

December 2, 2015

Mr. Terry Anderson
6910 Fremont Street
Duluth, MN 55807

**RE: Contaminant Evaluation for Building Expansion Options, Park Point Marina Inn & Suites, 1003 Minnesota Avenue, Duluth, MN
ICECOR Project #101012029**

Dear Mr. Anderson:

From our phone conversation today you are evaluating two (2) options for making an addition to the existing site building. One option would be extending to the north off the pool end of the building, and the second option would be extending to the south off the southeastern end of the building. You asked that I evaluate both options using the investigation data that had been collected from the Investigation that ICECOR performed at the site.

I have attached the following maps and summary tables from the site investigation:

Sheet 6 Soil and Groundwater Contamination Map
Table 1 Soil Analytical Results Summary
Table 2 Groundwater Analytical Results Summary
Table 6 Soil Boring Logs

INVESTIGATION FINDINGS

The results of the site investigation determined that the soil contamination encountered at the site was introduced with fill materials in the distant past when the area had been filled out into former open water area. Numerous loads of fill materials (sand, gravel, rocks, clay, concrete, coal, wood, foundry slag, and other debris sources) had been placed over time to fill the area. Some loads contained contamination and some loads didn't. Groundwater was encountered at depths ranging from 4-6 feet below the ground surface (BGS) across the site. Groundwater was contaminated from contact with and from precipitation passing through the areas of soil contamination at the site.

Sheet 6 presents the locations of the sampling points at the site. The ET soil samples were collected by a former consulting company from the ground surface and from the sidewalls of the building excavation areas. The test pits were advanced by ICECOR to complete the delineation of the extent of soil and groundwater contamination at the site. The pits were placed on a 75-85 foot grid outside of the excavated building footprint and within the site boundaries, as per State guidance for soil sample spacing. Monitoring wells were placed in some of the pits and sampled during two separate events. Tables 1 and 2 present a summary of the analytical results versus State criteria. Table 6 presents the soils identification/composition with depth at each of the test pit locations.

OPTION ASSESSMENT

Option #1 is the area north of the pool area in the existing building. Test pits in this area are Pit's 2, 3, 12, and 13. Option #2 is the area south of the southeastern corner of the existing building. Test pits in this area are Pit's 7, 8, 9, and 10.

As stated above, the areas of contamination encountered during the site investigation were where fill materials had been dumped in the past to raise the site surface to present grade.

Option #1 is located in a fill material area. It has Diesel Range Organic (DRO) concentrations ranging from 26.9 to 254 ppm. Soils at the locations of Pit 12 and 13 exceed regulatory criteria for concentrations of polyaromatic hydrocarbons (PAH). The groundwater beneath this area is contaminated above regulatory criteria. Temporary monitoring well TMW-2 had concentrations of arsenic and PAH's which exceed regulatory criteria.

Option #2 is located mostly in native sand soils, with some clay soils nearer the bay which could be native or could be fill materials in origin. It has DRO concentrations ranging from 2.7 to 87.6 ppm, and soils in this area are not contaminated above regulatory criteria. Groundwater beneath this area is not contaminated above regulatory criteria. Temporary monitoring well TMW-4 had some of the lowest detected compound levels at the site.

Sampling guidance for the site investigation placed the test pits at grid intervals of 75-85 feet across the site (excluding the areas beneath the building that had already been excavated). The source of the soil and groundwater contamination at the site was determined to be in the fill materials that were placed at the site in the past. Considering the large number of truck loads of fill it would have taken to bring the site to present grade and the reasonable expectation that these loads came from many different source areas and were dumped in many different events; it is reasonable to expect that there are multiple separate smaller areas of soil contamination at the site. Some of these areas could be focused into smaller areas between the test pit locations. The test pit spacing was determined as being "reasonable" by the State in effort to characterize the site, knowing that some areas could be missed even if the grid spacing was reduced to a grid spacing of 35-40 feet.

Option #1 is located in fill materials and has adjacent test pits with soil and groundwater contamination that exceed regulatory levels. There is the potential to encounter additional areas of soil contamination which exceed regulatory criteria if the building addition is placed in the area of Option #1. The expansion in this area will encounter contaminated soils which will require additional testing, permitting, and off-site disposal at a licensed treatment facility. These additional costs are very significant and represent a "Practical Difficulty" with the development of this area.

The area of Option #2 didn't encounter soil or groundwater contamination that exceeded regulatory criteria, and is located in an area whose soils are native sands and not fill materials. As the fill materials were determined to be the source of the site contamination, it is unlikely that soil contamination exceeding regulatory criteria will be encountered in the Option #2 area. The expansion in this area doesn't have the significantly increases project costs associated with contamination and therefore doesn't represent a "Practical Difficulty" with the development of this area.

SUMMARY

Based on the review of the two (2) options for expansion of the existing building, it is my recommendation that Option #2 (expanding to the south of the southeast end of the existing building) is the best location for the project to occur. Option #1 has contamination issues which will significantly increase the project costs and represent a "Practical Difficulty" in locating the project in that area.

If you have questions or require additional information, please contact me at your convenience.

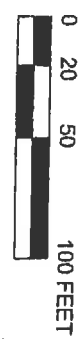
Sincerely,

IC ENVIRONMENTAL CORPORATION

Michael L. Kohn

MICHAEL L. KOHN, P.E.
Engineer/Hydrogeologist

ALTER



- PIT LOCATION FOR SOIL SAMPLES
- TEMPORARY MONITORING WELL
- ET SOIL BORING (DEPTH)
- SOIL CONTAMINATION ABOVE INDUSTRIAL SRVs WITHIN PROPERTY BOUNDARIES
- GROUNDWATER CONTAMINATION ABOVE MDH CRITERIA WITHIN PROPERTY BOUNDARIES

Existing Building

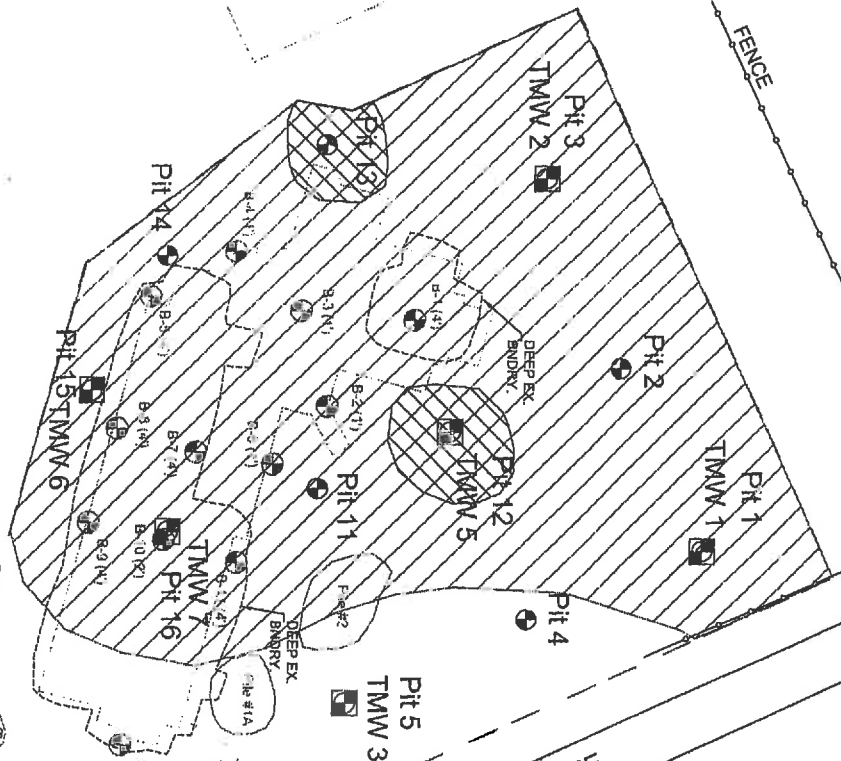
FENCE

WATER

WAY

MINNESOTA AVENUE

11TH ST S.



6 of	PARK POINT MARINA INN AND SUITES DULUTH, MINNESOTA ICECOR PROJECT #101012028	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">DATE</th> <th style="width: 85%;">REVISIONS DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1/1/13</td> <td>ORIGINAL SUBMISSION</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	DATE	REVISIONS DESCRIPTION	1/1/13	ORIGINAL SUBMISSION							I hereby certify that this plan, specification or report was prepared by me or under my supervision and that I am a duly licensed PROFESSIONAL ENGINEER under the laws of the State of WISCONSIN. Printed name: _____ Date: _____ Lic. No. _____	 P.O. BOX 1105 SUPERIOR, WISCONSIN 54880 (715) 385-0865
	DATE	REVISIONS DESCRIPTION												
	1/1/13	ORIGINAL SUBMISSION												
SOIL AND GROUNDWATER CONTAMINATION MAP		BAS: MAP FROM BOP ARCHITECTS 7/16/2012												

Table 1: Soil Analytical Results Summary cont ...

Table 1: Soil Analytical Results Summary cont ...												
Tier 1 (SRV) Residential (mg/kg)		Tier 1 (SLV) Residential (mg/kg)		Tier 2 (SRV) Industrial (mg/kg)		Tier 2 (SLV) Industrial (mg/kg)						
Diesel Range Organics	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
RCRA 8 Metals												
Arsenic	9	15.1	20	14.6	2	2.5	3.3	1.7	2	3.7	3.5	3.1
Barium	1100	842	18000	842	22.8	28.5	21.7	16.7	76.3	10.5	161	219
Cadmium	25	4.4	200	4.4	0.1	0.091	<0.028	<0.029	0.086	<0.033	0.3	<0.030
Chromium III/VI	44000/87	100000/18	100000/850	100000/18	7.5	7.9	10.9	3.3	6.4	1.8	23.3	22.1
Lead	300	525	700	525	53.1	125	53.2	25.4	96.8	14.5	130	250
Selenium	160	1.5	1300	1.32	<0.5	<0.47	<0.44	<0.46	<0.46	<0.44	<0.51	<0.49
Silver	160	3.9	1300	3.93	<0.23	<0.22	<0.20	<0.21	<0.21	<0.20	1.3	<0.22
Mercury (inorganic)	0.5	1.8	1.5	1.64	0.058	0.13	0.46	0.28	0.11	0.049	0.25	0.23
PAH'S												
Acenaphthene	1200	50	5260	50	0.0226	0.232	0.045	<0.092	<0.0179	<0.009	<0.181	0.342
Acenaphthylene					0.0437	0.117	0.072	<0.092	<0.0179	<0.009	<0.181	0.342
Anthracene	7880	942	45400	942	0.094	0.151	0.172	0.067	0.0648	0.004	0.547	0.826
Benzo(a)anthracene					0.181	0.277	0.341	0.0211	0.343	0.0188	1.26	1.33
Benzo(a)pyrene				10.2	0.209	0.267	0.4	0.0216	0.341	0.0177	1.25	1.2
Benzo(b)fluoranthene					0.17	0.209	0.298	0.0164	0.294	0.0156	1.13	0.868
Benzo(g,h,i)perylene					0.125	0.106	0.213	0.0127	0.153	<0.009	0.702	0.0596
Benzo(k)fluoranthene					0.173	0.236	0.323	0.0187	0.348	0.0174	1.08	1.15
Chrysene					0.209	0.313	0.415	0.0229	0.347	0.0192	1.4	1.43
Dibenz(a,h)anthracene					0.0415	0.0434	0.072	<0.0092	0.0674	<0.009	0.228	0.236
Fluoranthene	1080	295	6800	295	0.401	0.553	0.823	0.0401	0.636	0.0345	3.16	3.26
Fluorene	850	47	4120	47	0.0233	0.0375	0.073	<0.0092	<0.0179	<0.009	<0.181	0.387
Indene(1,2,3-c)pyrene					0.108	0.106	0.159	0.0111	0.157	<0.009	0.614	0.57
1-Methylnaphthalene					0.0398	0.0309	0.0546	<0.0084	0.0357	0.0092	<0.165	<0.181
2-Methylnaphthalene	100	369			0.0338	0.0437	0.0692	0.003	0.0449	0.0113	0.082	0.16
Naphthalene	10	7.5	28		0.0462	0.0362	0.0738	<0.0035	0.0336	0.0087	0.0845	0.249
Phenanthrene					0.259	0.329	0.554	0.0186	0.146	0.0148	1.75	3.07
Pyrene	850	272	5800	272	0.351	0.56	0.733	0.0408	0.52	0.0275	2.49	2.63
Benzo(a)pyrene equiv (BaP)	2	10.2	3	10.2	0.2975	0.3772	0.5566	0.0311	0.4964	0.0260	1.8001	1.7483
PCBs (Polychlorinated Biphenyls)	1.2	2.1	8	2.1	NA	NA	<0.0252	<0.0261	<0.0253	<0.0254	0.0469	0.236
VOC's												
Naphthalene	10	7.5	28	7.5	<0.025	<0.025	0.0324	<0.025	<0.025	<0.025	<0.025	<0.025
Toluene	107	6.4	305	6.4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4-Trimethylbenzene	8	25			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Xylenes (mixed)	45	45	130	45	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Bromoforn	NR	0.14	NR	0.14	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethyl benzene	200	4.7	200	4.7	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
BOLD ITALIC = Exceeds Tier 1 Residential SRV												
BOLD = Exceeds Tier 2 Industrial SRV												
NA = Not Analyzed For												
NR = Not Regulated												

Table 1: Soil Analytical Results Summary cont ...

Table 1. Your Analytical Results Summary cont ...																
Tier 1 (SRV) Residential (mg/kg)		Tier 1 (SLV) Residential (mg/kg)		Tier 2 (SRV) Industrial (mg/kg)		Tier 2 (SLV) Industrial (mg/kg)										
						PIT 11 (0-2') (2-4')	PIT 11 (2-4')	PIT 12 (0-2') (2-4')	PIT 12 (2-4')	PIT 13 (0-2') (2-4')	PIT 13 (2-4')	PIT 14 (0-2') (2-4')	PIT 14 (2-4')	PIT 15 (0-2') (2-4')	PIT 15 (2-4')	PIT 16 (2-4')
Diesel Range Organics																
	NR	NR	NR	NR	NR	239	9.8	26.9	119	285	168	9.4	22.6	1850	1220	193
RCRA 8 Metals																
Arsenic	9	15.1	20	14.6	14.6	5.8	3.1	3.8	4.9	4.2	4	3.8	4.2	3.3	3.9	3
Barium	1100	842	18000	842	4.4	139	95.4	57.5	107	55.5	50.9	101	120	121	90.1	90.5
Cadmium	25	4.4	200	4.4	4.4	0.033	0.031	0.032	0.034	0.058	0.03	0.036	0.034	0.032	0.031	0.035
Chromium III/VI	44000/87	100000/48	100000/650	50000000/18	50000000/18	29.9	20.4	24.3	24	12	14	34.5	41.4	21.7	36.9	22.5
Lead	300	525	700	525	525	104	229	20.5	67.9	101	65.3	89.7	7.7	54.8	145	50.1
Selenium	160	1.5	1300	1.32	1.32	0.51	0.48	0.50	0.53	0.47	0.47	0.56	0.55	0.50	0.48	0.55
Silver	160	3.9	1300	3.93	3.93	0.23	0.33	0.23	0.24	0.22	0.21	0.25	0.23	0.22	0.22	0.25
Mercury (inorganic)	0.5	1.6	1.5	1.64	1.64	0.3	0.63	0.014	0.26	0.094	0.09	0.075	0.021	0.11	0.12	0.16
PAH's																
Acenaphthene	1200	50	5260	50	50	0.222	0.218	0.0166	0.671	2.82	1.03	0.28	0.0401	0.0371	0.143	0.0117
Acenaphthylene						0.535	0.078	0.122	0.207	0.754	0.206	0.281	0.102	0.0783	0.0784	0.01
Anthracene	7880	942	45400	942	942	0.552	0.964	0.056	1.8	6.08	2.6	1.18	0.801	0.174	0.469	0.047
Benzo(a)anthracene						0.879	1.24	0.1	2.44	6.72	2.74	1.48	0.146	0.461	0.78	0.0936
Benzo(b)pyrene					10.2	0.841	1.09	0.117	2.32	5.87	2.54	1.4	0.131	0.155	0.802	0.0818
Benzo(k)fluoranthene						0.7	1.01	0.135	2.06	4.67	2.15	1.06	0.112	0.458	0.634	0.0818
Benzo(g,h,i)perylene						0.473	0.542	0.0898	1.2	2.91	1.01	0.524	0.0876	0.275	0.497	0.0897
Benzo(f)fluoranthene						0.826	0.996	0.0699	2	4.79	2.02	1.34	0.133	0.424	0.789	0.0897
Chrysene						0.994	1.34	0.114	2.71	7.23	2.95	1.5	0.152	0.514	0.893	0.106
Dibenz(a,h)anthracene						0.163	0.218	0.0233	0.433	1.07	0.39	0.22	0.0256	0.106	0.168	0.0214
Fluoranthene	1080	285	6000	285	285	2.17	2.96	0.241	6.82	18.1	7.67	3.9	0.386	0.813	1.95	0.199
Fluorene	850	47	4120	47	47	0.24	0.365	0.0185	0.809	3.66	1.37	0.801	0.0332	0.0635	0.284	0.0195
Indeno(1,2,3-cd)pyrene						0.433	0.521	0.0581	1.08	2.57	0.962	0.549	0.0854	0.25	0.44	0.0602
1-Methylnaphthalene						0.0832	0.0917	0.0081	<0.0081	1.65	0.796	0.257	0.0148	0.121	0.0992	0.0101
2-Methylnaphthalene	100	7.5	369			0.104	0.127	0.0085	0.179	1.79	0.796	0.327	0.0113	0.163	0.114	0.0132
Naphthalene	10		28			0.167	0.198	0.0113	0.309	2.96	1.24	0.593	0.0233	0.133	0.121	0.0189
Phenanthrene						1.82	2.68	0.154	6.18	21.3	8.06	3.76	0.259	0.472	1.62	0.117
Pyrene	890	272	5900			1.68	2.21	0.191	5.16	15.2	6.92	2.99	0.286	0.724	1.54	0.169
Benzo(e)pyrene equiv (BaP)	2	10.2	3	10.2	10.2	1.2260	1.6022	0.1675	3.3478	8.4165	3.5751	1.9811	0.1925	0.3788	1.1693	0.1452
PCBs (Polychlorinated Biphenyls)																
	1.2	2.1	8	2.1	2.1	NA	NA	NA	NA	0.449	0.315	NA	NA	NA	NA	NA
VOC's																
Naphthalene	10	7.5	28	7.5	7.5	0.0787	0.0849	<0.025	0.142	0.959	0.425	0.1	<0.025	0.055	0.044	<0.025
Toluene	107	6.4	305	6.4	6.4	0.0372	<0.025	<0.025	<0.025	0.0908	0.0668	<0.0253	<0.025	0.0412	<0.0253	<0.025
1,2,4-Trimethylbenzene	8		25			<0.025	<0.025	<0.025	<0.025	0.0526	0.0332	<0.0253	<0.025	<0.0255	<0.0253	<0.025
Xylenes (m/bc)	45	45	130		45	<0.025	<0.025	<0.025	<0.025	0.162	0.1019	<0.0253	<0.025	0.0323	<0.0253	<0.025
Bromoform	NR	0.14	NR		0.14	<0.025	<0.025	<0.025	<0.025	0.426	<0.025	<0.0253	<0.025	<0.0253	<0.0253	<0.025
Ethyl benzene	200	4.7	200	4.7	4.7	<0.025	<0.025	<0.025	<0.025	0.0302	<0.025	<0.0253	<0.025	<0.0255	<0.0253	<0.025
BOLD ITALIC = Exceeds Tier 1 Residential SRV																
BOLD = Exceeds Tier 2 Industrial SRV																
NA = Not Analyzed For																
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Table 6: Soil Boring Logs				
Location	Depth (ft)	Description	PID	Odor
Pit 1	0-1	Brn Sand and Gravel (dry)	0.0	No
	1-2	Brn Sand and Gravel w/ Cobbles (dry)	0.0	No
	2-4	Brn Sand w/ Cobbles and Boulders (dry)	0.0	No
	Sat @ 4', Set temp well to 6.5' w/ 5 foot screen			
Pit 2	0-2	Brn Sand w/ Rocks, Gravel (dry)	0.4	No
	2-4	Brn Silty Sand w/ Cobbles (dry)	0.6	No
	Sat @ 4'			
Pit 3	0-2	Brn Sand w/ Gravel and Cobbles (dry)	1.2	No
	2-4	Brn Silty Sand w/ Cobbles (dry)	1.4	No
	Sat @ 4.6', Set temp well to 8' w/ 5 foot screen			
Pit 4	1-3	Silty Sand w/ Rocks, Gravel, Cobbles (dry)	0.0	No
	3-5	Brn Sand w/ Silt, cobbles (dry)	0.4	No
	Moist @ 4.8'			
Pit 5	1-3	Sand w/ Silt, Rocks, Gravel (dry)	0.1	No
	3-5	Silty Sand w/ Rocks, Gravel, Cobbles (dry)	0.9	No
	Sat @ 5.5', Set temp well to 8' w/ 5 foot screen			
Pit 6	0-2	Sand w/ Gravel, Rocks (dry)	0.0	No
	2-4	Silty Sand w/ Rocks, Gravel, Cobbles (dry)	0.0	No
	Moist @ 3.9'			
Pit 7	0-2	Sand w/ Gravel (dry)	0.0	No
	2-4	Sand w/ Gravel (dry)	0.0	No
	Moist @ 3.9'			
Pit 8	0-2	Brn Sand (native) (dry)	0.0	No
	2-4	Brn Sand (native) (dry)	0.0	No
	Moist @ 3.8'			
Pit 9	0-2	Silty Sand/Clay w/ Rocks (dry)	0.0	No
	2-4	Silty Sand/Clay w/ Rocks (dry)	0.0	No
	Moist @ 4'			
Pit 10	0-2	Silty Clay and Sand w/ Rocks (dry)	0.0	No
	2-4	Silty Clay and Sand w/ Rocks (dry)	0.0	No
	Sat @ 4.6', Set temp well to 7' w/ 5 foot screen, more sandy at bottom			
Pit 11	0-2	60% Rocks, rest Silty Clays (dry)	0.4	No
	2-4	30% Rocks, rest Silty Clays (dry)	0.4	No
	Moist @ 3.8'			
Pit 12	0-2	Rock, Concrete with Silt/Sand/Clay (dry)	0.0	No
	2-4	Rock, Concrete with Silt/Sand/Clay (dry)	0.4	No
	Sat @ 6', Set temp well to 9' w/ 5 foot screen, more sandy at bottom			
Pit 13	0-2	Concrete/Rocks/Wood/Sand (dry)	0.0	No
	2-4	Concrete/Rocks/Wood/Sand (dry)	0.3	No
	Moist @ 3.9', Very Tough Digging			
Pit 14	0-2	Silt/Sand/Gravel/Rocks (dry)	1.3	No
	2-4	Clay w/ Concrete/Rocks/Wood (dry)	0.3	No
	Sat @ 4.5', Set temp well to 9' w/ 5 foot screen, more sandy at bottom			

Table 6: Soil Boring Logs				
Location	Depth (ft)	Description	PID	Odor
Pit 15	0-2	Sand w/ Silt, Rocks, Wood, Brick (dry)	0.2	No
	2-4	Sand w/ Silt, Rocks, Wood, Brick (dry)	0.5	No
	Moist @ 4'			
Pit 16	0-2	Gone to prior excavation		
	2-4	Clay/Silt/Rocks/Sand (dry)	0.0	No
	Sat @ 4.6', Set temp well to 7' w/ 5 foot screen, more sandy at bottom			

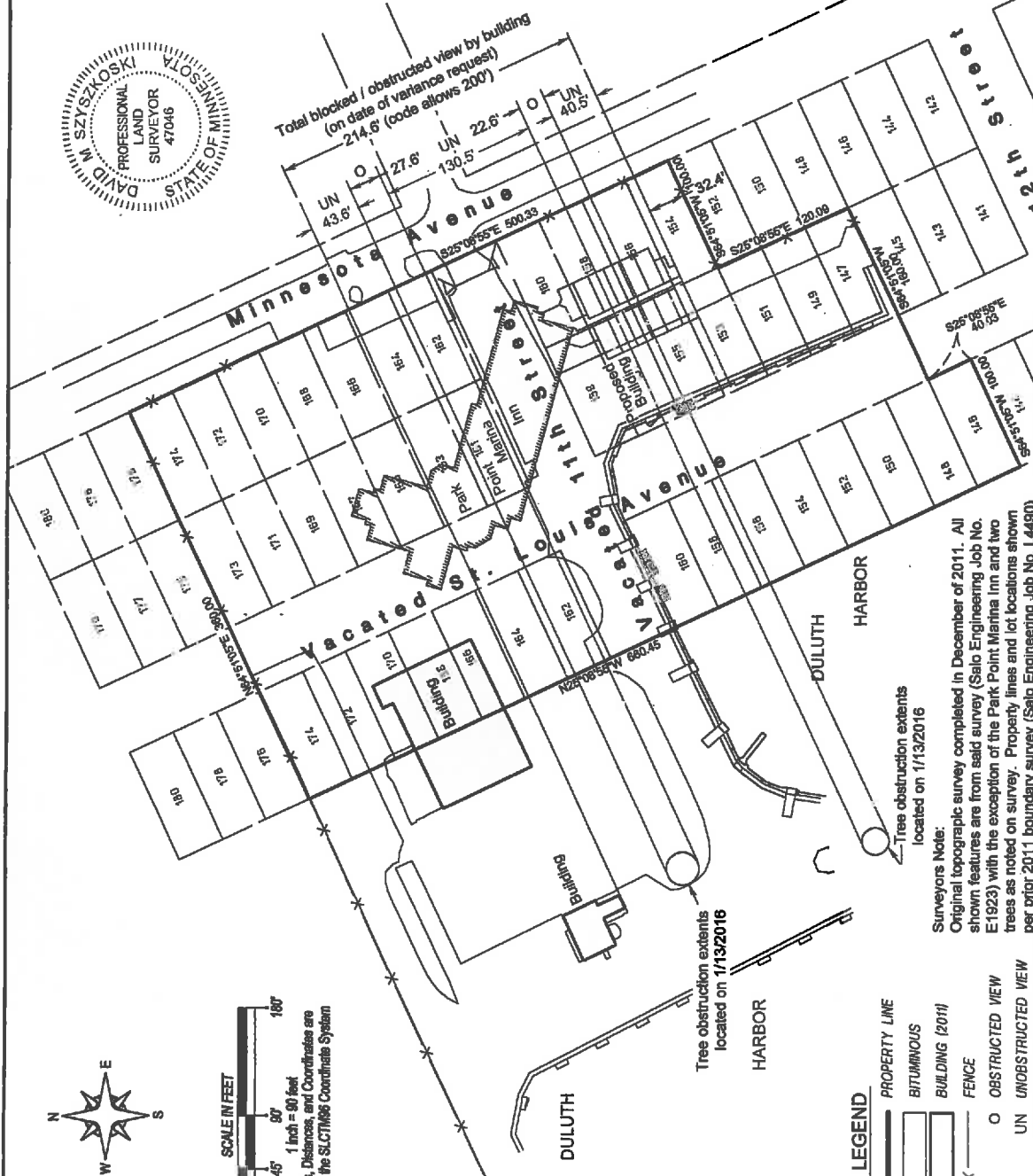
Per City of Duluth Unified Development Chapter Base
Zoning Map Number 18, Revision Date April 1, 2015
this property is in Zone MU-W Zone MU-W
Dimensional Requirements are as follows:

LOST STANDARDS	
Townhouse or Row-work dwelling	2,200 sq. ft.
Multi-family	500 sq. ft.
Efficiency unit	300 sq. ft.
Minimum lot frontage	50 ft.
Minimum depth of front yard	0 ft.
Non-residential use adjacent to residential district or use	15 ft.
Non-residential use adjacent to non-residential district or use	0 ft.
Multi-family adjacent to single-family districts or use	10 ft.
Multi-family adjacent to multi-family district or use	0 ft.
Minimum depth of rear yard	25 ft.
Residential or mixed use	120 ft.
Non-residential	45 ft.
Within 500 ft. of R-1 district	35 ft.
Within 500 ft. of R-2 district	50 ft.

Section 50.21 Dimensional Standards contains additional regulations applicable to this district.

City of Duluth Unified Development Chapter Code,
Section 50-15.6 E2 states:

To protect public views to the waterfront from the closest landward public street running approximately parallel to the water, all primary structures shall have a maximum width of 200 feet measured along the shoreline and shall be separated from other primary structures by a minimum of 50 feet. These requirements shall not apply to porches or buildings that do not block public views of Lake Superior, the harbor and the St. Louis River from the closest landward public street running approximately parallel to the water due to topography or the location.



LEGEND

- PROPERTY LINE
- BITUMINOUS
- BUILDING (2011)
- FENCE
- OBSTRUCTED VIEW
- UN OBSTRUCTED VIEW

Surveyors Note:
Original topographic survey completed in December of 2011. All shown features are from said survey (Salo Engineering Job No. E1923) with the exception of the Park Point Marina Inn and two trees as noted on survey. Property lines and lot locations shown per prior 2011 boundary survey (Salo Engineering Job No. L4490).

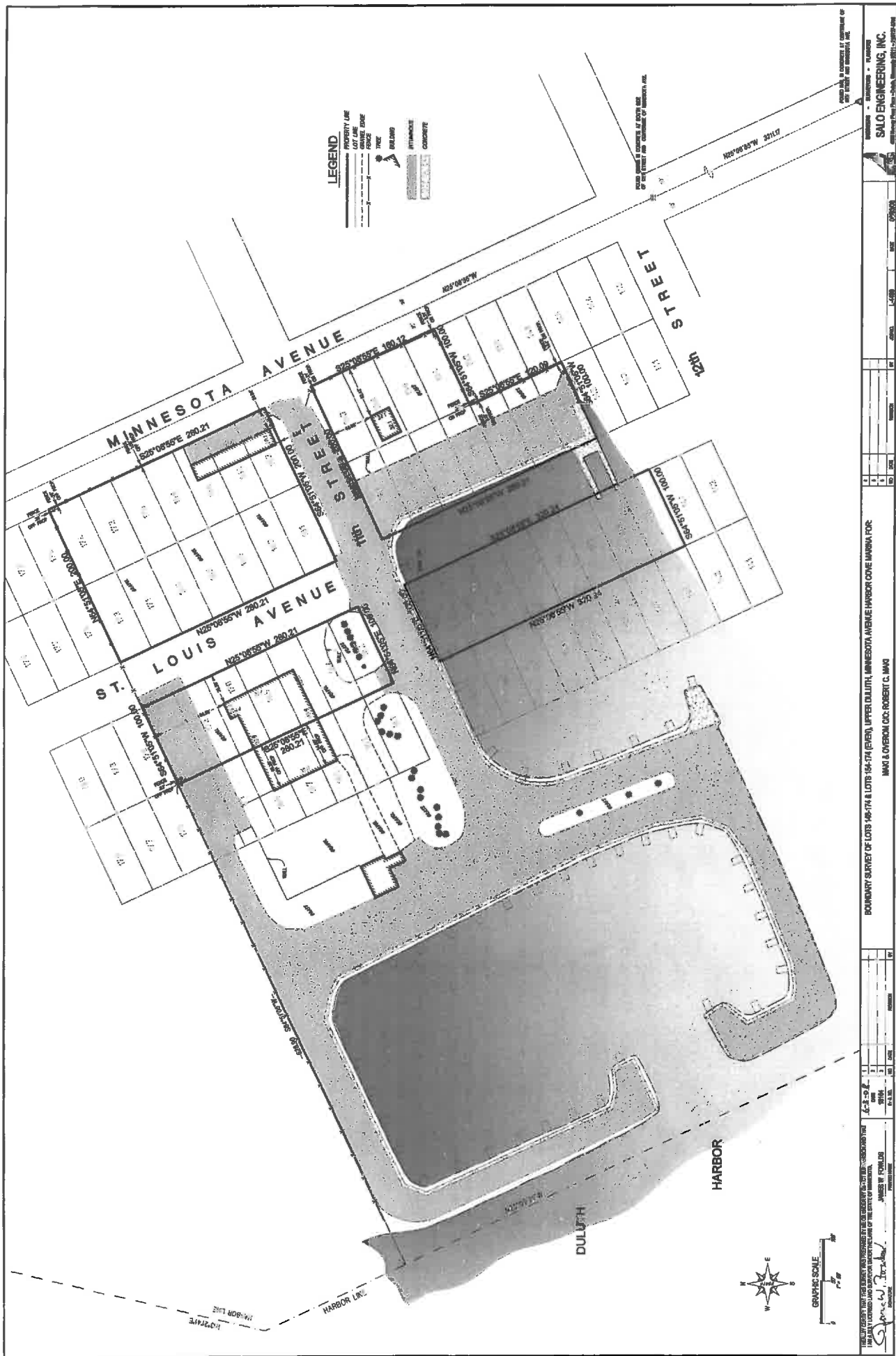
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
DATE: 1/19/2016
DAVID SZYSZOWSKI

4860 Norway Pines Place
Duluth, MN 55811
218-727-5795
ttda.com

Removed Buildings from drawing
Added additional dimensions as requested
Added Tree obstructions and dimensions

Topographic Survey / Proposed Building Exhibit of Harbor Cove Marina
aka Park Point Marina Inn, City of Duluth, Minnesota
For: Globe Duluth Enterprises

JOB NO. 16513.179 FILE NO. E1923C DATE OF FIELD WORK: 12/2011 & 9/2015



BOUNDARY SURVEY OF LOTS 146-174 & LOTS 194-214 (EVEN), UPPER DULUTH, MINNESOTA AVENUE HARBOR COVE MARINA FOR
MAG & OVERSON COS. ROBERT C. MAG

SAVO ENGINEERING, INC.
SURVEYING • ENGINEERING • PLANNING
4000 River Road, Duluth, Minnesota 55812-1000
TEL: 218-261-1000 FAX: 218-261-1001

DATE: 10/1/00
BY: JLM
CHECKED: JLM
APPROVED: JLM

THIS SURVEY WAS PREPARED BY THE SURVEYOR AND IS NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF THE SURVEYOR. THE SURVEYOR IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS SURVEY.







