



LEE & RYAN

Construction • Environmental • Engineering • Mechanical

August 6, 2012

Scott Isaacs, Sheboygan River AOC Habitat Restoration Projects
City of Sheboygan
Department of Public Works
2026 New Jersey Avenue
Sheboygan, Wisconsin 53081-4714

**RE: Resolution 32- 2012/2013 Sheboygan
River Area of Concern (AOC) Habitat
Restoration Projects**
Contractor Submittal No. 1
Register No. 1
Specification Reference No: 01310
Submittal Register

Mr. Isaacs,

Please find attached documentation being submitted to you per project specifications for the Sheboygan River Area of Concern (AOC) Habitat Restoration Projects. If you have any questions, please feel free to contact me by telephone at (317) 289-0681 or by e-mail at bsmith@leeandryan.com.

Respectfully,

LEE & RYAN ENVIRONMENTAL CONSULTING, INC.

Brandi Smith
Federal Capture Manager

Enclosures: Submittal Register

Chicago

Indianapolis

Atlanta

PROJECT TITLE:		SHEBOYGAN RIVER A.O.C. HABITAT RESTORATION PROJECT							CONTRACT NUMBER:				
LOCATION:		SHEBOYGAN WISCONSIN							TO/DO NUMBER:				
SUBMITTAL NUMBER	REGISTER NUMBER	Description of Submittal	REFERENCE: Spec/Drawing	Approving Requirement: (A) Approved/ (I) Information	Frequency (Once, Weekly, etc.)	ANTICIPATED DELIVERY DATE	DATE SENT TO CLIENT	RETURN SUSPENSE DATE	DATE CONTRACTOR NOTIFIED		RESUBMITTAL DATE	FINAL APPROVAL DATE	REMARKS
									APPROVED	DIS-APPROVED			
Submittals Prior to Construction													
1	1	Submittal Register	Spec 01310	(A)	Once	6-Aug-12							Needed for Pre-Con Meeting
2	2	Overall Construction Schedule	Spec 01311.F	(A)	Weekly	6-Aug-12							Needed for Pre-Con Meeting
3	3	Schedule of Values	Spec 01310	(A)	Once	6-Aug-12							Needed for Pre-Con Meeting
4	4	Cash Flow Summary	Spec 01311.G	(I)	Monthly	6-Aug-12							Needed for Pre-Con Meeting
	5	Application for Payment	Spec 01310	(I)	Monthly	Month End							
5	6	Health and Safety Plan	Spec 01016.C	(A)	Once	6-Aug-12							
	7	Payment and Performance Bond	Per Contract	(I)	Once	6-Aug-12							
	8	Certificate of Insurance	Per Contract	(I)	Once	6-Aug-12							
	9	Excavated Materials Management Plan	Spec 01310.C	(A)	Once	8-Aug-12							Chapter 30 Permit Requirement
	11	Dewatering and Flow Diversion Plan	Spec 01310.D/02530	(A)	Once	9-Aug-12							Chapter 30 Permit Requirement
	12	Sequence of Work Plan	Spec 01310.E	(A)	Once	9-Aug-12							Chapter 30 Permit Requirement
	13	Spill Response Plan	Spec 01310.F	(A)	Once	9-Aug-12							Chapter 30 Permit Requirement
	14	Erosion Control Plan (including DWGs)	Spec 01310.B	(A)	Once	8-Aug-12							Must comply w/ DNR, City & County ordinances
	15	Temporary Facilities Plan	Spec 01500.D	(A)	Once	8-Aug-12							
	16	Subcontractor Quality Control (SQC) Plan	Spec 01310	(I)	Once	9-Aug-12							
	17	Traffic Regulation - Traffic Plan	Spec 01310.G/01570.A	(A)	Once	8-Aug-12							Must comply w/ WIS STAT 200.35 (7)
	18	Training Certifications	Spec 01310	(I)	As Needed	16-Aug-12							40hr HAZWOPER Personnel, CPR First Aid, Etc
	19	Statement of Qualifications - Land Surveyor	Spec 01310	(I)	Once	16-Aug-12							
	20	Monthly Narrative Report	Spec 01016.E	(I)	Monthly	1st of Month							
21	Submittals During Construction												
	22	Record Shop Drawings	Spec 01300.C	(I)	As Needed	TBD							
	23	Pre-Construction Site Survey	Spec 01016.T	(I)	Once	21-Aug-12							NLT 14 days after NTP
	24	Final Lien Waivers	Spec 01700.G	(I)	Once	TBD							
	25	Certificates of Disposal	Specs 02110/02201	(I)	As Needed	TBD							Non-Haz Waste Soils
	26	Fill and Backfill Samples	Spec 02201.B	(A)	As Needed	28-Aug-12							
	27	Topsoil Samples	Spec 02820.B/02830.B	(A)	As Needed	28-Aug-12							
	28	Compaction Test Results	Spec 02201.B	(A)	As Needed	28-Aug-12							
	29	Large Wood (source, size, species, etc)	Spec 02227.A	(I)	As Needed	28-Aug-12							
	30	Cable Material	Spec 02227.A	(A)	Once	28-Aug-12							
	31	Tension Scale Equipment Details	Spec 02227.A	(A)	Once	28-Aug-12							
	32	Aggregates & Boulders (Suppliers, Samples, Analysis, Etc)	02228.A/02229.A/02603.A/02833.A	(A)	As Needed	28-Aug-12							
	33	Wood Treatment Data	Spec 02711.A	(A)	Once	TBD							Cedar Fencing
	34	Certificate of Inspection (Plantings)	Spec 02832.A	(A)	As Needed	TBD							

PROJECT TITLE:		SHEBOYGAN RIVER A.O.C. HABITAT RESTORATION PROJECT							CONTRACT NUMBER:				
LOCATION:		SHEBOYGAN WISCONSIN							TO/DO NUMBER:				
SUBMITTAL NUMBER	REGISTER NUMBER	Description of Submittal	REFERENCE: Spec/Drawing	Approving Requirement: (A) Approved/ (I) Information	Frequency (Once, Weekly, etc.)	ANTICIPATED DELIVERY DATE	DATE SENT TO CLIENT	RETURN SUSPENSE DATE	DATE CONTRACTOR NOTIFIED		RESUBMITTAL DATE	FINAL APPROVAL DATE	REMARKS
									APPROVED	DIS-APPROVED			
	35	Vegetation Maintenance Plan	Spec 02832.A	(A)	Once	16-Aug-12							
	36	Certificate of Nursery Inspections (from governing agency)	Spec 02832.A	(I)	Once	23-Sep-12							
	37	List of Proposed Vegetation Suppliers	Spec 02832.B	(I)	Once	23-Sep-12							30 Days Prior to Shipment
	38	After Storm Inspections (Erosion Controls)	Spec 02832.B	(I)	As Needed	As Needed							w/n 36hrs of storm events <0.5"
	39	Annual Maintenance and Site Inspection Reports	Spec 02832.B	(I)	Yearly	TBD							
	40	Fabric Encapsulated Soil Lifts (Manufacturer Certs, Etc)	Spec 02836.A	(A)	Once	15-Sep-12							
	41	Surface Fabric Treatment (Manufacturer Certs, Etc)	Spec 02837.A	(A)	Once	15-Sep-12							
	42	Pre-Cast Concrete Structures	Spec 03305	(A)	Once	28-Aug-12							
	43	Cast-In-Place Concrete	Spec 03305	(A)	Once	28-Aug-12							
	44	Four Sided Concrete Structures	Spec 03400	(A)	Once	28-Aug-12							
	45	Photographs (digital images, video recordings)	Spec 01310	(I)	As Needed	TBD							
	46	Final As-Built Drawings	Spec 01310	(A)	Once	TBD							



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Scott Isaacs, Sheboygan River AOC Habitat Restoration Projects
City of Sheboygan
Department of Public Works
2026 New Jersey Avenue
Sheboygan, Wisconsin 53081-4714

**RE: Resolution 32- 2012/2013 Sheboygan
River Area of Concern (AOC) Habitat
Restoration Projects**
Contractor Submittal No. 2
Register No. 2
Specification Reference No: 01311.F
Overall Construction Schedule

Mr. Isaacs,

Please find attached documentation being submitted to you per project specifications for the Sheboygan River Area of Concern (AOC) Habitat Restoration Projects. If you have any questions, please feel free to contact me by telephone at (317) 289-0681 or by e-mail at bsmith@leeandryan.com.

Respectfully,

LEE & RYAN ENVIRONMENTAL CONSULTING, INC.

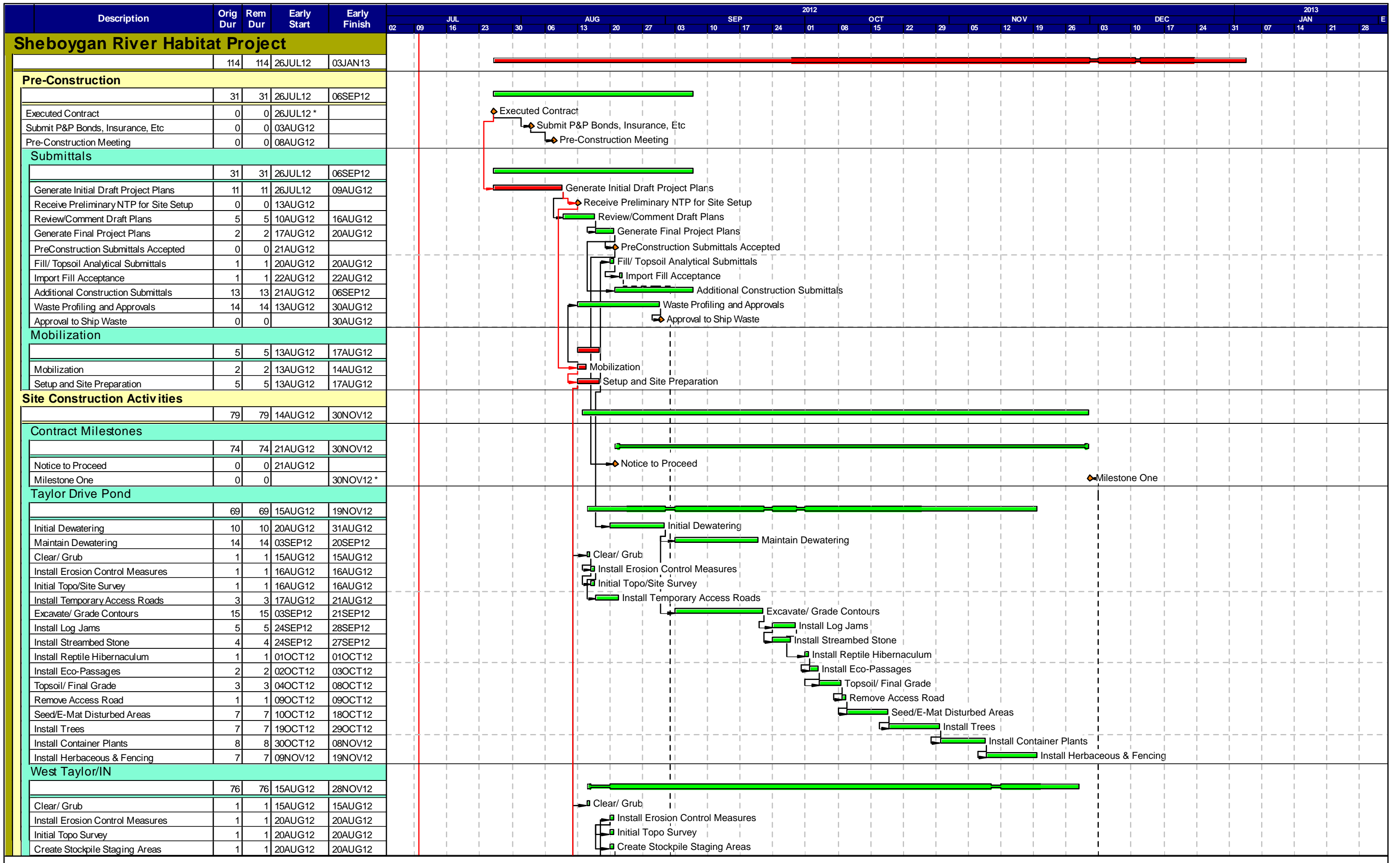
Brandi Smith
Federal Capture Manager

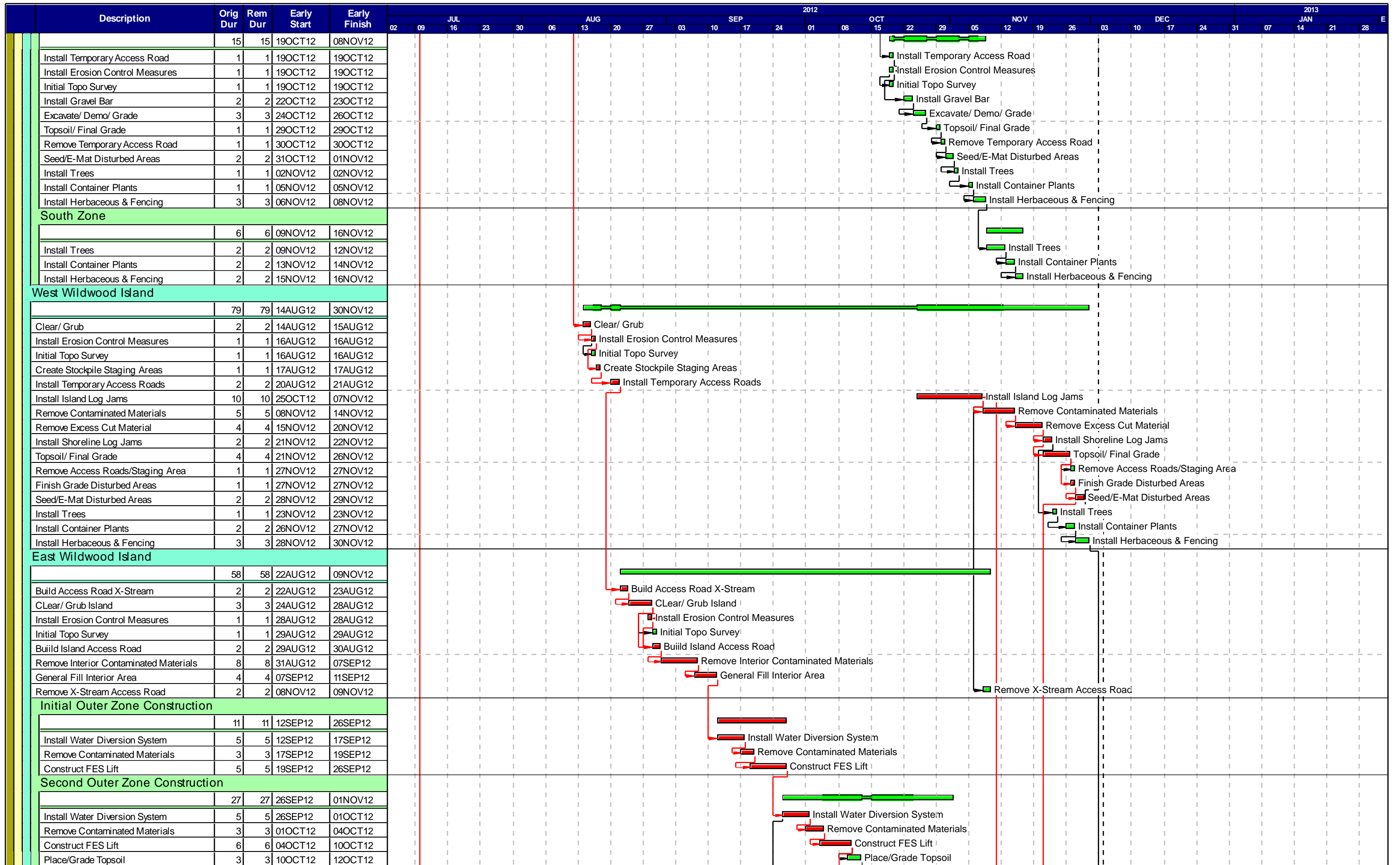
Enclosures: Overall Construction Schedule

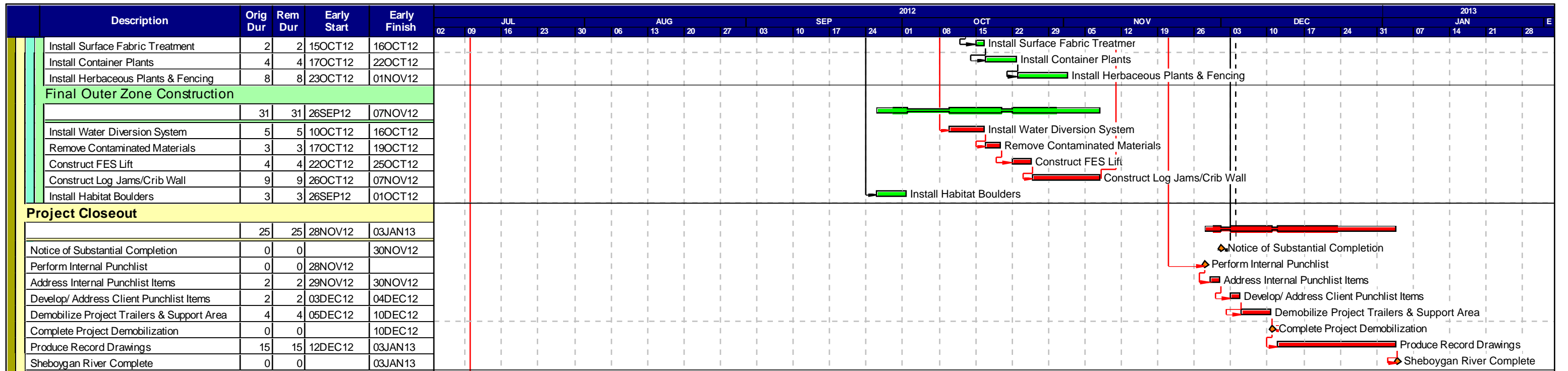
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- Early bar
- Progress bar
- Critical bar
- Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point

Lee & Ryan, Inc

Sheboygan River Habitat Restoration Project

Date	Revision	Checked	Approved



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August 6, 2012

Scott Isaacs, Sheboygan River AOC Habitat Restoration Projects
City of Sheboygan
Department of Public Works
2026 New Jersey Avenue
Sheboygan, Wisconsin 53081-4714

**RE: Resolution 32- 2012/2013 Sheboygan
River Area of Concern (AOC) Habitat
Restoration Projects**
Contractor Submittal No. 3
Register No. 3
Specification Reference No: 01310
Schedule of Values

Mr. Isaacs,

Please find attached documentation being submitted to you per project specifications for the Sheboygan River Area of Concern (AOC) Habitat Restoration Projects. If you have any questions, please feel free to contact me by telephone at (317) 289-0681 or by e-mail at bsmith@leeandryan.com.

Respectfully,

LEE & RYAN ENVIRONMENTAL CONSULTING, INC.

Brandi Smith
Federal Capture Manager

Enclosures: Schedule of Values

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Schedule of Values

Sheboygan River Areas of Concern Habitat Restoration

ITEM

NO.	SPEC SECTION	DESCRIPTION OF WORK	Unit Price	Quantity	Total Value
1	02015.01	Move In and Site Preparation	\$ 119,582.87	1.00	\$ 119,582.87
2	02015.02	Security Fence	\$ 3.43	14,400.00	\$ 49,392.00
3	02102.01	Clearing, Grubbing, Stripping and Stockpiling	\$ 26,282.40	3.50	\$ 91,988.40
4	02110.01	Concrete Pavement Demolition	\$ 13.03	585.00	\$ 7,622.55
5	02110.03	RCP Storm Sewer Demolition	\$ 47.71	130.00	\$ 6,202.30
6	02110.03	CMP Culvert Removal & Disposal	\$ 172.95	40.00	\$ 6,918.00
7	02110.04	Debris Removal & Disposal	\$ 91.93	525.00	\$ 48,263.25
8	02201.01	Treatment Excavation - Waste Disposal	\$ 81.26	14,648.00	\$ 1,190,296.48
9	02201.02	Treatment Excavation - General Disposal	\$ 86.82	656.00	\$ 56,953.92
10	02201.03	Common Excavation /Backfill - Taylor Dr/Indiana Ave site	\$ 400,293.46	1.00	\$ 400,293.46
11	02201.04	Common Excavation/Backfill - Wildwood Island site	\$ 464,550.27	1.00	\$ 464,550.27
12	02201.05	Common Excavation/Backfill - Kiwanis Park site	\$ 68,570.26	1.00	\$ 68,570.26
13	02227.01	Large Wood - Log Jams	\$ 947.53	50.00	\$ 47,376.50
14	02227.02	Large Wood - Crib Wall (Owner Provided)	\$ 607.55	350.00	\$ 212,642.50
15	02227.03	Large Wood - Crib Wall (Contractor Provided)	\$ 927.67	25.00	\$ 23,191.75
16	02227.04	Boulder Ballast (3' dia.)	\$ 187.53	50.00	\$ 9,376.50
17	02228.01	Gravel Bar Stone	\$ 32.51	780.00	\$ 25,357.80
18	02229.01	Boulders - Habitat (2'-4' dia.)	\$ 160.73	120.00	\$ 19,287.60
19	02229.02	Boulders - Landscape (3'-4' dia.)	\$ 103.17	100.00	\$ 10,317.00
20	02229.03	Streambed Stone	\$ 87.14	1,240.00	\$ 108,053.60
21	02229.04	Grandular Fill	\$ 50.63	310.00	\$ 15,695.30
22	02530.01	Control of Water - Taylor Dr/Indiana Ave site	\$ 60,637.61	1.00	\$ 60,637.61
23	02530.02	Control of Water - Wildwood Island site	\$ 126,411.43	1.00	\$ 126,411.43
24	02530.03	Control of Water - Kiwanis Park site	\$ 54,759.58	1.00	\$ 54,759.58

Schedule of Values

Sheboygan River Areas of Concern Habitat Restoration

25	02602.01	Subgrade Preparation	\$ 14.22	240.00	\$ 3,412.80
26	02603.01	Base Aggregate Dense - 1 1/4 Inch	\$ 30.42	210.00	\$ 6,388.20
27	02711.02	Cedar Fencing	\$ 22.10	1,850.00	\$ 40,885.00
28	02820.01	Lawn Seed Mix	\$ 4,544.32	0.67	\$ 3,044.69
29	02830.01	Toposil - 6 Inch Layer	\$ 1.96	43,220.00	\$ 84,711.20
30	02830.02	Topsoil - 12 Inch Layer	\$ 5.10	9,830.00	\$ 50,133.00
31	02832.01	Seedbed Preparation	\$ 727.57	15.89	\$ 11,561.09
32	02832.02	Live Stake - Sandbar Willow	\$ 6.25	638.00	\$ 3,987.50
33	02832.03	Live Stake - Red Osier Dogwood	\$ 6.25	638.00	\$ 3,987.50
34	02832.04	Live Stake - Grey Dogwood	\$ 6.24	639.00	\$ 3,987.36
35	02832.05	Seeding - Seed Mix 1	\$ 4,834.64	2.64	\$ 12,763.45
36	02832.06	Seeding - Seed Mix 2	\$ 7,008.02	4.68	\$ 32,797.53
37	02832.07	Seeding - Seed Mix 3	\$ 3,589.90	1.82	\$ 6,533.62
38	02832.08	Seeding - Seed Mix 4	\$ 4,378.66	5.86	\$ 25,658.95
39	02832.09	Seeding - Seed Mix 5	\$ 5,905.08	0.22	\$ 1,299.12
40	02832.10	Ball & Burlap Plant - Sugar Maple	\$ 335.55	34.00	\$ 11,408.70
41	02832.11	Ball & Burlap Plant - Black Cherry	\$ 390.85	34.00	\$ 13,288.90
42	02832.12	Ball & Burlap Plant - Hackberry	\$ 303.84	41.00	\$ 12,457.44
43	02832.13	Ball & Burlap Plant - Bur Oak	\$ 399.48	39.00	\$ 15,579.72
44	02832.14	Ball & Burlap Plant - American Elm	\$ 381.71	30.00	\$ 11,451.30
45	02832.15	Ball & Burlap Plant - Silver Maple	\$ 415.45	26.00	\$ 10,801.70
46	02832.16	Ball & Burlap Plant Basswood	\$ 278.67	25.00	\$ 6,966.75
47	ALT	Container Plant - Sugar Maple	\$ 81.89	34.00	\$ 2,784.26
48	ALT	Container Plant - Black Cherry	\$ 88.87	33.00	\$ 2,932.71
49	ALT	Container Plant - Hackberry	\$ 82.86	40.00	\$ 3,314.40
50	ALT	Container Plant - Bur Oak	\$ 82.86	40.00	\$ 3,314.40

Schedule of Values

Sheboygan River Areas of Concern Habitat Restoration

51	ALT	Container Plant - American Elm	\$ 93.71	30.00	\$ 2,811.30
52	ALT	Container Plant - Silver Maple	\$ 84.21	27.00	\$ 2,273.67
53	ALT	Container Plant Basswood	\$ 85.75	25.00	\$ 2,143.75
54	02832.17	Herbaceous (Rootstock) Plants - Deep Marsh	\$ 5.03	2,963.00	\$ 14,903.89
55	02832.18	Herbaceous (Rootstock) Plants - Shallow Marsh	\$ 3.83	12,413.00	\$ 47,541.79
56	02832.19	Herbaceous (Rootstock) Plants - Wet Meadow	\$ 3.81	15,939.00	\$ 60,727.59
57	02832.20	Herbaceous (Rootstock) Plants - Tall Grass Prairie	\$ 4.42	1,667.00	\$ 7,368.14
58	02832.21	Herbaceous (Rootstock) Plants - Short Grass Prairie	\$ 4.10	4,302.00	\$ 17,638.20
59	02832.22	Containerized Plant - Red Osier Dogwood	\$ 42.50	547.00	\$ 23,247.50
60	02832.23	Containerized Plant - Grey Dogwood	\$ 41.20	440.00	\$ 18,128.00
61	02832.24	Containerized Plant - Sandbar Willow	\$ 43.16	220.00	\$ 9,495.20
62	02832.25	Containerized Plant - Buttonbush	\$ 43.74	192.00	\$ 8,398.08
63	02832.26	Containerized Plant - Ninebark	\$ 41.64	360.00	\$ 14,990.40
64	02832.27	Containerized Plant - Juneberry	\$ 43.04	227.00	\$ 9,770.08
65	02832.28	Containerized Plant - American Hazelnut	\$ 41.37	405.00	\$ 16,754.85
66	02832.29	Containerized Plant - Choke Cherry	\$ 42.98	231.00	\$ 9,928.38
67	02832.30	Containerized Plant - Staghorn Sumac	\$ 45.12	206.00	\$ 9,294.72
68	02832.31	Containerized Plant - Nannyberry	\$ 43.05	283.00	\$ 12,183.15
69	02832.32	Goose Fencing	\$ 8,053.44	2.32	\$ 18,683.98
70	02832.33	Mulching	\$ 786.92	5.89	\$ 4,634.96
71	02832.34	Veg. Main. Contract - During Construction	\$ 21,280.01	1.00	\$ 21,280.01
72	02832.35	Veg. Main. Contract - Post Construction Year 1	\$ 33,207.23	1.00	\$ 33,207.23
73	02832.36	Veg. Main. Contract - Post Construction Year 2	\$ 26,727.37	1.00	\$ 26,727.37
74	02832.37	Veg. Main. Contract - Post Construction Year 3	\$ 22,391.88	1.00	\$ 22,391.88
75	02833.05	Nesting Platform - Great Blue Heron (1 pole, 3 nests)	\$ 885.92	3.00	\$ 2,657.76
76	02833.06	Nesting Platform - Osprey	\$ 1,464.21	1.00	\$ 1,464.21

Schedule of Values**Sheboygan River Areas of Concern Habitat Restoration**

77	02833.08	Reptile Hibernaculum	\$ 14,978.39	1.00	\$ 14,978.39
78	02833.09	Fishing Platform	\$ 2,933.26	4.00	\$ 11,733.04
79	02836.01	Fabric Encapsulated Soil (FES) Lift	\$ 51.85	5,096.00	\$ 264,227.60
80	02837.01	Surface Fabric Treatment	\$ 3.96	22,750.00	\$ 90,090.00
81	03305.01	Watercourse Concrete	\$ 592.41	5.40	\$ 3,199.01
82	03400.01	Four-Sided Precast Concrete Structure	\$ 115.16	100.00	\$ 11,516.00
TOTAL			\$ 4,423,582.35		



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August 6, 2012

Scott Isaacs, Sheboygan River AOC Habitat Restoration Projects
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Department of Public Works
2026 New Jersey Avenue
Sheboygan, Wisconsin 53081-4714

**RE: Resolution 32- 2012/2013 Sheboygan
River Area of Concern (AOC) Habitat
Restoration Projects**
Contractor Submittal No. 4
Register No. 4
Specification Reference No: 01311.G
Cash Flow Summary

Mr. Isaacs,

Please find attached documentation being submitted to you per project specifications for the Sheboygan River Area of Concern (AOC) Habitat Restoration Projects. If you have any questions, please feel free to contact me by telephone at (317) 289-0681 or by e-mail at bsmith@leeandryan.com.

Respectfully,

LEE & RYAN ENVIRONMENTAL CONSULTING, INC.

Brandi Smith
Federal Capture Manager

Enclosures: Cash Flow Summary

Chicago

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Atlanta

SCHEDULE OF ESTIMATED PROGRESS PAYMENTS

A	B	C	D	D	E	F	G	H	I	J	K												
												CHANGE ORDERS	REVISED SCHEDULED VALUE	APPLICATION MONTHS									
														JUL	AUG	SEP	OCT	NOV	DEC	2013	2014		
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE			Setup			Retainage															
1	Move In and Site Preparation	\$ 119,582.87			\$ 119,582.87																		
2	Security Fence	\$ 49,392.00			\$ 24,696.00	\$ 24,696.00																	
3	Clearing, Grubbing, Stripping and Stockpiling	\$ 91,988.40			\$ 91,988.40																		
4	Concrete Pavement Demolition	\$ 7,622.55					\$ 7,622.55																
5	RCP Storm Sewer Demolition	\$ 6,202.30					\$ 6,202.30																
6	CMP Culvert Removal & Disposal	\$ 6,918.00					\$ 6,918.00																
7	Debris Removal & Disposal	\$ 48,263.25			\$ 48,263.25																		
8	Treatment Excavation - Waste Disposal	\$ 1,190,296.48			\$ 1,190,296.48																		
9	Treatment Excavation - General Disposal	\$ 56,953.92			\$ 56,953.92																		
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14	Large Wood - Crib Wall (Owner Provided)	\$ 212,642.50				\$ 212,642.50																	
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16	Boulder Ballast (3' dia.)	\$ 9,376.50				\$ 9,376.50																	
17	Gravel Bar Stone	\$ 25,357.80				\$ 25,357.80																	
18	Boulders - Habitat (2'-4' dia.)	\$ 19,287.60				\$ 19,287.60																	
19	Boulders - Landscape (3'-4' dia.)	\$ 10,317.00				\$ 10,317.00																	
20	Streambed Stone	\$ 108,053.60				\$ 108,053.60																	
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24	Control of Water - Kiwanis Park site	\$ 54,759.58				\$ 54,759.58																	
25	Subgrade Preparation	\$ 3,412.80				\$ 3,412.80																	
26	Base Aggregate Dense - 1 1/4 Inch	\$ 6,388.20					\$ 6,388.20																
27	Cedar Fencing	\$ 40,885.00					\$ 40,885.00																
28	Lawn Seed Mix	\$ 3,044.69				\$ 3,044.69																	
29	Topsoil - 6 Inch Layer	\$ 84,711.20				\$ 84,711.20																	
30	Topsoil - 12 Inch Layer	\$ 50,133.00					\$ 50,133.00																
31	Seedbed Preparation	\$ 11,561.09					\$ 11,561.09																
32	Live Stake - Sandbar Willow	\$ 3,987.50					\$ 3,987.50																
33	Live Stake - Red Osier Dogwood	\$ 3,987.50					\$ 3,987.50																
34	Live Stake - Grey Dogwood	\$ 3,987.36					\$ 3,987.36																
35	Seeding - Seed Mix 1	\$ 12,763.45					\$ 12,763.45																
36	Seeding - Seed Mix 2	\$ 32,797.53					\$ 32,797.53																
37	Seeding - Seed Mix 3	\$ 6,533.62					\$ 6,533.62																
38	Seeding - Seed Mix 4	\$ 25,658.95					\$ 25,658.95																
39	Seeding - Seed Mix 5	\$ 1,299.12					\$ 1,299.12																
40	Ball & Burlap Plant - Sugar Maple	\$ 11,408.70					\$ 11,408.70																
41	Ball & Burlap Plant - Black Cherry	\$ 13,288.90					\$ 13,288.90																
42	Ball & Burlap Plant - Hackberry	\$ 12,457.44					\$ 12,457.44																
43	Ball & Burlap Plant - Bur Oak	\$ 15,579.72					\$ 15,579.72																
44	Ball & Burlap Plant - American Elm	\$ 11,451.30					\$ 11,451.30																
45	Ball & Burlap Plant - Silver Maple	\$ 10,801.70					\$ 10,801.70																
46	Ball & Burlap Plant Basswood	\$ 6,966.75					\$ 6,966.75																
47	Container Plant - Sugar Maple	\$ 2,784.26					\$ 2,784.26																
48	Container Plant - Black Cherry	\$ 2,932.71					\$ 2,932.71																

49	Container Plant - Hackberry	\$	3,314.40						\$	3,314.40											
50	Container Plant - Bur Oak	\$	3,314.40						\$	3,314.40											
51	Container Plant - American Elm	\$	2,811.30						\$	2,811.30											
52	Container Plant - Silver Maple	\$	2,273.67						\$	2,273.67											
53	Container Plant Basswood	\$	2,143.75						\$	2,143.75											
54	Herbaceous (Rootstock) Plants - Deep Marsh	\$	14,903.89						\$	14,903.89											
55	Herbaceous (Rootstock) Plants - Shallow Marsh	\$	47,541.79						\$	47,541.79											
56	Herbaceous (Rootstock) Plants - Wet Meadow	\$	60,727.59						\$	60,727.59											
57	Herbaceous (Rootstock) Plants - Tall Grass Prairie	\$	7,368.14						\$	7,368.14											
58	Herbaceous (Rootstock) Plants - Short Grass Prairie	\$	17,638.20						\$	17,638.20											
59	Containerized Plant - Red Osier Dogwood	\$	23,247.50						\$	23,247.50											
60	Containerized Plant - Grey Dogwood	\$	18,128.00						\$	18,128.00											
61	Containerized Plant - Sandbar Willow	\$	9,495.20						\$	9,495.20											
62	Containerized Plant - Buttonbush	\$	8,398.08						\$	8,398.08											
63	Containerized Plant - Ninebark	\$	14,990.40						\$	14,990.40											
64	Containerized Plant - Juneberry	\$	9,770.08						\$	9,770.08											
65	Containerized Plant - American Hazelnut	\$	16,754.85						\$	16,754.85											
66	Containerized Plant - Choke Cherry	\$	9,928.38						\$	9,928.38											
67	Containerized Plant - Staghorn Sumac	\$	9,294.72						\$	9,294.72											
68	Containerized Plant - Nannyberry	\$	12,183.15						\$	12,183.15											
69	Goose Fencing	\$	18,683.98						\$	18,683.98											
70	Mulching	\$	4,634.96						\$	4,634.96											
71	Veg. Main. Contract - During Construction	\$	21,280.01						\$	21,280.01											
72	Veg. Main. Contract - Post Construction Year 1	\$	33,207.23								\$	33,207.23									
73	Veg. Main. Contract - Post Construction Year 2	\$	26,727.37									\$	26,727.37								
74	Veg. Main. Contract - Post Construction Year 3	\$	22,391.88										\$	22,391.88							
75	Nesting Platform - Great Blue Heron (1 pole, 3 nests)	\$	2,657.76						\$	2,657.76											
76	Nesting Platform - Osprey	\$	1,464.21						\$	1,464.21											
77	Reptile Hibernaculum	\$	14,978.39						\$	14,978.39											
78	Fishing Platform	\$	11,733.04						\$	11,733.04											
79	Fabric Encapsulated Soil (FES) Lift	\$	264,227.60						\$	264,227.60											
80	Surface Fabric Treatment	\$	90,090.00						\$	90,090.00											
81	Watercourse Concrete	\$	3,199.01						\$	3,199.01											
82	Four-Sided Precast Concrete Structure	\$	11,516.00						\$	11,516.00											
Totals		\$	4,423,582.35	\$	-	\$	-														
ESTIMATED APPLICATION AMOUNT						\$	-	\$	236,267.27	\$	1,335,904.95	\$	1,151,775.70	\$	1,617,307.95	\$	33,207.23	\$	26,727.37	\$	22,391.88
RETAINAGE INVOICE																\$	434,125.59				
RETAINAGE						\$	-	\$	23,626.73	\$	133,590.50	\$	115,177.57	\$	161,730.80						



LEE & RYAN

Construction • Environmental • Engineering • Mechanical

August 6, 2012

Scott Isaacs, Sheboygan River AOC Habitat Restoration Projects
City of Sheboygan
Department of Public Works
2026 New Jersey Avenue
Sheboygan, Wisconsin 53081-4714

**RE: Resolution 32- 2012/2013 Sheboygan
River Area of Concern (AOC) Habitat
Restoration Projects**
Contractor Submittal No. 5
Register No: 6
Specification Reference No: 01016 A-D
Site Specific Health and Safety Plan

Scott Isaacs,

Please find attached documentation being submitted to you per project specifications for the Sheboygan River Area of Concern (AOC) Habitat Restoration Projects. If you have any questions, please feel free to contact me by telephone at (317) 289-0681 or by e-mail at bsmith@leeandryan.com.

Respectfully,

LEE & RYAN ENVIRONMENTAL CONSULTING, INC.

Brandi Smith
Federal Capture Manager

Enclosures: Site Specific Health and Safety Plan



LEE & RYAN

Site Specific Health and Safety Plan

Sheboygan River Area of Concern Habitat Restoration Projects- Rebid

Sheboygan, Wisconsin

SEH No. SHEBO 118278

Resolution No. 32- 2012/2013

By:

Lee & Ryan Environmental Consulting, Inc.



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1.0 INTRODUCTION

Lee & Ryan Environmental Consulting, Inc. (Lee & Ryan) prepared this Site-Specific Health and Safety Plan (SSHSP) in accordance with the Project Specifications. This SSHSP, under the direction of the Project Specifications, will outline the guidelines and methodologies that will be used to protect the health and safety of on-site personnel, visitors, and the public. This plan will be in effect during the implementation and completion of the Contract Specifications for the Sheboygan River Area of Concern Habitat Restoration Projects contract for the City of Sheboygan, WI.

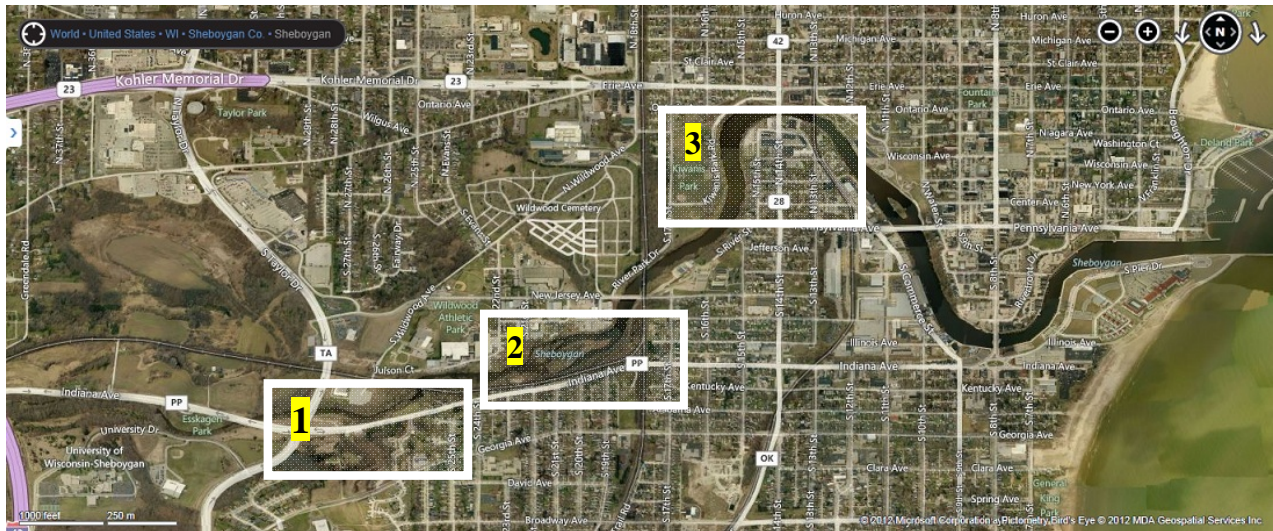
Site: The project consists of fish and wildlife habitat restoration improvements along the Sheboygan River, in the City of Sheboygan and Sheboygan County, Wisconsin, and which are contained within three broad habitat restoration project sites, including:

1. Taylor Drive and Indiana Avenue site;
2. Wildwood Island site; and
3. Kiwanis Park site.

Scope of Work: As the Prime Contractor, Lee & Ryan will provide Subcontractor management, contract management, Quality and Health and Safety management at the Program Level. On the Project Level, Lee & Ryan will provide Project management, site supervision, water treatment, sediment and water sampling and testing.

Fish and wildlife habitat restoration improvements along the Sheboygan River, in the City of Sheboygan and Sheboygan County, which are contained within three broad habitat restoration project sites, including: (1) the Taylor Drive and Indiana Avenue site; (2) the Wildwood Island site; and (3) the Kiwanis Park site. Habitat restoration improvements include: earth moving, grading, and special waste disposal; civil/ storm-water facility construction; native vegetation installation and maintenance in wetland and upland areas; geomorphic features such as boulder placement, gravel bars, logjams / benches, and fabric encapsulated soil lifts; and the installation of habitat features such as bird / bat houses, osprey/ heron nesting platforms, and a reptile hibernaculum.

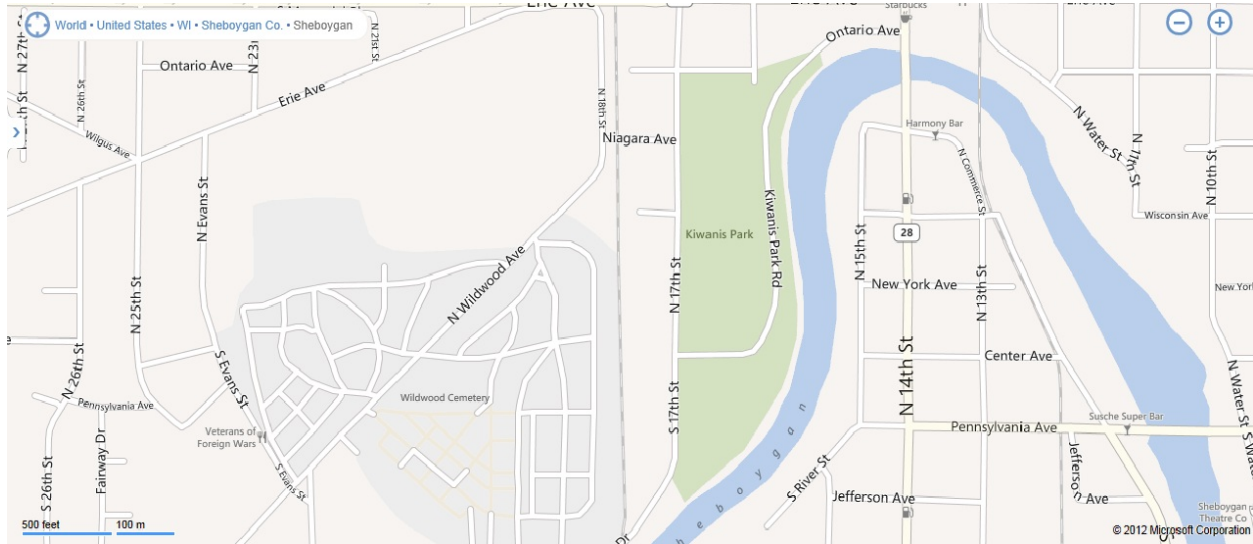
Map of Project:



Sheboygan, WI - Numbered Jobsites 1: Taylor Dr. and Indiana; 2: Wildwood Island; 3: Kiwanis Park



Close-up “street view” of:
1: Taylor Road and Indiana location
2: Wildwood Island



3: Kiwanis Park

Project Description: Fish and wildlife habitat restoration improvements along the Sheboygan River using:

- Multiple operational crews consisting of 3-4 trained operators and technicians, working in various on each of the three separate project segments.
- Heavy equipment consisting of hydraulic excavators, front end loaders, bulldozers, skid-steers with various attachments, on and off road dump trucks for transporting bulk materials, etc.
- A portable waste water treatment system consisting of trailer mounted carbon, sand and filtration equipment, various high volume water pumps and hoses, self-contained 21,000 gallon frac-tanks, etc.
- Water diversion systems manufactured by Port-a-Dam, Inc.
- Anticipated on-site work schedule will be 6 days per week, 10-12 hour days.
- Project to be completed by 30 November 2012



2.0 PROJECT ORGANIZATION AND MANAGEMENT

Project organization, responsibilities, lines of communication, and reporting procedures to be implemented during the execution of this project are described in the following subsections.

Program Manager: Tom Knueven

The Program Manager will have overall project responsibility for Lee & Ryan at the senior management level.

Project Manager: Brian Morgan

The Project Manager will be on-site as needed and will attend project progress meetings periodically. The Project Manager ensures the Project Team recognizes the findings, opinions and control of the personnel involved in the implementation and completion of the project.

Site Superintendent

The Site Superintendent will be responsible for oversight of specific on-site tasks and subcontractors. The Site Superintendent serves as the default point of contact for City of Sheboygan Project Engineer.

Health and Safety Manager: Jack Moorman, C.S.P.

The Safety Manager is responsible for the preparation and implementation of SSHSP. The Safety Manager will be responsible for ensuring adherence to the Site Specific Health and Safety Plan during the duration of the project.

Site Safety and Health Officer (SSHO): Mike Jeffries

The Site Safety and Health representative will be responsible for implementation of the Site-Specific Health and Safety Plan during work operations. The SSHO will serve as competent person for daily operations and responsible for all safety required permits.

Insurance Company (Workman's Comp): Liberty Mutual; Wausau Business Insurance Company; Managed by the Tobias Insurance Group 9247 North Meridian Street Suite 300 P.O. Box 90380 Indianapolis, Indiana 46290-0380
TEL: (317) 844-7759



3.0 SITE CHARACTERIZATION AND ANALYSIS

3.1 Site Evaluation

The site evaluation is based on contract specifications, project documents, and site visits by Lee & Ryan personnel. Employees are tasked with completing the restoration of identified portions of the Sheboygan River. The aforementioned scope of work will be completed in accordance with all federal and state safety codes including reports and notifications.

The Sheboygan River Restoration Project does not present a greater risk than other previous construction jobs taken on by Lee & Ryan. Material Safety Data Sheets (MSDS) for any hazardous materials specific to this project will be forwarded to the City of Sheboygan Engineer as they become available on-site.

Lee & Ryan utilizes a Health and Safety Management System (HSMS) that encompasses the Lee & Ryan Health and Safety Plan, Subcontractor Handbook, Employee Safety Handbook/Training, and individual programs. Each part of the HSMS outlines the responsibilities of Lee & Ryan employees and subcontractors to meet the standards issued by the Secretary of Labor at 29 Code of Federal Regulations (CFR) Part 1926 and 29 CFR Part 1910.

3.2 Hazard Identification

Site-specific hazards associated with the completion of the referenced project include the following:

- Demolition hazards
- Material/ contaminated sediment removal
- Chemical hazards
- Power tool operation
- Equipment operations
- Electrical safety
- Ladder/scaffold/scissors lift/articulating boom lift safety
- Hot works activities
- Environmental conditions related to heat, plants, and pests

4.0 CERTIFICATION AND TRAINING REQUIREMENTS

All Lee & Ryan and appropriate subcontractor personnel will have completed a Hazardous Waste Operations and Emergency Response (HAZWOPER) Occupational Safety and Health Administration (OSHA) 40-hour course in performing work associated with the contaminated sediment remediation activities. The project superintendent, project manager and/or site safety representative will have completed the OSHA 30-hour Construction Safety Course.



- All employees will attend on-site orientation training for the aforementioned site-specific hazards.
- All new Lee & Ryan employees will undergo initial safety training as required by Lee & Ryan's Corporate Health and Safety Program. All contract employees new to the Site will be trained in site-specific hazards and contractor safety under Lee & Ryan's contractor safety policy.
- Any additional training will be conducted as required under the project control procedures.
- All employees will receive an initial safety briefing of the scope of work for the project as well as the SSHSP.
- All employees will sign a declaration that they have read or have been read this SSHSP and understand its contents and requirements prior to beginning work activities.

5.0 PERSONAL PROTECTIVE EQUIPMENT

The minimum Personal Protection Equipment (PPE) required for performance of the contract includes:

- American National Standards Institute (ANSI) compliant safety footwear
- Canvas or leather gloves*
- Work clothes, coveralls (Level D)*
- Hard Hat*
- Hearing protection*
- Safety glasses/goggles

**These items will be worn on an as needed based after a PPE hazard assessment as outlined in HSMS-211. Each contractor and subcontractor will be responsible for providing their own required PPE while on-site.*

6.0 GENERAL SAFETY REQUIREMENTS

Lee & Ryan utilizes a HSMS that encompasses the Lee & Ryan Health and Safety Plan, Subcontractor handbook, and individual programs. Each part of the HSMS outlines the responsibilities of Lee & Ryan employees and subcontractors to meet the standards issued by the Secretary of Labor at 29 CFR Part 1926 and 29 CFR Part 1910. In addition, work will also be performed in compliance with all pertinent provisions of the latest version of the U.S. Army Corps of Engineers (USACE) Safety and Health Requirements Manual, EM 385-1-1, as applicable. Any noncompliance activities or conditions that pose a serious or imminent danger to the health or safety of the public or government personnel will be reported to the City of Sheboygan Project Engineer with applicable corrective action. Observed Hazard forms will be addressed immediately and forwarded to the Lee & Ryan Health and Safety office.



All employees/personnel will receive instructions on the health and safety concerns involved with the project at the health and safety briefing to be held prior to work commencement. A health and safety meeting will be conducted weekly, prior to beginning any work activities. Safety meetings will address suspected and potential hazards involved with the tasks to be performed and the necessary precautions to be taken to deal with these hazards. A Health and Safety Briefing Log is provided in **Attachment 1**.

All employees, contractors, and visitors have the ability to stop the movement due to safety concerns. Supervisors/safety representatives will identify and correct the issue prior to continuation.

6.1 General Basic Requirements and Rules

- *Accident Prevention*—Prior to the commencement of new tasks an Activity Hazard Analysis will be conducted in accordance with HSMS-211: PPE/Activity Hazard Analysis (AHA) plan. Each AHA/PPE assessment will be provided to the City of Sheboygan Project Engineer.
- *Daily Inspections*—Daily inspections of the work area will be performed. If evidence of any deficiencies is discovered within the work zone, work will stop until the necessary safeguards have been completed.
- *Material and Equipment Staging*—Staging areas for materials, equipment and heavy lifting will minimize the impact on employee access to the jobsite and traffic flow.
- *Commons Area Housekeeping*—Grounds accessible during work hours will remain clear of materials and tools in accordance with HSMS-001 housekeeping procedures. At the end of shift, all materials and tools will be placed in storage until next day work. Evening hours will be utilized for staging of the next day’s work, so pathways for equipment must remain clear. Housekeeping will be recorded on daily logs.
- *Reporting Hazards and Injuries*—Site employees will promptly report all unsafe conditions, injuries, accidents, and “near misses” to their immediate supervisor. The supervisor will inform the City of Sheboygan Project Engineer immediately and record on the daily log. Injuries will be reported to the site safety officer and evaluated for further treatment if needed. Severe injuries and potential OSHA recordable injuries will be reported to the Lee & Ryan Health and Safety Manager when determination has been made to send the employee to the clinic. Assistance for medical treatment determination may be made by the Health and Safety department or experienced health professional. As outlined in HSMS-120 investigations will be conducted and reported to the City of Sheboygan Project Engineer. A monthly report of injuries will be submitted to the City of Sheboygan Project Engineer along with corrective actions. The use of radios supplemented by landline communications shall be used for reporting.



- *Hot Works*—Hot work activities that take place outside of a designated welding area will require a Hot Work Permit and only properly trained personnel will perform hot work activities. In addition, all combustible materials within 35 feet of the work area will be removed or protected with a suitable flame resistant material, an adequate fire extinguisher will be available, the proper PPE will be worn and a “fire watch” will be conducted for a minimum of 30 minutes after all hot work activities have been completed. Determination of need and permits will be managed by the site safety representative.
- *Eye and Face Protection*—Eye and face protection is required if there is a danger from flying objects or particles (whenever there is grinding, chipping, burning and welding, etc.) or from hazardous chemical splashes. A portable emergency eyewash will be readily accessible at the work site.
- *Proper Dress*—Appropriate work clothes, gloves, and shoes or boots will be worn. No loose clothing or jewelry will be permitted. Head protection (hardhats) and safety glasses will be worn at all times on the worksite. Visitor safety gear will be available for use in the Lee & Ryan construction trailer. Employees handling contaminated sediment will wear a modified class “C” hazardous material PPE including, full Tyvek cover including foot covers. Haulers will need to wear covings if/when placing covers over contaminated sediments. All employees will remove and dispose of coverings/gloves into proper hazardous material containers upon completion of task. Site workers will not eat, drink, smoke or enter vehicles with Tyvek covers, contaminated gloves and washing hands after removal of PPE. Tasks that require employees to be located near water during elevated water level will require the use of personal flotation devices.
- *Safety Guards*—Operate machines or other equipment only if all guards and safety devices are in place and in proper operating condition.
- *Equipment Maintenance*—A pre-use inspection will be performed and documented on checklist before using any equipment or tool. All equipment will be kept in safe working condition. Any defective tools or equipment will be brought to the attention of the employee’s immediate supervisor. Defective tools or equipment will not be used.
- *Proper Use and Care of PPE*—An activity assessment will be conducted to ensure proper PPE is being utilized per the requirements of HSMS-211. Employees will properly maintain and care for all PPE.
- *Required Training before Use of Equipment*—Employees operating powered/motorized equipment will be trained before unsupervised operation. A copy of certifications and training requirements will be maintained by the Lee & Ryan safety department.
- *Marked Work Areas*—All work areas will be properly marked and guarded.



- *Safety Barriers*—Safety barriers will be maintained at all times.
- *Warning Signs*—Warning signs, such as “Hard Hat Area” will be posted and maintained throughout the duration of the project as needed.

Tools

- *Defective Tools*—Defective tools will be tagged and removed from service immediately.
- *Electrical Safety*—Power tools will be either grounded or double-insulated and be used with a Ground Fault Circuit Interrupter (GFCI).
- *Setting Down Power Tools*—Employees will turn tools off and stop their motion before setting them down.
- *Disconnecting Tools*—Tools will be disconnected before changing drills, blades or bits, or attempting repair or adjustment.
- *Attending to Tools*—No running tool will be left unattended under any circumstances.
- *Guards for Saws*—Power saws, table saws, and radial arm saws will have operation blade guards installed and used.
- *Prohibition on Use of Unsafe or Defective Hand Tools*—Unsafe or defective hand tools will not be used. Items watched and removed from the Site will include:
 - Sprung jaws on wrenches
 - Mushroomed heads of chisels or punches
 - Cracked or broken handles of any tool
 - Any other unsafe conditionsKnives will not be used without proper PPE (cut resistant gloves) and procedures listed in AHA.
- *Guards for Portable Abrasive Grinders*—Portable abrasive grinders will have guards that cover the upper and back portions of the abrasive wheel. Wheel speed ratings will never be less than the grinder Rotations Per Minute (RPM) speed.
- *Compressed Air Pressure for Cleaning*—Compressed air pressure will be reduced to less than 30 pounds per square inch (psi) and performed only with effective chip guarding and proper PPE.
- *Valves for Abrasive Blasting Nozzles*—Valves will be of the type that is held open manually.



- *Use of Powder-Actuated Tools*—Only trained employees will operate powder-actuated tools.
- *Compliance with OSHA and ANSI Standards for Employee Tools*—Any employee-furnished tools will meet all OSHA and ANSI requirements.
- *Ladders, Scaffolds, Scissors Lifts and Articulating Boom Lifts*—Only trained personnel will use ladders, scissors lifts and articulating boom lifts. A pre-use inspection will be performed on all equipment and a competent scaffold person will be on-site at all times when scaffold systems are in use. A personal fall arrest system will be worn by occupants of the articulating boom lift and during scaffolding set-up and tear-down when proper guardrails and walk-boards are not in place.

Housekeeping

- *Critical Role of Housekeeping*—Recognize that housekeeping provides the foundation for a safe work environment by helping to prevent accidents and fires and creates a positive attitude in the work area.
- *Material Storage*—Materials will be stored or piled in a stable manner to prevent falling.
- *Removal of Debris*—Combustible scrap, debris, and garbage will be removed at frequent and regular intervals.
- *Safe Passage for Critical Areas*—Stairways, walkways, exit doors, and the areas in front of electrical panels and firefighting equipment will be kept clear of materials, supplies, trash, and debris.
- *Equipment Staging and Storage*—Equipment will be staged and stored so as not to endanger personnel on-site or individuals that may have to be transported from the area in the case of an emergency.
- *Report Housekeeping*—Housekeeping is critical due to the project timeframe and multiple crews. Housekeeping issues will be reported using the Safety Observation Communication Report found in the Lee & Ryan trailer or with the Safety Officer.

Industrial Hygiene and Occupational Health

- *Environmental Conditions*—Wearing of hats, use of sun block protection with an SPF of 30 or greater, and other protective measures will be taken to safeguard against sun exposure. Site safety representatives will monitor the weather and determine a course of action regarding heat stress measures.

- *Physical Hazards*—Because of dense site vegetation, which may hide ruts, cause skin irritation, and harbor insects/pests, Lee & Ryan will:
 - Recommend employees walk in open areas away from overgrowth when not wearing hats or wearing insect repellent.
 - The possibility of poisonous plants (i.e., Poison Ivy, Poison Oak, and Poison Sumac) is on site. Instructions will be made not handle such poisonous plants without gloves.
 - Dust may form in some areas due to heat and humidity variables. Notify the quality control to use non-potable water sprays of the area.
 - *Respiratory Protection*—The generation of dust may be a factor on this project. The site/program management will make the determination when to use non-potable water spraying to maintain dust control without creating a slip hazard. Employees may voluntarily use dust masks for comfort.
 - *Toilet Facilities*—An appropriate number of adequate toilet facilities will be provided as required. The ratio should be 1 toilet for every 15 people within a 5 minute walking distance.
 - *Potable Water*—An adequate supply of potable water will be provided; use of a common drinking cups is prohibited. Potable and non-potable water tanks will be marked.

Tick Tutorial

Every year employees are exposed to tick bites at work and at home putting them at risk of illness. Ticks typically are in wooded areas, bushes, tall grass, and brush. Ticks are black, black and red, or brown and can be up to one-quarter inch (6.4 mm) in size.

In some geographic areas exposure is not easily avoided. Wear tightly woven light-colored clothing with long sleeves and pant legs tucked into boots; spray only outside of clothing with permethrin or permethrin and spray skin with only DEET; and check yourself frequently for ticks.

Where site conditions (vegetation above knee height, tick endemic area) or when tasks (e.g., having to sit or kneel in vegetation) diminish the effectiveness of the other controls mentioned above, bug-out suits (check with your local or regional warehouse) or Tyvek shall be used. Bug-out suits are more breathable than Tyvek.

Take precautions to avoid exposure by including pre-planning measures for biological hazards prior to starting field work. Avoid habitats where possible, reduce the abundance through habitat disruption or application of acaricide. If these controls aren't feasible, contact your local or regional warehouse for preventative equipment such as repellants, protective clothing and tick removal kits. Use the buddy system and perform tick inspections prior to entering the field vehicle. If ticks were not planned to be encountered and are observed, do not continue field work until these controls can be implemented.

Vegetation Tutorial

Poison ivy, poison oak, and poison sumac typically are found in brush or wooded areas. They are more commonly found in moist areas or along the edges of wooded areas. Shrubs are usually 12 to 30 inches high, or can also be a tree-climbing vine, with triple leaflets and short, smooth hair underneath. Plants are red and dark green in spring and summer, with yellowing leaves anytime, especially in dry areas.

Leaves may achieve bright reds in fall, but plants lose its (yellowed, then brown) leaves in winter, leaving toxic stems. All parts of the plant remain toxic throughout the seasons. These plants contain urushiol a colorless or pale yellow oil that oozes from any cut or crushed part of the plant, including the roots, stems and leaves and causes allergic skin reactions when contacted. The oil is active year round.

Become familiar with the identity of these plants (see below). Wear protective clothing that covers exposed skin and clothes. Avoid contact with plants and the outside of protective clothing. If skin contacts a plant, wash the area with soap and water immediately. If the reaction is severe or worsens, seek medical attention.



Poison Ivy



Poison Sumac



Poison Oak

Contamination with poison ivy, sumac, or oak can happen through several pathways, including:

- Direct skin contact with any part of the plant (even roots once above ground foliage has been removed)
- Contact with clothing that has been contaminated with the oil
- Contact from removing shoes that have been contaminated (shoes are coated with urushiol oil)
- Sitting in a vehicle that has become contaminated
- Contact with any objects or tools that have become contaminated
- Inhalation of particles generated by weed whacking, chipping, vegetation clearing
- If you must work on a site with poison ivy, sumac, or oak the following precautions are necessary:
- Do not drive vehicles onto the site where it will come into contact with poison ivy, sumac, or oak.
- Vehicles which need to work in the area, such as drill rigs or heavy equipment, must be washed as soon as possible after leaving the site.

All tools used in the poison ivy, sumac, or oak area, including those used to cut back poison oak, surveying instruments used in the area, air monitoring equipment, or other test apparatus must be decontaminated before they are placed back into the site vehicle. If on-site decontamination is not possible, use plastic to wrap any tools or equipment until they can be decontaminated. PPE, including Tyvek coveralls, gloves, and boot covers must be worn. PPE must be placed into plastic bags and sealed if they are not disposed immediately into a trash receptacle.

As soon as possible following the work, shower to remove any potential contamination. Any body part with suspected or actual exposure should be washed with Zanfel, Tecnu, or other product designed for removing urushiol. If you do not have Zanfel or Tecnu, wash with cold water. Do not take a bath, as the oils can form an invisible film on top of the water and contaminate your entire body upon exiting the bath.



Provisions for Medical Attention

Provisions will be made to ensure:

- Prompt medical attention is available in case of serious injury (including provisions for communications and transportation). A first-aid kit will be available at the project site with supervisory personnel trained in first aid/ Cardiopulmonary Resuscitation (CPR).
- Emergency contact listing will be posted at the worksite with closest hospital/clinic and Emergency Medical Service (EMS) telephone numbers.
- Employees will report each morning in fit condition to work and will not be intoxicated or otherwise impaired because of personal habits.
- Employees taking prescribed medications will make the determination as to their availability to perform duties. Operators of heavy equipment will inform supervisors of medications causing drowsiness and their ability to perform tasks prior to operations.

7.0 EMERGENCY CONTACT INFORMATION

Police Contact: City of Sheboygan Police Department 911

Fire Contact: City of Sheboygan Fire Department 911

City of Sheboygan Project Engineer: As assigned

Explosion: Contact 911

Weather: National Weather Service (NOAA) for Sheboygan

Injury: Call 911 or see *First-Aid* below

Spill: City of Sheboygan Fire Department 911
National Response Center Report Hotline (800) 424-8802
Sheboygan Regional HazMat Team 911

First Aid/CPR

Initial: Site Safety and Health Officer

Name: Mike Jeffries

Address: 1707 Melody Lane, Greenfield, IN 46140

Telephone: (317) 654-7082 (cellular)



Noncritical and Follow-up Care

Provider Map and Directions

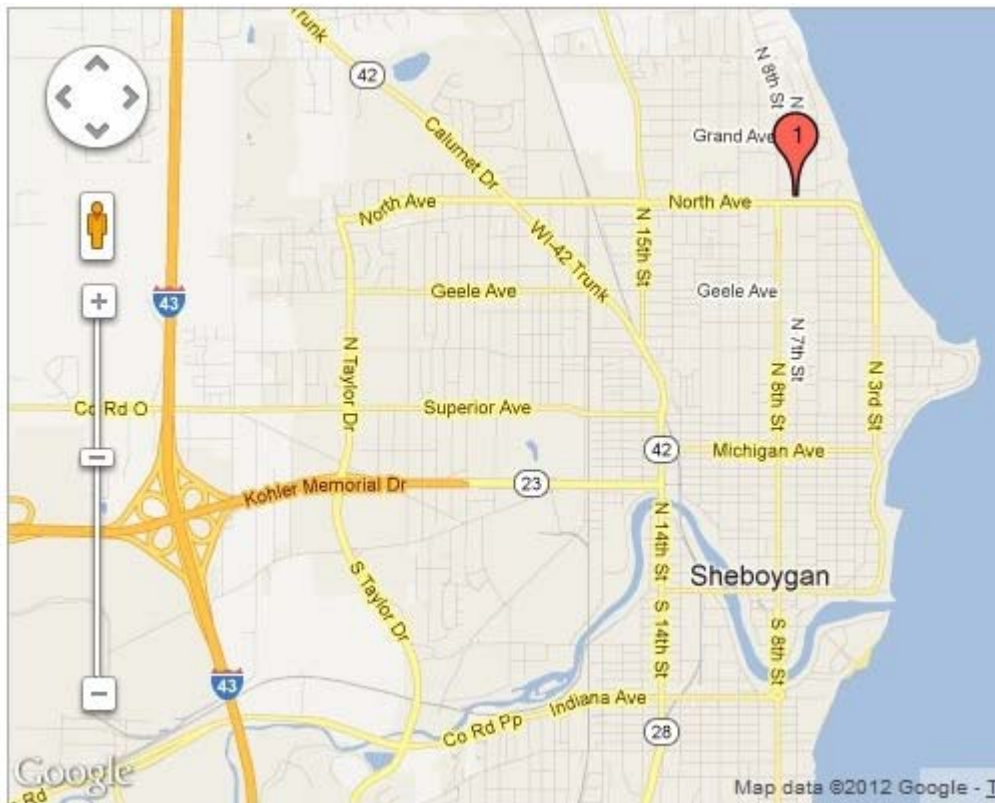
Aurora Sheboygan Memorial Medical Center

Occupational Medicine Clinic

2729 N 7th St

Sheboygan, WI 53083

920-451-5550



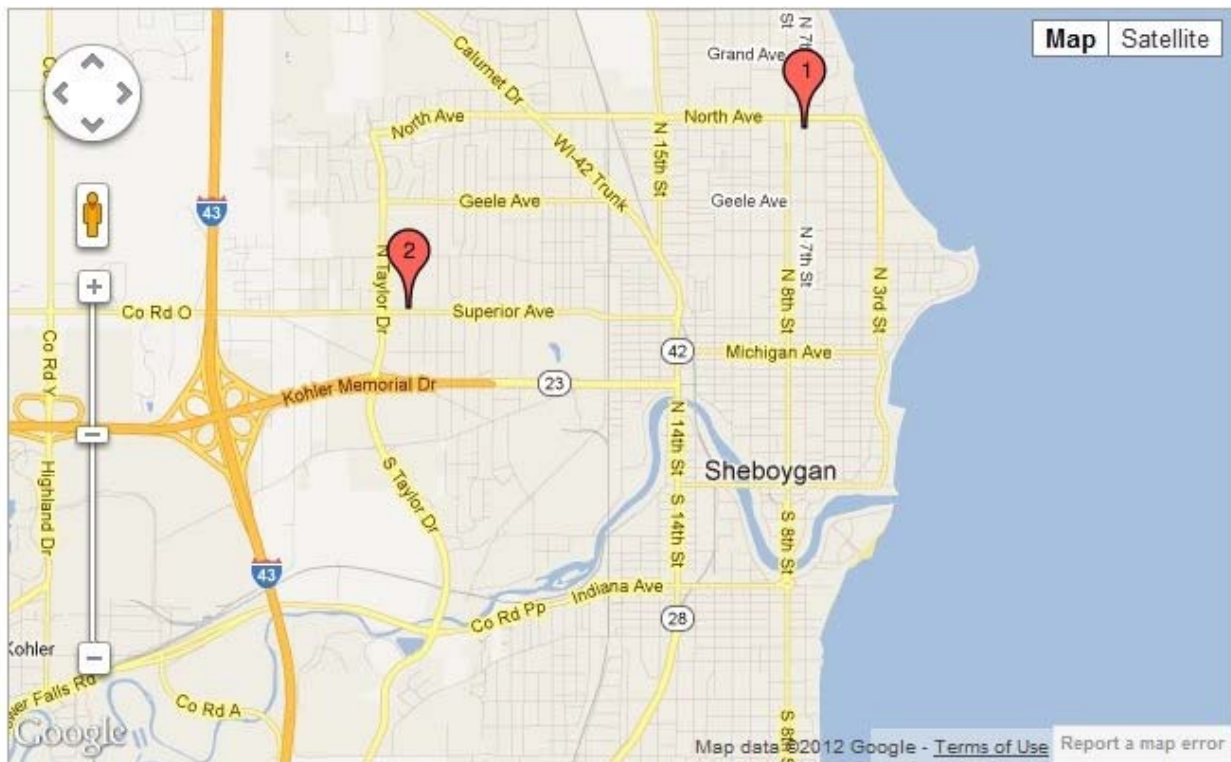


Emergency Care

Provider Map and Directions

1 **Aurora Sheboygan Memorial Medical Center**
Hospital: General Acute Care
2629 N 7th St
Sheboygan, WI 53083
920-451-5000

2 **St. Nicholas Hospital**
Hospital: General Acute Care
3100 Superior Ave
Sheboygan, WI 53081
920-459-8300





8.0 EMERGENCY RESPONSE PLAN

The following standard emergency response procedures will be implemented by on-site personnel if needed. The Site Safety Officer will be notified of any emergency situation on-site and will be responsible for ensuring that the proper procedures are followed. In the event of an evacuation, all personnel must meet at a predetermined location so that all personnel can be accounted for.

Personnel Injury

Upon notification that an injury has occurred, the designated emergency signal will be implemented (normally an air horn or via mobile radio) and all operations in the immediate area will cease. The rescue team will move the injured person(s) to a predetermined location for evaluation by the proper on-site personnel. The Site Safety Officer will begin proper first-aid and contact will be made for an ambulance service as well as the designated medical facility (as needed, based on extent of injury).

If the cause of the injury or loss of the injured person does not affect the performance of site operations/personnel, work activities may continue with the Site Safety Officer beginning the aforementioned first-aid practices. If the cause of the injury increases health and safety risks to other site personnel, operations will cease until the risk is removed or minimized.

Incident investigation forms and supporting documents are provided in **Attachment 2**. The completed Incident Investigation Form will include activities on the Site when the incident occurred, site diagram, witness statements, and photographs of location of the accident.

Fire/Explosion

Upon notification of a fire or explosion on-site, the designated emergency signal will be implemented and all Site personnel will assemble at a predetermined location a safe distance away from the fire/explosion area. The fire department and local emergency management unit will be notified.

Spill Control

In the event of an unforeseen spill of a substance regulated by 40 CFR 302, 40 CFR 355, and /or regulated under the state or local laws, the Project Superintendent will notify the Lee & Ryan Health and Safety Manager immediately. The Health and Safety Manager will ensure that the proper notifications are made to the state and local officials, if a reportable quantity of regulated material is released into the environment. A spill kit will be on-site and used in the event of a fuel release during refueling operations or oil or fuel leak from vehicles and/or equipment. The regulated substance will be contained and removed as quickly as possible in order to minimize the impact to the project site. All fueling operations will be supervised at all times.



PPE and Equipment Failure

If any Site personnel's PPE fails and it affects the protection factor that person, they will be relocated immediately to an area where the PPE can be properly removed, repaired, and/or replaced.

If any equipment on-site fails to operate correctly, the Project Manager and the Project Superintendent/Site Safety Officer will be notified. The Project Manager and Project Superintendent/Site Safety Officer, together with on-site personnel, will determine the effect of the downed equipment on continuing work activities. If the equipment failure affects the health and safety of personnel, or delays the completion of the scope of work, the situation will be further evaluation and appropriate actions will be taken.

Emergency Escape Routes

A designated emergency escape route will be available for use in situations where egress is limited. This route will be illustrated on the Site plan.

Storm Protection

In the event of a storm warning, as identified by weather service radio, including gale force winds or stronger, every practical precaution to minimize danger to personnel, to the work being performed, and adjacent properties will be taken. These precautions include, but are not limited to:

- Removing or securing loose materials
- Removing tools and equipment from exposed locations
- Removing or securing any scaffolding or temporary structures
- Stopping of heavy equipment operations if lightening is in the area as determined by 10 miles from storm path as reported by weather radio maintained by Lee & Ryan trailer
- Having all personal take cover in an adequate structure if a tornado warning is issued
- Ensuring at least 30-minutes have passed since the last lighting strike before resuming work
- Storm activity upstream will be monitored to determine increase in water level of site. Superintendent and the City of Sheboygan Project Engineer will make determination to hold work or remove pile for flood control per flood plan.



Heat/Cold Stress

Heat/cold stress monitoring, which can include body temperature, pulse rate and signs and symptoms, will be administered by the on-site safety officer when appropriate according to the ambient temperatures for the Site during operations. Site personnel performing continuous work under extreme weather conditions will be monitored on an average of every 45–60 minutes (time increments may increase/decrease depending on the required level of protection donned while working) to prevent potential heat/cold stress situations.

Sweating is one way the body uses to maintain a stable temperature in the face of heat, activity and impermeable clothing (Tyvek, raingear etc.) both increase heat inside the body and hinder the evaporation process.

Sweating is only effective if the humidity level is low enough to permit evaporation and if the fluids and salts that are lost are adequately replaced.

If the body cannot dispose of excess heat, it will begin to store it. When this happens, the body's core temperature rises and the heart rate increases. An overheated person will begin to lose concentration, become irritable, and may even lose the desire to drink. The next step is fainting and then possibly death if the individual is not cooled down.

Dangerous Heat Disorders

What you should know about the more dangerous symptoms of heat stress and how to treat them:

Heat Stroke—The most serious health problem, its signs include:

1. Mental confusion, delirium, convulsions or coma
2. A body temperature of 106 degrees F or higher
3. Hot, dry skin with no sweating

Note: Victims of heat stroke will die if not treated promptly. Seek medical help, move victim to a cool area, and soak the clothing in cool water. Vigorously fan the victim until help arrives.

Heat Exhaustion—Signs are clammy skin, weakness, nausea, headache, and body temperature higher than normal. Treatment involves resting in a cool area and drinking water or, better yet, an electrolyte sports beverage to restore minerals lost during sweating.

Heat Cramps—This painful condition indicates that you have been drinking lots of water, but you haven't replaced the salts lost. Drinking electrolyte solutions should help. Do not massage the cramping area.

Note: Experts no longer recommend using salt tablets to treat heat cramps.

Take precautions to prevent becoming a victim of heat stress yourself, here are some precautions to take:

- Gradually adjust to a hot climate by working shorter hours at first and then increasing the time exposure and workload slowly over a period of days
- Take plenty of rest breaks in a cool area
- Drink a lot of fluids, including water and sports beverages. Avoid caffeinated or alcoholic drinks
- Occasionally douse yourself with water
- Wear lightweight, loose fitting clothing, including a brimmed hat and sunglasses
- Apply all-day sunscreen to avoid sunburn



9.0 GENERAL CONTACT INFORMATION

Name	Office	Mobile (24 Hours)
Tom Knueven, Program Manager	(800) 680-8987	(317) 677-6970
Brian Morgan, Project Manager	(800) 680-8987	(317)509-2841
Mike Jeffries, Site Safety Officer	(800) 680-8987	(317) 654-7082
Jack Moorman, Health and Safety Manager	(800) 680-8987	(317) 910-0236

Note: Keep these emergency telephone numbers posted on the job site.

10.0 MATERIAL SAFETY DATA SHEET (MSDS) INFORMATION

Material	Exposure Symptoms	First Aid/CPR Instructions
TBD	See MSDS	See MSDS

MSDS forms are included as **Attachment 3**.

11.0 ACTIVITY HAZARD ANALYSIS

Activity hazard analysis forms are included as **Attachment 4**.

12.0 PERMITS, APPLICATIONS, AND APPROVALS DOCUMENTATION

Prior to the beginning of demolition or construction activities, all required federal and state permits will be obtained.

13.0 REQUIRED SUBMITTALS

Submittals and deliverables, as required, will be produced in accordance with the Contract Specifications. Current records providing factual evidence that required quality control activities and/or tests have been performed will be maintained. These records will include the work of subcontractors and suppliers and will be on an acceptable format that will consist of, but not limited to:

- Contractor/subcontractor and associated responsibilities
- Equipment operation hours, including hours worked, idle, or down for repair
- Test and control activities performed, including results, type of control phase, and any deficiencies with corrective action taken



- Work performed each day, including location, description, and by whom
- Quantity of materials received on-site with statement of acceptability and storage
- Off-site surveillance activities, including the actions taken
- Job safety evaluations stating what was checked, results, and instructions/corrective action
- Instructions given/received and conflicts in plans/or specifications

Daily Reports

Daily activity reports will be completed, which will include the following information. (An example of the Daily Report Submittal Form is included in **Attachment 5**.)

- The date
- Summary of weather conditions
- Summary of locations where construction is occurring
- Summary of work performed on that date with location, description, and personnel performing the work
- Equipment and personnel working on the project
- Test sampling performed and personnel conducting sampling acquisition
 - Written instructions from Site Superintendent for re-testing or change of work
 - Level of PPE during work performed
 - Summary of any meetings held and attendees
 - Job safety evaluations stating what is checked, results, and corrective action taken
 - Description of all materials used and references or results of testing and documentation
- Description of materials received with a statement for acceptability and storage
- Review of submittals with contract reference, whom and action taken
- Inspection data sheets
- Corrective measures reports
- Acceptance reports



- Impacts to schedule if applicable
- Exceptions reports

14.0 GENERAL QUALITY CONTROL REQUIREMENTS

All federal, state, and local regulations concerning this renovation/rehabilitation project will be adhered to during the activities performed on-site as indicated in the Contract Specifications. The following information details the quality control practices to be adhered to during the project.

Protection of Existing Structures and Equipment

All structures, equipment, and environment on or adjacent to the work site, which are not to be removed and do not interfere with the scope of work required under the Contract Specifications, will be properly preserved and protected during the implementation and completion of the activities.

Operations and Designated Staging and/or Storage Area(s)

The staging/storage area(s) will be properly marked and secured for the duration of the project and will be depicted on both the Temporary Facilities and Excavation/Materials Management Plans.

Inspection of Construction

Inspections will be performed regularly to ensure that the work performed under the contract conforms to the Contract Specifications. Inspection records will be maintained and made available to the City of Sheboygan Project Engineer. Final inspections will be performed once the contract work is completed and ready for use. The City of Sheboygan Project Engineer will be notified 15 days prior to the date on which the work will be ready for final inspection.

15.0 GENERAL SECURITY CONTROL REQUIREMENTS

To maintain safety and security at the site, all Lee & Ryan and sub-tier employees will be required to wear a Lee & Ryan-issued identification badge when on-site. The badge will be issued by a representative of the Health and Safety/Security office and will include the Lee & Ryan company logo, the employee's name, picture, and subcontractor company (if applicable). Prior to the issuing of a badge, the employee must submit to Lee & Ryan:

- Licenses/certifications for heavy equipment operators, crane operators, and Commercial Driver's License (CDL) from dump truck drivers
- Documentation of employees current physicals that will be working in contaminated areas and physical contact with contaminated materials



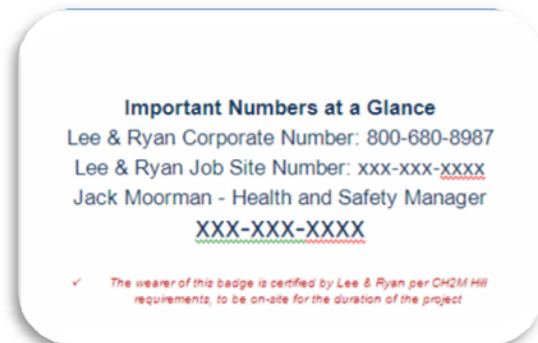
- HAZWOPER training certification(s), as required by the Scope of Work to be performed
- Up to date drug screening certification
- Their OSHA 10 and 30 hour cards
- Completed Signoff sheet showing proof of completion of the site-specific safety orientation

Visitors to the Site will be issued a visitor's badge and must be accompanied by badged employee at all times. Upon leaving the Site, the badge will be returned to representative at the Lee & Ryan Health and Safety/Security office.

Anyone not displaying a site-specific badge will be reported to security and escorted to the construction office, or off the premises.

Any employee discharged from the project will required to surrender their badge to the construction office.

Following is an example of an authorized site-specific badge.





ATTACHMENT 1—HEALTH AND SAFETY BRIEFING LOG AND DISCUSSION IDEAS



Health and Safety Briefing Log	
Date:	
Start Time:	
Issues Discussed:	
1.	6.
2.	7.
3.	8.
4.	9.
5.	10.
ATTENDEES	
Print Name and Company	Signature
Meeting Conducted by:	Signature:
Name (Site Health and Safety Coordinator):	Signature:



Discussion Ideas for the Production Health and Safety Meeting

- Emergency response plan, emergency vehicle (full of fuel) and muster point.
- Route to medical aid (hospital or other facility).
- Work hours, is night work planned?
- Hand signals around heavy equipment.
- Traffic control.
- Pertinent Regulations.
- Above and below ground utilities (energized or de-energized).
- Material Safety Data Sheets (MSDS).
- To who, what, why, and when to report an incident.
- Fire extinguisher and first-aid kit locations.
- Excavations, trenching sloping and shoring.
- Personal Protective Equipment (PPE) and training.
- Safety equipment and training.
- Emergency telephone and telephone numbers (may not be 911).
- Eye wash stations and washroom locations.
- Energy lock-out/tag-out procedures. Location of "kill Switches" etc.
- Weather restrictions.
- Site security. Site hazards. Is special/hazardous waste present?
- Traffic and people movements.
- Working around machinery (both static and mobile).
- Sources of ignition, static electricity etc.
- Stings, bites, large animals and other naturally related injuries.
- Working above grade.
- Working at isolated sites.
- Decontamination procedures (both personnel and equipment).
- Falls, trips, sprains and lifting injuries (how to prevent).
- Right to refuse unsafe work.
- Adjacent property issues (residence, business, school, daycare center).



ATTACHMENT 2—INCIDENT INVESTIGATION PROCEDURE AND REPORTING FORMS



Incident Investigation Procedure

When an incident occurs, the investigator must act quickly. No two situations are alike, but normally the following is correct.

- A. Attend to the injured employee.
- B. Secure the accident scene.
- C. Notify your immediate supervisor.

The amount of action will depend on the severity of the accident. Follow established company procedure. Begin your investigation as soon as possible.

Be objective. Don't let emotions or your own opinions cloud your investigation. Proceed as follows:

- A. Interview everyone who saw or was involved in the accident, including the victim (may have to be done at a later date). Use this procedure.
 - 1. Put them at ease. Explain that you are finding facts. Not placing fault.
 - 2. Interview "on the spot" if possible.
 - 3. Interview each person separately, group interviews create confusion.
 - 4. Encourage the person to tell "what they saw."
 - 5. Ask open-ended questions: "What? How? Where? When?"
 - 6. Repeat the story back for confirmation.
 - 7. End on a positive note.
 - 8. Keep the pipeline open. Some individuals remember important facts later.
- B. Observe the accident scene. Look for obvious defects in equipment, tools, and the object causing the injury. In some cases, photos or drawings may help.
- C. Record critical information promptly, do not delay. Use a prepared form to help remember key questions.
- D. Gather facts, not opinions. Use them to identify activities that contributed to the accident.
- E. Make conclusions based on facts and knowledge, not suppositions.
- F. Make recommendations to correct physical hazards, revise job procedures, and identify employee training needs.



Questions to Ask

There are certain key questions that will help a foreman to complete a thorough investigation. The following will work in many instances:

1. What was the victim doing at the time of the accident?
2. Was the victim authorized and qualified to do this operation?
3. Were approved procedures being followed?
4. Was the victim familiar with the job and procedures?
5. Is the job or process new to the area?
6. Were proper tools or equipment being used?
7. Was the proper supervision being provided?
8. Had the victim received hazard potential training prior to the accident?
9. What was the location of the accident?
10. What was the physical condition of the area when the accident occurred?
11. What were witnesses doing at the time of the accident?
12. What immediate or temporary action could have prevented the accident or minimized its effect?
13. What long-term or permanent action could have prevented the accident or minimized its effect?
14. Had corrective action been recommended in the past but not adopted?

Other questions may be needed—depending on the accident.



Investigation Tools Checklist

- Bound notebook
- Clipboard/pad, pens, and pencils
- Graph paper
- Paint stick (yellow/black)
- Chalk (yellow/white)
- Camera, with film and flash
- Video camera with tape
- Cassette recorder and spare cassette tapes
- Straight edge rule for scale reference in photos
- Tape measure (preferably 100 foot)
- Scotch, masking, and duct tape
- High-visibility plastic tape to demarcate area
- Identification tags
- Flashlight
- First-aid kit
- Appropriate Personal Protective Equipment (PPE)
- Sturdy gloves
- Specimen containers
- Hazard monitoring equipment
- Accident investigator's checklist and report forms
- Interview or statement forms



Incident Report Form

Part 1 GENERAL INFORMATION

Who was involved _____ Age ____ Dept. _____
Last First MI

Employee # _____ Sex: M F Employment Status: P/T F/T Temporary Shift _____

Date of Accident ___/___/___ Time _____ AM or PM Location _____

Job _____ Activity at Time of Accident _____

Part 2 DESCRIPTION OF INCIDENT

Witnesses: _____

Part 3 WHAT WAS THE CAUSE OF THE INCIDENT?

Determine the cause by analyzing all the contributing factors if a person, machine, or other physical condition was involved. Find out **HOW** and **WHY**.

A. Describe any *UNSAFE* acts:



B. Describe any *UNSAFE* conditions:

C. Describe the *FUNDAMENTAL INCIDENT CAUSE*:

Part 4 WHAT CORRECTIVE ACTIONS WILL BE TAKEN?

What have you done or what do you recommend changing or modifying to prevent the recurrence of a similar accident?

Has it been done? Yes No If Not, Why? Explain _____

_____/_____/_____
Supervisor/Investigator Signature Date Reviewed and Approved By



ATTACHMENT 3—MATERIAL SAFETY DATA SHEET (MSDS)

The Material Safety Data Sheet (MSDS) will be available as materials come from the vendor and Lee & Ryan mobilizes to the Site. The MSDS sheets will be on-site and accessible at all times.



ATTACHMENT 4—ACTIVITY HAZARD ANALYSIS

Activity Hazard Analysis (AHA)

Activity/Work Task: Project Mobilization/demobilization	Overall Risk Assessment Code (RAC) (Use highest code)				H	
Project Location: Sheboygan, WI	Risk Assessment Code (RAC) Matrix					
Contract Number:	Severity	Probability				
Date Prepared: 07/25/2012		Frequent	Likely	Occasional	Seldom	Unlikely
Prepared by (Name/Title): Mike Jeffries, SSHO	Catastrophic	E	E	H	H	M
	Critical	E	H	H	M	L
Reviewed by (Name/Title): Jack Moorman, HS Dir	Marginal	H	M	M	L	L
	Negligible	M	L	L	L	L
Notes: (Field Notes, Review Comments, etc.) This includes mobilization for the drilling rig and concrete pad removal	Step 1: Review each "Hazard" with identified safety "Controls" and determine RAC (See above)					
	"Probability" is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom or Unlikely.				RAC Chart	
	"Severity" is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible				E = Extremely High Risk	
	Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA.				H = High Risk	
		M = Moderate Risk				
		L = Low Risk				
Job Steps	Hazards	Controls				RAC
Moving Equipment	Struck by/Caught Between	1. Class II reflective clothing/PPE must be worn at all times 2. Operators look before moving 3. Ground personnel make eye contact with operator before walking behind or around machines 4. Do not place self between vehicles and stationary materials, buildings or equipment.				H
	Falling from heights	1. 6 ft fall protection rule applies to all situations except when on top of engine compartment of machines				L
	Loading/unloading material	1. Use proper rigging 2. do not overload machines with load 3. following moving equipment rules 4. store material in orderly fashion that it will not tip over or block access/egress				M

<p>Placement of remedial equipment</p> <p>Marking of injection grid points</p>	<p>Struck By</p> <p>Struck by Utility disruption</p>	<p>1. Class II reflective clothing/PPE must be worn at all times 2. Operators look before moving 3. Ground personnel make eye contact with operator before walking behind or around trailer or equipment</p> <p>Use proper tool for hammering or placing of stakes. Ensure utilities have been marked</p>	<p>H</p> <p>L</p>
<p>Equipment to be Used</p>	<p>Training Requirements/Competent or Qualified Personnel name(s)</p>	<p>Inspection Requirements</p>	
<p>Excavator Generator Full body harness w/lanyard 5 mA GFCI First aid kit Fire extinguisher ANSI safety boots Power cords Safety eyewear Gloves Hardhat Respiratory protection as needed High Visibility clothing</p>	<p>30 Hour OSHA construction-Supervisors 10 hour OSHA construction – L&R employees Site indoc safety - all First aid/CPR – Supervisors SSHO Fall protection – As needed Pre-job daily briefing - All Qualified equipment operator – Specific operators</p>	<p>SSHO daily inspection Weekly inspections Monthly first aid kit Monthly fire extinguisher Fall protection pre use Heavy equipment pre use Daily power cord GFCI pre use</p>	

Activity Hazard Analysis (AHA)

Activity/Work Task: Excavation/Demolition	Overall Risk Assessment Code (RAC) (Use highest code)				H	
Project Location: Sheboygan, WI	Risk Assessment Code (RAC) Matrix					
Contract Number:	Severity	Probability				
Date Prepared: 07/25/12		Frequent	Likely	Occasional	Seldom	Unlikely
Prepared by (Name/Title): Mike Jeffries, SSHO	Catastrophic	E	E	H	H	M
Reviewed by (Name/Title): Jack Moorman, HS Dir	Critical	E	H	H	M	L
	Marginal	H	M	M	L	L
Notes: (Field Notes, Review Comments, etc.) For use when digging, excavating and moving dirt	Negligible	M	L	L	L	L
	Step 1: Review each "Hazard" with identified safety "Controls" and determine RAC (See above)					
	"Probability" is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom or Unlikely.				RAC Chart	
	"Severity" is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible				E = Extremely High Risk	
Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA.				H = High Risk		
				M = Moderate Risk		
				L = Low Risk		
Job Steps	Hazards	Controls			RAC	
Moving Equipment	Struck by/Caught Between	1. Class II reflective clothing/PPE must be worn at all times 2. Operators look before moving 3. Ground personnel make eye contact with operator before walking behind or around machines 4. Do not place self between vehicles and stationary materials, buildings or equipment.			M	
Loading/unloading equipment	Stuck by, strains,	1. Use proper rigging 2. do not overload machines with load 3. following moving equipment rules 4. store material in orderly fashion that it will not tip over or block access/egress			M	
Manual material Lifting	Strains					

Demolition / jackhammer	Struck by, shaking, noise	<ol style="list-style-type: none"> 1. Personnel shall ensure that they observe proper lifting techniques and shall minimize movements such as over reaching, bending and twisting. 2. Personnel shall not lift more than 50 lbs. without help from a co-worker(s) or mechanical assistance. 3. Use a dolly or other mechanical method when practical. 	M
Excavation	Existing Utilities,	<ol style="list-style-type: none"> 1. Operate jack hammer in accordance with operator manual 2. Only certified / competent operators are allowed in area 3. Use barrier tape to section off work area 4. Only trained employees allowed in demolition area 5. Spotter will ensure area remains free of unauthorized people and inform operator of unseen/unheard hazards 6. Operator and all employees in area will wear hearing protection. 7. Operator will wear gloves, preferably with cushioned palms 	H
		<ol style="list-style-type: none"> 1. Excavation work to be conducted under the supervisor of the competent person. 2. Identify the location of any subsurface obstructions. 3. Protect/support exposed subsurface installations. 4. Excavate by hand within 2 feet of active underground installations to locate them. 5. Use nonconductive tools within 2 feet of energized direct buried cable. 	L
		<ol style="list-style-type: none"> 1. Personnel shall ensure that they observe proper lifting 	

	Manual Lifting Hazards	<p>techniques and shall minimize movements such as over reaching, bending and twisting.</p> <ol style="list-style-type: none"> 2. Personnel shall not lift more than 50 lbs. without help from a co-worker(s) or mechanical assistance. 3. Use a dolly or other mechanical method to move drums of soil/water that are generated. 	M
	Inclement Weather	<ol style="list-style-type: none"> 1. Job activity will be shut down if weather poses imminent danger. 2. Inspect excavations a minimum of each shift to ensure soil cohesion and identify any adverse conditions. 	L
	Sides of excavation can cave in	<ol style="list-style-type: none"> 1. Excavation work to be conducted under the supervisor of the competent person. 2. Protect against fall into trench where depths exceed 6 feet. 3. Erect barricades, stop logs, and/or warning signals where mobile equipment operators have obstructed view of the excavation edge. 4. Complete initial and daily Competent Person Inspections. 5. Determine soil type. Use protective support system (sloping, shoring, shielding) where Competent Person identifies cave-in potential. 6. Provide means of egress (ladder, ramp, stairway) for every 25 feet of travel where depths are 4 feet or greater. 7. Conduct pre-job walk down with excavation crew. 8. Implement dust control measures as necessary. 9. Protect workers from loose and falling rock along the excavation face. 	M

	Falls in or around the excavation	<ol style="list-style-type: none">10. Shore or brace adjoining structures to prevent shifting/collapse.11. Regularly inspect trenches for conditions. <ol style="list-style-type: none">1. Assign a Competent Person to the Excavation Work.2. Protect against fall into trench where depths exceed 6 feet.3. Ensure that all personnel entering the excavation or working within 6 feet of the excavation have received excavation safety training.4. Regularly inspect trenches for conditions.	M
	Heavy equipment	<ol style="list-style-type: none">1. Perform equipment inspections prior to use. Make repairs as necessary. Never use damaged or comprised equipment.2. Implements must be lowered to ground and the parking brake engaged when not in use.3. Equipment must be equipped with seat belts, rollover protective structures, back up alarms, and a minimum 5BC fire extinguisher.4. Level D PPE including reflective vests must be worn when working in and around heavy equipment.5. Do not enter the swing radius of heavy equipment. Never approach heavy equipment from a blind spot. Make eye contact with operator and receive approval before approaching heavy equipment.6. Use spotters and flagmen when loading and unloading heavy equipment.7. Never stand under a suspended load or ride double on heavy equipment. <ol style="list-style-type: none">1. Inspect haul truck prior to use. Make repairs as necessary. Do not use damaged or comprised	

	Haul trucks	<p>equipment.</p> <ol style="list-style-type: none"> 2. Remain in the cab of the truck when being loaded. 3. Use audible signs to communicate with equipment operators. 4. Observe local traffic laws. 5. Remove loose debris from tailgate prior to leaving site. 	L
Equipment to be Used	Training Requirements/Competent or Qualified Personnel name(s)	Inspection Requirements	
Backhoe First aid kit Fire extinguisher ANSI safety boots Power cords Safety eyewear Gloves Hardhat Respiratory protection as needed Hearing protection Barricade tape High Visibility clothing	30 Hour OSHA construction-Supervisors 10 hour OSHA construction – L&R employees Site indoc safety - all First aid/CPR – Supervisors SSHO Fall protection – As needed Pre-job daily briefing - All Qualified equipment operator – Specific operators	Monthly first aid kit Injection equipment pre use GFCI pre use MSDS for contaminants DOT dump truck pre-haul inspection	

Activity Hazard Analysis

Project: Sheboygan River Restoration		Contract No.:
Date: 7/25/2012	Estimated Start Date:	Location: Sheboygan River
Project Manager Review/Date: Brian Morgan		Analyzed By: Mike Jeffries
PHASE OF WORK	POTENTIAL HAZARDS	RECOMMENDED CONTROLS
Wastewater Treatment	Fires	<ol style="list-style-type: none"> 1. Fire extinguishers to be maintained of appropriate size and type (Minimum 10A:60BC required). Fire extinguishers are to be kept inside the trailer. 2. Personnel potentially utilizing fire extinguishers must be adequately trained. 3. Do not obstruct access to fire hydrants and/or work zone evacuation routes. 4. Inspect fire extinguishers monthly. 5. Fires will be reported immediately to the local fire department. . 6. Discuss emergency evacuation procedures for each work area in Daily Tailgate Safety Meetings. 7. Fuel must be stored in safety cans with flame arrestors. 8. Bonding or grounding is required during fuel transfer. 9. Fuel storage areas must be marked with no smoking and no open flame signs.
	Slip/Trip Hazards	<ol style="list-style-type: none"> 1. Remove hoses on floors and ground, store on reels when not in use. 2. Use provided stairs to get in and out of trailers. (3 points of contact). 3. Potential for water, sand, carbon, etc... on floor, sweep frequently and mop when puddling occurs. 4. Watch out for secondary containment leaks, report leaks immediately and reroute system if needed to repair problem. 5. Do not climb on top of system over 6 feet high without fall protection or rail system in place.

Activity Hazard Analysis

Project: Sheboygan River Restoration		Contract No.:
Date: 7/25/2012	Estimated Start Date:	Location: Sheboygan River
Project Manager Review/Date: Brian Morgan		Analyzed By: Mike Jeffries
PHASE OF WORK	POTENTIAL HAZARDS	RECOMMENDED CONTROLS
	Back Injuries/physical injuries	<ol style="list-style-type: none"> 1. Safe lifting techniques must be used to avoid back injuries. 2. Two people or mechanical means will be used to move heavy loads. 3. Personnel will use heavy leather work gloves. 4. Wear eye protection when working on system. Wear face shield when working on wet areas that could be splash hazard. 5. Use proper chemical resistant PPE per MSDS.
	Electrical Hazards	<ol style="list-style-type: none"> 1. Never open panel while generator is running. 2. Replace frayed wiring. 3. Watch for wires and cords in wet areas. 4. Lock out/ tag out for service or maintenance
Wastewater Treatment (Continued)	Hand Tools	<ol style="list-style-type: none"> 1. Operate according to the manufacturer's instructions. 2. Associates will be familiar with the proper use of the tool being used. 3. Tools will be maintained according to manufacturer's recommendations. 4. Tools will be inspected before each use. 5. Damaged or defective tools will be placed out of operation until repaired or replaced. 6. Secure work with clamps or a vise, freeing both hands to operate the tool. 7. Be sure to keep good footing and maintain good balance. 8. Work areas should be well lighted and free of obstructions and potential hazards. 9. Use the right tool for the job.

Activity Hazard Analysis

Project: Sheboygan River Restoration		Contract No.:
Date: 7/25/2012	Estimated Start Date:	Location: Sheboygan River
Project Manager Review/Date: Brian Morgan		Analyzed By: Mike Jeffries
PHASE OF WORK	POTENTIAL HAZARDS	RECOMMENDED CONTROLS
	Pumps	<ol style="list-style-type: none"> 1. Watch for moving parts, do not remove covers when engine is running. 2. Do not wear loose clothing or jewelry around operating machinery. 3. Lock out/tag out required before servicing. 4. Ensure all pinch points and rotating parts are guarded and guards are replaced after maintenance. 5. Ensure pressure is released from system prior to cracking pump seals. 6. Use cut resistant gloves when checking interior/blind surfaces or pump body.
	Manual Lifting Hazards	<ol style="list-style-type: none"> 1. Personnel shall ensure that they observe proper lifting techniques and shall minimize movements such as over reaching, bending and twisting. 2. Personnel shall not lift more than 50 lbs. without help from a co-worker(s) or mechanical assistance. 3. Use a dolly or other mechanical method when practical.
	Traffic Hazards	<ol style="list-style-type: none"> 1. Vehicle drivers shall obey posted site speed limits, stop signs, wear seat belts and observe legal driving practices. 2. Implement traffic control devices and flaggers when required. Use spotters to position trailers and when loading/unloading heavy equipment. 3. Wear Class II reflective vest when working in and around heavy equipment or flagging.

Activity Hazard Analysis

Project: Sheboygan River Restoration		Contract No.:
Date: 7/25/2012	Estimated Start Date:	Location: Sheboygan River
Project Manager Review/Date: Brian Morgan		Analyzed By: Mike Jeffries
PHASE OF WORK	POTENTIAL HAZARDS	RECOMMENDED CONTROLS
	Noise Hazard	<ol style="list-style-type: none"> 1. When associates are subjected to sound exceeding 90 decibels, feasible administrative or engineering controls shall be utilized. 2. If such controls fail to reduce sound levels to acceptable levels, personal protective equipment shall be provided and used to reduce sound levels. 3. All observers should be kept at a safe distance away from the work area. 4. Hearing protection will be available and used when needed.

Activity Hazard Analysis Review Record

Activity _____

Supervisor Name: _____

Date/Time: _____

Safety Officer Name: _____

Date/Time: _____

Employee Name(s): _____

Date/Time: _____

Print Name	Sign	Date	Time

ATTACHMENT 5—DAILY INSPECTION AND REPORT FORMS

DAILY LOG



CONTRACT NO. _____

DATE _____

L&R PROJECT No. _____

DAY _____

PROJECT NAME _____

LOCATION SUMMARY _____

WEATHER

TEMPERATURE	8 A.M.	
	NOON	
	4 P.M.	
PRECIPITATION	TYPE	
	INCH	

LEE & RYAN

EMPLOYEE NAME	CLASSIFICATION	LOCATION/DESCRIPTION OF WORK	HOURS

SUBCONTRACTORS

CONTRACTOR	EMPLOYEE NAME	CLASSIFICATION	LOCATION/DESCRIPTION OF WORK	HOURS

KEY ACTIVITIES		MILESTONES HIT	
MATERIALS DELIVERED		EQUIPMENT DELIVERED/RETURNED	
TESTS/INSPECTIONS		UNRESOLVED ISSUES/DELAYS	
HOT WORK ACTIVITIES		ICRA EVENTS	
ACCIDENTS/INJURIES		VISITORS TO THE SITE	
<hr/>			

Other General Notes:

SUPERINTENDENT SIGNATURE

Daily Safety Inspection Report

JOB _____ **DATE** _____ **INSPECTOR** _____

Item	Yes	No	N/A	Description
1				Tools and materials are placed in storage/toolbox
2				Trash and scrap has been properly disposed in trash receptacles
3				Differing Site Conditions: If applicable, all smoke and dust controls barriers will be in place and approved by infection control and safety prior to beginning of work or any demolition work
4				Employees and Contractors have received safety briefing of upcoming day's work
5				Employees are wearing proper PPE at proper times
6				Safety Observation Communication Reports have been identified, inspected and corrected
7				AHA/JHA/JSA has been reviewed prior to starting new task
8				MSDSs are available and current
9				Barriers, signs, and guards are in place to prevent entry from unauthorized people
10				GFCIs used in damp locations/outdoor areas
11				Fire extinguishers accessible near hot work areas
12				Schedule of Work Progress
13				Hazardous materials in cabinet when not in use
14				Hazardous materials are labeled
15				Gas cylinders capped when not in use and stored correctly when not in use for 24 hours
Other safety issues not covered				

Weekly Safety Inspection Report

Job Name: _____ **Inspected by:** _____ **Date:** _____

1. Job Information

Description	Yes	No
Telephone number for the nearest medical center posted?		
Are Weekly Safety Meetings up to date?		
Work areas properly signed and barricaded?		
Is each employee instructed in the recognition and avoidance of unsafe conditions?		
Are first aid supplies readily accessible?		
Are telephone numbers, physicians, hospitals and ambulances conspicuously posted?		
Are potable drinking water and toilet facilities available at the site?		
Is work area generally orderly?		
Are AHAs/JHAs available and accessible to all employees?		

Notes and Corrective Actions:

2. Fire Prevention

Description	Yes	No
Are adequate fire extinguishers, checked and accessible?		
Is the telephone number of fire department posted?		
Are "No Smoking" signs posted and enforced near flammables?		

Notes and Corrective Actions:

3. Hand, Power & Powder Actuated Tools

Description	Yes	No
Are hand tools inspected regularly for broken handles and mushroom heads?		
Are guards in place on machines, such as saws?		
Are the correct tools being used for job at hand?		
Are operators of powder actuated tools licensed?		

Notes and Corrective Actions:

4. Personal Protective Equipment

Description	Yes	No
Are hard hats being worn?		
Are safety glasses being worn?		
Are respirators used when required?		
Is protective hearing gear being worn when required?		
Are traffic vests being worn?		

Notes and Corrective Actions:

5. Vehicles

Description	Yes	No
Do vehicles and earth moving equipment with an obstructed view to the rear have a backup alarm or used with an observer?		
Do vehicles and earth moving equipment have seat belts and are they used?		
Are flagmen wearing reflectorized garments and using flags, sign paddles, or lights?		

Notes & Corrective Actions:

6. Unsafe Acts or Practices Observed

Description	Yes	No

Notes and Corrective Actions:

Signature _____ Date _____

For detailed information on Construction Standards for the Construction Industry see the OSHA Standards at 29 CFR Part 1926.

**ATTACHMENT 6—SITE-SPECIFIC HEALTH AND SAFETY PLAN
ACKNOWLEDGEMENT AND SIGN-IN SHEET**

Site Specific Health and Safety Plan Acknowledgement and Sign-In Sheet

Sheboygan River Habitat Restoration

The designated Lee & Ryan representative will be responsible for informing all individuals entering the work zone of the contents of this Plan and ensuring that each person signs the following acknowledgement form. By signing this form, individuals recognize the hazards present on the project site and the policies and procedures required to minimize exposure and risk of these hazards.

I have read the Site Specific Health and Safety Plan, have been briefed on the hazards on the project site and fully understand the contents of the Plan.

Printed Name	Signature	Company Represented	Date