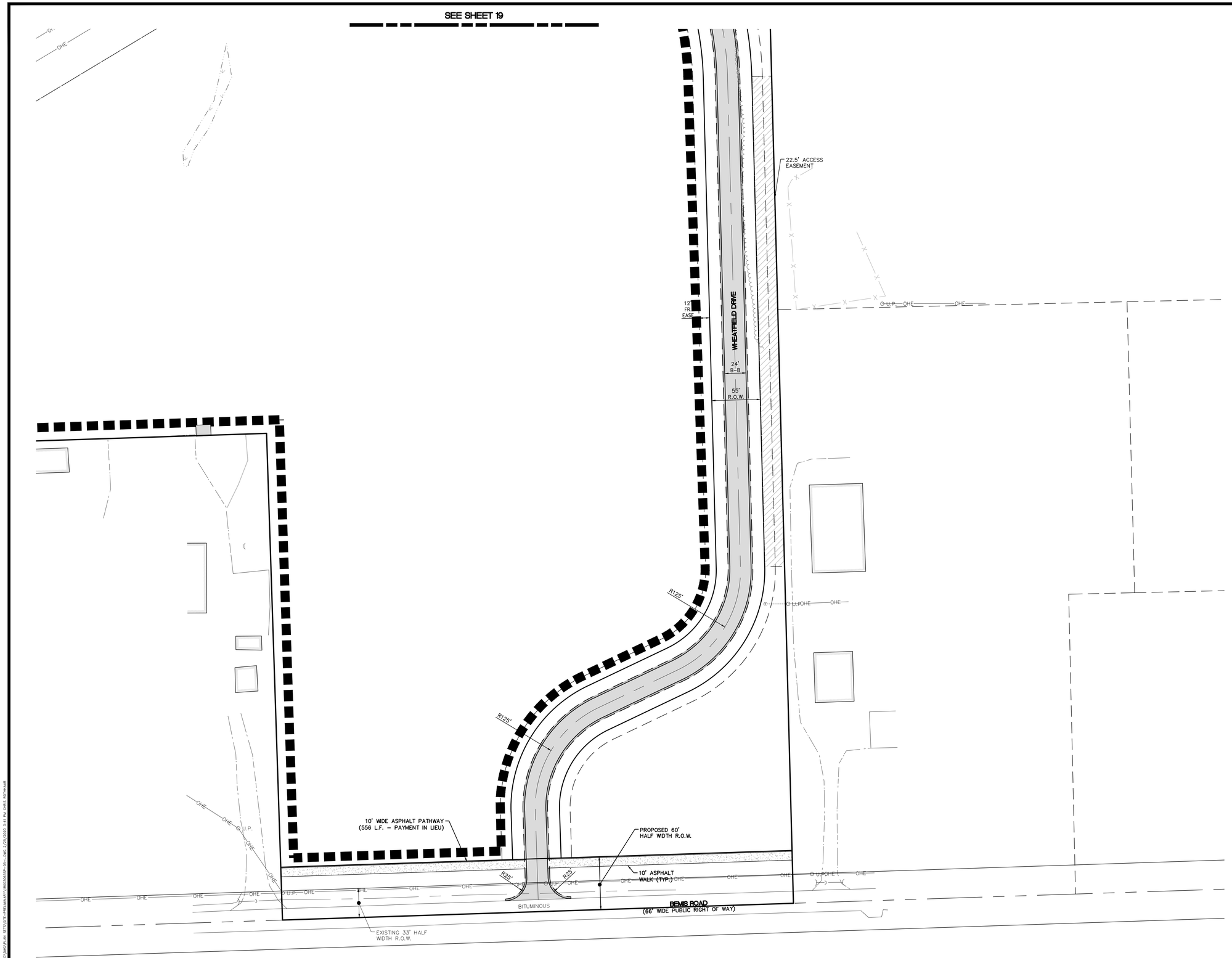
SCALE 0 25 50
1" = 50 FEET

DR. SK CH. --
P.M. MB

JOB 18003065
SHEET NO. 19

CAD FILE: 18003065SP-05-L.DWG

PRELIMINARY - NOT FOR CONSTRUCTION



KEY MAP
SCALE: 1" = 2000 FEET

LEGEND

- EXIST. PROJECT BOUNDARY
- EXIST. ADJACENT BOUNDARY
- EXIST. OVERHEAD LINE
- EXIST. SIDEWALK
- EXIST. CONCRETE
- EXIST. GRAVEL
- EXIST. LANDSCAPE
- EXIST. WATERS EDGE
- EXIST. UTILITY POLE
- EXIST. BUILDING
- EXIST. LIGHT POLE
- EXIST. WELL
- EXIST. SIGN
- EXIST. MAILBOX
- 100–YEAR FLOODPLAIN
- EXIST. REGULATED WETLAND
- EXIST. EASEMENT
- EXIST. 25' WETLAND BUFFER
- PROP. EASEMENT
- PROP. SETBACK
- PROP. ROAD CENTERLINE
- CONCEPTUAL BUILDING
- PROP. ASPHALT
- PROP. GRAVEL
- PROP. DETENTION
- PROP. ASPHALT
- PROP. GRAVEL
- PROP. SIGN

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Call before you dig.

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WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

LAYOUT PLAN – AREA 9

DATE
OCTOBER 4, 2019

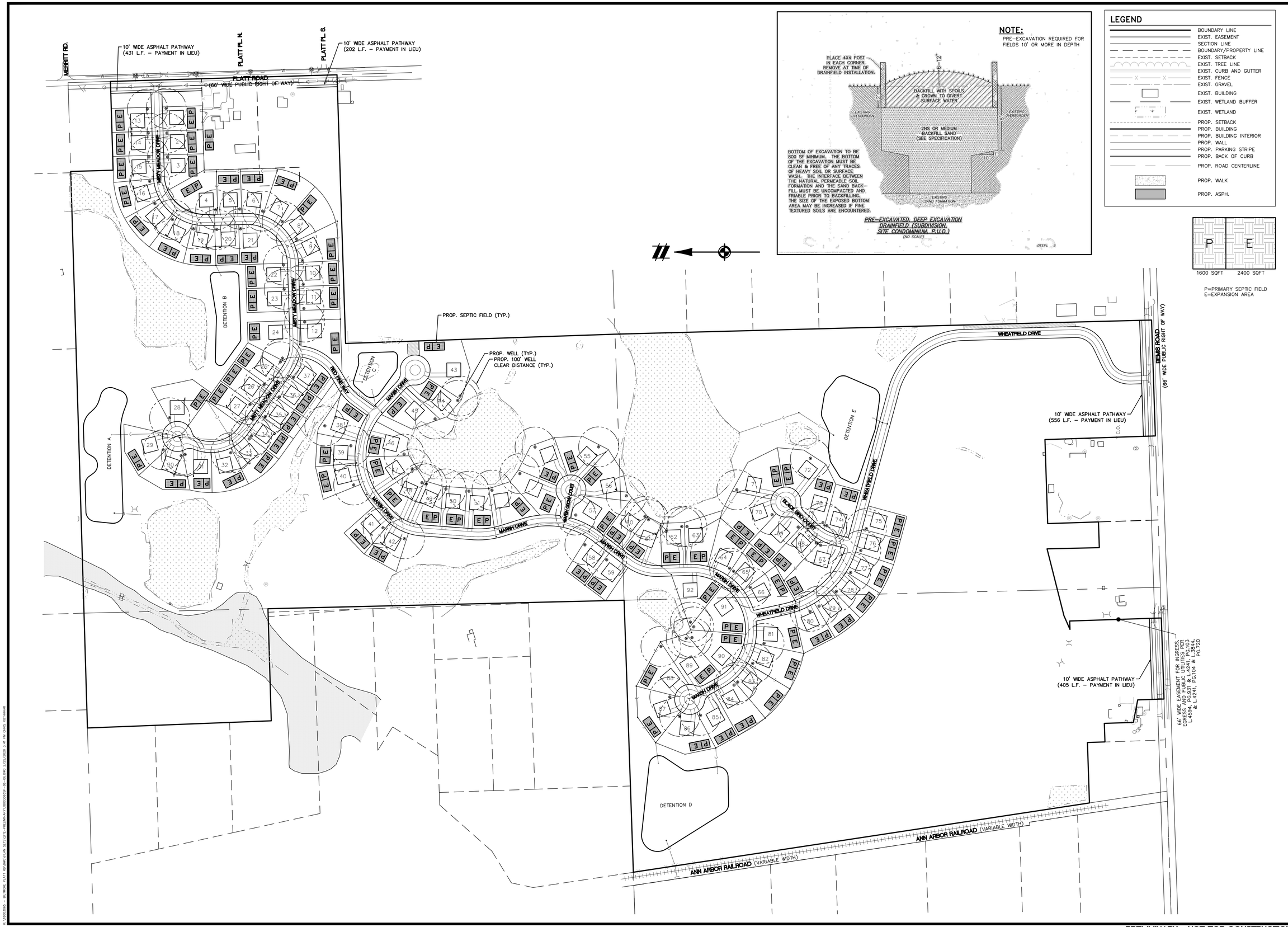
12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET
DR. SK CH. --
P.M. MB
JOB 18003065
SHEET NO.
20

CAD FILE: 18003065P-05-LDWG

PRELIMINARY – NOT FOR CONSTRUCTION



NOTE:

PRE-EXCAVATION REQUIRED FOR FIELDS 10' OR MORE IN DEPTH

PRE-EXCAVATED, DEEP EXCAVATION DRAINFIELD (SUBDIVISION, SITE CONDOMINIUM, P.U.D.)

(NO SCALE)

DEEP_6

LEGEND

- BOUNDARY LINE
- EXIST. EASEMENT
- SECTION LINE
- BOUNDARY/PROPERTY LINE
- EXIST. SETBACK
- EXIST. TREE LINE
- EXIST. CURB AND GUTTER
- EXIST. FENCE
- EXIST. GRAVEL
- EXIST. BUILDING
- EXIST. WETLAND BUFFER
- EXIST. WETLAND
- PROP. SETBACK
- PROP. BUILDING
- PROP. BUILDING INTERIOR
- PROP. WALL
- PROP. PARKING STRIPE
- PROP. BACK OF CURB
- PROP. ROAD CENTERLINE
- PROP. WALK
- PROP. ASPH.

P=PRIMARY SEPTIC FIELD
E=EXPANSION AREA

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PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

OVERALL WELL & SEPTIC PLAN

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 100 200
1" = 200 FEET

DR. SK | CH. --
P.M. MB

JOB 18003065

SHEET NO.
21

CAD FILE: 18003065SP-06-OU.DWG

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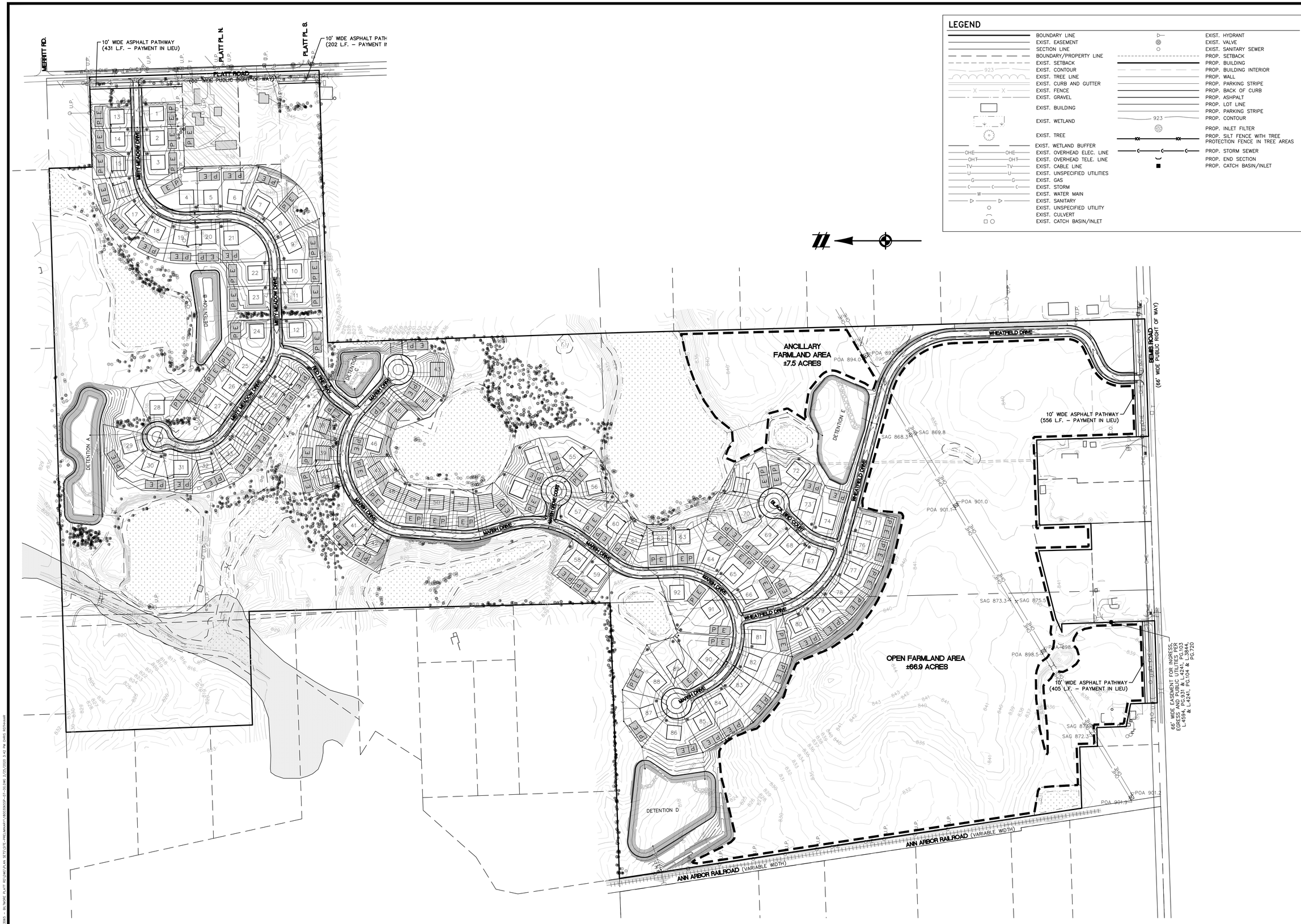

LEGEND

BOUNDARY LINE	EXIST. HYDRANT
EXIST. EASEMENT	EXIST. VALVE
SECTION LINE	EXIST. SANITARY SEWER
BOUNDARY/PROPERTY LINE	PROP. SETBACK
EXIST. SETBACK	PROP. BUILDING
EXIST. CONTOUR	PROP. BUILDING INTERIOR
EXIST. TREE LINE	PROP. WALL
EXIST. CURB AND GUTTER	PROP. PARKING STRIPE
EXIST. FENCE	PROP. BACK OF CURB
EXIST. GRAVEL	PROP. ASHPALT
EXIST. BUILDING	PROP. LOT LINE
EXIST. WETLAND	PROP. PARKING STRIPE
	PROP. CONTOUR
	PROP. INLET FILTER
EXIST. TREE	PROP. SILT FENCE WITH TREE PROTECTION FENCE IN TREE AREAS
EXIST. WETLAND BUFFER	PROP. STORM SEWER
EXIST. OVERHEAD ELEC. LINE	PROP. END SECTION
EXIST. OVERHEAD TELE. LINE	PROP. CATCH BASIN/INLET
EXIST. CABLE LINE	
EXIST. UNSPECIFIED UTILITIES	
EXIST. GAS	
EXIST. STORM	
EXIST. WATER MAIN	
EXIST. SANITARY	
EXIST. UNSPECIFIED UTILITY	
EXIST. CULVERT	
EXIST. CATCH BASIN/INLET	

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PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

OVERALL GRADING PLAN

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 100 200
1" = 200 FEET

DR. SK CH. --
P.M. MB

JOB 18003065
SHEET NO. 22

CAD FILE: 18003065SP-07-GG.DWG

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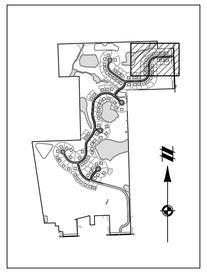

KEY MAP
SCALE: 1' = 2000 FEET

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CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

GRADING PLAN – AREA 1

DATE
OCTOBER 4, 2019
12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET
DR. SK CH. --
P.M. MB
JOB 18003065
SHEET NO. 23

LEGEND

- BOUNDARY LINE
- EXIST. EASEMENT
- SECTION LINE
- BOUNDARY/PROPERTY LINE
- EXIST. SETBACK
- EXIST. CONTOUR
- EXIST. TREE LINE
- EXIST. CURB AND GUTTER
- EXIST. FENCE
- EXIST. GRAVEL
- EXIST. BUILDING
- EXIST. WETLAND
- EXIST. WETLAND BUFFER
- EXIST. OVERHEAD ELEC. LINE
- EXIST. OVERHEAD TELE. LINE
- EXIST. CABLE LINE
- EXIST. UNSPECIFIED UTILITIES
- EXIST. GAS
- EXIST. STORM
- EXIST. WATER MAIN
- EXIST. SANITARY
- EXIST. UNSPECIFIED UTILITY
- EXIST. CULVERT
- EXIST. CATCH BASIN/INLET
- EXIST. HYDRANT
- EXIST. VALVE
- EXIST. SANITARY SEWER
- EXISTING TREE
- EXISTING HERITAGE TREE
- EXISTING REGULATED TREE
- PROP. SETBACK
- PROP. BUILDING
- PROP. BUILDING INTERIOR
- PROP. WALL
- PROP. PARKING STRIPE
- PROP. BACK OF CURB
- PROP. ASHPALT
- PROP. LOT LINE
- PROP. PARKING STRIPE
- PROP. CONTOUR
- PROP. INLET FILTER
- PROP. SILT FENCE WITH TREE PROTECTION FENCE IN TREE AREAS
- PROP. STORM SEWER
- PROP. END SECTION
- PROP. CATCH BASIN/INLET

PRELIMINARY - NOT FOR CONSTRUCTION

CAD FILE: 18003065P-C08-G.DWG

SEE SHEET 23

SEE SHEET 25

SEE SHEET 26

EMERGENCY OVERFLOW CHANNEL

DETENTION B

SEDIMENT DEPTH MARKER

MISTY MEADOW DRIVE

RED PINE WAY

STONE FOREBAY

DETENTION C

STONE RIP-RAP

PROP. POWERPOLE

KEY MAP

SCALE: 1" = 2000 FEET

LEGEND

BOUNDARY LINE		EXIST. BUILDING	G G	EXIST. GAS		EXISTING TREE	PROP. PARKING STRIPE
EXIST. EASEMENT		EXIST. WETLAND	C C	EXIST. STORM		EXISTING HERITAGE TREE	923 PROP. CONTOUR
SECTION LINE			W	EXIST. WATER MAIN		EXISTING REGULATED TREE	PROP. INLET FILTER
BOUNDARY/PROPERTY LINE				EXIST. SANITARY		PROP. SETBACK	PROP. SILT FENCE WITH TREE PROTECTION FENCE IN TREE AREAS
EXIST. SETBACK				EXIST. UNSPECIFIED UTILITY		PROP. BUILDING	PROP. STORM SEWER
923 EXIST. CONTOUR		EXIST. WETLAND BUFFER		EXIST. CULVERT		PROP. BUILDING INTERIOR	PROP. END SECTION
EXIST. TREE LINE	OHE OHE	EXIST. OVERHEAD ELEC. LINE		EXIST. CATCH BASIN/INLET		PROP. WALL	PROP. CATCH BASIN/INLET
EXIST. CURB AND GUTTER	OHT OHT	EXIST. OVERHEAD TELE. LINE		EXIST. HYDRANT		PROP. PARKING STRIPE	
X X EXIST. FENCE	TV TV	EXIST. CABLE LINE		EXIST. VALVE		PROP. BACK OF CURB	
EXIST. GRAVEL	U U	EXIST. UNSPECIFIED UTILITIES		EXIST. SANITARY SEWER		PROP. ASHPALT	
						PROP. LOT LINE	

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SECTION 34
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PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

GRADING PLAN – AREA 2

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET

DR. SK | CH. --
P.M. MB

JOB 18003065
SHEET NO. 24

CAD FILE: 18003065P-08-G.DWG

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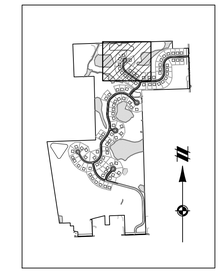

KEY MAP
SCALE: 1" = 2000 FEET

LEGEND

- BOUNDARY LINE
- EXIST. EASEMENT
- SECTION LINE
- BOUNDARY/PROPERTY LINE
- EXIST. SETBACK
- EXIST. CONTOUR
- EXIST. TREE LINE
- EXIST. CURB AND GUTTER
- EXIST. FENCE
- EXIST. GRAVEL
- EXIST. BUILDING
- EXIST. WETLAND
- EXIST. WETLAND BUFFER
- EXIST. OVERHEAD ELEC. LINE
- EXIST. OVERHEAD TELE. LINE
- EXIST. CABLE LINE
- EXIST. UNSPECIFIED UTILITIES
- EXIST. GAS
- EXIST. STORM
- EXIST. WATER MAIN
- EXIST. SANITARY
- EXIST. UNSPECIFIED UTILITY
- EXIST. CULVERT
- EXIST. CATCH BASIN/INLET
- EXIST. HYDRANT
- EXIST. VALVE
- EXIST. SANITARY SEWER
- PROP. SETBACK
- PROP. BUILDING
- PROP. BUILDING INTERIOR
- PROP. WALL
- PROP. PARKING STRIPE
- PROP. BACK OF CURB
- PROP. ASHPALT
- PROP. LOT LINE
- PROP. PARKING STRIPE
- PROP. CONTOUR
- PROP. INLET FILTER
- PROP. SILT FENCE WITH TREE PROTECTION FENCE IN TREE AREAS
- PROP. STORM SEWER
- PROP. END SECTION
- PROP. CATCH BASIN/INLET
- EXISTING TREE
- EXISTING HERITAGE TREE
- EXISTING REGULATED TREE

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WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

GRADING PLAN – AREA 3

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET
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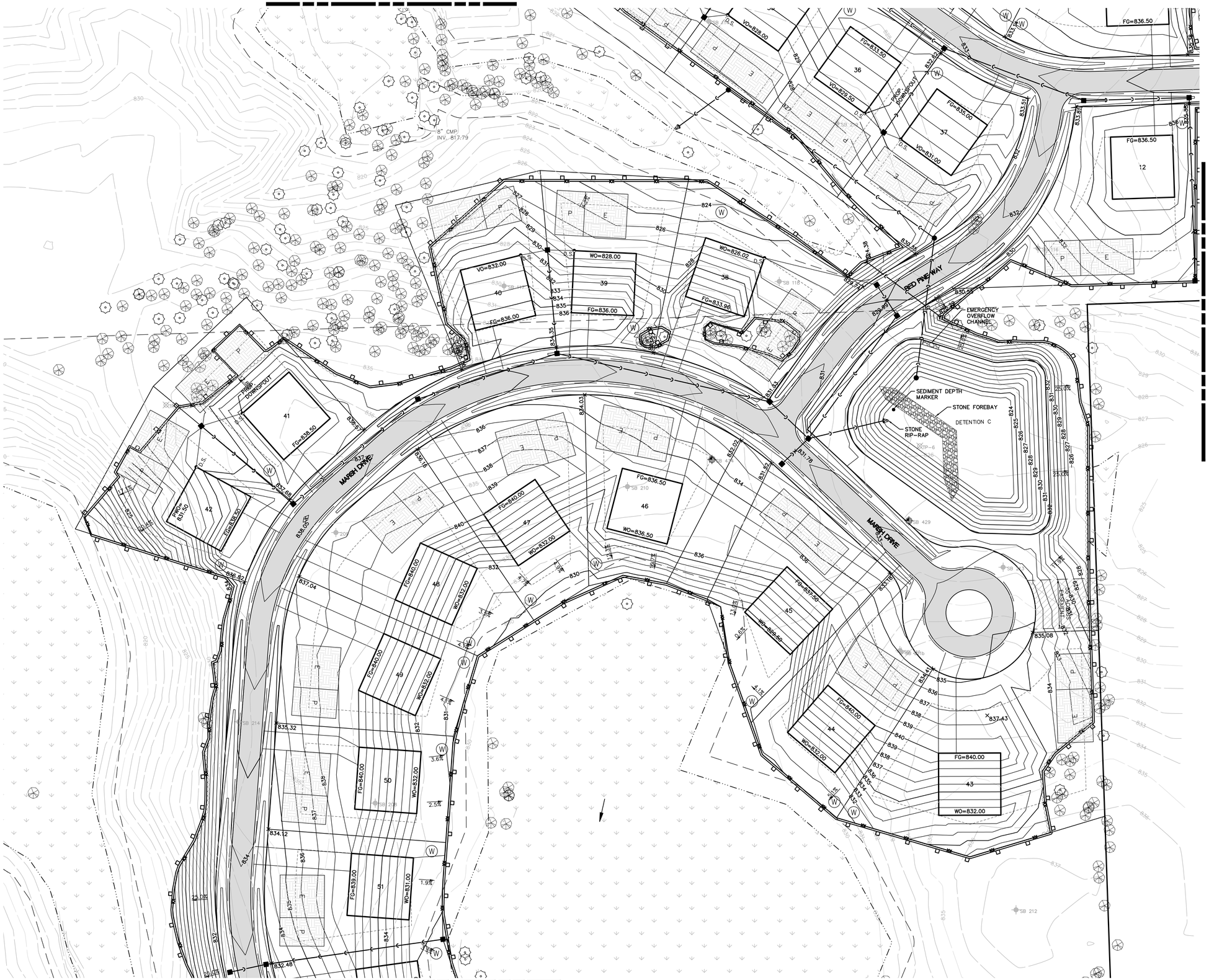
JOB 18003065
SHEET NO. 25

CAD FILE: 18003065P-06-G.DWG

PRELIMINARY - NOT FOR CONSTRUCTION



KEY MAP

SCALE: 1" = 2000 FEET

LEGEND

- BOUNDARY LINE
- EXIST. EASEMENT
- SECTION LINE
- BOUNDARY/PROPERTY LINE
- EXIST. SETBACK
- EXIST. CONTOUR
- EXIST. TREE LINE
- EXIST. CURB AND GUTTER
- EXIST. FENCE
- EXIST. GRAVEL
- EXIST. BUILDING
- EXIST. WETLAND
- EXIST. WETLAND BUFFER
- EXIST. OVERHEAD ELEC. LINE
- EXIST. OVERHEAD TELE. LINE
- EXIST. CABLE LINE
- EXIST. UNSPECIFIED UTILITIES
- EXIST. GAS
- EXIST. STORM
- EXIST. WATER MAIN
- EXIST. SANITARY
- EXIST. UNSPECIFIED UTILITY
- EXIST. CULVERT
- EXIST. CATCH BASIN/INLET
- EXIST. HYDRANT
- EXIST. VALVE
- EXIST. SANITARY SEWER
- PROP. SETBACK
- PROP. BUILDING
- PROP. BUILDING INTERIOR
- PROP. WALL
- PROP. PARKING STRIPE
- PROP. BACK OF CURB
- PROP. ASHPALT
- PROP. LOT LINE
- PROP. PARKING STRIPE
- PROP. CONTOUR
- PROP. INLET FILTER
- PROP. SILT FENCE WITH TREE PROTECTION FENCE IN TREE AREAS
- PROP. STORM SEWER
- PROP. END SECTION
- PROP. CATCH BASIN/INLET
- EXISTING TREE
- EXISTING HERITAGE TREE
- EXISTING REGULATED TREE

811

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HERITAGE PRESERVE
PRELIMINARY SITE PLAN

GRADING PLAN – AREA 4

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET

DR. SK CH. --
P.M. MB

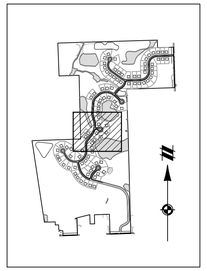
JOB 18003065
SHEET NO. **26**

CAD FILE: 18003065SP-08-G.DWG

PRELIMINARY - NOT FOR CONSTRUCTION

SEE SHEET 26

SEE SHEET 28



KEY MAP
SCALE: 1" = 2000 FEET

LEGEND

- BOUNDARY LINE
- EXIST. EASEMENT
- SECTION LINE
- BOUNDARY/PROPERTY LINE
- EXIST. SETBACK
- EXIST. CONTOUR
- EXIST. TREE LINE
- EXIST. CURB AND GUTTER
- EXIST. FENCE
- EXIST. GRAVEL
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- EXIST. WETLAND
- EXIST. WETLAND BUFFER
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- EXIST. OVERHEAD TELE. LINE
- EXIST. CABLE LINE
- EXIST. UNSPECIFIED UTILITIES
- EXIST. GAS
- EXIST. STORM
- EXIST. WATER MAIN
- EXIST. SANITARY
- EXIST. UNSPECIFIED UTILITY
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- PROP. STORM SEWER
- PROP. END SECTION
- PROP. CATCH BASIN/INLET
- EXISTING TREE
- EXISTING HERITAGE TREE
- EXISTING REGULATED TREE

811
Know what's **below.**
Call before you dig.

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

GRADING PLAN – AREA 5

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET
DR. SK CH. --
P.M. MB
JOB 18003065
SHEET NO.
27

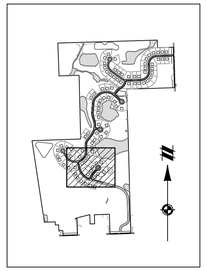
CAD FILE: 18003065P-08-G.DWG

PRELIMINARY - NOT FOR CONSTRUCTION

SEE SHEET 27

SEE SHEET 29

SEE SHEET 30



KEY MAP
SCALE: 1' = 2000 FEET

LEGEND

- BOUNDARY LINE
- EXIST. EASEMENT
- SECTION LINE
- BOUNDARY/PROPERTY LINE
- EXIST. SETBACK
- EXIST. CONTOUR
- EXIST. TREE LINE
- EXIST. CURB AND GUTTER
- EXIST. FENCE
- EXIST. GRAVEL
- EXIST. BUILDING
- EXIST. WETLAND
- EXIST. WETLAND BUFFER
- EXIST. OVERHEAD ELEC. LINE
- EXIST. OVERHEAD TELE. LINE
- EXIST. CABLE LINE
- EXIST. UNSPECIFIED UTILITIES
- EXIST. GAS
- EXIST. STORM
- EXIST. WATER MAIN
- EXIST. SANITARY
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- PROP. SETBACK
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- PROP. WALL
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SECTION 34
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WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.

HERITAGE PRESERVE
PRELIMINARY SITE PLAN

GRADING PLAN – AREA 6

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET

DR. SK CH. --
P.M. MB

JOB 18003065
SHEET NO. 28

CAD FILE: 18003065P-08-GDWG

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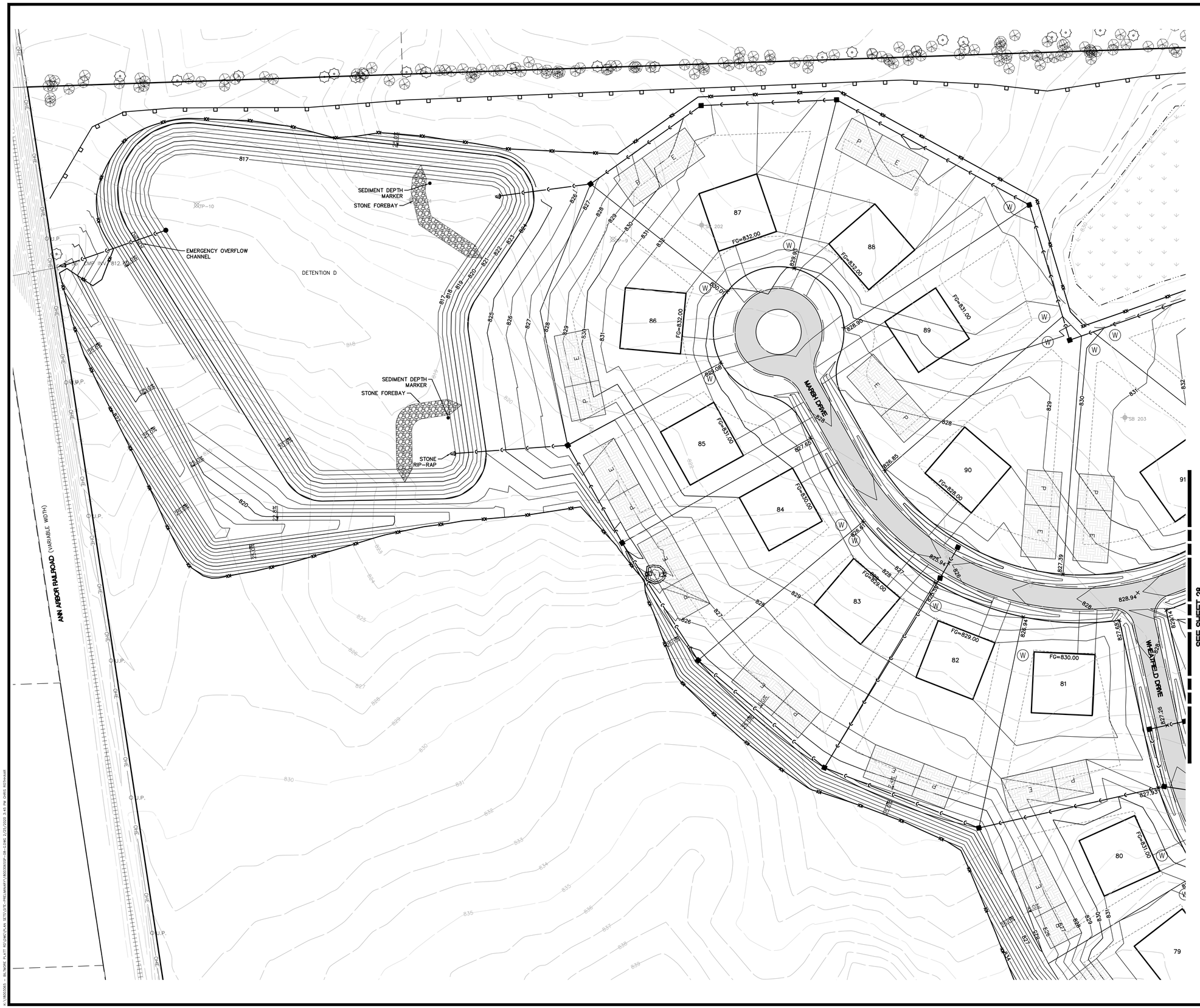

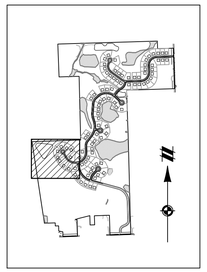

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HERITAGE PRESERVE
PRELIMINARY SITE PLAN

GRADING PLAN – AREA 7

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET
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P.M. MB

JOB 18003065
SHEET NO.
29

CAD FILE: 18003065P-08-G.DWG

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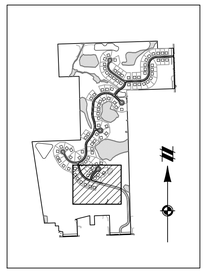
SEE SHEET 28



KEY MAP
SCALE: 1" = 2000 FEET

SEE SHEET 31

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HERITAGE PRESERVE
PRELIMINARY SITE PLAN

GRADING PLAN – AREA 8

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET

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JOB 18003065
SHEET NO.
30

CAD FILE: 18003065SP-08-G.DWG

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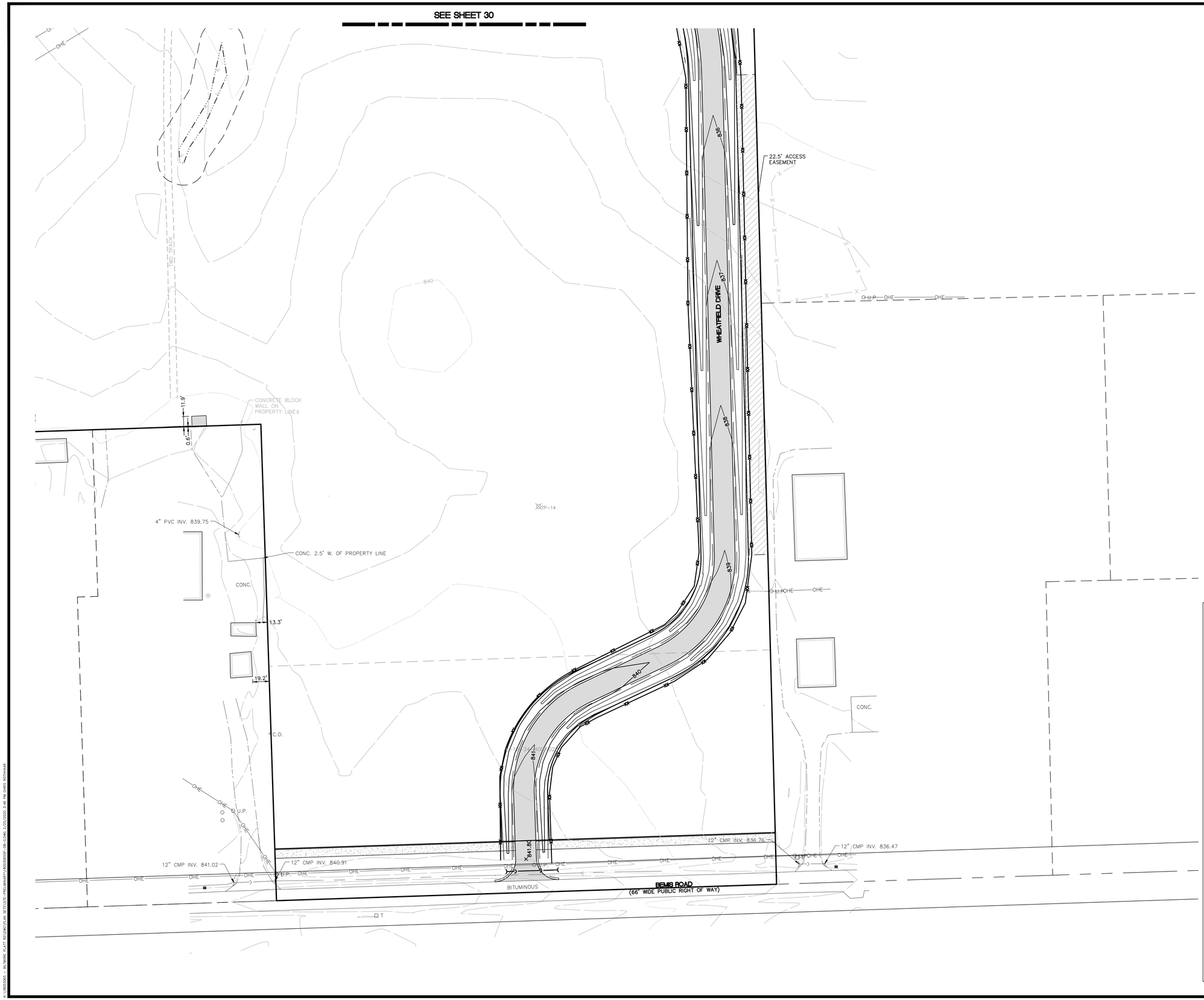

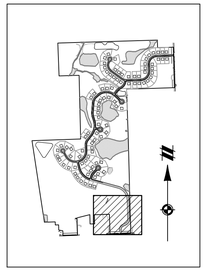

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HERITAGE PRESERVE
PRELIMINARY SITE PLAN

GRADING PLAN – AREA 9

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 25 50
1" = 50 FEET

DR. SK CH. --
P.M. MB

JOB 18003065

SHEET NO.
31

CAD FILE: 18003065SP-08-G.DWG

PRELIMINARY - NOT FOR CONSTRUCTION

DRAINAGE NARRATIVE

THE STORM WATER MANAGEMENT DESIGN (SEE STORM WATER MANAGEMENT CALCULATIONS) IS PREPARED IN ACCORDANCE WITH THE CURRENT RULES OF THE WASHTENAW COUNTY WATER RESOURCES COMMISSIONERS OFFICE (WCWRC). DEVELOPMENT UNDER THESE RULES REQUIRES STORM WATER INFILTRATION (IF FEASIBLE) AND DETENTION.

THE INCLUDED PLANS AND COMPUTATIONS PROVIDE FURTHER DETAIL FOR THIS NARRATIVE.

STORM WATER OUTLETS

- INFILTRATION INTO ONSITE SANDY SOILS. INFILTRATION FOR THE DEVELOPMENT IS FEASIBLE AS REFERENCED IN THE MCDOWELL & ASSOCIATES INFILTRATION REPORT. THE INFILTRATION RATES USED IN THE COMPUTATIONS ARE PER THE REPORT WITH A MAXIMUM RATE OF 10" PER HOUR. THE INFILTRATION REPORT HAS BEEN SUBMITTED UNDER SEPARATE COVER.
- KOCH AND WARNER DRAIN. STORM WATER BASINS A AND C WILL OUTLET TO EXISTING WETLAND AREAS THAT ARE ASSOCIATED WITH THE ONSITE PORTION OF KOCH AND WARNER DRAIN. BASIN D IN THE SOUTH PORTION OF THE SITE WILL OUTLET TO AN EXISTING CULVERT THAT ULTIMATELY DISCHARGES INTO THE KOCH AND WARNER DRAIN IN AN OFFSITE LOCATION. THE KOCH AND WARNER DRAIN IS A COUNTY DRAIN.
- WETLAND C. STORM WATER BASIN B IS AN INFILTRATION BASIN WITH AN EMERGENCY OVERFLOW THAT DISCHARGES TO THE ISOLATED WETLAND C ONSITE.
- WETLAND N. STORM WATER BASIN E OUTLETS VIA AN OUTLET CONTROL STRUCTURE, MEETING THE REQUIREMENTS OF THE WASHTENAW COUNTY WATER RESOURCES COMMISSIONERS OFFICE, TO THE ISOLATED WETLAND N ONSITE.

INFILTRATION

- INFILTRATION AS REQUIRED FOR THE ENTIRE SITE IS PROVIDED IN FOUR OF THE FIVE ONSITE DETENTION BASINS. SEE W9 WORKSHEETS IN THE COMPUTATIONS

DETENTION

- DETENTION AS REQUIRED PER THE WCWRC RULES IS PROVIDED IN DETENTION BASINS A, C, D, AND E ONSITE. REQUIRED DETENTION FOR THE DEVELOPED AREA OF THE SITE IS SHOWN ON W10 WORKSHEETS OF THE STORM COMPUTATIONS.
- OUTLET CONTROL STRUCTURES WILL BE PROVIDED THESE FOUR BASINS.

RETENTION

- RETENTION AND INFILTRATION AS REQUIRED PER THE WCWRC RULES IS PROVIDED IN BASINS B ONSITE. REQUIRED RETENTION FOR THE DEVELOPED AREA OF THE SITE IS SHOWN ON W10 WORKSHEETS OF THE STORM COMPUTATIONS.
- AN EMERGENCY OVERFLOW WILL BE PROVIDED FOR THIS BASIN TO WETLAND C.

INFILTRATION TEST PIT SUMMARY

Infiltration Rate Computations

Test Pit No.	Infiltrometer #1			Infiltrometer #2			Combined Average Rate per Test Pit (in/hr)	Safety Factor	Design Infiltration Rate per Test Pit (in/hr)
	Average Percolation (inches)	Percolation Time (Minutes)	Average Percolation Rate (inches/hour)	Average Percolation (inches)	Percolation Time (Minutes)	Average Percolation Rate (inches/hour)			
1	4.00	1.47	163.27	4.00	1.38	173.91	168.59	2	84.3
3	4.00	6.17	38.90	4.00	5.72	41.96	40.43	2	20.2
4	4.00	4.35	55.17	4.00	5.42	44.28	49.73	2	24.9
5	4.00	4.83	49.69	4.00	4.20	57.14	53.42	2	26.7
6	2.28	10.00	13.68	2.53	10.00	15.18	14.43	2	7.22
9	4.00	5.23	45.89	4.00	2.97	80.81	63.35	2	31.7
10	4.00	5.92	40.54	4.00	7.80	30.77	35.65	2	17.8
11	0.00	30.00	0.00	0.00	30.00	0.00	0.00	2	0.00
12	1.66	10.00	9.96	1.66	10.00	9.96	9.96	2	4.98
14	4.00	6.25	38.40	4.00	7.15	33.57	35.98	2	18.0
15	4.00	6.57	36.53	4.00	9.08	26.43	31.48	2	15.7

LEGEND

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PROP. LOT LINE
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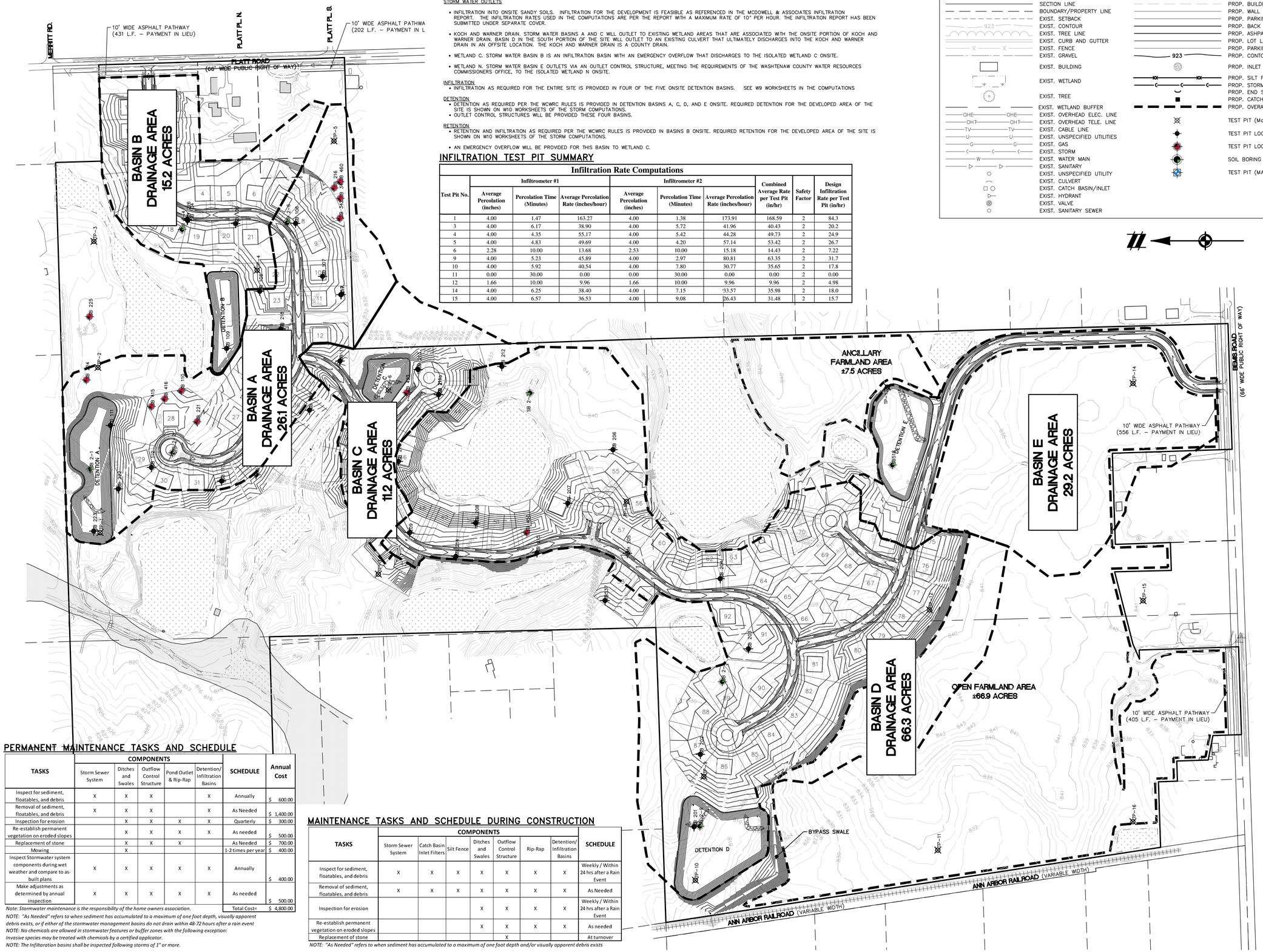
PROP. CONTOUR
PROP. INLET FILTER
PROP. SILT FENCE
PROP. STORM SEWER
PROP. END SECTION
PROP. CATCH BASIN/INLET
PROP. OVERALL DRAINAGE AREA
TEST PIT (McDOWELL & ASSOCIATES)
TEST PIT LOCATION
TEST PIT LOCATION (NO SAND TO 20')
SOIL BORING LOCATION (McDOWELL & ASSOCIATES)
TEST PIT (MARGINAL/OVERSIZE)



PERMANENT MAINTENANCE TASKS AND SCHEDULE

TASKS	COMPONENTS					SCHEDULE	Annual Cost
	Storm Sewer System	Ditches and Swales	Outflow Control Structure	Pond Outlet & Rip-Rap	Detention/ Infiltration Basins		
Inspect for sediment, floatables, and debris	X	X	X		X	Annually	$ 600.00
Removal of sediment, floatables, and debris	X	X	X		X	As Needed	$ 1,400.00
Inspection for erosion		X	X	X	X	Quarterly	$ 300.00
Re-establish permanent vegetation on eroded slopes		X	X	X	X	As needed	$ 500.00
Replacement of stone		X	X	X		As Needed	$ 700.00
Mowing		X				1-2 times per year	$ 400.00
Inspect Stormwater system components during wet weather and compare to as-built plans	X	X	X	X	X	Annually	$ 400.00
Make adjustments as determined by annual inspection	X	X	X	X	X	As needed	$ 500.00
						Total Cost=	$ 4,800.00

Note: Stormwater maintenance is the responsibility of the home owners association.

NOTE: "As Needed" refers to when sediment has accumulated to a maximum of one foot depth, visually apparent debris exists, or if either of the stormwater management basins do not drain within 48-72 hours after a rain event

NOTE: No chemicals are allowed in stormwater features or buffer zones with the following exception: Invasive species may be treated with chemicals by a certified applicator.

NOTE: The Infiltoration basins shall be inspected following storms of 1" or more.

MAINTENANCE TASKS AND SCHEDULE DURING CONSTRUCTION

TASKS	COMPONENTS							SCHEDULE
	Storm Sewer System	Catch Basin Inlet Filters	Silt Fence	Ditches and Swales	Outflow Control Structure	Rip-Rap	Detention/ Infiltration Basins	
Inspect for sediment, floatables, and debris	X	X	X	X	X	X	X	Weekly / Within 24 hrs after a Rain Event
Removal of sediment, floatables, and debris	X	X	X	X	X	X	X	As Needed
Inspection for erosion				X	X	X	X	Weekly / Within 24 hrs after a Rain Event
Re-establish permanent vegetation on eroded slopes				X	X	X	X	As needed
Replacement of stone					X			At turnover

NOTE: "As Needed" refers to when sediment has accumulated to a maximum of one foot depth and/or visually apparent debris exists

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WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN
STORMWATER PLAN

DATE
OCTOBER 4, 2019
12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 100 200
1" = 200 FEET
DR. SK CH. --
P.M. MB
JOB 18003065
SHEET NO. 32

CAD FILE: 18003065SP-09-STM.DWG

PRELIMINARY - NOT FOR CONSTRUCTION

BASIN A:

W1 Determining Post-Development Cover Types, Areas, Curve Numbers and runoff coefficients

Total Contributing Drainage Area = 26.1 Acres

Rational Method Variables

Cover Type	Soil Type	Area (sf)	Area (ac)	Runoff Coef	(c)(Area)
Impervious (Pavement, Houses)	B	180,560	4.15	0.95	171,532
Water (Pond)	B	106,680	2.45	1.00	106,680
Lawn, Good Condition	A	0	0.00	0.15	0
Lawn, Good Condition	B	683,892	15.70	0.25	170,973
Lawn, Good Condition	C	169,884	3.90	0.30	50,965
Lawn, Good Condition	D	(4,356)	-0.10	0.45	-1,960
				Total - Sum (c)(Area) =	498,190
				Area Total (sf)=	1,136,660
				Weighted C-Sum(c)(Area)/Sum(ac) or Sum(sf)=	**0.44**

NRCS Variables

Pervious Cover Type	Soil Type	Area (sf)	Area (ac)	Curve Number	(CN)(Area)
Lawn, Good Condition	A	0	0.00	39	0
Lawn, Good Condition	B	683,892	15.70	61	41,717,412
Lawn, Good Condition	C	169,884	3.90	74	12,571,416
Lawn, Good Condition	D	(4,356)	-0.10	80	-348,480
			0.00		0
		Total - Sum (CN)(Area) =			53,940,348
		Area Total - Sum(ac) of Sum(sf)=			849,420
		Weighted CN-Sum(CN)(Area)/Sum(ac) or Sum(sf)=			**64**

NRCS Variables

Impervious Cover Type	Soil Type	Area (sf)	Area (ac)	Curve Number	(CN)(Area)
Impervious (Pavement, Houses)	B	180,560	4.15	98	17,694,880
Water (Pond)	B	106,680	2.45	100	10,668,000
			0.00		0
		Total - Sum (CN)(Area) =			28,362,880
		Area Total - Sum(ac) of Sum(sf)=			287,240
		Weighted CN-Sum(CN)(Area)/Sum(ac) or Sum(sf)=			**99**

W2 First Flush Runoff Calculations (Vff)

A. Vff = (1") (1/12) (43560/1) (C) AC = **41,643** cf

W3 Predevelopment Bankfull Runoff Calculations (Vbf-pre)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Pervious Cover CN *(meadow - B,C,D soils)*	CN =	60	
C.	S = (1000/CN)-10	S =	6.67	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	0.13	in runoff
E.	Pervious Cover Area	Area =	1,136,660	sf
F.	V_{bf-pre} = Q(1/12)Area	V_{bf-pre} =	**12,743**	cf

W4 Pervious Cover Post-development Bankfull Runoff Calculations (Vbf-per-post)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Pervious Cover CN	CN =	64	
C.	S = (1000/CN)-10	S =	5.75	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	0.21	in runoff
E.	Pervious Cover Area	Area =	849,420	sf
F.	$V_{bf-per-post}$ = Q(1/12)Area	$V_{bf-per-post}$ =	**14,679**	cf

W5 Impervious Cover Post-development Bankfull Runoff Calculations (Vbf-imp-post)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Impervious Cover CN	CN =	99	
C.	S = (1000/CN)-10	S =	0.13	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	2.20	in runoff
E.	Pervious Cover Area	Area =	287,240	sf
F.	$V_{bf-imp-post}$ = Q(1/12)Area	$V_{bf-imp-post}$ =	**52,745**	cf

W6 Pervious Cover Post-development 100-year Storm Runoff Calculations (V100-per-post)

A.	100 year storm event	P =	5.11	in rainfall
B.	Pervious Cover CN	CN =	64	
C.	S = (1000/CN)-10	S =	5.75	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	1.62	in runoff
E.	Pervious Cover Area	Area =	849,420	sf
F.	$V_{100-imp-post}$ = Q(1/12)Area	$V_{100-imp-post}$ =	**114,359**	cf

W7 Impervious Cover Post-development 100-year Storm Runoff Calculations (V100-imp-post)

A.	100 year storm event	P =	5.11	in rainfall
B.	Pervious Cover CN	CN =	99	
C.	S = (1000/CN)-10	S =	0.13	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	4.96	in runoff
E.	Pervious Cover Area	Area =	287,240	sf
F.	$V_{100-imp-post}$ = Q(1/12)Area	$V_{100-imp-post}$ =	**118,726**	cf

W8 Determine Time of Concentration (Tc-hrs)

User specified; assume 30 minutes

Total Time of Concentration (hrs) = 0.50

W9 Runoff Summary & Onsite Infiltration Requirement

A. Runoff Summary from Previous Worksheets

V_{ff} =	**41,643**	cf*		
V_{bf-pre} =	12,743	cf		
$V_{bf-per-post}$ =	14,679	cf	**Total BF Volume ($V_{bf-post}$)**	
$V_{bf-imp-post}$ =	52,745	cf	67,424	cf
$V_{100-per-post}$ =	114,359	cf	**Total 100-year Volume (V_{100})**	
$V_{100-imp-post}$ =	118,726	cf	233,084	cf

B. Determine Onsite Infiltration Requirement

$V_{bf-post}$ = 67,424 cf
V_{bf-pre} = 12,743 cf
Bankfull Volume Difference = **54,681 cf***

Onsite Infiltration Requirement (V_{inf}) = **54,681** cf

W10 Detention / Retention Requirement

A.	Q_p = 238.6 (T_c) ^ -0.82	421.23	cfs/in-mi^2
B.	Total Site Area	26.07231	ac
C.	$Q_{100} = Q_{100-per} + Q_{100-imp}$	6.58	in
D.	Peak Flow (PF) = (Q_p·Q_{100}·A)/640	112.836	cfs
E.	Delta = PF - 0.15A	108.925	cfs
F.	V_{det} = (Delta/PF) x V_{100} - V_{inf}*	**-8,079**	cf

* V_{inf} refers to total infiltration provided per worksheet W11

W11 Determine Applicable BMPs and Associated Volume Credits

Proposed BMP	Area (ft²)	Storage Depth (ft)	Storage Volume (ft³)	Ave. Design Infil. Rate (in/hr)*	Infil. During Storm (ft³)	Total Volume Reduction (ft³)**
Infiltration Basin	52,506	1.4	74,667	10	262,528	233,084

Total Volume Reduction Credit by Proposed Structural BMPs (Vinf) = **233,084** cf

*Results of Infiltration Testing =42.15 in/hr for two (2) test pit locations near basin. Per WCWRC standards 10 in/hr will be used
**Lower value of potential infiltration capacity and total 100-year volume (V_{100}) draining to BMP

Proposed BMP	Ave. Design Infil. Rate (ft/hr)*	Volume Rate (cf/hr)	Estimated Drawdown Time (hrs)
Infiltration Basin	0.8333	43,755	1.71

W11A Infiltration Loading Ratios and Storage Volume Drawdown Times

Proposed BMP	100-yr Contributing Runoff (cf)*	Imperv. Area (sf)	Impervious Loading Ratio	Drawdown Time (hrs)
	233,084	180,560	3.4	1.71

W12 Infiltration / Detention Summary

Total Infiltration Required per WCWRC Rules:	54,681	cf
Total Infiltration Provided:	233,084	cf
Difference:	178,403	cf
% Deficiency:	0.0%	
Pro-Rated 20% Detention Penalty:	**0.0%**	
Total Detention Required	0	cf
Total Detention Required including Penalty, if applicable	**0**	cf

Basin Stage-Storage Summary:

Elev.	Area	Avg. Area	Depth	Volume
828.0	109,984	105,885	1.0	673,865
827.0	101,786	97,766	1.0	567,980
826.0	93,745	89,804	1.0	470,215
825.0	85,862	81,999	1.0	380,411
824.0	78,135	74,351	1.0	298,413
823.0	70,566	66,860	1.0	224,062
822.0	63,153	59,526	1.0	157,203
821.0	55,898	52,349	1.0	97,677
820.0	48,799	45,329	1.0	45,329
819.0	41,858			

Total Detention Provided above infiltration portion: **673,865** cf
Vff Elev.= 819.93
Vbf Elev.= 820.42
Vprovided Elev.= 819.00 (9 ft freeboard)

BASIN B:

W1 Determining Post-Development Cover Types, Areas, Curve Numbers and runoff coefficients

Total Contributing Drainage Area = 14.8 Acres

Rational Method Variables

Cover Type	Soil Type	Area (sf)	Area (ac)	Runoff Coef	(c)(Area)
Impervious (Pavement, Houses)	B	133,440	3.06	0.95	126,768
Water (Pond)	B	40,000	0.92	1.00	40,000
Lawn, Good Condition	A	0	0.00	0.15	0
Lawn, Good Condition	B	0	0.00	0.25	0
Lawn, Good Condition	C	56,628	1.30	0.30	16,988
Lawn, Good Condition	D	413,820	9.50	0.45	186,219
				Total - Sum (c)(Area) =	369,975
				Area Total (sf)=	643,888
				Weighted C-Sum(c)(Area)/Sum(ac) or Sum(sf)=	**0.57**

NRCS Variables

Pervious Cover Type	Soil Type	Area (sf)	Area (ac)	Curve Number	(CN)(Area)
Lawn, Good Condition	A	0	0.00	39	0
Lawn, Good Condition	B	0	0.00	61	0
Lawn, Good Condition	C	56,628	1.30	74	4,190,472
Lawn, Good Condition	D	413,820	9.50	80	33,105,600
			0.00		0
		Total - Sum (CN)(Area) =			37,296,072
		Area Total - Sum(ac) of Sum(sf)=			470,448
		Weighted CN-Sum(CN)(Area)/Sum(ac) or Sum(sf)=			**79**

NRCS Variables

Impervious Cover Type	Soil Type	Area (sf)	Area (ac)	Curve Number	(CN)(Area)
Impervious (Pavement, Houses)	B	133,440	3.06	98	13,077,120
Water (Pond)	B	40,000	0.92	100	4,000,000
			0.00		0
		Total - Sum (CN)(Area) =			17,077,120
		Area Total - Sum(ac) of Sum(sf)=			173,440
		Weighted CN-Sum(CN)(Area)/Sum(ac) or Sum(sf)=			**98**

W2 First Flush Runoff Calculations (Vff)

A. Vff = (1") (1/12) (43560/1) (C) AC = **30,524** cf

W3 Predevelopment Bankfull Runoff Calculations (Vbf-pre)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Pervious Cover CN *(meadow - B,C,D soils)*	CN =	77	
C.	S = (1000/CN)-10	S =	2.99	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	0.65	in runoff
E.	Pervious Cover Area	Area =	643,888	sf
F.	V_{bf-pre} = Q(1/12)Area	V_{bf-pre} =	**34,774**	cf

W4 Pervious Cover Post-development Bankfull Runoff Calculations (Vbf-per-post)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Pervious Cover CN	CN =	79	
C.	S = (1000/CN)-10	S =	2.61	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	0.75	in runoff
E.	Pervious Cover Area	Area =	470,448	sf
F.	$V_{bf-per-post}$ = Q(1/12)Area	$V_{bf-per-post}$ =	**29,477**	cf

W5 Impervious Cover Post-development Bankfull Runoff Calculations (Vbf-imp-post)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Impervious Cover CN	CN =	98	
C.	S = (1000/CN)-10	S =	0.16	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	2.17	in runoff
E.	Pervious Cover Area	Area =	173,440	sf
F.	$V_{bf-imp-post}$ = Q(1/12)Area	$V_{bf-imp-post}$ =	**31,395**	cf

W6 Pervious Cover Post-development 100-year Storm Runoff Calculations (V100-per-post)

A.	100 year storm event	P =	5.11	in rainfall
B.	Pervious Cover CN	CN =	79	
C.	S = (1000/CN)-10	S =	2.61	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	2.92	in runoff
E.	Pervious Cover Area	Area =	470,448	sf
F.	$V_{100-imp-post}$ = Q(1/12)Area	$V_{100-imp-post}$ =	**114,568**	cf

W7 Impervious Cover Post-development 100-year Storm Runoff Calculations (V100-imp-post)

A.	100 year storm event	P =	5.11	in rainfall
B.	Pervious Cover CN	CN =	98	
C.	S = (1000/CN)-10	S =	0.16	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	4.93	in runoff
E.	Pervious Cover Area	Area =	173,440	sf
F.	$V_{100-imp-post}$ = Q(1/12)Area	$V_{100-imp-post}$ =	**71,211**	cf

W8 Determine Time of Concentration (Tc-hrs)

User specified; assume 30 minutes

Total Time of Concentration (hrs) = 0.50

W9 Runoff Summary & Onsite Infiltration Requirement

A. Runoff Summary from Previous Worksheets

V_{ff} =	**30,524**	cf*		
V_{bf-pre} =	34,774	cf		
$V_{bf-per-post}$ =	29,477	cf	**Total BF Volume ($V_{bf-post}$)**	
$V_{bf-imp-post}$ =	31,395	cf	60,873	cf
$V_{100-per-post}$ =	114,568	cf	**Total 100-year Volume (V_{100})**	
$V_{100-imp-post}$ =	71,211	cf	185,779	cf

B. Determine Onsite Infiltration Requirement

$V_{bf-post}$ = 60,873 cf
V_{bf-pre} = 34,774 cf
Bankfull Volume Difference = **26,099 cf***

Onsite Infiltration Requirement (V_{inf}) = **30,524** cf

W10 Detention / Retention Requirement

A.	Q_p = 238.6 (T_c) ^ -0.82	421.23	cfs/in-mi^2
B.	Total Site Area	14.75251	ac
C.	$Q_{100} = Q_{100-per} + Q_{100-imp}$	7.85	in
D.	Peak Flow (PF) = (Q_p·Q_{100}·A)/640	76.214	cfs
E.	Delta = PF - 0.15A	74.001	cfs
F1.	V_{det} = (Delta/PF) x V_{100}	**180,385**	cf
F2.	V_{ret} = 2 x V_{det} - V_{inf}*	**177,988**	cf

* V_{inf} refers to total infiltration provided per worksheet W11

W11 Determine Applicable BMPs and Associated Volume Credits

Proposed BMP	Area (ft²)	Storage Depth (ft)	Storage Volume (ft³)	Ave. Design Infil. Rate (in/hr)*	Infil. During Storm (ft³)	Total Volume Reduction (ft³)**
Infiltration Basin	21,394	3.5	75,813	10	106,969	182,781

Total Volume Reduction Credit by Proposed Structural BMPs (Vinf) = **182,781** cf

* Includes factor of safety of 2. Results of Infiltration Testing = 4.98 in/hr for one (1) test pit location near basin
**Lower value of potential infiltration capacity and total 100-year volume (V_{100}) draining to BMP

Proposed BMP	Ave. Design Infil. Rate (ft/hr)*	Volume Rate (cf/hr)	Estimated Drawdown Time (hrs)
Infiltration Basin	0.8333	17,828	4.25

W11A Infiltration Loading Ratios and Storage Volume Drawdown Times

Proposed BMP	100-yr Contributing Runoff (cf)*	Imperv. Area (sf)	Impervious Loading Ratio	Drawdown Time (hrs)
	185,779	133,440	6.2	4.25

W12 Infiltration / Detention Summary

Total Infiltration Required per WCWRC Rules:	30,524	cf
Total Infiltration Provided:	182,781	cf
Difference:	152,257	cf
% Deficiency:	0.0%	
Pro-Rated 20% Detention Penalty:	**0.0%**	
Total Detention Required	177,988	cf
Total Detention Required including Penalty, if applicable	**177,988**	cf

Basin Stage-Storage Summary:

Elev.	Area	Avg. Area	Depth	Volume
832.5	53,800	51,050	1.0	241,056
831.5	48,300	46,963	0.5	190,006
831.0	45,625	43,013	1.0	166,525
830.0	40,400	37,850	1.0	123,513
829.0	35,300	32,838	1.0	85,663
828.0	30,375	25,850	1.0	52,825
827.0	21,325	17,575	1.0	26,975
826.0	13,825	9,400	1.0	9,400
825.0	4,975			

Total Detention Provided above infiltration portion: **190,006** cf
Vff Elev.= 827.54
Vbf Elev.= 828.54
Vprovided Elev.= 831.49 (1.01 ft freeboard)

BASIN C:

W1 Determining Post-Development Cover Types, Areas, Curve Numbers and runoff coefficients

Total Contributing Drainage Area = 11.2 Acres

Rational Method Variables

Cover Type	Soil Type	Area (sf)	Area (ac)	Runoff Coef	(c)(Area)
Impervious (Pavement, Houses)	B	110,600	2.54	0.95	105,070
Water (Pond)	B	37,500	0.86	1.00	37,500
Lawn, Good Condition	A	0	0.00	0.15	0
Lawn, Good Condition	B	108,900	2.50	0.25	27,225
Lawn, Good Condition	C	0	0.00	0.30	0
Lawn, Good Condition	D	230,868	5.30	0.45	103,891
				Total - Sum (c)(Area) =	273,686
				Area Total (sf)=	487,868
				Weighted C-Sum(c)(Area)/Sum(ac) or Sum(sf)=	**0.56**

NRCS Variables

Pervious Cover Type	Soil Type	Area (sf)	Area (ac)	Curve Number	(CN)(Area)
Lawn, Good Condition	A	0	0.00	39	0
Lawn, Good Condition	B	108,900	2.50	61	6,642,900
Lawn, Good Condition	C	0	0.00	74	0
Lawn, Good Condition	D	230,868	5.30	80	18,469,440
			0.00		0
		Total - Sum (CN)(Area) =			25,112,340
		Area Total - Sum(ac) of Sum(sf)=			339,768
		Weighted CN-Sum(CN)(Area)/Sum(ac) or Sum(sf)=			**74**

NRCS Variables

Impervious Cover Type	Soil Type	Area (sf)	Area (ac)	Curve Number	(CN)(Area)
Impervious (Pavement, Houses)	B	110,600	2.54	98	10,838,800
Water (Pond)	B	37,500	0.86	100	3,750,000
			0.00		0
		Total - Sum (CN)(Area) =			14,588,800
		Area Total - Sum(ac) of Sum(sf)=			148,100
		Weighted CN-Sum(CN)(Area)/Sum(ac) or Sum(sf)=			**99**

W2 First Flush Runoff Calculations (Vff)

A. Vff = (1") (1/12) (43560/1) (C) AC = **22,707** cf

W3 Predevelopment Bankfull Runoff Calculations (Vbf-pre)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Pervious Cover CN *(meadow - B,C,D soils)*	CN =	72	
C.	S = (1000/CN)-10	S =	3.89	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	0.45	in runoff
E.	Pervious Cover Area	Area =	487,868	sf
F.	V_{bf-pre} = Q(1/12)Area	V_{bf-pre} =	**18,402**	cf

W4 Pervious Cover Post-development Bankfull Runoff Calculations (Vbf-per-post)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Pervious Cover CN	CN =	74	
C.	S = (1000/CN)-10	S =	3.53	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	0.52	in runoff
E.	Pervious Cover Area	Area =	339,768	sf
F.	$V_{bf-per-post}$ = Q(1/12)Area	$V_{bf-per-post}$ =	**14,791**	cf

W5 Impervious Cover Post-development Bankfull Runoff Calculations (Vbf-imp-post)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Impervious Cover CN	CN =	99	
C.	S = (1000/CN)-10	S =	0.15	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	2.18	in runoff
E.	Pervious Cover Area	Area =	148,100	sf
F.	$V_{bf-imp-post}$ = Q(1/12)Area	$V_{bf-imp-post}$ =	**26,877**	cf

W6 Pervious Cover Post-development 100-year Storm Runoff Calculations (V100-per-post)

A.	100 year storm event	P =	5.11	in rainfall
B.	Pervious Cover CN	CN =	74	
C.	S = (1000/CN)-10	S =	3.53	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	2.44	in runoff
E.	Pervious Cover Area	Area =	339,768	sf
F.	$V_{100-imp-post}$ = Q(1/12)Area	$V_{100-imp-post}$ =	**69,216**	cf

W7 Impervious Cover Post-development 100-year Storm Runoff Calculations (V100-imp-post)

A.	100 year storm event	P =	5.11	in rainfall
B.	Pervious Cover CN	CN =	99	
C.	S = (1000/CN)-10	S =	0.15	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	4.93	in runoff
E.	Pervious Cover Area	Area =	148,100	sf
F.	$V_{100-imp-post}$ = Q(1/12)Area	$V_{100-imp-post}$ =	**60,880**	cf

W8 Determine Time of Concentration (Tc-hrs)

User specified; assume 30 minutes

Total Time of Concentration (hrs) = 0.50

W9 Runoff Summary & Onsite Infiltration Requirement

A. Runoff Summary from Previous Worksheets

V_{ff} =	**22,707**	cf*		
V_{bf-pre} =	18,402	cf		
$V_{bf-per-post}$ =	14,791	cf	**Total BF Volume ($V_{bf-post}$)**	
$V_{bf-imp-post}$ =	26,877	cf	41,668	cf
$V_{100-per-post}$ =	69,216	cf	**Total 100-year Volume (V_{100})**	
$V_{100-imp-post}$ =	60,880	cf	130,096	cf

B. Determine Onsite Infiltration Requirement

$V_{bf-post}$ = 41,668 cf
V_{bf-pre} = 18,402 cf
Bankfull Volume Difference = **23,266 cf***

Onsite Infiltration Requirement (V_{inf}) = **23,266** cf

W10 Detention / Retention Requirement

A.	Q_p = 238.6 (T_c) ^ -0.82	421.23	cfs/in-mi^2
B.	Total Site Area	11.17022	ac
C.	$Q_{100} = Q_{100-per} + Q_{100-imp}$	7.38	in
D.	Peak Flow (PF) = (Q_p·Q_{100}·A)/640	54.238	cfs
E.	Delta = PF - 0.15A	52.562	cfs
F.	V_{det} = (Delta/PF) x V_{100} - V_{inf}*	**109**	cf

* V_{inf} refers to total infiltration provided per worksheet W11

W11 Determine Applicable BMPs and Associated Volume Credits

Proposed BMP	Area (ft²)	Storage Depth (ft)	Storage Volume (ft³)	Ave. Design Infil. Rate (in/hr)*	Infil. During Storm (ft³)	Total Volume Reduction (ft³)**
Infiltration Basin	19,588	2.8	55,257	7.22	70,711	125,968

Total Volume Reduction Credit by Proposed Structural BMPs (Vinf) = **125,968** cf

* Includes factor of safety of 2. Results of Infiltration Testing = 7.22 in/hr for one (1) test pit location near basin
**Lower value of potential infiltration capacity and total 100-year volume (V_{100}) draining to BMP

Proposed BMP	Ave. Design Infil. Rate (ft/hr)*	Volume Rate (cf/hr)	Estimated Drawdown Time (hrs)
Infiltration Basin	0.6017	11,785	4.69

W11A Infiltration Loading Ratios and Storage Volume Drawdown Times

Proposed BMP	100-yr Contributing Runoff (cf)*	Imperv. Area (sf)	Impervious Loading Ratio	Drawdown Time (hrs)
	130,096	110,600	5.6	4.69

W12 Infiltration / Detention Summary

Total Infiltration Required per WCWRC Rules:	23,266	cf
Total Infiltration Provided:	125,968	cf
Difference:	102,702	cf
% Deficiency:	0.0%	
Pro-Rated 20% Detention Penalty:	**0.0%**	
Total Detention Required	109	cf
Total Detention Required including Penalty, if applicable	**109**	cf

Basin Stage-Storage Summary:

Elev.	Area	Avg. Area	Depth	Volume
832.0	36,900	35,100	1.0	190,963
831.0	33,300	31,575	1.0	155,863
830.0	29,850	28,200	1.0	124,288
829.0	26,550	24,975	1.0	96,088
828.0	23,400	21,913	1.0	71,113
827.0	20,425	19,038	1.0	49,200
826.0	17,650	16,338	1.0	30,163
825.0	15,025	13,825	1.0	13,825
824.0	12,625			0

Total Detention Provided above infiltration portion: **190,963** cf
Vff Elev.= 825.79
Vbf Elev.= 826.82
Vprovided Elev.= 824.01 (7.99 ft freeboard)

BASIN D:

W1 Determining Post-Development Cover Types, Areas, Curve Numbers and runoff coefficients

Total Contributing Drainage Area = 66.3 Acres

Rational Method Variables

Cover Type	Soil Type	Area (sf)	Area (ac)	Runoff Coef	(c)(Area)
Impervious (Pavement, Houses)	B	359,300	8.25	0.95	341,335
Water (Pond)	B	152,700	3.51	1.00	152,700
Lawn, Good Condition	A	135,036	3.10	0.15	20,255
Lawn, Good Condition	B	13,068	0.30	0.25	3,267
Lawn, Good Condition	C	0	0.00	0.30	0
Lawn, Good Condition	D	2,230,272	51.20	0.45	1,003,622
				Total - Sum (c)(Area) =	1,521,180
				Area Total (sf)=	2,890,376
				Weighted C-Sum(c)(Area)/Sum(ac) or Sum(sf)=	**0.53**

NRCS Variables

Pervious Cover Type	Soil Type	Area (sf)	Area (ac)	Curve Number	(CN)(Area)
Lawn, Good Condition	A	135,036	3.10	39	5,266,404
Lawn, Good Condition	B	13,068	0.30	61	797,148
Lawn, Good Condition	C	0	0.00	74	0
Lawn, Good Condition	D	2,230,272	51.20	80	178,421,760
			0.00		0
		Total - Sum (CN)(Area) =			184,485,312
		Area Total - Sum(ac) of Sum(sf)=			2,378,376
		Weighted CN-Sum(CN)(Area)/Sum(ac) or Sum(sf)=			**78**

NRCS Variables

Impervious Cover Type	Soil Type	Area (sf)	Area (ac)	Curve Number	(CN)(Area)
Impervious (Pavement, Houses)	B	359,300	8.25	98	35,211,400
Water (Pond)	B	152,700	3.51	100	15,270,000
			0.00		0
		Total - Sum (CN)(Area) =			50,481,400
		Area Total - Sum(ac) of Sum(sf)=			512,000
		Weighted CN-Sum(CN)(Area)/Sum(ac) or Sum(sf)=			**99**

W2 First Flush Runoff Calculations (Vff)

A. Vff = (1") (1/12) (43560/1) (C) AC = **127,635** cf

W3 Predevelopment Bankfull Runoff Calculations (Vbf-pre)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Pervious Cover CN *(meadow - B,C,D soils)*	CN =	75	
C.	S = (1000/CN)-10	S =	3.33	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	0.56	in runoff
E.	Pervious Cover Area	Area =	2,890,376	sf
F.	V_{bf-pre} = Q(1/12)Area	V_{bf-pre} =	**136,050**	cf

W4 Pervious Cover Post-development Bankfull Runoff Calculations (Vbf-per-post)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Pervious Cover CN	CN =	78	
C.	S = (1000/CN)-10	S =	2.89	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	0.67	in runoff
E.	Pervious Cover Area	Area =	2,378,376	sf
F.	$V_{bf-per-post}$ = Q(1/12)Area	$V_{bf-per-post}$ =	**133,408**	cf

W5 Impervious Cover Post-development Bankfull Runoff Calculations (Vbf-imp-post)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Impervious Cover CN	CN =	99	
C.	S = (1000/CN)-10	S =	0.14	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	2.19	in runoff
E.	Pervious Cover Area	Area =	512,000	sf
F.	$V_{bf-imp-post}$ = Q(1/12)Area	$V_{bf-imp-post}$ =	**93,346**	cf

W6 Pervious Cover Post-development 100-year Storm Runoff Calculations (V100-per-post)

A.	100 year storm event	P =	5.11	in rainfall
B.	Pervious Cover CN	CN =	78	
C.	S = (1000/CN)-10	S =	2.89	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	2.77	in runoff
E.	Pervious Cover Area	Area =	2,378,376	sf
F.	$V_{100-imp-post}$ = Q(1/12)Area	$V_{100-imp-post}$ =	**548,307**	cf

W7 Impervious Cover Post-development 100-year Storm Runoff Calculations (V100-imp-post)

A.	100 year storm event	P =	5.11	in rainfall
B.	Pervious Cover CN	CN =	99	
C.	S = (1000/CN)-10	S =	0.14	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	4.94	in runoff
E.	Pervious Cover Area	Area =	512,000	sf
F.	$V_{100-imp-post}$ = Q(1/12)Area	$V_{100-imp-post}$ =	**210,922**	cf

W8 Determine Time of Concentration (Tc-hrs)

User specified; assume 30 minutes

Total Time of Concentration (hrs) = 0.50

W9 Runoff Summary & Onsite Infiltration Requirement

A. Runoff Summary from Previous Worksheets

V_{ff} =	**127,635**	cf*		
V_{bf-pre} =	136,050	cf		
$V_{bf-per-post}$ =	133,408	cf	**Total BF Volume ($V_{bf-post}$)**	
$V_{bf-imp-post}$ =	93,346	cf	226,754	cf
$V_{100-per-post}$ =	548,307	cf	**Total 100-year Volume (V_{100})**	
$V_{100-imp-post}$ =	210,922	cf	759,228	cf

B. Determine Onsite Infiltration Requirement

$V_{bf-post}$ = 226,754 cf
V_{bf-pre} = 136,050 cf
Bankfull Volume Difference = **90,704 cf***

Onsite Infiltration Requirement (V_{inf}) = **127,635** cf

W10 Detention / Retention Requirement

A.	Q_p = 238.6 (T_c) ^ -0.82	421.23	cfs/in-mi^2
B.	Total Site Area	66.34174543	ac
C.	$Q_{100} = Q_{100-per} + Q_{100-imp}$	7.71	in
D.	Peak Flow (PF) = (Q_p·Q_{100}·A)/640	336.645	cfs
E.	Delta = PF - 0.15A	326.694	cfs
F.	V_{det} = (Delta/PF) x V_{100} - V_{inf}*	**176,472**	cf

* V_{inf} refers to total infiltration provided per worksheet W11

W11 Determine Applicable BMPs and Associated Volume Credits

Proposed BMP	Area (ft²)	Storage Depth (ft)	Storage Volume (ft³)	Ave. Design Infil. Rate (in/hr)*	Infil. During Storm (ft³)	Total Volume Reduction (ft³)**
Infiltration Basin	127,313	-0.6	-76,249	10	636,563	560,313

Total Volume Reduction Credit by Proposed Structural BMPs (Vinf) = **560,313** cf

*Results of Infiltration Testing = 24.75 in/hr for two (2) test pit locations near basin. Per WCWRC standards 10 in/hr will be used
**Lower value of potential infiltration capacity and total 100-year volume (V_{100}) draining to BMP

Proposed BMP	Ave. Design Infil. Rate (ft/hr)*	Volume Rate (cf/hr)	Estimated Drawdown Time (hrs)
Infiltration Basin	0.8333	106,094	-0.72

W11A Infiltration Loading Ratios and Storage Volume Drawdown Times

Proposed BMP	100-yr Contributing Runoff (cf)*	Imperv. Area (sf)	Impervious Loading Ratio	Drawdown Time (hrs)
	759,228	359,300	2.8	-0.72

W12 Infiltration / Detention Summary

Total Infiltration Required per WCWRC Rules:	127,635	cf
Total Infiltration Provided:	560,313	cf
Difference:	432,678	cf
% Deficiency:	0.0%	
Pro-Rated 20% Detention Penalty:	**0.0%**	
Total Detention Required	176,472	cf
Total Detention Required including Penalty, if applicable	**176,472**	cf

Basin Stage-Storage Summary:

Elev.	Area	Avg. Area	Depth	Volume
824.0	144,000	140,238	1.0	712,063
823.0	136,475	132,775	1.0	571,825
822.0	129,075	125,463	1.0	439,050
821.0	121,850	118,313	0.0	313,588
820.0	114,775	111,313	1.0	313,588
819.0	107,850	104,475	1.0	202,275
818.0	101,100	97,800	1.0	97,800
817.0	94,500	47,250		0

Total Detention Provided above infiltration portion: **571,825** cf
Vff Elev.= 819.52
Vbf Elev.= 820.40
Vprovided Elev.= 819.91 (4.09 ft freeboard)

BASIN E:

W1 Determining Post-Development Cover Types, Areas, Curve Numbers and runoff coefficients

Total Contributing Drainage Area = 29.2 Acres

Rational Method Variables

Cover Type	Soil Type	Area (sf)	Area (ac)	Runoff Coef	(c)(Area)
Impervious (Pavement, Houses)	B	67,100	1.54	0.95	63,745
Water (Pond)	B	40,000	0.92	1.00	40,000
Lawn, Good Condition	A	317,988	7.30	0.15	47,698
Lawn, Good Condition	B	0	0.00	0.25	0
Lawn, Good Condition	C	56,628	1.30	0.30	16,988
Lawn, Good Condition	D	788,436	18.10	0.45	354,796
				Total - Sum (c)(Area) =	523,228
				Area Total (sf)=	1,270,152
				Weighted C-Sum(c)(Area)/Sum(ac) or Sum(sf)=	**0.41**

NRCS Variables

Pervious Cover Type	Soil Type	Area (sf)	Area (ac)	Curve Number	(CN)(Area)
Lawn, Good Condition	A	317,988	7.30	39	12,401,532
Lawn, Good Condition	B	0	0.00	61	0
Lawn, Good Condition	C	56,628	1.30	74	4,190,472
Lawn, Good Condition	D	788,436	18.10	80	63,074,880
			0.00		0
		Total - Sum (CN)(Area) =			79,666,884
		Area Total - Sum(ac) of Sum(sf)=			1,163,052
		Weighted CN-Sum(CN)(Area)/Sum(ac) or Sum(sf)=			**69**

NRCS Variables

Impervious Cover Type	Soil Type	Area (sf)	Area (ac)	Curve Number	(CN)(Area)
Impervious (Pavement, Houses)	B	67,100	1.54	98	6,575,800
Water (Pond)	B	40,000	0.92	98	3,920,000
			0.00		0
		Total - Sum (CN)(Area) =			10,495,800
		Area Total - Sum(ac) of Sum(sf)=			107,100
		Weighted CN-Sum(CN)(Area)/Sum(ac) or Sum(sf)=			**98**

W2 First Flush Runoff Calculations (Vff)

A. Vff = (1") (1/12) (43560/1) (C) AC = **43,459** cf

W3 Predevelopment Bankfull Runoff Calculations (Vbf-pre)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Pervious Cover CN *(meadow - B,C,D soils)*	CN =	64	
C.	S = (1000/CN)-10	S =	5.63	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	0.22	in runoff
E.	Pervious Cover Area	Area =	1,270,152	sf
F.	V_{bf-pre} = Q(1/12)Area	V_{bf-pre} =	**23,188**	cf

W4 Pervious Cover Post-development Bankfull Runoff Calculations (Vbf-per-post)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Pervious Cover CN	CN =	69	
C.	S = (1000/CN)-10	S =	4.60	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	0.34	in runoff
E.	Pervious Cover Area	Area =	1,163,052	sf
F.	$V_{bf-per-post}$ = Q(1/12)Area	$V_{bf-per-post}$ =	**32,888**	cf

W5 Impervious Cover Post-development Bankfull Runoff Calculations (Vbf-imp-post)

A.	2 year/24 hour storm event	P =	2.35	in rainfall
B.	Impervious Cover CN	CN =	98	
C.	S = (1000/CN)-10	S =	0.20	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	2.12	in runoff
E.	Pervious Cover Area	Area =	107,100	sf
F.	$V_{bf-imp-post}$ = Q(1/12)Area	$V_{bf-imp-post}$ =	**18,936**	cf

W6 Pervious Cover Post-development 100-year Storm Runoff Calculations (V100-per-post)

A.	100 year storm event	P =	5.11	in rainfall
B.	Pervious Cover CN	CN =	69	
C.	S = (1000/CN)-10	S =	4.60	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	2.00	in runoff
E.	Pervious Cover Area	Area =	1,163,052	sf
F.	$V_{100-imp-post}$ = Q(1/12)Area	$V_{100-imp-post}$ =	**193,631**	cf

W7 Impervious Cover Post-development 100-year Storm Runoff Calculations (V100-imp-post)

A.	100 year storm event	P =	5.11	in rainfall
B.	Pervious Cover CN	CN =	98	
C.	S = (1000/CN)-10	S =	0.20	in
D.	Q = (P-0.2S)^2/(P+0.8S)	Q =	4.87	in runoff
E.	Pervious Cover Area	Area =	107,100	sf
F.	$V_{100-imp-post}$ = Q(1/12)Area	$V_{100-imp-post}$ =	**43,492**	cf

W8 Determine Time of Concentration (Tc-hrs)

User specified; assume 30 minutes

Total Time of Concentration (hrs) = 0.50

W9 Runoff Summary & Onsite Infiltration Requirement

A. Runoff Summary from Previous Worksheets

V_{ff} =	**43,459**	cf*		
V_{bf-pre} =	23,188	cf		
$V_{bf-per-post}$ =	32,888	cf	**Total BF Volume ($V_{bf-post}$)**	
$V_{bf-imp-post}$ =	18,936	cf	51,824	cf
$V_{100-per-post}$ =	193,631	cf	**Total 100-year Volume (V_{100})**	
$V_{100-imp-post}$ =	43,492	cf	237,123	cf

B. Determine Onsite Infiltration Requirement

$V_{bf-post}$ = 51,824 cf
V_{bf-pre} = 23,188 cf
Bankfull Volume Difference = **28,636 cf***

Onsite Infiltration Requirement (V_{inf}) = **43,459** cf

W10 Detention / Retention Requirement

A.	Q_p = 238.6 (T_c) ^ -0.82	421.23	cfs/in-mi^2
B.	Total Site Area	29.20070328	ac
C.	$Q_{100} = Q_{100-per} + Q_{100-imp}$	6.87	in
D.	Peak Flow (PF) = (Q_p·Q_{100}·A)/640	132.050	cfs
E.	Delta = PF - 0.15A	127.670	cfs
F.	V_{det} = (Delta/PF) x V_{100} - V_{inf}*	**229,257**	cf

* V_{inf} refers to total infiltration provided per worksheet W11

W11 Determine Applicable BMPs and Associated Volume Credits

Proposed BMP	Area (ft²)	Storage Depth (ft)	Storage Volume (ft³)	Ave. Design Infil. Rate (in/hr)	Infil. During Storm (ft³)	Total Volume Reduction (ft³)
Infiltration Basin	0	0.0	0	0	0	0

Total Volume Reduction Credit by Proposed Structural BMPs (Vinf) = **0** cf

W12 Infiltration / Detention Summary

Total Infiltration Required per WCWRC Rules:	43,459	cf
Total Infiltration Provided:	0	cf
Difference:	(43,459)	cf
% Deficiency:	100.0%	
Pro-Rated 20% Detention Penalty:	**20.0%**	
Total Detention Required	229,257	cf
Total Detention Required including Penalty, if applicable	**275,109**	cf

Basin Stage-Storage Summary:

Elev.	Area	Avg. Area	Depth	Volume
831.0	108,162	104,872	1.0	381,109
830.0	101,582	98,371	1.0	276,237
829.0	95,159	92,027	1.0	177,866
828.0	88,894	85,840	1.0	85,840
827.0	82,785	41,393	0.0	0

Total Detention Provided above infiltration portion: **276,237** cf
Vff Elev.= 827.51
Vbf Elev.= 827.60
Vprovided Elev.= 829.99 (1.01 ft freeboard)

811
Know what's **below.**
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

DETENTION CALCULATIONS

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

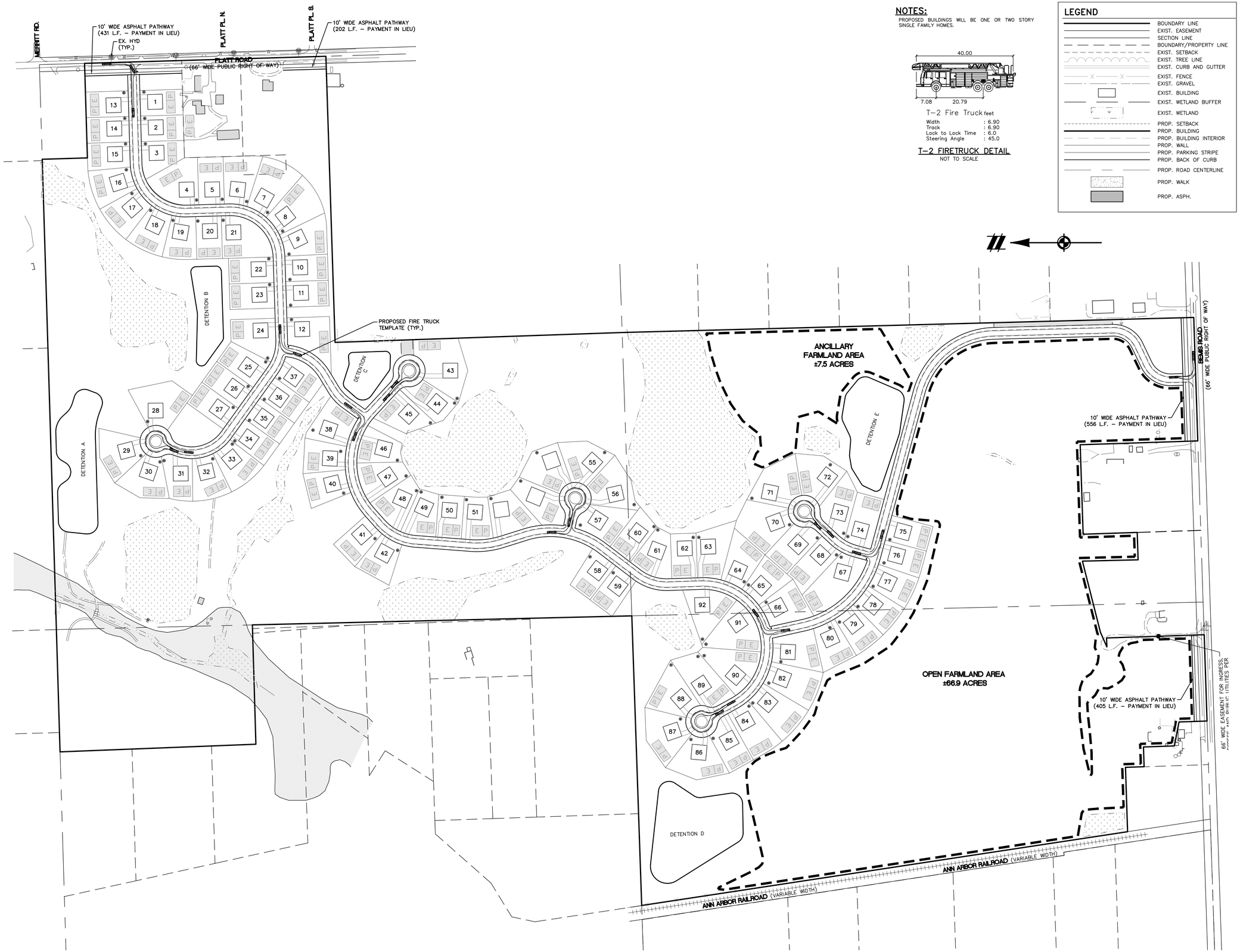
SCALE 0 -- --
NO SCALE

DR. SK | CH. --
P.M. MB
JOB 18003065
SHEET NO. 33

CAD FILE: 18003065SP-09-STM.DWG

K:\18003065 - BILTMORE PLATT RD\DWG\PLAN SETS\SITE-PRELIMINARY\18003065SP-09-STM.DWG 2/25/2020 3:47 PM CHRIS ROTHHAAR

PRELIMINARY - NOT FOR CONSTRUCTION



NOTES:

PROPOSED BUILDINGS WILL BE ONE OR TWO STORY SINGLE FAMILY HOMES.

T-2 Fire Truck feet

Width	: 6.90
Track	: 6.90
Lock to Lock Time	: 6.0
Steering Angle	: 45.0

T-2 FIRETRUCK DETAIL

NOT TO SCALE

LEGEND

- BOUNDARY LINE
- EXIST. EASEMENT
- SECTION LINE
- BOUNDARY/PROPERTY LINE
- EXIST. SETBACK
- EXIST. TREE LINE
- EXIST. CURB AND GUTTER
- EXIST. FENCE
- EXIST. GRAVEL
- EXIST. BUILDING
- EXIST. WETLAND BUFFER
- EXIST. WETLAND
- PROP. SETBACK
- PROP. BUILDING
- PROP. BUILDING INTERIOR
- PROP. WALL
- PROP. PARKING STRIPE
- PROP. BACK OF CURB
- PROP. ROAD CENTERLINE
- PROP. WALK
- PROP. ASPH.

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.

HERITAGE PRESERVE
PRELIMINARY SITE PLAN

FIRE PROTECTION PLAN

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 100 200
1" = 200 FEET

DR. SK CH. --
P.M. MB

JOB 18003065

SHEET NO.
34

CAD FILE: 18003065SP-11-FP.DWG

PRELIMINARY - NOT FOR CONSTRUCTION

Heritage Preserve Tree List

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
3001	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		no	Save	No
3002	*Acer negundo*	Box Elder	ACNE	12.0	Good	No	Yes		no	Save	No
3003	*Pinus resinosa*	Red Pine	PIRE	16.0	Good	No	No		no	Save	No
3004	*Acer negundo*	Box Elder	ACNE	13.5	Good	No	Yes		no	Save	No
3005	*Pinus resinosa*	Red Pine	PIRE	20.5	Good	Yes	No		no	Save	No
3006	*Quercus rubra*	Red Oak	QURU	11.0	Good	No	No		no	Save	No
3007	*Pinus resinosa*	Red Pine	PIRE	14.0	Good	No	No		no	Save	No
3008	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3009	*Pinus resinosa*	Red Pine	PIRE	13.5	Good	No	No		no	Save	No
3010	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Save	No
3011	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		no	Save	No
3012	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		no	Save	No
3013	*Acer negundo*	Box Elder	ACNE	7.5	Good	No	Yes	Multiple trunks (MT): 1.5, 2.5 inches	no	Save	No
3014	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Remove	Yes
3015	*Prunus avium*	Sweet Cherry	PRAV	7.5	Good	No	No		no	Remove	Yes
3016	*Celtis occidentalis*	Hackberry	CEOC	8.0	Good	No	No		no	Remove	Yes
3017	*Quercus rubra*	Red Oak	QURU	7.0	Good	No	No		no	Remove	Yes
3018	*Acer negundo*	Box Elder	ACNE	7.0	Good	No	Yes	MT: 4.5, 2.5	no	Remove	No
3019	*Pinus resinosa*	Red Pine	PIRE	14.0	Good	No	No		no	Remove	Yes
3020	*Pinus resinosa*	Red Pine	PIRE	16.5	Good	No	No		no	Remove	Yes
3021	*Quercus rubra*	Red Oak	QURU	6.5	Good	No	No		no	Remove	Yes
3022	*Pinus resinosa*	Red Pine	PIRE	14.5	Good	No	No		no	Remove	Yes
3023	*Pinus resinosa*	Red Pine	PIRE	15.5	Poor	No	No	Nearly dead	no	Remove	No
3024	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No		no	Remove	Yes
3025	*Ulmus thomasii*	Rock Elm	ULTH	7.5	Good	No	No		yes	Remove	No
3026	*Pinus resinosa*	Red Pine	PIRE	24.5	Good	Yes	No		no	Remove	Yes
3027	*Pinus resinosa*	Red Pine	PIRE	13.5	Good	No	No		no	Remove	Yes
3028	*Ulmus thomasii*	Rock Elm	ULTH	6.5	Good	No	No	MT: 6, 4, 3	no	Remove	Yes
3029	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Remove	Yes
3030	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No	MT: 6	no	Remove	Yes
3031	*Acer negundo*	Box Elder	ACNE	8.0	Good	No	Yes		no	Remove	No
3032	*Pinus resinosa*	Red Pine	PIRE	14.0	Good	No	No		no	Remove	Yes
3033	*Pinus resinosa*	Red Pine	PIRE	15.0	Good	No	No		no	Remove	Yes
3034	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Remove	Yes
3035	*Pinus resinosa*	Red Pine	PIRE	15.0	Good	No	No		no	Remove	Yes
3036	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Remove	Yes
3037	*Pinus resinosa*	Red Pine	PIRE	7.5	Good	No	No		no	Remove	Yes
3038	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		yes	Remove	No
3039	*Pinus resinosa*	Red Pine	PIRE	16.5	Good	No	No		yes	Remove	No
3040	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		yes	Remove	No
3041	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No		yes	Remove	No
3042	*Quercus rubra*	Red Oak	QURU	6.0	Good	No	No		no	Remove	Yes
3043	*Prunus avium*	Sweet Cherry	PRAV	6.5	Good	No	No		no	Remove	Yes
3044	*Quercus rubra*	Red Oak	QURU	9.0	Good	No	No	MT: 6.5	no	Remove	Yes
3045	*Quercus rubra*	Red Oak	QURU	9.0	Good	No	No		no	Remove	Yes
3046	*Pinus resinosa*	Red Pine	PIRE	15.5	Good	No	No		no	Remove	Yes
3047	*Pinus resinosa*	Red Pine	PIRE	13.5	Good	No	No		no	Remove	Yes
3048	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Remove	Yes
3049	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Remove	Yes
3050	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Remove	Yes
3051	*Pinus resinosa*	Red Pine	PIRE	13.5	Good	No	No		no	Remove	Yes
3052	*Quercus rubra*	Red Oak	QURU	8.0	Good	No	No		yes	Remove	No
3053	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No		no	Remove	Yes
3054	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Remove	Yes
3055	*Prunus serotina*	Black Cherry	PRSE	7.0	Good	No	No		no	Remove	Yes
3056	*Prunus serotina*	Black Cherry	PRSE	6.0	Good	No	No		yes	Remove	No
3057	*Ulmus americana*	American Elm	ULAM	15.0	Good	No	Yes		yes	Remove	No
3058	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		yes	Remove	No
3059	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No		no	Remove	Yes
3060	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		yes	Remove	No
3061	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Remove	Yes
3062	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No		no	Remove	Yes
3063	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Remove	Yes
3064	*Prunus serotina*	Black Cherry	PRSE	9.0	Good	No	No		no	Remove	Yes
3065	*Prunus serotina*	Black Cherry	PRSE	8.0	Good	No	No		no	Remove	Yes
3066	*Prunus serotina*	Black Cherry	PRSE	12.5	Poor	No	No	Dying	no	Remove	No
3067	*Acer negundo*	Box Elder	ACNE	16.5	Good	No	Yes		yes	Remove	No
3068	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Remove	Yes
3069	*Pinus resinosa*	Red Pine	PIRE	12.0	Good	No	No		yes	Remove	No
3070	*Prunus avium*	Sweet Cherry	PRAV	8.5	Good	No	No		yes	Remove	No
3071	*Prunus serotina*	Black Cherry	PRSE	7.5	Good	No	No		yes	Remove	No
3072	*Pinus resinosa*	Red Pine	PIRE	13.5	Good	No	No		no	Remove	Yes
3073	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Remove	Yes
3074	*Prunus serotina*	Black Cherry	PRSE	10.0	Good	No	No		yes	Remove	No
3075	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		yes	Remove	No
3076	*Pinus resinosa*	Red Pine	PIRE	15.0	Good	No	No		no	Remove	Yes
3077	*Prunus serotina*	Black Cherry	PRSE	8.0	Good	No	No		yes	Remove	No
3078	*Rhamnus cathartica*	Common Buckthorn	RHCA	6.5	Good	No	Yes	MT: 6, 5	no	Remove	No
3079	*Prunus serotina*	Black Cherry	PRSE	7.0	Good	No	No		no	Save	No
3080	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3081	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3082	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3083	*Pinus resinosa*	Red Pine	PIRE	8.0	Good	No	No		no	Save	No
3084	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3085	*Ulmus americana*	American Elm	ULAM	8.0	Good	No	Yes		no	Remove	No
3086	*Pinus strobus*	White Pine	PIST	16.5	Good	No	No		no	Save	No
3087	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3088	*Pinus strobus*	White Pine	PIST	14.5	Good	No	No		no	Save	No
3089	*Picea pungens*	Blue Spruce	PIPU	7.5	Good	No	No		no	Save	No
3090	*Pinus strobus*	White Pine	PIST	18.0	Good	Yes	No		no	Save	No
3091	*Picea pungens*	Blue Spruce	PIPU	12.0	Good	No	No		no	Save	No
3092	*Pinus strobus*	White Pine	PIST	14.5	Good	No	No		no	Save	No
3093	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3094	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3095	*Lost tag*	Lost Tag	NA	NA	NA				no	Save	No
3096	*Pinus resinosa*	Red Pine	PIRE	9.5	Good	No	No		no	Save	No
3097	*Juglans nigra*	Black Walnut	JUNI	17.5	Good	No	No	MT: 14	no	Remove	Yes
3098	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3099	*Lost tag*	Lost Tag	NA	NA	NA				no	Save	No
3100	*Lost tag*	Lost Tag	NA	NA	NA				no	Save	No
3101	*Pinus strobus*	White Pine	PIST	17.5	Good	No	No		no	Save	No
3102	*Picea pungens*	Blue Spruce	PIPU	9.5	Good	No	No		no	Save	No
3103	*Pinus strobus*	White Pine	PIST	14.5	Good	No	No		no	Save	No
3104	*Pinus strobus*	White Pine	PIST	13.5	Good	No	No		no	Save	No
3105	*Pinus strobus*	White Pine	PIST	17.5	Good	No	No		no	Save	No
3106	*Rhamnus cathartica*	Common Buckthorn	RHCA	6.5	Good	No	Yes		no	Save	No
3107	*Juglans nigra*	Black Walnut	JUNI	7.5	Good	No	No		no	Save	No
3108	*Pinus resinosa*	Red Pine	PIRE	10.0	Poor	No	No		no	Save	No
3109	*Pinus resinosa*	Red Pine	PIRE	13.5	Good	No	No		no	Save	No
3110	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3111	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3112	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3113	*Robinia pseudoacacia*	Black Locust	ROPS	6.0	Good	No	Yes		no	Save	No
3114	*Robinia pseudoacacia*	Black Locust	ROPS	6.5	Good	No	Yes		no	Save	No
3115	*Robinia pseudoacacia*	Black Locust	ROPS	6.0	Good	No	Yes		no	Save	No
3116	*Robinia pseudoacacia*	Black Locust	ROPS	6.0	Good	No	Yes		no	Save	No
3117	*Robinia pseudoacacia*	Black Locust	ROPS	10.0	Good	No	Yes		no	Save	No
3118	*Robinia pseudoacacia*	Black Locust	ROPS	6.5	Good	No	Yes		no	Save	No
3119	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Save	No
3120	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3121	*Quercus rubra*	Red Oak	QURU	13.5	Good	No	No		no	Save	No
3122	*Prunus avium*	Sweet Cherry	PRAV	13.5	Good	No	No		no	Save	No
3123	*Pinus resinosa*	Red Pine	PIRE	8.0	Good	No	No		no	Save	No
3124	*Pinus resinosa*	Red Pine	PIRE	7.0	Good	No	No		no	Save	No
3125	*Pinus resinosa*	Red Pine	PIRE	14.5	Good	No	No		no	Save	No
3126	*Prunus serotina*	Black Cherry	PRSE	7.5	Good	No	No		no	Save	No
3127	*Pinus resinosa*	Red Pine	PIRE	9.5	Good	No	No		no	Save	No
3128	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3129	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3130	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3131	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3132	*Prunus avium*	Sweet Cherry	PRAV	10.5	Good	No	No		no	Save	No
3133	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3134	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3135	*Pinus resinosa*	Red Pine	PIRE	9.5	Good	No	No		no	Save	No
3136	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3137	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3138	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3139	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3140	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3141	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		no	Save	No
3142	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3143	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3144	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3145	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3146	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Save	No
3147	*Prunus serotina*	Black Cherry	PRSE	7.0	Good	No	No		no	Save	No
3148	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3149	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3150	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No

Heritage Preserve Tree List

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
3151	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3152	*Pinus resinosa*	Red Pine	PIRE	6.5	Good	No	No		no	Save	No
3153	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		yes	Remove	No
3154	*Pinus resinosa*	Red Pine	PIRE	7.0	Good	No	No		no	Remove	Yes
3155	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Remove	Yes
3156	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Remove	Yes
3157	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		yes	Remove	No
3158	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		yes	Remove	No
3159	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		yes	Remove	No
3160	*Pinus resinosa*	Red Pine	PIRE	12.0	Good	No	No		yes	Remove	No
3161	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		yes	Remove	No
3162	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		yes	Remove	No
3163	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		yes	Remove	No
3164	*Pinus resinosa*	Red Pine	PIRE	12.0	Good	No	No		yes	Remove	No
3165	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		no	Save	No
3166	*Pinus resinosa*	Red Pine	PIRE	14.0	Good	No	No		no	Save	No
3167	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No	MT: 8.5	no	Save	No
3168	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3169	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3170	*Pinus resinosa*	Red Pine	PIRE	8.5	Good	No	No		no	Save	No
3171	*Pinus resinosa*	Red Pine	PIRE	9.5	Good	No	No		no	Save	No
3172	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3173	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3174	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3175	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3176	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3177	*Prunus serotina*	Black Cherry	PRSE	10.5	Good	No	No		no	Save	No
3178	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3179	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Save	No
3180	*Pinus resinosa*	Red Pine	PIRE	12.0	Good	No	No		no	Save	No
3181	*Pinus resinosa*	Red Pine	PIRE	6.5	Good	No	No		no	Save	No
3182	*Pinus resinosa*	Red Pine	PIRE	9.5	Good	No	No		no	Save	No
3183	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3184	*Quercus rubra*	Red Oak	QURU	8.5	Good	No	No	Possible hybrid with pin oak	no	Save	No
3185	*Pinus resinosa*	Red Pine	PIRE	14.0	Good	No	No		no	Save	No
3186	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3187	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3188	*Pinus resinosa*	Red Pine	PIRE	6.5	Good	No	No		no	Save	No
3189	*Pinus resinosa*	Red Pine	PIRE	8.0	Good	No	No	MT: 7	no	Save	No
3190	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3191	*Pinus resinosa*	Red Pine	PIRE	8.0	Good	No	No		no	Save	No
3192	*Pinus resinosa*	Red Pine	PIRE	6.5	Good	No	No	MT: 6.5	no	Save	No
3193	*Pinus resinosa*	Red Pine	PIRE	6.0	Good	No	No		no	Save	No
3194	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3195	*Pinus resinosa*	Red Pine	PIRE	7.5	Good	No	No		no	Save	No
3196	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Save	No
3197	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3198	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3199	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3200	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3201	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3202	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3203	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3204	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3205	*Pinus resinosa*	Red Pine	PIRE	8.0	Poor	No	No		no	Save	No
3206	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No	Dying	no	Save	No
3207	*Prunus serotina*	Black Cherry	PRSE	6.0	Good	No	No		no	Save	No
3208	*Pinus resinosa*	Red Pine	PIRE	8.5	Good	No	No	MT: 3.5	no	Save	No
3209	*Prunus serotina*	Black Cherry	PRSE	9.0	Poor	No	No		no	Remove	No
3210	*Pinus resinosa*	Red Pine	PIRE	8.0	Good	No	No		no	Remove	Yes
3211	*Pinus resinosa*	Red Pine	PIRE	8.5	Good	No	No		no	Remove	Yes
3212	*Prunus serotina*	Black Cherry	PRSE	7.5	Fair	No	No		yes	Remove	No
3213	*Juglans nigra*	Black Walnut	JUNI	6.5	Good	No	No		yes	Remove	No
3214	*Pinus resinosa*	Red Pine	PIRE	8.5	Good	No	No		no	Remove	Yes
3215	*Pinus resinosa*	Red Pine	PIRE	7.0	Good	No	No		no	Remove	Yes
3216	*Juglans nigra*	Black Walnut	JUNI	18.5	Good	Yes	No		yes	Remove	No
3217	*Juglans nigra*	Black Walnut	JUNI	6.0	Good	No	No		yes	Remove	No
3218	*Quercus rubra*	Red Oak	QURU	8.5	Good	No	No		no	Save	No
3219	*Quercus rubra*	Red Oak	QURU	7.5	Good	No	No		no	Save	No
3220	*Quercus rubra*	Red Oak	QURU	8.0	Good	No	No		no	Save	No
3221	*Prunus serotina*	Black Cherry	PRSE	7.5	Good	No	No		no	Save	No
3222	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Save	No
3223	*Pinus resinosa*	Red Pine	PIRE	14.0	Good	No	No		no	Save	No
3224	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3225	*Pinus resinosa*	Red Pine	PIRE	12.0	Fair	No	No		no	Save	No
3226	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No	Vines	no	Save	No
3227	*Acer saccharum*	Sugar Maple	ACSA	7.0	Good	No	No	MT: 4	no	Save	No
3228	*Fraxinus pennsylvanica*	Green Ash	FRPE	8.0	Fair	No	Yes		no	Save	No
3229	*Ulmus americana*	American Elm	ULAM	6.5	Good	No	Yes		no	Save	No
3230	*Rhamnus cathartica*	Common Buckthorn	RHCA	6.0	Good	No	Yes	MT	no	Save	No
3231	*Juglans nigra*	Black Walnut	JUNI	7.0	Good	No	No	MT: 5	no	Save	No
3232	*Ulmus pumila*	Siberian Elm	ULPU	16.5	Good	No	Yes		no	Save	No
3233	*Ulmus pumila*	Siberian Elm	ULPU	13.5	Fair	No	Yes		no	Save	No
3234	*Ulmus pumila*	Siberian Elm	ULPU	21.5	Good	Yes	Yes		no	Save	No
3235	*Ulmus americana*	American Elm	ULAM	12.0	Good	No	Yes		no	Save	No
3236	*Ulmus americana*	American Elm	ULAM	10.5	Good	No	Yes		no	Save	No
3237	*Ulmus americana*	American Elm	ULAM	10.0	Good	No	Yes		no	Save	No
3238	*Salix nigra*	Black Willow	SANI	9.0	Good	No	Yes		no	Save	No
3239	*Salix nigra*	Black Willow	SANI	10.0	Good	No	Yes		no	Save	No
3240	*Acer saccharum*	Sugar Maple	ACSA	41.0	Good	Yes	No	MT: 23.5	no	Save	No
3241	*Ulmus americana*	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
3242	*Salix nigra*	Black Willow	SANI	9.0	Good	No	Yes		no	Save	No
3243	*Acer saccharum*	Sugar Maple	ACSA	7.0	Good	No	No	MT: 5, 4	no	Save	No
3244	*Salix nigra*	Black Willow	SANI	9.0	Good	No	Yes		no	Save	No
3245	*Salix nigra*	Black Willow	SANI	9.0	Good	No	Yes		no	Save	No
3246	*Prunus serotina*	Black Cherry	PRSE	7.0	Good	No	No		no	Save	No
3247	*Salix nigra*	Black Willow	SANI	10.0	Good	No	No		no	Save	No
3248	*Pinus resinosa*	Red Pine	PIRE	9.5	Fair	No	No		no	Save	No
3249	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3250	*Ulmus americana*	American Elm	ULAM	9.5	Poor	No	Yes		no	Save	No
3251	*Quercus rubra*	Red Oak	QURU	10.0	Good	No	No		no	Save	No
3252	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3253	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		no	Save	No
3254	*Fraxinus pennsylvanica*	Green Ash	FRPE	6.5	Poor	No	Yes	MT: 9	no	Save	No
3255	*Prunus serotina*	Black Cherry	PRSE	6.0	Fair	No	No	MT: 4	no	Save	No
3256	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3257	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3258	*Acer saccharum*	Sugar Maple	ACSA	12.5	Good	No	No	MT: 13, 10, 6.5	no	Save	No
3259	*Ulmus americana*	American Elm	ULAM	8.0	Good	No	Yes		no	Save	No
3260	*Ulmus americana*	American Elm	ULAM	11.0	Good	No	Yes		no	Save	No
3261	*Prunus serotina*	Black Cherry	PRSE	9.0	Fair	No	No		no	Save	No
3262	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		no	Save	No
3263	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		no	Save	No
3264	*Fraxinus pennsylvanica*	Green Ash	FRPE	12.5	Good	No	Yes		no	Save	No
3265	*Ulmus americana*	American Elm	ULAM	16.5	Poor	No	Yes		no	Save	No
3266	*Prunus serotina*	Black Cherry	PRSE	6.0	Good	No	No		no	Save	No
3267	*Pinus resinosa*	Red Pine	PIRE	14.0	Good	No	No		no	Save	No
3268	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3269	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3270	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3271	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3272	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3273	*Pinus resinosa*	Red Pine	PIRE	9.5	Good	No	No		no	Save	No
3274	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3275	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3276	*Pinus resinosa*	Red Pine	PIRE	12.0	Good	No	No		no	Save	No
3277	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
3278	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3279	*Picea pungens*	Blue Spruce	PIPU	6.5	Good	No	No		no	Save	No
3280	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3281	*Pinus resinosa*	Red Pine	PIRE	13.0	Fair	Yes	No		no	Save	No
3282	*Acer saccharum*	Sugar Maple	ACSA	16.0	Good	No	No	MT: 10, 9.5, 11.5	no	Save	No
3283	*Populus deltoides*	Eastern Cottonwood	PODE	17.0	Good	No	No		no	Save	No
3284	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3285	*Picea pungens*	Blue Spruce	PIPU	12.5	Good	No	No		no	Save	No
3286	*Picea pungens*	Blue Spruce	PIPU	12.5	Good	No	No		no	Save	No
3287	*Picea pungens*	Blue Spruce	PIPU	9.5	Good	No	No		no	Save	No
3288	*Picea pungens*	Blue Spruce	PIPU	6.5	Good	No	No		no	Save	No
3289	*Picea pungens*	Blue Spruce	PIPU	7.0	Good	No	No		no	Save	No
3290	*Picea pungens*	Blue Spruce	PIPU	8.5	Good	No	No		no	Save	No
3291	*Picea pungens*	Blue Spruce	PIPU	12.5	Good	No	No		no	Save	No
3292	*Picea pungens*	Blue Spruce	PIPU	7.0	Good	No	No		no	Save	No
3293	*Picea pungens*	Blue Spruce	PIPU	11.5	Good	No	No		no	Save	No
3294	*Picea pungens*	Blue Spruce	PIPU	10.0	Good	No	No		no	Save	No
3295	*Picea pungens*	Blue Spruce	PIPU	6.5	Good	No	No		no	Save	No
3296	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3297	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3298	*Pinus resinosa*	Red Pine	PIRE	9.0	Fair	No	No		no	Save	No
3299	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3300	*Acer saccharum*	Sugar Maple	ACSA	10.0	Good	No	No	MT: 2.5, 2	no	Save	No

Heritage Preserve Tree List

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
3301	*Pinus resinosa*	Red Pine	PIRE	11.0	Fair	No	No		no	Save	No
3302	*Pinus resinosa*	Red Pine	PIRE	12.0	Fair	No	No	Vines	no	Save	No
3303	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Save	No
3304	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3305	*Acer saccharum*	Sugar Maple	ACSA	19.5	Good	Yes	No	MT	no	Save	No
3306	*Salix nigra*	Black Willow	SANI	13.0	Good	No	Yes		no	Save	No
3307	*Pinus resinosa*	Red Pine	PIRE	9.5	Good	No	No		no	Save	No
3308	*Pinus resinosa*	Red Pine	PIRE	14.0	Good	No	No		no	Save	No
3309	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3310	*Pinus resinosa*	Red Pine	PIRE	7.5	Fair	No	No		no	Save	No
3311	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3312	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		no	Save	No
3313	*Pinus resinosa*	Red Pine	PIRE	12.0	Good	No	No		no	Save	No
3314	*Pinus resinosa*	Red Pine	PIRE	10.5	Fair	No	No		no	Save	No
3315	*Pinus resinosa*	Red Pine	PIRE	13.0	Fair	No	No		no	Save	No
3316	*Picea pungens*	Blue Spruce	PIPU	9.0	Fair	No	No		no	Save	No
3317	*Pinus resinosa*	Red Pine	PIRE	13.0	Fair	No	No		no	Save	No
3318	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
3319	*Pinus resinosa*	Red Pine	PIRE	10.0	Fair	No	No		no	Save	No
3320	*Picea pungens*	Blue Spruce	PIPU	6.0	Fair	No	No		no	Save	No
3321	*Picea pungens*	Blue Spruce	PIPU	17.5	Good	No	No		no	Save	No
3322	*Picea pungens*	Blue Spruce	PIPU	7.0	Good	No	No		no	Save	No
3323	*Prunus serotina*	Black Cherry	PRSE	13.0	Good	No	No		no	Save	No
3324	*Lonicera maackii*	Honeysuckle	LOMA	7.0	Good	No	No	MT: 6.5, 6.5, 5	no	Save	No
3325	*Prunus serotina*	Black Cherry	PRSE	7.0	Fair	No	No		no	Save	No
3326	*Ulmus americana*	American Elm	ULAM	13.0	Good	No	Yes		no	Save	No
3327	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes		no	Save	No
3328	*Ulmus americana*	American Elm	ULAM	9.5	Good	No	Yes		no	Save	No
3329	*Ulmus americana*	American Elm	ULAM	13.0	Good	No	Yes		no	Save	No
3330	*Ulmus americana*	American Elm	ULAM	14.5	Good	No	Yes		no	Save	No
3331	*Ulmus americana*	American Elm	ULAM	13.0	Good	No	Yes		no	Save	No
3332	*Ulmus americana*	American Elm	ULAM	9.0	Fair	No	Yes	Vines	no	Save	No
3333	*Ulmus americana*	American Elm	ULAM	11.0	Poor	No	Yes	Vines; MT: 9, 6.5, 4; Dying	no	Save	No
3334	*Ulmus americana*	American Elm	ULAM	7.5	Fair	No	Yes		no	Save	No
3335	*Ulmus pumila*	Siberian Elm	ULPU	28.5	Fair	Yes	Yes		no	Save	No
3336	*Prunus serotina*	Black Cherry	PRSE	10.5	Good	No	No		no	Save	No
3337	*Ulmus americana*	American Elm	ULAM	6.5	Good	No	Yes		no	Save	No
3338	*Ulmus americana*	American Elm	ULAM	7.0	Fair	No	Yes	Vines; MT: 5	no	Save	No
3339	*Prunus serotina*	Black Cherry	PRSE	9.0	Fair	No	No	Vines	no	Save	No
3340	*Ulmus americana*	American Elm	ULAM	8.5	Good	No	Yes		no	Save	No
3341	*Ulmus americana*	American Elm	ULAM	13.0	Good	No	Yes		no	Save	No
3342	*Ulmus americana*	American Elm	ULAM	12.0	Good	No	Yes		no	Save	No
3343	*Prunus serotina*	Black Cherry	PRSE	18.0	Good	Yes	No	MT: 22	no	Save	No
3344	*Ulmus americana*	American Elm	ULAM	13.0	Good	No	Yes		no	Save	No
3345	*Ulmus americana*	American Elm	ULAM	12.0	Good	No	Yes		no	Save	No
3346	*Prunus serotina*	Black Cherry	PRSE	9.0	Good	No	No		no	Save	No
3347	*Ulmus americana*	American Elm	ULAM	9.5	Good	No	Yes		no	Save	No
3348	*Ulmus americana*	American Elm	ULAM	15.0	Good	No	Yes		no	Save	No
3349	*Ulmus americana*	American Elm	ULAM	30.0	Good	Yes	Yes	MT: 6.5	no	Save	No
3350	*Prunus serotina*	Black Cherry	PRSE	10.0	Good	No	No		no	Save	No
3351	*Malus sp.*	Apple	MASP	6.5	Good	No	No	MT: 6	no	Save	No
3352	*Ulmus americana*	American Elm	ULAM	10.0	Good	No	Yes		no	Save	No
3353	*Populus deltoides*	Eastern Cottonwood	PODE	13.0	Good	No	No		no	Save	No
3354	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes		no	Save	No
3355	*Populus deltoides*	Eastern Cottonwood	PODE	61.0	Good	Yes	No		no	Save	No
3356	*Ulmus americana*	American Elm	ULAM	12.5	Good	No	Yes		no	Save	No
3357	*Rhamnus cathartica*	Common Buckthorn	RHCA	12.0	Good	No	Yes	MT: 6	no	Save	No
3358	*Salix nigra*	Black Willow	SANI	14.5	Fair	No	Yes	MT: 4, 4, 3.5, 2	no	Save	No
3359	*Pinus resinosa*	Red Pine	PIRE	9.0	Fair	No	No		no	Save	No
3360	*Pinus resinosa*	Red Pine	PIRE	10.5	Fair	No	No		no	Save	No
3361	*Pinus resinosa*	Red Pine	PIRE	11.0	Fair	No	No		no	Save	No
3362	*Pinus resinosa*	Red Pine	PIRE	13.5	Fair	No	No		no	Save	No
3363	*Pinus resinosa*	Red Pine	PIRE	10.0	Fair	No	No		no	Save	No
3364	*Pinus resinosa*	Red Pine	PIRE	9.5	Fair	No	No		no	Save	No
3365	*Ulmus americana*	American Elm	ULAM	8.0	Good	No	Yes		no	Save	No
3366	*Pinus resinosa*	Red Pine	PIRE	9.0	Poor	No	No		no	Save	No
3367	*Pinus resinosa*	Red Pine	PIRE	7.0	Poor	No	No		no	Save	No
3368	*Ulmus americana*	American Elm	ULAM	10.0	Good	No	Yes		no	Save	No
3369	*Quercus rubra*	Red Oak	QURU	6.0	Good	No	No		no	Save	No
3370	*Quercus rubra*	Red Oak	QURU	6.5	Fair	No	No		no	Save	No
3371	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3372	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3373	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3374	*Prunus avium*	Sweet Cherry	PRAV	7.0	Good	No	No		no	Save	No
3375	*Pinus resinosa*	Red Pine	PIRE	10.0	Good	No	No		no	Save	No
3376	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Save	No
3377	*Acer saccharum*	Sugar Maple	ACSA	21.0	Good	Yes	No	MT: 5	no	Save	No
3378	*Quercus rubra*	Red Oak	QURU	8.0	Good	No	No		no	Save	No
3379	*Pinus resinosa*	Red Pine	PIRE	15.0	Good	No	No		no	Save	No
3380	*Quercus rubra*	Red Oak	QURU	9.0	Good	No	No		no	Save	No
3381	*Pinus resinosa*	Red Pine	PIRE	11.0	Good	No	No		no	Save	No
3382	*Pinus resinosa*	Red Pine	PIRE	10.0	Fair	No	No		no	Save	No
3383	*Quercus rubra*	Red Oak	QURU	11.5	Good	No	No		no	Save	No
3384	*Pinus resinosa*	Red Pine	PIRE	11.5	Fair	No	No		no	Save	No
3385	*Pinus resinosa*	Red Pine	PIRE	12.0	Fair	No	No		no	Save	No
3386	*Pinus resinosa*	Red Pine	PIRE	12.0	Fair	No	No		no	Save	No
3387	*Pinus resinosa*	Red Pine	PIRE	9.0	Fair	No	No		no	Save	No
3388	*Pinus resinosa*	Red Pine	PIRE	13.0	Fair	No	No		no	Save	No
3389	*Quercus rubra*	Red Oak	QURU	10.0	Good	No	No		no	Save	No
3390	*Pinus resinosa*	Red Pine	PIRE	14.0	Fair	No	No		no	Save	No
3391	*Pinus resinosa*	Red Pine	PIRE	11.5	Fair	No	No		no	Save	No
3392	*Pinus resinosa*	Red Pine	PIRE	11.0	Fair	No	No		no	Save	No
3393	*Pinus resinosa*	Red Pine	PIRE	11.0	Fair	No	No		no	Save	No
3394	*Pinus resinosa*	Red Pine	PIRE	14.0	Good	No	No		no	Save	No
3395	*Pinus resinosa*	Red Pine	PIRE	9.0	Poor	No	No	MT: 9	no	Save	No
3396	*Juglans nigra*	Black Walnut	JUNI	6.5	Good	No	No		no	Save	No
3397	*Acer saccharum*	Sugar Maple	ACSA	12.0	Good	No	No	MT: 10.5	no	Save	No
3398	*Quercus rubra*	Red Oak	QURU	6.0	Good	No	No		no	Remove	Yes
3399	*Pinus resinosa*	Red Pine	PIRE	10.5	Fair	No	No		no	Save	No
3400	*Pinus resinosa*	Red Pine	PIRE	12.0	Good	No	No		no	Save	No
3401	*Pinus resinosa*	Red Pine	PIRE	11.0	Fair	No	No		no	Save	No
3402	*Pinus resinosa*	Red Pine	PIRE	10.0	Fair	No	No		no	Remove	Yes
3403	*Pinus resinosa*	Red Pine	PIRE	14.5	Fair	No	No		no	Save	No
3404	*Pinus resinosa*	Red Pine	PIRE	13.5	Fair	No	No		yes	Remove	No
3405	*Pinus resinosa*	Red Pine	PIRE	10.5	Poor	No	No		yes	Remove	No
3406	*Pinus resinosa*	Red Pine	PIRE	9.0	Fair	No	No		no	Remove	Yes
3407	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		no	Remove	Yes
3408	*Pinus resinosa*	Red Pine	PIRE	14.5	Fair	No	No		yes	Remove	No
3409	*Pinus resinosa*	Red Pine	PIRE	11.5	Poor	No	No	Vines	yes	Remove	No
3410	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No		yes	Remove	No
3411	*Pinus resinosa*	Red Pine	PIRE	13.0	Good	No	No		no	Remove	Yes
3412	*Quercus rubra*	Red Oak	QURU	7.5	Good	No	No		yes	Remove	No
3413	*Pinus resinosa*	Red Pine	PIRE	12.5	Fair	No	No		no	Remove	Yes
3414	*Pinus resinosa*	Red Pine	PIRE	13.0	Fair	No	No		no	Remove	Yes
3415	*Pinus resinosa*	Red Pine	PIRE	14.0	Good	No	No		yes	Remove	No
3416	*Acer saccharum*	Sugar Maple	ACSA	7.0	Good	No	No		yes	Remove	No
3417	*Pinus resinosa*	Red Pine	PIRE	11.5	Fair	No	No		no	Remove	Yes
3418	*Pinus resinosa*	Red Pine	PIRE	10.0	Poor	No	No	Vines	yes	Remove	No
3419	*Pinus resinosa*	Red Pine	PIRE	9.0	Fair	No	No	MT: 10.5	yes	Remove	No
3420	*Pinus resinosa*	Red Pine	PIRE	10.0	Fair	No	No		yes	Remove	No
3421	*Pinus resinosa*	Red Pine	PIRE	12.0	Fair	No	No	Vines	yes	Remove	No
3422	*Pinus resinosa*	Red Pine	PIRE	11.0	Fair	No	No		yes	Remove	No
3423	*Pinus resinosa*	Red Pine	PIRE	10.5	Poor	No	No	Vines	yes	Remove	No
3424	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No		no	Save	No
3425	*Pinus resinosa*	Red Pine	PIRE	10.5	Fair	No	No		yes	Remove	No
3426	*Pinus resinosa*	Red Pine	PIRE	9.5	Fair	No	No	MT: 10	no	Remove	Yes
3427	*Pinus resinosa*	Red Pine	PIRE	12.5	Fair	No	No		no	Remove	Yes
3428	*Pinus resinosa*	Red Pine	PIRE	13.0	Fair	No	No	Vines	no	Save	No
3429	*Pinus resinosa*	Red Pine	PIRE	8.5	Poor	No	No		no	Save	No
3430	*Pinus resinosa*	Red Pine	PIRE	10.5	Fair	No	No		no	Save	No
3431	*Pinus resinosa*	Red Pine	PIRE	11.0	Fair	No	No		no	Save	No
3432	*Quercus rubra*	Red Oak	QURU	6.5	Good	No	No	MT: 2.5	no	Save	No
3433	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No	MT: 5.5	no	Save	No
3434	*Prunus serotina*	Black Cherry	PRSE	7.0	Poor	No	No	MT: 4	no	Save	No
3435	*Prunus serotina*	Black Cherry	PRSE	8.0	Good	No	No		no	Save	No
3436	*Prunus avium*	Sweet Cherry	PRAV	11.0	Good	No	No		no	Save	No
3437	*Celtis occidentalis*	Hackberry	CEOC	7.0	Good	No	No		no	Save	No
3438	*Pinus resinosa*	Red Pine	PIRE	15.0	Fair	No	No		no	Save	No
3439	*Pinus resinosa*	Red Pine	PIRE	10.5	Good	No	No		no	Save	No
3440	*Quercus rubra*	Red Oak	QURU	7.0	Good	No	No		no	Save	No
3441	*Quercus rubra*	Red Oak	QURU	6.0	Good	No	No		no	Save	No
3442	*Pinus resinosa*	Red Pine	PIRE	12.5	Good	No	No		no	Save	No
3443	*Ulmus americana*	American Elm	ULAM	8.0	Good	No	Yes		no	Save	No
3444	*Pinus resinosa*	Red Pine	PIRE	12.5	Poor	No	No		no	Save	No
3445	*Prunus serotina*	Black Cherry	PRSE	12.5	Poor	No	No		no	Save	No
3446	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No	Vines; leaning	no	Save	No
3447	*Quercus rubra*	Red Oak	QURU	17.5	Good	Yes	No		no	Save	No
3448	*Pinus resinosa*	Red Pine	PIRE	10.0	Poor	No	No		no	Save	No
3449	*Pinus resinosa*	Red Pine	PIRE	12.0	Poor	No	No		no	Save	No
3450	*Quercus rubra*	Red Oak	QURU	6.0	Good	No	No		no	Save	No

Heritage Preserve Tree List

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
3451	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No		no	Save	No
3452	*Quercus rubra*	Red Oak	QURU	8.5	Good	No	No		no	Save	No
3453	*Pinus resinosa*	Red Pine	PIRE	12.0	Poor	No	No	Dying	no	Save	No
3454	*Pinus resinosa*	Red Pine	PIRE	10.0	Poor	No	No	Dying	no	Save	No
3455	*Pinus resinosa*	Red Pine	PIRE	10.0	Fair	No	No		no	Save	No
3456	*Prunus serotina*	Black Cherry	PRSE	9.0	Fair	No	No		no	Save	No
3457	*Quercus rubra*	Red Oak	QURU	18.5	Good	Yes	No		no	Save	No
3458	*Pinus resinosa*	Red Pine	PIRE	9.5	Poor	No	No	Dying	no	Save	No
3459	*Pinus resinosa*	Red Pine	PIRE	9.5	Poor	No	No	Dying	no	Save	No
3460	*Quercus rubra*	Red Oak	QURU	13.5	Good	No	No		no	Save	No
3461	*Quercus rubra*	Red Oak	QURU	11.0	Good	No	No		no	Save	No
3462	*Pinus resinosa*	Red Pine	PIRE	13.0	Poor	No	No	Dying	no	Save	No
3463	*Pinus resinosa*	Red Pine	PIRE	9.5	Poor	No	No	Dying	no	Save	No
3464	*Prunus serotina*	Black Cherry	PRSE	6.0	Fair	No	No		no	Save	No
3465	*Rhamnus cathartica*	Common Buckthorn	RHCA	9.0	Good	No	Yes	MT	no	Save	No
3466	*Pinus resinosa*	Red Pine	PIRE	11.5	Fair	No	No		no	Save	No
3467	*Pinus resinosa*	Red Pine	PIRE	13.5	Poor	No	No		no	Save	No
3468	*Ulmus pumila*	Siberian Elm	ULPU	12.0	Fair	No	Yes	MT: 10	no	Save	No
3469	*Juglans nigra*	Black Walnut	JUNI	7.0	Good	No	No		no	Save	No
3470	*Ulmus pumila*	Siberian Elm	ULPU	11.5	Fair	No	Yes		no	Save	No
3471	*Juglans nigra*	Black Walnut	JUNI	7.5	Good	No	No	MT: 5.5	no	Save	No
3472	*Juglans nigra*	Black Walnut	JUNI	10.0	Fair	No	No		no	Save	No
3473	*Ulmus pumila*	Siberian Elm	ULPU	7.5	Poor	No	Yes	MT: 5.5	no	Save	No
3474	*Ulmus pumila*	Siberian Elm	ULPU	10.0	Fair	No	Yes		no	Save	No
3475	*Ulmus pumila*	Siberian Elm	ULPU	8.5	Poor	No	Yes	MT: 5.5	no	Save	No
3476	*Ulmus pumila*	Siberian Elm	ULPU	20.0	Fair	Yes	Yes	MT: 10	no	Save	No
3477	*Acer saccharinum*	Silver Maple	ACSAN	8.0	Good	No	Yes	MT	no	Save	No
3478	*Ulmus pumila*	Siberian Elm	ULPU	8.0	Poor	No	Yes		no	Save	No
3479	*Ulmus pumila*	Siberian Elm	ULPU	7.0	Poor	No	Yes		no	Save	No
3480	*Ulmus pumila*	Siberian Elm	ULPU	20.0	Fair	Yes	Yes		no	Save	No
3481	*Acer negundo*	Box Elder	ACNE	8.0	Fair	No	Yes	Vines; MT: 6.5, 6; dead trunks	no	Save	No
3482	*Acer saccharinum*	Silver Maple	ACSAN	12.5	Fair	No	Yes	Vines; MT: 7.5, 6.5, 9, 12, 12; dead trunks	no	Save	No
3483	*Ulmus pumila*	Siberian Elm	ULPU	10.0	Fair	No	Yes		yes	Remove	No
3484	*Ulmus pumila*	Siberian Elm	ULPU	7.5	Fair	No	Yes		no	Remove	No
3485	*Ulmus pumila*	Siberian Elm	ULPU	9.0	Fair	No	Yes		no	Remove	No
3486	*Ulmus pumila*	Siberian Elm	ULPU	11.0	Fair	No	Yes		no	Save	No
3487	*Juglans nigra*	Black Walnut	JUNI	7.0	Good	No	No		no	Save	No
3488	*Acer negundo*	Box Elder	ACNE	8.0	Good	No	Yes	MT: 7	no	Save	No
3489	*Carya ovata*	Shagbark Hickory	CAOV	11.0	Good	No	No		no	Save	No
3490	*Quercus palustris*	Pin Oak	QUPA	9.0	Good	No	No		no	Save	No
3491	*Carya ovata*	Shagbark Hickory	CAOV	7.0	Good	No	No	MT: 5	no	Save	No
3492	*Carya ovata*	Shagbark Hickory	CAOV	13.5	Good	No	No		no	Save	No
3493	*Carya ovata*	Shagbark Hickory	CAOV	11.0	Good	No	No		no	Save	No
3494	*Ulmus pumila*	Siberian Elm	ULPU	6.0	Fair	No	Yes		no	Save	No
3495	*Acer negundo*	Box Elder	ACNE	8.0	Good	No	Yes		yes	Remove	No
3496	*Prunus serotina*	Black Cherry	PRSE	8.5	Fair	No	No	MT: 4.5, 3, 4.5	yes	Remove	No
3497	*Acer negundo*	Box Elder	ACNE	6.5	Good	No	Yes	MT: 4.5	yes	Remove	No
3498	*Populus deltoides*	Eastern Cottonwood	PODE	34.0	Good	Yes	No	MT: 28.5	yes	Remove	No
3499	*Ulmus americana*	American Elm	ULAM	6.5	Good	No	Yes		yes	Remove	No
3500	*Prunus serotina*	Black Cherry	PRSE	7.0	Good	No	No	MT: 6.5	yes	Remove	No
3501	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No		no	Remove	Yes
3502	*Acer negundo*	Box Elder	ACNE	7.0	Good	No	Yes	MT: 6	yes	Remove	No
3503	*Acer negundo*	Box Elder	ACNE	7.0	Good	No	Yes	MT: 6; dead branches	no	Remove	No
3504	*Picea pungens*	Blue Spruce	PIPU	9.5	Fair	No	No		no	Save	No
3505	*Picea pungens*	Blue Spruce	PIPU	7.0	Fair	No	No		no	Save	No
3506	*Acer negundo*	Box Elder	ACNE	7.0	Good	No	Yes		no	Save	No
3507	*Picea pungens*	Blue Spruce	PIPU	7.0	Fair	No	No		no	Save	No
3508	*Prunus serotina*	Black Cherry	PRSE	8.0	Good	No	No		no	Save	No
3509	*Picea pungens*	Blue Spruce	PIPU	8.0	Fair	No	No		no	Save	No
3510	*Picea pungens*	Blue Spruce	PIPU	9.0	Fair	No	No		no	Save	No
3511	*Acer negundo*	Box Elder	ACNE	7.0	Good	No	Yes		no	Save	No
3512	*Picea pungens*	Blue Spruce	PIPU	16.0	Good	No	No	MT: 9	no	Save	No
3513	*Acer negundo*	Box Elder	ACNE	8.0	Poor	No	Yes	MT: 8, 4, 5; dead trunks	no	Save	No
3514	*Picea pungens*	Blue Spruce	PIPU	10.0	Fair	No	No	MT: 6	no	Save	No
3515	*Ulmus pumila*	Siberian Elm	ULPU	14.0	Fair	No	Yes		no	Save	No
3516	*Ulmus pumila*	Siberian Elm	ULPU	6.0	Fair	No	Yes		no	Save	No
3517	*Ulmus pumila*	Siberian Elm	ULPU	18.0	Fair	Yes	Yes		no	Save	No
3518	*Prunus serotina*	Black Cherry	PRSE	14.5	Good	No	No		no	Save	No
3519	*Acer negundo*	Box Elder	ACNE	6.5	Good	No	Yes		no	Save	No
3520	*Quercus rubra*	Red Oak	QURU	8.5	Good	No	No		no	Save	No
3521	*Ulmus pumila*	Siberian Elm	ULPU	7.5	Poor	No	Yes	MT: 4	no	Save	No
3522	*Picea pungens*	Blue Spruce	PIPU	14.0	Fair	No	No		no	Save	No
3523	*Ulmus pumila*	Siberian Elm	ULPU	7.5	Poor	No	Yes	MT: 7	no	Save	No
3524	*Ulmus pumila*	Siberian Elm	ULPU	7.0	Poor	No	Yes	MT: 6.5	no	Save	No
3525	*Picea pungens*	Blue Spruce	PIPU	13.0	Fair	No	No		no	Save	No
3526	*Ulmus pumila*	Siberian Elm	ULPU	9.0	Fair	No	Yes		no	Save	No
3527	*Ulmus pumila*	Siberian Elm	ULPU	7.5	Poor	No	Yes		no	Save	No
3528	*Acer negundo*	Box Elder	ACNE	8.0	Fair	No	Yes	MT: 2.5	no	Save	No
3529	*Pinus resinosa*	Red Pine	PIRE	10.0	Fair	No	No		no	Save	No
3530	*Pinus resinosa*	Red Pine	PIRE	6.5	Fair	No	No		no	Save	No
3531	*Pinus resinosa*	Red Pine	PIRE	8.5	Fair	No	No		no	Remove	Yes
3532	*Pinus resinosa*	Red Pine	PIRE	6.5	Fair	No	No		yes	Remove	No
3533	*Ulmus pumila*	Siberian Elm	ULPU	13.0	Fair	No	Yes		yes	Remove	No
3534	*Prunus avium*	Sweet Cherry	PRAV	8.0	Good	No	No		yes	Remove	No
3535	*Pinus resinosa*	Red Pine	PIRE	7.5	Good	No	No		yes	Remove	No
3536	*Pinus resinosa*	Red Pine	PIRE	8.5	Good	No	No		yes	Remove	No
3537	*Pinus resinosa*	Red Pine	PIRE	9.0	Good	No	No		yes	Remove	No
3538	*Pinus resinosa*	Red Pine	PIRE	8.0	Good	No	No		yes	Remove	No
3539	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes	MT: 5.5	yes	Remove	No
3540	*Pinus resinosa*	Red Pine	PIRE	6.0	Good	No	No		yes	Remove	No
3541	*Pinus resinosa*	Red Pine	PIRE	7.0	Good	No	No		yes	Remove	No
3542	*Pinus resinosa*	Red Pine	PIRE	8.5	Good	No	No		yes	Remove	No
3543	*Juglans nigra*	Black Walnut	JUNI	6.5	Good	No	No	MT: 5.5, 5.5	no	Remove	Yes
3544	*Pinus resinosa*	Red Pine	PIRE	8.0	Fair	No	No		no	Save	No
3545	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes		no	Save	No
3546	*Juglans nigra*	Black Walnut	JUNI	9.0	Good	No	No		no	Remove	Yes
3547	*Ulmus pumila*	Siberian Elm	ULPU	8.0	Fair	No	Yes		no	Remove	No
3548	*Juglans nigra*	Black Walnut	JUNI	8.5	Good	No	No	MT: 6	no	Remove	Yes
3549	*Picea pungens*	Blue Spruce	PIPU	13.5	Fair	No	No		no	Save	Yes*
3550	*Juglans nigra*	Black Walnut	JUNI	11.5	Good	No	No		no	Save	Yes*
3551	*Picea pungens*	Blue Spruce	PIPU	13.5	Fair	No	No		no	Save	Yes*
3552	*Ulmus pumila*	Siberian Elm	ULPU	25.0	Fair	Yes	Yes		no	Save	No
3553	*Ulmus pumila*	Siberian Elm	ULPU	42.5	Fair	Yes	Yes		no	Save	No
3554	*Ulmus pumila*	Siberian Elm	ULPU	30.5	Fair	Yes	Yes	Dead trunk	no	Save	No
3555	*Ulmus pumila*	Siberian Elm	ULPU	35.5	Fair	Yes	Yes	Dead trunk	no	Save	No
3556	*Picea pungens*	Blue Spruce	PIPU	13.5	Fair	No	No		no	Save	No
3557	*Picea pungens*	Blue Spruce	PIPU	11.0	Fair	No	No		no	Save	No
3558	*Pinus resinosa*	Red Pine	PIRE	12.0	Fair	No	No		no	Save	No
3559	*Acer negundo*	Box Elder	ACNE	7.5	Good	No	Yes	MT: 6	no	Save	No
3560	*Acer negundo*	Box Elder	ACNE	9.5	Good	No	Yes	MT: 4, 4	no	Save	No
3561	*Pinus resinosa*	Red Pine	PIRE	10.5	Fair	No	No		no	Save	No
3562	*Pinus resinosa*	Red Pine	PIRE	10.5	Fair	No	No		no	Save	No
3563	*Pinus resinosa*	Red Pine	PIRE	12.0	Fair	No	No		no	Save	No
3564	*Pinus resinosa*	Red Pine	PIRE	11.0	Fair	No	No		no	Save	No
3565	*Pinus resinosa*	Red Pine	PIRE	12.5	Poor	No	No	Vines	no	Save	No
3566	*Acer negundo*	Box Elder	ACNE	7.0	Good	No	Yes	MT: 7.5, 6	no	Save	No
3567	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes		no	Save	No
3568	*Pinus resinosa*	Red Pine	PIRE	12.5	Poor	No	No		no	Save	No
3569	*Acer negundo*	Box Elder	ACNE	8.0	Good	No	Yes	MT: 6	no	Save	No
3570	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes	MT: 4.5	no	Save	No
3571	*Acer negundo*	Box Elder	ACNE	10.0	Good	No	Yes	MT: 8.5	no	Save	No
3572	*Pinus resinosa*	Red Pine	PIRE	12.0	Fair	No	No		no	Save	No
3573	*Pinus resinosa*	Red Pine	PIRE	11.0	Fair	No	No		no	Save	No
3574	*Acer negundo*	Box Elder	ACNE	8.0	Good	No	Yes	MT: 4.5, 5.5	no	Save	No
3575	*Acer negundo*	Box Elder	ACNE	7.0	Good	No	Yes		no	Save	No
3576	*Pinus resinosa*	Red Pine	PIRE	10.0	Poor	No	No	MT: 6	no	Save	No
3577	*Pinus resinosa*	Red Pine	PIRE	12.0	Poor	No	No		no	Save	No
3578	*Pinus resinosa*	Red Pine	PIRE	11.5	Fair	No	No		no	Save	No
3579	*Acer negundo*	Box Elder	ACNE	6.5	Good	No	Yes		no	Save	No
3580	*Pinus resinosa*	Red Pine	PIRE	8.5	Poor	No	No		no	Save	No
3581	*Pinus resinosa*	Red Pine	PIRE	12.0	Poor	No	No		no	Save	No
3582	*Pinus resinosa*	Red Pine	PIRE	14.5	Poor	No	No	Vines	no	Save	No
3583	*Acer negundo*	Box Elder	ACNE	10.0	Fair	No	Yes	MT: 4.5	no	Save	No
3584	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes	MT: 5, 2	no	Save	No
3585	*Pinus resinosa*	Red Pine	PIRE	13.5	Fair	No	No		no	Save	No
3586	*Pinus resinosa*	Red Pine	PIRE	14.0	Poor	No	No	Vines	no	Save	No
3587	*Pinus resinosa*	Red Pine	PIRE	12.5	Poor	No	No	Vines	no	Save	No
3588	*Ulmus rubra*	Slippery Elm	ULRU	6.5	Fair	No	No	Diseased	no	Save	No
3589	*Ulmus rubra*	Slippery Elm	ULRU	9.5	Fair	No	No	MT: 8; diseased	no	Save	No
3590	*Ulmus rubra*	Slippery Elm	ULRU	7.5	Fair	No	No	Diseased	no	Save	No
3591	*Pinus resinosa*	Red Pine	PIRE	14.0	Fair	No	No		no	Save	No
3592	*Pinus resinosa*	Red Pine	PIRE	10.0	Poor	No	No		no	Save	No
3593	*Pinus resinosa*	Red Pine	PIRE	14.5	Poor	No	No	Vines	no	Save	No
3594	*Quercus rubra*	Red Oak	QURU	10.0	Good	No	No	MT: 6	no	Save	No
3595	*Ulmus rubra*	Slippery Elm	ULRU	7.0	Fair	No	No		no	Save	No
3596	*Acer negundo*	Box Elder	ACNE	7.5	Good	No	No		no	Save	No
3597	*Acer negundo*	Box Elder	ACNE	8.5	Good	No	Yes		no	Save	No
3598	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes		no	Save	No
3599	*Carya ovata*	Shagbark Hickory	CAOV	22.0	Good	Yes	No	MT: 7, 8.5, 12	no	Save	No
3600	*Acer saccharum*	Sugar Maple	ACSA	17.0	Good	Yes	No		no	Save	No

811
Know what's **below.**
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

TREE LIST

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 -- --
AS NOTED

DR. SK | CH. --
P.M. MB

JOB 18003065
SHEET NO.

CAD FILE: 18003065SP-13-TREE.DWG

K:\18003065 – BILTMORE PLATT RD\DWG\PLAN SETS\SITE–PRELIMINARY\18003065SP–13–TREE.DWG 2/25/2020 3:47 PM CHRIS ROTHHAAR

PRELIMINARY - NOT FOR CONSTRUCTION

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
3601	Acer negundo	Box Elder	ACNE	15.0	Good	No	Yes		no	Save	No
3602	Prunus serotina	Black Cherry	PRSE	10.5	Good	No	No		no	Save	No
3603	Prunus serotina	Black Cherry	PRSE	6.5	Good	No	No		no	Save	No
3604	Carya ovata	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
3605	Carya ovata	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Save	No
3606	Carya ovata	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
3607	Prunus serotina	Black Cherry	PRSE	6.5	Good	No	No		no	Save	No
3608	Prunus serotina	Black Cherry	PRSE	12.5	Good	No	No		no	Save	No
3609	Acer negundo	Box Elder	ACNE	12.5	Good	No	Yes		no	Save	No
3610	Prunus serotina	Black Cherry	PRSE	11.5	Good	No	No		no	Save	No
3611	Carya ovata	Shagbark Hickory	CAOV	9.5	Good	No	No		no	Save	No
3612	Prunus serotina	Black Cherry	PRSE	19.0	Good	Yes	No		no	Save	No
3613	Quercus rubra	Red Oak	QURU	15.5	Good	No	No		no	Save	No
3614	Prunus serotina	Black Cherry	PRSE	11.5	Fair	No	No		no	Save	No
3615	Prunus serotina	Black Cherry	PRSE	17.5	Good	No	No		no	Save	No
3616	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
3617	Malus sp.	Apple	MASP	8.0	Good	No	No	MT: 5.5	no	Save	No
3618	Prunus serotina	Black Cherry	PRSE	18.5	Good	Yes	No		no	Save	No
3619	Prunus serotina	Black Cherry	PRSE	10.5	Poor	No	No		no	Save	No
3620	Prunus serotina	Black Cherry	PRSE	13.0	Fair	No	No		no	Save	No
3621	Craetaegus sp.	Hawthorn	CRSP	7.5	Fair	No	No	MT	no	Save	No
3622	Prunus serotina	Black Cherry	PRSE	17.0	Fair	No	No	MT: 14.5	no	Save	No
3623	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No		no	Save	No
3624	Prunus serotina	Black Cherry	PRSE	6.5	Good	No	No		no	Save	No
3625	Quercus alba	White Oak	QUAL	20.0	Good	Yes	No		no	Save	No
3626	Carya glabra	Pignut Hickory	CAGL	10.0	Good	No	No		no	Save	No
3627	Acer negundo	Box Elder	ACNE	14.5	Good	No	Yes		no	Save	No
3628	Prunus serotina	Black Cherry	PRSE	13.0	Good	No	No		no	Save	No
3629	Acer negundo	Box Elder	ACNE	8.5	Good	No	Yes		no	Save	No
3630	Prunus serotina	Black Cherry	PRSE	24.5	Good	Yes	No	MT: 16.5	no	Save	No
3631	Prunus serotina	Black Cherry	PRSE	21.0	Good	Yes	No		no	Save	No
3632	Prunus serotina	Black Cherry	PRSE	28.0	Good	Yes	No	MT: 7	no	Save	No
3633	Prunus serotina	Black Cherry	PRSE	10.5	Fair	No	No		no	Save	No
3634	Prunus serotina	Black Cherry	PRSE	10.5	Good	No	No		no	Save	No
3635	Prunus serotina	Black Cherry	PRSE	11.5	Fair	No	No		no	Save	No
3636	Carya ovata	Shagbark Hickory	CAOV	28.0	Good	Yes	No		no	Save	No
3637	Prunus serotina	Black Cherry	PRSE	13.0	Good	No	No		no	Save	No
3638	Prunus serotina	Black Cherry	PRSE	6.0	Fair	No	No		no	Save	No
3639	Prunus serotina	Black Cherry	PRSE	15.0	Fair	No	No		no	Save	No
3640	Prunus serotina	Black Cherry	PRSE	26.5	Poor	Yes	No		no	Save	No
3641	Ulmus americana	American Elm	ULAM	13.0	Good	No	Yes		no	Save	No
3642	Carya ovata	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
3643	Prunus serotina	Black Cherry	PRSE	18.5	Good	Yes	No		no	Save	No
3644	Prunus serotina	Black Cherry	PRSE	7.5	Poor	No	No		no	Save	No
3645	Carya glabra	Pignut Hickory	CAGL	15.5	Good	No	No	MT: 11.5, 9	no	Save	No
3646	Prunus serotina	Black Cherry	PRSE	17.5	Fair	No	No	MT: 16	no	Save	No
3647	Carya ovata	Shagbark Hickory	CAOV	10.5	Good	No	No		no	Save	No
3648	Prunus serotina	Black Cherry	PRSE	10.0	Poor	No	No	MT: 11.5	no	Save	No
3649	Prunus serotina	Black Cherry	PRSE	12.5	Fair	No	No		no	Save	No
3650	Carya glabra	Pignut Hickory	CAGL	7.0	Good	No	No		no	Save	No
3651	Prunus serotina	Black Cherry	PRSE	11.5	Fair	No	No		no	Save	No
3652	Prunus serotina	Black Cherry	PRSE	12.5	Fair	No	No		no	Save	No
3653	Malus sp.	Apple	MASP	10.0	Good	No	No	MT	no	Save	No
3654	Carya ovata	Shagbark Hickory	CAOV	13.5	Good	No	No		no	Save	No
3655	Carya ovata	Shagbark Hickory	CAOV	8.5	Good	No	No		no	Save	No
3656	Carya ovata	Shagbark Hickory	CAOV	16.5	Good	Yes	No		no	Save	No
3657	Carya glabra	Pignut Hickory	CAGL	12.0	Good	No	No		no	Save	No
3658	Prunus serotina	Black Cherry	PRSE	12.5	Good	No	No	MT: 12.5, 11	no	Save	No
3659	Carya ovata	Shagbark Hickory	CAOV	14.0	Good	No	No		no	Save	No
3660	Prunus serotina	Black Cherry	PRSE	9.0	Fair	No	No	MT: 8.5	no	Save	No
3661	Prunus serotina	Black Cherry	PRSE	8.0	Fair	No	No		no	Save	No
3662	Prunus serotina	Black Cherry	PRSE	9.0	Poor	No	No		no	Save	No
3663	Prunus serotina	Black Cherry	PRSE	8.5	Fair	No	No		no	Save	No
3664	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No	MT: 3	no	Save	No
3665	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
3666	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No	MT: 10	no	Save	No
3667	Craetaegus sp.	Hawthorn	CRSP	8.0	Good	No	No	MT: 4	no	Save	No
3668	Carya ovata	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	No
3669	Quercus alba	White Oak	QUAL	18.0	Good	Yes	No		no	Save	No
3670	Carya ovata	Shagbark Hickory	CAOV	8.0	Good	No	No	MT: 6.5	no	Save	No
3671	Carya ovata	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
3672	Carya ovata	Shagbark Hickory	CAOV	9.5	Good	No	No		no	Save	No
3673	Prunus serotina	Black Cherry	PRSE	11.5	Good	No	No		no	Save	No
3674	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No	MT: 12, 7.5	no	Save	No
3675	Carya ovata	Shagbark Hickory	CAOV	8.5	Good	No	No	MT: 7	no	Save	No
3676	Carya ovata	Shagbark Hickory	CAOV	11.5	Good	No	No		no	Save	No
3677	Carya ovata	Shagbark Hickory	CAOV	14.0	Good	No	No		no	Save	No
3678	Carya ovata	Shagbark Hickory	CAOV	17.5	Good	Yes	No	MT: 9	no	Save	No
3679	Carya ovata	Shagbark Hickory	CAOV	11.5	Good	No	No	MT: 10	no	Save	No
3680	Carya ovata	Shagbark Hickory	CAOV	15.5	Good	No	No		no	Save	No
3681	Prunus serotina	Black Cherry	PRSE	8.5	Fair	No	No		no	Save	No
3682	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No		no	Save	No
3683	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
3684	Prunus serotina	Black Cherry	PRSE	11.0	Poor	No	No		no	Save	No
3685	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No		no	Save	No
3686	Carya ovata	Shagbark Hickory	CAOV	13.0	Good	No	No		no	Save	No
3687	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
3688	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
3689	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
3690	Carya ovata	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Save	No
3691	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
3692	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
3693	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No		no	Save	No
3694	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
3695	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No	MT: 5.5	no	Save	No
3696	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No		no	Save	No
3697	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No	MT: 6.5	no	Save	No
3698	Carya ovata	Shagbark Hickory	CAOV	17.5	Good	Yes	No		no	Save	No
3699	Carya ovata	Shagbark Hickory	CAOV	13.0	Good	No	No		no	Save	No
3700	Carya ovata	Shagbark Hickory	CAOV	24.0	Good	Yes	No		no	Save	No
3701	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
3702	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
3703	Carya ovata	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
3704	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
3705	Carya ovata	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	No
3706	Carya ovata	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
3707	Carya ovata	Shagbark Hickory	CAOV	8.5	Fair	No	No	Dead trunk	no	Save	No
3708	Carya ovata	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
3709	Carya ovata	Shagbark Hickory	CAOV	8.0	Good	No	No	MT: 4	no	Save	No
3710	Carya ovata	Shagbark Hickory	CAOV	10.5	Good	No	No	MT: 9.5	no	Save	No
3711	Carya ovata	Shagbark Hickory	CAOV	11.5	Good	No	No		no	Save	No
3712	Carya ovata	Shagbark Hickory	CAOV	12.0	Good	No	No		no	Save	No
3713	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
3714	Carya ovata	Shagbark Hickory	CAOV	24.5	Good	Yes	No		no	Save	No
3715	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No		no	Save	No
3716	Carya glabra	Pignut Hickory	CAGL	26.5	Good	Yes	No		no	Save	No
3717	Quercus rubra	Red Oak	QURU	22.0	Good	Yes	No		no	Save	No
3718	Carya ovata	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
3719	Tilia americana	American Basswood	TIAM	9.5	Good	No	No	MT: 6	no	Save	No
3720	Carya ovata	Shagbark Hickory	CAOV	9.5	Good	No	No		no	Save	No
3721	Quercus rubra	Red Oak	QURU	15.0	Good	No	No		no	Save	No
3722	Carya ovata	Shagbark Hickory	CAOV	12.5	Good	No	No		no	Save	No
3723	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No		no	Save	No
3724	Tilia americana	American Basswood	TIAM	9.0	Good	No	No		no	Save	No
3725	Tilia americana	American Basswood	TIAM	11.5	Good	No	No		no	Save	No
3726	Carya ovata	Shagbark Hickory	CAOV	12.0	Good	No	No		no	Save	No
3727	Carya ovata	Shagbark Hickory	CAOV	12.0	Good	No	No		no	Save	No
3728	Prunus avium	Sweet Cherry	PRAV	11.5	Good	No	No	MT: 10.5	no	Save	No
3729	Prunus avium	Sweet Cherry	PRAV	10.0	Good	No	No		no	Save	No
3730	Quercus rubra	Red Oak	QURU	6.5	Good	No	No		no	Save	No
3731	Carya ovata	Shagbark Hickory	CAOV	16.5	Good	Yes	No		no	Save	No
3732	Carya ovata	Shagbark Hickory	CAOV	18.5	Good	Yes	No		no	Save	No
3733	Carya ovata	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
3734	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No		no	Save	No
3735	Carya ovata	Shagbark Hickory	CAOV	10.5	Good	No	No		no	Save	No
3736	Tilia americana	American Basswood	TIAM	11.5	Good	No	No	MT: 4	no	Save	No
3737	Prunus serotina	Black Cherry	PRSE	15.5	Fair	No	No		no	Save	No
3738	Carya ovata	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
3739	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
3740	Carya ovata	Shagbark Hickory	CAOV	13.0	Good	No	No		no	Save	No
3741	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
3742	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
3743	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No		no	Save	No
3744	Prunus serotina	Black Cherry	PRSE	8.5	Poor	No	No		no	Save	No
3745	Carya ovata	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	No
3746	Carya glabra	Pignut Hickory	CAGL	18.0	Good	Yes	No		no	Save	No
3747	Carya ovata	Shagbark Hickory	CAOV	8.5	Good	No	No		no	Save	No
3748	Carya ovata	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
3749	Carya glabra	Pignut Hickory	CAGL	8.0	Good	No	No	MT: 7, 4.5, 3.5	no	Save	No
3750	Carya ovata	Shagbark Hickory	CAOV	8.5	Good	No	No		no	Save	No

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
3751	Carya ovata	Shagbark Hickory	CAOV	16.5	Good	Yes	No	MT: 4	no	Save	No
3752	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		yes	Remove	No
3753	Carya ovata	Shagbark Hickory	CAOV	18.0	Good	Yes	No		no	Remove	Yes
3754	Carya ovata	Shagbark Hickory	CAOV	30.0	Good	Yes	No		yes	Remove	No
3755	Carya ovata	Shagbark Hickory	CAOV	27.5	Good	Yes	No		yes	Remove	No
3756	Prunus serotina	Black Cherry	PRSE	7.0	Good	No	No		yes	Remove	No
3757	Carya ovata	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	No
3758	Quercus rubra	Red Oak	QURU	7.0	Good	No	No		no	Save	No
3759	Prunus serotina	Black Cherry	PRSE	7.0	Poor	No	No		no	Save	No
3760	Prunus avium	Sweet Cherry	PRAV	13.5	Fair	No	No		no	Save	No
3761	Prunus avium	Sweet Cherry	PRAV	7.0	Good	No	No		no	Save	No
3762	Tilia americana	American Basswood	TIAM	13.0	Good	No	No	MT: 12.5, 2.5, 3.5	no	Save	No
3763	Carya ovata	Shagbark Hickory	CAOV	13.0	Good	No	No	MT: 11	no	Save	No
3764	Carya glabra	Pignut Hickory	CAGL	6.0	Good	No	No		no	Save	No
3765	Prunus serotina	Black Cherry	PRSE	8.5	Good	No	No		no	Save	No
3766	Carya ovata	Shagbark Hickory	CAOV	11.5	Good	No	No	MT: 9	no	Save	No
3767	Carya ovata	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Save	No
3768	Quercus alba	White Oak	QUAL	15.5	Good	No	No		no	Save	No
3769	Prunus serotina	Black Cherry	PRSE	8.5	Fair	No	No		no	Save	No
3770	Tilia americana	American Basswood	TIAM	12.5	Good	No	No	MT: 5.5, 8.5, 8.5, 10, 8.5, 6.5, 12, 12, 12	no	Save	No
3771	Carya ovata	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
3772	Carya ovata	Shagbark Hickory	CAOV	8.5	Good	No	No		no	Save	No
3773	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No	MT: 10, 7.5	no	Save	No
3774	Populus deltoides	Eastern Cottonwood	PODE	16.5	Good	No	No		no	Save	No
3775	Populus deltoides	Eastern Cottonwood	PODE	8.0	Good	No	No		no	Save	No
3776	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No	MT: 8, 6	no	Save	No
3777	Carya ovata	Shagbark Hickory	CAOV	6.5	Good	No	No	MT: 5	no	Save	No
3778	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
3779	Prunus avium	Sweet Cherry	PRAV	8.0	Good	No	No		no	Save	No
3780	Carya ovata	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	No
3781	Carya ovata	Shagbark Hickory	CAOV	9.5	Good	No	No	MT: 8, 9.5	no	Save	No
3782	Carya glabra	Pignut Hickory	CAGL	10.5	Good	No	No	MT: 8, 7.5	no	Save	No
3783	Carya ovata	Shagbark Hickory	CAOV	6.0	Good	No	No	MT: 3	no	Save	No
3784	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
3785	Carya glabra	Pignut Hickory	CAGL	12.0	Good	No	No	MT: 9.5	no	Save	No
3786	Carya ovata	Shagbark Hickory	CAOV	10.5	Good	No	No	MT: 7	no	Save	No
3787	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No	MT: 7	no	Save	No
3788	Carya ovata	Shagbark Hickory	CAOV	7.5	Good	No	No	MT: 5.5	no	Save	No
3789	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No	MT: 7.5	no	Save	No
3790	Prunus serotina	Black Cherry	PRSE	15.5	Good	No	No		no	Save	No
3791	Carya ovata	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
3792	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No	MT: 5	no	Save	No
3793	Prunus serotina	Black Cherry	PRSE	20.0	Fair	Yes	No		no	Save	No
3794	Salix alba	White Willow	SAAL	8.5	Good	No	Yes		no	Save	No
3795	Salix alba	White Willow	SAAL	12.0	Good	No	Yes		no	Save	No
3796	Salix alba	White Willow	SAAL	12.0	Good	No	Yes		no	Save	No
3797	Salix alba	White Willow	SAAL	11.5	Good	No	Yes		no	Save	No
3798	Salix alba	White Willow	SAAL	13.0	Good	No	Yes		no	Save	No
3799	Salix alba	White Willow	SAAL	14.5	Good	No	Yes		no	Save	No
3800	Salix alba	White Willow	SAAL	12.5	Poor	No	Yes		no	Save	No
3801	Prunus serotina	Black Cherry	PRSE	29.0	Good	Yes	No		no	Save	No
3802	Quercus rubra	Red Oak	QURU	29.5	Good	Yes	No		no	Save	No
3803	Salix alba	White Willow	SAAL	10.0	Good	No	Yes		no	Save	No
3804	Salix alba	White Willow	SAAL	8.5	Good	No	Yes		no	Save	No
3805	Salix alba	White Willow	SAAL	10.0	Good	No	Yes		no	Save	No
3806	Salix alba	White Willow	SAAL	9.5	Good	No	Yes		no	Save	No
3807	Salix alba	White Willow	SAAL	9.5	Good	No	Yes		no	Save	No
3808	Salix alba	White Willow	SAAL	11.5	Good	No	Yes		no	Save	No
3809	Salix alba	White Willow	SAAL	7.0	Fair	No	Yes		no	Save	No
3810	Carya ovata	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Save	No
3811	Prunus serotina	Black Cherry	PRSE	15.5	Good	No	No		no	Save	No
3812	Quercus rubra	Red Oak	QURU	7.0	Good	No	No		no	Save	No
3813	Prunus serotina	Black Cherry	PRSE	10.0	Good	No	No		no	Save	No
3814	Prunus serotina	Black Cherry	PRSE	9.0	Fair	No	No		no	Save	No
3815	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No	MT: 7	no	Save	No
3816	Carya ovata	Shagbark Hickory	CAOV	12.0	Good	No	No		no	Save	No
3817	Carya ovata	Shagbark Hickory	CAOV	13.5	Good	No	No		no	Save	No
3818	Prunus serotina	Black Cherry	PRSE	8.5	Good	No	No		no	Save	No
3819	Carya ovata	Shagbark Hickory	CAOV	9.5	Good	No	No		no	Save	No
3820	Prunus serotina	Black Cherry	PRSE	15.0	Fair	No	No		no	Save	No
3821	Salix alba	White Willow	SAAL	8.0	Good	No	Yes		no	Save	No
3822	Prunus serotina	Black Cherry	PRSE	13.0	Poor	No	No	Disease	no	Save	No
3823	Acer saccharum	Sugar Maple	ACSA	8.0	Good	No	No		no	Save	No
3824	Ulmus americana	American Elm	ULAM	10.5	Poor	No	Yes	Dying	no	Save	No
3825	Ulmus americana	American Elm	ULAM	6.5	Poor	No	Yes	Dying	no	Save	No
3826	Prunus serotina	Black Cherry	PRSE	13.5	Good	No	No	MT: 5.5, 10	no	Save	No
3827	Quercus rubra	Red Oak	QURU	11.0	Good	No	No		no	Remove	Yes
3828	Quercus rubra	Red Oak	QURU	9.0	Good	No	No		yes	Remove	No
3829	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Remove	Yes
3830	Prunus serotina	Black Cherry	PRSE	8.5	Good	No	No		no	Remove	Yes
3831	Prunus serotina	Black Cherry	PRSE	12.5	Good	No	No		no	Remove	Yes
3832	Prunus serotina	Black Cherry	PRSE	7.0	Good	No	No		no	Remove	Yes
3833	Prunus serotina	Black Cherry	PRSE	7.5	Good	No	No	MT: 4.5	no	Remove	Yes
3834	Malus sp.	Apple	MASP	8.5	Poor	No	No		no	Remove	No
3835	Malus sp.	Apple	MASP	10.0	Fair	No	No	MT: 9, 7.5	no	Remove	Yes
3836	Malus sp.	Apple	MASP	7.5	Poor	No	No	MT: 5.5, 4, 4.5	no	Remove	No
3837	Malus sp.	Apple	MASP	7.5	Poor	No	No		no	Remove	No
3838	Rhamnus cathartica	Common Buckthorn	RHCA	6.0	Poor	No	Yes		no	Remove	No
3839	Prunus serotina	Black Cherry	PRSE	8.0	Good	No	No	MT: 6.5	no	Save	No
3840	Prunus serotina	Black Cherry	PRSE	8.5	Good	No	No	MT: 5, 8	no	Save	No
3841	Prunus serotina	Black Cherry	PRSE	12.5	Poor	No	No	MT: 4	no	Save	No
3842	Acer saccharum	Sugar Maple	ACSA	8.0	Good	No	No		no	Save	No
3843	Salix alba	White Willow	SAAL	9.5	Good	No	Yes		no	Save	No
3844	Acer saccharum	Sugar Maple	ACSA	12.0	Good	No	No		no	Save	No
3845	Carya glabra	Pignut Hickory	CAGL	20.5	Good	Yes	No		no	Save	No
3846	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
3847	Carya glabra	Pignut Hickory	CAGL	10.5	Good	No	No		no	Save	No
3848	Carya ovata	Shagbark Hickory	CAOV	15.0	Good	No	No		no	Save	No
3849	Carya glabra	Pignut Hickory	CAGL	24.0	Good	Yes	No		no	Save	No
3850	Carya glabra	Pignut Hickory	CAGL	16.0	Good	Yes	No		no	Save	No
3851	Carya glabra	Pignut Hickory	CAGL	18.0	Good	Yes	No		no	Save	No
3852	Carya glabra	Pignut Hickory	CAGL	12.5	Good	No	No		no	Save	No
3853	Quercus rubra	Red Oak	QURU	23.5	Good	Yes	No		no	Save	No
3854	Carya glabra	Pignut Hickory	CAGL	10.0	Good	No	No		no	Save	No
3855	Carya glabra	Pignut Hickory	CAGL	8.0	Good	No	No		no	Save	No
3856	Carya glabra	Pignut Hickory	CAGL	11.5	Good	No	No		no	Save	No
3857	Carya ovata	Shagbark Hickory	CAOV	11.5	Good	No	No		no	Save	No
3858	Quercus rubra	Red Oak	QURU	19.5	Good	Yes	No		no	Save	No
3859	Prunus serotina	Black Cherry	PRSE	7.0	Fair	No	No	Vines	no	Save	No
3860	Prunus serotina	Black Cherry	PRSE	10.5	Fair	No	No	Vines	no	Save	No
3861	Prunus serotina	Black Cherry	PRSE	8.0	Fair	No	No		no	Save	No
3862	Ulmus americana	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
3863	Carya ovata	Shagbark Hickory	CAOV	14.0	Good	No	No		no	Save	No
3864	Carya glabra	Pignut Hickory	CAGL	21.5	Good	Yes	No		no	Save	No
3865	Quercus rubra	Red Oak	QURU	27.0	Good	Yes	No		no	Save	No
3866	Carya glabra	Pignut Hickory	CAGL	16.5	Good	Yes	No		no	Save	No
3867	Ulmus americana	American Elm	ULAM	9.0	Good	No	Yes		no	Save	No
3868	Acer saccharum	Sugar Maple	ACSA	27.0	Good	Yes	No		no	Save	No
3869	Carya glabra	Pignut Hickory	CAGL	10.0	Good	No	No		no	Save	No
3870	Ulmus americana	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
3871	Acer saccharum	Sugar Maple	ACSA	7.5	Good	No	No		no	Save	No
3872	Acer saccharinum	Silver Maple	ACSAN	19.0	Good	Yes	Yes		no	Save	No
3873	Acer saccharinum	Silver Maple	ACSAN	27.5	Good	Yes	Yes		no	Save	No
3874	Ulmus americana	American Elm	ULAM	9.0	Good	No	Yes		no	Save	No
3875	Ulmus americana	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
3876	Acer saccharum	Sugar Maple	ACSA	25.0	Good	Yes	No		no	Save	No
3877	Acer saccharum	Sugar Maple	ACSA	15.5	Good	No	No		no	Save	No
3878	Ulmus americana	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
3879	Ulmus americana	American Elm	ULAM	8.5	Good	No	Yes		no	Save	No
3880	Quercus alba	White Oak	QUAL	16.5	Good	Yes	No		no	Save	No
3881	Quercus rubra	Red Oak	QURU	34.5	Good	Yes	No		no	Save	No
3882	Ulmus americana	American Elm	ULAM	6.5	Good	No	Yes		no	Save	No
3883	Ulmus americana	American Elm	ULAM	6.5	Good	No	Yes		no	Save	No
3884	Carya glabra	Pignut Hickory	CAGL	9.5	Good	No	No		no	Save	No
3885	Quercus rubra	Red Oak	QURU	33.0	Good	Yes	No	MT: 20	no	Save	No
3886	Carya ovata	Shagbark Hickory	CAOV	8.5	Good	No	No		no	Save	No
3887	Carya ovata	Shagbark Hickory	CAOV	10.5	Good	No	No		no	Save	No
3888	Carya glabra	Pignut Hickory	CAGL	14.0	Good	No	No	MT: 11.5	no	Save	No
3889	Carya ovata	Shagbark Hickory	CAOV	13.0	Good	No	No	MT: 12, 10	no	Save	No
3890	Ulmus americana	American Elm	ULAM	14.5	Good	No	Yes		no	Save	No
3891	Quercus rubra	Red Oak	QURU	11.5	Good	No	No		no	Save	No
3892	Carya glabra	Pignut Hickory	CAGL	13.5	Good	No	No		no	Save	No
3893	Prunus serotina	Black Cherry	PRSE	18.5	Poor	Yes	No	Dying	no	Save	No
3894	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No	MT: 12.5	no	Save	No
3895	Carya ovata	Shagbark Hickory	CAOV	14.5	Good	No	No	MT: 11.5	no	Save	No
3896	Carya ovata	Shagbark Hickory	CAOV	12.0	Good	No	No		no	Save	No
3897	Ulmus americana	American Elm	ULAM	15.0	Fair	No	Yes	MT: 9	no	Save	No
3898	Acer saccharum	Sugar Maple	ACSA	14.0	Good	No	No		no	Save	No
3899	Acer saccharinum	Silver Maple	ACSAN	6.0	Good	No	Yes		no	Save	No
3900	Carya ovata	Shagbark Hickory	CAOV	13.5	Good	No	No		no	Save	No

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
3901	Prunus serotina	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
3902	Ulmus pumila	Siberian Elm	ULPU	24.0	Poor	Yes	Yes	Dying	no	Save	No
3903	Acer saccharinum	Silver Maple	ACSAN	12.5	Good	No	Yes		no	Save	No
3904	Acer saccharum	Sugar Maple	ACSA	12.0	Good	No	No		no	Save	No
3905	Prunus serotina	Black Cherry	PRSE	28.5	Fair	Yes	No		no	Save	No
3906	Carya ovata	Shagbark Hickory	CAOV	13.0	Good	No	No	MT: 8, 10	no	Save	No
3907	Ulmus americana	American Elm	ULAM	6.0	Good	No	Yes		no	Save	No
3908	Quercus rubra	Red Oak	QURU	11.0	Fair	No	No		no	Save	No
3909	Juglans nigra	Black Walnut	JUNI	7.0	Good	No	No		no	Save	No
3910	Ulmus americana	American Elm	ULAM	9.5	Good	No	Yes		no	Save	No
3911	Acer saccharum	Sugar Maple	ACSA	9.5	Fair	No	No	Vines	no	Save	No
3912	Acer saccharum	Sugar Maple	ACSA	10.5	Fair	No	No	Vines	no	Save	No
3913	Ulmus pumila	Siberian Elm	ULPU	12.5	Poor	No	Yes	Diseased; MT: 11	no	Save	No
3914	Ulmus americana	American Elm	ULAM	7.5	Fair	No	Yes		no	Save	No
3915	Prunus serotina	Black Cherry	PRSE	6.0	Fair	No	No		no	Save	No
3916	Ulmus pumila	Siberian Elm	ULPU	6.0	Poor	No	Yes	Dying	no	Save	No
3917	Juglans nigra	Black Walnut	JUNI	7.5	Good	No	No		no	Save	No
3918	Ulmus americana	American Elm	ULAM	6.0	Fair	No	Yes		no	Save	No
3919	Ulmus americana	American Elm	ULAM	12.0	Good	No	Yes		no	Save	No
3920	Acer saccharum	Sugar Maple	ACSA	11.5	Good	No	No		no	Save	No
3921	Acer saccharum	Sugar Maple	ACSA	8.5	Good	No	No	Dead trunk	no	Save	No
3922	Acer saccharum	Sugar Maple	ACSA	20.0	Good	Yes	No		no	Save	No
3923	Quercus bicolor	Swamp White Oak	QUBI	7.5	Good	No	No		no	Save	No
3924	Ulmus americana	American Elm	ULAM	12.0	Good	No	Yes		no	Save	No
3925	Acer saccharinum	Silver Maple	ACSAN	15.5	Good	No	Yes		no	Save	No
3926	Acer saccharinum	Silver Maple	ACSAN	8.0	Fair	No	Yes	Vines	no	Save	No
3927	Populus deltoides	Eastern Cottonwood	PODE	32.0	Good	Yes	No		no	Save	No
3928	Prunus serotina	Black Cherry	PRSE	12.5	Fair	No	No		no	Save	No
3929	Ulmus americana	American Elm	ULAM	8.5	Fair	No	Yes		no	Save	No
3930	Prunus serotina	Black Cherry	PRSE	6.5	Good	No	No		no	Save	No
3931	Ulmus americana	American Elm	ULAM	11.5	Good	No	Yes		no	Save	No
3932	Acer saccharum	Sugar Maple	ACSA	7.5	Good	No	No		no	Save	No
3933	Acer saccharum	Sugar Maple	ACSA	22.0	Good	Yes	No		no	Save	No
3934	Ulmus americana	American Elm	ULAM	6.0	Good	No	Yes		no	Save	No
3935	Acer saccharum	Sugar Maple	ACSA	9.0	Good	No	No		no	Save	No
3936	Acer saccharum	Sugar Maple	ACSA	11.5	Good	No	No		no	Save	No
3937	Acer saccharum	Sugar Maple	ACSA	9.5	Good	No	No		no	Save	No
3938	Acer saccharum	Sugar Maple	ACSA	9.5	Good	No	No		no	Save	No
3939	Acer saccharinum	Silver Maple	ACSAN	13.5	Good	No	Yes		no	Save	No
3940	Acer saccharum	Sugar Maple	ACSA	7.0	Good	No	No		no	Save	No
3941	Acer saccharum	Sugar Maple	ACSA	10.0	Good	No	No		no	Save	No
3942	Acer saccharum	Sugar Maple	ACSA	16.5	Good	No	No		no	Save	No
3943	Ulmus americana	American Elm	ULAM	8.0	Fair	No	Yes	Vines	no	Save	No
3944	Ulmus americana	American Elm	ULAM	7.5	Fair	No	Yes	Vines	no	Save	No
3945	Acer saccharinum	Silver Maple	ACSAN	13.0	Good	No	Yes		no	Save	No
3946	Ulmus americana	American Elm	ULAM	7.0	Fair	No	Yes	Vines	no	Remove	No
3947	Acer saccharinum	Silver Maple	ACSAN	7.0	Good	No	Yes	MT: 2	no	Save	No
3948	Prunus serotina	Black Cherry	PRSE	7.0	Good	No	No	MT: 5	no	Save	No
3949	Ulmus americana	American Elm	ULAM	6.5	Fair	No	Yes	Vines	no	Save	No
3950	Juglans nigra	Black Walnut	JUNI	7.5	Good	No	No	MT: 3	no	Save	No
3951	Juglans nigra	Black Walnut	JUNI	7.5	Good	No	No		no	Save	No
3952	Juglans nigra	Black Walnut	JUNI	6.5	Good	No	No	MT: 6	no	Remove	Yes
3953	Ulmus americana	American Elm	ULAM	8.0	Good	No	Yes		no	Save	No
3954	Ulmus americana	American Elm	ULAM	6.0	Good	No	Yes		no	Save	No
3955	Prunus serotina	Black Cherry	PRSE	6.0	Good	No	No	MT: 5	no	Save	No
3956	Acer saccharinum	Silver Maple	ACSAN	7.0	Good	No	Yes		no	Save	No
3957	Acer saccharinum	Silver Maple	ACSAN	9.0	Good	No	Yes	MT: 8, 6, 3	no	Save	No
3958	Ulmus americana	American Elm	ULAM	6.0	Good	No	Yes		no	Save	No
3959	Acer negundo	Box Elder	ACNE	13.5	Good	No	Yes	MT: 10, 9	no	Save	No
3960	Ulmus americana	American Elm	ULAM	7.0	Good	No	Yes		no	Remove	No
3961	Prunus serotina	Black Cherry	PRSE	6.0	Good	No	No		no	Save	No
3962	Fraxinus pennsylvanica	Green Ash	FRPE	7.0	Good	No	Yes	MT: 5	no	Save	No
3963	Acer negundo	Box Elder	ACNE	9.5	Good	No	Yes	MT: 6.5, 8	no	Save	No
3964	Ulmus americana	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
3965	Acer saccharinum	Silver Maple	ACSAN	30.5	Good	Yes	Yes		no	Save	No
3966	Malus sp.	Apple	MASP	8.0	Good	No	No		no	Save	No
3967	Populus deltoides	Eastern Cottonwood	PODE	16.5	Good	No	No	MT: 13.5	no	Save	No
3968	Acer saccharinum	Silver Maple	ACSAN	11.5	Good	No	Yes		no	Save	No
3969	Salix nigra	Black Willow	SANI	19.0	Fair	Yes	Yes		no	Save	No
3970	Acer saccharinum	Silver Maple	ACSAN	14.0	Good	No	Yes		no	Save	No
3971	Salix nigra	Black Willow	SANI	14.0	Good	No	Yes		no	Remove	No
3972	Salix fragilis	Crack Willow	SAFR	11.5	Good	No	Yes		no	Save	No
3973	Acer saccharum	Sugar Maple	ACSA	14.5	Good	No	No		no	Save	No
3974	Acer saccharum	Sugar Maple	ACSA	13.0	Good	No	No	MT: 3, 4, 9	no	Save	No
3975	Acer saccharum	Sugar Maple	ACSA	11.5	Good	No	No		no	Save	No
3976	Acer saccharum	Sugar Maple	ACSA	19.0	Good	Yes	No	MT: 5.5	no	Save	No
3977	Acer saccharum	Sugar Maple	ACSA	12.0	Good	No	No	MT: 7	no	Save	No
3978	Acer negundo	Box Elder	ACNE	13.5	Good	No	Yes		no	Save	No
3979	Acer saccharum	Sugar Maple	ACSA	7.0	Good	No	No	MT: 6.5, 3.5	no	Save	No
3980	Juglans nigra	Black Walnut	JUNI	13.0	Good	No	No		no	Save	No
3981	Acer saccharum	Sugar Maple	ACSA	9.0	Fair	No	No	Vines; MT: 7	no	Save	No
3982	Acer saccharinum	Silver Maple	ACSAN	11.0	Good	No	Yes		no	Save	No
3983	Acer saccharum	Sugar Maple	ACSA	27.0	Good	Yes	No		no	Save	No
3984	Populus deltoides	Eastern Cottonwood	PODE	23.0	Good	Yes	No		no	Save	No
3985	Populus deltoides	Eastern Cottonwood	PODE	15.0	Good	No	No		no	Save	No
3986	Acer saccharum	Sugar Maple	ACSA	6.0	Good	No	No		no	Save	No
3987	Acer saccharum	Sugar Maple	ACSA	8.5	Good	No	No	MT: 8	no	Save	No
3988	Acer saccharinum	Silver Maple	ACSAN	21.0	Good	Yes	Yes	MT: 5	no	Save	No
3989	Acer saccharinum	Silver Maple	ACSAN	11.0	Good	No	Yes	MT: 6.5, 5, 3.5	no	Save	No
3990	Acer saccharinum	Silver Maple	ACSAN	13.5	Good	No	Yes	MT: 5, 11.5	no	Save	No
3991	Acer saccharinum	Silver Maple	ACSAN	7.5	Good	No	Yes		no	Save	No
3992	Acer saccharum	Sugar Maple	ACSA	7.0	Good	No	No		no	Save	No
3993	Acer saccharum	Sugar Maple	ACSA	7.0	Good	No	No	MT: 3.5	no	Save	No
3994	Acer saccharinum	Silver Maple	ACSAN	8.0	Good	No	Yes		no	Save	No
3995	Acer saccharum	Sugar Maple	ACSA	10.0	Good	No	No		no	Save	No
3996	Acer saccharum	Sugar Maple	ACSA	12.5	Good	No	No		no	Save	No
3997	Acer saccharum	Sugar Maple	ACSA	13.5	Good	No	No		no	Save	No
3998	Prunus serotina	Black Cherry	PRSE	9.5	Fair	No	No		no	Save	No
4000	Acer saccharum	Sugar Maple	ACSA	11.5	Good	No	No		no	Save	No
4001	Acer saccharum	Sugar Maple	ACSA	10.5	Good	No	No	MT: 5	no	Save	No
4002	Acer saccharum	Sugar Maple	ACSA	8.5	Good	No	No	MT: 7	no	Save	No
4003	Acer saccharum	Sugar Maple	ACSA	9.0	Good	No	No	MT: 8.5	no	Save	No
4004	Acer saccharum	Sugar Maple	ACSA	11.0	Good	No	No		no	Save	No
4005	Acer saccharum	Sugar Maple	ACSA	10.5	Good	No	No		no	Save	No
4006	Acer saccharum	Sugar Maple	ACSA	12.5	Good	No	No		no	Save	No
4007	Acer saccharum	Sugar Maple	ACSA	12.0	Good	No	No		no	Save	No
4008	Acer saccharinum	Silver Maple	ACSAN	9.0	Good	No	Yes		no	Save	No
4009	Acer saccharum	Sugar Maple	ACSA	11.5	Good	No	No	MT: 7	no	Save	No
4010	Acer saccharum	Sugar Maple	ACSA	9.5	Good	No	No		no	Save	No
4011	Ulmus americana	American Elm	ULAM	11.5	Good	No	Yes		no	Save	No
4012	Acer saccharum	Sugar Maple	ACSA	7.0	Good	No	No		no	Save	No
4013	Acer saccharum	Sugar Maple	ACSA	19.0	Good	Yes	No		no	Save	No
4014	Ulmus americana	American Elm	ULAM	19.5	Good	Yes	Yes		no	Save	No
4015	Ulmus americana	American Elm	ULAM	10.5	Fair	No	Yes		no	Save	No
4016	Acer saccharum	Sugar Maple	ACSA	24.0	Good	Yes	No	MT: 19.5	no	Save	No
4017	Ulmus americana	American Elm	ULAM	8.5	Good	No	Yes		no	Save	No
4018	Acer saccharum	Sugar Maple	ACSA	27.0	Good	Yes	No		no	Save	No
4019	Ulmus americana	American Elm	ULAM	13.5	Fair	No	Yes		no	Save	No
4020	Carya ovata	Shagbark Hickory	CAOV	12.0	Good	No	No		no	Save	No
4021	Carya glabra	Pignut Hickory	CAGL	9.0	Good	No	No		no	Save	No
4022	Ulmus americana	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
4023	Ulmus americana	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
4024	Carya ovata	Shagbark Hickory	CAOV	22.0	Good	Yes	No		no	Save	No
4025	Ulmus americana	American Elm	ULAM	6.5	Poor	No	Yes		no	Save	No
4026	Quercus rubra	Red Oak	QURU	8.5	Good	No	No		no	Save	No
4027	Quercus rubra	Red Oak	QURU	6.5	Good	No	No		no	Save	No
4028	Acer saccharum	Sugar Maple	ACSA	9.5	Good	No	No	MT: 7.5, 4	no	Save	No
4029	Acer saccharum	Sugar Maple	ACSA	7.5	Good	No	No		no	Save	No
4030	Acer saccharum	Sugar Maple	ACSA	8.0	Good	No	No		no	Save	No
4031	Quercus alba	White Oak	QUAL	20.0	Good	Yes	No		no	Save	No
4032	Carya glabra	Pignut Hickory	CAGL	12.5	Good	No	No		no	Save	No
4033	Carya ovata	Shagbark Hickory	CAOV	22.5	Good	Yes	No	MT: 15	no	Save	No
4034	Carya ovata	Shagbark Hickory	CAOV	11.5	Good	No	No		no	Save	No
4035	Quercus rubra	Red Oak	QURU	12.5	Poor	No	No		no	Save	No
4036	Quercus rubra	Red Oak	QURU	6.0	Good	No	No		no	Save	No
4037	Carya ovata	Shagbark Hickory	CAOV	12.0	Good	No	No		no	Save	No
4038	Carya ovata	Shagbark Hickory	CAOV	10.5	Good	No	No		no	Save	No
4039	Acer saccharum	Sugar Maple	ACSA	8.0	Good	No	No		no	Save	No
4040	Acer saccharum	Sugar Maple	ACSA	14.0	Good	No	No		no	Save	No
4041	Ulmus americana	American Elm	ULAM	6.0	Fair	No	Yes		no	Save	No
4042	Quercus rubra	Red Oak	QURU	16.5	Good	Yes	No		no	Save	No
4043	Carya ovata	Shagbark Hickory	CAOV	12.5	Good	No	No		no	Save	No
4044	Ulmus americana	American Elm	ULAM	15.0	Fair	No	Yes		no	Save	No
4045	Quercus rubra	Red Oak	QURU	6.0	Good	No	No		no	Save	No
4046	Carya glabra	Pignut Hickory	CAGL	9.0	Good	No	No		no	Save	No
4047	Quercus alba	White Oak	QUAL	18.0	Good	Yes	No		no	Save	No
4048	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No		no	Save	No
4049	Carya glabra	Pignut Hickory	CAGL	13.5	Good	No	No		no	Save	No
4050	Carya ovata	Shagbark Hickory	CAOV	13.0	Good	No	No		no	Save	No
4051	Prunus serotina	Black Cherry	PRSE	6.0	Fair	No	No	Vines	no	Save	No

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
4052	Quercus rubra	Red Oak	QURU	19.5	Good	Yes	No		no	Save	No
4053	Carya ovata	Shagbark Hickory	CAOV	10.5	Good	No	No		no	Save	No
4054	Carya glabra	Pignut Hickory	CAGL	17.0	Good	Yes	No	MT: 12.5, 11, 6	no	Save	No
4055	Carya ovata	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	No
4056	Carya glabra	Pignut Hickory	CAGL	10.0	Good	No	No		no	Save	No
4057	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No		no	Save	No
4058	Quercus rubra	Red Oak	QURU	22.5	Good	Yes	No		no	Save	No
4059	Carya glabra	Pignut Hickory	CAGL	7.5	Good	No	No		no	Save	No
4060	Acer saccharum	Sugar Maple	ACSA	11.0	Good	No	No		no	Save	No
4061	Carya ovata	Shagbark Hickory	CAOV	18.5	Good	Yes	No		no	Save	No
4062	Carya ovata	Shagbark Hickory	CAOV	6.0	Poor	No	No	Vines	no	Save	No
4063	Quercus rubra	Red Oak	QURU	21.5	Good	Yes	No		no	Save	No
4064	Carya ovata	Shagbark Hickory	CAOV	12.5	Good	No	No		no	Save	No
4065	Carya glabra	Pignut Hickory	CAGL	19.5	Good	Yes	No		no	Save	No
4066	Carya ovata	Shagbark Hickory	CAOV	22.0	Good	Yes	No		no	Save	No
4067	Quercus rubra	Red Oak	QURU	22.0	Good	Yes	No		no	Save	No
4068	Prunus serotina	Black Cherry	PRSE	9.5	Poor	No	No		no	Save	No
4069	Carya ovata	Shagbark Hickory	CAOV	12.5	Good	No	No		no	Save	No
4070	Carya glabra	Pignut Hickory	CAGL	8.5	Good	No	No		no	Save	No
4071	Carya glabra	Pignut Hickory	CAGL	11.5	Good	No	No		no	Save	No
4072	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
4073	Acer saccharum	Sugar Maple	ACSA	6.5	Good	No	No		no	Save	No
4074	Carya glabra	Pignut Hickory	CAGL	20.0	Good	Yes	No		no	Save	No
4075	Prunus avium	Sweet Cherry	PRAV	12.0	Good	No	No		no	Save	No
4076	Carya glabra	Pignut Hickory	CAGL	15.0	Good	No	No		no	Save	No
4077	Carya ovata	Shagbark Hickory	CAOV	13.0	Good	No	No		no	Save	No
4078	Carya ovata	Shagbark Hickory	CAOV	15.0	Good	No	No		no	Save	No
4079	Carya glabra	Pignut Hickory	CAGL	13.0	Good	No	No		no	Save	No
4080	Carya glabra	Pignut Hickory	CAGL	8.0	Good	No	No		no	Save	No
4081	Carya ovata	Shagbark Hickory	CAOV	9.5	Good	No	No		no	Save	No
4082	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
4083	Carya glabra	Pignut Hickory	CAGL	6.5	Good	No	No		no	Save	No
4084	Carya ovata	Shagbark Hickory	CAOV	6.5	Fair	No	No	Vines	no	Save	No
4085	Carya glabra	Pignut Hickory	CAGL	11.5	Good	No	No		no	Save	No
4086	Carya glabra	Pignut Hickory	CAGL	15.5	Good	No	No		no	Save	No
4087	Carya ovata	Shagbark Hickory	CAOV	15.5	Good	No	No		no	Save	No
4088	Carya ovata	Shagbark Hickory	CAOV	9.5	Good	No	No		no	Save	No
4089	Ulmus americana	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
4090	Tilia americana	American Basswood	TIAM	16.0	Good	No	No	MT: 9.5	no	Save	No
4091	Carya glabra	Pignut Hickory	CAGL	21.0	Good	Yes	No		no	Save	No
4092	Quercus rubra	Red Oak	QURU	9.5	Good	No	No		no	Save	No
4093	Acer saccharum	Sugar Maple	ACSA	7.0	Good	No	No		no	Save	No
4094	Quercus rubra	Red Oak	QURU	25.0	Good	Yes	No		no	Save	No
4095	Quercus rubra	Red Oak	QURU	25.0	Fair	Yes	No		no	Save	No
4096	Carya glabra	Pignut Hickory	CAGL	9.0	Good	No	No		no	Save	No
4097	Prunus serotina	Black Cherry	PRSE	7.5	Good	No	No		no	Save	No
4098	Quercus rubra	Red Oak	QURU	23.0	Good	Yes	No		no	Save	No
4099	Carya glabra	Pignut Hickory	CAGL	10.0	Good	No	No		no	Save	No
4100	Carya glabra	Pignut Hickory	CAGL	9.0	Good	No	No		no	Save	No
4101	Carya glabra	Pignut Hickory	CAGL	11.0	Good	No	No		no	Save	No
4102	Carya glabra	Pignut Hickory	CAGL	15.0	Good	No	No		no	Save	No
4103	Prunus serotina	Black Cherry	PRSE	7.5	Fair	No	No		no	Save	No
4104	Prunus serotina	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
4105	Carya glabra	Pignut Hickory	CAGL	14.0	Good	No	No		no	Save	No
4106	Carya glabra	Pignut Hickory	CAGL	15.0	Good	No	No		no	Save	No
4107	Quercus rubra	Red Oak	QURU	29.5	Good	Yes	No		no	Save	No
4108	Quercus rubra	Red Oak	QURU	13.0	Good	No	No		no	Save	No
4109	Quercus rubra	Red Oak	QURU	10.0	Good	No	No		no	Save	No
4110	Carya glabra	Pignut Hickory	CAGL	11.0	Good	No	No		no	Save	No
4111	Carya glabra	Pignut Hickory	CAGL	9.5	Good	No	No		no	Save	No
4112	Carya ovata	Shagbark Hickory	CAOV	16.5	Good	Yes	No		no	Save	No
4113	Carya ovata	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
4114	Quercus rubra	Red Oak	QURU	14.5	Good	No	No		no	Save	No
4115	Carya glabra	Pignut Hickory	CAGL	9.0	Good	No	No		no	Save	No
4116	Carya glabra	Pignut Hickory	CAGL	13.0	Good	No	No		no	Save	No
4117	Celtis occidentalis	Hackberry	CEOC	9.0	Good	No	No		no	Save	No
4118	Quercus rubra	Red Oak	QURU	8.0	Good	No	No		no	Save	No
4119	Carya ovata	Shagbark Hickory	CAOV	8.5	Good	No	No		no	Save	No
4120	Prunus serotina	Black Cherry	PRSE	13.0	Fair	No	No		no	Save	No
4121	Quercus rubra	Red Oak	QURU	17.5	Good	Yes	No		no	Save	No
4122	Carya ovata	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
4123	Carya glabra	Pignut Hickory	CAGL	6.5	Good	No	No		no	Save	No
4124	Prunus serotina	Black Cherry	PRSE	6.0	Good	No	No		no	Save	No
4125	Prunus serotina	Black Cherry	PRSE	8.5	Fair	No	No		no	Save	No
4126	Prunus serotina	Black Cherry	PRSE	6.5	Fair	No	No	MT: 2	no	Save	No
4127	Prunus serotina	Black Cherry	PRSE	8.0	Fair	No	No		no	Save	No
4128	Prunus serotina	Black Cherry	PRSE	7.0	Fair	No	No		no	Save	No
4129	Quercus rubra	Red Oak	QURU	9.0	Good	No	No		no	Save	No
4130	Carya ovata	Shagbark Hickory	CAOV	15.5	Good	No	No		no	Save	No
4131	Prunus serotina	Black Cherry	PRSE	11.5	Good	No	No		no	Save	No
4132	Ulmus americana	American Elm	ULAM	9.0	Good	No	Yes		no	Save	No
4133	Carya glabra	Pignut Hickory	CAGL	11.0	Good	No	No		no	Save	No
4134	Carya glabra	Pignut Hickory	CAGL	24.0	Good	Yes	No		no	Save	No
4135	Carya ovata	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Save	No
4136	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
4137	Carya glabra	Pignut Hickory	CAGL	13.5	Good	No	No		no	Save	No
4138	Carya glabra	Pignut Hickory	CAGL	9.0	Good	No	No		no	Save	No
4139	Carya ovata	Shagbark Hickory	CAOV	14.0	Good	No	No		no	Save	No
4140	Quercus rubra	Red Oak	QURU	16.5	Poor	Yes	No		no	Save	No
4141	Carya glabra	Pignut Hickory	CAGL	14.0	Good	No	No		no	Save	No
4142	Carya ovata	Shagbark Hickory	CAOV	13.5	Good	No	No		no	Save	No
4143	Carya glabra	Pignut Hickory	CAGL	17.0	Good	Yes	No		no	Save	No
4144	Prunus serotina	Black Cherry	PRSE	9.0	Fair	No	No		no	Remove	Yes
4145	Carya glabra	Pignut Hickory	CAGL	6.0	Good	No	No		no	Remove	Yes
4146	Quercus rubra	Red Oak	QURU	9.5	Good	No	No		no	Remove	Yes
4147	Quercus rubra	Red Oak	QURU	9.0	Good	No	No		no	Remove	Yes
4148	Carya ovata	Shagbark Hickory	CAOV	13.0	Good	No	No		no	Remove	Yes
4149	Carya glabra	Pignut Hickory	CAGL	19.0	Good	Yes	No		no	Save	No
4150	Carya glabra	Pignut Hickory	CAGL	9.0	Good	No	No		no	Save	No
4151	Quercus rubra	Red Oak	QURU	24.0	Good	Yes	No		no	Save	No
4152	Quercus rubra	Red Oak	QURU	28.0	Good	Yes	No		no	Save	No
4153	Carya glabra	Pignut Hickory	CAGL	12.5	Good	No	No		no	Save	No
4154	Carya glabra	Pignut Hickory	CAGL	8.0	Good	No	No		no	Save	No
4155	Carya glabra	Pignut Hickory	CAGL	21.0	Good	Yes	No		no	Save	No
4156	Carya glabra	Pignut Hickory	CAGL	11.5	Good	No	No		no	Remove	Yes
4157	Prunus serotina	Black Cherry	PRSE	7.0	Fair	No	No		no	Remove	Yes
4158	Carya ovata	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	Yes*
4159	Carya ovata	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	Yes*
4160	Prunus serotina	Black Cherry	PRSE	10.0	Good	No	No	MT: 5.5, 5.5	no	Save	Yes*
4161	Prunus serotina	Black Cherry	PRSE	9.0	Good	No	No	MT: 8, 6.5, 4.5, 4	no	Save	Yes*
4162	Quercus rubra	Red Oak	QURU	8.5	Good	No	No		no	Save	Yes*
4163	Quercus rubra	Red Oak	QURU	6.5	Good	No	No		no	Save	Yes*
4164	Quercus rubra	Red Oak	QURU	6.5	Good	No	No		no	Save	Yes*
4165	Carya ovata	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	Yes*
4166	Quercus alba	White Oak	QUAL	6.5	Good	No	No		no	Save	No
4167	Carya ovata	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
4168	Quercus rubra	Red Oak	QURU	9.0	Good	No	No		no	Save	No
4169	Carya glabra	Pignut Hickory	CAGL	13.5	Good	No	No		no	Save	No
4170	Carya glabra	Pignut Hickory	CAGL	8.5	Good	No	No		no	Save	No
4171	Quercus rubra	Red Oak	QURU	11.0	Good	No	No		no	Save	No
4172	Quercus alba	White Oak	QUAL	16.5	Good	Yes	No		no	Save	No
4173	Carya ovata	Shagbark Hickory	CAOV	11.5	Good	No	No		no	Save	No
4174	Quercus rubra	Red Oak	QURU	9.0	Good	No	No		no	Save	No
4175	Prunus serotina	Black Cherry	PRSE	6.0	Fair	No	No		no	Save	No
4176	Carya glabra	Pignut Hickory	CAGL	7.5	Good	No	No		no	Save	No
4177	Quercus alba	White Oak	QUAL	17.0	Good	Yes	No		no	Save	No
4178	Carya glabra	Pignut Hickory	CAGL	14.0	Good	No	No		no	Save	No
4179	Quercus rubra	Red Oak	QURU	18.0	Good	Yes	No		no	Save	No
4180	Prunus serotina	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
4181	Carya ovata	Shagbark Hickory	CAOV	19.0	Good	Yes	No		no	Save	No
4182	Carya glabra	Pignut Hickory	CAGL	12.0	Good	No	No		no	Save	No
4183	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No	MT: 8	no	Save	No
4184	Carya glabra	Pignut Hickory	CAGL	8.0	Good	No	No		no	Save	No
4185	Carya glabra	Pignut Hickory	CAGL	7.5	Good	No	No		no	Save	No
4186	Quercus alba	White Oak	QUAL	9.5	Good	No	No		no	Save	No
4187	Quercus rubra	Red Oak	QURU	23.5	Good	Yes	No		yes	Remove	No
4188	Juglans nigra	Black Walnut	JUNI	7.0	Good	No	No		no	Remove	Yes
4189	Carya ovata	Shagbark Hickory	CAOV	19.5	Good	Yes	No		yes	Remove	No
4190	Prunus serotina	Black Cherry	PRSE	16.0	Fair	No	No	MT: 14.5	yes	Remove	No
4191	Carya ovata	Shagbark Hickory	CAOV	14.0	Good	No	No		yes	Remove	No
4192	Prunus serotina	Black Cherry	PRSE	13.0	Fair	No	No	MT: 6.5, 15.5	no	Save	Yes*
4193	Carya ovata	Shagbark Hickory	CAOV	11.0	Good	No	No		no	Save	Yes*
4194	Prunus serotina	Black Cherry	PRSE	14.0	Fair	No	No	MT: 8	no	Save	Yes*
4195	Carya ovata	Shagbark Hickory	CAOV	20.0	Good	Yes	No		no	Save	Yes*
4196	Carya ovata	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	Yes*
4197	Carya ovata	Shagbark Hickory	CAOV	9.0	Good	No	No	MT: 9	no	Save	Yes*
4198	Quercus rubra	Red Oak	QURU	23.5	Good	Yes	No	MT: 19, 22	no	Save	No
4199	Acer negundo	Box Elder	ACNE	8.5	Good	No	Yes		no	Save	No
4200	Juniperus virginiana	Red Cedar	JUVI	7.0	Fair	No	No	Vines	no	Save	No

811

Know what's **below.**
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

TREE LIST

DATE OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 -- --
AS NOTED

DR. SK | CH. --
P.M. MB

JOB 18003065
SHEET NO.
36

CAD FILE: 18003065SP-13-TREE.DWG

K:\18003065 – BILTMORE PLATT RD\DWG\PLAN SETS\SITE-PRELIMINARY\18003065SP-13-TREE.DWG 2/25/2020 3:47 PM CHRIS ROTHHAAR

PRELIMINARY - NOT FOR CONSTRUCTION

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
4201	*Morus alba*	White Mulberry	MOAL	10.5	Fair	No	No	MT: 4, 3, 8.5, 8	no	Save	No
4202	*Celtis occidentalis*	Hackberry	CEOC	8.0	Good	No	No		no	Save	No
4203	*Malus sp.*	Apple	MASP	11.5	Poor	No	No	MT: 9, 9.5, 10	no	Save	No
4204	*Prunus serotina*	Black Cherry	PRSE	6.5	Poor	No	No	Vines	yes	Remove	No
4205	*Acer negundo*	Box Elder	ACNE	18.5	Good	Yes	Yes	MT: 21	no	Save	No
4206	*Acer negundo*	Box Elder	ACNE	6.5	Good	No	Yes		no	Save	No
4207	*Robinia pseudoacacia*	Black Locust	ROPS	8.0	Good	No	Yes		no	Save	No
4208	*Robinia pseudoacacia*	Black Locust	ROPS	7.5	Good	No	Yes		no	Remove	No
4209	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes	MT: 4.5, 4, 1.5	no	Save	No
4210	*Robinia pseudoacacia*	Black Locust	ROPS	7.0	Good	No	Yes		no	Save	No
4211	*Robinia pseudoacacia*	Black Locust	ROPS	8.0	Good	No	Yes	MT: 2	no	Save	No
4212	*Robinia pseudoacacia*	Black Locust	ROPS	6.0	Good	No	Yes	MT: 5.5	no	Save	No
4213	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes		no	Save	No
4214	*Acer negundo*	Box Elder	ACNE	13.5	Good	No	Yes	MT: 6.5, 5.5, 6, 4.5	no	Save	No
4215	*Acer negundo*	Box Elder	ACNE	8.0	Good	No	Yes		no	Save	No
4216	*Acer negundo*	Box Elder	ACNE	7.5	Good	No	Yes	MT: 5.5	no	Save	No
4217	*Robinia pseudoacacia*	Black Locust	ROPS	10.0	Good	No	Yes		no	Save	No
4218	*Acer negundo*	Box Elder	ACNE	7.5	Good	No	Yes	MT: 3.5, 2.5	no	Save	No
4219	*Prunus serotina*	Black Cherry	PRSE	8.5	Good	No	No		yes	Remove	No
4220	*Pinus resinosa*	Red Pine	PIRE	12.0	Fair	No	No		yes	Remove	No
4221	*Pinus resinosa*	Red Pine	PIRE	12.0	Fair	No	No		yes	Remove	No
4222	*Acer negundo*	Box Elder	ACNE	7.0	Good	No	Yes	MT	no	Save	No
4223	*Prunus avium*	Sweet Cherry	PRAV	6.0	Good	No	No		no	Save	No
4224	*Prunus avium*	Sweet Cherry	PRAV	8.5	Good	No	No		yes	Remove	No
4225	*Pinus resinosa*	Red Pine	PIRE	6.0	Poor	No	No		yes	Remove	No
4226	*Prunus serotina*	Black Cherry	PRSE	9.0	Fair	No	No	MT: 4, 2	yes	Remove	No
4227	*Juglans nigra*	Black Walnut	JUNI	8.5	Good	No	No		yes	Remove	No
4228	*Ulmus americana*	American Elm	ULAM	10.0	Good	No	Yes	MT: 8, 7	yes	Remove	No
4229	*Pinus resinosa*	Red Pine	PIRE	6.0	Good	No	No		yes	Remove	No
4230	*Juglans nigra*	Black Walnut	JUNI	6.0	Good	No	No		yes	Remove	No
4231	*Ulmus pumila*	Siberian Elm	ULPU	13.5	Fair	No	Yes	MT: 7.5, 6.5, 6.5, 6	no	Remove	No
4232	*Ulmus pumila*	Siberian Elm	ULPU	7.0	Fair	No	Yes		no	Remove	No
4233	*Pinus resinosa*	Red Pine	PIRE	7.0	Poor	No	No		no	Remove	No
4234	*Ulmus pumila*	Siberian Elm	ULPU	8.5	Fair	No	Yes	MT: 7.5	no	Remove	No
4235	*Pinus resinosa*	Red Pine	PIRE	9.5	Fair	No	No		no	Remove	Yes
4236	*Prunus serotina*	Black Cherry	PRSE	6.0	Good	No	No		no	Remove	Yes
4237	*Pinus resinosa*	Red Pine	PIRE	7.0	Poor	No	No	Vines	no	Remove	No
4238	*Pinus resinosa*	Red Pine	PIRE	9.5	Fair	No	No	Vines	no	Remove	Yes
4239	*Pinus resinosa*	Red Pine	PIRE	7.5	Poor	No	No	Vines	no	Remove	No
4240	*Ulmus pumila*	Siberian Elm	ULPU	6.0	Fair	No	Yes	MT: 6, 4	yes	Remove	No
4241	*Ulmus pumila*	Siberian Elm	ULPU	7.5	Poor	No	Yes	MT: 5.5	yes	Remove	No
4242	*Ulmus pumila*	Siberian Elm	ULPU	6.0	Poor	No	Yes	MT: 5.5	yes	Remove	No
4243	*Ulmus pumila*	Siberian Elm	ULPU	7.0	Poor	No	Yes		no	Remove	No
4244	*Prunus serotina*	Black Cherry	PRSE	11.5	Fair	No	No		yes	Remove	No
4245	*Ulmus pumila*	Siberian Elm	ULPU	7.0	Fair	No	Yes		yes	Remove	No
4246	*Pinus resinosa*	Red Pine	PIRE	9.5	Poor	No	No	Vines	yes	Remove	No
4247	*Ulmus pumila*	Siberian Elm	ULPU	6.5	Poor	No	Yes	Vines	yes	Remove	No
4248	*Ulmus pumila*	Siberian Elm	ULPU	18.0	Fair	Yes	Yes		yes	Remove	No
4249	*Pinus resinosa*	Red Pine	PIRE	9.5	Poor	No	No	Vines	yes	Remove	No
4250	*Ulmus pumila*	Siberian Elm	ULPU	8.5	Fair	No	Yes	MT: 8, 6, 6, 5, 4	yes	Remove	No
4251	*Juglans nigra*	Black Walnut	JUNI	8.5	Good	No	No		yes	Remove	No
4252	*Juglans nigra*	Black Walnut	JUNI	7.5	Good	No	No		yes	Remove	No
4253	*Ulmus pumila*	Siberian Elm	ULPU	8.0	Fair	No	Yes	Vines	yes	Remove	No
4254	*Ulmus pumila*	Siberian Elm	ULPU	14.5	Fair	No	Yes	Vines	yes	Remove	No
4255	*Ulmus pumila*	Siberian Elm	ULPU	6.0	Fair	No	Yes		yes	Remove	No
4256	*Juglans nigra*	Black Walnut	JUNI	6.5	Good	No	No		no	Remove	Yes
4257	*Ulmus pumila*	Siberian Elm	ULPU	16.0	Fair	No	Yes	MT: 13.5	no	Remove	No
4258	*Carya ovata*	Shagbark Hickory	CAOV	10.0	Good	No	No	MT: 8	no	Save	No
4259	*Quercus rubra*	Red Oak	QURU	18.5	Good	Yes	No	MT: 14.5	no	Save	No
4260	*Quercus rubra*	Red Oak	QURU	8.5	Good	No	No		no	Save	No
4261	*Quercus rubra*	Red Oak	QURU	12.0	Good	No	No		no	Save	No
4262	*Prunus serotina*	Black Cherry	PRSE	9.0	Fair	No	No		no	Remove	Yes
4263	*Carya ovata*	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
4264	*Carya ovata*	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Remove	Yes
4265	*Prunus serotina*	Black Cherry	PRSE	15.0	Fair	No	No	MT: 9, 12.5, 9.5	yes	Remove	No
4266	*Carya ovata*	Shagbark Hickory	CAOV	6.5	Good	No	No		yes	Remove	No
4267	*Prunus serotina*	Black Cherry	PRSE	6.0	Good	No	No		yes	Remove	No
4268	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No		no	Remove	Yes
4269	*Quercus rubra*	Red Oak	QURU	17.5	Good	Yes	No		no	Save	No
4270	*Prunus serotina*	Black Cherry	PRSE	16.5	Poor	No	No		no	Save	No
4271	*Carya ovata*	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
4272	*Carya ovata*	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
4273	*Quercus rubra*	Red Oak	QURU	17.0	Good	Yes	No		no	Save	No
4274	*Quercus rubra*	Red Oak	QURU	6.0	Fair	No	No		no	Save	No
4275	*Quercus rubra*	Red Oak	QURU	12.0	Good	No	No		no	Remove	Yes
4276	*Rhamnus cathartica*	Common Buckthorn	RHCA	10.0	Good	No	Yes	MT: 7, 7.5, 5	no	Remove	No
4277	*Prunus serotina*	Black Cherry	PRSE	17.0	Good	No	No	MT: 11.5, 15.5, 12.5	no	Remove	Yes
4278	*Carya ovata*	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Remove	Yes
4279	*Quercus rubra*	Red Oak	QURU	12.5	Fair	No	No		no	Remove	Yes
4280	*Carya ovata*	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Remove	Yes
4281	*Prunus serotina*	Black Cherry	PRSE	8.0	Poor	No	No		no	Remove	No
4282	*Carya ovata*	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Remove	Yes
4283	*Carya ovata*	Shagbark Hickory	CAOV	11.5	Good	No	No		yes	Remove	No
4284	*Prunus serotina*	Black Cherry	PRSE	20.0	Fair	Yes	No		yes	Remove	No
4285	*Prunus serotina*	Black Cherry	PRSE	7.0	Poor	No	No		no	Remove	No
4286	*Quercus rubra*	Red Oak	QURU	13.0	Good	No	No		no	Remove	Yes
4287	*Crataegus sp.*	Hawthorn	CRSP	8.5	Fair	No	No	Vines	no	Remove	Yes
4288	*Carya ovata*	Shagbark Hickory	CAOV	11.0	Good	No	No		no	Remove	Yes
4289	*Carya ovata*	Shagbark Hickory	CAOV	11.5	Good	No	No		no	Remove	Yes
4290	*Rhamnus cathartica*	Common Buckthorn	RHCA	6.5	Fair	No	Yes	MT: 6, 4.5, 1, 1	no	Remove	No
4291	*Carya ovata*	Shagbark Hickory	CAOV	9.0	Good	No	No	MT: 9	no	Remove	Yes
4292	*Quercus rubra*	Red Oak	QURU	16.0	Good	Yes	No		yes	Remove	No
4293	*Carya ovata*	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Remove	Yes
4294	*Quercus rubra*	Red Oak	QURU	10.5	Good	No	No		no	Remove	Yes
4295	*Crataegus sp.*	Hawthorn	CRSP	6.0	Good	No	No	MT: 3.5	yes	Remove	No
4296	*Crataegus sp.*	Hawthorn	CRSP	6.0	Fair	No	No	MT: 4, 3, 1.5, 1.5	yes	Remove	No
4297	*Carya ovata*	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Remove	Yes
4298	*Carya ovata*	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Save	No
4299	*Carya ovata*	Shagbark Hickory	CAOV	8.5	Good	No	No		no	Remove	Yes
4300	*Quercus rubra*	Red Oak	QURU	19.5	Good	Yes	No		no	Save	No
4301	*Carya ovata*	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
4302	*Quercus rubra*	Red Oak	QURU	12.0	Good	No	No		no	Save	No
4303	*Carya glabra*	Pignut Hickory	CAGL	14.0	Good	No	No		no	Save	No
4304	*Quercus rubra*	Red Oak	QURU	7.5	Good	No	No		no	Save	No
4305	*Carya ovata*	Shagbark Hickory	CAOV	24.5	Good	Yes	No		no	Save	No
4306	*Carya ovata*	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Save	No
4307	*Prunus serotina*	Black Cherry	PRSE	7.0	Fair	No	No		no	Save	No
4308	*Carya ovata*	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Save	No
4309	*Prunus serotina*	Black Cherry	PRSE	7.5	Fair	No	No		no	Save	No
4310	*Carya ovata*	Shagbark Hickory	CAOV	6.0	Good	No	No		no	Save	No
4311	*Prunus serotina*	Black Cherry	PRSE	8.5	Fair	No	No		no	Save	No
4312	*Ulmus americana*	American Elm	ULAM	14.0	Good	No	Yes		no	Save	No
4313	*Prunus serotina*	Black Cherry	PRSE	15.5	Fair	No	No		no	Save	No
4314	*Prunus serotina*	Black Cherry	PRSE	9.5	Fair	No	No	Vines	no	Save	No
4315	*Prunus serotina*	Black Cherry	PRSE	15.5	Poor	No	No	Vines	no	Save	No
4316	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
4317	*Quercus alba*	White Oak	QUAL	40.0	Good	Yes	No		no	Save	No
4318	*Prunus serotina*	Black Cherry	PRSE	7.0	Fair	No	No		no	Remove	Yes
4319	*Prunus serotina*	Black Cherry	PRSE	8.5	Fair	No	No		no	Save	No
4320	*Prunus serotina*	Black Cherry	PRSE	15.5	Fair	No	No	MT: 6.5	no	Save	No
4321	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes		no	Save	No
4322	*Prunus serotina*	Black Cherry	PRSE	7.0	Fair	No	No		no	Save	No
4323	*Quercus bicolor*	Swamp White Oak	QUBI	8.5	Good	No	No		no	Save	No
4324	*Prunus serotina*	Black Cherry	PRSE	19.0	Fair	Yes	No	MT: 12, 11.5, 10, 9.5	no	Save	No
4325	*Prunus serotina*	Black Cherry	PRSE	6.0	Poor	No	No	Vines	no	Save	No
4326	*Prunus serotina*	Black Cherry	PRSE	7.5	Fair	No	No		no	Save	No
4327	*Prunus serotina*	Black Cherry	PRSE	10.0	Fair	No	No	Vines	no	Save	No
4328	*Prunus serotina*	Black Cherry	PRSE	8.0	Fair	No	No	Vines	no	Save	No
4329	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
4330	*Prunus serotina*	Black Cherry	PRSE	11.5	Fair	No	No	MT: 10.5, 8.5	no	Save	No
4331	*Prunus avium*	Sweet Cherry	PRAV	7.0	Fair	No	No	MT: 4	no	Save	No
4332	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
4333	*Quercus alba*	White Oak	QUAL	46.0	Good	Yes	No		no	Save	No
4334	*Prunus serotina*	Black Cherry	PRSE	9.0	Fair	No	No		no	Save	No
4335	*Carya ovata*	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
4336	*Prunus serotina*	Black Cherry	PRSE	8.5	Fair	No	No		no	Save	No
4337	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
4338	*Prunus serotina*	Black Cherry	PRSE	9.0	Fair	No	No		no	Save	No
4339	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No	MT: 5.5	no	Save	No
4340	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
4341	*Prunus serotina*	Black Cherry	PRSE	6	Fair	No	No		no	Save	No
4342	*Carya ovata*	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
4343	*Prunus serotina*	Black Cherry	PRSE	16	Fair	No	No	MT: 10, 7	no	Save	No
4344	*Quercus rubra*	Red Oak	QURU	13	Good	No	No		no	Save	No
4345	*Quercus palustris*	Pin Oak	QUPA	8.5	Good	No	No		no	Save	No
4346	*Prunus serotina*	Black Cherry	PRSE	7.5	Good	No	No		no	Save	No
4347	*Carya ovata*	Shagbark Hickory	CAOV	13	Good	No	No	MT: 10.5	no	Save	No
4348	*Quercus rubra*	Red Oak	QURU	8	Good	No	No		no	Save	No
4349	*Quercus palustris*	Pin Oak	QUPA	6	Good	No	No		no	Save	No
4350	*Prunus serotina*	Black Cherry	PRSE	12.5	Good	No	No		no	Save	No

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
4351	*Quercus rubra*	Red Oak	QURU	17	Good	Yes	No		no	Save	No
4352	*Quercus alba*	White Oak	QUAL	32	Good	Yes	No		no	Save	No
4353	*Carya glabra*	Pignut Hickory	CAGL	20	Good	Yes	No		no	Save	No
4354	*Quercus alba*	White Oak	QUAL	31	Good	Yes	No		no	Save	No
4355	*Ulmus americana*	American Elm	ULAM	6.5	Good	No	Yes		no	Save	No
4356	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes		no	Save	No
4357	*Ulmus americana*	American Elm	ULAM	7	Good	No	Yes		no	Save	No
4358	*Carya ovata*	Shagbark Hickory	CAOV	12.5	Good	No	No		no	Save	No
4359	*Carya ovata*	Shagbark Hickory	CAOV	18.5	Good	Yes	No		no	Save	No
4360	*Carya ovata*	Shagbark Hickory	CAOV	12	Good	No	No		no	Save	No
4361	*Carya glabra*	Pignut Hickory	CAGL	12.5	Good	No	No		no	Save	No
4362	*Carya glabra*	Pignut Hickory	CAGL	10	Good	No	No		no	Save	No
4363	*Carya glabra*	Pignut Hickory	CAGL	11.5	Good	No	No		no	Save	No
4364	*Ulmus americana*	American Elm	ULAM	6	Good	No	Yes		no	Save	No
4365	*Carya glabra*	Pignut Hickory	CAGL	8	Good	No	No		no	Save	No
4366	*Carya glabra*	Pignut Hickory	CAGL	7.5	Good	No	No		no	Save	No
4367	*Carya ovata*	Shagbark Hickory	CAOV	7	Good	No	No		no	Save	No
4368	*Carya ovata*	Shagbark Hickory	CAOV	8	Good	No	No		no	Save	No
4369	*Carya glabra*	Pignut Hickory	CAGL	10	Good	No	No		no	Save	No
4370	*Quercus rubra*	Red Oak	QURU	27	Good	Yes	No		no	Save	No
4371	*Carya ovata*	Shagbark Hickory	CAOV	8	Good	No	No		no	Save	No
4372	*Quercus alba*	White Oak	QUAL	26	Good	Yes	No		no	Save	No
4373	*Quercus alba*	White Oak	QUAL	24	Good	Yes	No		no	Save	No
4374	*Carya ovata*	Shagbark Hickory	CAOV	7	Good	No	No		no	Save	No
4375	*Ulmus americana*	American Elm	ULAM	8	Good	No	Yes		no	Save	No
4376	*Quercus alba*	White Oak	QUAL	7	Good	No	No		no	Save	No
4377	*Ulmus americana*	American Elm	ULAM	9	Good	No	Yes		no	Save	No
4378	*Quercus rubra*	Red Oak	QURU	17	Good	Yes	No		no	Save	No
4379	*Quercus alba*	White Oak	QUAL	16.5	Good	Yes	No		no	Save	No
4380	*Ulmus americana*	American Elm	ULAM	6.5	Good	No	Yes		no	Save	No
4381	*Quercus alba*	White Oak	QUAL	16	Good	Yes	No		no	Save	No
4382	*Ulmus americana*	American Elm	ULAM	7	Good	No	Yes		no	Save	No
4383	*Acer saccharum*	Sugar Maple	ACSA	6.5	Good	No	No		no	Save	No
4384	*Quercus rubra*	Red Oak	QURU	16.5	Good	Yes	No		no	Save	No
4385	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No		no	Save	No
4386	*Acer saccharum*	Sugar Maple	ACSA	7.5	Good	No	No		no	Save	No
4387	*Carya ovata*	Shagbark Hickory	CAOV	7	Good	No	No		no	Save	No
4388	*Carya ovata*	Shagbark Hickory	CAOV	9.5	Good	No	No		no	Save	No
4389	*Carya glabra*	Pignut Hickory	CAGL	8	Good	No	No		no	Save	No
4390	*Carya ovata*	Shagbark Hickory	CAOV	12	Good	No	No		no	Save	No
4391	*Ulmus americana*	American Elm	ULAM	8	Good	No	Yes		no	Save	No
4392	*Carya ovata*	Shagbark Hickory	CAOV	12.5	Good	No	No		no	Save	No
4393	*Ulmus americana*	American Elm	ULAM	6	Good	No	Yes		no	Save	No
4394	*Prunus serotina*	Black Cherry	PRSE	6	Good	No	No		no	Save	No
4395	*Carya ovata*	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	No
4396	*Prunus serotina*	Black Cherry	PRSE	8.5	Fair	No	No		no	Save	No
4397	*Prunus serotina*	Black Cherry	PRSE	9.5	Fair	No	No		no	Save	No
4398	*Acer saccharum*	Sugar Maple	ACSA	7	Good	No	No		no	Save	No
4399	*Prunus serotina*	Black Cherry	PRSE	7	Good	No	No		no	Save	No
4400	*Quercus alba*	White Oak	QUAL	16	Good	Yes	No		no	Save	No
4401	*Salix alba*	White Willow	SAAL	7.5	Good	No	Yes		no	Save	No
4402	*Quercus rubra*	Red Oak	QURU	12.5	Good	No	No		no	Save	No
4403	*Quercus alba*	White Oak	QUAL	31.5	Good	Yes	No		no	Save	No
4404	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
4405	*Carya glabra*	Pignut Hickory	CAGL	8	Good	No	No		no	Save	No
4406	*Carya glabra*	Pignut Hickory	CAGL	6	Good	No	No		no	Save	No
4407	*Carya ovata*	Shagbark Hickory	CAOV	7	Good	No	No		no	Save	No
4408	*Carya ovata*	Shagbark Hickory	CAOV	14	Good	No	No		no	Save	No
4409	*Carya ovata*	Shagbark Hickory	CAOV	26	Good	Yes	No		no	Save	No
4410	*Prunus serotina*	Black Cherry	PRSE	17	Fair	No	No		no	Save	No
4411	*Quercus alba*	White Oak	QUAL	33	Good	Yes	No		no	Save	No
4412	*Prunus serotina*	Black Cherry	PRSE	9.5	Good	No	No		no	Save	No
4413	*Quercus alba*	White Oak	QUAL	14	Good	No	No	MT: 11	no	Save	No
4414	*Acer saccharinum*	Silver Maple	ACSAN	27	Good	Yes	Yes		no	Save	No
4415	*Quercus alba*	White Oak	QUAL	14	Good	No	No	MT: 5.5	no	Save	No
4416	*Quercus alba*	White Oak	QUAL	12.5	Good	No	No		no	Save	No
4417	*Carya ovata*	Shagbark Hickory	CAOV	10	Good	No	No		no	Save	No
4418	*Carya ovata*	Shagbark Hickory	CAOV	12	Good	No	No		no	Save	No
4419	*Salix fragilis*	Crack Willow	SAFR	16.5	Fair	No	No	Dead branches	no	Save	No
4420	*Prunus serotina*	Black Cherry	PRSE	13	Good	No	No		no	Save	No
4421	*Carya glabra*	Pignut Hickory	CAGL	15.5	Good	No	No	MT: 13	no	Save	No
4422	*Quercus alba*	White Oak	QUAL	14	Good	No	No		no	Save	No
4423	*Quercus rubra*	Red Oak	QURU	7	Good	No	No		no	Save	No
4424	*Carya glabra*	Pignut Hickory	CAGL	12	Good	No	No		no	Save	No
4425	*Carya glabra*	Pignut Hickory	CAGL	23.5	Good	Yes	No	MT: 6	no	Save	No
4426	*Carya glabra*	Pignut Hickory	CAGL	10.5	Good	No	No		no	Save	No
4427	*Prunus serotina*	Black Cherry	PRSE	9.5	Fair	No	No		no	Save	No
4428	*Quercus rubra*	Red Oak	QURU	38.5	Good	Yes	No	MT: 26	no	Save	No
4429	*Prunus serotina*	Black Cherry	PRSE	9	Poor	No	No	Dying	no	Save	No
4430	*Prunus avium*	Sweet Cherry	PRAV	8.5	Poor	No	No		no	Save	No
4431	*Carya glabra*	Pignut Hickory	CAGL	11.5	Good	No	No		no	Save	No
4432	*Prunus serotina*	Black Cherry	PRSE	9.5	Fair	No	No		no	Save	No
4433	*Acer saccharum*	Sugar Maple	ACSA	12	Good	No	No		no	Save	No
4434	*Carya ovata*	Shagbark Hickory	CAOV	15	Fair	No	No	MT: 8, 7.5	no	Remove	Yes
4435	*Quercus rubra*	Red Oak	QURU	28	Good	Yes	No		no	Remove	Yes
4436	*Quercus velutina*	Black Oak	QUVE	11.5	Good	No	No		yes	Remove	No
4437	*Prunus serotina*	Black Cherry	PRSE	10	Fair	No	No	MT: 8.5; vines	no	Remove	Yes
4438	*Prunus serotina*	Black Cherry	PRSE	12	Fair	No	No	MT: 8.5	no	Remove	Yes
4439	*Quercus velutina*	Black Oak	QUVE	9.5	Good	No	No		no	Remove	Yes
4440	*Carya ovata*	Shagbark Hickory	CAOV	15	Good	No	No		no	Save	No
4441	*Carya glabra*	Pignut Hickory	CAGL	11.5	Good	No	No		no	Save	No
4442	*Lonicera maackii*	Honeysuckle	LOMA	8.5	Good	No	No	MT: 5.5, 4.5, 4.5	no	Save	No
4443	*Carya glabra*	Pignut Hickory	CAGL	14	Good	No	No		no	Save	No
4444	*Carya glabra*	Pignut Hickory	CAGL	14.5	Good	No	No		no	Save	No
4445	*Quercus rubra*	Red Oak	QURU	11	Good	No	No		no	Save	No
4446	*Quercus rubra*	Red Oak	QURU	7.5	Good	No	No		no	Save	No
4447	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No		no	Save	No
4448	*Quercus rubra*	Red Oak	QURU	13	Good	No	No		no	Save	No
4449	*Carya glabra*	Pignut Hickory	CAGL	8	Good	No	No		no	Save	No
4450	*Carya ovata*	Shagbark Hickory	CAOV	9.5	Good	No	No		no	Save	No
4451	*Quercus alba*	White Oak	QUAL	6.5	Good	No	No		no	Save	No
4452	*Quercus rubra*	Red Oak	QURU	14.5	Good	No	No		no	Save	No
4453	*Prunus serotina*	Black Cherry	PRSE	10.5	Good	No	No		no	Save	No
4454	*Carya ovata*	Shagbark Hickory	CAOV	7	Good	No	No		no	Save	No
4455	*Quercus rubra*	Red Oak	QURU	7.5	Good	No	No		no	Save	No
4456	*Quercus rubra*	Red Oak	QURU	7.5	Good	No	No		no	Save	No
4457	*Quercus rubra*	Red Oak	QURU	18.5	Good	Yes	No		no	Save	No
4458	*Quercus rubra*	Red Oak	QURU	7.5	Good	No	No		no	Save	No
4459	*Quercus rubra*	Red Oak	QURU	10.5	Good	No	No		no	Save	No
4460	*Carya ovata*	Shagbark Hickory	CAOV	8	Good	No	No		no	Save	No
4461	*Acer saccharum*	Sugar Maple	ACSA	8.5	Good	No	No		no	Save	No
4462	*Quercus alba*	White Oak	QUAL	28.5	Good	Yes	No		no	Save	No
4463	*Carya glabra*	Pignut Hickory	CAGL	24.5	Good	Yes	No		no	Save	No
4464	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No		no	Save	No
4465	*Quercus rubra*	Red Oak	QURU	8	Good	No	No		no	Save	No
4466	*Quercus rubra*	Red Oak	QURU	20	Good	Yes	No		no	Save	No
4467	*Quercus rubra*	Red Oak	QURU	8	Good	No	No		no	Save	No
4468	*Carya ovata*	Shagbark Hickory	CAOV	7	Good	No	No		no	Save	No
4469	*Quercus rubra*	Red Oak	QURU	9	Good	No	No		no	Save	No
4470	*Quercus rubra*	Red Oak	QURU	6.5	Good	No	No		no	Save	No
4471	*Carya ovata*	Shagbark Hickory	CAOV	11	Good	No	No	MT: 10	no	Save	No
4472	*Carya ovata*	Shagbark Hickory	CAOV	6	Good	No	No		no	Save	No
4473	*Prunus serotina*	Black Cherry	PRSE	7	Fair	No	No		no	Save	No
4474	*Carya ovata*	Shagbark Hickory	CAOV	6	Good	No	No		no	Save	No
4475	*Carya ovata*	Shagbark Hickory	CAOV	9.5	Good	No	No	MT: 6	no	Save	No
4476	*Prunus serotina*	Black Cherry	PRSE	26.5	Good	Yes	No		no	Save	No
4477	*Carya glabra*	Pignut Hickory	CAGL	17	Good	Yes	No		no	Save	No
4478	*Quercus rubra*	Red Oak	QURU	6	Good	No	No		no	Save	No
4479	*Carya ovata*	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	No
4480	*Carya glabra*	Pignut Hickory	CAGL	27.5	Good	Yes	No		no	Save	No
4481	*Carya glabra*	Pignut Hickory	CAGL	14.5	Good	No	No		no	Save	No
4482	*Carya glabra*	Pignut Hickory	CAGL	19	Good	Yes	No		no	Save	No
4483	*Carya glabra*	Pignut Hickory	CAGL	16	Good	Yes	No		no	Save	No
4484	*Carya ovata*	Shagbark Hickory	CAOV	7	Good	No	No		no	Save	No
4485	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No		no	Save	No
4486	*Prunus serotina*	Black Cherry	PRSE	7.5	Fair	No	No		no	Save	No
4487	*Quercus rubra*	Red Oak	QURU	10	Good	No	No		no	Save	No
4488	*Prunus avium*	Sweet Cherry	PRAV	6	Good	No	No		no	Save	No
4489	*Carya glabra*	Pignut Hickory	CAGL	17	Good	Yes	No		no	Save	No
4490	*Carya ovata*	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	No
4491	*Carya glabra*	Pignut Hickory	CAGL	17	Good	Yes	No		no	Save	No
4492	*Carya ovata*	Shagbark Hickory	CAOV	13	Good	No	No		no	Save	No
4493	*Carya glabra*	Pignut Hickory	CAGL	16.5	Good	Yes	No		no	Save	No
4494	*Quercus rubra*	Red Oak	QURU	6.5	Good	No	No		no	Save	No
4495	*Carya glabra*	Pignut Hickory	CAGL	13	Good	No	No		no	Save	No
4496	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
4497	*Carya glabra*	Pignut Hickory	CAGL	16.5	Good	Yes	No		no	Save	No
4498	*Carya glabra*	Pignut Hickory	CAGL	20.5	Good	Yes	No		no	Save	No
4499	*Quercus alba*	White Oak	QUAL	16.5	Good	Yes	No		no	Save	No
4500	*Prunus avium*	Sweet Cherry	PRAV	6.5	Fair	No	No		no	Save	No

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
4501	*Quercus rubra*	Red Oak	QURU	16	Good	Yes	No		no	Save	No
4502	*Quercus rubra*	Red Oak	QURU	6.5	Good	No	No		no	Save	No
4503	*Quercus rubra*	Red Oak	QURU	9	Good	No	No		no	Save	No
4504	*Carya glabra*	Pignut Hickory	CAGL	16.5	Good	No	No		no	Save	No
4505	*Quercus rubra*	Red Oak	QURU	13.5	Good	No	No		no	Save	No
4506	*Prunus serotina*	Black Cherry	PRSE	9.5	Fair	No	No		no	Save	No
4507	*Quercus rubra*	Red Oak	QURU	14.5	Good	No	No		no	Save	No
4508	*Carya glabra*	Pignut Hickory	CAGL	9	Good	No	No		no	Save	No
4509	*Prunus serotina*	Black Cherry	PRSE	8	Fair	No	No		no	Save	No
4510	*Quercus rubra*	Red Oak	QURU	11.5	Good	No	No		no	Save	No
4511	*Celtis occidentalis*	Hackberry	CEOC	8	Good	No	No		no	Save	No
4512	*Prunus serotina*	Black Cherry	PRSE	11	Fair	No	No		no	Save	No
4513	*Prunus serotina*	Black Cherry	PRSE	10	Fair	No	No		no	Save	No
4514	*Acer saccharum*	Sugar Maple	ACSA	8	Good	No	No	MT: 3.5	no	Save	No
4515	*Acer saccharum*	Sugar Maple	ACSA	9	Good	No	No		no	Save	No
4516	*Quercus rubra*	Red Oak	QURU	6	Good	No	No		no	Save	No
4517	*Prunus serotina*	Black Cherry	PRSE	9	Fair	No	No		no	Save	No
4518	*Acer saccharum*	Sugar Maple	ACSA	8.5	Good	No	No		no	Save	No
4519	*Prunus serotina*	Black Cherry	PRSE	9	Fair	No	No		no	Save	No
4520	*Quercus alba*	White Oak	QUAL	24	Fair	Yes	No		no	Save	No
4521	*Quercus alba*	White Oak	QUAL	19	Good	Yes	No		no	Save	No
4522	*Prunus serotina*	Black Cherry	PRSE	7.5	Fair	No	No		no	Save	No
4523	*Quercus rubra*	Red Oak	QURU	6.5	Good	No	No		no	Save	No
4524	*Quercus rubra*	Red Oak	QURU	6.5	Good	No	No		no	Save	No
4525	*Quercus alba*	White Oak	QUAL	37.5	Good	Yes	No		no	Save	No
4526	*Prunus serotina*	Black Cherry	PRSE	9	Fair	No	No		no	Save	No
4527	*Tilia americana*	American Basswood	TIAM	7.5	Poor	No	No		no	Save	No
4528	*Ulmus americana*	American Elm	ULAM	11.5	Good	No	Yes		no	Save	No
4529	*Prunus avium*	Sweet Cherry	PRAV	11	Fair	No	No		no	Save	No
4530	*Salix alba*	White Willow	SAAL	6	Good	No	Yes		no	Save	No
4531	*Prunus serotina*	Black Cherry	PRSE	8	Fair	No	No		no	Save	No
4532	*Prunus serotina*	Black Cherry	PRSE	7	Fair	No	No		no	Save	No
4533	*Prunus serotina*	Black Cherry	PRSE	6	Fair	No	No		no	Save	No
4534	*Quercus rubra*	Red Oak	QURU	37	Good	Yes	No		no	Save	No
4535	*Ulmus americana*	American Elm	ULAM	7	Good	No	Yes		no	Save	No
4536	*Quercus rubra*	Red Oak	QURU	36	Good	Yes	No		no	Save	No
4537	*Prunus serotina*	Black Cherry	PRSE	6	Good	No	No		no	Save	No
4538	*Carya glabra*	Pignut Hickory	CAGL	18	Good	Yes	No		no	Save	No
4539	*Carya glabra*	Pignut Hickory	CAGL	8.5	Good	No	No		no	Save	No
4540	*Carya glabra*	Pignut Hickory	CAGL	18	Good	Yes	No		no	Save	No
4541	*Carya glabra*	Pignut Hickory	CAGL	11.5	Good	No	No		no	Save	No
4542	*Prunus serotina*	Black Cherry	PRSE	8	Good	No	No		no	Save	No
4543	*Carya ovata*	Shagbark Hickory	CAOV	13	Good	No	No		no	Save	No
4544	*Carya glabra*	Pignut Hickory	CAGL	11.5	Good	No	No		no	Save	No
4545	*Prunus serotina*	Black Cherry	PRSE	8	Fair	No	No		no	Save	No
4546	*Acer saccharum*	Sugar Maple	ACSA	7	Good	No	No		no	Save	No
4547	*Carya glabra*	Pignut Hickory	CAGL	13	Good	No	No		no	Save	No
4548	*Carya glabra*	Pignut Hickory	CAGL	12	Good	No	No		no	Save	No
4549	*Prunus serotina*	Black Cherry	PRSE	9	Fair	No	No		no	Save	No
4550	*Ulmus americana*	American Elm	ULAM	9	Good	No	Yes		no	Save	No
4551	*Carya ovata*	Shagbark Hickory	CAOV	10	Good	No	No		no	Save	No
4552	*Quercus alba*	White Oak	QUAL	14.5	Good	No	No		no	Save	No
4553	*Carya ovata*	Shagbark Hickory	CAOV	22	Good	Yes	No		no	Save	No
4554	*Carya ovata*	Shagbark Hickory	CAOV	8	Good	No	No		no	Save	No
4555	*Quercus rubra*	Red Oak	QURU	20	Good	Yes	No		no	Save	No
4556	*Salix alba*	White Willow	SAAL	15	Good	No	Yes		no	Save	No
4557	*Acer saccharum*	Sugar Maple	ACSA	7	Good	No	No		no	Save	No
4558	*Carya glabra*	Pignut Hickory	CAGL	13.5	Good	No	No		no	Save	No
4559	*Acer saccharum*	Sugar Maple	ACSA	6	Good	No	No		no	Save	No
4560	*Acer saccharum*	Sugar Maple	ACSA	7	Good	No	No		no	Save	No
4561	*Quercus rubra*	Red Oak	QURU	30.5	Good	Yes	No		no	Save	No
4562	*Acer saccharum*	Sugar Maple	ACSA	10	Good	No	No		no	Save	No
4563	*Ulmus americana*	American Elm	ULAM	6	Good	No	Yes		no	Save	No
4564	*Carya glabra*	Pignut Hickory	CAGL	24.5	Good	Yes	No		no	Save	No
4565	*Carya glabra*	Pignut Hickory	CAGL	11	Good	No	No		no	Save	No
4566	*Prunus serotina*	Black Cherry	PRSE	8.5	Good	No	No		no	Save	No
4567	*Prunus avium*	Sweet Cherry	PRAV	10	Good	No	No		no	Save	No
4568	*Ulmus americana*	American Elm	ULAM	8.5	Good	No	Yes		no	Save	No
4569	*Carya glabra*	Pignut Hickory	CAGL	10.5	Good	No	No		no	Save	No
4570	*Acer saccharum*	Sugar Maple	ACSA	6	Good	No	No		no	Save	No
4571	*Acer saccharum*	Sugar Maple	ACSA	6	Good	No	No		no	Save	No
4572	*Ulmus americana*	American Elm	ULAM	9	Good	No	Yes		no	Save	No
4573	*Carya ovata*	Shagbark Hickory	CAOV	11.5	Good	No	No		no	Save	No
4574	*Carya glabra*	Pignut Hickory	CAGL	16	Good	No	No		no	Save	No
4575	*Carya glabra*	Pignut Hickory	CAGL	21.5	Good	Yes	No		no	Save	No
4576	*Quercus alba*	White Oak	QUAL	11	Good	No	No		no	Save	No
4577	*Prunus serotina*	Black Cherry	PRSE	8.5	Fair	No	No		no	Save	No
4578	*Quercus rubra*	Red Oak	QURU	26	Good	Yes	No		no	Save	No
4579	*Quercus alba*	White Oak	QUAL	16	Good	No	No		no	Save	No
4580	*Acer saccharum*	Sugar Maple	ACSA	6.5	Good	No	No		no	Save	No
4581	*Carya glabra*	Pignut Hickory	CAGL	7	Good	No	No		no	Save	No
4582	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes		no	Save	No
4583	*Ulmus americana*	American Elm	ULAM	12.5	Good	No	Yes		no	Save	No
4584	*Acer saccharum*	Sugar Maple	ACSA	7.5	Good	No	No		no	Save	No
4585	*Prunus serotina*	Black Cherry	PRSE	18	Fair	Yes	No		no	Save	No
4586	*Ulmus americana*	American Elm	ULAM	9	Good	No	Yes		no	Save	No
4587	*Quercus alba*	White Oak	QUAL	25	Good	Yes	No		no	Save	No
4588	*Ulmus americana*	American Elm	ULAM	6	Good	No	Yes		no	Save	No
4589	*Ulmus americana*	American Elm	ULAM	6	Good	No	Yes		no	Save	No
4590	*Carya glabra*	Pignut Hickory	CAGL	8.5	Good	No	No		no	Save	No
4591	*Carya ovata*	Shagbark Hickory	CAOV	6	Good	No	No		no	Save	No
4592	*Quercus rubra*	Red Oak	QURU	35.5	Good	Yes	No		no	Save	No
4593	*Carya glabra*	Pignut Hickory	CAGL	10	Good	No	No		no	Save	No
4594	*Carya ovata*	Shagbark Hickory	CAOV	7.5	Good	No	No		no	Save	No
4595	*Carya ovata*	Shagbark Hickory	CAOV	14	Good	No	No		no	Save	No
4596	*Acer saccharum*	Sugar Maple	ACSA	7	Good	No	No		no	Save	No
4597	*Quercus rubra*	Red Oak	QURU	10	Good	No	No		no	Save	No
4598	*Quercus rubra*	Red Oak	QURU	6	Good	No	No		no	Save	No
4599	*Acer saccharum*	Sugar Maple	ACSA	12	Good	No	No		no	Save	No
4600	*Quercus rubra*	Red Oak	QURU	7	Good	No	No		no	Save	No
4601	*Acer saccharinum*	Silver Maple	ACSAN	7	Good	No	Yes	MT: 5.5; submerged	no	Save	No
4602	*Salix nigra*	Black Willow	SANI	12	Good	No	No	MT: 12; submerged	no	Save	No
4603	*Salix nigra*	Black Willow	SANI	12	Good	No	No	MT: 5.5; submerged	no	Save	No
4604	*Salix nigra*	Black Willow	SANI	14.5	Good	No	No	Submerged	no	Save	No
4605	*Quercus bicolor*	Swamp White Oak	QUBI	9.5	Good	No	No	Submerged	no	Save	No
4606	*Acer saccharinum*	Silver Maple	ACSAN	6.5	Good	No	Yes	Submerged	no	Save	No
4607	*Acer saccharinum*	Silver Maple	ACSAN	11.5	Good	No	Yes	Submerged	no	Save	No
4608	*Salix nigra*	Black Willow	SANI	10.5	Good	No	Yes	Submerged	no	Save	No
4609	*Salix nigra*	Black Willow	SANI	7.5	Good	No	Yes	Submerged	no	Save	No
4610	*Salix nigra*	Black Willow	SANI	11.5	Good	No	Yes	Submerged	no	Save	No
4611	*Salix nigra*	Black Willow	SANI	11	Good	No	Yes	Submerged	no	Save	No
4612	*Salix nigra*	Black Willow	SANI	11	Good	No	Yes	Submerged	no	Save	No
4613	*Salix nigra*	Black Willow	SANI	9	Good	No	Yes	MT: 8; submerged	no	Save	No
4614	*Salix nigra*	Black Willow	SANI	8.5	Fair	No	Yes	Submerged; possible lightning strike	no	Save	No
4615	*Populus deltoides*	Eastern Cottonwood	PODE	17.5	Good	No	No	Submerged	no	Save	No
4616	*Salix nigra*	Black Willow	SANI	6	Good	No	Yes	Submerged	no	Save	No
4617	*Salix nigra*	Black Willow	SANI	8	Good	No	Yes	Submerged	no	Save	No
4618	*Salix nigra*	Black Willow	SANI	8.5	Good	No	Yes	Submerged	no	Save	No
4619	*Salix nigra*	Black Willow	SANI	6.5	Good	No	Yes	Submerged	no	Save	No
4620	*Salix nigra*	Black Willow	SANI	6.5	Good	No	Yes	Submerged	no	Save	No
4621	*Salix nigra*	Black Willow	SANI	8.5	Good	No	Yes	MT: 8, 5.5; submerged	no	Save	No
4622	*Salix nigra*	Black Willow	SANI	8.5	Good	No	Yes	MT: 6.5, 5.5	no	Save	No
4623	*Salix nigra*	Black Willow	SANI	6	Good	No	Yes	Submerged	no	Save	No
4624	*Salix nigra*	Black Willow	SANI	8.5	Good	No	Yes	Submerged	no	Save	No
4625	*Salix nigra*	Black Willow	SANI	7	Good	No	Yes	Submerged	no	Save	No
4626	*Salix nigra*	Black Willow	SANI	8.5	Good	No	Yes	Submerged	no	Save	No
4627	*Salix nigra*	Black Willow	SANI	6.5	Good	No	Yes	Submerged	no	Save	No
4628	*Salix nigra*	Black Willow	SANI	7.5	Good	No	Yes	Submerged	no	Save	No
4629	*Salix nigra*	Black Willow	SANI	6.5	Good	No	Yes	Submerged	no	Save	No
4630	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	9	Good	No	Yes	Submerged	no	Save	No
4631	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	8.5	Good	No	Yes	Submerged	no	Save	No
4632	*Populus deltoides*	Eastern Cottonwood	PODE	9.5	Good	No	No	Submerged	no	Save	No
4633	*Populus deltoides*	Eastern Cottonwood	PODE	19.5	Good	Yes	No	Submerged	no	Save	No
4634	*Salix nigra*	Black Willow	SANI	7.5	Good	No	Yes	Submerged	no	Save	No
4635	*Salix nigra*	Black Willow	SANI	13.5	Good	No	Yes	MT: 7; submerged	no	Save	No
4636	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	7	Poor	No	Yes	Submerged	no	Save	No
4637	*Salix nigra*	Black Willow	SANI	7	Good	No	Yes	Submerged	no	Save	No
4638	*Salix nigra*	Black Willow	SANI	15	Good	No	Yes	MT: 10; submerged	no	Save	No
4639	*Acer saccharinum*	Silver Maple	ACSAN	14.5	Good	No	Yes	MT: 12, 4; submerged	no	Save	No
4640	*Salix nigra*	Black Willow	SANI	8.5	Good	No	Yes	MT: 7, 6, 6.5	no	Save	No
4641	*Salix nigra*	Black Willow	SANI	7	Good	No	Yes	MT: 5	no	Save	No
4642	*Salix nigra*	Black Willow	SANI	7	Good	No	Yes	MT; submerged	no	Save	No
4643	*Salix nigra*	Black Willow	SANI	6.5	Good	No	Yes	Submerged	no	Save	No
4644	*Salix nigra*	Black Willow	SANI	8.5	Good	No	Yes	Submerged; dead trunk	no	Save	No
4645	*Populus deltoides*	Eastern Cottonwood	PODE	13	Good	No	No	Submerged	no	Save	No
4646	*Salix nigra*	Black Willow	SANI	9.5	Good	No	Yes	MT: 6; submerged	no	Save	No
4647	*Populus deltoides*	Eastern Cottonwood	PODE	26	Good	Yes	No	Submerged	no	Save	No
4648	*Populus deltoides*	Eastern Cottonwood	PODE	16	Good	No	No	Submerged	no	Save	No
4649	*Populus deltoides*	Eastern Cottonwood	PODE	10	Good	No	No	Submerged	no	Save	No
4650	*Populus deltoides*	Eastern Cottonwood	PODE	23	Good	Yes	No	Submerged	no	Save	No

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List◊	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
4651	*Salix nigra*	Black Willow	SANI	13	Good	No	Yes	MT: 12.5, submerged	no	Save	No
4652	*Acer saccharinum*	Silver Maple	ACSAN	11.5	Good	No	Yes	MT: 7; submerged	no	Save	No
4653	*Populus deltoides*	Eastern Cottonwood	PODE	9	Good	No	No		no	Save	No
4654	*Populus deltoides*	Eastern Cottonwood	PODE	31	Good	Yes	No		no	Save	No
4655	*Ulmus americana*	American Elm	ULAM	11.5	Good	No	Yes		no	Save	No
4656	*Populus deltoides*	Eastern Cottonwood	PODE	14	Good	No	No		no	Save	No
4657	*Populus deltoides*	Eastern Cottonwood	PODE	17.5	Good	No	No	Submerged	no	Save	No
4658	*Populus deltoides*	Eastern Cottonwood	PODE	19.5	Good	Yes	No	Submerged	no	Save	No
4659	*Salix nigra*	Black Willow	SANI	7	Good	No	Yes	Submerged	no	Save	No
4660	*Populus deltoides*	Eastern Cottonwood	PODE	16	Good	No	No	Submerged	no	Save	No
4661	*Populus deltoides*	Eastern Cottonwood	PODE	10	Good	No	No	Submerged	no	Save	No
4662	*Populus deltoides*	Eastern Cottonwood	PODE	22.5	Good	Yes	No	Submerged	no	Save	No
4663	*Salix nigra*	Black Willow	SANI	8	Good	No	Yes	Submerged	no	Save	No
4664	*Salix nigra*	Black Willow	SANI	10	Good	No	Yes	Submerged	no	Save	No
4665	*Salix nigra*	Black Willow	SANI	6	Good	No	Yes	Submerged	no	Save	No
4666	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes	Submerged	no	Save	No
4667	*Ulmus americana*	American Elm	ULAM	6	Good	No	Yes		no	Save	No
4668	*Populus deltoides*	Eastern Cottonwood	PODE	22.5	Good	Yes	No		no	Save	No
4669	*Populus deltoides*	Eastern Cottonwood	PODE	15	Good	No	No		no	Save	No
4670	*Populus deltoides*	Eastern Cottonwood	PODE	9	Good	No	No	MT: 7.5	no	Save	No
4671	*Ulmus americana*	American Elm	ULAM	9	Good	No	Yes		no	Save	No
4672	*Ulmus americana*	American Elm	ULAM	9	Good	No	Yes		no	Save	No
4673	*Ulmus americana*	American Elm	ULAM	9.5	Good	No	Yes	MT: 5.5	no	Save	No
4674	*Ulmus americana*	American Elm	ULAM	6.5	Good	No	Yes	MT: 5.5	no	Save	No
4675	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes		no	Save	No
4676	*Acer negundo*	Box Elder	ACNE	6	Good	No	Yes		no	Save	No
4677	*Rhamnus cathartica*	Common Buckthorn	RHCA	6.5	Good	No	Yes	MT: 3.5	no	Save	No
4678	*Acer negundo*	Box Elder	ACNE	7	Good	No	Yes	MT: 3.5	no	Save	No
4679	*Populus deltoides*	Eastern Cottonwood	PODE	11	Good	No	No	MT: 5, submerged	no	Save	No
4680	*Populus deltoides*	Eastern Cottonwood	PODE	9.5	Good	No	No	Submerged	no	Save	No
4681	*Populus deltoides*	Eastern Cottonwood	PODE	16.5	Good	No	No	Submerged	no	Save	No
4682	*Populus deltoides*	Eastern Cottonwood	PODE	8	Good	No	No	Submerged	no	Save	No
4683	*Populus deltoides*	Eastern Cottonwood	PODE	9	Good	No	No	Submerged	no	Save	No
4684	*Populus deltoides*	Eastern Cottonwood	PODE	11.5	Good	No	No	MT: 9.5, submerged	no	Save	No
4685	*Salix nigra*	Black Willow	SANI	12	Good	No	Yes	MT: 8, submerged	no	Save	No
4686	*Salix nigra*	Black Willow	SANI	10.5	Good	No	Yes	Submerged	no	Save	No
4687	*Salix nigra*	Black Willow	SANI	9.5	Good	No	Yes	Submerged	no	Save	No
4688	*Salix nigra*	Black Willow	SANI	14.5	Good	No	Yes	Submerged	no	Save	No
4689	*Salix nigra*	Black Willow	SANI	12	Good	No	Yes	Submerged	no	Save	No
4690	*Salix nigra*	Black Willow	SANI	13.5	Good	No	Yes	Submerged	no	Save	No
4691	*Salix nigra*	Black Willow	SANI	11.5	Good	No	Yes	MT: 10, 7.5; submerged	no	Save	No
4692	*Salix nigra*	Black Willow	SANI	16	Good	No	Yes	Submerged	no	Save	No
4693	*Salix nigra*	Black Willow	SANI	15.5	Good	No	Yes	Submerged	no	Save	No
4694	*Salix nigra*	Black Willow	SANI	11	Good	No	Yes	Submerged	no	Save	No
4695	*Populus deltoides*	Eastern Cottonwood	PODE	19.5	Good	Yes	No	Submerged	no	Save	No
4696	*Salix nigra*	Black Willow	SANI	7.5	Good	No	Yes	Submerged	no	Save	No
4697	*Salix nigra*	Black Willow	SANI	12	Good	No	Yes	Submerged	no	Save	No
4698	*Salix nigra*	Black Willow	SANI	15	Good	No	Yes	MT: 10; submerged	no	Save	No
4699	*Salix nigra*	Black Willow	SANI	12	Good	No	Yes	Submerged	no	Save	No
4700	*Salix nigra*	Black Willow	SANI	8	Good	No	Yes	Submerged	no	Save	No
4701	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	9	Good	No	Yes	Submerged	no	Save	No
4702	*Salix nigra*	Black Willow	SANI	15	Good	No	Yes	Submerged	no	Save	No
4703	*Salix nigra*	Black Willow	SANI	9.5	Good	No	Yes	Submerged	no	Save	No
4704	*Salix nigra*	Black Willow	SANI	10.5	Good	No	Yes	Submerged	no	Save	No
4705	*Salix nigra*	Black Willow	SANI	13.5	Good	No	Yes	Submerged	no	Save	No
4706	*Salix nigra*	Black Willow	SANI	14	Fair	No	Yes	Submerged	no	Save	No
4707	*Salix nigra*	Black Willow	SANI	8	Good	No	Yes	Submerged	no	Save	No
4708	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	11	Good	No	Yes	Submerged	no	Save	No
4709	*Salix nigra*	Black Willow	SANI	8	Good	No	Yes	Submerged	no	Save	No
4710	*Salix nigra*	Black Willow	SANI	7	Poor	No	Yes	Submerged	no	Save	No
4711	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	9	Good	No	Yes	Submerged	no	Save	No
4712	*Populus deltoides*	Eastern Cottonwood	PODE	10	Good	No	No	Submerged	no	Save	No
4713	*Salix nigra*	Black Willow	SANI	15	Good	No	Yes	MT: 10, 8, 7.5, 7.5, 5.5; submerged	no	Save	No
4714	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	10	Good	No	Yes	Submerged	no	Save	No
4715	*Salix nigra*	Black Willow	SANI	8	Fair	No	Yes	MT: 6, submerged	no	Save	No
4716	*Salix nigra*	Black Willow	SANI	10.5	Good	No	Yes	MT: 10, 7; submerged	no	Save	No
4717	*Salix nigra*	Black Willow	SANI	9	Good	No	Yes	Submerged	no	Save	No
4718	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	8	Fair	No	Yes	Submerged	no	Save	No
4719	*Salix nigra*	Black Willow	SANI	9	Good	No	Yes	Submerged	no	Save	No
4720	*Salix nigra*	Black Willow	SANI	8	Good	No	Yes	MT: 7.5, submerged	no	Save	No
4721	*Salix nigra*	Black Willow	SANI	7.5	Good	No	Yes	Submerged	no	Save	No
4722	*Salix nigra*	Black Willow	SANI	8.5	Good	No	Yes	MT: 7.5, 2; submerged	no	Save	No
4723	*Salix nigra*	Black Willow	SANI	9	Good	No	Yes	Submerged	no	Save	No
4724	*Salix nigra*	Black Willow	SANI	15	Good	No	Yes	Submerged	no	Save	No
4725	*Salix nigra*	Black Willow	SANI	12.5	Good	No	Yes	MT: 10, 8; submerged	no	Save	No
4726	*Salix nigra*	Black Willow	SANI	9	Good	No	Yes	Submerged	no	Save	No
4727	*Salix nigra*	Black Willow	SANI	12.5	Good	No	Yes	Submerged	no	Save	No
4728	*Salix nigra*	Black Willow	SANI	11.5	Good	No	Yes	Submerged	no	Save	No
4729	*Salix nigra*	Black Willow	SANI	9	Good	No	Yes	MT: 8.5; submerged	no	Save	No
4730	*Salix nigra*	Black Willow	SANI	12	Good	No	Yes	Submerged	no	Save	No
4731	*Salix nigra*	Black Willow	SANI	13.5	Good	No	Yes	Submerged	no	Save	No
4732	*Salix nigra*	Black Willow	SANI	12.5	Good	No	Yes	Submerged	no	Save	No
4733	*Salix nigra*	Black Willow	SANI	10.5	Good	No	Yes	Submerged	no	Save	No
4734	*Salix nigra*	Black Willow	SANI	8	Fair	No	Yes	Submerged	no	Save	No
4735	*Lost tag*	Lost Tag	NA	NA	NA				no	Save	No
4736	*Populus deltoides*	Eastern Cottonwood	PODE	19.5	Good	Yes	No	Submerged	no	Save	No
4737	*Ulmus americana*	American Elm	ULAM	9.5	Fair	No	Yes	Submerged	no	Save	No
4738	*Populus deltoides*	Eastern Cottonwood	PODE	9	Good	No	No	Submerged	no	Save	No
4739	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	6	Good	No	Yes	Submerged	no	Save	No
4740	*Salix nigra*	Black Willow	SANI	20	Fair	Yes	Yes	Submerged	no	Save	No
4741	*Salix nigra*	Black Willow	SANI	13	Poor	No	Yes	Submerged	no	Save	No
4747	*Salix nigra*	Black Willow	SANI	18	Good	Yes	Yes	MT: 10; submerged	no	Save	No
4748	*Salix nigra*	Black Willow	SANI	9.5	Good	No	Yes	Submerged	no	Save	No
4749	*Salix nigra*	Black Willow	SANI	10	Good	No	Yes	Submerged	no	Save	No
4750	*Salix nigra*	Black Willow	SANI	6.5	Good	No	Yes	Submerged	no	Save	No
4751	*Salix nigra*	Black Willow	SANI	6	Poor	No	Yes	Submerged	no	Save	No
4752	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	6.5	Good	No	Yes	Submerged	no	Save	No
4753	*Salix nigra*	Black Willow	SANI	11.5	Poor	No	Yes	Submerged	no	Save	No
4754	*Salix nigra*	Black Willow	SANI	10	Poor	No	Yes	Submerged	no	Save	No
4792	*Salix nigra*	Black Willow	SANI	12	Fair	No	Yes	Submerged	no	Save	No
4793	*Salix nigra*	Black Willow	SANI	19.5	Good	Yes	Yes	MT: 17; submerged	no	Save	No
4794	*Salix nigra*	Black Willow	SANI	11.5	Good	No	Yes	MT: 7.5; submerged	no	Save	No
4795	*Salix nigra*	Black Willow	SANI	11	Poor	No	Yes	MT: 4, 3.5; submerged	no	Save	No
4796	*Salix nigra*	Black Willow	SANI	11	Fair	No	Yes	MT: 6; submerged; vines	no	Save	No
4797	*Salix nigra*	Black Willow	SANI	8	Poor	No	Yes	Submerged	no	Save	No
4798	*Salix nigra*	Black Willow	SANI	7.5	Poor	No	Yes	Submerged	no	Save	No
4799	*Salix nigra*	Black Willow	SANI	14	Good	No	Yes	Submerged	no	Save	No
4800	*Salix nigra*	Black Willow	SANI	19.5	Fair	Yes	Yes	MT: 11; submerged	no	Save	No
4801	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	14	Fair	No	Yes	Submerged	no	Save	No
4806	*Salix nigra*	Black Willow	SANI	11.5	Good	No	Yes	Submerged	no	Save	No
4807	*Salix nigra*	Black Willow	SANI	15.5	Good	No	Yes	Submerged	no	Save	No
4808	*Salix nigra*	Black Willow	SANI	14	Good	No	Yes	Submerged	no	Save	No
4809	*Salix nigra*	Black Willow	SANI	17	Good	No	Yes	Submerged	no	Save	No
4810	*Salix nigra*	Black Willow	SANI	13	Good	No	Yes	Submerged	no	Save	No
4811	*Populus deltoides*	Eastern Cottonwood	PODE	48	Good	Yes	No	Submerged	no	Save	No
4812	*Salix nigra*	Black Willow	SANI	13	Good	No	Yes	MT: 12.5, 10, 11.5; submerged	no	Save	No
4813	*Salix nigra*	Black Willow	SANI	10	Good	No	Yes	Submerged	no	Save	No
4814	*Salix nigra*	Black Willow	SANI	9.5	Good	No	Yes	Submerged	no	Save	No
4815	*Salix nigra*	Black Willow	SANI	11.5	Good	No	Yes	Submerged	no	Save	No
4816	*Salix nigra*	Black Willow	SANI	8	Good	No	Yes	Submerged	no	Save	No
4817	*Salix nigra*	Black Willow	SANI	16	Good	No	Yes	Submerged	no	Save	No
4818	*Salix nigra*	Black Willow	SANI	6	Good	No	Yes	Submerged	no	Save	No
4819	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	20	Good	Yes	Yes	Submerged	no	Save	No
4820	*Salix nigra*	Black Willow	SANI	9.5	Good	No	Yes	Submerged	no	Save	No
4821	*Salix nigra*	Black Willow	SANI	12	Good	No	Yes	Submerged	no	Save	No
4822	*Salix nigra*	Black Willow	SANI	15	Good	No	Yes	MT: 11.5, 8.5; submerged	no	Save	No
4823	*Salix nigra*	Black Willow	SANI	14.5	Good	No	Yes	Submerged	no	Save	No
4824	*Salix nigra*	Black Willow	SANI	15.5	Good	No	Yes	Submerged	no	Save	No
4825	*Salix nigra*	Black Willow	SANI	12.5	Good	No	Yes	Submerged	no	Save	No
4826	*Salix nigra*	Black Willow	SANI	11.5	Fair	No	Yes	Submerged	no	Save	No
4827	*Salix nigra*	Black Willow	SANI	13.5	Fair	No	Yes	Submerged	no	Save	No
4828	*Carya ovata*	Shagbark Hickory	CAOV	29.5	Good	Yes	No		yes	Remove	No
4829	*Carya ovata*	Shagbark Hickory	CAOV	11	Good	No	No		no	Remove	Yes
4830	*Acer negundo*	Box Elder	ACNE	6.5	Good	No	Yes	MT: 5.5, 5, 4, 2.5	no	Remove	No
4831	*Quercus rubra*	Red Oak	QURU	8.0	Good	No	No		no	Save	No
4832	*Quercus rubra*	Red Oak	QURU	6.5	Good	No	No		no	Save	No
4833	*Ulmus pumila*	Siberian Elm	ULPU	7.5	Good	No	Yes		no	Save	No
4834	*Quercus rubra*	Red Oak	QURU	7.5	Good	No	No		no	Save	No
4835	*Quercus rubra*	Red Oak	QURU	6.0	Good	No	No		no	Save	No
4836	*Populus deltoides*	Eastern Cottonwood	PODE	12.0	Good	No	No		no	Save	No
4837	*Juglans nigra*	Black Walnut	JUNI	9.0	Good	No	No		no	Save	No
4838	*Juglans nigra*	Black Walnut	JUNI	7.0	Good	No	No		no	Save	No
4839	*Juglans nigra*	Black Walnut	JUNI	8.0	Good	No	No		no	Save	No
4840	*Juglans nigra*	Black Walnut	JUNI	6.5	Good	No	No	MT: 6	no	Save	No
4841	*Juglans nigra*	Black Walnut	JUNI	9.0	Good	No	No		no	Save	No
4842	*Populus deltoides*	Eastern Cottonwood	PODE	12.0	Good	No	No		no	Save	No
4843	*Populus deltoides*	Eastern Cottonwood	PODE	10.5	Good	No	No		no	Save	No
4844	*Juglans nigra*	Black Walnut	JUNI	8.5	Good	No	No		no	Save	No
4845	*Picea abies*	Norway Spruce	PIAB	17.0	Good	No	No		no	Save	No
4846	*Picea abies*	Norway Spruce	PIAB	14.0	Good	No	No		no	Save	No
4847	*Picea abies*	Norway Spruce	PIAB	9.5	Good	No	No		no	Save	No
4848	*Picea abies*	Norway Spruce	PIAB	14.0	Good	No	No		no	Save	No
4849	*Ulmus americana*	American Elm	ULAM	9.5	Good	No	Yes		no	Save	No
4850	*Picea abies*	Norway Spruce	PIAB	9.0	Good	No	No		no	Save	No

811 Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

TREE LIST

DATE OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 -- --
AS NOTED

DR. SK CH. --
P.M. MB

JOB 18003065
SHEET NO. 37

CAD FILE: 18003065SP-13-TREE.DWG

PRELIMINARY - NOT FOR CONSTRUCTION

K:\18003065 - BILTMORE PLATT RD\DWG\PLAN SETS\SITE-PRELIMINARY\18003065SP-13-TREE.DWG 2/25/2020 3:48 PM CHRIS ROTHHAAR

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List*	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
4851	*Picea abies*	Norway Spruce	PIAB	12.0	Good	No	No		no	Save	No
4852	*Picea abies*	Norway Spruce	PIAB	11.0	Good	No	No		no	Save	No
4853	*Picea abies*	Norway Spruce	PIAB	11.5	Good	No	No		no	Save	No
4854	*Picea abies*	Norway Spruce	PIAB	12.0	Good	No	No		no	Save	No
4855	*Picea abies*	Norway Spruce	PIAB	12.5	Good	No	No		no	Save	No
4856	*Picea abies*	Norway Spruce	PIAB	9.5	Good	No	No		no	Save	No
4857	*Picea abies*	Norway Spruce	PIAB	8.5	Good	No	No		no	Save	No
4858	*Picea abies*	Norway Spruce	PIAB	8.0	Good	No	No		no	Save	No
4859	*Picea abies*	Norway Spruce	PIAB	11.5	Good	No	No		no	Save	No
4860	*Picea abies*	Norway Spruce	PIAB	11.0	Good	No	No		no	Save	No
4861	*Picea abies*	Norway Spruce	PIAB	11.0	Good	No	No		no	Save	No
4862	*Picea abies*	Norway Spruce	PIAB	10.5	Good	No	No		no	Save	No
4863	*Picea abies*	Norway Spruce	PIAB	10.0	Good	No	No		no	Save	No
4864	*Picea abies*	Norway Spruce	PIAB	9.5	Good	No	No		no	Save	No
4865	*Picea abies*	Norway Spruce	PIAB	10.5	Good	No	No		no	Save	No
4866	*Picea abies*	Norway Spruce	PIAB	9.5	Good	No	No		no	Save	No
4867	*Picea abies*	Norway Spruce	PIAB	16.0	Good	No	No		no	Save	No
4868	*Picea abies*	Norway Spruce	PIAB	7.0	Good	No	No		no	Save	No
4869	*Picea abies*	Norway Spruce	PIAB	9.5	Good	No	No		no	Save	No
4870	*Picea abies*	Norway Spruce	PIAB	15.0	Good	No	No		no	Save	No
4871	*Picea abies*	Norway Spruce	PIAB	15.5	Good	No	No		no	Save	No
4872	*Picea abies*	Norway Spruce	PIAB	13.0	Good	No	No		no	Save	No
4873	*Ulmus americana*	American Elm	ULAM	10.0	Good	No	Yes		no	Save	No
4874	*Populus deltoides*	Eastern Cottonwood	PODE	26.0	Good	Yes	No		no	Save	No
4875	*Juglans nigra*	Black Walnut	JUNI	13.5	Good	No	No	MT: 5	no	Save	No
4876	*Ulmus americana*	American Elm	ULAM	8.5	Good	No	Yes		no	Save	No
4877	*Picea abies*	Norway Spruce	PIAB	10.0	Good	No	No		no	Save	No
4878	*Picea abies*	Norway Spruce	PIAB	7.0	Good	No	No		no	Save	No
4879	*Picea abies*	Norway Spruce	PIAB	12.0	Good	No	No		no	Save	No
4880	*Picea abies*	Norway Spruce	PIAB	10.0	Good	No	No		no	Save	No
4881	*Picea abies*	Norway Spruce	PIAB	9.0	Good	No	No		no	Save	No
4882	*Picea abies*	Norway Spruce	PIAB	9.5	Good	No	No		no	Save	No
4883	*Picea abies*	Norway Spruce	PIAB	14.0	Good	No	No		no	Save	No
4884	*Picea abies*	Norway Spruce	PIAB	8.5	Good	No	No		no	Save	No
4885	*Picea abies*	Norway Spruce	PIAB	11.0	Good	No	No		no	Save	No
4886	*Picea abies*	Norway Spruce	PIAB	7.0	Good	No	No		no	Save	No
4887	*Picea abies*	Norway Spruce	PIAB	10.0	Good	No	No		no	Save	No
4888	*Picea abies*	Norway Spruce	PIAB	7.0	Good	No	No		no	Save	No
4889	*Picea abies*	Norway Spruce	PIAB	13.0	Good	No	No		no	Save	No
4890	*Picea abies*	Norway Spruce	PIAB	7.0	Good	No	No		no	Save	No
4891	*Picea abies*	Norway Spruce	PIAB	11.0	Good	No	No		no	Save	No
4892	*Picea abies*	Norway Spruce	PIAB	14.0	Good	No	No		no	Save	No
4893	*Picea abies*	Norway Spruce	PIAB	8.5	Good	No	No		no	Save	No
4894	*Picea abies*	Norway Spruce	PIAB	8.0	Good	No	No		no	Save	No
4895	*Picea abies*	Norway Spruce	PIAB	7.0	Good	No	No		no	Save	No
4896	*Ulmus americana*	American Elm	ULAM	6.0	Good	No	Yes		no	Save	No
4897	*Ulmus americana*	American Elm	ULAM	6.0	Good	No	Yes		no	Save	No
4898	*Picea abies*	Norway Spruce	PIAB	13.5	Good	No	No		no	Save	No
4899	*Picea abies*	Norway Spruce	PIAB	9.5	Good	No	No		no	Save	No
4900	*Picea abies*	Norway Spruce	PIAB	12.0	Good	No	No		no	Save	No
4901	*Picea abies*	Norway Spruce	PIAB	14.0	Good	No	No		no	Save	No
4902	*Ulmus americana*	American Elm	ULAM	8.0	Good	No	Yes		no	Save	No
4903	*Picea abies*	Norway Spruce	PIAB	7.5	Good	No	No		no	Save	No
4904	*Picea abies*	Norway Spruce	PIAB	12.0	Good	No	No		no	Save	No
4905	*Picea abies*	Norway Spruce	PIAB	10.5	Good	No	No		no	Save	No
4906	*Picea abies*	Norway Spruce	PIAB	9.0	Good	No	No		no	Save	No
4907	*Picea abies*	Norway Spruce	PIAB	10.0	Good	No	No		no	Save	No
4908	*Morus alba*	White Mulberry	MOAB	6.5	Good	No	No	MT: 6.5	no	Save	No
4909	*Picea abies*	Norway Spruce	PIAB	14.0	Good	No	No		no	Save	No
4910	*Picea abies*	Norway Spruce	PIAB	10.5	Good	No	No		no	Save	No
4911	*Prunus serotina*	Black Cherry	PRSE	6.0	Good	No	No	MT: 4	no	Save	No
4912	*Picea abies*	Norway Spruce	PIAB	17.0	Good	No	No		no	Save	No
4913	*Picea abies*	Norway Spruce	PIAB	7.0	Good	No	No		no	Save	No
4914	*Picea abies*	Norway Spruce	PIAB	8.5	Good	No	No	MT: 7	no	Save	No
4915	*Picea abies*	Norway Spruce	PIAB	10.0	Good	No	No		no	Save	No
4916	*Picea abies*	Norway Spruce	PIAB	7.5	Good	No	No		no	Save	No
4917	*Picea abies*	Norway Spruce	PIAB	11.5	Good	No	No		no	Save	No
4918	*Picea abies*	Norway Spruce	PIAB	13.5	Good	No	No		no	Save	No
4919	*Picea abies*	Norway Spruce	PIAB	11.5	Good	No	No		no	Save	No
4920	*Picea abies*	Norway Spruce	PIAB	7.5	Good	No	No		no	Save	No
4921	*Picea abies*	Norway Spruce	PIAB	7.5	Good	No	No		no	Save	No
4922	*Picea abies*	Norway Spruce	PIAB	15.0	Good	No	No		no	Save	No
4923	*Picea abies*	Norway Spruce	PIAB	8.0	Good	No	No	MT: 5.5	no	Save	No
4924	*Picea abies*	Norway Spruce	PIAB	13.5	Good	No	No		no	Save	No
4925	*Picea abies*	Norway Spruce	PIAB	10.5	Good	No	No		no	Save	No
4926	*Picea abies*	Norway Spruce	PIAB	7.5	Good	No	No		no	Save	No
4927	*Picea abies*	Norway Spruce	PIAB	7.5	Good	No	No		no	Save	No
4928	*Picea abies*	Norway Spruce	PIAB	9.5	Good	No	No		no	Save	No
4929	*Picea abies*	Norway Spruce	PIAB	8.5	Good	No	No		no	Save	No
4930	*Picea abies*	Norway Spruce	PIAB	11.0	Good	No	No		no	Save	No
4931	*Picea abies*	Norway Spruce	PIAB	11.5	Good	No	No		no	Save	No
4932	*Picea abies*	Norway Spruce	PIAB	10.0	Good	No	No		no	Save	No
4933	*Picea abies*	Norway Spruce	PIAB	12.0	Good	No	No		no	Save	No
4934	*Picea abies*	Norway Spruce	PIAB	8.5	Good	No	No		no	Save	No
4935	*Picea abies*	Norway Spruce	PIAB	8.5	Good	No	No		no	Save	No
4936	*Picea abies*	Norway Spruce	PIAB	8.5	Good	No	No		no	Save	No
4937	*Picea abies*	Norway Spruce	PIAB	11.5	Good	No	No		no	Save	No
4938	*Picea abies*	Norway Spruce	PIAB	16.5	Good	No	No		no	Save	No
4939	*Picea abies*	Norway Spruce	PIAB	14.5	Good	No	No		no	Save	No
4940	*Ulmus americana*	American Elm	ULAM	6.5	Good	No	Yes		no	Save	No
4941	*Picea abies*	Norway Spruce	PIAB	6.0	Good	No	No		no	Save	No
4942	*Picea abies*	Norway Spruce	PIAB	7.5	Good	No	No		no	Save	No
4943	*Picea abies*	Norway Spruce	PIAB	8.0	Good	No	No		no	Save	No
4944	*Picea abies*	Norway Spruce	PIAB	11.5	Good	No	No		no	Save	No
4945	*Picea abies*	Norway Spruce	PIAB	11.0	Good	No	No		no	Save	No
4946	*Picea abies*	Norway Spruce	PIAB	13.0	Good	No	No		no	Save	No
4947	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes		no	Save	No
4948	*Picea abies*	Norway Spruce	PIAB	12.0	Good	No	No		no	Save	No
4949	*Picea abies*	Norway Spruce	PIAB	11.5	Good	No	No		no	Save	No
4950	*Picea abies*	Norway Spruce	PIAB	15.0	Good	No	No		no	Save	No
4951	*Picea abies*	Norway Spruce	PIAB	10.0	Good	No	No		no	Save	No
4952	*Picea abies*	Norway Spruce	PIAB	10.5	Good	No	No		no	Save	No
4953	*Prunus serotina*	Black Cherry	PRSE	7.5	Good	No	No		no	Save	No
4954	*Picea abies*	Norway Spruce	PIAB	10.0	Good	No	No		no	Save	No
4955	*Picea abies*	Norway Spruce	PIAB	9.5	Good	No	No		no	Save	No
4956	*Picea abies*	Norway Spruce	PIAB	9.5	Good	No	No		no	Save	No
4957	*Picea abies*	Norway Spruce	PIAB	12.0	Good	No	No		no	Save	No
4958	*Picea abies*	Norway Spruce	PIAB	14.5	Good	No	No		no	Save	No
4959	*Picea abies*	Norway Spruce	PIAB	11.5	Good	No	No		no	Save	No
4960	*Picea abies*	Norway Spruce	PIAB	6.5	Good	No	No		no	Save	No
4961	*Picea abies*	Norway Spruce	PIAB	8.0	Good	No	No		no	Save	No
4962	*Picea abies*	Norway Spruce	PIAB	6.5	Good	No	No		no	Save	No
4963	*Picea abies*	Norway Spruce	PIAB	6.0	Good	No	No		no	Save	No
4964	*Picea abies*	Norway Spruce	PIAB	8.5	Good	No	No		no	Save	No
4965	*Picea abies*	Norway Spruce	PIAB	8.0	Good	No	No		no	Save	No
4966	*Picea abies*	Norway Spruce	PIAB	13.5	Good	No	No		no	Save	No
4967	*Picea abies*	Norway Spruce	PIAB	8.5	Good	No	No		no	Save	No
4968	*Prunus serotina*	Black Cherry	PRSE	10.0	Good	No	No		no	Save	No
4969	*Prunus serotina*	Black Cherry	PRSE	9.5	Good	No	No		no	Save	No
4970	*Prunus serotina*	Black Cherry	PRSE	8.5	Good	No	No		no	Save	No
4971	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No		no	Save	No
4972	*Prunus serotina*	Black Cherry	PRSE	8.0	Good	No	No		no	Save	No
4973	*Carya glabra*	Pignut Hickory	CAGL	17.0	Good	Yes	No		no	Save	No
4974	*Acer negundo*	Box Elder	ACNE	8.0	Fair	No	Yes		no	Save	No
4975	*Juglans nigra*	Black Walnut	JUNI	28.0	Good	Yes	No		no	Save	No
4976	*Quercus rubra*	Red Oak	QURU	21.5	Good	Yes	No		no	Save	No
4977	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes		no	Save	No
4978	*Ulmus americana*	American Elm	ULAM	6.0	Good	No	Yes		no	Save	No
4979	*Carya ovata*	Shagbark Hickory	CAOV	9.5	Good	No	No	MT: 5.5 5	no	Save	No
4980	*Prunus serotina*	Black Cherry	PRSE	12.5	Good	No	No		no	Save	No
4981	*Prunus serotina*	Black Cherry	PRSE	6.0	Good	No	No		no	Save	No
4982	*Prunus serotina*	Black Cherry	PRSE	9.5	Good	No	No		no	Save	No
4983	*Prunus serotina*	Black Cherry	PRSE	12.5	Good	No	No		no	Save	No
4984	*Ulmus americana*	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
4985	*Prunus serotina*	Black Cherry	PRSE	13.0	Good	No	No		no	Save	No
4986	*Quercus rubra*	Red Oak	QURU	16.0	Good	Yes	No		no	Save	No
4987	*Carya glabra*	Pignut Hickory	CAGL	7.0	Good	No	No		no	Save	No
4988	*Quercus rubra*	Red Oak	QURU	8.0	Good	No	No		no	Save	No
4989	*Quercus rubra*	Red Oak	QURU	12.0	Good	No	No		no	Save	No
4990	*Ulmus americana*	American Elm	ULAM	13.5	Fair	No	Yes		no	Save	No
4991	*Quercus rubra*	Red Oak	QURU	15.0	Good	No	No		no	Save	No
4992	*Quercus rubra*	Red Oak	QURU	14.5	Good	No	No		no	Save	No
4993	*Carya glabra*	Pignut Hickory	CAGL	13.0	Good	No	No	MT: 9.5	no	Save	No
4994	*Quercus rubra*	Red Oak	QURU	6.0	Good	No	No	MT: 3	no	Save	No
4995	*Carya ovata*	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Save	No
4996	*Carya glabra*	Pignut Hickory	CAGL	7.5	Good	No	No		no	Save	No
4997	*Quercus rubra*	Red Oak	QURU	16.5	Good	Yes	No		no	Save	No
4998	*Prunus avium*	Sweet Cherry	PRAV	9.0	Good	No	No		no	Save	No
4999	*Ulmus americana*	American Elm	ULAM	6.5	Fair	No	Yes	Leaning	no	Save	No
5000	*Carya ovata*	Shagbark Hickory	CAOV	14.0	Good	No	No		no	Save	No

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List*	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
5001	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes		no	Save	No
5002	*Quercus alba*	White Oak	QUAL	25.5	Good	Yes	No		no	Save	No
5003	*Ulmus americana*	American Elm	ULAM	8.5	Good	No	Yes		no	Save	No
5004	*Ulmus americana*	American Elm	ULAM	12.5	Good	No	Yes		no	Save	No
5005	*Ulmus americana*	American Elm	ULAM	10.0	Good	No	Yes	MT: 7.5	no	Save	No
5006	*Ulmus americana*	American Elm	ULAM	6.0	Good	No	Yes	MT: 5.5	no	Save	No
5007	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes		no	Save	No
5008	*Ulmus americana*	American Elm	ULAM	8.5	Good	No	Yes	MT: 4.5	no	Save	No
5009	*Ulmus americana*	American Elm	ULAM	7.0	Good	No	Yes	MT: 5.5	no	Save	No
5010	*Ulmus americana*	American Elm	ULAM	6.5	Good	No	Yes		no	Save	No
5011	*Ulmus pumila*	Siberian Elm	ULPU	6.5	Good	No	Yes		no	Save	No
5012	*Ulmus pumila*	Siberian Elm	ULPU	12.5	Good	No	Yes		no	Save	No
5013	*Populus deltoides*	Eastern Cottonwood	PODE	15.0	Good	No	No		no	Save	No
5014	*Populus deltoides*	Eastern Cottonwood	PODE	20.5	Good	Yes	No	MT: 18, 8, 8, 6.5	no	Save	No
5015	*Quercus rubra*	Red Oak	QURU	12.5	Good	No	No		no	Save	No
5016	*Quercus rubra*	Red Oak	QURU	10.0	Good	No	No		no	Save	No
5017	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No		no	Save	No
5018	*Ulmus pumila*	Siberian Elm	ULPU	13.5	Fair	No	Yes		no	Save	No
5019	*Ulmus pumila*	Siberian Elm	ULPU	15.0	Fair	No	Yes	MT: 9	no	Save	No
5020	*Ulmus pumila*	Siberian Elm	ULPU	6.5	Fair	No	Yes		no	Save	No
5021	*Fraxinus pennsylvanica*	Green Ash	FRPE	8.5	Good	No	Yes		no	Save	No
5022	*Fraxinus pennsylvanica*	Green Ash	FRPE	6.0	Good	No	Yes		no	Save	No
5023	*Juglans nigra*	Black Walnut	JUNI	10.5	Good	No	No	MT: 10	no	Save	No
5024	*Juglans nigra*	Black Walnut	JUNI	12.0	Good	No	No	MT: 11.5, 11	no	Save	No
5025	*Carya glabra*	Pignut Hickory	CAGL	6.5	Good	No	No		no	Save	No
5026	*Carya glabra*	Pignut Hickory	CAGL	7.0	Good	No	No		no	Save	No
5027	*Quercus bicolor*	Swamp White Oak	QUBI	10.0	Good	No	No		no	Save	No
5028	*Malus sp.*	Apple	MASP	8.0	Good	No	No		no	Save	No
5029	*Quercus alba*	White Oak	QUAL	8.5	Good	No	No		no	Save	No
5030	*Quercus velutina*	Black Oak	QUVE	7.5	Good	No	No		no	Save	No
5031	*Prunus serotina*	Black Cherry	PRSE	10.0	Poor	No	No	Vines	no	Save	No
5032	*Carya glabra*	Pignut Hickory	CAGL	9.0	Good	No	No		no	Save	No
5033	*Acer negundo*	Box Elder	ACNE	7.5	Good	No	Yes		no	Save	No
5034	*Acer negundo*	Box Elder	ACNE	6.5	Good	No	Yes	MT: 4	no	Save	No
5035	*Populus deltoides*	Eastern Cottonwood	PODE	20.5	Good	Yes	No		no	Save	No
5036	*Prunus serotina*	Black Cherry	PRSE	8.0	Good	No	No		no	Save	No
5037	*Salix nigra*	Black Willow	SANI	14.0	Poor	No	Yes	Dying	no	Save	No
5038	*Populus deltoides*	Eastern Cottonwood	PODE	7.5	Good	No	No		no	Save	No
5039	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes		no	Save	No
5040	*Ulmus americana*	American Elm	ULAM	10.5	Good	No	Yes		no	Save	No
5041	*Pinus resinosa*	Red Pine	PIRE	8.0	Fair	No	No		no	Save	No
5042	*Fraxinus pennsylvanica*	Green Ash	FRPE	8.0	Good	No	Yes	MT: 3.5	no	Save	No
5043	*Prunus avium*	Sweet Cherry	PRAV	10.5	Good	No	No		no	Save	No
5044	*Acer negundo*	Box Elder	ACNE	10.5	Good	No	Yes	MT: 10	no	Save	No
5045	*Acer negundo*	Box Elder	ACNE	6.0	Good	No	Yes	MT: 2	no	Save	No
5046	*Prunus avium*	Sweet Cherry	PRAV	10.5	Good	No	No		no	Save	No
5047	*Prunus serotina*	Black Cherry	PRSE	10.5	Good	No	No		no	Save	No
5048	*Acer negundo*	Box Elder	ACNE	7.0	Good	No	Yes		no	Save	No
5049	*Acer negundo*	Box Elder	ACNE	7.5	Good	No	Yes		no	Save	No
5050	*Acer negundo*	Box Elder	ACNE	6.5	Good	No	Yes		no	Save	No
5051	*Salix nigra*	Black Willow	SANI	15.0	Good	No	Yes		no	Save	No
5052	*Quercus alba*	White Oak	QUAL	12.0	Good	No	No		no	Save	No
5053	*Prunus serotina*	Black Cherry	PRSE	9.0	Good	No	No		no	Save	No
5054	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No		no	Save	No
5055	*Malus sp.*	Apple	MASP	6.0	Good	No	No	MT: 6, 6, 4.5	no	Save	No
5056	*Ulmus americana*	American Elm	ULAM	10.5	Fair	No	Yes		no	Save	No
5057	*Prunus serotina*	Black Cherry	PRSE	12.0	Good	No	No		no	Save	No
5058	*Acer negundo*	Box Elder	ACNE	11.0	Good	No	Yes	MT: 9	no	Save	No
5059	*Acer negundo*	Box Elder	ACNE	19.5	Good	No	Yes	MT: 16.5	no	Save	No
5060	*Acer negundo*	Box Elder	ACNE	13.5	Good	No	Yes		no	Save	No
5061	*Acer negundo*	Box Elder	ACNE	8.0	Good	No	Yes	MT: 5.5	no	Save	No
5062	*Acer negundo*	Box Elder	ACNE	12.0	Good	No	Yes		no	Save	No
5063	*Quercus velutina*	Black Oak	QUVE	10.5	Good	No	No		no	Save	No
5064	*Prunus serotina*	Black Cherry	PRSE	9.0	Good	No	No		no	Save	No
5065	*Prunus serotina*	Black Cherry	PRSE	14.0	Good	No	No		no	Save	No
5066	*Carya glabra*	Pignut Hickory	CAGL	8.5	Good	No	No		no	Save	No
5067	*Prunus serotina*	Black Cherry	PRSE	6.0	Good	No	No		no	Save	No
5068	*Quercus velutina*	Black Oak	QUVE	12.5	Good	No	No		no	Save	No
5069	*Salix nigra*	Black Willow	SANI	9.0	Fair	No	Yes		no	Save	No
5070	*Prunus serotina*	Black Cherry	PRSE	6.0	Good	No	No		no	Save	No
5071	*Prunus serotina*	Black Cherry	PRSE	9.5	Good	No	No		no	Save	No
5072	*Prunus avium*	Sweet Cherry	PRAV	7.5	Good	No	No		no	Save	No
5073	*Quercus velutina*	Black Oak	QUVE	7.0	Good	No	No		no	Save	No
5074	*Prunus serotina*	Black Cherry	PRSE	11.0	Good	No	No	MT: 7	no	Save	No
5075	*Acer saccharinum*	Silver Maple	ACSAN	13.5	Good	No	Yes	MT: 7.5	no	Save	No
5076	*Quercus velutina*	Black Oak	QUVE	7.5	Good	No	No		no	Save	No
5077	*Rhamnus cathartica*	Common Buckthorn	RHCA	6.0	Good	No	Yes	MT: 5, 4	no	Save	No
5078	*Quercus velutina*	Black Oak	QUVE	9.0	Good	No	No		no	Save	No
5079	*Rhamnus cathartica*	Common Buckthorn	RHCA	6.5	Good	No	Yes	MT	no	Save	No
5080	*Prunus serotina*	Black Cherry	PRSE	11.0	Good	No	No		no	Save	No
5081	*Quercus alba*	White Oak	QUAL	24.0	Good	Yes	No		no	Save	No
5082	*Carya ovata*	Shagbark Hickory	CAOV	15.5	Good	No	No		no	Save	No
5083	*Carya ovata*	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
5084	*Quercus rubra*	Red Oak	QURU	25.5	Good	Yes	No		no	Save	No
5085	*Carya glabra*	Pignut Hickory	CAGL	8.0	Good	No	No		no	Save	No
5086	*Quercus rubra*	Red Oak	QURU	47.0	Good	Yes	No		no	Save	No
5087	*Quercus rubra*	Red Oak	QURU	29.5	Good	Yes	No		no	Save	No
5088	*Carya glabra*	Pignut Hickory	CAGL	11.0	Good	No	No		no	Save	No
5089	*Carya glabra*	Pignut Hickory	CAGL	9.0	Good	No	No		no	Save	No
5090	*Carya glabra*	Pignut Hickory	CAGL	12.5	Good	No	No		no	Save	No
5091	*Quercus alba*	White Oak	QUAL	14.0	Good	No	No		no	Save	No
5092	*Quercus alba*	White Oak	QUAL	11.5	Good	No	No		no	Save	No
5093	*Quercus rubra*	Red Oak	QURU	27.5	Good	Yes	No		no	Save	No
5094	*Carya glabra*	Pignut Hickory	CAGL	11.0	Good	No	No		no	Save	No
5095	*Carya glabra*	Pignut Hickory	CAGL	9.5	Good	No	No		no	Save	No
5096	*Carya ovata*	Shagbark Hickory	CAOV	6.5	Good	No	No		no	Save	No
5097	*Ulmus americana*	American Elm	ULAM	7.0	Good	No	Yes		no	Save	No
5098	*Ulmus americana*	American Elm	ULAM	6.0	Good	No	Yes		no	Save	No
5099	*Ulmus americana*	American Elm	ULAM	7.5	Good	No	Yes		no	Save	No
5100	*Carya ovata*	Shagbark Hickory	CAOV	15.0	Good	No	No		no	Save	No
5101	*Prunus serotina*	Black Cherry	PRSE	8.0	Good	No	No		no	Save	No
5102	*Quercus rubra*	Red Oak	QURU	27.0	Good	Yes	No		no	Save	No
5103	*Quercus alba*	White Oak	QUAL	23.5	Good	Yes	No		no	Save	No
5104	*Prunus avium*	Sweet Cherry	PRAV	8.5	Good	No	No		no	Save	No
5105	*Prunus serotina*	Black Cherry	PRSE	13.0	Good	No	No		no	Save	No
5106	*Prunus serotina*	Black Cherry	PRSE	6.0	Good	No	No		no	Save	No
5107	*Quercus rubra*	Red Oak	QURU	6.0	Good	No	No		no	Save	No
5108	*Prunus serotina*	Black Cherry	PRSE	8.5	Good	No	No		no	Save	No
5109	*Quercus rubra*	Red Oak	QURU	10.5	Good	No	No		no	Save	No
5110	*Quercus rubra*	Red Oak	QURU	10.5	Good	No	No		no	Save	No
5111	*Prunus serotina*	Black Cherry	PRSE	10.0	Good	No	No		no	Save	No
5112	*Prunus serotina*	Black Cherry	PRSE	13.5	Good	No	No		no	Save	No
5113	*Prunus serotina*	Black Cherry	PRSE	9.0	Good	No	No		no	Save	No
5114	*Prunus serotina*	Black Cherry	PRSE	11.5	Good	No	No	MT: 8	no	Save	No
5115	*Prunus serotina*	Black Cherry	PRSE	8.0	Good	No	No		no	Save	No
5116	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
5117	*Prunus serotina*	Black Cherry	PRSE	6.5	Fair	No	No		no	Save	No
5118	*Prunus serotina*	Black Cherry	PRSE	8.0	Good	No	No		no	Save	No
5119	*Prunus serotina*	Black Cherry	PRSE	10.0	Good	No	No	MT: 4	no	Save	No
5120	*Prunus serotina*	Black Cherry	PRSE	8.5	Good	No	No		no	Save	No
5121	*Acer saccharum*	Sugar Maple	ACSA	7.0	Good	No	No		no	Save	No
7001	*Salix nigra*	Black Willow	SANI	7.5	Fair	No	Yes		no	Save	No
7002	*Salix nigra*	Black Willow	SANI	17.5	Fair	No	Yes	MT: 14	no	Save	No
7003	*Salix nigra*	Black Willow	SANI	19.5	Good	Yes	Yes		no	Save	No
7004	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	17.0	Fair	No	Yes		no	Save	No
7005	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	15.5	Good	No	Yes		no	Save	No
7006	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	15.5	Good	No	Yes		no	Save	No
7007	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	12.0	Good	No	Yes		no	Save	No
7008	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	12.0	Poor	No	Yes	Dying	no	Save	No
7009	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	12.0	Poor	No	Yes	MT: 11	no	Save	No
7010	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	15.0	Fair	No	Yes	MT: 8.5	no	Save	No
7011	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	17.0	Good	No	Yes		no	Save	No
7012	*Salix nigra*	Black Willow	SANI	13.0	Fair	No	Yes	MT: 11, 15, 17.5, 15, 22, 16.5	no	Save	No
7013	*Salix nigra*	Black Willow	SANI	15.5	Poor	No	Yes		no	Save	No
7014	*Salix nigra*	Black Willow	SANI	9.0	Good	No	Yes		no	Save	No
7015	*Quercus bicolor*	Swamp White Oak	QUBI	6.0	Good	No	No		no	Save	No
7016	*Quercus bicolor*	Swamp White Oak	QUBI	6.0	Good	No	No		no	Save	No
7017	*Quercus bicolor*	Swamp White Oak	QUBI	6.0	Good	No	No		no	Save	No
7018	*Quercus bicolor*	Swamp White Oak	QUBI	6.0	Good	No	No		no	Save	No
7019	*Quercus rubra*	Red Oak	QURU	6.5	Good	No	No		no	Save	No
7020	*Quercus bicolor*	Swamp White Oak	QUBI	6.5	Good	No	No		no	Save	No
7021	*Quercus bicolor*	Swamp White Oak	QUBI	7.5	Good	No	No		no	Save	No
7022	*Salix nigra*	Black Willow	SANI	13.5	Fair	No	Yes		no	Save	No
7023	*Salix nigra*	Black Willow	SANI	13.0	Fair	No	Yes		no	Save	No
7024	*Salix nigra*	Black Willow	SANI	15.0	Good	No	Yes		no	Save	No
7025	*Salix nigra*	Black Willow	SANI	16.0	Fair	No	Yes	MT: 18, 8.5, 6.5	no	Save	No
7026	*Salix nigra*	Black Willow	SANI	12.0	Fair	No	Yes		no	Save	No

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List*	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
7027	*Salix nigra*	Black Willow	SANI	15.0	Good	No	Yes		no	Save	No
7028	*Salix nigra*	Black Willow	SANI	11.0	Poor	No	Yes		no	Save	No
7029	*Salix nigra*	Black Willow	SANI	14.5	Poor	No	Yes		no	Save	No
7030	*Salix nigra*	Black Willow	SANI	13.0	Fair	No	Yes		no	Save	No
7031	*Salix nigra*	Black Willow	SANI	17.5	Poor	No	Yes		no	Save	No
7032	*Salix nigra*	Black Willow	SANI	19.0	Good	Yes	Yes		no	Save	No
7033	*Salix nigra*	Black Willow	SANI	13.5	Poor	No	Yes		no	Save	No
7034	*Populus deltoides*	Eastern Cottonwood	PODE	24.0	Good	Yes	No		no	Save	No
7035	*Salix nigra*	Black Willow	SANI	12.0	Poor	No	Yes		no	Save	No
7036	*Salix nigra*	Black Willow	SANI	14.5	Poor	No	Yes	MT: 11	no	Save	No
7037	*Salix nigra*	Black Willow	SANI	9.0	Fair	No	Yes		no	Save	No
7038	*Populus deltoides*	Eastern Cottonwood	PODE	21.0	Good	Yes	No		no	Save	No
7039	*Populus deltoides*	Eastern Cottonwood	PODE	19.0	Fair	Yes	No		no	Save	No
7040	*Salix nigra*	Black Willow	SANI	12.0	Fair	No	Yes		no	Save	No
7041	*Salix nigra*	Black Willow	SANI	15.5	Fair	No	Yes	MT: 15	no	Save	No
7042	*Salix nigra*	Black Willow	SANI	7.0	Poor	No	Yes		no	Save	No
7043	*Salix nigra*	Black Willow	SANI	9.0	Poor	No	Yes		no	Save	No
7044	*Salix nigra*	Black Willow	SANI	9.5	Poor	No	Yes		no	Save	No
7045	*Salix nigra*	Black Willow	SANI	13.0	Fair	No	Yes		no	Save	No
7046	*Salix nigra*	Black Willow	SANI	13.0	Fair	No	Yes		no	Save	No
7047	*Salix nigra*	Black Willow	SANI	9.0	Poor	No	Yes		no	Save	No
7048	*Salix nigra*	Black Willow	SANI	11.0	Good	No	Yes		no	Save	No
7049	*Salix nigra*	Black Willow	SANI	10.0	Good	No	Yes		no	Save	No
7050	*Salix nigra*	Black Willow	SANI	11.0	Poor	No	Yes		no	Save	No
7051	*Salix nigra*	Black Willow	SANI	11.5	Fair	No	Yes		no	Save	No
7052	*Salix nigra*	Black Willow	SANI	12.0	Fair	No	Yes		no	Save	No
7053	*Salix amygdaloides*	Peach-Leaf Willow	SAAM	10.5	Good	No	Yes		no	Save	No
7054	*Rhamnus cathartica*	Common Buckthorn	RHCA	6.5	Fair	No	Yes		no	Save	No
7055	*Rhamnus cathartica*	Common Buckthorn	RHCA	9.0	Fair	No	Yes	MT: 4	no	Save	No
7056	*Acer saccharinum*	Silver Maple	ACSAN	13.5	Good	No	Yes		no	Save	No
7057	*Quercus rubra*	Red Oak	QURU	7.0	Good	No	No		no	Save	No
7058	*Quercus rubra*	Red Oak	QURU	12.0	Good	No	No		no	Save	No
7059	*Acer rubrum*	Red Maple	ACRU	8.0	Good	No	No		no	Save	No
7060	*Quercus rubra*	Red Oak	QURU	9.0	Good	No	No		no	Save	No
7061	*Quercus rubra*	Red Oak	QURU	7.5	Good	No	No		no	Save	No
7062	*Quercus rubra*	Red Oak	QURU	17.0	Good	No	No		no	Save	No
7063	*Prunus serotina*	Black Cherry	PRSE	11.5	Good	No	No		no	Save	No
7064	*Carya ovata*	Shagbark Hickory	CAOV	7.0	Good	No	No		no	Save	No
7065	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No		no	Save	No
7066	*Carya ovata*	Shagbark Hickory	CAOV	6.0	Fair	No	No		no	Save	No
7067	*Carya ovata*	Shagbark Hickory	CAOV	12.5	Good	No	No		no	Save	No
7068	*Carya ovata*	Shagbark Hickory	CAOV	12.5	Excellent	No	No		no	Save	No
7069	*Carya ovata*	Shagbark Hickory	CAOV	9.0	Excellent	No	No		no	Save	No
7070	*Quercus rubra*	Red Oak	QURU	13.0	Good	No	No		no	Save	No
7071	*Prunus serotina*	Black Cherry	PRSE	12.0	Poor	No	No		no	Save	No
7072	*Quercus rubra*	Red Oak	QURU	23.0	Good	Yes	No		no	Save	No
7073	*Acer rubrum*	Red Maple	ACRU	8.0	Good	No	No		no	Save	No
7074	*Acer rubrum*	Red Maple	ACRU	6.0	Fair	No	No		no	Save	No
7075	*Quercus rubra*	Red Oak	QURU	28.0	Good	Yes	No		no	Save	No
7076	*Carya ovata*	Shagbark Hickory	CAOV	8.5	Good	No	No		no	Save	No
7077	*Quercus rubra*	Red Oak	QURU	8.0	Good	No	No		no	Save	No
7078	*Acer rubrum*	Red Maple	ACRU	13.5	Good	No	No		no	Save	No
7079	*Carya ovata*	Shagbark Hickory	CAOV	8.0	Good	No	No		no	Save	No
7080	*Quercus rubra*	Red Oak	QURU	11.0	Fair	No	No		no	Save	No
7081	*Quercus rubra*	Red Oak	QURU	25.0	Good	Yes	No		no	Save	No
7082	*Quercus rubra*	Red Oak	QURU	7.0	Fair	No	No		no	Save	No
7083	*Prunus serotina*	Black Cherry	PRSE	7.5	Poor	No	No		no	Save	No
7084	*Quercus rubra*	Red Oak	QURU	8.0	Fair	No	No		no	Save	No
7085	*Prunus serotina*	Black Cherry	PRSE	10.0	Fair	No	No		no	Save	No
7086	*Acer rubrum*	Red Maple	ACRU	18.5	Excellent	Yes	No	MT: 14	no	Save	No
7087	*Quercus velutina*	Black Oak	QUVE	30.0	Good	Yes	No		no	Save	No
7088	*Acer rubrum*	Red Maple	ACRU	20.0	Good	Yes	No		no	Save	No
7089	*Acer rubrum*	Red Maple	ACRU	7.0	Excellent	No	No		no	Save	No
7090	*Prunus serotina*	Black Cherry	PRSE	13.0	Good	No	No		no	Save	No
7091	*Acer rubrum*	Red Maple	ACRU	15.5	Good	No	No	MT: 10, 9	no	Save	No
7092	*Quercus velutina*	Black Oak	QUVE	40.0	Fair	Yes	No		no	Save	No
7093	*Acer rubrum*	Red Maple	ACRU	35.0	Poor	Yes	No		no	Save	No
7094	*Quercus velutina*	Black Oak	QUVE	7.5	Fair	No	No		no	Save	No
7095	*Quercus velutina*	Black Oak	QUVE	16.5	Good	No	No		no	Save	No
7096	*Acer rubrum*	Red Maple	ACRU	11.0	Good	No	No		no	Save	No
7097	*Quercus alba*	White Oak	QUAL	32.0	Good	Yes	No		no	Save	No
7098	*Quercus rubra*	Red Oak	QURU	29.0	Good	Yes	No		no	Save	No
7099	*Quercus rubra*	Red Oak	QURU	17.5	Excellent	No	No		no	Save	No
7100	*Acer rubrum*	Red Maple	ACRU	8.0	Good	No	No		no	Save	No
7101	*Prunus serotina*	Black Cherry	PRSE	17.0	Fair	No	No		no	Save	No
7102	*Prunus serotina*	Black Cherry	PRSE	15.5	Fair	No	No	MT: 11	no	Save	No
7103	*Carya ovata*	Shagbark Hickory	CAOV	11.5	Good	No	No		no	Save	No
7104	*Quercus rubra*	Red Oak	QURU	10.0	Fair	No	No		no	Save	No
7105	*Quercus rubra*	Red Oak	QURU	7.5	Fair	No	No		no	Save	No
7106	*Prunus serotina*	Black Cherry	PRSE	13.0	Fair	No	No		no	Save	No
7107	*Prunus avium*	Sweet Cherry	PRAV	8.0	Fair	No	No		no	Save	No
7108	*Carya ovata*	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
7109	*Quercus velutina*	Black Oak	QUVE	40.0	Good	Yes	No		no	Save	No
7110	*Quercus velutina*	Black Oak	QUVE	17.5	Fair	No	No		no	Save	No
7111	*Quercus rubra*	Red Oak	QURU	9.0	Good	No	No		no	Save	No
7112	*Quercus velutina*	Black Oak	QUVE	6.5	Good	No	No		no	Save	No
7113	*Quercus rubra*	Red Oak	QURU	9.5	Good	No	No		no	Save	No
7114	*Acer negundo*	Box Elder	ACNE	9.0	Fair	No	Yes		no	Save	No
7115	*Acer negundo*	Box Elder	ACNE	11.5	Poor	No	Yes		no	Save	No
7116	*Acer negundo*	Box Elder	ACNE	8.5	Poor	No	Yes		no	Save	No
7117	*Acer negundo*	Box Elder	ACNE	7.5	Fair	No	Yes	MT: 8	no	Save	No
7118	*Acer negundo*	Box Elder	ACNE	9.5	Fair	No	Yes		no	Save	No
7119	*Acer negundo*	Box Elder	ACNE	9.5	Fair	No	Yes	MT: 5	no	Save	No
7120	*Acer negundo*	Box Elder	ACNE	10.5	Fair	No	Yes	MT: 6	no	Save	No
7121	*Acer negundo*	Box Elder	ACNE	6.5	Fair	No	Yes		no	Save	No
7122	*Acer negundo*	Box Elder	ACNE	8.0	Fair	No	Yes		no	Save	No
7123	*Acer negundo*	Box Elder	ACNE	14.0	Poor	No	Yes	MT: 12.5	no	Save	No
7124	*Acer negundo*	Box Elder	ACNE	16.0	Fair	No	Yes	MT: 9	no	Save	No
7125	*Acer negundo*	Box Elder	ACNE	8.0	Poor	No	Yes		no	Save	No
7126	*Acer negundo*	Box Elder	ACNE	13.0	Fair	No	Yes		no	Save	No
7127	*Acer negundo*	Box Elder	ACNE	9.0	Poor	No	Yes		no	Save	No
7128	*Acer negundo*	Box Elder	ACNE	7.0	Poor	No	Yes		no	Save	No
7129	*Pinus resinosa*	Red Pine	PIRE	14.0	Fair	No	No		no	Save	No
7130	*Acer negundo*	Box Elder	ACNE	7.0	Fair	No	Yes		no	Save	No
7131	*Acer negundo*	Box Elder	ACNE	9.0	Fair	No	Yes		no	Save	No
7132	*Acer negundo*	Box Elder	ACNE	7.0	Fair	No	Yes		no	Save	No
7133	*Pinus resinosa*	Red Pine	PIRE	11.5	Fair	No	No		no	Save	No
7134	*Acer negundo*	Box Elder	ACNE	9.5	Fair	No	Yes		no	Save	No
7135	*Ulmus pumila*	Siberian Elm	ULPU	9.5	Good	No	Yes		no	Save	No
7136	*Pinus resinosa*	Red Pine	PIRE	12.5	Fair	No	No		no	Save	No
7137	*Acer negundo*	Box Elder	ACNE	10.0	Poor	No	Yes	MT: 6.5	no	Save	No
7138	*Acer negundo*	Box Elder	ACNE	10.5	Fair	No	Yes		no	Save	No
7139	*Acer negundo*	Box Elder	ACNE	13.0	Fair	No	Yes	MT: 9.5	no	Save	No
7140	*Acer negundo*	Box Elder	ACNE	10.0	Fair	No	Yes		no	Save	No
7141	*Acer negundo*	Box Elder	ACNE	7.0	Fair	No	Yes		no	Save	No
7142	*Pinus resinosa*	Red Pine	PIRE	11.5	Fair	No	No		no	Save	No
7143	*Pinus resinosa*	Red Pine	PIRE	10.5	Fair	No	No		no	Save	No
7144	*Acer negundo*	Box Elder	ACNE	11.5	Fair	No	Yes		no	Save	No
7145	*Pinus resinosa*	Red Pine	PIRE	15.5	Fair	No	No		no	Save	No
7146	*Acer negundo*	Box Elder	ACNE	7.0	Fair	No	Yes		no	Save	No
7147	*Acer negundo*	Box Elder	ACNE	14.5	Poor	No	Yes		no	Save	No
7148	*Acer negundo*	Box Elder	ACNE	12.0	Poor	No	Yes		no	Save	No
7149	*Acer negundo*	Box Elder	ACNE	12.0	Poor	No	Yes	MT: 8	no	Save	No
7150	*Acer negundo*	Box Elder	ACNE	7.5	Poor	No	Yes		no	Save	No
7151	*Ulmus pumila*	Siberian Elm	ULPU	7.5	Poor	No	Yes		no	Save	No
7152	*Pinus resinosa*	Red Pine	PIRE	13.0	Fair	No	No		no	Save	No
7153	*Acer negundo*	Box Elder	ACNE	10.0	Fair	No	Yes		no	Save	No
7154	*Acer negundo*	Box Elder	ACNE	17.0	Poor	No	Yes	MT: 5.5	no	Save	No
7155	*Pinus resinosa*	Red Pine	PIRE	9.5	Fair	No	No		no	Save	No
7156	*Ulmus pumila*	Siberian Elm	ULPU	12.0	Fair	No	Yes		no	Save	No
7157	*Pinus resinosa*	Red Pine	PIRE	11.5	Good	No	No		no	Save	No
7158	*Pinus resinosa*	Red Pine	PIRE	11.0	Fair	No	No		no	Save	No
7159	*Pinus resinosa*	Red Pine	PIRE	10.5	Fair	No	No		no	Save	No
7160	*Acer negundo*	Box Elder	ACNE	11.0	Fair	No	Yes	MT: 4	no	Save	No
7161	*Pinus resinosa*	Red Pine	PIRE	11.5	Fair	No	No		no	Save	No
7162	*Prunus avium*	Sweet Cherry	PRAV	11.5	Good	No	No		no	Save	No
7163	*Pinus resinosa*	Red Pine	PIRE	7.0	Poor	No	No		no	Save	No
7164	*Acer negundo*	Box Elder	ACNE	9.5	Poor	No	Yes	MT: 6.5	no	Save	No
7165	*Acer negundo*	Box Elder	ACNE	14.0	Good	No	Yes		no	Save	No
7166	*Prunus serotina*	Black Cherry	PRSE	9.5	Fair	No	No		no	Save	No
7167	*Acer negundo*	Box Elder	ACNE	13.0	Fair	No	Yes	MT: 9	no	Save	No
7168	*Acer negundo*	Box Elder	ACNE	7.5	Fair	No	Yes		no	Save	No
7169	*Prunus serotina*	Black Cherry	PRSE	8.5	Fair	No	No		no	Save	No
7170	*Prunus serotina*	Black Cherry	PRSE	7.5	Fair	No	No		no	Save	No
7171	*Carya ovata*	Shagbark Hickory	CAOV	7.0	Excellent	No	No		no	Save	No
7172	*Rhamnus cathartica*	Common Buckthorn	RHCA	6.0	Poor	No	Yes		no	Save	No
7173	*Carya ovata*	Shagbark Hickory	CAOV	6.5	Excellent	No	No		no	Save	No
7174	*Prunus serotina*	Black Cherry	PRSE	11.5	Poor	No	No	MJT: 10.5	no	Save	No
7175	*Ulmus americana*	American Elm	ULAM	20.0	Good	Yes	Yes		no	Save	No
7176	*Carya ovata*	Shagbark Hickory	CAOV	10.5	Fair	No	No	MT: 7	no	Save	No

Tree Tag #	Botanical Name	Common Name	Data Code	Diameter (inches)	Condition	Heritage Tree	Weeds & Invasive List*	Comments	In Building Envelope, Street, or Driveway	To Be Removed	To Be Mitigated
7177	*Rhamnus cathartica*	Common Buckthorn	RHCA	7.0	Fair	No	Yes		no	Save	No
7178	*Prunus serotina*	Black Cherry	PRSE	7.0	Poor	No	No	MT: 6	no	Save	No
7179	*Prunus serotina*	Black Cherry	PRSE	7.0	Good	No	No		no	Save	No
7180	*Ulmus americana*	American Elm	ULAM	10.0	Fair	No	Yes		no	Save	No
7181	*Carya ovata*	Shagbark Hickory	CAOV	7.5	Excellent	No	No		no	Save	No
7182	*Prunus serotina*	Black Cherry	PRSE	8.0	Fair	No	No		no	Save	No
7183	*Quercus velutina*	Black Oak	QUVE	17.5	Fair	Yes	No		no	Save	No
7184	*Malus sp.*	Apple	MASP	10.5	Fair	No	No		no	Save	No
7185	*Ulmus americana*	American Elm	ULAM	9.5	Fair	No	Yes		no	Remove	No
7186	*Acer negundo*	Box Elder	ACNE	10.0	Fair	No	Yes		no	Remove	No
7187	*Quercus velutina*	Black Oak	QUVE	7.0	Good	No	No		no	Save	No
7188	*Quercus velutina*	Black Oak	QUVE	6.0	Fair	No	No		no	Save	No
7189	*Quercus velutina*	Black Oak	QUVE	10.0	Good	No	No		no	Save	No
7190	*Quercus velutina*	Black Oak	QUVE	6.0	Fair	No	No		no	Save	No
7191	*Quercus velutina*	Black Oak	QUVE	8.0	Fair	No	No		no	Save	No
7192	*Prunus serotina*	Black Cherry	PRSE	11.5	Fair	No	No		no	Save	No
7193	*Prunus serotina*	Black Cherry	PRSE	6.5	Good	No	No		no	Save	No
7194	*Prunus serotina*	Black Cherry	PRSE	8.0	Fair	No	No		no	Save	No
7195	*Acer rubrum*	Red Maple	ACRU	10.0	Good	No	No		no	Save	No
7196	*Carya ovata*	Shagbark Hickory	CAOV	8.0	Excellent	No	No	MT: 12.5	no	Save	No
7197	*Carya ovata*	Shagbark Hickory	CAOV	8.5	Fair	No	No		no	Save	No
7198	*Prunus serotina*	Black Cherry	PRSE	27.0	Poor	Yes	No		no	Save	No
7199	*Prunus serotina*	Black Cherry	PRSE	7.5	Good	No	No		no	Save	No
7200	*Acer saccharinum*	Silver Maple	ACSAN	9.5	Good	No	Yes		no	Save	No
7201	*Carya ovata*	Shagbark Hickory	CAOV	7.5	Excellent	No	No		no	Save	No
7202	*Carya ovata*	Shagbark Hickory	CAOV	7.0	Excellent	No	No		no	Save	No
7203	*Acer rubrum*	Red Maple	ACRU	9.0	Fair	No	No		no	Save	No
7204	*Acer saccharinum*	Silver Maple	ACSAN	7.5	Good	No	Yes		no	Save	No
7205	*Acer rubrum*	Red Maple	ACRU	6.0	Good	No	No		no	Save	No
7206	*Carya ovata*	Shagbark Hickory	CAOV	6.5	Excellent	No	No		no	Save	No
7207	*Acer rubrum*	Red Maple	ACRU	6.0	Poor	No	No		no	Save	No
7208	*Quercus velutina*	Black Oak	QUVE	13.5	Excellent	No	No		no	Save	No
7209	*Carya ovata*	Shagbark Hickory	CAOV	17.0	Good	Yes	No		no	Save	No
7210	*Acer rubrum*	Red Maple	ACRU	7.5	Good	No	No		no	Save	No
7211	*Carya ovata*	Shagbark Hickory	CAOV	16.5	Excellent	Yes	No		no	Save	No
7212	*Carya ovata*	Shagbark Hickory	CAOV	22.0	Excellent	Yes	No		no	Save	No
7213	*Acer rubrum*	Red Maple	ACRU	26.0	Fair	Yes	No	MT: 7	no	Save	No
7214	*Prunus avium*	Sweet Cherry	PRAV	13.0	Good	No	No		no	Save	No
7216	*Salix alba*	White Willow	SAAL	9.0	Excellent	No	Yes		no	Save	No
7217	*Acer rubrum*	Red Maple	ACRU	6.5	Good	No	No		no	Save	No
7218	*Quercus velutina*	Black Oak	QUVE	11.0	Excellent	No	No		no	Save	No
7219	*Prunus serotina*	Black Cherry	PRSE	7.0	Good	No	No		no	Save	No
7220	*Acer rubrum*	Red Maple	ACRU	7.0	Good	No	No		no	Save	No
7221	*Prunus serotina*	Black Cherry	PRSE	8.0	Good	No	No		no	Save	No
7222	*Acer rubrum*	Red Maple	ACRU	8.0	Excellent	No	No		no	Save	No
7223	*Prunus serotina*	Black Cherry	PRSE	10.0	Good	No	No		no	Save	No
7224	*Acer rubrum*	Red Maple	ACRU	10.0	Good	No	No		no	Save	No
7225	*Acer rubrum*	Red Maple	ACRU	8.0	Excellent	No	No		no	Save	No
7226	*Acer rubrum*	Red Maple	ACRU	7.0	Good	No	No		no	Save	No
7227	*Carya glabra*	Pignut Hickory	CAGL	19.0	Excellent	Yes	No		no	Save	No
7228	*Quercus velutina*	Black Oak	QUVE	35.0	Fair	Yes	No		no	Save	No
7229	*Acer rubrum*	Red Maple	ACRU	8.5	Fair	No	No		no	Save	No
7230	*Carya glabra*	Pignut Hickory	CAGL	30.0	Good	Yes	No		no	Save	No
7231	*Carya glabra*	Pignut Hickory	CAGL	18.0	Good	Yes	No		no	Save	No
7232	*Acer saccharinum*	Silver Maple	ACSAN	30.0	Good	Yes	No		no	Save	No
7233	*Carya ovata*	Shagbark Hickory	CAOV	21.5	Good	Yes	No		no	Save	No
7234	*Acer saccharinum*	Silver Maple	ACSAN	18.5	Good	Yes	Yes		no	Save	No
7235	*Quercus velutina*	Black Oak	QUVE	26.5	Fair	Yes	No		no	Save	No
7236	*Acer rubrum*	Red Maple	ACRU	18.0	Good	Yes	No		no	Save	No
7237	*Acer rubrum*	Red Maple	ACRU	20.0	Good	Yes	No		no	Save	No
7238	*Tilia americana*	American Basswood	TIAM	8.5	Good	No	No		no	Save	No
7239	*Acer rubrum*	Red Maple	ACRU	17.5	Good	Yes	No		no	Save	No
7240	*Quercus rubra*	Red Oak	QURU	24.5	Good	Yes	No		no	Save	No
7241	*Carya ovata*	Shagbark Hickory	CAOV	7.0	Excellent	No	No		no	Save	No
7242	*Quercus rubra*	Red Oak	QURU	40.5	Good	Yes	No		no	Save	No
7243	*Quercus alba*	White Oak	QUAL	13.0	Good	No	No		no	Save	No
7244	*Carya ovata*	Shagbark Hickory	CAOV	11.5	Fair	No	No		no	Save	No
7245	*Carya ovata*	Shagbark Hickory	CAOV	14.0	Good	No	No		no	Save	No
7246	*Carya glabra*	Pignut Hickory	CAGL	12.5	Good	No	No		no	Save	No
7247	*Carya glabra*	Pignut Hickory	CAGL	16.0	Good	Yes	No		no	Save	No
7248	*Carya ovata*	Shagbark Hickory	CAOV	10.5	Excellent	No	No		no	Save	No
7249	*Ulmus americana*	American Elm	ULAM	9.5	Fair	No	Yes		no	Save	No
7250	*Carya ovata*	Shagbark Hickory	CAOV	11.5	Good	No	No		no	Save	No
7251	*Acer rubrum*	Red Maple	ACRU	16.5	Good	Yes	No		no	Save	No
7252	*Acer rubrum*	Red Maple	ACRU	25.0	Excellent	Yes	No		no	Save	No
7253	*Carya ovata*	Shagbark Hickory	CAOV	20.0	Good	Yes	No		no	Save	No
7254	*Carya glabra*	Pignut Hickory	CAGL	25.0	Fair	Yes	No		no	Save	No
7255	*Quercus rubra*	Red Oak	QURU	11.0	Fair	No	No		no	Save	No
7256	*Carya glabra*	Pignut Hickory	CAGL	9.0	Good	No	No		no	Save	No
7257	*Carya glabra*	Pignut Hickory	CAGL	25.0	Good	Yes	No		no	Save	No
7258	*Carya glabra*	Pignut Hickory	CAGL	26.0	Poor	Yes	No		no	Save	No
7259	*Carya ovata*	Shagbark Hickory	CAOV	10.0	Good	No	No		no	Save	No
7260	*Quercus rubra*	Red Oak	QURU	26.5	Fair	No	No		no	Save	No
7261	*Carya glabra*	Pignut Hickory	CAGL	9.0	Excellent	No	No		no	Save	No
7262	*Quercus alba*	White Oak	QUAL	11.0	Good	No	No		no	Save	No
7263	*Ulmus americana*	American Elm	ULAM	11.0	Poor	No	Yes		no	Save	No
7264	*Carya ovata*	Shagbark Hickory	CAOV	11.0	Good	No	No		no	Save	No

*- Detotes tree shall not be removed but will be mitigated for in the event of future removal

811 Know what's **below.** **Call** before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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734.994.4000

SECTION 34
TOWN 2 SOUTH, RANGE 5 EAST
PITTSFIELD TOWNSHIP
WASHTENAW COUNTY, MICHIGAN

CLIENT
BEMIS ROAD SOBI, L.L.C.
HERITAGE PRESERVE
PRELIMINARY SITE PLAN

TREE LIST

DATE
OCTOBER 4, 2019

12/12/19 PER WCWRC
02/25/20 PER TWP

REVISIONS

SCALE 0 -- --
AS NOTED

DR. SK | CH. --

P.M. MB

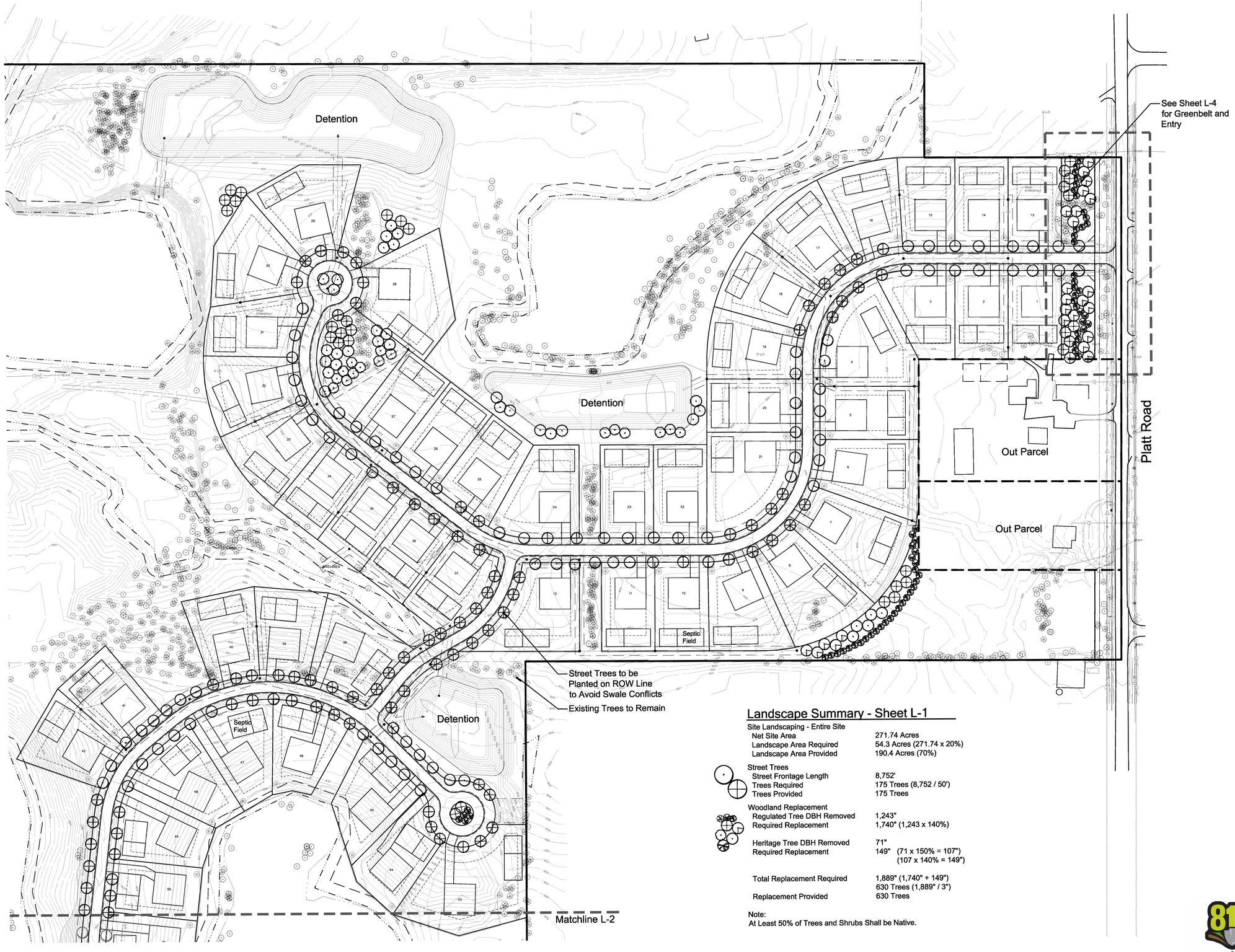
JOB 18003065

SHEET NO.
38

CAD FILE: 18003065SP-13-TREE.DWG

K:\18003065 – BILTMORE PLATT RD\DWG\PLAN SETS\SITE-PRELIMINARY\18003065SP-13-TREE.DWG 2/25/2020 3:48 PM CHRIS ROTHHAAR

PRELIMINARY - NOT FOR CONSTRUCTION



Landscape Summary - Sheet L-1

Site Landscaping - Entire Site	
Net Site Area	271.74 Acres
Landscape Area Required	54.3 Acres (271.74 x 20%)
Landscape Area Provided	190.4 Acres (70%)
Street Trees	
Street Frontage Length	8,752'
Trees Required	175 Trees (8,752 / 50')
Trees Provided	175 Trees
Woodland Replacement	
Regulated Tree DBH Removed	1,243"
Required Replacement	1,740" (1,243 x 140%)
Heritage Tree DBH Removed	71"
Required Replacement	149" (71 x 150% = 107") (107 x 140% = 149")
Total Replacement Required	1,889" (1,740" + 149") 630 Trees (1,889" / 3")
Replacement Provided	630 Trees

Note:
At Least 50% of Trees and Shrubs Shall be Native.

ALLEN DESIGN
LAND PLANNING / LANDSCAPE ARCHITECTURE
557 CARPENTER • NORTHVILLE, MI 48167
248.467.4668 • Fax 248.349.0559
Email: jca@wideopenwest.com

HERITAGE PRESERVE

Seal:

STATE OF MICHIGAN
JAMES C. ALLEN
Landscape Architect
REGISTERED LANDSCAPE ARCHITECT

Title:
Landscape Plan

Project:
Heritage Preserve
Pittsfield Township, Michigan

Prepared for:
Bemis Road SOBI, L.L.C.
1943 Henrietta Street
Birmingham, MI 48009

Revision:	Issued:
Submission	October 3, 2019
Submission	December 11, 2019
Revised	February 25, 2020

Job Number:
18-001

Drawn By:	Checked By:
jca/emj	jca

0' 25' 50' 100'
NORTH
1"=100'

Know what's below. Call before you dig.

Not for Construction

Sheet No.
L-1

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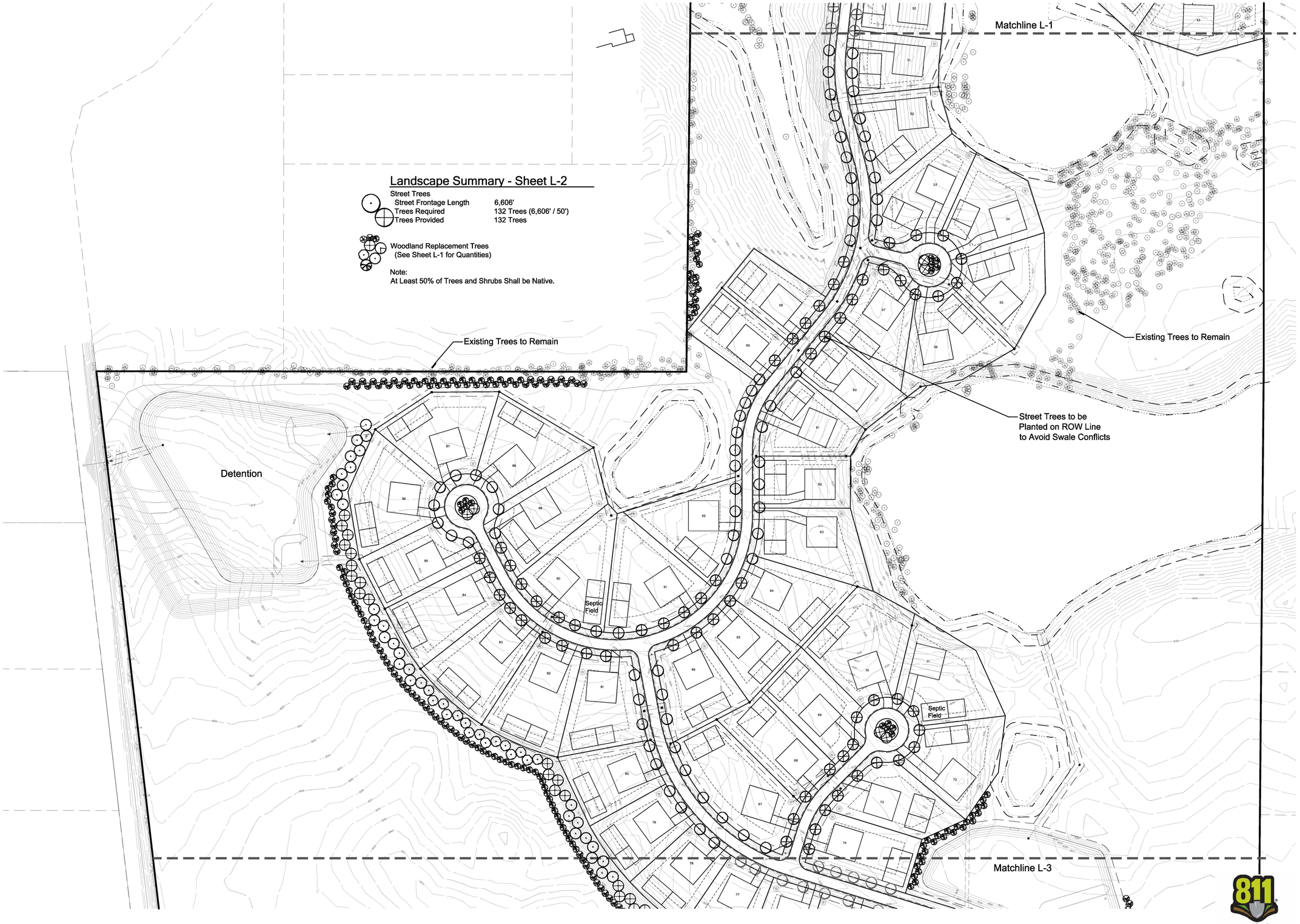

Landscape Summary - Sheet L-2

Street Trees

Street Frontage Length	6,606'
Trees Required	132 Trees (6,606' / 50')
Trees Provided	132 Trees

Woodland Replacement Trees
(See Sheet L-1 for Quantities)

Note:
At Least 50% of Trees and Shrubs Shall be Native.

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557 CARPENTER • NORTHVILLE, MI 48167
248.467.4668 • Fax 248.349.0559
Email: jca@wideopenwest.com

HERITAGE PRESERVE

Seal:

STATE OF MICHIGAN
JAMES C. ALLEN
Landscape Architect
REGISTERED LANDSCAPE ARCHITECT

Title:

Landscape Plan

Project:

Heritage Preserve
Pittsfield Township, Michigan

Prepared for:

Bemis Road SOBI, L.L.C.
1943 Henrietta Street
Birmingham, MI 48009

Revision:	Issued:
Submission	September 13, 2019
Submission	December 11, 2019
Revised	February 25, 2020

Job Number:
18-001

Drawn By:	Checked By:
jca/emj	jca

0' 25' 50' 100'

NORTH
1"=100'

Know what's below. Call before you dig.

Not for Construction

Sheet No.

L-2

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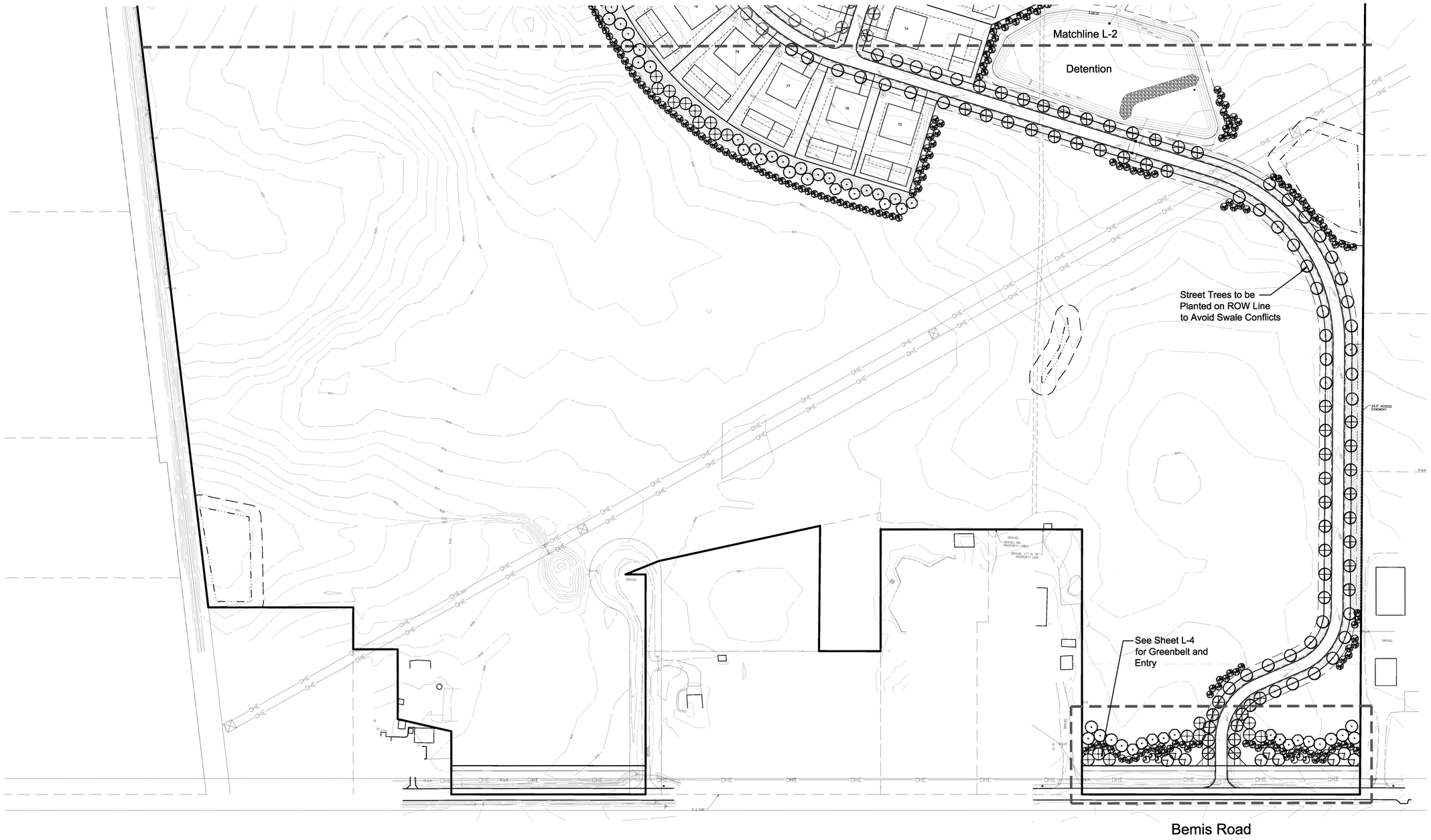

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HERITAGE PRESERVE

Seal:

STATE OF MICHIGAN JAMES C. ALLEN Landscape Architect No. 1406 REGISTERED LANDSCAPE ARCHITECT

Title:

Landscape Plan

Project:

Heritage Preserve
Pittsfield Township, Michigan

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Drawn By:	Checked By:
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0' 25' 50' 100'

NORTH
1"=100'

Sheet No.

L-3

Landscape Summary - Sheet L-3

Street Trees

Street Frontage Length	4,688'
Trees Required	94 Trees (4,688' / 50')
Trees Provided	94 Trees

Woodland Replacement Trees
(See Sheet L-1 for Quantities)

Note:
At Least 50% of Trees and Shrubs Shall be Native.

811 Know what's below. Call before you dig.

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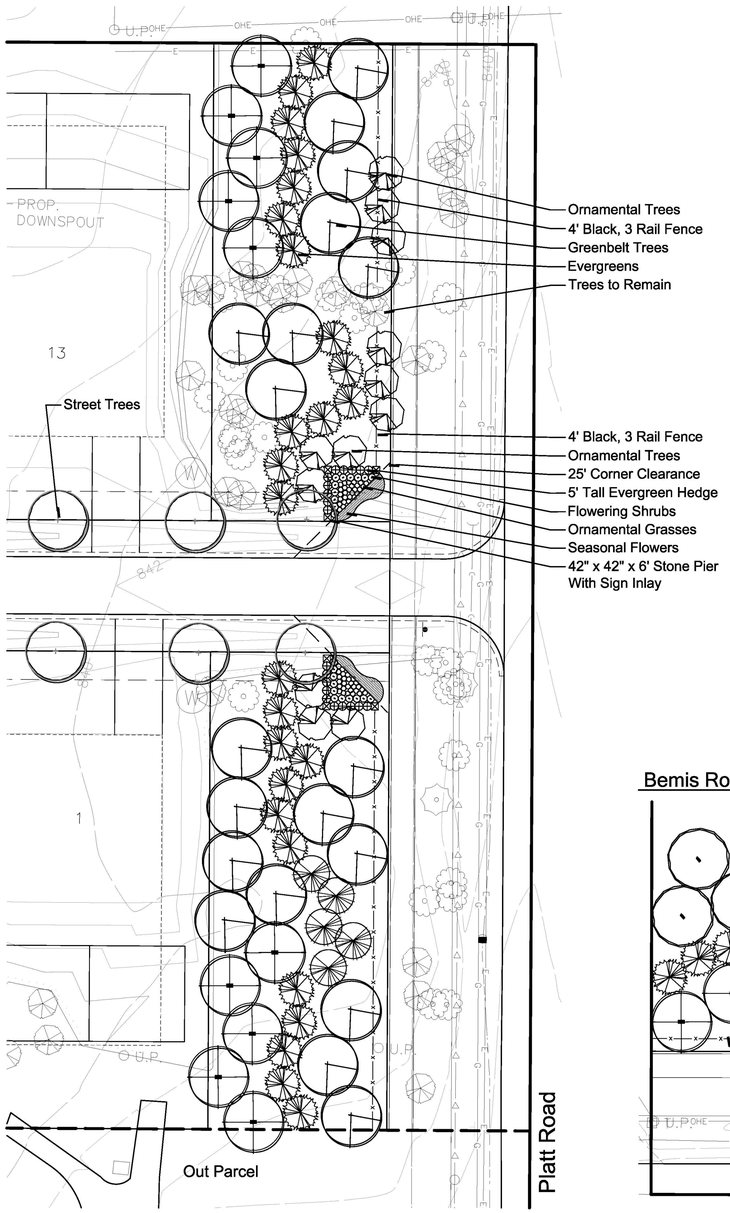
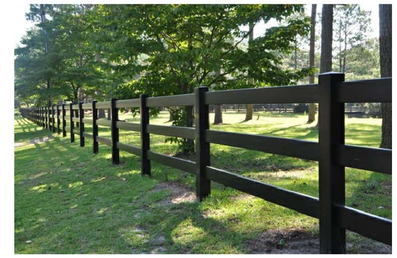
Platt Road Greenbelt



Three Rail Black Fence



Stone Pier

Landscape Summary - Sheet L-4

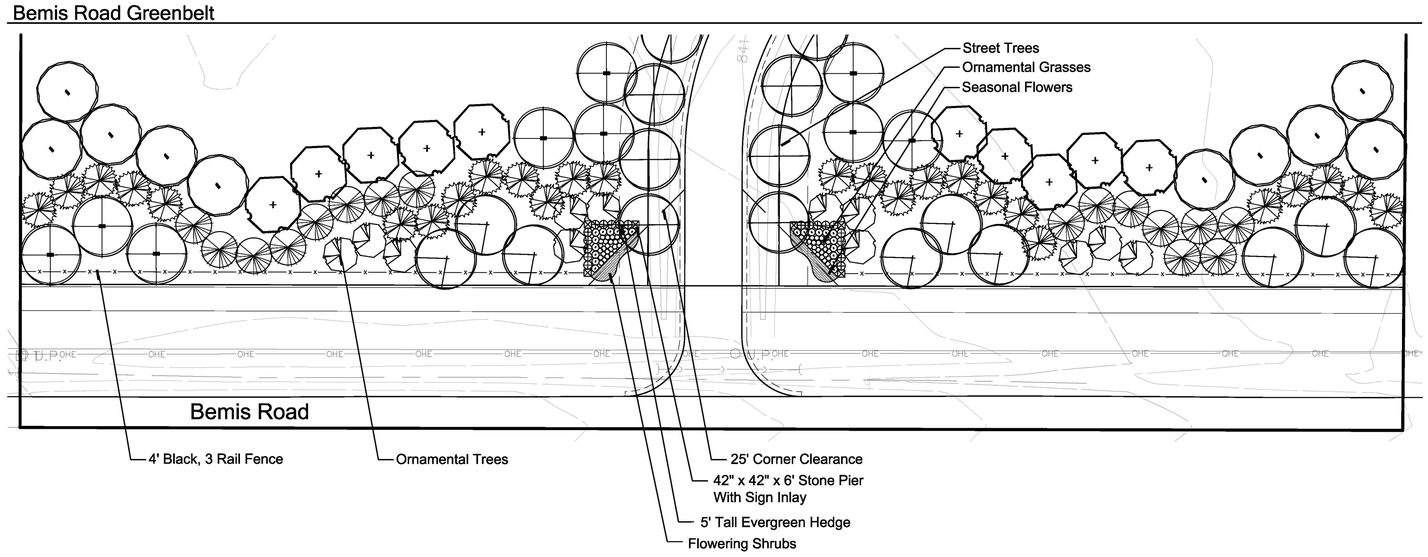
Greenbelt

Street Frontage	1,035 l.f.
Trees Required	35 Trees (1,035 / 30')
Trees Provided	35 Trees (7 Existing)

Woodland Replacement Trees
(See Sheet L-1 for Quantities)

Note:
At Least 50% of Trees and Shrubs Shall be Native.

Bemis Road Greenbelt



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Submission	October 3, 2019
Submission	December 11, 2019
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Job Number:
18-001

Drawn By:	Checked By:
jca/emj	jca

0' 15' 30'
NORTH
1=30'

Know what's below. Call before you dig.

Not for Construction

Sheet No.
L-4

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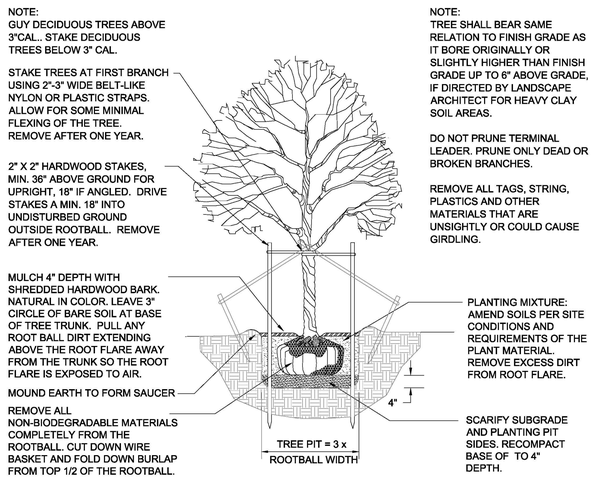
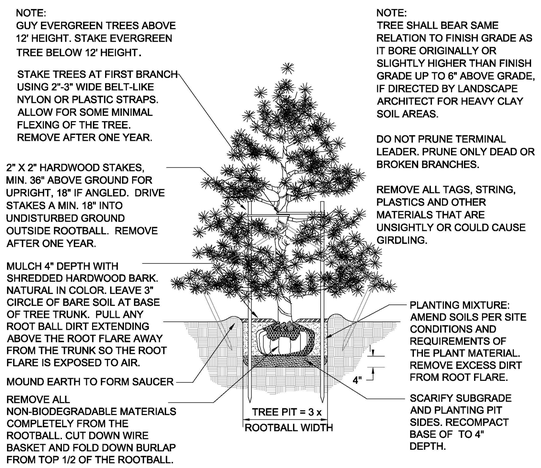


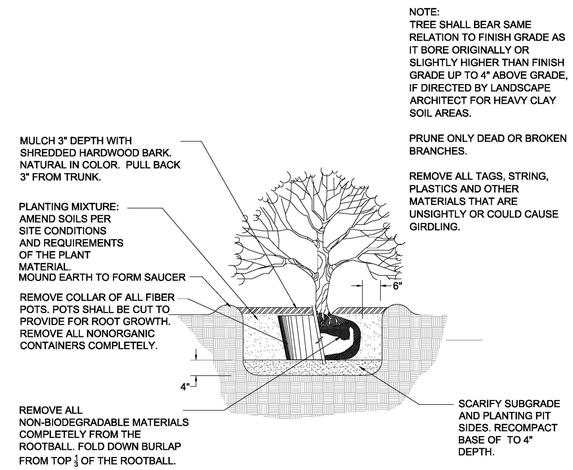
DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE



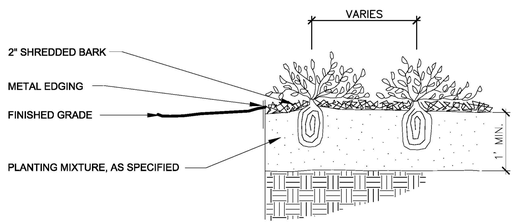
EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE



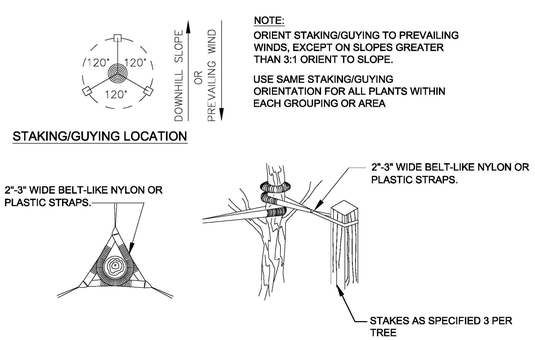
SHRUB PLANTING DETAIL

NOT TO SCALE



PERENNIAL PLANTING DETAIL

Not to scale



TREE STAKING DETAIL

Not to scale

LANDSCAPE NOTES

1. All plants shall be north Midwest American region grown, No. 1 grade plant materials, and shall be true to name, free from physical damage and wind burn.
2. Plants shall be full, well-branched, and in healthy vigorous growing condition.
3. Plants shall be watered before and after planting is complete.
4. All trees must be staked, fertilized and mulched and shall be guaranteed to exhibit a normal growth cycle for at least two (2) full years following City approval.
5. All material shall conform to the guidelines established in the most recent edition of the American Standard for Nursery Stock.
6. Provide clean backfill soil, using material stockpiled on site. Soil shall be screened and free of any debris, foreign material, and stone.
7. "Agriform" tabs or similar slow-release fertilizer shall be added to the planting pits before being backfilled.
8. Amended planting mix shall consist of 1/3 screened topsoil, 1/3 sand and 1/3 compost, mixed well and spread to the depth as indicated in planting details.
9. All plantings shall be mulched per planting details located on this sheet.
10. The Landscape Contractor shall be responsible for all work shown on the landscape drawings and specifications.
11. No substitutions or changes of location, or plant types shall be made without the approval of the Landscape Architect.
12. The Landscape Architect shall be notified in writing of any discrepancies between the plans and field conditions prior to installation.
13. The Landscape Contractor shall be responsible for maintaining all plant material in a vertical condition throughout the guaranteed period.
14. The Landscape Architect shall have the right, at any stage of the installation, to reject any work or material that does not meet the requirements of the plans and specifications, if requested by owner.
15. Contractor shall be responsible for checking plant quantities to ensure quantities on drawings and plant list are the same. In the event of a discrepancy, the quantities on the plans shall prevail.
16. The Landscape Contractor shall seed and mulch or sod (as indicated on plans) all areas disturbed during construction, throughout the contract limits.
17. A pre-emergent weed control agent, "Preen" or equal, shall be applied uniformly on top of all mulching in all planting beds.
18. Sod shall be two year old "Baron/Cheriadelphi" Kentucky Blue Grass grown in a sod nursery on loam soil.

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L-5