



9 1/4" x 11" 200' SCALE
GRAPHIC SCALE
DATE 11/20/20



TOPOGRAPHIC SURVEY SOURCE: MARSHFIELD SURVEYING, INC. 217 W. 400 ST. WOODSTOCK, ILLINOIS 60098
 DATED SEPTEMBER 22, 2013

AERIAL PHOTOGRAPHY SOURCE: GOOGLE MAPS, 2023.

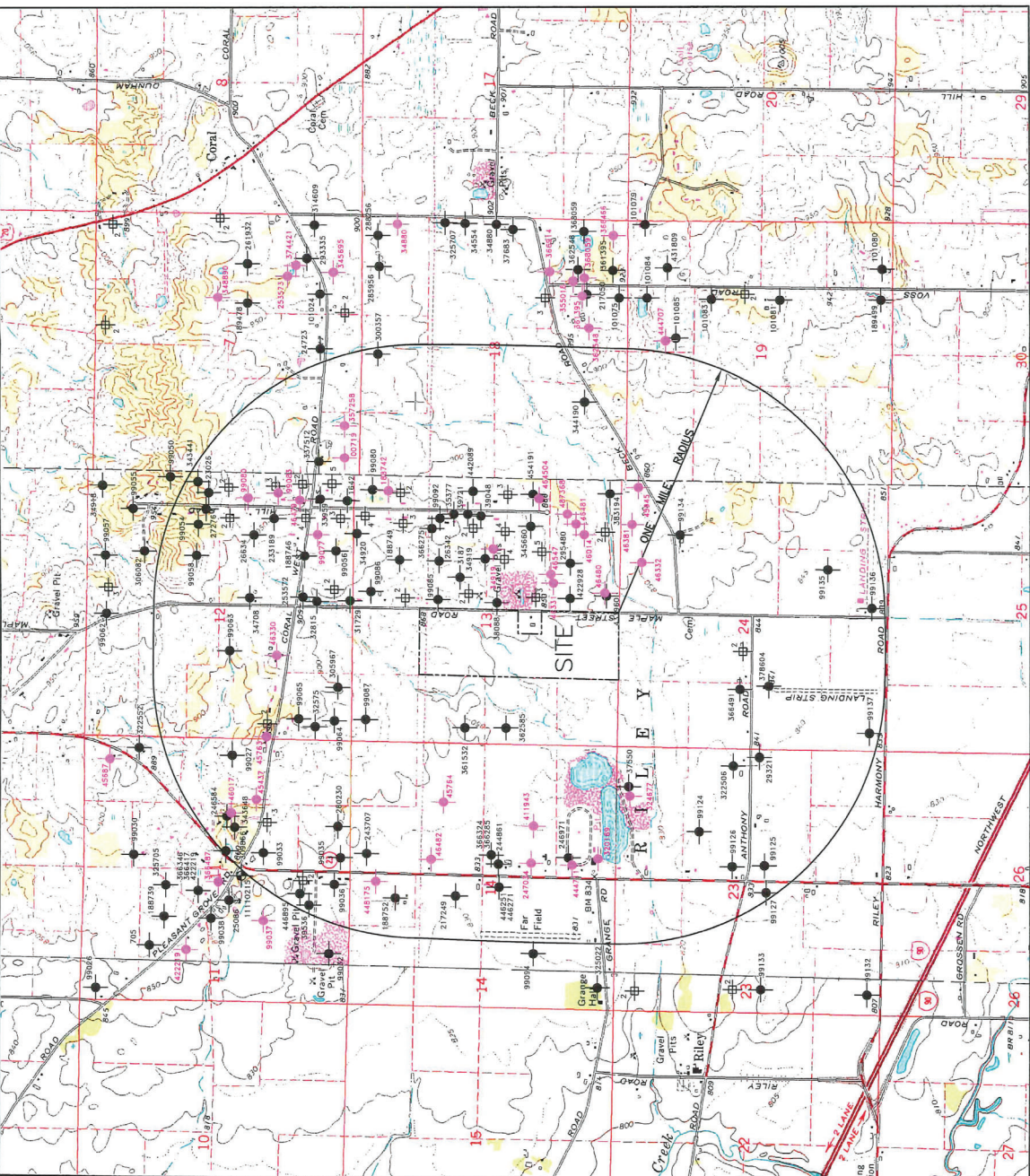
LEGEND
 --- TOPOGRAPHIC CONTOUR (INTERVAL 1')

ADJOINING PROPERTY AND ZONING MAP		SCALE: 1"=200'	DATE: MARCH 2024
PROPOSED MARENGO QUARRY MAPLE VALLEY MATERIALS, L.L.C. MARENGO, ILLINOIS		DESIGNED BY: JCS	PROJECT No.: 22551043
		DESIGNED BY: JCS	EXHIBIT 1 1 OF 8 EXHIBITS
		CHECKED BY: JCS	
		APPROVED BY: JCS	



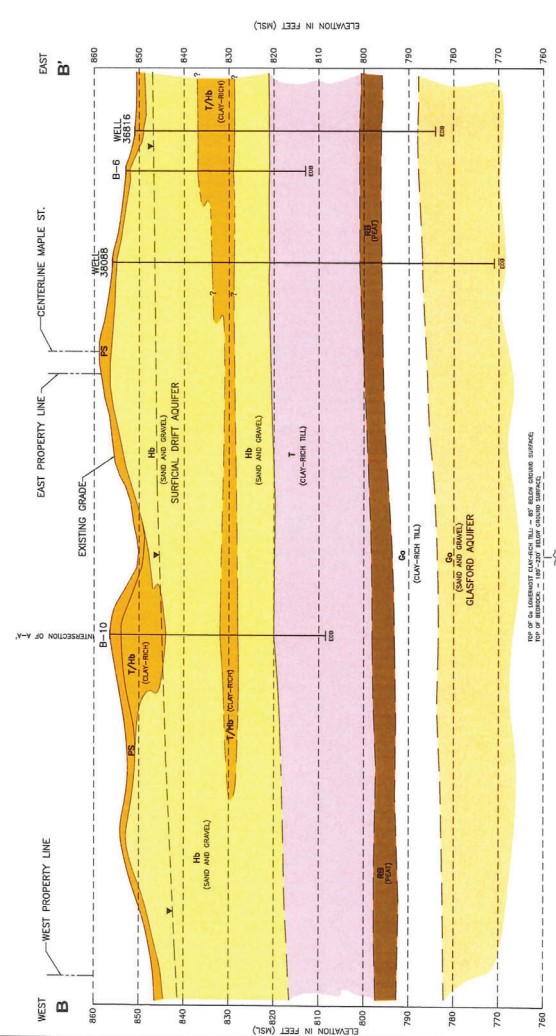
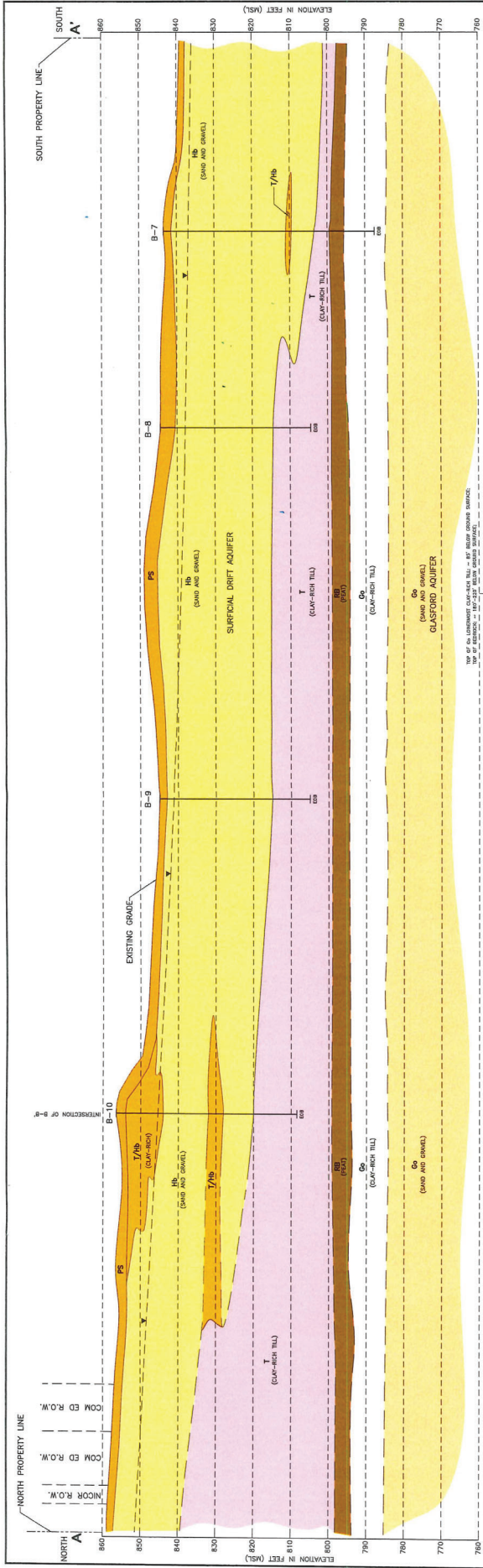
LEGEND

- 22211 PRIVATE WATER WELL
- 348999 PRIVATE WATER WELL IN THE ISMS
- 18 WATER WELL OS (NOV 2023)
- 9 MULTIPLE WELLS

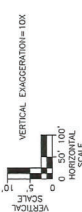


WELLS ON FILE FOR 2013 CUP RENEWAL

U.S.G.S. NUMBER	L.S.G.S. NUMBER	L.S.G.S. NUMBER	L.S.G.S. NUMBER	ADDITIONAL WELLS ON FILE WITH THE ISMS AS OF NOVEMBER 2023
13	66069	55311	52130	7 258373
13	66068	52544	52544	7 148681
13	66072	29296	29296	7 756253
13	66072	24869	24869	7 382910
13	66074	23318	23318	7 875258
13	66075	23203	23203	7 343154
13	66075	24260	24260	7 374221
13	66074	25243	25243	7 148687
13	66076	22061	22061	7 196987
13	66078	11114	11114	7 181005
13	66079	22058	22058	7 422213
13	66081	22508	22508	7 431995
13	66082	22509	22509	7 445470
13	66083	22510	22510	7 451811
13	66084	22511	22511	7 464931
13	66085	22512	22512	7 468461
13	66086	22513	22513	7 471991
13	66087	22514	22514	7 475521
13	66088	22515	22515	7 479051
13	66089	22516	22516	7 482581
13	66090	22517	22517	7 486111
13	66091	22518	22518	7 489641
13	66092	22519	22519	7 493171
13	66093	22520	22520	7 496701
13	66094	22521	22521	7 500231
13	66095	22522	22522	7 503761
13	66096	22523	22523	7 507291
13	66097	22524	22524	7 510821
13	66098	22525	22525	7 514351
13	66099	22526	22526	7 517881
13	66100	22527	22527	7 521411
13	66101	22528	22528	7 524941
13	66102	22529	22529	7 528471
13	66103	22530	22530	7 532001
13	66104	22531	22531	7 535531
13	66105	22532	22532	7 539061
13	66106	22533	22533	7 542591
13	66107	22534	22534	7 546121
13	66108	22535	22535	7 549651
13	66109	22536	22536	7 553181
13	66110	22537	22537	7 556711
13	66111	22538	22538	7 560241
13	66112	22539	22539	7 563771
13	66113	22540	22540	7 567301
13	66114	22541	22541	7 570831
13	66115	22542	22542	7 574361
13	66116	22543	22543	7 577891
13	66117	22544	22544	7 581421
13	66118	22545	22545	7 584951
13	66119	22546	22546	7 588481
13	66120	22547	22547	7 592011
13	66121	22548	22548	7 595541
13	66122	22549	22549	7 599071
13	66123	22550	22550	7 602601
13	66124	22551	22551	7 606131
13	66125	22552	22552	7 609661
13	66126	22553	22553	7 613191
13	66127	22554	22554	7 616721
13	66128	22555	22555	7 620251
13	66129	22556	22556	7 623781
13	66130	22557	22557	7 627311
13	66131	22558	22558	7 630841
13	66132	22559	22559	7 634371
13	66133	22560	22560	7 637901
13	66134	22561	22561	7 641431
13	66135	22562	22562	7 644961
13	66136	22563	22563	7 648491
13	66137	22564	22564	7 652021
13	66138	22565	22565	7 655551
13	66139	22566	22566	7 659081
13	66140	22567	22567	7 662611
13	66141	22568	22568	7 666141
13	66142	22569	22569	7 669671
13	66143	22570	22570	7 673201
13	66144	22571	22571	7 676731
13	66145	22572	22572	7 680261
13	66146	22573	22573	7 683791
13	66147	22574	22574	7 687321
13	66148	22575	22575	7 690851
13	66149	22576	22576	7 694381
13	66150	22577	22577	7 697911
13	66151	22578	22578	7 701441
13	66152	22579	22579	7 704971
13	66153	22580	22580	7 708501
13	66154	22581	22581	7 712031
13	66155	22582	22582	7 715561
13	66156	22583	22583	7 719091
13	66157	22584	22584	7 722621
13	66158	22585	22585	7 726151
13	66159	22586	22586	7 729681
13	66160	22587	22587	7 733211
13	66161	22588	22588	7 736741
13	66162	22589	22589	7 740271
13	66163	22590	22590	7 743801
13	66164	22591	22591	7 747331
13	66165	22592	22592	7 750861
13	66166	22593	22593	7 754391
13	66167	22594	22594	7 757921
13	66168	22595	22595	7 761451
13	66169	22596	22596	7 764981
13	66170	22597	22597	7 768511
13	66171	22598	22598	7 772041
13	66172	22599	22599	7 775571
13	66173	22600	22600	7 779101
13	66174	22601	22601	7 782631
13	66175	22602	22602	7 786161
13	66176	22603	22603	7 789691
13	66177	22604	22604	7 793221
13	66178	22605	22605	7 796751
13	66179	22606	22606	7 800281
13	66180	22607	22607	7 803811
13	66181	22608	22608	7 807341
13	66182	22609	22609	7 810871
13	66183	22610	22610	7 814401
13	66184	22611	22611	7 817931
13	66185	22612	22612	7 821461
13	66186	22613	22613	7 824991
13	66187	22614	22614	7 828521
13	66188	22615	22615	7 832051
13	66189	22616	22616	7 835581
13	66190	22617	22617	7 839111
13	66191	22618	22618	7 842641
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13	66207	22634	22634	7 899121
13	66208	22635	22635	7 902651
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13	66210	22637	22637	7 909711
13	66211	22638	22638	7 913241
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13	66218	22645	22645	7 937951
13	66219	22646	22646	7 941481
13	66220	22647	22647	7 945011
13	66221	22648	22648	7 948541
13	66222	22649	22649	7 952071
13	66223	22650	22650	7 955601
13	66224	22651	22651	7 959131
13	66225	22652	22652	7 962661
13	66226	22653	22653	7 966191
13	66227	22654	22654	7 969721
13	66228	22655	22655	7 973251
13	66229	22656	22656	7 976781
13	66230	22657	22657	7 980311
13	66231	22658	22658	7 983841
13	66232	22659	22659	7 987371
13	66233	22660	22660	7 990901
13	66234	22661	22661	7 994431
13	66235	22662	22662	7 997961
13	66236	22663	22663	8 001491
13	66237	22664	22664	8 005021
13	66238	22665	22665	8 008551
13	66239	22666	22666	8 012081
13	66240	22667	22667	8 015611
13	66241	22668	22668	8 019141
13	66242	22669	22669	8 022671
13	66243	22670	22670	8 026201
13	66244	22671	22671	8 029731
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13	66250	22677	22677	8 050911
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13	66252	22679	22679	8 057971
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13	66254	22681	22681	8 065031
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13	66261	22688	22688	8 089741
13	66262	22689	22689	8 093271
13	66263	22690	22690	8 096801
13	66264	22691	22691	8 100331
13	66265	22692	22692	8 103861
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13	66269	22696	22696	8 117981
13	66270	22697	22697	8 121511
13	66271	22698	22698	8 125041
13	66272	22699	22699	8 128571
13	66273	22700	22700	8 132101
13	66274	22701	22701	8 135631
13	66275	22702	22702	8 139161
13	66276	22703	22703	8 142691
13	66277	22704	22704	8 146221
13	66278	22705	22705	8 149751
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13	66280	22707	22707	8 156811
13	66281	22708	22708	8 160341
13	66282	22709	22709	8 163871
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13	66284	22711	22711	8 170931
13	66285	22712	22712	8 174461
13	66286	22713	22713	8 177991



- LEGEND**
- WISCONSIN EPISODE**
 - MASON GROUP**
 - PS PEORIA SILT FORMATION: Silt and Clay-rich Glacial Loams with Strong Modern Soil Development
 - WERRON GROUP**
 - Hs HENRY FORMATION: COBBLE TONGUE Shale, Siltstone, and Clay-rich Siltstone
 - T/Hs EITHER Lenses of Silt and Clay; Glacial Outwash Deposits
 - T TISKULWA FORMATION: Clay-rich Deposition, Glacial Till Deposits
 - WISCONSIN, SANGAMON, AND ILLINOIS EPISODES**
 - Co MORTON TONGUE-ROBERT MEMBER-BERRY CLAY MEMBER COMPLEX: Organic-rich Silt, Clay and Peat, Former Pre-Wisconsinan to Wisconsinan Soil/Wetlands Horizon (Undifferentiated)
 - ILLINOIS EPISODE**
 - GLASFORD FORMATION: GLASFORD MEMBER: Interbedded Clay-rich Deposition and Sand and Gravel-rich Glacial Till and Ice Marginal Fluid Deposits



REFER TO EXHIBIT 3 FOR THE LOCATIONS OF EACH CROSS SECTION.

GEOLOGIC CROSS SECTIONS A-A' AND B-B'		SCALE: 1"=100'	DATE: MARCH 2024
PROPOSED MARENGO QUARRY MAPLE VALLEY MATERIALS, L.L.C. MARENGO, ILLINOIS		PROJECT NO.: 22353.043	
DESIGN BY: JCS	CHECKED BY: JCS	DATE: MARCH 2024	
DRAWN BY: EJB	CHECKED BY: JCS		
PROJECT NO.: 22353.043	EXHIBIT 5		
	5 OF 8 EXHIBITS		

65 East Monroe
 Suite 300
 Chicago, IL 60602
 TEL: (773) 399-0999
 FAX: (773) 399-0998
 WWW.PATRICKINC.COM

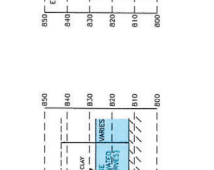
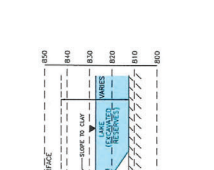
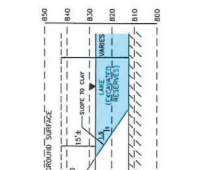
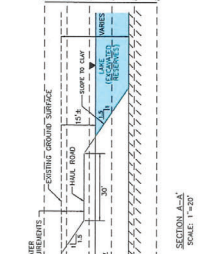
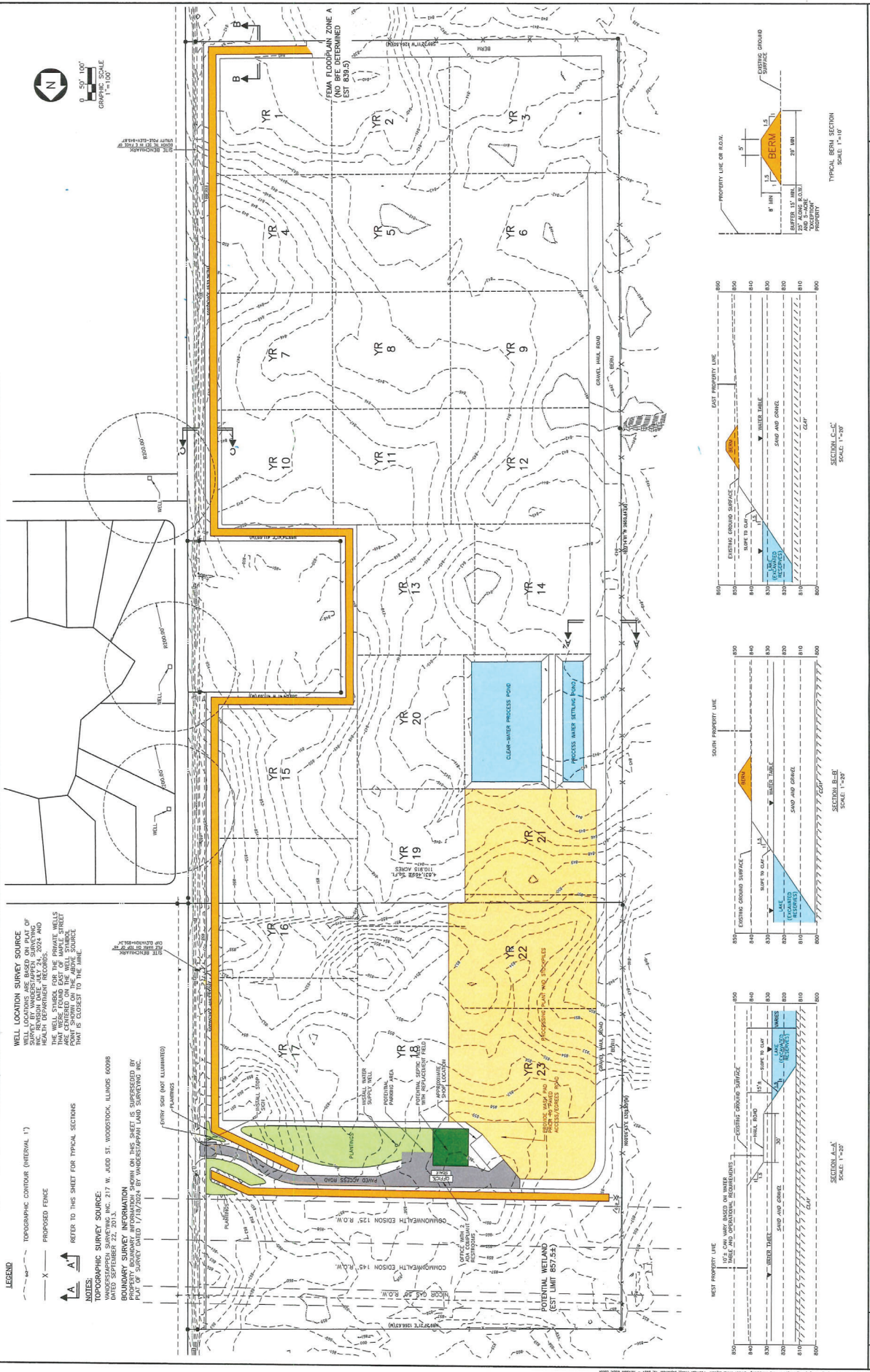
PATRICK
 a niff company

ILLINOIS PROFESSIONAL ENGINEERING REGISTRATION BOARD
 LICENSE NO. 1960000014



WELL LOCATION SURVEY SOURCE
WELL LOCATIONS ARE BASED ON SURVEY BY VANDESTAPPAN SURVEYING HEALTH DEPARTMENT RECORDS. THE WELLS FOUND FOR THE PHASE 1 WELLS ARE CENTERED ON THE WELL SYMBOL THAT IS CLOSEST TO THE WIRE.

LEGEND
 TOPOGRAPHIC CONTOUR (INTERNAL 1)
 PROPOSED FENCE
 REFER TO THIS SHEET FOR TYPICAL SECTIONS
 NOTES:
 1. SURVEYING SURVEY SOURCE: VANDESTAPPAN SURVEYING INC. 217 W. 400 ST. WOODSTOCK, ILLINOIS 60086 DATED SEPTEMBER 22, 2015.
 2. BOUNDARY SURVEY INFORMATION SHOWN ON THIS SHEET IS SUPPLEMENTED BY PLAT OF SURVEY DATED 1/19/2024 BY VANDESTAPPAN LAND SURVEYING INC.



MINE PHASING PLAN PROPOSED MARENGO QUARRY MAPLE VALLEY MATERIALS, L.L.C. MARENGO, ILLINOIS		SCALE: 1"=100' DATE: MARCH 2024 PROJECT No.: 22353.043
DESIGNED BY: JCS DRAWN BY: EJB CHECKED BY: JCS APPROVED BY: JCS	EXHIBIT 7 7 OF 8 SHEETS	

