
THE VILLAGE OF TINLEY PARK
Cook County, Illinois
Will County, Illinois

RESOLUTION
NO. 2020-R-053

**A RESOLUTION APPROVING A JOC CONTRACT BETWEEN THE
VILLAGE OF TINLEY PARK AND GORDIAN/F.H. PASCHEN, S.N. NIELSEN
& ASSOCIATES FOR THE 80TH AVE. TRAIN STATION STAIRCASES,
RAILINGS, CONCRETE, LANDSCAPING AND PAVER
REPLACEMENT/REPAIRS**

JACOB C. VANDENBERG, PRESIDENT
KRISTIN A. THIRION, VILLAGE CLERK

CYNTHIA A. BERG
WILLIAM P. BRADY
WILLIAM A. BRENNAN
DIANE M. GALANTE
MICHAEL W. GLOTZ
MICHAEL G. MUELLER
Board of Trustees

RESOLUTION NO. 2020-R-053

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VILLAGE OF TINLEY PARK AND GORDIAN/F.H. PASCHEN, S.N. NIELSEN
& ASSOCIATES FOR THE 80TH AVE. TRAIN STATION STAIRCASES,
RAILINGS, CONCRETE, LANDSCAPING AND PAVER
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WHEREAS, the Village of Tinley Park, Cook and Will Counties, Illinois, is a Home Rule Unit pursuant to the Illinois Constitution of 1970; and

WHEREAS, the Corporate Authorities of the Village of Tinley Park, Cook and Will Counties, Illinois, have considered entering into an Agreement with Traffic Control Company, a true and correct copy of such Agreement being attached hereto and made a part hereof as **EXHIBIT 1**; and

WHEREAS, the Corporate Authorities of the Village of Tinley Park, Cook and Will Counties, Illinois, have determined that it is in the best interests of said Village of Tinley Park that said Agreement be entered into by the Village of Tinley Park;

NOW, THEREFORE, Be It Resolved by the President and Board of Trustees of the Village of Tinley Park, Cook and Will Counties, Illinois, as follows:

Section 1: The Preambles hereto are hereby made a part of, and operative provisions of, this Resolution as fully as if completely repeated at length herein.

Section 2: That this President and Board of Trustees of the Village of Tinley Park hereby find that it is in the best interests of the Village of Tinley Park and its residents that the aforesaid "Agreement" be entered into and executed by said Village of Tinley Park, with said Agreement to be substantially in the form attached hereto and made a part hereof as **EXHIBIT 1**, subject to review and revision as to form by the Village Attorney.

Section 3: That the President and Clerk of the Village of Tinley Park, Cook and Will Counties, Illinois are hereby authorized to execute for and on behalf of said Village of Tinley Park the aforesaid Agreement.

Section 4: That this Resolution shall take effect from and after its adoption and approval.

ADOPTED this 19th day of May, 2020, by the Corporate Authorities of the Village of Tinley Park

on a roll call vote as follows:

AYES: Berg, Brady, Brennan, Galante, Glotz, Mueller

NAYS: None

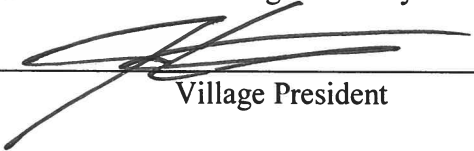
ABSENT: None

APPROVED this 19th day of May, 2020, by the President of the Village of Tinley Park.

ATTEST:



Village Clerk



Village President

STATE OF ILLINOIS)
COUNTY OF COOK) SS
COUNTY OF WILL)

CERTIFICATE

I, KRISTIN A. THIRION, Village Clerk of the Village of Tinley Park, Counties of Cook and Will and State of Illinois, DO HEREBY CERTIFY that the foregoing is a true and correct copy of Resolution No. 2020-R-045, **“A RESOLUTION APPROVING A JOC CONTRACT BETWEEN THE VILLAGE OF TINLEY PARK AND GORDIAN/F.H. PASCHEN, S.N. NIELSEN & ASSOCIATES FOR THE 80TH AVE. TRAIN STATION STAIRCASES, RAILINGS, CONCRETE, LANDSCAPING AND PAVER REPLACEMENT/REPAIRS,”** which was adopted by the President and Board of Trustees of the Village of Tinley Park on May 19, 2020.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of the Village of Tinley Park this 19th day of May, 2020.



KRISTIN A. THIRION, VILLAGE CLERK

EXHIBIT 1

VILLAGE OF TINLEY PARK

SERVICE CONTRACT

This contract is by and between the **Village of Tinley Park**, an Illinois home-rule municipal corporation (the "Village"), and **F.H. Paschen, S.N. Nielsen & Associates LLC** (the "Contractor"), for the project or work described in Exhibit A, attached hereto and made a part hereof.

1. In consideration of the compensation stated in paragraph 2, the Contractor shall provide all the services described in the Scope of Services attached hereto as Exhibit "A" and incorporated herein by reference. The express terms of this Contract shall take precedence and control over any term or provision of the Scope of Services (Exhibit A) that in any way conflicts with, differs from, or attempts to alter the terms of this Contract.
2. Except in the event of a duly authorized change order approved by the Village as provided in this Contract, and in consideration of the Contractor's final completion of all work in conformity with this Contract, the Village shall pay the Contractor an amount not to exceed **Eight Hundred And Three Thousand, Three Hundred Nighty Eight and 47/100 Dollars (803,398.47)** . Within thirty (30) calendar days of completion of the work, the Contractor shall submit his application for payment to the Village, and the Village shall pay Contractor for the work performed no later than **thirty (30)** calendar days from the date of the Village's receipt and the Village's approval of the work and the application for payment. No payment shall be made by the Village until the Contractor has submitted to the Village (i) a Contractor's Affidavit listing all subcontractors and material suppliers utilized on the project and (ii) final waivers of lien from the Contractor, all subcontractors and all material suppliers.
3. No changes shall be made; nor will invoices for changes, alterations, modifications, deviations, or extra work or services be recognized or paid except upon the prior written order from authorized personnel of the Village. The Contractor shall not execute change orders on behalf of the Village or otherwise alter the financial scope of the Project.
4. Written change orders may be approved by the Village Manager or his designee provided that the change order does not increase the amount set forth in paragraph 2 of this Contract to more than \$10,000.00. Changes in excess of this amount must be approved by the Village Board prior to commencement of the services or work. **If a requested change causes an increase or decrease in the cost of or time required for the performance of the contract, Contractor will agree to an equitable adjustment in the contract price or performance schedule, or both. Neither party is obligated to comply with requested changes unless and until both parties execute a written change order.**
5. **Time is of the essence on this Contract.** The Contractor shall complete all work under this Contract by the dates set forth below:
6. No "Notice to Proceed" may be given nor any work commenced until this Contract is fully executed and all exhibits and other attachments are completely filled out and attached hereto.
7. It is understood and agreed by the parties that the Contractor is an independent contractor retained for the above-mentioned purpose. The Village shall not control the manner nor the means of the Contractor's performance, but shall be entitled to a work product as described herein. The term "subcontractor" shall mean and include only those hired by and having a direct contract with Contractor for performance of work on the Project. The

Village shall have no responsibility to any subcontractor employed by a Contractor for performance of work on the Project, and all subcontractors and material suppliers shall look exclusively to the Contractor for any payments due. The Village will not be responsible for reporting or paying employment taxes or other similar levies that may be required by the United States Internal Revenue Service or other State or Federal agencies. Every subcontractor shall be bound by the terms and provisions of this Contract as far as applicable to their work. The Contractor shall be fully responsible to the Village for the acts and omissions of its subcontractors, and shall ensure that any subcontractors perform in accordance with the requirements of this Contract. Nothing contained herein shall create any contractual or employment relations between any subcontractor and the Village. The Contractor is solely responsible for the safety procedures, programs and methods of its employees and agents and shall hold the Village harmless for any and all damages resulting from violations thereof. The Contractor shall comply with all applicable federal, State and local safety laws and regulations.

8. **It is further agreed that the Contractor shall indemnify, hold harmless, and defend the Village, its officers, agents, and employees from and against any and all claims, losses, damages, causes of action, suits, and liability of every kind, including all expenses of litigation, court costs, and attorneys' fees, for injury to or death of any person or for damage to any property arising out of or in connection with the Contractor's negligence under this Contract.**
9. **The Contractor assumes full responsibility for the work to be performed hereunder and hereby releases, relinquishes, and discharges the Village, its officers, agents, and employees from all claims, demands, and causes of action of every kind and character, including the cost of defense thereof, for any injury to or death of any person and any loss of or damage to any property that is caused by, alleged to be caused by, arising out of, or in connection with the Contractor's negligence in its work to be performed hereunder. The Contractor shall maintain insurance coverage in an amount and from a carrier suitable to the Village, and the Village shall be named as an additional insured where required. Certificates of Insurance are attached hereto as Exhibit B.**
10. The Village is exempt from payment of state and local sales and use of taxes on labor and materials incorporated into the project. If necessary, it is the Contractor's responsibility to obtain a sales tax permit, resale certificate, and exemption certificate that shall enable the Contractor to buy any materials to be incorporated into the project and then resale the aforementioned materials to the Village without paying the tax on the materials at the time of purchase. In no event will the Village be liable for or pay any sales or use taxes incurred by the Contractor in performing the services under this contract.
11. The Contractor shall comply with all applicable federal, state, and local statutes, regulations, ordinances, and other laws, including but not limited to the Immigration Reform and Control Act (IRCA). The Contractor may not knowingly obtain the labor or services of an unauthorized alien. The Contractor, not the Village, must verify eligibility for employment as required by IRCA.
12. At any time, the Village may terminate this Contract for convenience, upon written notice to the Contractor. The Contractor shall cease work immediately upon receipt of such notice. The Contractor shall be compensated for services performed and accepted by the Village up to the date of termination.

13. No waiver or deferral by either party of any term or condition of this Contract shall be deemed or construed to be a waiver or deferral of any other term or condition or subsequent waiver or deferral of the same term or condition.
14. This Contract may only be amended by written instrument approved and executed by the parties.
15. This Contract and the rights and obligations contained herein may not be assigned by the Contractor without the prior written approval of Village.
16. The parties hereby state that they have read and understand the terms of this Contract and hereby agree to the conditions contained herein.
17. This Contract has been made under and shall be governed by the laws of the State of Illinois. The parties agree that performance and all matters related thereto shall be in Cook County, Illinois.
18. Contractor, its employees, associates or subcontractors shall perform all the work hereunder. Contractor agrees that all of its associates, employees, or subcontractors who work on this Project shall be fully qualified and competent to do the work described hereunder. Contractor shall undertake the work and complete it in a timely manner.
19. If any provision of this Contract shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court of competent jurisdiction finds that any provision of this Contract is invalid or unenforceable, but that by limiting such provision it may become valid and enforceable, then such provision shall be deemed to be written, construed, and enforced as so limited.
20. This Contract represents the entire and integrated agreement between the Village and Contractor and supersedes all prior negotiations, representations, or agreements, either written or oral.
21. This Contract will be effective when signed by the last party whose signing makes the Contract fully executed.
22. The Contractor agrees to comply with the Illinois Prevailing Wage Act, if the work to be performed under this Contract is covered by said Act.
23. The Contractor agrees to comply with the Illinois Substance Abuse Prevention on Public Works Projects Act.

CERTIFICATIONS BY CONTRACTOR

Affidavit of Compliance

Contractor and all subcontractors shall complete this Affidavit of Compliance ("Affidavit") and submit supporting documentation as required pursuant to *Responsible Bidder Requirements on Public Work Projects*. Contractor must submit this Affidavit and all related evidence with its bid. Contractor shall be responsible for providing this Affidavit to all subcontractors who will perform work on the project. All subcontractors' Affidavits and supporting documentation must be submitted no later than the date and time of the contract award. Failure to comply with all submission requirements may result in a determination that the Contractor is not a responsible bidder.

For the remainder of this Affidavit, "Contractor" refers to the general contractor and all subcontractors. Each item must be answered. If the question is not applicable, answer "NA." If the answer is none, answer "none."

The certifications set forth in this Affidavit and all documents attached hereto shall become a part of any contract awarded to the Contractor. Furthermore, Contractor shall comply with these certifications during the term and/or performance of the contract.

The undersigned Anthony Izzi, as Authorized Agent and on behalf
(Name) (Title)
of F.H. Paschen, S.N. Nielsen & Associates having been duly sworn under oath certifies that:
(Contractor)

Business Organization

The form of business organization of the Contractor is (check one):

Sole Proprietor or Partnership LLC
 Corporation Independent Contractor (Individual)

If contractor/subcontractor is a corporation, indicate the state and the date of incorporation:

Authorized to do business in the State of Illinois: Yes [] No []

Describe supporting documentation attached: _____

Federal Employer I.D. #: 36-4518443

Social Security # (if an individual or sole proprietor): _____

Registered with Illinois Department of Revenue: Yes No

Describe supporting documentation attached (if "No," explain): _____

Registered with Illinois Department of Employment Security: Yes No

Describe supporting documentation attached (if "No," explain): _____

Tax liens or tax delinquencies

Disclosure of any federal, state or local tax liens or tax delinquencies against the contractor of any officers of the contractor in the last five (5) years Yes No

"No" means "not applicable." If "yes," describe lien/delinquencies and resolution:

EOE Compliance

Contractor is in compliance with provisions of Section 2000e of Chapter 21, Title 42 of the United States Code and Federal Executive Order No. 11246 as amended by Executive Order No. 11375 (known as the Equal Opportunity Employer provisions). Yes No

Employee Classification

Contractor's employees who will perform work on the project are properly classified as an employee or independent contractor under all applicable state and federal laws and local ordinances (Form B). N/A Yes No

Professional or Trade Licenses

Contractor will possess all applicable professional and trade licenses required for performing the Contract work: Yes No

License	Number	Date Issued	Current Expiration	Holder of License
General Contractor	C-014588	2/4/2020	2/3/2021	Village of Tinley Park

If any of the above license(s) have been revoked or suspended, state the date and reason for suspension/revocation:

Documentation Attached (Contractor must initial next to each item):

AT Form A: Name and address of subcontractors from whom Contractor has accepted a bid or intends to hire to perform work on any part of the project.
NOTE: All subcontractors shall complete and submit an Affidavit of Compliance no later than the date the subcontractor commences work on the project.

AD Form B: List of individuals who will perform work on the project on behalf of the Contractor, verifying that each individual is properly classified as an employee or independent contractor. Contractor also verifies that all Contractor's employees are covered under a current workers' compensation policy, properly classified under the workers' compensation policy, and covered by a health and welfare and retirement plan.

AT Form C Additional Information (if required)

AT Certificate of Good Standing
(or other evidence of compliance with laws pre-requisite to doing business in the state)

AT Illinois Department of Revenue registration

AT Illinois Department of Employment Security registration

AT Standards of Apprenticeship/Apprentice Agreements

AT Substance Abuse Prevention program (or applicable provision from CBA in effect)

AT Written Safety Policy Statement signed by company representative

— OSHA cards evidencing 10-hour or greater safety program completed, if requested

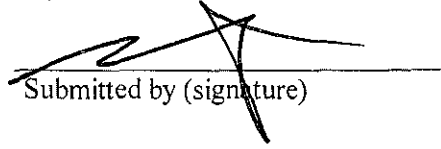
AT Workers' Compensation Coverage

AT Professional or Trade Licenses

Eligibility to Contract

The undersigned hereby certifies that the Contractor is not barred from bidding on or entering into this contractor as a result of a violation of either the bid-rigging or bid-rotating provisions of Article 33E of the Criminal Code of 1961, as amended.

F.H. Paschen, S.N. Nielsen & Associates LLC
Name of Contractor (please print)

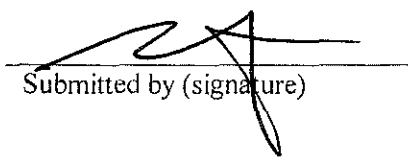

Submitted by (signature)

Anthony Izzi, Authorized Agent
Title

Certificate of Compliance with Illinois Human Rights Act

The undersigned hereby certifies that the Contractor is in compliance with Title 7 of the 1964 Civil Rights Act as amended and the Illinois Human Rights Act as amended.

F.H. Paschen, S.N. Nielsen & Associates LLC
Name of Contractor (please print)

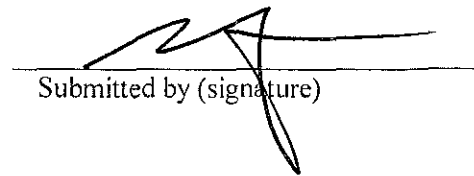

Submitted by (signature)

Anthony Izzi, Authorized Agent
Title

Certificate of Compliance with Illinois Drug-Free Workplace Act

The undersigned, **having 25 or more employees**, does hereby certify pursuant to section 3 of the Illinois Drug Free Workplace Act (30 ILCS 580/3) that it shall provide a drug-free workplace for all employees engaged in the performance of the work under the contract by complying with the requirements of the Illinois Drug-Free Workplace Act and, further certifies, that it is not ineligible for award of this contract by reason of debarment for a violation of the Illinois Drug-Free Workplace Act.

F.H. Paschen, S.N. Nielsen & Associates LLC
Name of Contractor (please print)

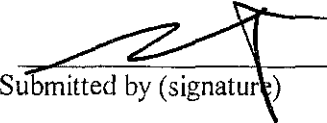

Submitted by (signature)

Anthony Izzi, Authorized Agent
Title

Certificate Regarding Sexual Harassment Policy

The undersigned does hereby certify pursuant to section 2-105 of the Illinois Human Rights Act (775 ILCS 5/2-105) that it has a written sexual harassment policy that includes, at a minimum, the following information: (i) the illegality of sexual harassment; (ii) the definition of sexual harassment under State law; (iii) a description of sexual harassment, utilizing examples; (iv) an internal complaint process including penalties; (v) the legal recourse, investigative and complaint process available through the Department of Human Rights and Human Rights Commission; (vi) direction on how to contact the Department of Human Rights and Human Rights Commission; and (vii) protection against retaliation.

F.H. Paschen, S.N. Nielsen & Associates LLC
Name of Contractor (please print)


Submitted by (signature)

Anthony Izzi, Authorized Agent
Title

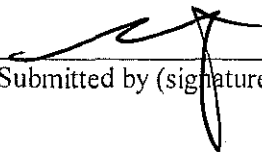
Certificate of Compliance with Substance Abuse Prevention on Public Works Projects Act

The undersigned hereby certifies that:

- A. There is in place a written program which meets or exceeds the program requirements of the Substance Abuse Prevention on Public Works Projects Act (P.A. 95-0635), and has provided a written copy thereof to the Village of Tinley Park.
- B. There is in place a collective bargaining agreement which deals with the subject matter of the Substance Abuse Prevention on Public Works Projects Act (P.A. 95-0635)

(Cross out either A or B depending upon which certification is correct)

F.H. Paschen, S.N. Nielsen & Associates LLC
Name of Contractor (please print)


Submitted by (signature)

Anthony Izzi, Authorized Agent
Title

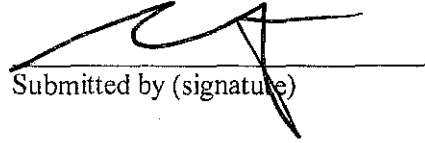
Certificate of Compliance with Prevailing Wage Requirements

The undersigned hereby certifies that:

This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/01 et seq. ("the Act"). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the current "prevailing rate of wages" (hourly cash wages plus amount for fringe benefits) in the county where the work is performed. The Department publishes the prevailing wage rates on its website at <http://www.state.il.us/agency/idol/rates/rates.HTM>. The Department revises the prevailing wage rates and the contractor/subcontractor has an obligation to check the Department's web site for revisions to prevailing wage rates. For information regarding

current prevailing wage rates, please refer to the Illinois Department of Labor's website. All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage requirements and notice and record keeping duties.

F.H. Paschen, S.N. Nielsen & Associates LLC
Name of Contractor (please print)

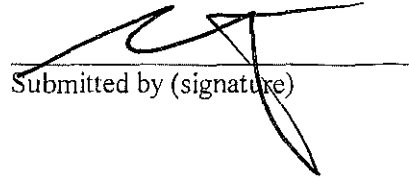

Submitted by (signature)

Anthony Izzi, Authorized Agent
Title

Certificate of Compliance with the Village of Tinley Park Responsible Bidder Ordinance

The undersigned or the entity making the proposal or bid has reviewed and is in compliance with the Village of Tinley Park Responsible Bidder Ordinance No. 2019-O-079

F.H. Paschen, S.N. Nielsen & Associates LLC
Name of Contractor (please print)


Submitted by (signature)

Anthony Izzi, Authorized Agent
Title

[Signature Page to Follow]

F.H. PASCHEN, S.N. NIELSEN & ASSOCIATES LLC
CONTRACTOR NAME

BY:  _____

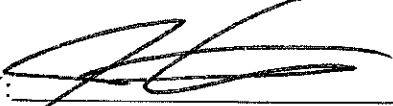
June 8, 2020

Printed Name: Anthony Izz

Date

Title: Authorized Agent & VP

VILLAGE OF TINLEY PARK

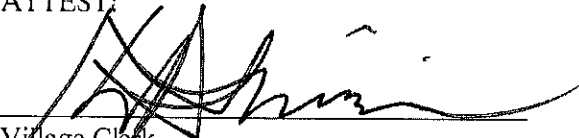
BY:  _____

5-19-2020

Jacob C. Vandenberg, Village President
(required if Contract is \$20,000 or more)

Date

ATTEST:

 _____

5-19-2020

Village Clerk
(required if Contract is \$20,000 or more)

Date

VILLAGE OF TINLEY PARK

BY: _____

Village Manager

Date

SCOPE OF SERVICES

Attached Scope of work for Train Station 3rd and 4th phase railings as detailed in:

- Work Order Number #068496.01 Titled: Village of Tinley Park – Train Station 3rd and 4th phase railings supplemental (Main Front Entrance Staircase, East Ramp/North Tunnel, East Ramp/South Tunnel, West Ramp/North Tunnel, West Ramp/South Tunnel, Staircase Into Building Entrance & Staircase/Railings/Stair Repairs).

Exhibit B

INSURANCE REQUIREMENTS

(See Risk Manager for Insurance Requirements)

Form C

Additional Information Required

If required in the bid specifications, Contractor shall complete items I and/or II below:

Statement of past three (3) years experience on public construction projects.

Public Body/ Project Name/Year	Reference Name/ Phone #	Original Price/ Final price	Subcontractors
See Attached			

List any determinations by a court or governmental agency for violations of federal, state or local laws, including but not limited to violations of contracting or antitrust laws, tax or licensing laws, environmental laws, the Occupational Safety and Health Act (OSHA), the National Labor Relations Act (NLRA), or federal Davis-Bacon and related Acts.

Date	Law	Determination	Penalty

Job Order Contract

Proposal Review Summary - Category

Date: November 12, 2019
Work Order #: 068496.01
Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental
Contractor: 11-082 - F. H. Paschen, S. N. Nielsen & Associates LLC
Proposal Value: \$803,398.47
Proposal Name: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental
Proposal Submitted: 10/29/2019

Alternate #1:	\$62,928.63
East Ramp - North Tunnel:	\$44,437.92
East Ramp - South Tunnel:	\$52,027.17
Main Staircase:	\$70,923.19
No Category Input:	\$-13,821.00
Railings:	\$423,841.96
Stair Repairs:	\$30,140.54
West Ramp - North Tunnel:	\$56,591.57
West Ramp - South Tunnel:	\$76,328.50
Proposal Total	\$803,398.47

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals

The Percent of NPP on this Proposal: **30.88%**

Job Order Contract
Proposal Review Detail - Category

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental
 Contractor: 11-082 - F. H. Paschen, S. N. Nielsen & Associates LLC
 Proposal Value: \$803,398.47
 Proposal Name: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental
 Proposal Submitted: 10/29/2019

Rec#	CSI Number	Mod.	UOM	Description	Line Total
Alternate #1					
1	01 22 23 00-0527		WK	5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	\$4,605.81
			Installation	Quantity 1.00 x Unit Price 3,832.43 x Factor 1.2018 = Total \$4,605.81	
			Contractors Note: Equipment used to haul removed pavers on pallet and then used to bring pavers back to the staircase alternate #1		
2	01 71 13 00-0002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$483.89
			Installation	Quantity 2.00 x Unit Price 201.32 x Factor 1.2018 = Total \$483.89	
			Contractors Note: Mobilize and demobilize concrete equipment at the staircase alternate #1		
3	01 74 13 00-0003		CY	Collect Existing Debris And Load Into Truck Or Dumpster Note: Per CY of debris removed	\$1,061.07
			Installation	Quantity 45.00 x Unit Price 19.62 x Factor 1.2018 = Total \$1,061.07	
			Contractors Note: Load spoils into truck or dumpster at the staircase alternate #1		
4	01 74 19 00-0013		EA	20 CY Dumpster (3 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$459.33
			Installation	Quantity 1.00 x Unit Price 382.20 x Factor 1.2018 = Total \$459.33	
			Contractors Note: Construction debris at the staircase alternate #1		
5	02 41 19 13-0003		SF	Remove Brick Flooring And Salvage	\$683.10
			Installation	Quantity 280.00 x Unit Price 2.03 x Factor 1.2018 = Total \$683.10	
			Contractors Note: Assist in removing / loading pavers onto pallet once they are removed - alternate #1		
6	02 41 19 13-0089		EA	Saw Cut Minimum Charge Note: For projects where the total saw cutting charge is less than the minimum charge. Use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	\$612.03
			Installation	Quantity 1.00 x Unit Price 509.26 x Factor 1.2018 = Total \$612.03	
			Contractors Note: Minimum sawcut charge at alternate #1 staircase		
7	02 41 19 13-0214		IN	3/4" Diameter Drilling In Concrete Per Inch Of Depth	\$670.60
			Installation	Quantity 186.00 x Unit Price 3.00 x Factor 1.2018 = Total \$670.60	
			Contractors Note: Drill into existing concrete slab to install dowels at the staircase alternate #1		

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Alternate #1							
8	02 41 19 13-0261		SF	Up To 6" Thick Concrete Cutouts, Up To 8 SF With Bar Reinforced, Slab On Grade	\$17,197.76		
				Quantity	Unit Price	Factor	Total
			Installation	375.00	x 38.16	x 1.2018	= \$17,197.76
Contractors Note: Sawcut existing concrete at staircase alternate #1 into pieces small enough to haul by hand / concrete buggy to the dumpster.							
9	03 01 30 71-0016		LF	Epoxy Injection, Over 1/4" Wide	\$1,282.32		
				Quantity	Unit Price	Factor	Total
			Installation	20.00	x 53.35	x 1.2018	= \$1,282.32
Contractors Note: Epoxy injection for new dowels at the staircase alternate #1							
10	03 11 13 00-0007		SF	Below Grade Walls Foundation Wood Formwork Note: Excludes footing	\$1,828.66		
				Quantity	Unit Price	Factor	Total
			Installation	160.00	x 9.51	x 1.2018	= \$1,828.66
Contractors Note: Formwork for new staircase alternate #1 foundation footings, walls and frost walls.							
11	03 11 13 00-0007	0001	SF	For Quantities < 1000, Add	\$346.12		
				Quantity	Unit Price	Factor	Total
			Installation	160.00	x 1.80	x 1.2018	= \$346.12
Contractors Note:							
12	03 11 23 00-0002		SF	Cast On Grade Stairway Wood Formwork	\$3,937.10		
				Quantity	Unit Price	Factor	Total
			Installation	240.00	x 13.65	x 1.2018	= \$3,937.10
Contractors Note: Formwork required on both sides of new staircase alternate #1							
13	03 11 23 00-0002	0008	SF	For Quantities < 1000, Add	\$767.23		
				Quantity	Unit Price	Factor	Total
			Installation	240.00	x 2.66	x 1.2018	= \$767.23
Contractors Note:							
14	03 21 13 00-0006		TON	Grade 60 Reinforcing Steel, Footings And Slabs, #3-#6	\$2,660.95		
				Quantity	Unit Price	Factor	Total
			Installation	0.80	x 2,767.67	x 1.2018	= \$2,660.95
Contractors Note: Furnish and install required rebar for the staircase alternate #1							
15	03 21 13 00-0006	0021	TON	For Epoxy Coated, Add	\$877.15		
				Quantity	Unit Price	Factor	Total
			Installation	0.80	x 912.33	x 1.2018	= \$877.15
Contractors Note:							
16	03 21 13 00-0026		EA	Straight Dowels, 5/8" Diameter x 24" Long (16 mm Diameter x 61 cm Long), Deformed	\$85.93		
				Quantity	Unit Price	Factor	Total
			Installation	25.00	x 2.86	x 1.2018	= \$85.93
Contractors Note: Furnish and install new dowels to tie new staircase landing into existing concrete - alternate #1							
17	03 31 13 00-0034		CY	Direct Chute, Place 3000 PSI On Grade Concrete Stairs	\$7,953.48		
				Quantity	Unit Price	Factor	Total
			Installation	27.00	x 245.11	x 1.2018	= \$7,953.48
Contractors Note: Furnish and install new concrete for the staircase alternate #1							

Proposal Review Detail - Category Continued..

Date: November 12, 2019
Work Order #: 068496.01
Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total
Alternate #1					
18	03 31 13 00-0034	0037	CY	For 4000 PSI (280 Kg/Cm2) Concrete, Add	\$288.79
				Installation	
				Quantity	Total
				27.00 x	8.90 x
				Factor	=
				1.2018	=
					\$288.79
Contractors Note:					
19	03 31 13 00-0034	0047	CY	For Quantities > 20 To 50, Add	\$689.21
				Installation	
				Quantity	Total
				27.00 x	21.24 x
				Factor	=
				1.2018	=
					\$689.21
Contractors Note:					
20	03 31 13 00-0062		CY	12" Thick, By Direct Chute, Place 3000 PSI Concrete Walls	\$3,984.21
				Installation	
				Quantity	Total
				20.00 x	165.76 x
				Factor	=
				1.2018	=
					\$3,984.21
Contractors Note: Furnish and install new concrete at foundation footings, foundation walls and frost walls at the staircase alternate #1					
21	03 31 13 00-0062	0037	CY	For 4000 PSI (280 Kg/Cm2) Concrete, Add	\$213.92
				Installation	
				Quantity	Total
				20.00 x	8.90 x
				Factor	=
				1.2018	=
					\$213.92
Contractors Note:					
22	03 31 13 00-0062	0051	CY	For Quantities Up To 20, Add	\$598.50
				Installation	
				Quantity	Total
				20.00 x	24.90 x
				Factor	=
				1.2018	=
					\$598.50
Contractors Note:					
23	03 31 13 00-0086		CY	150' (46 m) Haul, Non-Motorized, Concrete Buggy	\$1,508.26
				Installation	
				Quantity	Total
				50.00 x	25.10 x
				Factor	=
				1.2018	=
					\$1,508.26
Contractors Note: Buggy utilized to haul new and demolished concrete at the staircase alternate #1					
24	03 35 16 00-0005		SF	Concrete Floor Finishes, Steel Trowel	\$626.44
				Installation	
				Quantity	Total
				375.00 x	1.39 x
				Factor	=
				1.2018	=
					\$626.44
Contractors Note: Finish new concrete stairs - alternate #1					
25	05 12 23 00-0170		SI	Metal Grinding Up To 1/32" Thickness To Be Removed Note: Includes rust or scale removal on metal and smoothing surface after torch cutting.	\$224.98
				Installation	
				Quantity	Total
				288.00 x	0.65 x
				Factor	=
				1.2018	=
					\$224.98
Contractors Note: grind railings to remove posts and railings throughout - alternate #1					
26	09 01 60 00-0003		SF	Remove Setting Bed And Clean Area	\$1,221.51
				Installation	
				Quantity	Total
				280.00 x	3.63 x
				Factor	=
				1.2018	=
					\$1,221.51
Contractors Note: Remove existing sand bedding - alternate #1					
27	31 05 16 00-0003		CY	#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	\$663.69
				Installation	
				Quantity	Total
				25.00 x	22.09 x
				Factor	=
				1.2018	=
					\$663.69
Contractors Note: Furnish and install new aggregate for concrete stairs alternate #1					

Proposal Review Detail - Category Continued..

Date: November 12, 2019
Work Order #: 068496.01
Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total
Alternate #1					
28	31 05 16 00-0003	0053	CY	For Quantities > 10 To 25 (> 8 To 19 M3), Add	\$66.40
				Installation	
				Quantity	Total
				25.00 x	2.21 x
				Factor	=
				1.2018	=
					\$66.40
Contractors Note:					
29	31 23 36 00-0007		CY	Excavation By Hand Up To 1 On 4 Slope	\$2,610.01
				Installation	
				Quantity	Total
				35.00 x	62.05 x
				Factor	=
				1.2018	=
					\$2,610.01
Contractors Note: Excavate existing spoils in order to install new staircase foundation footings, walls and frost walls and the staircase alternate #1					
30	32 14 11 00-0002		SF	1" To 2" Sand Bedding, Screeded	\$249.01
				Installation	
				Quantity	Total
				280.00 x	0.74 x
				Factor	=
				1.2018	=
					\$249.01
Contractors Note: Furnish and install additional sand bedding as required - alternate #1					
31	32 14 16 00-0002		SF	4" x 8" x 2-1/4" Brick Paver, Laid Flat	\$1,956.53
				Installation	
				Quantity	Total
				220.00 x	4.94 x
				Factor	=
				1.2018	=
					\$1,306.12
				Demolition	
				Quantity	Total
				220.00 x	2.46 x
				Factor	=
				1.2018	=
					\$650.41
Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Excludes new material. - alternate #1					
32	32 14 16 00-0002	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$909.52
				Installation	
				Quantity	Total
				220.00 x	3.44 x
				Factor	=
				1.2018	=
					\$909.52
Contractors Note:					
33	32 14 16 00-0002	0132	SF	For Quantities > 100 To 500, Add	\$245.89
				Installation	
				Quantity	Total
				220.00 x	0.93 x
				Factor	=
				1.2018	=
					\$245.89
Contractors Note:					
34	32 14 16 00-0003		SF	4" x 8" x 2-1/4" Brick, Laid On Edge	\$607.87
				Installation	
				Quantity	Total
				60.00 x	5.82 x
				Factor	=
				1.2018	=
					\$405.25
				Demolition	
				Quantity	Total
				60.00 x	2.81 x
				Factor	=
				1.2018	=
					\$202.62
Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Pavers on the perimeter or each ramp are laid on edge. Excludes new material - alternate #1					
35	32 14 16 00-0003	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$429.04
				Installation	
				Quantity	Total
				60.00 x	5.95 x
				Factor	=
				1.2018	=
					\$429.04
Contractors Note:					
36	32 14 16 00-0003	0131	SF	For Quantities Up To 100, Add	\$322.32
				Installation	
				Quantity	Total
				60.00 x	4.47 x
				Factor	=
				1.2018	=
					\$322.32
Contractors Note:					

Subtotal for Alternate #1: \$62,928.63

East Ramp - North Tunnel

Date: November 12, 2019
Work Order #: 068496.01
Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total														
East Ramp - North Tunnel																			
37	01 22 23 00-0147		DAY	700 LB Capacity, 36" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	\$4,927.38														
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>5.00</td> <td>x</td> <td>820.00</td> <td>x</td> <td>1.2018 =</td> <td>\$4,927.38</td> </tr> </table>	Installation	Quantity		Unit Price		Factor	Total		5.00	x	820.00	x	1.2018 =	\$4,927.38	
Installation	Quantity		Unit Price		Factor	Total													
	5.00	x	820.00	x	1.2018 =	\$4,927.38													
				Contractors Note: Backhoe / bobcat used to assist in excavation, hauling spoils from work area to parking log, backfilling and hauling stone from parking lot to parking area at the east ramp - north tunnel.															
38	01 22 23 00-0162		DAY	Backhoe Attachment For Skid-Steer Loaders	\$602.94														
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>5.00</td> <td>x</td> <td>100.34</td> <td>x</td> <td>1.2018 =</td> <td>\$602.94</td> </tr> </table>	Installation	Quantity		Unit Price		Factor	Total		5.00	x	100.34	x	1.2018 =	\$602.94	
Installation	Quantity		Unit Price		Factor	Total													
	5.00	x	100.34	x	1.2018 =	\$602.94													
				Contractors Note: Backhoe / bobcat used to assist in excavation, hauling spoils from work area to parking log, backfilling and hauling stone from parking lot to parking area at east ramp - north tunnel.															
39	01 22 23 00-0527		WK	5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	\$9,211.63														
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>2.00</td> <td>x</td> <td>3,832.43</td> <td>x</td> <td>1.2018 =</td> <td>\$9,211.63</td> </tr> </table>	Installation	Quantity		Unit Price		Factor	Total		2.00	x	3,832.43	x	1.2018 =	\$9,211.63	
Installation	Quantity		Unit Price		Factor	Total													
	2.00	x	3,832.43	x	1.2018 =	\$9,211.63													
				Contractors Note: Equipment used to haul removed pavers to pallet and then used to bring pavers back East Ramp - North Tunnel to be reinstalled.															
40	01 71 13 00-0002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$483.89														
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>2.00</td> <td>x</td> <td>201.32</td> <td>x</td> <td>1.2018 =</td> <td>\$483.89</td> </tr> </table>	Installation	Quantity		Unit Price		Factor	Total		2.00	x	201.32	x	1.2018 =	\$483.89	
Installation	Quantity		Unit Price		Factor	Total													
	2.00	x	201.32	x	1.2018 =	\$483.89													
				Contractors Note: Mobilize / demobilize bobcat.															
41	01 71 13 00-0003		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed Note: For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with > 40' boom lengths, etc.	\$1,935.52														
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>4.00</td> <td>x</td> <td>402.63</td> <td>x</td> <td>1.2018 =</td> <td>\$1,935.52</td> </tr> </table>	Installation	Quantity		Unit Price		Factor	Total		4.00	x	402.63	x	1.2018 =	\$1,935.52	
Installation	Quantity		Unit Price		Factor	Total													
	4.00	x	402.63	x	1.2018 =	\$1,935.52													
				Contractors Note: Mobilize / demobilize equipment including but not limited to bobcat(s), concrete pump truck and loader for east ramp - north tunnel.															
42	01 74 13 00-0003		CY	Collect Existing Debris And Load Into Truck Or Dumpster Note: Per CY of debris removed	\$235.79														
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>10.00</td> <td>x</td> <td>19.62</td> <td>x</td> <td>1.2018 =</td> <td>\$235.79</td> </tr> </table>	Installation	Quantity		Unit Price		Factor	Total		10.00	x	19.62	x	1.2018 =	\$235.79	
Installation	Quantity		Unit Price		Factor	Total													
	10.00	x	19.62	x	1.2018 =	\$235.79													
				Contractors Note: Load concrete debris from east ramp - north tunnel into dumpster.															
43	01 74 19 00-0013		EA	20 CY Dumpster (3 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$459.33														
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td></td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>1.00</td> <td>x</td> <td>382.20</td> <td>x</td> <td>1.2018 =</td> <td>\$459.33</td> </tr> </table>	Installation	Quantity		Unit Price		Factor	Total		1.00	x	382.20	x	1.2018 =	\$459.33	
Installation	Quantity		Unit Price		Factor	Total													
	1.00	x	382.20	x	1.2018 =	\$459.33													
				Contractors Note: Dumpster for concrete and construction debris at the east ramp - north tunnel															

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Rec#	CSI Number	Mod.	UOM	Description	Line Total		
East Ramp - North Tunnel							
44	02 41 19 13-0003		SF	Remove Brick Flooring And Salvage	\$1,646.77		
				Quantity	Unit Price	Factor	Total
			Installation	675.00 x	2.03 x	1.2018 =	\$1,646.77
Contractors Note: Assist in removing / loading pavers onto pallet once they are removed.							
45	02 41 19 13-0089		EA	Saw Cut Minimum Charge Note: For projects where the total saw cutting charge is less than the minimum charge. Use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	\$612.03		
				Quantity	Unit Price	Factor	Total
			Installation	1.00 x	509.26 x	1.2018 =	\$612.03
Contractors Note: Minimum sawcut charge at east ramp - north tunnel.							
46	02 41 19 13-0259		SF	Up To 6" Thick Concrete Cutouts, Up To 8 SF With Light Reinforced, Slab On Grade	\$1,824.69		
				Quantity	Unit Price	Factor	Total
			Installation	45.00 x	33.74 x	1.2018 =	\$1,824.69
Contractors Note: Remove and dispose of existing concrete curb. Curb to be cut into pieces and hauled by buggy to dumpster at the east ramp - north tunnel							
47	03 11 13 00-0007		SF	Below Grade Walls Foundation Wood Formwork Note: Excludes footing	\$1,291.49		
				Quantity	Unit Price	Factor	Total
			Installation	113.00 x	9.51 x	1.2018 =	\$1,291.49
Contractors Note: Formwork required for furnishing and install new concrete curb at the east ramp - north tunnel.							
48	03 11 13 00-0007	0001	SF	For Quantities < 1000, Add	\$244.45		
				Quantity	Unit Price	Factor	Total
			Installation	113.00 x	1.80 x	1.2018 =	\$244.45
Contractors Note:							
49	03 21 13 00-0004		TON	Grade 50 Reinforcing Steel, Footings And Slabs, #3-#6	\$327.36		
				Quantity	Unit Price	Factor	Total
			Installation	0.10 x	2,723.94 x	1.2018 =	\$327.36
Contractors Note: Furnish and install new #5 rebar at the east ramp - north tunnel							
50	03 21 13 00-0004	0021	TON	For Epoxy Coated, Add	\$105.68		
				Quantity	Unit Price	Factor	Total
			Installation	0.10 x	879.36 x	1.2018 =	\$105.68
Contractors Note:							
51	03 31 13 00-0086		CY	150' (46 m) Haul, Non-Motorized, Concrete Buggy	\$301.65		
				Quantity	Unit Price	Factor	Total
			Installation	10.00 x	25.10 x	1.2018 =	\$301.65
Contractors Note: Buggy utilized to haul concrete debris from east ramp - north tunnel to truck or dumpster.							
52	03 31 13 00-0092		CY	Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY	\$144.22		
				Quantity	Unit Price	Factor	Total
			Installation	8.00 x	15.00 x	1.2018 =	\$144.22
Contractors Note: Small concrete delivery upcharge for east ramp - north tunnel							
53	03 35 16 00-0005		SF	Concrete Floor Finishes, Steel Trowel	\$75.17		
				Quantity	Unit Price	Factor	Total
			Installation	45.00 x	1.39 x	1.2018 =	\$75.17
Contractors Note: Finish new concrete curb at east ramp - north tunnel							

Proposal Review Detail - Category Continued..

Date: November 12, 2019
Work Order #: 068496.01
Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description					Line Total
East Ramp - North Tunnel									
54	03 35 16 00-0005	0056	SF	For Quantities Up To 50 SF, Add					\$300.69
				Installation	Quantity	Unit Price	Factor	Total	
					45.00	5.56	1.2018	\$300.69	
					x	x	=		
Contractors Note:									
55	09 01 60 00-0003		SF	Remove Setting Bed And Clean Area					\$2,944.71
				Installation	Quantity	Unit Price	Factor	Total	
					675.00	3.63	1.2018	\$2,944.71	
					x	x	=		
Contractors Note: Remove existing sand bedding to ensure ramps are level.									
56	31 05 16 00-0003		CY	#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)					\$53.10
				Installation	Quantity	Unit Price	Factor	Total	
					2.00	22.09	1.2018	\$53.10	
					x	x	=		
Contractors Note: Furnish and install new stone as required for new concrete curb at the east ramp - north tunnel									
57	31 05 16 00-0003	0052	CY	For Quantities Up To 10 (Up To 8 M3), Add					\$14.64
				Installation	Quantity	Unit Price	Factor	Total	
					2.00	6.09	1.2018	\$14.64	
					x	x	=		
Contractors Note:									
58	31 23 36 00-0007		CY	Excavation By Hand Up To 1 On 4 Slope					\$447.43
				Installation	Quantity	Unit Price	Factor	Total	
					6.00	62.05	1.2018	\$447.43	
					x	x	=		
Contractors Note: Excavate as required to install new curb at the east ramp - north tunnel.									
59	31 23 36 00-0057		LF	Fine Grading Of Curb And Gutter					\$57.87
				Installation	Quantity	Unit Price	Factor	Total	
					45.00	1.07	1.2018	\$57.87	
					x	x	=		
Contractors Note: Fine grading new curb at the east ramp - north tunnel									
60	32 14 11 00-0002		SF	1" To 2" Sand Bedding, Screeded					\$600.30
				Installation	Quantity	Unit Price	Factor	Total	
					675.00	0.74	1.2018	\$600.30	
					x	x	=		
Contractors Note: Furnish and install additional sand bedding as required.									
61	32 14 16 00-0002		SF	4" x 8" x 2-1/4" Brick Paver, Laid Flat					\$6,493.21
				Installation	Quantity	Unit Price	Factor	Total	
					485.00	8.68	1.2018	\$5,059.34	
				Demolition	485.00	2.46	1.2018	\$1,433.87	
					x	x	=		
Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Excludes new material.									
62	32 14 16 00-0002	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add					\$2,005.08
				Installation	Quantity	Unit Price	Factor	Total	
					485.00	3.44	1.2018	\$2,005.08	
					x	x	=		
Contractors Note:									
63	32 14 16 00-0002	0132	SF	For Quantities > 100 To 500, Add					\$542.07
				Installation	Quantity	Unit Price	Factor	Total	
					485.00	0.93	1.2018	\$542.07	
					x	x	=		
Contractors Note:									

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Rec#	CSI Number	Mod.	UOM	Description	Line Total
East Ramp - North Tunnel					
64	32 14 16 00-0003		SF	4" x 8" x 2-1/4" Brick, Laid On Edge	\$3,441.11
				Quantity Unit Price Factor Total	
			Installation	190.00 x 12.26 x 1.2018 =	\$2,799.47
			Demolition	190.00 x 2.81 x 1.2018 =	\$641.64
Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Pavers on the perimeter of each ramp are laid on edge. Excludes new material.					
65	32 14 16 00-0003	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$1,358.63
				Quantity Unit Price Factor Total	
			Installation	190.00 x 5.95 x 1.2018 =	\$1,358.63
Contractors Note:					
66	32 14 16 00-0003	0132	SF	For Quantities > 100 To 500, Add	\$269.44
				Quantity Unit Price Factor Total	
			Installation	190.00 x 1.18 x 1.2018 =	\$269.44
Contractors Note:					
67	32 16 13 13-0001		LF	6" x 12" Concrete Gutter With 6" Curb And Face - Straight	\$1,069.72
				Quantity Unit Price Factor Total	
			Installation	45.00 x 19.78 x 1.2018 =	\$1,069.72
Contractors Note: Furnish and install new concrete curb 6"x12" at east tunnel - north ramp. Line item excludes concrete pumping equipment.					
68	32 16 13 13-0001	0099	LF	For Quantities > 20 To 50, Add	\$409.93
				Quantity Unit Price Factor Total	
			Installation	45.00 x 7.58 x 1.2018 =	\$409.93
Contractors Note:					

Subtotal for East Ramp - North Tunnel: \$44,437.92

East Ramp - South Tunnel					
69	01 22 23 00-0147		DAY	700 LB Capacity, 36" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	\$2,956.43
				Quantity Unit Price Factor Total	
			Installation	3.00 x 820.00 x 1.2018 =	\$2,956.43
Contractors Note: Backhoe / bobcat used to assist in excavation, hauling spoils from work area to parking log, backfilling and hauling stone from parking lot to parking area at the east ramp - south tunnel.					
70	01 22 23 00-0162		DAY	Backhoe Attachment For Skid-Steer Loaders	\$602.94
				Quantity Unit Price Factor Total	
			Installation	5.00 x 100.34 x 1.2018 =	\$602.94
Contractors Note: Backhoe / bobcat used to assist in excavation, hauling spoils from work area to parking log, backfilling and hauling stone from parking lot to parking area at east ramp - south tunnel.					
71	01 22 23 00-0527		WK	5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	\$9,211.63
				Quantity Unit Price Factor Total	
			Installation	2.00 x 3,832.43 x 1.2018 =	\$9,211.63
Contractors Note: Equipment used to haul removed pavers to pallet and then used to bring pavers back to East Ramp - South Tunnel to be reinstalled.					

Proposal Review Detail - Category Continued..

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
East Ramp - South Tunnel						
72	01 71 13 00-0002	EA		Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$483.89	
			Quantity	Unit Price	Factor	Total
		Installation	2.00 x	201.32 x	1.2018 =	\$483.89
Contractors Note: Mobilize / demobilize bobcat.						
73	01 71 13 00-0003	EA		Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed Note: For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with > 40' boom lengths, etc.	\$1,935.52	
			Quantity	Unit Price	Factor	Total
		Installation	4.00 x	402.63 x	1.2018 =	\$1,935.52
Contractors Note: Mobilize / demobilize equipment including but not limited to bobcat(s), concrete pump truck and loader for east ramp - south tunnel.						
74	01 74 13 00-0003	CY		Collect Existing Debris And Load Into Truck Or Dumpster Note: Per CY of debris removed	\$330.11	
			Quantity	Unit Price	Factor	Total
		Installation	14.00 x	19.62 x	1.2018 =	\$330.11
Contractors Note: Load concrete debris from east ramp - south tunnel into dumpster.						
75	01 74 19 00-0013	EA		20 CY Dumpster (3 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$459.33	
			Quantity	Unit Price	Factor	Total
		Installation	1.00 x	382.20 x	1.2018 =	\$459.33
Contractors Note: Dumpster for concrete and construction debris at the east ramp - south tunnel.						
76	02 41 19 13-0003	SF		Remove Brick Flooring And Salvage	\$1,646.77	
			Quantity	Unit Price	Factor	Total
		Installation	675.00 x	2.03 x	1.2018 =	\$1,646.77
Contractors Note: Assist in removing / loading pavers onto pallet once they are removed.						
77	02 41 19 13-0089	EA		Saw Cut Minimum Charge Note: For projects where the total saw cutting charge is less than the minimum charge. Use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	\$612.03	
			Quantity	Unit Price	Factor	Total
		Installation	1.00 x	509.26 x	1.2018 =	\$612.03
Contractors Note: Minimum sawcut charge at east ramp - south tunnel.						
78	02 41 19 13-0259	SF		Up To 6" Thick Concrete Cutouts, Up To 8 SF With Light Reinforced, Slab On Grade	\$5,676.82	
			Quantity	Unit Price	Factor	Total
		Installation	140.00 x	33.74 x	1.2018 =	\$5,676.82
Contractors Note: Remove and dispose of existing concrete curb. Curb to be cut into pieces and hauled by buggy to dumpster at the east ramp - south tunnel.						

Date: November 12, 2019
Work Order #: 068496.01
Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
East Ramp - South Tunnel							
79	03 11 13 00-0007		SF	Below Grade Walls Foundation Wood Formwork Note: Excludes footing	\$4,000.19		
				Quantity	Unit Price	Factor	Total
			Installation	350.00 x	9.51 x	1.2018 =	\$4,000.19
Contractors Note: Formwork required for furnishing and install new concrete curb at the east ramp - south tunnel.							
80	03 11 13 00-0007	0001	SF	For Quantities < 1000, Add	\$757.13		
				Quantity	Unit Price	Factor	Total
			Installation	350.00 x	1.80 x	1.2018 =	\$757.13
Contractors Note:							
81	03 21 13 00-0004		TON	Grade 50 Reinforcing Steel, Footings And Slabs, #3-#6	\$327.36		
				Quantity	Unit Price	Factor	Total
			Installation	0.10 x	2,723.94 x	1.2018 =	\$327.36
Contractors Note: Furnish and install new #5 rebar at the east ramp - south tunnel.							
82	03 21 13 00-0004	0021	TON	For Epoxy Coated, Add	\$105.68		
				Quantity	Unit Price	Factor	Total
			Installation	0.10 x	879.36 x	1.2018 =	\$105.68
Contractors Note:							
83	03 31 13 00-0086		CY	150' (46 m) Haul, Non-Motorized, Concrete Buggy	\$301.65		
				Quantity	Unit Price	Factor	Total
			Installation	10.00 x	25.10 x	1.2018 =	\$301.65
Contractors Note: Buggy utilized to haul concrete debris from east ramp - south tunnel to truck or dumpster.							
84	03 31 13 00-0092		CY	Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY	\$108.16		
				Quantity	Unit Price	Factor	Total
			Installation	6.00 x	15.00 x	1.2018 =	\$108.16
Contractors Note: Small concrete delivery upcharge for east ramp - south tunnel.							
85	03 35 16 00-0005		SF	Concrete Floor Finishes, Steel Trowel	\$233.87		
				Quantity	Unit Price	Factor	Total
			Installation	140.00 x	1.39 x	1.2018 =	\$233.87
Contractors Note: Finish new concrete curb at east ramp - south tunnel.							
86	03 35 16 00-0005	0057	SF	For Quantities > 50 To 250 SF, Add	\$233.87		
				Quantity	Unit Price	Factor	Total
			Installation	140.00 x	1.39 x	1.2018 =	\$233.87
Contractors Note:							
87	09 01 60 00-0003		SF	Remove Setting Bed And Clean Area	\$2,944.71		
				Quantity	Unit Price	Factor	Total
			Installation	675.00 x	3.63 x	1.2018 =	\$2,944.71
Contractors Note: Remove existing sand bedding to ensure ramps are level.							
88	31 05 16 00-0003		CY	#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	\$106.19		
				Quantity	Unit Price	Factor	Total
			Installation	4.00 x	22.09 x	1.2018 =	\$106.19
Contractors Note: Furnish and install new stone as required for new concrete curb at the east ramp - south tunnel.							

Date: November 12, 2019

Work Order #: 068496.01

Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
East Ramp - South Tunnel							
89	31 05 16 00-0003	0052	CY	For Quantities Up To 10 (Up To 8 M3), Add	\$29.28		
				Quantity	Unit Price	Factor	Total
				Installation	4.00 x 6.09	x 1.2018 =	\$29.28
Contractors Note:							
90	31 23 36 00-0007		CY	Excavation By Hand Up To 1 On 4 Slope	\$745.72		
				Quantity	Unit Price	Factor	Total
				Installation	10.00 x 62.05	x 1.2018 =	\$745.72
Contractors Note: Excavate as required to install new curb at the east ramp - south tunnel.							
91	31 23 36 00-0057		LF	Fine Grading Of Curb And Gutter	\$180.03		
				Quantity	Unit Price	Factor	Total
				Installation	140.00 x 1.07	x 1.2018 =	\$180.03
Contractors Note: Fine grading new curb at the east ramp - south tunnel.							
92	32 14 11 00-0002		SF	1" To 2" Sand Bedding, Screeded	\$600.30		
				Quantity	Unit Price	Factor	Total
				Installation	675.00 x 0.74	x 1.2018 =	\$600.30
Contractors Note: Furnish and install additional sand bedding as required.							
93	32 14 16 00-0002		SF	4" x 8" x 2-1/4" Brick Paver, Laid Flat	\$6,493.21		
				Quantity	Unit Price	Factor	Total
				Installation	485.00 x 8.68	x 1.2018 =	\$5,059.34
				Demolition	485.00 x 2.46	x 1.2018 =	\$1,433.87
Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Excludes new material.							
94	32 14 16 00-0002	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$2,005.08		
				Quantity	Unit Price	Factor	Total
				Installation	485.00 x 3.44	x 1.2018 =	\$2,005.08
Contractors Note:							
95	32 14 16 00-0002	0132	SF	For Quantities > 100 To 500, Add	\$542.07		
				Quantity	Unit Price	Factor	Total
				Installation	485.00 x 0.93	x 1.2018 =	\$542.07
Contractors Note:							
96	32 14 16 00-0003		SF	4" x 8" x 2-1/4" Brick, Laid On Edge	\$3,441.11		
				Quantity	Unit Price	Factor	Total
				Installation	190.00 x 12.26	x 1.2018 =	\$2,799.47
				Demolition	190.00 x 2.81	x 1.2018 =	\$641.64
Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Pavers on the perimeter of each ramp are laid on edge. Excludes new material.							
97	32 14 16 00-0003	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$1,358.63		
				Quantity	Unit Price	Factor	Total
				Installation	190.00 x 5.95	x 1.2018 =	\$1,358.63
Contractors Note:							
98	32 14 16 00-0003	0132	SF	For Quantities > 100 To 500, Add	\$269.44		
				Quantity	Unit Price	Factor	Total
				Installation	190.00 x 1.18	x 1.2018 =	\$269.44
Contractors Note:							

Proposal Review Detail - Category Continued..

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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East Ramp - South Tunnel

99	32 16 13 13-0001		LF	6" x 12" Concrete Gutter With 6" Curb And Face - Straight	\$3,328.02		
				Quantity	Unit Price	Factor	Total
			Installation	140.00	x 19.78	x 1.2018	= \$3,328.02

Contractors Note: Furnish and install new concrete curb 6"x12" at east tunnel - south tunnel. Line item excludes concrete pumping equipment.

Subtotal for East Ramp - South Tunnel: \$52,027.17

Main Staircase

100	01 22 23 00-0527		WK	5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	\$9,211.63		
				Quantity	Unit Price	Factor	Total
			Installation	2.00	x 3,832.43	x 1.2018	= \$9,211.63

Contractors Note: Equipment used to haul removed pavers on pallet and then used to bring pavers back to the main staircase entrance and adjacent small staircase entrance for reinstalled.

101	01 71 13 00-0002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$483.89		
				Quantity	Unit Price	Factor	Total
			Installation	2.00	x 201.32	x 1.2018	= \$483.89

Contractors Note: Mobilize and demobilize concrete equipment at the main staircase and adjacent small staircase entrance.

102	01 74 13 00-0003		CY	Collect Existing Debris And Load Into Truck Or Dumpster Note: Per CY of debris removed	\$1,178.97		
				Quantity	Unit Price	Factor	Total
			Installation	50.00	x 19.62	x 1.2018	= \$1,178.97

Contractors Note: Load spoils into truck or dumpster at the main entrance and adjacent small entrance staircase

103	01 74 19 00-0013		EA	20 CY Dumpster (3 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$459.33		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	x 382.20	x 1.2018	= \$459.33

Contractors Note: Construction debris at the main entrance

104	02 41 19 13-0003		SF	Remove Brick Flooring And Salvage	\$1,061.25		
				Quantity	Unit Price	Factor	Total
			Installation	435.00	x 2.03	x 1.2018	= \$1,061.25

Contractors Note: Assist in removing / loading pavers onto pallet once they are removed.

105	02 41 19 13-0089		EA	Saw Cut Minimum Charge Note: For projects where the total saw cutting charge is less than the minimum charge. Use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	\$612.03		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	x 509.26	x 1.2018	= \$612.03

Contractors Note: Minimum sawcut charge at main staircase and adjacent small entrance staircase

106	02 41 19 13-0214		IN	3/4" Diameter Drilling In Concrete Per Inch Of Depth	\$670.60		
				Quantity	Unit Price	Factor	Total
			Installation	186.00	x 3.00	x 1.2018	= \$670.60

Contractors Note: Drill into existing concrete slab to install dowels at the main staircase and the adjacent small entrance staircase.

Proposal Review Detail - Category Continued..

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total
Main Staircase					
107	02 41 19 13-0261		SF	Up To 6" Thick Concrete Cutouts, Up To 8 SF With Bar Reinforced, Slab On Grade	\$17,197.76
			Installation	Quantity 375.00 x Unit Price 38.16 x Factor 1.2018 = Total \$17,197.76	
			Contractors Note: Sawcut existing concrete at main staircase into pieces small enough to haul by hand / concrete buggy to the dumpster.		
108	03 01 30 71-0016		LF	Epoxy Injection, Over 1/4" Wide	\$1,282.32
			Installation	Quantity 20.00 x Unit Price 53.35 x Factor 1.2018 = Total \$1,282.32	
			Contractors Note: Epoxy injection for new dowels at the main entrance and the adjacent small entrance staircase.		
109	03 11 13 00-0007		SF	Below Grade Walls Foundation Wood Formwork Note: Excludes footing	\$1,828.66
			Installation	Quantity 160.00 x Unit Price 9.51 x Factor 1.2018 = Total \$1,828.66	
			Contractors Note: Formwork for new main staircase foundation footings, walls and frost walls.		
110	03 11 13 00-0007	0001	SF	For Quantities < 1000, Add	\$346.12
			Installation	Quantity 160.00 x Unit Price 1.80 x Factor 1.2018 = Total \$346.12	
			Contractors Note:		
111	03 11 23 00-0002		SF	Cast On Grade Stairway Wood Formwork	\$3,937.10
			Installation	Quantity 240.00 x Unit Price 13.65 x Factor 1.2018 = Total \$3,937.10	
			Contractors Note: Formwork required on both sides of new main staircase and at each rise/run. Including small staircase entrance.		
112	03 11 23 00-0002	0008	SF	For Quantities < 1000, Add	\$767.23
			Installation	Quantity 240.00 x Unit Price 2.66 x Factor 1.2018 = Total \$767.23	
			Contractors Note:		
113	03 21 13 00-0006		TON	Grade 60 Reinforcing Steel, Footings And Slabs, #3-#6	\$2,660.95
			Installation	Quantity 0.80 x Unit Price 2,767.67 x Factor 1.2018 = Total \$2,660.95	
			Contractors Note: Furnish and install required rebar for the main staircase including small staircase entrance.		
114	03 21 13 00-0006	0021	TON	For Epoxy Coated, Add	\$877.15
			Installation	Quantity 0.80 x Unit Price 912.33 x Factor 1.2018 = Total \$877.15	
			Contractors Note:		
115	03 21 13 00-0026		EA	Straight Dowels, 5/8" Diameter x 24" Long (16 mm Diameter x 61 cm Long), Deformed	\$85.93
			Installation	Quantity 25.00 x Unit Price 2.86 x Factor 1.2018 = Total \$85.93	
			Contractors Note: Furnish and install new dowels to tie new staircase landing into existing concrete		
116	03 31 13 00-0034		CY	Direct Chute, Place 3000 PSI On Grade Concrete Stairs	\$7,953.48
			Installation	Quantity 27.00 x Unit Price 245.11 x Factor 1.2018 = Total \$7,953.48	
			Contractors Note: Furnish and install new concrete for the main staircase and adjacent small entrance staircase.		

Proposal Review Detail - Category Continued..

Date: November 12, 2019

Work Order #: 068496.01

Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Main Staircase							
117	03 31 13 00-0034	0037	CY	For 4000 PSI (280 Kg/Cm2) Concrete, Add	\$288.79		
				Quantity	Unit Price	Factor	Total
			Installation	27.00 x	8.90 x	1.2018 =	\$288.79
Contractors Note:							
118	03 31 13 00-0034	0047	CY	For Quantities > 20 To 50, Add	\$689.21		
				Quantity	Unit Price	Factor	Total
			Installation	27.00 x	21.24 x	1.2018 =	\$689.21
Contractors Note:							
119	03 31 13 00-0062		CY	12" Thick, By Direct Chute, Place 3000 PSI Concrete Walls	\$3,984.21		
				Quantity	Unit Price	Factor	Total
			Installation	20.00 x	165.76 x	1.2018 =	\$3,984.21
Contractors Note: Furnish and install new concrete at foundation footings, foundation walls and frost walls at the main staircase and the adjacent small entrance staircase.							
120	03 31 13 00-0062	0037	CY	For 4000 PSI (280 Kg/Cm2) Concrete, Add	\$213.92		
				Quantity	Unit Price	Factor	Total
			Installation	20.00 x	8.90 x	1.2018 =	\$213.92
Contractors Note:							
121	03 31 13 00-0062	0051	CY	For Quantities Up To 20, Add	\$598.50		
				Quantity	Unit Price	Factor	Total
			Installation	20.00 x	24.90 x	1.2018 =	\$598.50
Contractors Note:							
122	03 31 13 00-0086		CY	150' (46 m) Haul, Non-Motorized, Concrete Buggy	\$1,508.26		
				Quantity	Unit Price	Factor	Total
			Installation	50.00 x	25.10 x	1.2018 =	\$1,508.26
Contractors Note: Buggy utilized to haul new and demolished concrete at the main staircase and adjacent small entrance staircase.							
123	03 35 16 00-0005		SF	Concrete Floor Finishes, Steel Trowel	\$626.44		
				Quantity	Unit Price	Factor	Total
			Installation	375.00 x	1.39 x	1.2018 =	\$626.44
Contractors Note: Finish new concrete stairs.							
124	09 01 60 00-0003		SF	Remove Setting Bed And Clean Area	\$1,897.70		
				Quantity	Unit Price	Factor	Total
			Installation	435.00 x	3.63 x	1.2018 =	\$1,897.70
Contractors Note: Remove existing sand bedding.							
125	31 05 16 00-0003		CY	#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	\$663.69		
				Quantity	Unit Price	Factor	Total
			Installation	25.00 x	22.09 x	1.2018 =	\$663.69
Contractors Note: Furnish and install new aggregate for concrete stairs.							
126	31 05 16 00-0003	0053	CY	For Quantities > 10 To 25 (> 8 To 19 M3), Add	\$66.40		
				Quantity	Unit Price	Factor	Total
			Installation	25.00 x	2.21 x	1.2018 =	\$66.40
Contractors Note:							

Proposal Review Detail - Category Continued..

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total
Main Staircase					
127	31 23 36 00-0007		CY	Excavation By Hand Up To 1 On 4 Slope	\$2,610.01
				Installation	
				Quantity	Unit Price
				35.00 x	62.05 x
				Factor	Total
				1.2018 =	\$2,610.01
				Contractors Note: Excavate existing spoils in order to install new staircase foundation footings, walls and frost walls and the main staircase and the adjacent small entrance staircase.	
128	32 14 11 00-0002		SF	1" To 2" Sand Bedding, Screeded	\$386.86
				Installation	
				Quantity	Unit Price
				435.00 x	0.74 x
				Factor	Total
				1.2018 =	\$386.86
				Contractors Note: Furnish and install additional sand bedding as required.	
129	32 14 11 00-0002	0132	SF	For Quantities > 100 To 500, Add	\$52.28
				Installation	
				Quantity	Unit Price
				435.00 x	0.10 x
				Factor	Total
				1.2018 =	\$52.28
				Contractors Note:	
130	32 14 16 00-0002		SF	4" x 8" x 2-1/4" Brick Paver, Laid Flat	\$2,756.93
				Installation	
				Quantity	Unit Price
				310.00 x	4.94 x
				Factor	Total
				1.2018 =	\$1,840.44
				Demolition	
				Quantity	Unit Price
				310.00 x	2.46 x
				Factor	Total
				1.2018 =	\$916.49
				Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Excludes new material.	
131	32 14 16 00-0002	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$1,281.60
				Installation	
				Quantity	Unit Price
				310.00 x	3.44 x
				Factor	Total
				1.2018 =	\$1,281.60
				Contractors Note:	
132	32 14 16 00-0002	0132	SF	For Quantities > 100 To 500, Add	\$346.48
				Installation	
				Quantity	Unit Price
				310.00 x	0.93 x
				Factor	Total
				1.2018 =	\$346.48
				Contractors Note:	
133	32 14 16 00-0003		SF	4" x 8" x 2-1/4" Brick, Laid On Edge	\$1,266.40
				Installation	
				Quantity	Unit Price
				125.00 x	5.62 x
				Factor	Total
				1.2018 =	\$844.26
				Demolition	
				Quantity	Unit Price
				125.00 x	2.81 x
				Factor	Total
				1.2018 =	\$422.13
				Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Pavers on the perimeter or each ramp are laid on edge. Excludes new material.	
134	32 14 16 00-0003	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$893.84
				Installation	
				Quantity	Unit Price
				125.00 x	5.95 x
				Factor	Total
				1.2018 =	\$893.84
				Contractors Note:	
135	32 14 16 00-0003	0132	SF	For Quantities > 100 To 500, Add	\$177.27
				Installation	
				Quantity	Unit Price
				125.00 x	1.18 x
				Factor	Total
				1.2018 =	\$177.27
				Contractors Note:	

Subtotal for Main Staircase: \$70,923.19

No Category Input

Proposal Review Detail - Category Continued..

Date: November 12, 2019
Work Order #: 068496.01
Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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No Category Input

136	01 22 16 00-0002		EA	Reimbursable Fees Note: Reimbursable Fees will be paid to the contractor for the actual cost of all permits, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The labor cost involved in obtaining all permits is in the Adjustment Factor. The base cost of the Reimbursable Fee is \$1.00. The quantity used will adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, each one shall be listed separately with a comment in the "note" block to identify the Reimbursable Fees (e.g. sidewalk closure, road cut, various permits, extended warrantee, expedited shipping costs, etc.). A copy of each receipt shall be included with the Proposal.	\$-13,821.00	
		Installation	Quantity	Unit Price	Factor	Total
			-13,821.00	1.00	1.0000 =	\$-13,821.00

Subtotal for No Category Input: \$-13,821.00

Railings

137	01 71 13 00-0003		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed Note: For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with > 40' boom lengths, etc.	\$1,935.52	
		Installation	Quantity	Unit Price	Factor	Total
			4.00	402.63	1.2018 =	\$1,935.52
Contractors Note: Due to site logistics, line item is to mobilize and demobilize materials, equipment, tools, etc. for four (4) phases.						

138	02 41 19 13-0094		EA	Drill 3" (76 mm) Diameter Core In 4" (10 cm) Concrete	\$39,871.97	
		Installation	Quantity	Unit Price	Factor	Total
			639.00	51.92	1.2018 =	\$39,871.97
Contractors Note: 2 1/2" diameter core in new concrete slab / curb to install refurbished slotted railing posts. Spacing figured 3' O.C. Some locations are 1' O.C and other locations are 3'11" O.C. Excludes material.						

139	03 01 30 71-0015		LF	Epoxy Injection, Up To 1/4" Wide	\$30,426.19	
		Installation	Quantity	Unit Price	Factor	Total
			639.00	39.62	1.2018 =	\$30,426.19
Contractors Note: Furnish and install epoxy base once railings posts are installed. Minimum of 6" embedment. Excludes material.						

140	05 12 23 00-0122		EA	> 15 Spot Weldings, Welds Up To 1" Length Each	\$1,653.08	
		Installation	Quantity	Unit Price	Factor	Total
			175.00	7.86	1.2018 =	\$1,653.08
Contractors Note: 175 field weld figured once railings are installed. Each weld will be touched up with appropriate paint to match the existing. Excludes material.						

141	05 12 23 00-0122	0007	EA	For Aluminum Welding, Add	\$292.34	
		Installation	Quantity	Unit Price	Factor	Total
			175.00	1.39	1.2018 =	\$292.34
Contractors Note:						

Proposal Review Detail - Category Continued..

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
Railings							
142	05 12 23 00-0170		SI	Metal Grinding Up To 1/32" Thickness To Be Removed Note: Includes rust or scale removal on metal and smoothing surface after torch cutting.	\$5,278.02		
	Excludes Material			Quantity	Unit Price	Factor	Total
			Installation	7,199.61	x 0.61	x 1.2018	= \$5,278.02
Contractors Note: grind railings to remove posts and railings throughout. Excludes material.							
143	05 52 00 00-0002		LS	Powdercoated Silver Steel Railings	\$248,102.25		
	NPP Task			Quantity	Unit Price	Factor	Total
			Installation	1.00	x 236,287.86	x 1.0500	= \$248,102.25
Contractors Note: Furnish and deliver new steel powdercoated silver railings to match existing as close as possible. NPP line item includes all necessary railing materials including but not limited to railings, handrail, escutcheon plates, bolts, etc.							
144	05 52 13 00-0005		LF	2" Diameter (51 mm) Welded Pipe Handrail, 2 Rail, Up To 42" High (1.07 m) With Shop Paint	\$10,202.80		
	Excludes Material			Quantity	Unit Price	Factor	Total
			Installation	320.00	x 17.69	x 1.2018	= \$6,803.15
			Demolition	320.00	x 8.84	x 1.2018	= \$3,399.65
Contractors Note: New railing extensions required to ensure proper installation into existing concrete slab (below pavers). 6" extensions figured on 639 posts. Excludes material.							
145	05 52 13 00-0005		LF	2" Diameter (51 mm) Welded Pipe Handrail, 2 Rail, Up To 42" High (1.07 m) With Shop Paint	\$54,011.08		
	Excludes Material			Quantity	Unit Price	Factor	Total
			Installation	1,694.00	x 17.69	x 1.2018	= \$36,014.17
			Demolition	1,694.00	x 8.84	x 1.2018	= \$17,996.91
Contractors Note: Replace railings throughout. Excludes material.							
146	05 52 13 00-0005	0100	LF	For Mounting On Stairs, Add	\$879.72		
				Quantity	Unit Price	Factor	Total
			Installation	150.00	x 4.88	x 1.2018	= \$879.72
Contractors Note:							
147	05 52 13 00-0005	0101	LF	For Mounting On Slopes, Add	\$3,284.38		
				Quantity	Unit Price	Factor	Total
			Installation	1,544.00	x 1.77	x 1.2018	= \$3,284.38
Contractors Note:							
148	05 73 00 00-0016		LF	Refinish Metal Handrail	\$21,866.33		
	Excludes Material			Quantity	Unit Price	Factor	Total
			Installation	2,179.00	x 8.35	x 1.2018	= \$21,866.33
Contractors Note: Line item used for powder coating new railings. Excludes material.							
149	07 92 00 00-0023		CLF	3/8" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	\$6,038.28		
	Excludes Material			Quantity	Unit Price	Factor	Total
			Installation	11.00	x 304.49	x 1.2018	= \$4,025.30
			Demolition	11.00	x 152.27	x 1.2018	= \$2,012.98
Contractors Note: Continuous sealant around slotted railing posts once epoxy base is installed. Excludes material.							

Subtotal for Railings: \$423,841.96

Stair Repairs

Proposal Review Detail - Category Continued..

Date: November 12, 2019
Work Order #: 068496.01
Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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Stair Repairs

150	02 41 13 13-0040		EA	Grind Existing Sidewalks Up To 1/2" Depth To Remove Ridges (Tripping Hazard) Note: For each location up to 5' wide, feather up to 12" each direction	\$2,558.61		
				Quantity	Unit Price	Factor	Total
			Installation	14.00	x 152.07	x 1.2018	= \$2,558.61

Contractors Note: Grind existing staircases prior to patching at 27 separate locations. Line item figures half of the stair quantity.

151	02 41 13 13-0040	0058	EA	For > 1" To 1-1/2" Depth Of Grinding, Add	\$616.85		
				Quantity	Unit Price	Factor	Total
			Installation	13.50	x 38.02	x 1.2018	= \$616.85

Contractors Note:

152	03 01 30 71-0028		EA	Patch Up To 16 SF Of Decks Or Floors, Portland Cement Based Repair Material	\$26,965.08		
				Quantity	Unit Price	Factor	Total
			Installation	14.00	x 1,602.66	x 1.2018	= \$26,965.08

Contractors Note: Patch existing staircase at 27 separate locations. Line item figures half of the stair quantity.

Subtotal for Stair Repairs: **\$30,140.54**

West Ramp - North Tunnel

153	01 22 23 00-0147		DAY	700 LB Capacity, 36" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	\$4,927.38		
				Quantity	Unit Price	Factor	Total
			Installation	5.00	x 820.00	x 1.2018	= \$4,927.38

Contractors Note: Backhoe / bobcat used to assist in excavation, hauling spoils from work area to parking log, backfilling and hauling stone from parking lot to parking area at the west ramp - north tunnel

154	01 22 23 00-0162		DAY	Backhoe Attachment For Skid-Steer Loaders	\$602.94		
				Quantity	Unit Price	Factor	Total
			Installation	5.00	x 100.34	x 1.2018	= \$602.94

Contractors Note: Backhoe / bobcat used to assist in excavation, hauling spoils from work area to parking log, backfilling and hauling stone from parking lot to parking area at west ramp - north tunnel.

155	01 22 23 00-0527		WK	5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	\$9,211.63		
				Quantity	Unit Price	Factor	Total
			Installation	2.00	x 3,832.43	x 1.2018	= \$9,211.63

Contractors Note: Equipment used to haul removed pavers on pallet and then used to bring pavers back to west ramp @ north tunnel for reinstalled.

156	01 71 13 00-0002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$483.89		
				Quantity	Unit Price	Factor	Total
			Installation	2.00	x 201.32	x 1.2018	= \$483.89

Contractors Note: Mobilize / demobilize bobcat.

Proposal Review Detail - Category Continued..

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total												
West Ramp - North Tunnel																	
157	01 71 13 00-0003		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed Note: For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with > 40' boom lengths, etc.	\$1,935.52												
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>4.00</td> <td>x</td> <td>402.63</td> <td>1.2018 =</td> <td>\$1,935.52</td> </tr> </table>	Installation	Quantity		Unit Price	Factor	Total		4.00	x	402.63	1.2018 =	\$1,935.52	
Installation	Quantity		Unit Price	Factor	Total												
	4.00	x	402.63	1.2018 =	\$1,935.52												
Contractors Note: Mobilize / demobilize equipment including but not limited to bobcat(s), concrete pump truck and loader for west ramp - north tunnel.																	
158	01 74 13 00-0003		CY	Collect Existing Debris And Load into Truck Or Dumpster Note: Per CY of debris removed	\$117.90												
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>5.00</td> <td>x</td> <td>19.62</td> <td>1.2018 =</td> <td>\$117.90</td> </tr> </table>	Installation	Quantity		Unit Price	Factor	Total		5.00	x	19.62	1.2018 =	\$117.90	
Installation	Quantity		Unit Price	Factor	Total												
	5.00	x	19.62	1.2018 =	\$117.90												
Contractors Note: Load concrete debris from west ramp - north tunnel into dumpster.																	
159	01 74 19 00-0013		EA	20 CY Dumpster (3 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$459.33												
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>1.00</td> <td>x</td> <td>382.20</td> <td>1.2018 =</td> <td>\$459.33</td> </tr> </table>	Installation	Quantity		Unit Price	Factor	Total		1.00	x	382.20	1.2018 =	\$459.33	
Installation	Quantity		Unit Price	Factor	Total												
	1.00	x	382.20	1.2018 =	\$459.33												
Contractors Note: Dumpster for concrete and construction debris at the west ramp - north tunnel																	
160	02 41 19 13-0003		SF	Remove Brick Flooring And Salvage	\$1,646.77												
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>675.00</td> <td>x</td> <td>2.03</td> <td>1.2018 =</td> <td>\$1,646.77</td> </tr> </table>	Installation	Quantity		Unit Price	Factor	Total		675.00	x	2.03	1.2018 =	\$1,646.77	
Installation	Quantity		Unit Price	Factor	Total												
	675.00	x	2.03	1.2018 =	\$1,646.77												
Contractors Note: Assist in removing / loading pavers onto pallet once they are removed.																	
161	02 41 19 13-0089		EA	Saw Cut Minimum Charge Note: For projects where the total saw cutting charge is less than the minimum charge. Use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	\$612.03												
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>1.00</td> <td>x</td> <td>509.26</td> <td>1.2018 =</td> <td>\$612.03</td> </tr> </table>	Installation	Quantity		Unit Price	Factor	Total		1.00	x	509.26	1.2018 =	\$612.03	
Installation	Quantity		Unit Price	Factor	Total												
	1.00	x	509.26	1.2018 =	\$612.03												
Contractors Note: Minimum sawcut charge at west ramp - north tunnel.																	
162	02 41 19 13-0259		SF	Up To 6" Thick Concrete Cutouts, Up To 8 SF With Light Reinforced, Slab On Grade	\$6,893.28												
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>170.00</td> <td>x</td> <td>33.74</td> <td>1.2018 =</td> <td>\$6,893.28</td> </tr> </table>	Installation	Quantity		Unit Price	Factor	Total		170.00	x	33.74	1.2018 =	\$6,893.28	
Installation	Quantity		Unit Price	Factor	Total												
	170.00	x	33.74	1.2018 =	\$6,893.28												
Contractors Note: Remove and dispose of existing concrete curb. Curb to be cut into pieces and hauled by buggy to dumpster at the west ramp - north tunnel																	
163	03 11 13 00-0007		SF	Below Grade Walls Foundation Wood Formwork Note: Excludes footing	\$4,857.38												
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>425.00</td> <td>x</td> <td>9.51</td> <td>1.2018 =</td> <td>\$4,857.38</td> </tr> </table>	Installation	Quantity		Unit Price	Factor	Total		425.00	x	9.51	1.2018 =	\$4,857.38	
Installation	Quantity		Unit Price	Factor	Total												
	425.00	x	9.51	1.2018 =	\$4,857.38												
Contractors Note: Formwork required for furnishing and install new concrete curb at the west ramp - north tunnel. 170' long ramp, formwork both sides																	
164	03 11 13 00-0007	0001	SF	For Quantities < 1000, Add	\$919.38												
				<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td></td> <td>Unit Price</td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>425.00</td> <td>x</td> <td>1.80</td> <td>1.2018 =</td> <td>\$919.38</td> </tr> </table>	Installation	Quantity		Unit Price	Factor	Total		425.00	x	1.80	1.2018 =	\$919.38	
Installation	Quantity		Unit Price	Factor	Total												
	425.00	x	1.80	1.2018 =	\$919.38												
Contractors Note:																	

Proposal Review Detail - Category Continued..

Date: November 12, 2019

Work Order #: 068496.01

Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total			
West Ramp - North Tunnel								
165	03 31 13 00-0086		CY	150' (46 m) Haul, Non-Motorized, Concrete Buggy	\$452.48			
				Quantity	Unit Price	Factor	Total	
				Installation	15.00 x	25.10 x	1.2018 =	\$452.48
				Contractors Note: Buggy utilized to haul concrete debris from west ramp - north tunnel to truck or dumpster.				
166	03 31 13 00-0092		CY	Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY	\$108.16			
				Quantity	Unit Price	Factor	Total	
				Installation	6.00 x	15.00 x	1.2018 =	\$108.16
				Contractors Note: Small concrete delivery upcharge for west ramp - north tunnel				
167	03 35 16 00-0005		SF	Concrete Floor Finishes, Steel Trowel	\$283.99			
				Quantity	Unit Price	Factor	Total	
				Installation	170.00 x	1.39 x	1.2018 =	\$283.99
				Contractors Note: Finish new concrete curb at west ramp - north tunnel				
168	03 35 16 00-0005	0057	SF	For Quantities > 50 To 250 SF, Add	\$283.99			
				Quantity	Unit Price	Factor	Total	
				Installation	170.00 x	1.39 x	1.2018 =	\$283.99
				Contractors Note:				
169	09 01 60 00-0003		SF	Remove Setting Bed And Clean Area	\$2,944.71			
				Quantity	Unit Price	Factor	Total	
				Installation	675.00 x	3.63 x	1.2018 =	\$2,944.71
				Contractors Note: Remove existing sand bedding to ensure ramps are level.				
170	31 05 16 00-0003		CY	#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	\$106.19			
				Quantity	Unit Price	Factor	Total	
				Installation	4.00 x	22.09 x	1.2018 =	\$106.19
				Contractors Note: Furnish and install new stone as required for new concrete curb at the west ramp - north tunnel				
171	31 05 16 00-0003	0052	CY	For Quantities Up To 10 (Up To 8 M3), Add	\$29.28			
				Quantity	Unit Price	Factor	Total	
				Installation	4.00 x	6.09 x	1.2018 =	\$29.28
				Contractors Note:				
172	31 23 36 00-0007		CY	Excavation By Hand Up To 1 On 4 Slope	\$745.72			
				Quantity	Unit Price	Factor	Total	
				Installation	10.00 x	62.05 x	1.2018 =	\$745.72
				Contractors Note: Excavate as required to install new curb at the west ramp - north tunnel.				
173	31 23 36 00-0057		LF	Fine Grading Of Curb And Gutter	\$218.61			
				Quantity	Unit Price	Factor	Total	
				Installation	170.00 x	1.07 x	1.2018 =	\$218.61
				Contractors Note: Fine grading new curb at the west ramp - north tunnel				
174	32 14 11 00-0002		SF	1" To 2" Sand Bedding, Screeded	\$600.30			
				Quantity	Unit Price	Factor	Total	
				Installation	675.00 x	0.74 x	1.2018 =	\$600.30
				Contractors Note: Furnish and install additional sand bedding as required.				

Proposal Review Detail - Category Continued..

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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West Ramp - North Tunnel

175	32 14 16 00-0002		SF	4" x 8" x 2-1/4" Brick Paver, Laid Flat	\$6,493.21
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	Quantity		Unit Price		Factor	Total
Installation	485.00	x	8.68	x	1.2018 =	\$5,059.34
Demolition	485.00	x	2.46	x	1.2018 =	\$1,433.87

Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Excludes new material.

176	32 14 16 00-0002	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$2,005.08
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	Quantity		Unit Price		Factor	Total
Installation	485.00	x	3.44	x	1.2018 =	\$2,005.08

Contractors Note:

177	32 14 16 00-0002	0132	SF	For Quantities > 100 To 500, Add	\$542.07
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	Quantity		Unit Price		Factor	Total
Installation	485.00	x	0.93	x	1.2018 =	\$542.07

Contractors Note:

178	32 14 16 00-0003		SF	4" x 8" x 2-1/4" Brick, Laid On Edge	\$3,441.11
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	Quantity		Unit Price		Factor	Total
Installation	190.00	x	12.26	x	1.2018 =	\$2,799.47
Demolition	190.00	x	2.81	x	1.2018 =	\$641.64

Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Pavers on the perimeter of each ramp are laid on edge. Excludes new material.

179	32 14 16 00-0003	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$1,358.63
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	Quantity		Unit Price		Factor	Total
Installation	190.00	x	5.95	x	1.2018 =	\$1,358.63

Contractors Note:

180	32 14 16 00-0003	0132	SF	For Quantities > 100 To 500, Add	\$269.44
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	Quantity		Unit Price		Factor	Total
Installation	190.00	x	1.18	x	1.2018 =	\$269.44

Contractors Note:

181	32 16 13 13-0001		LF	6" x 12" Concrete Gutter With 6" Curb And Face - Straight	\$4,041.17
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	Quantity		Unit Price		Factor	Total
Installation	170.00	x	19.78	x	1.2018 =	\$4,041.17

Contractors Note: Furnish and install new concrete curb 6"x12" at west tunnel - north ramp. Line item excludes concrete pumping equipment.

Subtotal for West Ramp - North Tunnel: \$56,591.57

West Ramp - South Tunnel

182	01 22 23 00-0148		WK	700 LB Capacity, 36" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	\$8,750.43
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	Quantity		Unit Price		Factor	Total
Installation	2.00	x	3,640.55	x	1.2018 =	\$8,750.43

Contractors Note: Backhoe / bobcat used to assist in excavation, hauling spoils from work area to parking lot, backfilling and hauling stone from parking lot to parking area at west ramp - south tunnel.

Proposal Review Detail - Category Continued..

Date: November 12, 2019
Work Order #: 068496.01
Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
West Ramp - South Tunnel						
183	01 22 23 00-0163	WK		Backhoe Attachment For Skid-Steer Loaders	\$578.81	
			Quantity	Unit Price	Factor	Total
		Installation	2.00 x	240.81 x	1.2018 =	\$578.81
Contractors Note: Backhoe / bobcat used to assist in excavation, hauling spoils from work area to parking log, backfilling and hauling stone from parking lot to parking area at west ramp - south tunnel.						
184	01 22 23 00-0527	WK		5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	\$9,211.63	
			Quantity	Unit Price	Factor	Total
		Installation	2.00 x	3,832.43 x	1.2018 =	\$9,211.63
Contractors Note: Equipment used to haul removed pavers to pallet and then used to bring pavers back to West Ramp - South Tunnel to be reinstalled.						
185	01 71 13 00-0002	EA		Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$483.89	
			Quantity	Unit Price	Factor	Total
		Installation	2.00 x	201.32 x	1.2018 =	\$483.89
Contractors Note: Mobilize / demobilize bobcat.						
186	01 71 13 00-0003	EA		Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed Note: For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with > 40' boom lengths, etc.	\$1,935.52	
			Quantity	Unit Price	Factor	Total
		Installation	4.00 x	402.63 x	1.2018 =	\$1,935.52
Contractors Note: Mobilize / demobilize equipment including but not limited to bobcat(s), concrete pump truck and loader for west ramp - south tunnel.						
187	01 74 13 00-0003	CY		Collect Existing Debris And Load Into Truck Or Dumpster Note: Per CY of debris removed	\$353.69	
			Quantity	Unit Price	Factor	Total
		Installation	15.00 x	19.62 x	1.2018 =	\$353.69
Contractors Note: Load concrete debris from west ramp - south tunnel into dumpster.						
188	01 74 19 00-0013	EA		20 CY Dumpster (3 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$459.33	
			Quantity	Unit Price	Factor	Total
		Installation	1.00 x	382.20 x	1.2018 =	\$459.33
Contractors Note: Dumpster for concrete and construction debris at the west ramp - south tunnel.						
189	02 41 19 13-0003	SF		Remove Brick Flooring And Salvage	\$1,646.77	
			Quantity	Unit Price	Factor	Total
		Installation	675.00 x	2.03 x	1.2018 =	\$1,646.77
Contractors Note: Assist in removing / loading pavers onto pallet once they are removed.						

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
West Ramp - South Tunnel							
190	02 41 19 13-0089		EA	Saw Cut Minimum Charge Note: For projects where the total saw cutting charge is less than the minimum charge. Use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	\$612.03		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	509.26	1.2018	\$612.03
				x	x	=	
			Contractors Note: Minimum sawcut charge at west ramp - south tunnel.				
191	02 41 19 13-0259		SF	Up To 6" Thick Concrete Cutouts, Up To 8 SF With Light Reinforced, Slab On Grade	\$12,570.11		
				Quantity	Unit Price	Factor	Total
			Installation	310.00	33.74	1.2018	\$12,570.11
				x	x	=	
			Contractors Note: Remove and dispose of existing concrete curb. Curb to be cut into pieces and hauled by buggy to dumpster at the west ramp - south tunnel.				
192	03 11 13 00-0007		SF	Below Grade Walls Foundation Wood Formwork Note: Excludes footing	\$8,857.57		
				Quantity	Unit Price	Factor	Total
			Installation	775.00	9.51	1.2018	\$8,857.57
				x	x	=	
			Contractors Note: Formwork required for furnishing and install new concrete curb at the west ramp - south tunnel.				
193	03 11 13 00-0007	0001	SF	For Quantities < 1000, Add	\$1,676.51		
				Quantity	Unit Price	Factor	Total
			Installation	775.00	1.80	1.2018	\$1,676.51
				x	x	=	
			Contractors Note:				
194	03 21 13 00-0004		TON	Grade 50 Reinforcing Steel, Footings And Slabs, #3-#6	\$654.73		
				Quantity	Unit Price	Factor	Total
			Installation	0.20	2,723.94	1.2018	\$654.73
				x	x	=	
			Contractors Note: Furnish and install new #5 rebar at the west ramp - south tunnel.				
195	03 21 13 00-0004	0021	TON	For Epoxy Coated, Add	\$211.36		
				Quantity	Unit Price	Factor	Total
			Installation	0.20	879.36	1.2018	\$211.36
				x	x	=	
			Contractors Note:				
196	03 31 13 00-0086		CY	150' (46 m) Haul, Non-Motorized, Concrete Buggy	\$603.30		
				Quantity	Unit Price	Factor	Total
			Installation	20.00	25.10	1.2018	\$603.30
				x	x	=	
			Contractors Note: Buggy utilized to haul concrete debris from west ramp - south tunnel to truck or dumpster.				
197	03 31 13 00-0092		CY	Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY	\$54.08		
				Quantity	Unit Price	Factor	Total
			Installation	3.00	15.00	1.2018	\$54.08
				x	x	=	
			Contractors Note: Small concrete delivery upcharge for west ramp - south tunnel.				
198	03 35 16 00-0005		SF	Concrete Floor Finishes, Steel Trowel	\$517.86		
				Quantity	Unit Price	Factor	Total
			Installation	310.00	1.39	1.2018	\$517.86
				x	x	=	
			Contractors Note: Finish new concrete curb at west ramp - south tunnel.				
199	09 01 60 00-0003		SF	Remove Setting Bed And Clean Area	\$2,944.71		
				Quantity	Unit Price	Factor	Total
			Installation	675.00	3.63	1.2018	\$2,944.71
				x	x	=	
			Contractors Note: Remove existing sand bedding to ensure ramps are level.				

Proposal Review Detail - Category Continued..

Date: November 12, 2019
 Work Order #: 068496.01
 Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
West Ramp - South Tunnel							
200	31 05 16 00-0003		CY	#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	\$185.83		
				Quantity	Unit Price	Factor	Total
			Installation	7.00 x	22.09 x	1.2018 =	\$185.83
Contractors Note: Furnish and install new stone as required for new concrete curb at the west ramp - south tunnel.							
201	31 05 16 00-0003	0052	CY	For Quantities Up To 10 (Up To 8 M3), Add	\$51.23		
				Quantity	Unit Price	Factor	Total
			Installation	7.00 x	6.09 x	1.2018 =	\$51.23
Contractors Note:							
202	31 23 36 00-0007		CY	Excavation By Hand Up To 1 On 4 Slope	\$1,491.43		
				Quantity	Unit Price	Factor	Total
			Installation	20.00 x	62.05 x	1.2018 =	\$1,491.43
Contractors Note: Excavate as required to install new curb at the west ramp - south tunnel.							
203	31 23 36 00-0057		LF	Fine Grading Of Curb And Gutter	\$398.64		
				Quantity	Unit Price	Factor	Total
			Installation	310.00 x	1.07 x	1.2018 =	\$398.64
Contractors Note: Fine grading new curb at the west ramp - south tunnel.							
204	32 14 11 00-0002		SF	1" To 2" Sand Bedding, Screeded	\$600.30		
				Quantity	Unit Price	Factor	Total
			Installation	675.00 x	0.74 x	1.2018 =	\$600.30
Contractors Note: Furnish and install additional sand bedding as required.							
205	32 14 16 00-0002		SF	4" x 8" x 2-1/4" Brick Paver, Laid Flat	\$6,493.21		
				Quantity	Unit Price	Factor	Total
			Installation	485.00 x	8.68 x	1.2018 =	\$5,059.34
			Demolition	485.00 x	2.46 x	1.2018 =	\$1,433.87
Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Excludes new material.							
206	32 14 16 00-0002	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$2,005.08		
				Quantity	Unit Price	Factor	Total
			Installation	485.00 x	3.44 x	1.2018 =	\$2,005.08
Contractors Note:							
207	32 14 16 00-0002	0132	SF	For Quantities > 100 To 500, Add	\$542.07		
				Quantity	Unit Price	Factor	Total
			Installation	485.00 x	0.93 x	1.2018 =	\$542.07
Contractors Note:							
208	32 14 16 00-0003		SF	4" x 8" x 2-1/4" Brick, Laid On Edge	\$3,441.11		
				Quantity	Unit Price	Factor	Total
			Installation	190.00 x	12.26 x	1.2018 =	\$2,799.47
			Demolition	190.00 x	2.81 x	1.2018 =	\$641.64
Contractors Note: Remove existing clay pavers and reinstall once concrete repairs are complete. Pavers on the perimeter or each ramp are laid on edge. Excludes new material.							
209	32 14 16 00-0003	0122	SF	For 2-3/4" Thick Paver (Vehicular), Add	\$1,358.63		
				Quantity	Unit Price	Factor	Total
			Installation	190.00 x	5.95 x	1.2018 =	\$1,358.63
Contractors Note:							

Proposal Review Detail - Category Continued..

Date: November 12, 2019

Work Order #: 068496.01

Title: Village of Tinley Park - Train Station 3rd and 4th phase railings Supplemental

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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West Ramp - South Tunnel					
---------------------------------	--	--	--	--	--

210	32 14 16 00-0003	0132	SF	For Quantities > 100 To 500, Add	\$269.44
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Installation	Quantity	Unit Price	Factor	Total
	190.00 x	1.18 x	1.2018 =	\$269.44

Contractors Note:

211	32 16 13 13-0001		LF	6" x 12" Concrete Gutter With 6" Curb And Face - Straight	\$7,369.20
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Installation	Quantity	Unit Price	Factor	Total
	310.00 x	19.78 x	1.2018 =	\$7,369.20

Contractors Note: Furnish and install new concrete curb 6"x12" at west ramp - south tunnel. Line item excludes concrete pumping equipment.

Subtotal for West Ramp - South Tunnel:					\$76,328.50
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Proposal Total					\$803,398.47
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This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals

The Percent of NPP on this Proposal: 30.88%

Metra
TRANSPORTATION SERVICES

DATE: 01/08/09
STATION: BQ 50
PAGE: 21

THANK YOU VERY MUCH FOR YOUR COOPERATION AND ASSISTANCE IN THE PREPARATION OF THIS PLAN.

LEGATARCHITECTS
ARCHITECTS

31 WOODLAWN DRIVE
NAPERVILLE, ILLINOIS 60563
TEL: 630-251-1100

KMI
Kilbourne Media, Inc.

200 W. WASHINGTON ST. SUITE 200
NAPERVILLE, ILLINOIS 60563
TEL: 630-251-1100

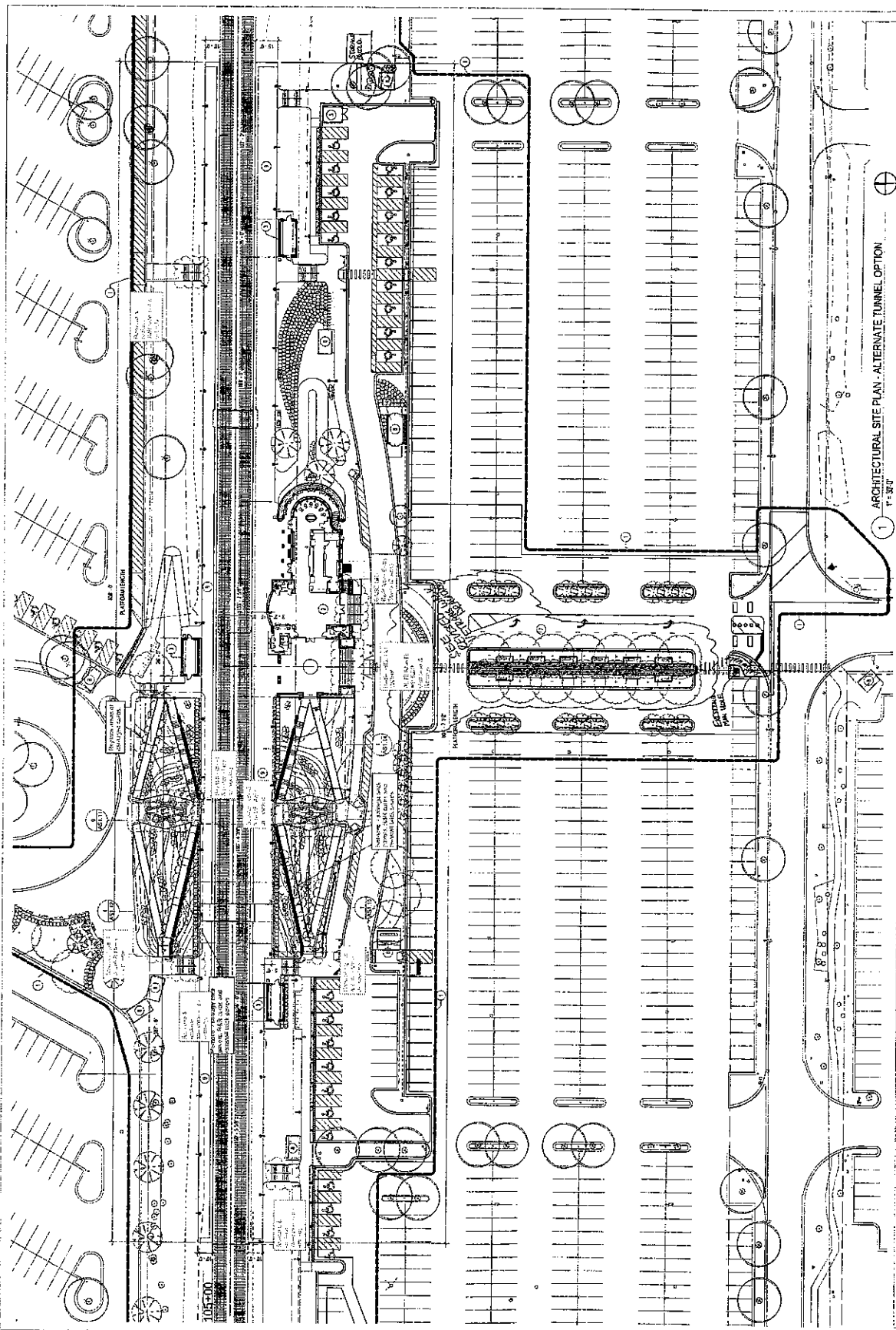
site design group, inc.

1000 W. WASHINGTON ST. SUITE 200
NAPERVILLE, ILLINOIS 60563
TEL: 630-251-1100

1	DATE	01/08/09	REVISION	AS1.000A
2	BY	MM	CHKD	
3	DATE	01/08/09	REVISION	
4	BY	MM	CHKD	
5	DATE	01/08/09	REVISION	
6	BY	MM	CHKD	
7	DATE	01/08/09	REVISION	
8	BY	MM	CHKD	
9	DATE	01/08/09	REVISION	
10	BY	MM	CHKD	

DATE	01/08/09	REVISION	AS1.000A
BY	MM	CHKD	
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DATE	01/08/09	REVISION	
BY	MM	CHKD	

PROJECT: BQ 50
STATION: BQ 50
DATE: 01/08/09



SITE PLAN LEGEND

- 1. UNITS: 20' SQUARE, 40' SQUARE, 60' SQUARE, 80' SQUARE, 100' SQUARE, 120' SQUARE, 140' SQUARE, 160' SQUARE, 180' SQUARE, 200' SQUARE, 220' SQUARE, 240' SQUARE, 260' SQUARE, 280' SQUARE, 300' SQUARE, 320' SQUARE, 340' SQUARE, 360' SQUARE, 380' SQUARE, 400' SQUARE, 420' SQUARE, 440' SQUARE, 460' SQUARE, 480' SQUARE, 500' SQUARE, 520' SQUARE, 540' SQUARE, 560' SQUARE, 580' SQUARE, 600' SQUARE, 620' SQUARE, 640' SQUARE, 660' SQUARE, 680' SQUARE, 700' SQUARE, 720' SQUARE, 740' SQUARE, 760' SQUARE, 780' SQUARE, 800' SQUARE, 820' SQUARE, 840' SQUARE, 860' SQUARE, 880' SQUARE, 900' SQUARE, 920' SQUARE, 940' SQUARE, 960' SQUARE, 980' SQUARE, 1000' SQUARE
- 2. UNITS: 20' SQUARE, 40' SQUARE, 60' SQUARE, 80' SQUARE, 100' SQUARE, 120' SQUARE, 140' SQUARE, 160' SQUARE, 180' SQUARE, 200' SQUARE, 220' SQUARE, 240' SQUARE, 260' SQUARE, 280' SQUARE, 300' SQUARE, 320' SQUARE, 340' SQUARE, 360' SQUARE, 380' SQUARE, 400' SQUARE, 420' SQUARE, 440' SQUARE, 460' SQUARE, 480' SQUARE, 500' SQUARE, 520' SQUARE, 540' SQUARE, 560' SQUARE, 580' SQUARE, 600' SQUARE, 620' SQUARE, 640' SQUARE, 660' SQUARE, 680' SQUARE, 700' SQUARE, 720' SQUARE, 740' SQUARE, 760' SQUARE, 780' SQUARE, 800' SQUARE, 820' SQUARE, 840' SQUARE, 860' SQUARE, 880' SQUARE, 900' SQUARE, 920' SQUARE, 940' SQUARE, 960' SQUARE, 980' SQUARE, 1000' SQUARE
- 3. UNITS: 20' SQUARE, 40' SQUARE, 60' SQUARE, 80' SQUARE, 100' SQUARE, 120' SQUARE, 140' SQUARE, 160' SQUARE, 180' SQUARE, 200' SQUARE, 220' SQUARE, 240' SQUARE, 260' SQUARE, 280' SQUARE, 300' SQUARE, 320' SQUARE, 340' SQUARE, 360' SQUARE, 380' SQUARE, 400' SQUARE, 420' SQUARE, 440' SQUARE, 460' SQUARE, 480' SQUARE, 500' SQUARE, 520' SQUARE, 540' SQUARE, 560' SQUARE, 580' SQUARE, 600' SQUARE, 620' SQUARE, 640' SQUARE, 660' SQUARE, 680' SQUARE, 700' SQUARE, 720' SQUARE, 740' SQUARE, 760' SQUARE, 780' SQUARE, 800' SQUARE, 820' SQUARE, 840' SQUARE, 860' SQUARE, 880' SQUARE, 900' SQUARE, 920' SQUARE, 940' SQUARE, 960' SQUARE, 980' SQUARE, 1000' SQUARE
- 4. UNITS: 20' SQUARE, 40' SQUARE, 60' SQUARE, 80' SQUARE, 100' SQUARE, 120' SQUARE, 140' SQUARE, 160' SQUARE, 180' SQUARE, 200' SQUARE, 220' SQUARE, 240' SQUARE, 260' SQUARE, 280' SQUARE, 300' SQUARE, 320' SQUARE, 340' SQUARE, 360' SQUARE, 380' SQUARE, 400' SQUARE, 420' SQUARE, 440' SQUARE, 460' SQUARE, 480' SQUARE, 500' SQUARE, 520' SQUARE, 540' SQUARE, 560' SQUARE, 580' SQUARE, 600' SQUARE, 620' SQUARE, 640' SQUARE, 660' SQUARE, 680' SQUARE, 700' SQUARE, 720' SQUARE, 740' SQUARE, 760' SQUARE, 780' SQUARE, 800' SQUARE, 820' SQUARE, 840' SQUARE, 860' SQUARE, 880' SQUARE, 900' SQUARE, 920' SQUARE, 940' SQUARE, 960' SQUARE, 980' SQUARE, 1000' SQUARE

ARCHITECTURAL SITE PLAN - ALTERNATE TUNNEL OPTION
P. 21 OF 27

Exhibit B

INSURANCE REQUIREMENTS

(See Risk Manager for Insurance Requirements)



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
09/21/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER MARSH USA INC. 540 W. MADISON CHICAGO, IL 60661 Attn: chicago.CertRequest@marsh.com	CONTACT NAME: PHONE (A/C No. Ext): E-MAIL ADDRESS:		FAX (A/C No):
	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED F.H. Paschen, S.N. Nielsen & Associates LLC 5515 N. East River Road Chicago, IL 60656	INSURER A : Zurich American Insurance Company		16535
	INSURER B : American Zurich Insurance Company		40142
	INSURER C : American Guarantee and Liability Insurance Company		26247
	INSURER D : Indian Harbor Insurance Company		36940
	INSURER E :		
INSURER F :			

COVERAGES **CERTIFICATE NUMBER:** CHI-00866552-06 **REVISION NUMBER:** 3

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			GLO 5833476-06	10/01/2018	10/01/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			BAP5833474-06	10/01/2018	10/01/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			SXS 0222911-02	10/01/2018	10/01/2019	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 2,000,000
B	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	WC 5833475-06 (AOS) WC 5833477-06 (WI)	10/01/2018 10/01/2018	10/01/2019 10/01/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional / Pollution Liability			CEO7420104-05 'SIR: \$250,000'	10/01/2018	10/01/2019	Each Act 5,000,000 Aggregate 5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Village of Tinley Park is/are included as additional insured (except Workers' Compensation) where required by written contract. This insurance is primary and non-contributory over any existing insurance and limited to liability arising out of the operations of the named insured and where required by written contract. Waiver of subrogation is applicable where required by written contract. The Umbrella policy is follow form subject to policy terms, conditions, and exclusions. XCU-Explosion, Collapse, Underground is included on the General Liability policy.

CERTIFICATE HOLDER**CANCELLATION**

Village of Tinley Park 16250 S. Oak Park Ave. Tinley Park, IL 60477	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE of Marsh USA Inc. Manashi Mukherjee <i>Manashi Mukherjee</i>
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ADDITIONAL REMARKS SCHEDULE

AGENCY MARSH USA INC.		NAMED INSURED F.H. Paschen, S.N. Nielsen & Associates LLC 5515 N. East River Road Chicago, IL 60656	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
 FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

Umbrella Liability
 Insurer: XL Specialty Insurance Company
 Policy Number: US00076565L118A
 Policy Period: 10/01/2018 - 10/01/2019
 Each Occurrence: \$25,000,000
 Aggregate: \$25,000,000
 SIR: \$10,000

First Layer Excess Liability
 Insurer: Endurance American Insurance Company
 Policy Number: EXC10004227005
 Policy Period: 10/01/2018 - 10/01/2019
 Each Occurrence: \$25,000,000
 Aggregate: \$25,000,000

List any determinations by a court or governmental agency for violations of federal, state or local laws, including but not limited to violations of contracting or antitrust laws, tax or licensing laws, environmental laws, the Occupational Safety and Health Act (OSHA), the National Labor Relations Act (NLRA), or federal Davis-Bacon and related Acts.

Date	Law	Determination	Penalty



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
CATH-I.R. Labs Remodel Chicago, IL	University of Illinois - Chicago Branko Bogicevic (312) 355-5661	Loebl Schlossman & Hackl	\$876,644	4/20/2020
Holden Elementary School Chicago, IL	Chicago Public Schools Jeffrey Havel (772) 553-6548	McGuire Igleski & Associates	\$395,683	4/17/2020
WMATA Escalator Canopies College Park, MD	Washington Metropolitan Area Transit Authority Patrick Yerdon	Gannett Flemming	\$28,117,000	4/15/2020
O'Hare Runway 9R-27L Extension- West Chicago, IL	Chicago Department of Aviation Jeff Wytaniec (773) 686-2200	Chicago Airport Runway Designers (CARD)	\$65,567,396	4/13/2020
Rush University Medical Center 150 TOB Wellness Office Chicago, IL	Rush University Medical Center Mateusz Piczura (312) 942-6766	Tailored Nest	\$531,670	4/1/2020
South Keefe Ave. Underpass Rehab Chicago, IL	Norfolk Southern Corporation Jonathan Hocker (404) 529-1362	HDR, Inc.	\$1,811,080	3/31/2020
Pathways for Student Success Office Renovation IL	College of DuPage Chris Wosachlo (630) 942-4225	Cordogan Clark & Associates	\$1,026,900	3/20/2020
Dearborn Subway Grand, Chicago, & Division Station Renovations Chicago, IL	Chicago Transit Authority William Polacek (312) 681-3934	Muller & Muller	\$29,955,000	3/18/2020
Chicago's First Lady Ticket Facility Enhancement Chicago, IL	Mercury Boat Charters Bob Agra (312) 332-1353	Eckenhoff Saunders Architects	\$270,000	3/13/2020



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Peoples Gas Central Shop Chicago, IL	Peoples Gas Thomas Crylen (312) 240-4000	Epstein	\$44,500,000	3/11/2020
3rd Floor Loudoun County Government Center Renovation Leesburg, VA	Loudoun County Arnold Keplinger (703) 258-3228	Karl Riedel Architecture	\$1,225,218	3/9/2020
Till Math & Science Academy Chicago, IL	Chicago Public Schools Jeffrey Havel (772) 553-6548	McGuire Ileski & Associates	\$455,633	2/28/2020
Burr Ridge Call Center Relocation Burr Ridge, IL	The University of Chicago Medical Center Michael Parr (773) 702-6041	Architrave	\$1,329,600	2/20/2020
Clissold Elementary School Chicago, IL	Chicago Public Schools David Zilmer (773) 553-1268	Woodhouse Tinucci Architects	\$3,163,000	2/7/2020
UCM Bridge and Entrance Weatherization Chicago, IL	The University of Chicago Medical Center Mark Ihde (773) 834-1945		\$685,436	1/31/2020
Burroughs Elementary School Chicago, IL	Chicago Public Schools Jeffrey Havel (772) 553-6548	McGuire Ileski & Associates	\$396,633	1/27/2020
Fenger Academy High School Chicago, IL	Chicago Public Schools Jeffrey Havel (772) 553-6548	McGuire Ileski & Associates	\$301,683	1/27/2020
Spry Elementary School Chicago	Chicago Public Schools Jeffrey Havel (772) 553-6548	McGuire Ileski & Associates	\$471,683	1/24/2020



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
South Water Purification Plant - Replace Switchgear & Add Standby Power Chicago, IL	City of Chicago - Department of Water, M.G. Electric Service Co. Tom Desideri (847) 439-7500	AECOM	\$8,730,000	1/17/2020
CCHHS North Riverside Health Center Renovation/Replacement North Riverside, IL	Cook County Health & Hospital System Joe Washington (312) 989-8640	Holabird & Root Architects	\$5,510,000	1/17/2020
Ravenswood Ballasted Track Improvements Chicago, IL	Chicago Transit Authority John Reinitz (312) 644-7200	Chicago Transit Authority	\$10,609,000	1/6/2020
Peoples Gas North Shop Field Service Center Chicago, IL	Peoples Gas Thomas Crylen (312) 240-4000	Epstein	\$48,498,000	1/3/2020
Barrington Road Pedestrian Bridge and Access Building Hoffman Estates, IL	Illinois State Toll Highway Authority Rick Hanba (630) 241-6231	Crawford, Murphy & Tilly, Inc. Consulting Engineers	\$7,182,000	12/31/2019
Indiana University Chemistry Labs A701 & A710 Bloomington, IN	Indiana University Steve Freeman (812) 855-1762	Indiana University	\$260,605	12/31/2019
USMC Revenue Cycle Consolidation Burr Ridge, IL	The University of Chicago Medical Center Jennifer Merchant (773) 834-3483	Baumann Studios	\$679,878	12/4/2019
RR-19-4451 I-88 Pavement/Structural Rehab/Preservation North Aurora, IL	Illinois State Toll Highway Authority	Lochmueller Group	\$8,190,544	11/23/2019



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
ORD Airport Restroom Modernization Phase 5 Chicago, IL	Chicago Department of Aviation Cortney Harris (773) 686-5970	Epstein	\$8,066,000	11/22/2019
Men's Locker Room Renovation Bloomington, IN	Indiana University Jeff Moulden (812) 855-1737	CSO Architects, Inc.	\$641,100	11/15/2019
Pool Addition and Mechanical Upgrades Chicago Heights, IL	Chicago Heights Park District Frank Perez (708) 755-1351	Studio Arq	\$2,415,778	10/16/2019
CPS Whitney Elementary Chicago, IL	Chicago Public Schools Dave Grouzard (312) 655-9207	Fox & Fox Architects	\$5,200,000	9/24/2019
UIC Clinical Performance Center Chicago, IL	University of Illinois - Chicago Branko Bogicevic (312) 355-5661	Holabird & Root Architects	\$3,089,000	9/4/2019
Tuckahoe ES School Waterproofing	Arlington Public Schools		\$232,777	9/1/2019
Prosser Academy Chicago, IL	Chicago Public Schools Jeffrey Havel (772) 553-6548	McGuire Iglesias & Associates	\$1,204,000	8/27/2019
Julian High School Chicago, IL	Chicago Public Schools Jeffrey Havel (772) 553-6548	McGuire Iglesias & Associates	\$465,000	8/23/2019
Chicago High School for Agricultural Sciences Chicago, IL	Chicago Public Schools Jeffrey Havel (772) 553-6548	McGuire Iglesias & Associates	\$426,000	8/23/2019
Design/Build Services for Security Improvements (multiple schools) Multiple, MD	Calvert County Public Schools Darrell Barricklow (433) 550-8773	Penza Bailey Architects	\$360,900	8/16/2019



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Posen Intermediate and Kellar Middle School Posen, IL	Posen Robbins School District 143.5 Michael Moore (708) 388-3868	Legat Architects, Inc.	\$1,818,000	8/16/2019
Innovation Center & Entry Renovations Carol Stream and Hanover Park, IL	Community Consolidated School District 93 Sean Gordon (630) 539-3330	ARCON Associates	\$5,179,000	8/8/2019
D/B Flex Facilities Upgrades Buffalo Grove, IL	Flex, Inc. Robin Holmberg (770) 840-8797	Reifsteck Reid & Company	\$14,281,026	8/5/2019
UIC College of Nursing Simulation Laboratory Chicago, IL	University of Illinois - Chicago Bill Bradford (312) 996-9101	Urban Works, Ltd.	\$3,088,550	8/1/2019
RR-17-4314 I-294 Pavement & Structural Preservation Des Plaines, IL	Illinois State Toll Highway Authority John Szabo (630) 214-6800	HOH Architects & Associates Inc.	\$13,479,364	7/31/2019
Administrative Building Remodel Glen Ellyn, IL	College of DuPage Chris Wosachlo (630) 942-4225	Legat Architects, Inc.	\$4,240,000	7/29/2019
Armour Wetlab Renovation Chicago, IL	Rush University Medical Center Burcu Kuscu (312) 942-6378	Moody Nolan	\$402,900	7/24/2019
Harrison St. Traffic Calming Measures Chicago, IL	University of Illinois at Chicago - UIH Pam Hill (312) 413-1905	Knight E/A, Inc.	\$749,000	7/18/2019
Ancient DNA Renovation Chicago, IL	The University of Chicago Medical Center	Architrave	\$730,115	7/16/2019
I-18-4390 I-294 O'Hare Oasis Bridge Demolition & Grading Schiller Park, IL	Illinois State Toll Highway Authority	Rubinos & Mesia Engineers Inc	\$5,117,475	6/30/2019



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
South St. Lawrence Ave Underpass Chicago, IL	Norfolk Southern Corporation	HDR, Inc.	\$1,863,820	6/28/2019
Jefferson Park Library Renovations Chicago, IL	Chicago Department of General Services Hamzah Zoubi (312) 590-7820		\$1,415,153	6/28/2019
O'Hare Vault Modifications Phase 1, Package 2, Terminal 5 (314.1F.2.2) Chicago, IL	ORD Fuel Company Mike Toth (630) 379-1518		\$2,012,000	6/18/2019
U of I Urbana Vet Teaching Hospital LINAC Addition Urbana, IL	University of Illinois - Urbana James Slack (217) 224-1162	Reifsteck Reid & Company	\$1,495,000	5/30/2019
Chicago Riverwalk Esplanade Site Improvements Chicago, IL	Chicago Department of General Services Kevin Dwyer (312) 995-4129	Muller & Muller	\$3,490,000	5/10/2019
95th Street Terminal Improvement Project Chicago, IL	Chicago Transit Authority Robert Wittmann (312) 681-3853	EXP	\$200,000,000	4/27/2019
Park Ridge City Hall Basement/Police Department Remodel Park Ridge, IL	City of Park Ridge Bruce Flowers (847) 318-7948	Batir Architecture	\$725,892	4/15/2019
Lathrop Homes River Front Improvements Chicago, IL	Lend Lease Scott Weyman (312) 287-8039	bKL Architecture LLC	\$5,663,000	4/8/2019
DCA PSA Crew Base Establishment Washington, DC	American Airlines, Inc. Abigail Zarate (571) 444-1606		\$39,450	4/2/2019



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Western Springs Metra Platforms Western Springs, IL	Illinois Department of Transportation	James J. Benes & Associates	\$2,998,009	3/31/2019
MKE Station Improvements Milwaukee, WI	Southwest Airlines Co. Ryan Kolczynski (708) 595-2210	GRAEF	\$929,030	3/15/2019
Chicago Ave Interim Bridge Chicago, IL	Chicago Department of Transportation Mayur Patel (312) 744-4873	Collins Engineers Inc.	\$5,995,818	2/11/2019
ARFF #2 Chicago, IL	Chicago Department of Aviation Matthew McGleam (773) 894-3033	Ghafari Associates	\$16,563,942	2/9/2019
Dean Peck 1st Floor Renovation Chicago, IL	The University of Chicago Medical Center Girard Jenkins (773) 702-1918	Middough Inc.	\$1,570,926	2/1/2019
Office of Inspector General Office Renovation Chicago, IL	Chicago Public Schools	KOO & Associates, Ltd.	\$540,000	2/1/2019
Skinner West Elementary School Annex Chicago, IL	Public Building Commission Paulo Hernandez (312) 744-9266	SWWB Architects	\$11,804,000	1/11/2019
BWI CCTV System Baltimore, MD	American Airlines, Inc. Jennifer Tindel (817) 963-1726	Burns & McDonnell	\$208,999	1/10/2019
Curie High School Chicago, IL	Chicago Public Schools Kevin Carey (847) 962-6728	Bauer Latoza Studio	\$15,530,895	12/31/2018
Oakton Community College West End Building Renovation Des Plaines	Oakton Community College Richard Schwass (847) 635-1783	Perkins & Will	\$5,420,490	12/31/2018



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Viaducts Structural & Drainage Repairs Chicago, IL	Skyway Concession Company LLC Erick Rivera (773) 356-5537	Fuhrmann Engineering Inc.	\$2,563,306	12/31/2018
UIC University Hall Facade Repair Chicago, IL	University of Illinois - Chicago William Bradford (312) 996-9101	RATIO Architects	\$19,350,000	12/30/2018
O'Hare Runway 9C-27C Bid Package # 1 Chicago, IL	Chicago Department of Aviation Frank Grimaldi (773) 686-2200	HNTB Architects Engineers Planners	\$98,538,871	12/26/2018
Emiliano Zapata Annex Chicago, IL	Public Building Commission Lakeisha Lindsey (312) 802-3904	Architrave	\$16,000,000	12/21/2018
Esmond Elementary School Annex & Renovations Chicago, IL	Public Building Commission Andy Quathammer (312) 744-3090	Onyx Architectural Service	\$12,265,000	12/21/2018
PBC Mt. Greenwood ES Annex II Chicago, IL	Chicago Public Schools	E.C. Purdy & Associates	\$9,807,000	12/21/2018
41st Street Pedestrian Bridge Over South Lake Shore Drive Chicago, IL	Chicago Department of Transportation Tanera Adams (312) 742-2590	AECOM	\$28,704,245	12/14/2018
35th Street Bridge Over the South Fork Structural Repairs Chicago, IL	Chicago Department of Transportation Mayur Patel (312) 744-4873	Collins Engineers Inc.	\$547,050	12/11/2018
RR-17-4340 I-355 Pavement & Structural Preservation Lemont, IL	Illinois State Toll Highway Authority	EJM Engineering, INC.	\$4,703,621	12/1/2018
Superior Graphite P2 Lab BuildOut Bedford Park, IL	Superior Graphite Pat Kalisz (708) 458-0006	RADA Architects Ltd.	\$1,872,555	11/29/2018



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Southwest Airlines IND Ramp & ATO Renovations Indianapolis, IN	Southwest Airlines Co. Chris Bolger (214) 792-4572	Multatech Architects and Engineers	\$558,080	11/26/2018
Lakemoor Roadway Improvements Lakemoor, IL	Village of Lakemoor Todd Weihofen (847) 878-5727	Knight E/A, Inc.	\$5,821,829	11/15/2018
Cook County Administration Building (CCAB) Adult Probation Renovations Phase II Chicago, IL	Cook County Sheila Atkins (312) 603-0336	RADA Architects Ltd.	\$1,179,862	11/9/2018
Chicago Park District Group B - Archer Park Facility Rehabilitation Chicago, IL	Chicago Park District Stephen Grant (312) 742-7529	Bailey Edward Architecture	\$746,000	11/7/2018
Chicago Park District Group B - McKinley Park Facility Rehabilitation Chicago, IL	Chicago Park District Stephen Grant (312) 742-4649		\$676,000	11/5/2018
O'Hare Ring & Utility Tunnel Concrete Repairs Chicago, IL	Chicago Department of Aviation David Robbins (773) 462-7539	Epstein	\$2,928,125	11/2/2018
Chicago Skyway Canopy Renovation (SCC2017-02) Chicago, IL	Skyway Concession Company LLC Michael Lowrey (337) 356-5528	Skidmore Owings & Merrill	\$4,050,000	11/1/2018
IDOT Pump Station No. 14 Renovation Riverdale, IL	Illinois Department of Transportation Erica Young (708) 367-1093	Donohue & Associates	\$2,964,364	10/26/2018
Whitney M. Young Jr. Branch Library - Renovation and Expansion Chicago, IL	Public Building Commission Desmond Truite (773) 398-1105	Johnson & Lee Architects	\$4,494,999	10/12/2018



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Schaumburg Park District CRC Renovation Phase 2 Schaumburg, IL	Schaumburg Park District Niki Rao (847) 985-2115	Wallin/Gomez Architects, Ltd.	\$1,931,500	10/12/2018
Orland Park Fitness Center Locker Room Renovation Orland Park, IL	Village of Orland Park John Ingram (708) 403-6104	Studio GC Architecture+Interiors	\$339,429	10/12/2018
Buffalo Grove Police Station Break Room & Interview Room Buffalo Grove, IL	Buffalo Grove Police Department Brett Robinson (847) 537-1742	Wold Ruck Pate	\$78,797	10/12/2018
GEM Facility Chicago, IL	American Airlines, Inc. Ronald LaDuke (773) 686-3259	Frankfurt-Short-Bruza Associates, PC.	\$47,697,584	10/1/2018
71st St. Underpass Rehab Westchester, IL	Norfolk Southern Corporation Jonathan Hocker (404) 529-1362	HDR, Inc.	\$1,606,778	9/30/2018
Chicago Bee Library Renovations Chicago, IL	Chicago Department of General Services Michael Williams (312) 744-5303		\$2,108,668	9/28/2018
Kelly Library Exterior Repairs & Interior Renovations Chicago, IL	Chicago Department of General Services Marek Wisniewski (312) 744-5369		\$1,493,193	9/28/2018
United Airlines Hold Room Configuration Arlington, VA	United Airlines	PGL	\$268,563	9/28/2018
Field Elementary School New Campus Park Chicago, IL	Chicago Public Schools Jorge Chavez (773) 850-8655	FGM Architects	\$1,133,000	9/20/2018



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Bernhard Moos Elementary School ROF Chicago, IL	Chicago Public Schools Jorge Chavez (773) 850-8655	FGM Architects	\$3,559,000	9/19/2018
Byrne Elementary School Annex Chicago, IL	Public Building Commission Jeffrey Strauts (312) 795-1400	Ilekis Associates	\$13,611,000	8/31/2018
Chicago Waldorf School Trumbull Building Renovation Chicago, IL	The Chicago Waldorf School Luke Goodwin (773) 381-1327	Architrave	\$3,192,563	8/20/2018
CPS Lenart Elementary School Chicago, IL	Chicago Public Schools	Fox & Fox Architects	\$1,911,000	8/18/2018
Field Elementary School ROF Chicago, IL	Chicago Public Schools Jorge Chavez (773) 850-8655	FGM Architects	\$3,472,000	8/17/2018
Helen Hefferan School Renovation Chicago, IL	Chicago Public Schools Rob Christlieb (312) 965-6434	E.C. Purdy & Associates	\$3,702,000	7/30/2018
Southwest Airlines STL-GSE St. Louis, MO	Southwest Airlines Co. Chris Bolger (214) 792-4572	FoxArchitects	\$248,000	7/25/2018
Locker Room and Lunchroom Renovation Chicago Heights, IL	Thorn Creek Basin Sanitary District Lucas Streicher (708) 754-0525		\$161,443	7/2/2018
UCM Chest Unit DCAM 1557 Chicago, IL	The University of Chicago Medical Center Bill Dawes (773) 834-9172	Harley Ellis Devereaux	\$85,760	6/6/2018



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Hyatt Place Chicago, IL	Exemplary Builders Inc. Nick Psychogios (312) 437-9399		\$686,000	6/1/2018
Southwest Airlines IND-GSE Shop Renovation Indianapolis, IN	Southwest Airlines Co. Chris Bolger (214) 792-4572	GRAEF	\$401,030	5/21/2018
Armory Building - South Exterior Envelope & Floors 1 & 2 Remodeling Champaign, IL	University of Illinois at Urbana-Champaign Nick Stanev (217) 265-6789	White & Borgognoni Architects, P.C.		5/14/2018
O'Hare Vault Modifications Package 2 Chicago, IL	ORD Fuel Company Mike Toth (630) 379-1518	Amec Foster Wheeler	\$348,800	5/4/2018
Buffalo Grove Park District Community Arts Center Interior Renovation Buffalo Grove, IL	Buffalo Grove Park District Tim Howe (847) 850-2163	Legat Architects, Inc.	\$2,655,000	4/13/2018
Oakton Community College Student Street Renovation Phase 2 Des Plaines, IL	Oakton Community College Richard Schwass (847) 635-1783	Perkins & Will	\$1,462,000	4/6/2018
AA O'Hare Concourse L Stinger Chicago, IL	American Airlines, Inc. Ronald LaDuke (773) 686-3259	Corgan	\$56,584,268	3/30/2018
Engine Company 4 Interior Finishes Upgrades Chicago, IL	Chicago Department of General Services Ayse Kalaycioglu (312) 744-4749		\$391,102	3/26/2018
Jose De Diego Elementary Community Academy Chicago, IL	Chicago Public Schools	Doyle & Associates	\$5,396,000	3/12/2018



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Sulzer Library Renovations Chicago, IL	Chicago Department of General Services Marek Wisniewski (312) 744-5369		\$2,212,543	3/7/2018
UIC Hospital 5th Floor NW Postpartum Renovation Chicago, IL	University of Illinois at Chicago - UIH Pam Hill (312) 413-1905	Bailey Edward Design	\$1,344,100	3/2/2018
Aurora Interior Remodel at Development Services Center Aurora, IL	City of Aurora Jim Birchall (630) 256-3491	Batir Architecture	\$392,105	3/2/2018
Chicago Police Department Technology Build Out 12 Chicago, IL	Department of Fleet & Facilities Management Nick Peterson (312) 744-5369		\$120,000	2/16/2018
Replacement of 3 Bus Wash and Reclaim Systems Chicago, IL	Pace Bus Daniel Levinson (847) 228-4230	Pace Bus	\$1,196,700	2/15/2018
University of Illinois at Chicago - UIH Emergency and Triage Remodeling Chicago, IL	University of Illinois at Chicago - UIH Pam Hill (312) 413-1905	Shive-Hattery	\$2,455,000	1/29/2018
Clark Elementary Chicago, IL	Chicago Public Schools	Fox & Fox Architects	\$2,167,000	1/8/2018
Bridge 47C Reconstruction Dixmoor, IL	Indiana Harbor Belt Railroad	Bowman Barrett & Associates	\$5,033,105	12/26/2017
USPS CIMSC - Tug Road Paving Chicago, IL	United States Postal Service (USPS) Don Kandl (630) 295-6239	Heitman Architects Incorporated	\$350,000	12/15/2017
Michelle Clark High School Chicago, IL	Chicago Public Schools	Fox & Fox Architects	\$6,228,000	12/8/2017



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Skyway Bolt and Gusset Plate Repairs Chicago, IL	Skyway Concession Company LLC Erick Rivera (773) 356-5537	AECOM	\$2,494,720	12/8/2017
University of Chicago Medicine CCD Operating Room Activation Chicago, IL	The University of Chicago Medical Center Michael Parr (773) 702-6041		\$152,027	12/6/2017
Cesar Chavez Renovations Chicago, IL	Chicago Public Schools Rob Christlieb (312) 965-6434	E.C. Purdy & Associates	\$1,736,000	11/27/2017
Washington/Wabash Loop Elevated CTA Chicago, IL	Chicago Department of Transportation Julian Silva (773) 842-3282	EXP	\$74,850,000	11/25/2017
Elgin O'Hare Western Access Tollway - West of Park Blvd (MP 10.1) to Arlington Hts Rd (MP 13.6) Itasca, IL	Illinois State Toll Highway Authority Paul Kovacs (630) 241-6800	CH2M Hill	\$59,117,000	11/1/2017
Elmhurst Rd West Bridge and Interchange at I-90 Des Plaines & Elk Grove Village, IL	Illinois State Toll Highway Authority Hope Garrett (630) 241-6800	Elmhurst JV, BLA, 2IM Group	\$29,837,596	10/31/2017
O'Hare Airport Maintenance Complex Expansion Chicago, IL	Chicago Department of Aviation Ginger Evans	Muller & Muller	\$17,664,273	10/31/2017
Carol Stream Fire Protection District Carol Stream, IL	Carol Stream Fire Protection District Perry Johnson	Cemcon, Ltd.	\$500,000	10/31/2017
Loudoun County Interior Demolition Leesburg, VA	Loudoun County Artie Right (571) 258-3762	Moseley Architects	\$727,546	10/24/2017



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Harrison/Dever Crib Complex Structural Renovations Chicago, IL	Chicago Department of Water Management Samuel Wit (312) 742-0747	Crawford, Murphy & Tilly, Inc. Consulting Engineers	\$5,093,964	10/16/2017
Blackstone Library Repairs and Renovations Chicago, IL	Chicago Department of General Services Michael Gross (312) 744-5369		\$789,998	10/13/2017
O'Hare Admirals Club and Flagship Lounge Chicago, IL	American Airlines, Inc. Ronald LaDuke (773) 686-3259	Ghafari Associates	\$27,129,344	10/12/2017
Solar Inverter Replacement Chicago, IL	Cook County- Office of Capital Planning Jamie Meyers (312) 603-0314		\$155,839	10/8/2017
Sumter County P&R - Boone Park Site Improvements Americus, GA	Sumter County Parks and Recreation Tim Estes (229) 924-4878		\$249,951	10/1/2017
Springfield Ave. Pumping Station Electrification Chicago, IL	Chicago Department of Water Management Cyrus McMains (773) 278-1679	AECOM	\$64,593,091	9/30/2017
Item 166 - Irving Park Rd at York Road Bensenville, IL	Illinois Department of Transportation Daniel Novak (630) 595-5350	Knight E/A, Inc.	\$17,562,291	9/29/2017
Vaughn Occupational High School Elevator Replacement Chicago, IL	Chicago Public Schools Jack O'Connell (773) 553-3297	McGuire Igleski & Associates	\$359,000	9/25/2017



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Roberto Clemente Community Academy High School Chicago, IL	Chicago Public Schools Arun Kumar (312) 450-5998	FGM Architects	\$306,049	9/25/2017
P&DC Replace Exterior Metal Wall Panels Palatine, IL	USPS Great Lakes Facilities Service Office Yusuf Ahmed (630) 295-6258	Heitman Architects Incorporated	\$648,000	9/16/2017
John J. Audubon Elementary School Chicago, IL	Chicago Public Schools Arun Kumar (312) 450-5998	Tilton, Kelly + Bell, LLC	\$1,085,000	9/15/2017
IAD-Back Office and Employee Break Space Refresh Dulles, VA	American Airlines, Inc. Jennifer Tindel (817) 963-1726	Burns & McDonnell	\$67,800	9/11/2017
American Airlines DCA Center Pier Washington, DC	American Airlines, Inc. Jennifer Tindel (817) 963-1726	PGL	\$328,454	9/10/2017
O'Hare Coffey Road Chicago, IL	Chicago Department of Aviation Frank Grimaldi (773) 686-2200	TranSystems Corp.	\$13,494,112	9/1/2017
Amundsen High School Chicago, IL	Chicago Public Schools Benjamin Kogan (312) 351-1748	KOO & Associates, Ltd.	\$1,820,000	8/25/2017
O'Hare ATS Extension Chicago, IL	Chicago Department of Aviation Frank Grimaldi (773) 686-2200	TranSystems Corp.	\$12,187,060	8/24/2017
Centre of Elgin Pool Repairs Elgin, IL	City of Elgin Rich Hoke (847) 931-5650		\$1,052,230	8/24/2017



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Juvenile Temporary Detention Center - Elevator Modernization Chicago, IL	Cook County Sheila Atkins (312) 603-0336		\$914,220	8/22/2017
South Pointe Park - Fountain Remediation Miami Beach, FL	City of Miami Beach Jorge Rodriguez (305) 673-7071	EDSA	\$2,137,750	8/18/2017
USPS Great Lakes FSO Columbus, IN	United States Postal Service (USPS) Terri Muir (812) 378-3521		\$131,785	8/15/2017
CPS Stevenson Branch School Roof Replacement and Renovations Chicago, IL	Chicago Public Schools Benjamin Kogan (312) 351-1748	FGM Architects	\$997,000	8/11/2017
Downtown Beautification Project - Flagler St. Miami, FL	City of Miami David Adato (305) 416-1899	BCC Engineering	\$10,065,779	8/4/2017
Deerfield Exterior Entrance Deerfield, IL	CBRE, Inc Ryan Collins (847) 572-1403	Wright Heerema Architects	\$553,900	8/3/2017
51st Street Drainage Improvements Chicago, IL	Norfolk Southern Corporation Howard Swanson (404) 527-2729	Jacobs Engineering	\$1,983,000	8/2/2017
ORD ATS Maintenance and Storage Facility Expansion Chicago, IL	Chicago Department of Aviation, O'Hare Modernization Program, Parsons Construction Group Jamie Rhee (312) 744-9750	TranSystems Corp.	\$6,177,025	7/31/2017
Ada Park and Rainbow Beach - Field Houses Masonry Restoration Chicago, IL	Chicago Park District Stephen Grant (312) 742-7529	Chicago Park District	\$718,360	7/28/2017



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Toronto Roof Replacement Toronto, OH	USPS Eastern Facilities Service Office David Pilarczyk (630) 295-6236	Karl R. Rohrer Associates Inc	\$141,241	7/21/2017
Lakefront Trail/Navy Pier Flyover Improvement Chicago, IL	Chicago Department of Transportation Brian Blahous (630) 730-6605	T.Y. Lin International	\$25,489,809	7/19/2017
Design-Build Evanston Batch Plant Facility Evanston, IL	Ozinga Ready Mix Concrete, Inc. Greg Vander Velde (708) 326-4360	MJC Architecture	\$6,600,000	7/14/2017
Western Ave. Viaduct over Belmont Ave. Chicago, IL	Chicago Department of Transportation Conan Chan (312) 405-1546	Burns & McDonnell	\$27,191,896	6/30/2017
PACE S. Holland Location Flood Repairs South Holland, IL	Pace Bus Kathleen Eul (847) 228-4261		\$106,000	6/27/2017
1565-046 OCC Linac Project Chicago, IL	University of Illinois - Chicago Fred Dobry (312) 966-7115	Loebl Schlossman & Hackl	\$203,875	6/1/2017
Policy Academy emergency Upgrades to Admin Area Chicago, IL	Facilities Management Sean Neurt (312) 742-1687		\$499,865	5/5/2017
Circleville Roof Replacement Circleville, OH	USPS Great Lakes Facilities Service Office Dave Pilarczyk (630) 295-6236	Karl R. Rohrer Associates Inc	\$183,725	4/28/2017
Matthew Maury Playgroup Revitalization Project Alexandria, VA	Alexandria City Public Schools Paul May (703) 619-8021	Bowman Consulting	\$1,165,000	4/21/2017



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
North Riverside Armory - Replace Roof, Upgrade Exterior CSMS Facility North Riverside, IL	Capital Development Board Amber Dooley (214) 524-0094	Doyle & Associates	\$682,000	4/18/2017
UCPF-UCM Finance Offices Burr Ridge, IL	The University of Chicago Medical Center Mark Ihde (773) 834-1945	Architrave	\$932,218	4/14/2017
Indiana Memorial Union Biddle Hotel Guest Rooms Renovation Bloomington, IN	Indiana University Steve Freeman (812) 855-1762	CSO Architects, Inc.	\$5,741,433	4/10/2017
Michigan Avenue Floor Beam Repair IL	Chicago Department of Transportation Emilie Becq-Giraudon (312) 744-3600		\$1,029,990	4/6/2017
Partial Demo & Repair Bridge 1, 2, 3 Chicago, IL	ComEd Juan Rodriguez (630) 576-6134	AECOM	\$2,445,000	3/31/2017
Stroger Hospital 3rd Floor Renovations Chicago, IL	Cook County Health & Hospital System	Tilton, Kelly + Bell, LLC	\$3,218,000	3/31/2017
Criminal Courts Administration Building Adult Probation Renovation Chicago, IL	Cook County, Cook County- Office of Capital Planning Sheila Atkins (312) 603-0336	RADA Architects Ltd.	\$1,261,408	2/28/2017
DCA-PSA Crew Base Establishment Phase 1 Washington, DC	American Airlines, Inc. Jennifer Tindel (817) 963-1726	Burns & McDonnell	\$33,116	2/28/2017



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Cook County Department of Corrections Demolition of Division 3 and 17 Chicago, IL	Cook County, Cook County- Office of Capital Planning Sheila Atkins (312) 603-0336	Milhouse Engineering & Construction	\$2,646,402	2/20/2017
Rosemont Transit Center - Reorganization Supplemental Rosemont, IL	Cook County Department of Highways Noel Basquin	d'Escoto, Inc.	\$1,272,360	1/12/2017
Schaumburg Park District- Remodeling at Bock Center and Schaumburg Tennis Plus Schaumburg, IL	Schaumburg Park District Niki Rao (847) 985-2115	Williams Architects	\$1,709,775	1/9/2017
Design-Build Des Plaines Batch Plant Facility Des Plaines, IL	Ozinga Ready Mix Concrete, Inc. Greg Vander Velde (708) 326-4360	MJC Architecture	\$7,500,000	12/30/2016
IDOT - Item 193 - Taylor Street Bridge Rehab/Widening (FAI 90/94) Chicago, IL	Illinois Department of Transportation Patrick Walsh	AECOM	\$17,743,429	12/20/2016
USPS Atlanta P&DC Paving Upgrade Atlanta, GA	USPS Eastern FCCMT Rowena Vasquez (336) 605-3547	Amec Foster Wheeler	\$2,588,806	12/1/2016
New Blue Line Five Station Renovations (Addison, Irving Park, Montrose, Harlem & Cumberland) Chicago, IL	Chicago Transit Authority Steven Mascheri (312) 681-3873	Muller & Muller	\$27,683,767	11/22/2016
I-90 Arlington Hts. Road to Oakton St. Elk Grove Village, IL	Illinois State Toll Highway Authority Jeffrey Allen (630) 241-6800	Crawford, Murphy & Tilly, Inc. Consulting Engineers	\$32,112,429	11/18/2016
CCICS 102 Student Health & Counseling Services Chicago, IL	Northeastern Illinois University Hemant Shah (773) 442-5243	EXP	\$71,750	11/16/2016



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
George Washington Monument Repair Chicago, IL	Chicago Department of Transportation Jenelle Hill (312) 744-4686		\$790,579	11/10/2016
188th Street Park Aventura, FL	City of Aventura Antonio Tomei (305) 466-8910	Bermello, Ajamil & Partners, Inc	\$1,665,590	11/7/2016
Lemont Branch Lemont, IL	MB Financial Bank Tracey Ernst (847) 653-2417	Charles Vincent George Architects	\$1,282,398	11/4/2016
Miami-Ozinga Batch Plant #1 Miami, FL	Wintergreen Properties LLC (Ozinga) Mark Jackson	Merritt Engineering Consultants	\$620,000	11/4/2016
East River Road Bridge over I-90 Chicago, IL	Illinois Department of Transportation Sal Dajani	HNTB Architects Engineers Planners	\$10,318,520	10/31/2016
Norfolk Southern over Cottage Grove Avenue Chicago, IL	Norfolk Southern Corporation Howard Swanson (404) 527-2729	Patrick Engineering	\$2,525,000	10/31/2016
I-90 Roadway & Bridge Widening - Mannheim Rd (MP 76.6) to Kennedy Exp (MP 78.9) Des Plaines, IL	Illinois State Toll Highway Authority Jeffrey Allen (630) 241-6800	AMEC	\$60,281,636	10/28/2016
(I-90) I-290/IL 53 to Arlington Hts. Road Elk Grove Village, IL	Illinois State Toll Highway Authority Jeffrey Allen (630) 241-6800	Crawford, Murphy & Tilly, Inc. Consulting Engineers	\$36,583,586	10/28/2016
Ortho X-Ray DCAM 4 Chicago, IL	The University of Chicago Medical Center Bill Dawes (773) 834-9172	PFB Architects	\$304,477	10/7/2016



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
190 Meacham Road (MP 67.4) Schaumburg, IL	Illinois State Toll Highway Authority John Wagner	Illinois State Toll Highway Authority	\$22,776,451	9/26/2016
Dog Park at Village Green Key Biscayne, FL	Village of Key Biscayne Tony Brown	Stantec Inc.	\$809,000	9/23/2016
Rebranding at O'Hare International Airport Chicago, IL	American Airlines, Inc. Ronald LaDuke (773) 686-3259	Burns & McDonnell	\$5,117,218	9/22/2016
Western Brambleton District Park Improvements Ashburn, VA	Nova Parks Todd Hafner (703) 352-5900	Pennoni	\$4,557,332	9/21/2016
BL608 ISAT Various Rooms Renovation Bloomington, IL	Indiana University Steve Freeman (812) 855-1762		\$221,218	9/20/2016
UIC Chicago New Stem Cell Lab Renovation Chicago, IL	University of Illinois - Chicago Pam Hill (312) 413-1905	BSA Life Structures	\$248,957	9/14/2016
Our Lady of Peace 2016 School Renovations Chicago, IL	Bronzeville Lighthouse Charter School Lamarr Miller (708) 238-6190	MoDe Architects	\$1,100,135	9/2/2016
Walter Payton College Prep Annex/Renovation Chicago, IL	Public Building Commission Mark Lindstrom (312) 744-3090	KOO & Associates, Ltd.	\$14,215,155	8/26/2016
Provident Hospital Emergency Department Waiting Room HVAC Upgrade and Ambulance Bay Ceiling Replacement Chicago, IL	Cook County Warrick Graham (312) 603-0311	Globetrotters Engineering Corp.	\$483,821	8/26/2016



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Contract A 2016 Building Improvements & Roof Replacement Winnetka, IL	Winnetka School District 36 Greg Kurr (847) 446-9400	Green Associates Architects, Inc.	\$1,488,232	8/26/2016
Union Station Transit Center Chicago, IL	Chicago Department of Transportation Dan Burke (312) 744-5807	Muller & Muller	\$23,254,102	7/30/2016
DCAM Sub-Basement New PET MRI & CT Replacement Chicago, IL	The University of Chicago Medical Center Bill Dawes (773) 834-9172	PFB Architects	\$1,447,945	7/29/2016
Repair Fire Station Bldg. 214 Tyndall AFB, FL	Tyndall Air Force Base William Baker (850) 283-8861		\$96,849	7/24/2016
EA802 Whitewater Hall Suite 101 & 105 Renovation Richmond, IN	Indiana University Steve Freeman (812) 855-1762		\$81,789	7/11/2016
Madison Street Bascule Bridge House H-Pile Stabilization Chicago, IL	Chicago Department of Transportation Emilie Becq-Giraudon (312) 744-3600		\$1,432,384	6/30/2016
North Avenue Pedestrian Bridge Retrofit Chicago, IL	Chicago Department of Transportation Emilie Becq-Giraudon (312) 744-3600	Wiss, Janney, Elstner Associates, Inc.	\$781,859	6/30/2016
Long Bridge Park - Playground Areas Arlington, VA	Arlington County Government Stephen Lucas (703) 228-4358	LSG Landscape Architecture	\$998,367	6/15/2016



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Comer Children's Hospital RF Equipment Replacement Chicago, IL	The University of Chicago Medical Center Bill Dawes (773) 834-9172	PFB Architects	\$162,494	6/6/2016
Item 189 – Mathon Drive Bridge Over Union Pacific Railroad Waukegan, IL	Illinois Department of Transportation	Baxter & Woodman	\$6,519,574	6/1/2016
Park Lane Phase V Project Oakland Park, FL	City of Oakland Park Ronald Desbrunes (954) 630-4482	Craven, Thompson, and Associates	\$1,108,413	5/24/2016
Stickney Water Rec Plant Rehab A/B & C/D Service Tunnels Cicero, IL	Metropolitan Water Reclamation District of Greater Chicago Ron March (773) 256-3896	Metropolitan Water Reclamation District of Greater Chicago	\$13,615,000	3/9/2016
Stop Logs and Diversion Pumps at Wilmette Pump Station and Evanston Pump Station Rehabilitation North Service Area Wilmette, IL	Metropolitan Water Reclamation District of Greater Chicago Denny Getahum (773) 538-9609	Donohue & Associates	\$17,305,148	3/7/2016
Hubbard Woods Pavilion Winnetka, IL	Winnetka Park District Costa Kutulas (847) 501-2052	Green Associates Architects, Inc.	\$707,560	2/19/2016
O'Hare - Terminal 5 Dock Leveler Replacement Chicago, IL	SMG-Skyline Management Group Michael Hollandsworth (773) 894-2070		\$42,427	2/5/2016
River Grove Public Works Facility Renovation River Grove, IL	Village of River Grove Frank Calistro (708) 453-8000	Base Ten Architects, Inc.	\$2,762,697	1/15/2016
I-90 Retaining Wall (MP 76.26 to MP 77.85) Des Plaines & Rosemont, IL	Illinois State Toll Highway Authority Jeffrey Allen (630) 241-6800	AMEC/Jacobs/RM Chin JV	\$11,736,583	1/13/2016



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Hammond Elementary School - ICR Chicago, IL	Chicago Public Schools	Coyne & Associates	\$898,585	1/13/2016
Lakeview High School - ICR Chicago, IL	Chicago Public Schools	Cordogan Clark & Associates	\$2,260,176	1/4/2016
New GSE Support Building Chicago, IL	American Airlines, Inc. Ronald LaDuke (773) 686-3259	Ilekis Associates	\$2,600,251	12/24/2015
Jackson Austin Bus Turnaround New Bus Driver Restroom Facility Chicago, IL	Chicago Transit Authority Ryan Bonk (312) 681-3854	Chicago Transit Authority	\$971,379	12/10/2015
WB I-90 Roadway & Bridge Widening - Route 31 (MP 54.4) to Fox River (MP 55.4) Elgin, IL	Illinois State Toll Highway Authority	V3 Companies	\$30,856,653	12/5/2015
Heritage Corridor Tunnels Joliet, IL	John Burns Construction Co. Craig Patterson (708) 326-3500		\$355,000	12/1/2015
Countywide HH Emergency Power System Upgrade (Provident Hospital) Chicago, IL	Cook County Sheila Atkins (312) 603-0336		\$41,774	11/30/2015
Whealan Pool, Caldwell, Linne, Labagh Woods Interior/Exterior Improvements Chicago, IL	Forest Preserve of Cook County Rebecca Theodoratos (708) 771-1570	Globetrotters Engineering Corp.	\$258,785	11/13/2015
IL-13 Big Muddy River Bridge Murphysboro, IL	Illinois Department of Transportation Keith Roberts (618) 549-2171	Illinois Department of Transportation	\$11,866,777	11/12/2015
Maintenance Building M-1 Alsip/Installation Underground Fuel Storage Tanks Alsip, IL	Illinois State Toll Highway Authority Rick Hanba (630) 241-6231	Epstein	\$23,850,281	11/11/2015



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
South Water Purification Plant – Glass Block Wall Replacement- West Face Chicago, IL	City of Chicago - Department of Water Kamel Khater	Globetrotters Engineering Corp.	\$2,010,275	10/31/2015
Elgin O'Hare Western Access Tollway Roselle, IL	Illinois State Toll Highway Authority Jacek Tyszkiewicz (630) 241-6800	Clark Dietz, Inc.	\$44,867,869	10/24/2015
I-90 Garden Prairie Rd (MP 30.3) to Anthony Rd. (MP 33.3) Bridge No. 651 & 655 Riley Township and Marengo, IL	Illinois State Toll Highway Authority Jeffrey Allen (630) 241-6800	Ciorba Group, Inc.	\$7,380,189	10/23/2015
O'Hare Upper Level Expansion Joint Repair Chicago, IL	Chicago Department of Aviation	Jacobs Edwards & Kelcey, Inc.	\$6,760,105	10/15/2015
Systemwide Bridge Repairs Chicago, IL	Illinois State Toll Highway Authority Jordan Kim (630) 241-6800	Cotter Consulting, Inc.	\$834,176	10/8/2015
F10-F16 Gate Optimization Chicago, IL	United Airlines Brian DeLaura (773) 601-4847	Solomon Cordwell Buenz & Associates	\$308,000	10/2/2015
CAB - Chicago Horizon Kiosk Install - Museum Campus Chicago, IL	Chicago Park District William Gernady (312) 907-0048	Ultramoderne	\$393,702	10/2/2015
Marshallton Branch Paving Wilmington, DE	USPS Eastern FCCMT Ashok Verma (856) 787-1984	A+E Group	\$310,677	9/24/2015
O'Hare Station Southwest End Restoration Chicago, IL	Chicago Transit Authority Kevin Loughnane (312) 681-3808		\$1,796,534	9/14/2015



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
West Ridge Nature Preserve Chicago, IL	Chicago Department of Transportation Charlene Walsh (312) 742-3244	Hitchcock Design Group	\$3,660,533	9/11/2015
Downtown Homewood Open Space Project Homewood, IL	Village of Homewood Max Massi (708) 206-2909	Lakota Group	\$1,200,000	9/9/2015
Amundsen High School - CAR Chicago, IL	Chicago Public Schools	MoDe Architects	\$3,254,000	9/4/2015
Grand Avenue Ramp Construction on I-94 in Gurnee and Systemwide Various Repairs Gurnee, IL	Illinois State Toll Highway Authority Lanyea Griffin (630) 201-6421	Primera Engineers, Ltd.	\$25,367,855	9/3/2015
Merrillville, IN BR - Asphalt Paving Merrillville, IN	USPS Eastern Facilities Service Office Jonathan Maschak (724) 776-6343	AMEC	\$294,500	8/27/2015
Southport - Replace Paving Indianapolis, IN	USPS Eastern Facilities Service Office Jonathan Maschak (724) 776-6343	AMEC	\$168,000	8/26/2015
Rollins Rd Grade Separation Round Lake Beach, IL	Lake County Highway Department Glen Petko (847) 377-7400	Alfred Benesch & Co.	\$30,775,374	8/25/2015
Back of the Yards High School - ICR Chicago, IL	Chicago Public Schools	Tom Brock Architect	\$218,000	8/19/2015
Illini Union Starbucks Urbana, IL	University of Illinois at Urbana-Champaign Josh Rubin (217) 300-2469	Bailey Edward Design	\$229,691	8/19/2015



REPRESENTATIVE PROJECTS
PAST 5 YEARS

Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Armory Renovate Classroom 432 Champaign, IL	University of Illinois at Urbana- Champaign Josh Rubin (217) 300-2469	Bailey Edward Design	\$188,446	8/19/2015
Audubon School Renovations and Addition New Orleans, LA	Orleans Parish School Board Herman Taitt (504) 304-3250	Blitch Knevel Architects	\$12,415,000	8/18/2015
Wildwood World Magnet School Annex/Renovation Chicago, IL	Public Building Commission Berta Loro (312) 554-9552	Ilekis Associates	\$10,266,929	8/4/2015
Westside Primary Settling Tanks 1-9 & Aerated Grit Facility Cicero, IL	Metropolitan Water Reclamation District of Greater Chicago, IHC Construction Companies LLC Pete Nielsen (847) 841-7715	Burns Group	\$6,013,143	8/1/2015
Thornton Quarry Thornton, IL	Metropolitan Water Reclamation District of Greater Chicago Adel Awad (773) 256-3649	Black & Veatch Corporation	\$67,001,563	7/29/2015
Renovate Bldg 817 For NCC Ops Tyndall AFB, FL	Tyndall Air Force Base William Baker (850) 283-8861		\$1,490,103	7/28/2015
I-290/Elgin O'Hare - Flyover Bridge Itasca, IL	Illinois State Toll Highway Authority Laura Niemeyer (630) 241-6800	V3 Companies	\$36,693,784	7/25/2015
I-90 - Grading, Drainage & Wall Construction EB & WB from Mt. Prospect Rd., to Lee St., MP 74.6-76.4 Des Plaines, IL	Illinois State Toll Highway Authority Jeffrey Allen (630) 241-6800	Alfred Benesch & Co.	\$29,077,608	7/20/2015



REPRESENTATIVE PROJECTS
PAST 5 YEARS

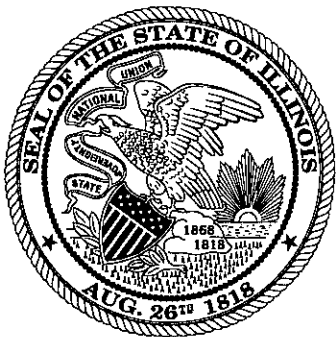
Project / Address	Owner Name & Contact	Architect/Engineer & Contact	Value	Completion Date
Carver Park Dance Center and Teen Lounge Rehab Chicago, IL	Chicago Park District William Gernady (312) 907-0048		\$359,423	7/16/2015
Aspira Business & Finance High School Chicago, IL	Aspira of Illinois Hector Miranda (773) 252-0970	MoDe Architects	\$21,646,914	7/15/2015
CTA 77th Street Bus Garage & Site Upgrades Chicago, IL	Chicago Transit Authority Loren Sailsbury (312) 681-3931	CD Smith	\$2,056,447	6/26/2015
Design-Assist Construction Services for Metro Memorial Park Washington, DC	D.C. Department of General Services Brian Hanlon (202) 727-2800	Hunt Laudi Studio, LLC	\$1,718,900	6/18/2015
Clark-LaSalle/Division Red Line Mezzanine & Platform Renovation Chicago, IL	Chicago Department of Transportation Julian Silva (773) 842-3282	Jacobs Edwards & Kelcey, Inc.	\$41,945,836	6/6/2015
Wild Encounters Restroom Renovation Brookfield, IL	Chicago Zoological Society Ronald Reed (708) 688-8382	Wallin/Gomez Architects, Ltd.	\$453,197	5/21/2015
Walter Payton High School - MEP Renovation Chicago, IL	Chicago Public Schools Patricia Taylor (773) 553-2920	KOO & Associates, Ltd.	\$286,000	5/1/2015



To all to whom these Presents Shall Come, Greeting:

I, Jesse White, Secretary of State of the State of Illinois, do hereby certify that I am the keeper of the records of the Department of Business Services. I certify that

F.H. PASCHEN, S.N. NIELSEN & ASSOCIATES LLC, HAVING ORGANIZED IN THE STATE OF ILLINOIS ON APRIL 21, 2003, APPEARS TO HAVE COMPLIED WITH ALL PROVISIONS OF THE LIMITED LIABILITY COMPANY ACT OF THIS STATE, AND AS OF THIS DATE IS IN GOOD STANDING AS A DOMESTIC LIMITED LIABILITY COMPANY IN THE STATE OF ILLINOIS.



In Testimony Whereof, I hereto set
my hand and cause to be affixed the Great Seal of
the State of Illinois, this 2ND
day of JUNE A.D. 2020 .

Jesse White

SECRETARY OF STATE



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Logon

Skip Hoffman
 shoffman@fhpaschen.com
 +1 7734441515
 Last logged on 6/5/2020
 Balance: (\$42,384.92)

Alerts

- There are 139 unread messages
- There are 7 unread letters
- File Now: Unemployment Insurance return for 6/30/2020
- File Now: ST-1 Return for 5/31/2020

I Want To

- Add Access to an Existing Tax Account
- Manage Payments and Returns
- Update Contacts
- Update Owners/Officers
- Register for New Tax Accounts
- Reopen an Existing Account
- Respond to a Levy
- Power of Attorney Activities for UI Account
- Set up a Payment Installment Plan with IDOR

ACCOUNTS **REQUESTS** **CORRESPONDENCE** **NAMES & ADDRESSES** **LOGONS**

Accounts						View All...	Filter
Account Type	Account ID	Balance	Name	Address	Cease Date		
Business	36-4518443	\$0.00	FH PASCHEN SN NIELSEN & ASS...	5515 N EAST RIVER RD CHICAGO IL 60656-1113			
ST-1	3405-0647	\$0.00	FH PASCHEN SN NIELSEN & ASS...	5515 N EAST RIVER RD CHICAGO IL 60656-1113			
Unemployment Insurance	4355425	\$0.00	PASCHEN S N NIELSEN-ASSOC LLC	5515 N EAST RIVER RD CHICAGO IL 60656-1113			
Withholding	36-4518443-000	(\$42,384.92)	FH PASCHEN SN NIELSEN & ASS...	5515 N EAST RIVER RD CHICAGO IL 60656-1113			

4 Rows

**U.S. DEPARTMENT OF LABOR - OFFICE OF APPRENTICESHIP
APPRENTICESHIP CERTIFICATION**

F.H. PASCHEN
5515 N. EAST RIVER ROAD
CHICAGO , IL 60656

The following individuals are apprentices registered with the U.S. Department of Labor, Office of Apprenticeship, under the sponsorship of program **IL012020003 - OPERATING ENGINEERS LOCAL #150**:

OPERATING ENGINEERS LOCAL #150
19800 W. SOUTH ARSENAL ROAD
WILMINGTON , IL 60481

Apprentice ID	SSN	Apprentice Name	Occupation	Date Apprenticeship Began	Date Cancelled	Date Completed
IL2019004045	***- **-4261	CAZAREZ, HUGO	OPERATING ENGINEER (0365HY V1) Hybrid	8/19/2019		



Certified by the U.S. Department of Labor

Date Issued: 3/19/2020

******VOID: 90 DAYS FROM ISSUE DATE******

**U.S. DEPARTMENT OF LABOR - OFFICE OF APPRENTICESHIP
APPRENTICESHIP CERTIFICATION**

F.H. Paschen
5515 N. East River Road
Chicago , IL 60656

The following individuals are apprentices registered with the U.S. Department of Labor, Office of Apprenticeship, under the sponsorship of program **IL017990001 - Chicagoland Laborers**:

Chicagoland Laborers
1200 OLD GARY AVE.
CAROL STREAM , IL 60188

Apprentice ID	SSN	Apprentice Name	Occupation	Date Apprenticeship Began	Date Cancelled	Date Completed
IL2018001156	***- **-4501	Wilson, Rebecca	CONSTRUCTION CRAFT LABORER (0661 V1) Time-Based	2/1/2018		



Certified by the U.S. Department of Labor

Date Issued: 4/13/2020

******VOID 90 DAYS FROM ISSUE DATE******



DRUG /ALCOHOL POLICY & PROCEDURES

1. POLICY STATEMENT

F.H. Paschen recognizes the problems created by drug and alcohol abuse and the need to develop prevention and treatment programs. F.H. Paschen has a commitment to protect people and property, and to provide a safe working environment. The purpose of the F.H. Paschen Drug/Alcohol program is to establish and maintain a drug free, alcohol free, safe, healthy work environment for all of its employees. Therefore, all employees are covered by this policy and must abide by the provisions set forth in this policy as a condition of employment with F.H. Paschen. Any employee who is convicted of any violation of any federal or state drug abuse statute occurring in the workplace must notify the Company of the conviction no more than five (5) days after the conviction. Any employee convicted of a violation of a drug abuse statute in the workplace may be terminated or required to participate in a drug abuse assistance or rehabilitation program. This prevention plan is in compliance with Indiana Code 4-13-18 and with the Illinois General Assembly 820 ILCS 265/10 & 15 Substance Abuse Prevention on Public Works Projects Act.

2. DEFINITIONS

A. Company Premises - The term "Company Premises" as used in this policy includes all property, facilities, land, buildings, structures, equipment, automobiles, trucks, and other vehicles owned, leased or used by the company. Construction job sites are included.

B. Prohibited Items & Substances - Prohibited substances include illegal drugs including controlled substances, look alike drugs, and designer drugs, alcoholic beverages, and drug paraphernalia in the possession of or being used by an employee on company premises.

C. Employee - Individuals, who perform work for F.H. Paschen including, but not limited to, management, supervision, engineering, tradesmen, laborers, and clerical personnel.

D. Accident - Any event resulting in injury to any person or any property to which an employee contributed as a direct or indirect cause.

E. Incident - An event which has all the attributes of an accident, except that no harm was caused to any person or any property.

F. Reasonable Cause - Reasonable cause will be found where a change in the employee's behavior or job performance is observed. Such change may be absenteeism, or erratic behavior including, but not limited to noticeable imbalance, incoherence and disorientation.



3. CONFIDENTIALITY

A. F.H. Paschen has only the interests of its employees in mind and therefore encourages any employee with a substance abuse problem to come forward and voluntarily accept our assistance in addressing that problem. An employee assistance program will provide guidance and direction for you during your recovery period. If you volunteer for help, the company will make every reasonable effort to return you to work upon your recovery. The company will also take action to assure that your substance abuse problem is handled in a confidential manner. However, voluntary requests for assistance will not in any manner preclude F.H. Paschen from taking any disciplinary actions for the violation of this policy.

B. All information obtained or collected from the use of this policy will be maintained in separate, confidential medical files.

C. All actions taken under this policy and program will be confidential and disclosed only to those with a "need to know."

D. When a test is required, the specimen will be identified by a code number, not by name, to ensure confidentiality of the donor. Each specimen container will be properly labeled and made tamper proof. The donor must witness this procedure.

E. Unless an initial positive result is confirmed as positive, it shall be deemed negative and reported by the laboratory as such.

F. The handling and transportation of each specimen will be properly documented through the strict chain of custody procedures.

4. RULES

All employees must report to work in a physical and/or mental condition that will enable them to perform their jobs in a safe and efficient manner.

Employees shall not:

1. Use, manufacture, possess, dispense or receive prohibited items and/or substances on or at the company premises including construction sites.
2. Report to the company premises with any measurable amount of prohibited substances in their system.
3. Prescription Drugs - Employees using any prescribed medication must immediately inform their supervisor of such prescription drug use if it will affect their ability to perform their designated job duties. For the safety of all employees, the company will consult with you and your physician to determine if a re-assignment of duties is necessary. The company will attempt



to accommodate your needs by making an appropriate re-assignment. However, if a re-assignment is not possible, you will be placed on temporary unpaid medical leave until released as fit for duty by the prescribing physician.

5. DISCIPLINE

When the company has reasonable cause to believe an employee is under the influence of a prohibited substance, the employee may be suspended until test results are available. If the test results prove negative, the employee shall be reinstated. In all other cases:

1. Applicants testing positive for prohibited items or substance use will not be hired.
2. Employees who have not voluntarily come forward and who test positive for prohibited items or substance use will be subject to disciplinary action, up to and including termination.
3. Employees who refuse to cooperate with testing procedures will be subject to disciplinary action, up to and including termination.
4. Employees found in possession of prohibited items or substances while on company premises, including job sites, will be subject to disciplinary action, up to and including termination.
5. Employees found using, selling manufacturing, receiving, or distributing prohibited items or substances while on company premises will be subject to disciplinary action, up to and including termination.
6. Employees who test positive for prohibited items or substance while on company premises or while operating any company vehicle will be subject to disciplinary action, up to and including termination.
7. Employees who violate the Prescription Drugs section of this policy will will be subject to disciplinary action, up to and including termination.

6. DRUG / ALCOHOL TESTING

The company may conduct drug and alcohol testing under the following conditions:

A. A pre-employment drug screen will be administered to applicants who have been made an offer of employment. Any refusal to complete the pre-employment drug screen shall be considered a voluntary withdrawal of the applicant's application for employment.

B. A test will be administered in the event a supervisor has a reasonable cause to believe that the employee has reported to work under the influence, or is or has been under the influence while on company premises, of a prohibited item or substance or has violated this drug policy. During the process of establishing reasonable cause for testing, the employee will be provided with an opportunity to explain his/her conduct to the supervisor.

C. Testing will be required if an employee is involved in a workplace accident or incident or if there is a workplace injury and there is a **possibility** that drug or alcohol use may have contributed to the accident/incident.



D. Testing will be required as a part of a follow-up to counseling or rehabilitation for substance abuse, for a 1-year period.

E. Testing will be required in accordance with the project owner's specific rules and regulations.

7. REHABILITATION AND EMPLOYEE ASSISTANCE PROGRAM

Employees are encouraged to seek help for a drug and/or alcohol problem. If an employee voluntarily notifies supervision that he or she may have a substance abuse problem, the company will assist in locating a suitable medical benefits facility available under the company insurance program for employees who are covered by the company insurance program.

If treatment necessitates time away from work, the company shall provide for the employee a one-time unpaid leave of absence for purposes of participation in an agreed upon treatment program. An employee who successfully completes a rehabilitation program shall be reinstated to his/her former employment status, if work for which he/she is qualified exists. For the purposes of this policy, the term former employment status will mean a position which is comparable to the employee's previous position before the unpaid leave of absence for participation in the treatment program. F.H. Paschen will solely determine the issue of former employment status.

Employees returning to work after successfully completing the rehabilitation program will be subject to drug and alcohol tests without reasonable cause for a period of one (1) year. A positive test will be subject to disciplinary action, up to and including termination.



**F.H. Paschen, S.N. Nielsen & Associates LLC
INJURY ILLNESS PREVENTION PROGRAM**

**F.H. Paschen, S.N. Nielsen & Associates LLC
5515 N. East River Rd. Chicago, IL 60656**

List of Appendices

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Appendix B.	Accident/Exposure Reporting
Appendix C.	Corporate Respiratory Program
Appendix D.	Confined Space
Appendix E.	Asbestos and What To Do
Appendix F.	Hearing Loss Prevention Plan
Appendix G.	Bloodborne Pathogen Plan
Appendix H.	Job Hazard Analysis Template Form
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Appendix J.	Silica Exposure Awareness Plan

F.H. Paschen, S.N. Nielsen & Associates LLC
INJURY ILLNESS PREVENTION PROGRAM
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- II. Objectives of Injury Illness Prevention Program**
- III. Who Implements the Injury Illness Prevention Program**
- IV. Assignment of Responsibilities**
- V. Safety Communications**
- VI. Hazard Assessment/Hazard Correction**
- VII. Training/Discipline**
- VIII. Record-keeping**

I. Management Policy Statement

It is the policy of F.H. Paschen, S.N. Nielsen & Associates LLC (F.H. Paschen) that every F.H. Paschen employee is entitled to a safe and healthful place in which to work. To this end, every reasonable effort will be made in the interests of accident prevention, fire prevention and health preservation.

The management concept of this company is not production and safety; it is production **with** safety. When production with safety is achieved, production efficiency is attained simultaneously.

We at F.H. Paschen, have a responsibility to make the safety of our workers and our clients a daily concern. We are counting on each employee to do his or her part in making our program an effective one. We consider the safety of our personnel to be of prime importance, and we expect your full cooperation in making our program effective.

To accomplish these goals, the following is the Injury Illness Prevention Program which F.H. Paschen expects all employees to follow on all F.H. Paschen projects. The Injury Illness Prevention Program applies only to F.H. Paschen employees for work being performed on behalf of F.H. Paschen.

II. Objectives of Injury Illness Prevention Program

The objectives of the Injury Illness Prevention Program (IIPP) are to insure a safe and healthy workplace and compliance with United States Department of Labor Occupational Safety and Health Administration Regulations and all other applicable Local, State and Federal Safety Regulations.

In order to meet these objectives F.H. Paschen, shall:

- Effectively reduce the financial and human losses resulting from accidents and injuries arising out of the course of employment.
- Establish safety policies which will contribute to and be part of the Injury Illness Prevention Program.
- Establish on-going Injury Illness Prevention Programs company-wide.

III. Who Implements the Injury Illness Prevention Program

The following positions are responsible for implementing F.H. Paschen's Injury and Illness Prevention Program.

Vice Presidents
Risk Management
Safety Technicians

Project Managers
Project Superintendents
Project Engineers
Forepeople
Employees

IV. Assignment of Responsibilities

A. Support

All employees are required to comply with the IIPP. The IIPP reflects F.H. Paschen's concern for the safety of and its commitment to the policies outlined in the IIPP. To this end, F.H. Paschen, will make available the resources required for the proper training and certification of its employees.

B. Responsibilities

Vice Presidents shall be responsible for:

- Responsible for overseeing their division's compliance with the administration of the safety program.

Risk Management shall be responsible for:

- Maintaining records required by 29 CFR 1926 OSHA;
- Communicating information to field supervision or staff to assist with the implementation of the IIPP; and
- Overseeing that the required employees have attended OSHA 30 Hour Training

Safety Technicians shall be responsible for:

- Advising supervisors on safety clothing, equipment and policies;
- Assisting with safety and health inspections;
- Assisting with initial and follow-up accident investigations;
- Performing all duties necessary to insure compliance with applicable safety and health regulations;
- Provide "one-on-one" support to field supervisors to assist them in carrying out the IIPP on their assigned projects.

Superintendents and Forepeople are responsible for the effective implementation of the Company's IIPP as follows:

- Oversee compliance with OSHA regulations;
- Conduct weekly toolbox meetings;
- Observing and evaluating work conditions and procedures to detect and correct unsafe conditions and practices and use of personal protective equipment;
- Enforce all safety rules, procedures, and policies and discipline employees who do not comply with safety rules, procedures and policies;
- Promptly report and investigate injuries and accidents; contact risk management for direction;
- Require employees to report unsafe conditions and submit practical suggestions for correction;
- Ensure that tools, equipment and protective devices are properly maintained and utilized
- Perform all duties, which will enhance the success of the IIPP;
- Conduct and document safety orientation, safety instruction and training, Job hazard analysis, accident investigation, and safety performance records for all project employees;

Project managers and project engineers are responsible for the effective implementation of the Company's IIPP as follows;

- Oversee compliance with OSHA regulations;
- Observing and evaluating work conditions and procedures to detect and correct unsafe conditions and practices and use of personal protective equipment;
- Enforce all safety rules, procedures, and policies and discipline employees who do not comply with safety rules, procedures and policies;
- Promptly report and investigate injuries and accidents; contact risk management for direction;
- Require employees to report unsafe conditions and submit practical suggestions for correction
- Perform all duties, which will enhance the success of the IIPP;

Superintendents, project managers, forepeople and project engineers in situations where they are not trained in specific safety hazards shall not be responsible for OSHA compliance. Safety technicians or outside safety personnel will be utilized in those instances.

All Employees are responsible for:

- Following all safety rules, procedures and policies;
- Reporting any unsafe conditions immediately;
- Reporting all accidents and injuries to their supervisor **as soon as possible**;
- Participating in Job Hazard Analysis, Weekly Toolbox Meetings and other required training sessions

V. Safety Communications

F.H. Paschen, recognizes open, two-way communication between management and staff on health and safety issues is essential to providing an injury-free, productive workplace. The

following system of communications is designed to facilitate a continuous flow of safety and health information between management and staff in a form that is readily understandable and consists of:

- New employee orientation, including a discussion of safety and health policies and procedures
- Review of the Injury Illness Prevention Program
- Regularly scheduled safety meetings, in addition to toolbox meetings
- Effective communication of safety and health concerns between workers and supervisors, including translation when necessary
- Posted or distributed safety information
- A system for workers to anonymously inform management about workplace hazards;
- Toolbox meetings

VI. Hazard Assessment/Hazard Correction

F.H. Paschen, may conduct self-audits and inspections to identify and correct unsafe conditions or practices which may result in injuries or property loss. Our system for identifying and evaluating hazards to identify unsafe conditions and behaviors in the workplace include the following:

- Before the project work begins; identify all hazards, evaluate the risk, and implement controls to mitigate the risk.
- Perform Safety audits or inspections by the Superintendent and/or safety technician with hazard correction.
- When an imminent hazard exists, all workers shall be removed from the area except those necessary to correct the unsafe conditions. Workers necessary to correct the hazard shall be provided with the necessary protection and training to correct the hazard.
- Evaluate hazards:
 - When installing special equipment;
 - When new operations or work procedures are established;
 - When work is relocated or revised;
 - When a special or unusual problem arises;
 - Following an accident, injury, or near miss.

VII. Training/Discipline

Training

All workers shall have training and instruction on general and job specific safety and health practices. Training and instruction shall be provided as follows:

- All new hire employees shall receive an initial orientation training that will include our Employee Code of Safe Work Practices;

- Whenever new substances, processes, procedures or equipment are introduced into the workplace and represents new hazards;
- Whenever an employee is given a new job assignment(s) for which training has not previously been received;
- Whenever F.H. Paschen is made aware of a new or previously unrecognized hazards;
- To supervisors to familiarize them with the new safety and health hazards to which workers under their immediate direction and control may be exposed;
- To all workers with respect to hazards specific to each worker's job assignments;
- Methods to report unsafe work conditions, work practices and injuries;
- Use of any required personal protective clothing or equipment;
- Information about chemical hazards to which employees could be exposed to and other hazard communication program information;
- Provisions for medical services and first aid including emergency procedures;

Discipline

The following progressive steps of discipline may be taken when employees are in violation of F.H. Paschen's IIPP.

- Verbal Warning
- Written Warning
- Time Off without Pay
- Dismissal

A violation of F.H. Paschen's IIPP which results in serious injury or property damage shall be grounds for immediate dismissal

The "Safety Violation F.H. Paschen Employee Form" can be found on the page immediately there-after, which is intended to be used to discipline F.H. Paschen Employees only.

SAFETY VIOLATION BY AN F.H. PASCHEN, S.N. NIELSEN & ASSOCIATES LLC EMPLOYEE

Date Issued _____

Name of Supervisor _____

F.H. Paschen's Employee (Print Name)

F.H. Paschen Employee's Signature

F.H. PASCHEN Job Number:

Job Name: _____

Job Address: _____

VIOLATION

Hard Hat	Saw Guard
Eye Protection	Ladders
Fall Protection	Safe Tool Usage
Harness	Other

Description: _____

The following progressive steps of discipline will be taken when employees are in violation of F.H. Paschen's IIPP.

1. Verbal Warning
2. Written Warning
3. Time off without Pay
4. Dismissal

A violation of F.H. Paschen's Safety Program, which results in serious injury or property damage, shall be grounds for immediate dismissal.

F.H. Paschen Superintendent's Signature

VIII. Record-keeping

F.H. Paschen is at times a high hazard employer. All OSHA records will be maintained for five (5) years. The following shall be documented:

- Records of hazard assessment inspections, including the person(s) conducting the inspection, the unsafe condition and work practices that have been identified and the actions taken to correct the identified unsafe conditions and work practices
- Documentation of safety and health training for each worker, including the worker's name or other identifier, training dates, type of training and training providers are to be maintained in the worker's training file. Records will be maintained for one year except for workers who have worked for less than one year, which are provided to the worker upon termination of employment.
- All F.H. Paschen employees will have a personal health record, which will be maintained for 30 years after termination. These records are protected under the Health Insurance Portability and Accountability Act (HIPAA). Examples of these records are Hearing examinations, Occupational Physicals, Medical surveillance for respirators, Respirator Fit results, and Pulmonary Function Tests.
- All employee exposure to toxic substances and hazardous exposures
- OSHA 300 Log- will be maintained by the Risk Management Department. Form 300A shall be posted at all jobsites from February 1st until April 30th.
- All Injuries, illness, or fatalities that are work-related, or meets one or more of the general recording criteria specified in 29 CFR Part 1904.4.



Appendix A

F.H. Paschen, S.N. Nielsen & Associates LLC
Employee Code of Safe Work Practices
Program

F.H. Paschen, S.N. Nielsen & Associates LLC
Employee Code of Safe Work Practices Program
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- A. Dress Code**
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- P. Work Zone Safety Highway and Road**
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- R. Emergency Response**
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- U. Hazcom**

The attached Employee Code of Safe Work Practices Program information is to be given to every employee prior to beginning work on any project. Upon completion of the safety and health orientation, the employee will be required to sign the acknowledgement form found on page 41 of this Program. Completed forms shall be brought to the F.H. PASCHEN field office to be placed in the safety files. No employee is to begin working on any F.H. PASCHEN project until this orientation is completed.

A. DRESS CODE

1. Employees will work fully clothed. This means shirt, long pants, and work shoes or boots.

Note: Exceptions may be made for office personnel at some locations.

2. Clothes must be in good condition. Loose or ragged clothing, which may become a hazard around moving equipment or catch fire easily, is not allowed.
3. Shirts must have sleeves extending over the shoulders by approximately four (4) inches minimum (ie: t-shirt). Tank tops, sleeveless shirts, and cutoffs, which expose the abdomen and lower back, are prohibited.
4. Shirrtails shall be tucked inside the trousers with the exception of welders while welding.
5. Trousers with large bell-bottoms are not allowed.
6. Work shoes and boots are to be constructed of leather or other strong durable material and must be in good condition. Steel-toed shoes and boots are highly recommended. Canvas shoes, sandals, or open-toed shoes are not allowed. Waterproof rubber boots may be worn when conditions require them.
7. Employees required to use respirators must be clean-shaven in the respirator seal area of the face. Note: Some projects or clients may require all employees to be clean-shaven in the respirator seal area every day.
8. Hair longer than shoulder length shall be tucked in the hard hat.

B. PERSONAL PROTECTIVE EQUIPMENT

1. HEAD PROTECTION

- a. ANSI approved industrial hard hats must be worn in work areas. Metal hard hats are not approved for use.

Note: Some employees such as office workers and service workers may not be required to wear hard hats in some areas or while performing certain tasks.

- b. Hard hats should be worn with the visor (bill) facing forward.

2. EYE AND FACE PROTECTION

- a. ANSI approved industrial grade safety glasses must be worn in specified work areas. **Note: Offices and office workers may be an exception.**
- b. For some tasks, safety glasses do not provide adequate protection. Job sites must evaluate potential hazards associated with specific tasks and establish minimum acceptable protection for those tasks. Examples are: insulation work, sandblasting, catalyst handling, some woodworking tools, powder actuated

tools, impact wrenches, chemical handling, grinding, chipping, concrete breaking, high pressure air or water blasting or cleaning, opening process lines or systems, battery charging and jump starting, welding, burning, and cutting. Examples of additional protection are: mono goggles, chemical splash goggles, burning and welding goggles, face shields, welding hoods with appropriate filters, and sandblasting hoods.

3. RESPIRATORY PROTECTION

- a. Employees exposed to airborne particles, toxic fumes, gases, vapors, or potential oxygen deficient atmospheres shall wear a respirator applicable for the particular hazard when required above allowable limits. Employees shall adhere to their site-specific respiratory safety program.

4. HEARING PROTECTION

- a. Approved hearing protection, such as ear plugs, shall be worn when operating tools that create high noise levels or when working in areas designated as high noise level areas.
- b. As a general rule, if the surrounding noise level in your work area makes conversation difficult between you and another employee without raising your voices and the two of you are within three feet of each other you need to be wearing hearing protection.

5. HAND PROTECTION

- a. To prevent hand injuries, employees are encouraged to furnish and wear gloves.

6. FOOT PROTECTION

- a. Metatarsal guards shall be worn by all employees operating paving breakers and jumping jack compactors.

7. FALL PROTECTION

- a. F.H. Paschen, S.N. Nielsen & Associates LLC requires the use of fall protection equipment whenever an employee is working at heights of six feet or greater from any location to a solid surface below, and as required by federal, state, local, and client regulations. When a guardrail system is in place, you are never to remove any part of this system without authority from your supervisor.
- b. In areas where an approved guard rail system is not in place, or has been removed, ANSI approved full body harnesses with shock absorbing lanyards must be used whenever work is performed six (6) feet or higher above ground or stable platform level. One lanyard must be tied off at all times.

- c. Each employee will inspect their harness and lanyard(s) on a daily basis for defects.
- d. Defective harnesses and lanyards must be removed from service.
- e. Full body harnesses with shock absorbing lanyards shall be used as follows.
 - They shall be secured to an object, structure, or lifeline capable of supporting 5,000 lbs.
 - They shall be secured as far above the waist as possible and potential fall distance shall never be allowed to exceed six (6) feet, whenever possible.
 - Where no means exist to attach a full body harness or lanyard properly, lifelines or alternative methods, such as scaffolds or personnel lifts, shall be used.
 - Whenever a lanyard is used to position the employee, the positioning lanyard must be made of wire rope, cable, chain, or wire core rope. A second lanyard must be tied off for fall protection in the event the positioning lanyard fails.

C. GENERAL SAFETY REGULATIONS

1. Employees shall, as soon as possible, report all job-related injuries to their supervisor.
2. Employees shall obtain authorization before seeking doctor's care for a job-related injury.
3. Employees under a doctor's care for a non-job related injury or illness or who are taking prescribed medication shall report such care and medication to their supervisor.
4. Illegal drugs and alcohol are prohibited on job sites. Employees found with either substance in their systems will be immediately terminated.
5. Personal cameras and firearms are prohibited on job sites.
6. Fighting or horseplay is prohibited. Employees involved in either are subject to immediate termination.
7. Running on job sites is prohibited except in life threatening emergencies.
8. Glass containers are prohibited on job sites.
9. Drinking water coolers shall not be used for any other purpose (example: cooling or storing of soft drinks). Only employees authorized to service drinking water coolers can remove the lids from such containers.

10. Employees are to report all unsafe conditions and hazards to their supervisors.
11. Employees shall remain in their assigned work areas and travel established traffic aisles and roadways on all F.H. Paschen job sites. Employees shall not enter any area, building, or facility and attempt to do any work unless authorized to do so by their supervisor.

D. VEHICLE AND EQUIPMENT OPERATION

1. GENERAL

- a. Employees operating licensed corporate vehicles shall do so only if they have been issued a valid driver's license and such license is not restricted in any way which would prohibit the employee's legal operation of the vehicle. Employees operating corporate vehicles or equipment are solely responsible for the safe operation of the vehicle or equipment including personnel and loads transported.
- b. Operators of vehicles and equipment shall inspect the vehicles and equipment for defects at the beginning of each shift. Defective vehicles or equipment shall not be used. Notify a supervisor immediately if the vehicle/equipment is defective.
- c. Drivers and operators of vehicles and equipment shall strictly observe speed limits and all posted traffic control signs and devices.
- d. Equipment provided with only an operator's seat shall not be used to carry passengers unless an approved personnel platform or seat has been provided for passengers.
- e. Vehicles and equipment with a restricted view to the rear shall be equipped with an operable backup alarm, which is audible above surrounding work noise levels.
- f. Blades and buckets of earth moving equipment shall be lowered to the ground when unattended and at the end of each shift.
- g. Engines shall be shut off during refueling operations.
- h. Equipment and vehicles shall be shut down if the operator dismounts and all safety devices on vehicles and equipment shall be used at all times.
- i. All employees shall adhere to all applicable laws regarding cell phone use while driving. If you wish to use your cell phone while driving on company business, an external speaker and microphone must be included to allow for hands-free operation. Texting and emailing is NOT allowed while driving on company time.

2. TRANSPORTATION OF EMPLOYEES

- a. No more than three persons should be allowed to ride inside truck cabs and no employees shall be allowed to ride in pickup beds.
- b. Employees shall not mount or dismount from moving vehicles or equipment.

E. MATERIAL HANDLING AND STORAGE

1. TRANSPORTING LOADS

- a. Loads shall be adequately secured to make sure there is no displacement while being transported by vehicle or equipment.
- b. Loads, which project in front, back, or to the sides of vehicles or equipment must be flagged for visibility.

2. HOISTING LOADS OVERHEAD

- a. Tag lines shall be used to control all loads being hoisted overhead or transported by mobile hoisting equipment.
- b. Pipe, scaffold poles, conduit, and similar material shall be rigged with two wraps of the choker or sling at a minimum.
- c. Always keep a safe distance away from hoisting operations. Loads shall not be hoisted or swung over employees' heads.

3. MATERIAL STORAGE

- a. Material shall be stored in an orderly and stable fashion and kept out of work areas and traffic aisles.
- b. Pipe and similar materials unless racked, shall be stacked and blocked as to prevent spreading or tilting.
- c. Flammable and combustible materials shall be stored at least 50 feet from hot work or other source of ignition. Fire extinguishers shall be provided at least 25 feet from, but not more than 75 feet from said storage area.
- d. Flammable liquids shall be stored in containers marked as such and labeled as to contents. Signs indicating "no smoking within 50 feet" shall be posted.
- e. Flammable liquids other than in bulk storage shall be kept in approved safety cans.

F. LADDERS AND SCAFFOLDS

LADDERS

- a. Ladders shall be inspected prior to use. Defective ladders shall be removed from service.
 - b. Ladders used near energized electrical lines or equipment shall be made of nonconductive materials (wood, fiberglass, etc.).
 - c. Ladders shall be placed on a sound footing. They shall not be placed on unstable objects such as loose bricks.
 - d. Employees shall not carry tools, materials, or objects while climbing a ladder and avoid leaning side to side and away from the ladder.
 - e. Straight and extension ladders:
 - Must have nonskid safety feet.
 - Must be secured at the top when in use.
 - Must be placed at an angle not to exceed one foot of run for every four feet of rise.
- Step ladders
- Must be secured or held when in use
 - Employees shall not work from the top or next to the top step of step ladders.

SCAFFOLDS

- Scaffolding will be constructed, dismantled, altered, modified or changed under the direction of a competent person.
- Employees involved in the erection/dismantlement process will be trained in the following areas:
 1. The nature of scaffold hazards;
 2. The correct procedures for erecting, disassembling, moving, operating, repairing, inspecting, and maintaining the type of scaffold in question;
 3. The design criteria, maximum intended load-carrying capacity and intended use of the scaffold;
- The footing or anchorage for scaffolds shall be sound, rigid, and capable of carrying the maximum intended load without setting or displacement. Unstable objects such as barrels, boxes, loose brick or concrete blocks shall not be used to support scaffolds or planks.

- Guard rails and toe boards shall be installed on all open sides and ends of scaffold platforms 10 feet or more above the ground or floor. It is acceptable to use cross-bracing as a guard rail on scaffolding, if the intersecting point of the cross-bracing is 20-30" than it can be used as a mid rail, but a top rail is still needed, if the intersecting point is between 38-45" it is acceptable as a top rail, but a mid rail is still needed..
- All wood planking used for scaffolding platforms shall be Scaffold Grade All working levels of scaffolding must be fully planked.
- Where scaffold platforms are constructed of single lengths of plank that are not secured by overlapping, the planks shall be secured from movement by cleating, tying or otherwise secure to the scaffold. All other types of scaffold platforms shall be likewise secured. No gaps larger than 1" will be uncovered.
- Where planks on scaffold platforms are overlapped, the overlap shall not be less than 12 inches or secured to prevent movement planks shall overlap so that both planks are bearing on a scaffold support at the point of overlap.
- Scaffold planks shall not extend over the end supports less than 6 inches or more than 12 inches.
- The poles, legs or upright supports of scaffolds shall be plumb; and securely and rigidly braced to prevent swaying and displacement.
- Overhead protection shall be provided for employees on a scaffold exposed to overhead hazards. Suitable falling object protection, such as toe boards, screens, or canopies must be used on scaffolding where
- An access ladder or equivalent safe access shall be provided to and from the platform of all scaffolds.
- The maximum permissible span for planking used for scaffold platforms is 10 feet. In addition must be in compliance with all applicable standards governing the type of scaffolding being used (i.e. heavy duty, light duty, etc.).
- The use of lean-to scaffolds is prohibited.
- Scaffolding must never be overloaded with materials. All capacities will be strictly adhered to.
- Overaccumulation of debris on scaffolding will not be permitted. All debris must be removed in frequent intervals.
- Tiered scaffolds erected adjacent to any wall, building or structure shall be secured and braced to the building at intervals not to exceed 30 feet horizontally and 26 feet vertically.

- Wheels and casters on mobile scaffolds shall be provided with locking devices to hold the scaffold in position. Locking devices shall be set when the scaffold is in use.
- Employees will not self-propel themselves while working from Baker Scaffolds Or any wheel-mounted scaffold.
- Baker scaffolds or wheel mounted scaffolds must have outriggers in place when required.
- Scaffolding and all of its components must maintain a distance of 10 feet from powerlines.

G. FLOOR AND WALL OPENINGS

1. If handrails are removed and edges are exposed above 6 feet on decks or created in floors or walking surfaces the following precautions shall be taken.
2. Barricade tape can be used to warn of the hazard as long as the opening or hole is attended by personnel working on said opening or hole.
3. Unattended openings and holes shall be protected in one of the following ways:
4. Standard guardrail system consisting of top-rail, mid-rail, and toe boards capable of withstanding at least 200 lbs. force in any direction with a minimum of deflection.
5. Floor covers must support at least two times the maximum intended load. Covers shall completely cover the opening or hole and will be secured against displacement and labeled "hole cover do not remove."

H. TOOLS & EQUIPMENT

1. GENERAL
 - a. Employees shall inspect tools and equipment for defects before use. Defective tools and equipment shall be removed from service until repaired or replaced.
 - b. Guards and safety devices shall be left in place and be in operable condition on all tools.
2. HAND TOOLS
 - a. Wooden handles on tools shall be free of cracks or other defects. Tape or other coverings, which will hide defects, are not to be placed on handles.
 - b. Impact surfaces of tools such as but not limited to, hammer wrenches, drift pins, chisels, etc. shall be free of mushroomed surfaces.
 - c. Wrenches with sprung or worn jaws shall not be used.

3. ELECTRICAL TOOLS AND POWER CORDS

- a. Tools and cords shall be used in conjunction with Ground Fault Circuit Interrupters (GFCI).
- b. Employees shall not operate electrical tools while standing in water.
- c. Electrical tools shall not be hoisted or carried by their power cords.
- d. Extension cords shall be free of repair or splice and kept clear of traffic aisles and not subjected to vehicular traffic.

4. AIR TOOLS AND HOSES

- a. Attachments shall be secured to tools by proper retainers.
- b. Retainer rings on impact sockets and attachments shall be taped to prevent displacement.
- c. Tools shall not be hoisted or carried by their hoses.
- d. Crows-foot type connections on air hoses shall use whip checks at each connection.
- e. All air compressors with hoses that have an inside diameter of ½ inch or greater must have a safety check valve in place.

5. OXY-ACETYLENE EQUIPMENT

- a. This equipment shall be kept free of oil, grease, or other hydrocarbons (oil based products).
- b. Oxy-acetylene equipment shall be inspected for gas leaks and defects prior to use.
- c. Oxy-acetylene equipment shall not be exposed to sparks, slag, flame, or other heat sources.
- d. Flashback arresters located adjacent to the regulators are required on both the fuel and oxygen systems.
- e. Compressed gas cylinders shall be used and stored as follows:
 - Cylinders shall be secured in an upright position during use, storage, and transportation.

- Protective caps shall be in place over valve stems when regulators are not in place, when cylinders are in storage, and when cylinders are being transported or hoisted by motorized vehicles or equipment.
- Cylinders shall not be taken into confined spaces.

6. MANUAL HOISTING EQUIPMENT (i.e., chain-falls & come-alongs)

- a. Hooks must have safety latches.
- b. Chokers shall be used to secure hoist to supporting structure and to the load.
- c. Load chains shall not be wrapped or choked around loads. Hooks of hoists shall not be hooked into the flange or structural beams.

I. CRANES AND RIGGING

SIGNALING

A signal person must be provided when:

- Point of operation or area at or near load placement isn't in full view of the operator
- The view in the direction of travel is obstructed; and
- Other site-specific concerns

Employee will not signal a crane without receiving proper training and permission from their supervisor

WORK AROUND POWERLINES

OSHA requirements for operations near power lines UP TO 350 KV are listed below. If the lines are above 350KV, please reference OSHA STD 1926.1409.

One of the following three options established for power lines shall be followed:

1. Option one would be de-energizing & physically grounding the power lines.
2. Option two would be maintaining a 20-foot distance.
3. Option three is maintaining the distances specified in Table A on page 28 below.

UNDER ALL OPTIONS, THE FOLLOWING MUST OCCUR:

- A work zone must be established with flagging, ropes, barricades, etc, and work outside of the work zone would be prohibited. The work zone would have to be defined 360 degrees around the equipment up to the equipment's maximum working radius
- All power lines are assumed to be energized until confirmed by the utility company of being de-energized

Options 2 and 3:

- Pre-task meetings will determine where power lines are located and will identify what will be done to prevent encroachment
- In these situations the employer would be required to do the following
- Use non-conductive tag lines,
- Erect & maintain warning lines, barricades, etc. at 20-feet or the distances specified in Table A,
- Implement any one of the following;
- The use of a proximity alarm
- Dedicated spotter,
- The use of a device that will automatically warn the operator when to stop
- The use of a device that will automatically limit range of movement
- Having an insulated link/device installed between the end of the load line & the load
- No equipment can operate underneath power lines unless they are de-energized, except when:
 - Erecting new electric transmission and distribution lines, as found under Subpart V of 1926
 - the equipment has a non-extensible boom, and it is more than 20 feet below the power line or more than the minimum clearance distance as found under Table A
 - the equipment has an articulating or extensible boom, then more than 20 feet below the power line when fully extended, or more than the minimum clearance distance as found under Table A

OPTION 3

When option 3 is used the utility company must provide voltage information within two days

The standard prohibits working inside of the limits indicated in Table A unless:

- The employer demonstrates that is infeasible without breaching the distance under Table A
- After consultation with the utility company it was determined it was infeasible to de-energize or relocate the power lines
- The utility company or RPE (registered professional engineer) who is qualified for electrical power transmission determines a minimum clearance distance.

IF WORK IS DONE WITHIN 20 FEET OF LINES, PLEASE REFER TO OSHA STD 1926.1410

TRAINING

In the case of accidental contact, Workers MUST be trained in the following:

- What to do in the event of an accidental contact
- The importance of the Operator staying in the cab unless necessary to leave
- The danger of the area around the crane and the safest means of exiting the energized equipment

- Ensure the crew understands not to approach or touch the energized equipment
- Clearance distance from power line
- Limitations of an insulating device or proximity alarm
- The procedure to properly ground equipment
- If working as a spotter, then trained to perform as a spotter and knowledge of the OSHA Stds when working around lines

Table A – Minimum Clearance Distances	
Voltage (nominal, kV, alternating current)	Minimum clearance distance (feet)
up to 50	10
over 50 to 200	15
over 200 to 350	20
over 350 to 500	25
over 500 to 750	35
over 750 to 1000	45
over 1000	(as established by the power line owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution)

GENERAL CRANE SAFETY

- Only authorized personnel may operate cranes (conventional or hydraulic)
- Cranes shall not be operated with improperly rigged loads or loads beyond their rated capacities and limits. Rated load capacities, recommended operating speeds, and manufacturer's operating instructions shall be posted conspicuously at the operator's station.
- Crane operators shall sound their warning horn prior to swinging loads.
- Signal transmission must be tested and be through a dedicated channel(unless multiple cranes or signal persons are used or a crane is operated near railroad tracks where other equipment or trains are on the track area)
- Accessible areas of cranes rotating superstructure and counterweight shall be barricaded.
- A crew member must alert the operator before moving to a location out of the operator's view. The operator will not move the equipment until he is informed of the crew member's new safe position.
- Employees shall never be under the boom or jib when pins are being removed

- When a suspended load is not moving, employees are not allowed in the fall zone unless:
 - Engaged in hooking, unhooking, guiding
 - Engaged in initial attachment of the load to a structure
 - Operating a concrete hopper or bucket
 - They are receiving the load
- An ABC multi-class dry chemical type fire extinguisher shall be located at the operator's station or in the crane cab at all times.
- Modifications or additions that affect the capacity or safe operation of the crane shall not be made without the manufacturer's written approval.
- All booms and jibs shall have positive stops to prevent their movement beyond 5 degrees of vertical. Cable type belly slings are not acceptable as boom or jib stops.
- Cranes will be equipped with audible back-up alarms and/or strobes lights so employees in the area around the crane will be aware when the crane is moving.
- Riding the lifting line, ball, hook or suspended load of any crane is prohibited.
- Communication methods that will be used during the pick(s) shall be reviewed before the pick
- Review sling selection including the determination of what rigging equipment & hardware will be used so the pick can be made safely.
- Review hitch selection including how it was determined that the hitch selection (basket, vertical, hitch) will be the best option for the pick being made.
- Load control- Tag lines or other methods must be mentioned so it is known how the load will be controlled during the pick.
- Site-specific information- Any site-specific safety issue & safeguards shall be reviewed with all workers to protect them from hazards. (Environmental conditions, power lines, etc.)

ASSEMBLY/DISASSEMBLY OSHA STD 1926.1403

- Work will be directed and supervised at all times by a Competent and Qualified Assembly/Disassembly person; or by a competent person who is assisted by one or more qualified persons (A/D Director). If the assembly/disassembly is performed by only one (1) person, that person must meet the criteria of a competent & qualified person. They will be the A/D Director.
- The A/D must understand the applicable procedures & review the procedures immediately prior to the commencement of assembly/disassembly unless the A/D Director understands the procedures and has applied them to the same type and configuration of equipment (including accessories).
- The assembly and disassembly of the crane will be conducted by following the manufacturer's procedures
- Assembly/disassembly is prohibited below and near energized power lines

- During Assembly/Dismantlement work, fall protection is required when 15-feet or more
- Non-assembly/Dismantlement work fall protection is required at 6-feet or more
- A post assembly inspection must be done by a qualified person before use
- The competent person will determine what type of rigging equipment & what type of rigging hitch will be used to make the pick. If a subcontractor is performing the pick then their assigned competent person would be responsible to make these determinations.
- All rigging will be done by a **qualified** rigger.
- Rigging equipment, Slings, and all fastenings and attachments shall be inspected daily or prior to use by a competent person. Defective equipment or slings shall be removed from service. Additional inspections may be necessary during sling use.
- Synthetic slings must be protected from abrasive, sharp or acute edges, and configurations that might reduce the sling's rated capacity.
- Capacities of rigging equipment shall not be exceeded.
- Loads must not be hoisted unless the weight is known and the rigging equipment is adequate and properly attached.
- Manufacturer procedures will be used when using synthetic slings during assembly or disassembly of rigging.
- All rigging equipment must have affixed and legible identification markings as prescribed by the manufacturer that indicates the recommended safe working load. You can find a monthly inspection form for Chain Link Rigging in Item "D".

Alloy steel chains-. Please refer to OSHA Section 1926.251 I

- Welded alloy steel chain slings shall have permanently affixed durable identification stating size, grade, rated capacity, and sling manufacturer.
- Hooks, rings, oblong links, pear-shaped links, welded or mechanical coupling links, or other attachments, when used with alloy steel chains, shall have a rated capacity at least equal to that of the chain.
- Job or shop hooks and links, or makeshift fasteners, formed from bolts, rods, etc., or other such attachments, shall **not** be used.

- A thorough periodic inspection of alloy steel chain slings in use shall be made on a regular basis, and defective chain links must be taken out of service. The inspection will be determined on the basis of
 1. Frequency of sling use;
 2. Severity of service conditions;
 3. Nature of lifts being made; and
 4. Experience gained on the service life of slings used in similar circumstances.

OUTRIGGERS AND STABILIZERS

- Outriggers and stabilizers will be fully extended or, if permitted by the manufacturer's procedures, deployed as specified in the load chart.
- Outriggers must be set to remove equipment weight from the wheels, except for locomotive cranes.
- Outrigger floats, if used, must be attached to the outriggers; stabilizer floats, if used, must be attached to the stabilizers.
- Each outrigger or stabilizer must be visible to the operator or to a signal person during extension and setting.
- Outrigger and stabilizer blocking must be placed under the float/pad of the jack or if there is no jack, under the outer bearing surface of the outrigger or stabilizer beam. Blocking must also be sufficient to sustain the loads and maintain stability and must be properly placed

J. PERSONNEL LIFTS (JLG, CONDOR, SNORKEL, etc.)

1. Only authorized personnel may operate lifts.
2. Lifts shall be used on surfaces that fully support them.
3. Dead man type safety switches and controls shall not be bypassed.
4. Lifts shall be kept at least 10 feet from energized electrical equipment and lines. See supervisor for clearance restrictions for lines greater than 50kv.
5. Employees using lifts must wear approved fall protection equipment and attach the lanyard to the basket while aloft. (Boom Lifts only)

K. EXCAVATIONS

- Prior to opening an excavation, all utilities will be identified and accounted for i.e., sewer, telephone, water, fuel, electric, gas lines, etc. When the excavation approaches the location of such an installation, the exact location shall be determined,

and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies, authorities and if necessary Local Municipal Agencies shall be contacted and advised of proposed work prior to the start of actual excavation.

- Where existing underground utilities, etc. are within ten feet from the exposed excavation, the supervisor shall visually establish the position of the underground utilities, etc. from the observance of buried utilities surface markers, or in their absence, by hand tool excavation at sufficient intervals.
- The walls and faces of all excavations in which employees are exposed to danger from moving ground shall be guarded by shoring, sloping to the proper angle of repose, or some other equivalent means.
- The determination of the angle of repose and design of the supporting systems shall be based on careful evaluation of pertinent factors such as type of soil; possible variation in water content of the material while the excavation is open; anticipated changes in materials from exposure to air, sun, water, or freezing; loading imposed by structures, equipment, overlying material; and vibration from equipment, traffic, or other sources. The soils report shall be used as a guideline for cutting back the excavation sides to the proper angle of repose. Any shoring system being used on excavations 20' deep or less should use the suggested design systems as offered in the OSHA standard. Any shoring systems that are deeper than 20' or are different than the suggested OSHA designs shall be stamped by a professional engineer. Copies of the shoring system drawings must be on site during the excavation activities.
- The excavation shall be inspected after every rainstorm, thawing or other hazard-increasing occurrence, and the protection against slides or cave-ins shall be increased if necessary. Signs of cracking or sliding of soils on tops or sides of the excavation are danger signs. In areas where excessive vibrations are present (adjacent to railroads, roads, etc.) inspections will be performed throughout the day as well.
- Where the potential for a hazardous atmosphere is in existence, appropriate testing must be done to determine if the atmosphere is safe. Some excavations because of atmospheric conditions or for other reasons (cofferdams, sheeting, other environmental conditions) may be classified as confined spaces. In the event of an excavation/trench being classified as a confined space then the procedures indicated in the confined space section will be adhered to.
- All excavations 4' foot deep requires an exit of egress every 25' feet of lateral travel. The means of egress may be a ladder, stairway or ramp.
- In excavations which employees may be required to enter, excavated or other material shall be kept back at least 2 feet from the edge of the excavation.
- Water shall not be allowed to accumulate in an excavation. Diversion ditches, dikes, or other suitable means shall be used to prevent surface water from entering an excavation and to provide adequate drainage of the area adjacent to the excavation.

- Adequate physical barrier protection shall be provided at all remotely located excavations into which persons may fall and not be able to climb out because of steepness of sides. Wells, pits, shafts, etc., shall be barricaded or covered.
- Walkways and ramps over excavations shall be constructed of 2 inch planking, or equivalent, on strong stringers, with guardrails on both sides.
- If it is necessary to place or operate excavating machinery or trucks on a level above and near an excavation, the side of the excavation shall be sheet-piled or shored, and braced as necessary to resist the extra pressure of such superimposed loads.
- When mobile equipment is used or allowed adjacent to excavations, substantial stop logs or barricades shall be installed.
- Sides of trenches more than 5 feet deep shall be shored or sloped back to the angles of repose. Type C soil should be assumed. If sloping or benching is the option of protection a minimum of a 1.5:1 slope must be achieved.
- Portable trench boxes or sliding trench shields may be used for the protection of employees in lieu of shoring or sloping. They shall be designed and constructed to provide protection equal to or greater than shoring required for the trench.
- Access ladders used for access/egress to trenches that are being protected with a trench box must be placed on the inside of the trench box at all times.
- Trench boxes must be backfilled on both sides before employees access.
- There must be a clearance of 18" from the ground and the top of the trench box & the trench box cannot be more than 2-feet from the bottom of the trench.
- Open excavations in the public way shall be securely covered over with 2" steel plate, or 3/4 plywood or its equivalent, that must be properly supported and secured, or guarded on all open sides with a standard guardrail during non-working hours.

L. CONFINED SPACE ENTRY

1. Employees who encounter a confined space confined space, which is defined as a limited means of access and egress, and not intended for human occupancy, must speak to their supervisor before entering the area.
2. No employee may enter a permit confined space without the knowledge of his/her supervisor
3. Employees shall not enter any confined space unless it has been tested for oxygen content, absence of flammable and/or toxic vapors and/or substances.

4. Positive ventilation (air movers or fans) shall be used to provide fresh air exchange in confined spaces. (If required)
5. Cylinders containing oxygen, acetylene or other fuel gases shall not be taken into a confined space

M. ELECTRICAL SAFETY

1. Temporary lights shall be equipped with guards to prevent accidental contact with the bulb.
2. All cord assemblies exiting temporary panels/electrical boxes must have adequate strain relief.
3. All work on electrical installations will be done in a de-energized state.

N. TAG-OUT AND LOCK-OUT PROCEDURES

Employees shall not perform any work including repair change attachments on electrical circuits, equipment, or mechanical equipment unless the power supply or source of said equipment is positively disconnected or shut off by a qualified employee and locked out/tagged out. If the power source is locked out or tagged out, no employee is permitted to remove the lock out /tag out device.

“WARNING DO NOT START” tags must be placed at the control box or main switch by the employee who will perform the maintenance or repair, in accordance with the following instructions:

Electrical

- All electrical equipment involving the use of disconnect switches as a source of power for their operation will be turned off, locked out in the “OFF” position, and tagged with a “WARNING” tag.
- After the equipment has been locked out and tagged with a “WARNING” tag, the employee will attempt to start the equipment to insure that the proper switch has been locked out and the equipment will not start.

Pneumatic and Hydraulic

- All equipment operated pneumatically or hydraulically will be rendered inoperable by turning off the air or hydraulic supply to that piece of equipment and tagging the valve with a “WARNING DO NOT START” tag.
- After the equipment has been locked out and tagged with a “WARNING DO NOT START” tag, the employee will attempt to start the equipment to make sure that the proper switch and valve were locked out and the equipment will not operate.

- Make sure the equipment will not operate from a residue of pneumatic or hydraulic pressure.

Mobile or Vehicular Equipment

- Where a keyed switch controls the ignition, the key shall be placed in the “OFF” position, removed, and the switch tagged with a “WARNING DO NOT START” tag.
- Vehicles not equipped with a keyed ignition switch shall be tagged with a “WARNING DO NOT START” tag at the starter button or switch.
- In the event of tagging and removing the ignition key are not considered adequate protection, the battery cable that is connected to the starter shall be removed at the battery and tagged with a “WARNING DO NOT START” tag.

Additional Requirements

- No employee shall remove a lock, lock-out device, or “WARNING DO NOT START” tag other than their own.
 1. In the event an employee leaves the equipment and forgets to remove the lock and tag, the employee is to be required to return to the equipment and remove the lock-out and tag.
 2. Tags used for lock out/tag out shall identify the employee installing tag.
- Each employee shall have his own lock with one key. Each employee must lock out at the disconnect switch and/or valve. Do not trust someone to lock out for you.
- After locking out, put your key in your pocket.
- Place the “WARNING DO NOT START” tags at the disconnect switch and/or valve.
- If more than one person is working on a piece of equipment, use a multiple lock-out with each man using his own lock.

Deviations

- Your immediate supervisor must approve any deviation from these procedures.
- A violation of lock-out procedures is cause for dismissal.

Lock-Out Procedures

- Shall be developed at the project level for their specific operation and application

O. HOUSEKEEPING

1. Scrap and debris from work activities shall be frequently removed from work areas.

2. Materials shall be stored in an orderly fashion and clear of work areas and traffic lanes.
3. Protruding nails shall be removed or bent over in scrap lumber.

P. WORK ZONE SAFETY Highway and Road

1. All employees will be required to wear, at least, class one retro reflective vests at all times manufactured in accordance with ANSI 107. 1999 standards.
2. Employees will at no time position themselves between moving equipment and live traffic.
3. If employees are required to work near moving equipment then constant eye contact shall be maintained between employee on foot and equipment operator.
4. Only properly trained and certified employees shall be allowed to control traffic. (i.e. Flag Persons)
5. Only employees that are competent in traffic control procedures will be allowed to operate an approved pace vehicle.
6. Traffic control will be maintained in accordance to MUTCD.

Q. SIGNS, SIGNALS, AND BARRICADES

1. Before the start of work in any work zone a competent person shall drive through the entire work zone to visually inspect that all traffic control devices are in place and function properly.
2. All traffic control devices will be set up in accordance with an approved traffic control plan.
3. No employee is allowed to move, relocate, reposition, or change the work zone in any way without approval from the site foreman or superintendent.

R. EMERGENCY RESPONSE

1. All employees shall learn and recognize site emergency alarms or signals.
2. Repeated blasts of any equipment horn will be used as a universal alarm and all employees must report to their foreman immediately.
3. All employees shall learn evacuation routes and assembly points.

S. ON – TRACK - SAFETY

All employees required to work near a railroad track system shall receive appropriate on track safety training and shall be required to pass a written test, prior to working near the track system.

Do not work near a railroad track system unless you have received this training.

T. DRUG /ALCOHOL POLICY & PROCEDURES

1. POLICY STATEMENT

F.H. Paschen recognizes the problems created by drug and alcohol abuse and the need to develop prevention and treatment programs. F.H. Paschen has a commitment to protect people and property, and to provide a safe working environment.

F.H. Paschen has a zero tolerance drug and alcohol policy and the Safety Program calls for a drug free workplace. The Drug/Alcohol Policy & Procedures apply to all medications, drugs, legal or illegal, including medicinal and recreational marijuana and all illicit or illegal drugs. The purpose of the F.H. Paschen Drug/Alcohol program is to establish and maintain a drug free, alcohol free, safe, healthy work environment for all of its employees.

All employees are covered by this policy and must abide by the provisions set forth in this policy as a condition of employment with F.H. Paschen.

Any employee who is convicted of any violation of any federal or state drug statute occurring in the workplace must notify the Company of the conviction no more than five (5) days after the conviction. Any employee convicted of a violation of a drug abuse statute in the workplace may be terminated or required to participate in a drug abuse assistance or rehabilitation program.

2. DEFINITIONS

A. Company Premises - The term "Company Premises" as used in this policy includes all property, facilities, land, buildings, structures, equipment, automobiles, trucks, and other vehicles owned, leased or used by the company. Construction sites are included. This definition also applies to situations where employees are going to or coming from a construction site.

B. Prohibited Items & Substances - Prohibited items and substances include illegal drugs, medicinal and recreational marijuana, all controlled substances and medications, look alike drugs, and designer drugs, alcoholic beverages, in any type of container, and drug paraphernalia in the possession of any employee on Company Premises.

C. Employee - Individuals, who perform work for F.H. Paschen including, but not limited to, management, supervision, engineering, tradesmen, laborers, and clerical personnel.

D. Accident - Any event resulting in any type of injury to any person or any property for which an employee was solely or partially responsible for causing..

E. Incident - An event which has all the attributes of an accident, except that no injury was caused to any person or any property.

F. Reasonable Suspicion- Reasonable suspicion of impairment or being under the influence of prohibited substances will be found based upon an interview with the employee by one or more of the employee's supervisors and based upon observations of the employee's behavior to be documented on the attached reasonable suspicion checklist. Changes in an employee's behavior or job performance may be, but are not limited to, absenteeism, erratic behavior, erratic speech, inability to maintain proper balance, incoherence or disorientation.

3. **CONFIDENTIALITY**

A. F.H. Paschen has only the interests of its employees in mind and therefore encourages any employee with a substance abuse problem to come forward and voluntarily accept our assistance in addressing that problem. An employee assistance program will provide guidance and direction for you during your recovery period. If you volunteer for help, the company will make every reasonable effort to return you to work upon your recovery. The company will also take action to assure that your substance abuse problem is handled in a confidential manner. However, voluntary requests for assistance will not in any manner preclude F.H. Paschen from taking any disciplinary actions for the violation of this policy.

B. All information obtained or collected from the use of this policy will be maintained in separate, confidential medical files.

C. All actions taken under this policy and program will be confidential and disclosed only to those with a "need to know."

D. When a test is required, the specimen will be identified by a code number, not by name, to ensure confidentiality of the donor. Each specimen container will be properly labeled and made tamper proof. The donor must witness this procedure.

E. Unless an initial positive result is confirmed as positive, it shall be deemed negative and reported by the laboratory as such. This needs to be confirmed by medical staff.

F. The handling and transportation of each specimen will be properly documented through the strict chain of custody procedures.

4. **RULES**

All employees must report to work in a physical and/or mental condition that will enable them to perform their jobs in a safe and efficient manner.

Employees shall not:

1. Report to work with any amount of prohibited substances in their system.
2. Use, manufacture, possess, dispense or receive prohibited items and/or substances on or at the Company Premises including construction sites.
3. Prescription Drugs - Employees using any prescribed medication must immediately inform their supervisor of such prescription drug use if it will affect their ability to perform their designated job duties. For the safety of all employees, the company will consult with you and your physician to determine if a re-assignment of duties is necessary. The company will attempt to accommodate your needs by making an appropriate re-assignment. However, if a re-assignment is not possible, you will be placed on temporary unpaid medical leave until released as fit for duty by the prescribing physician.

5. DISCIPLINE

When the company has reasonable suspicion to believe an employee is under the influence of a prohibited substance, the employee may be suspended until test results are available. If the test results prove negative, the employee shall be reinstated. In all other cases:

1. Applicants testing positive for prohibited items or substance use will not be hired.
2. Employees who have not voluntarily come forward and who test positive for prohibited items or substance use will be subject to disciplinary action, up to and including termination.
3. Employees who refuse to cooperate with testing procedures will be subject to disciplinary action, up to and including termination.
4. Employees found in possession of prohibited items or substances while on Company Premises, including construction sites, will be subject to disciplinary action, up to and including termination.
5. Employees found using, selling manufacturing, receiving, or distributing prohibited items or substances while on Company Premises will be subject to disciplinary action, up to and including termination.
6. Employees who test positive for prohibited items or substance while on Company Premises or while operating any company vehicle will be subject to disciplinary action, up to and including termination.
7. Employees who violate the Prescription Drugs section of this policy will be subject to disciplinary action, up to and including termination.

6. DRUG / ALCOHOL TESTING

The company may conduct drug and alcohol testing under the following conditions:

- A. A pre-employment drug screen will be administered to applicants who have been

made an offer of employment. Any refusal to complete the pre-employment drug screen shall be considered a voluntary withdrawal of the applicant's application for employment.

B. A test will be administered in the event a supervisor has a reasonable suspicion to believe that the employee has reported to work under the influence, or is or has been under the influence while on Company Premises, of a prohibited substance or has violated this drug policy. During the process of establishing reasonable suspicion for testing, the employee will be provided with an opportunity to explain his/her conduct to the supervisor.

C. Testing will be required if an employee is involved in a workplace accident involving personal injury or damage to property.

D. Testing will be required as a part of a follow-up to counseling or rehabilitation for substance abuse, for a 1-year period.

E. Testing will be required in accordance with the project owner's specific rules and regulations.

7. REHABILITATION AND EMPLOYEE ASSISTANCE PROGRAM

Employees are encouraged to seek help for a drug and/or alcohol problem. If an employee voluntarily notifies supervision that he or she may have a substance abuse problem, the company will assist in locating a suitable medical benefits facility available under the company insurance program for employees who are covered by the company insurance program.

If treatment necessitates time away from work, the company shall provide for the employee a one-time unpaid leave of absence for purposes of participation in an agreed upon treatment program. An employee who successfully completes a rehabilitation program shall be reinstated to his/her former employment status, if work for which he/she is qualified exists. For the purposes of this policy, the term former employment status will mean a position which is comparable to the employee's previous position before the unpaid leave of absence for participation in the treatment program. F.H. Paschen will solely determine the issue of former employment status.

Employees returning to work after successfully completing the rehabilitation program will be subject to drug and alcohol tests without reasonable suspicion for a period of one (1) year. A positive test will subject the employee to disciplinary action, up to and including termination.

U. HAZCOM

The superintendent or the designated (competent jobsite safety person) (CJSP) will have the SDS of all hazardous chemicals present in the work area. Utilization of a phone application

is allowed. Training will be provided to all employees within their first 30 days of employment, and before they are potentially exposed to the materials. Additional training will be required when a new product with substantially different hazards is introduced, or when a previously unrecognized hazard is identified. Information will be shared with other onsite employers, if the possibility of exposure exists. The other employers are responsible for training their onsite staff.

Employees will be trained to work safely with hazardous chemicals. Employee training will include:

- Methods that may be used to detect a release of a hazardous chemical(s) in the workplace;
- Safe work practices, emergency responses and use of personnel protective equipment;

Hazards of Non-Routine Tasks

Supervisors will inform employees of any special tasks that may arise which would involve possible exposure to hazardous chemicals. Where necessary, areas will be posted to indicate the nature of the hazard involved.

1. Safety Data Sheet (SDSs)

Employees working with a hazardous Chemical may request a copy of the safety data sheet which are onsite with the superintendent or the designated (competent jobsite safety person) (CJSP).

The following are the SDS sections you will find and what information they contain:

- Identification-** includes the name of the product, contact info with emergency phone number of the manufacturer or distributor. This section also includes information about recommended use and restrictions on use.
- Hazard Identification-** includes hazard classification, a signal word (either “danger” or “warning”), hazard statements, pictograms, precautionary statements, and descriptions of other hazards. This section can also include information about the percentage of ingredients that have unknown toxicity.
- Composition/Information on Ingredients-** includes information such as the chemical name (or names, in the case of a mixture), the common name or names, the Chemical Abstracts Service (CAS) number and other unique identifiers, impurities and stabilizing additives, and information on percentage of mixtures that might fall under “trade secrets.”
- First-Aid Measures-** includes first-aid instructions, the signs, symptoms, and methods of exposure, and information about medical treatment. Make sure you read this section.
- Fire-Fighting Measures-** lists techniques and equipment needed to extinguish a fire. It may also describe hazards that are created when the chemical burns.
- Accidental Release Measures-** explains how to respond to chemical spills, leaks, or releases in order to protect you, your co-workers, and your community.
- Handling and Storage-** describes precautions for safe handling and storage and may list incompatible chemicals.
- Exposure Controls/Personal Protection-** tells you about the PPE you need to wear and the safety controls that must be in place. It also lists Permissible Exposure Limits (PELs) and Threshold Limit Values (TLVs). Read this section carefully.

- i. **Physical and Chemical Properties-** describes the chemical's characteristics, like flash point, appearance, melting point, etc.
- j. **Stability and Reactivity-** describes reactivity hazards and explains how stable the chemical is under normal conditions. It may describe changes in appearance that indicate danger.
- k. **Toxicological Information-** identifies toxicological and health effects including symptoms and routes of exposure, acute and chronic health effects, and numerical toxicity measures.
- l. **Ecological Information-** describes the chemical's effects on the environment if it is released.
- m. **Disposal Considerations-** provides guidance on disposal, recycling, and reclamation of the chemical and/or its container. Check Section H on PPE again before disposing or recycling.
- n. **Transportation Information-** gives guidance on shipping and transporting the chemical by road, air, rail, or sea.
- o. **Regulatory Information-** provides data regarding all of the government agencies and regulations that control the use or transportation of the chemical or product.
- p. **Other information-** includes the date of preparation, the last revision, and other useful info

2. LABELS

Labeling shall follow the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Chemicals on site will be stored in their original or approved containers with a proper label attached, except small quantities for immediate use. Any container not properly labeled shall be given to the CJSP for labeling or proper disposal. Workers may dispense chemicals from the original containers only in quantities intended for immediate use. Any Chemical left after work is completed must be returned to the original container or the CJSP for proper handling. No unmarked containers of any size are to be left in the work area unattended. Each label on the hazardous chemical container will have the following elements:

- a. **Supplier Identification-** provides the name, address, and phone number of the manufacturer or supplier of the product
- b. **Product Identifiers-** gives the chemical name or an identifying number. The identifying number is the same on the label as it is in Section 1 of the corresponding Safety Data Sheet.
- c. **Pictograms-** red squares that are tipped up on their points. Inside is a black hazard symbol on a white background. These pictograms communicate hazards such as; irritant, explosive, corrosive, etc.
- d. **Signal Words-** indicate the hazard severity. There are two signal words, DANGER; which is used for more severe hazards and WARNING; for less severe hazards. One chemical may have several hazards
- e. **Hazard Statements-** describes the nature of a material's hazard and assigns it to a hazard class and category.

- f. **Precautionary Statements**- describes actions to take to minimize or prevent exposure. Gives info on proper PPE, first aid treatment for over exposure, and how to **properly store the chemical**.
- g. **Supplemental Information**- is additional information about the chemical that isn't required or specified under the GHS System

If you need more information than that printed on the label, refer to the SDS for the chemical. If a label is becoming unreadable, notify your supervisor so he/she can replace it immediately.

Does everything need a label?

There are a few situations that do not require HazCom labeling.

These include:

- a. Portable containers of chemicals that you have transferred from a labeled container when you are the only person who will handle the unlabeled container and it will not be used on other shifts.
- b. Products like foods, drugs, cosmetics which are regulated by other agencies.
- c. Individual stationary process containers that use signs or batch tickets instead of labels

3. Physical & Health Hazards

The physical and health hazards and the symptoms of overexposure can be found on the SDS.

Here are the chemical categories which are considered physical hazards:

- | | |
|---|------------------------------|
| 1. Explosive | 2. Flammable Gases |
| 3. Flammable Aerosols | 4. Oxidizing Gases |
| 5. Gases Under Pressure | 6. Flammable Liquids |
| 7. Flammable Solids | 8. Self- Reactive Substances |
| 9. Pyrophoric Liquids | 10. Pyrophoric Solids |
| 11. Self-Heating Substances | 12. Oxidizing Liquids |
| 13. Oxidizing Solids | 14. Organic Peroxides |
| 15. Substances Corrosive to Metal | |
| 16. Substances Which in Contact with Water Emit Flammable Gases | |

Here are the general chemical categories that are health hazards:

- | | |
|---|---------------------------|
| 1. Acute Toxicity | 2. Skin Corrosion |
| 3. Skin Irritation | 4. Eye Effects |
| 5. Sensitization | 6. Germ Cell Mutagenicity |
| 7. Carcinogenicity | 8. Reproductive Toxicity |
| 9. Aspiration Toxicity | |
| 10. Target Organ Systemic Toxicity: Single Exposure & Repeated Exposure | |

A Few Examples of some of the above are:

- a. Carcinogenicity (cancer-causers)- benzene and formaldehyde.
- b. Acute Toxicity- lawn and garden insecticides and arsenic compounds.

- c. Skin Irritants- bleaches or ammonia.
- d. Skin Corrosion- battery acid or caustic sodas.
- e. Sensitization- creosote or epoxy resins.
- f. Reproductive Toxicity- thalidomide or nitrous oxide.
- g. Target Organ Systemic Toxicity- sulfuric acid (affects skin) or asbestos (affects lungs).










You can determine chemical hazards by looking at the chemical's label and/or its safety data sheet (SDS). To minimize exposure, follow the directions.

Review of safe work procedures and use of required PPE shall be conducted prior to the start of such tasks. Measures you can take to protect yourself are:

- These measures might include personal protective equipment (i.e., gloves, face shields, aprons, foot gear, full-body suits, and respirators),
- Work practices for doing your work in the safest manner (i.e., keeping containers labeled, using tools instead of your hands to apply chemicals, and storing and transferring chemicals appropriately),

Emergency procedures (i.e., knowing where eyewash stations are located, knowing when to flush chemical burns with water and when not to, knowing where to retrieve SDSs in an emergency).

GHS Labeling Pictograms

HAZCOM STANDARD PICTOGRAMS		
<p>Health Hazard</p>  <ul style="list-style-type: none"> • Carcinogen • Mutagenicity • Reproductive Toxicity • Respiratory Sensitizer • Target Organ Toxicity • Aspiration Toxicity 	<p>Flame</p>  <ul style="list-style-type: none"> • Flammables • Pyrophorics • Self-Heating • Emits Flammable Gas • Self-Reactives • Organic Peroxides 	<p>Exclamation Mark</p>  <ul style="list-style-type: none"> • Irritant (skin and eye) • Skin Sensitizer • Acute Toxicity (harmful) • Narcotic Effects • Respiratory Tract Irritant • Hazardous to Ozone Layer (Non-Mandatory)
<p>Gas Cylinder</p>  <ul style="list-style-type: none"> • Gases Under Pressure 	<p>Corrosion</p>  <ul style="list-style-type: none"> • Skin Corrosion/ Burns • Eye Damage • Corrosive to Metals 	<p>Exploding Bomb</p>  <ul style="list-style-type: none"> • Explosives • Self-Reactives • Organic Peroxides
<p>Flame Over Circle</p>  <ul style="list-style-type: none"> • Oxidizers 	<p>Environment (Non-Mandatory)</p>  <ul style="list-style-type: none"> • Aquatic Toxicity 	<p>Skull and Crossbones</p>  <ul style="list-style-type: none"> • Acute Toxicity (fatal or toxic)

Please familiarize yourself with each Pictogram above. Remember, each pictogram is used to identify a various hazard.

4. What should you do in case of a spill?

Contact your immediate supervisor immediately!

- a. Don't ever enter a chemical emergency situation alone.
- b. Don't touch spills without proper PPE
- c. Avoid contaminated clothing of injured persons.
- d. Check the area for potential hazards such as electrical cords or wires near the spill or obstacles in the path of the emergency response team.
- e. Check for injuries and notify emergency medical personnel.
Decontaminate victims, if possible.
- f. Cooperate with emergency personnel when they arrive, and pass on any information you've gathered.

Before help arrives

- a. Determine the potential hazards. (Look at the safety data sheet.)
- b. Know about spill equipment and safety personnel.
- c. Know the exits and escape routes.
- d. Know the location of fire extinguishers.
- e. Know first aid and where to get first aid equipment.

F.H. Paschen Sticker # _____

F.H. Paschen, S.N. Nielsen & Associates LLC

**EMPLOYEE CODE OF SAFE WORK PRACTICES
PROGRAM**

The undersigned verifies receiving initial orientation training on F.H. Paschen, S.N. Nielsen & Associates LLC's code of safe work practices. The employee also agrees that he/she has watched the F.H. Paschen, S.N. Nielsen & Associates LLC Safety Video.

F.H. Paschen, S.N. Nielsen & Associates LLC
Company Name: _____

Administrator (Print Name)

Administrator's Signature & Date Signed

Employee (Print Name)

Employee's Signature & Date Signed

The original signature page will be kept with the employer in the employee file at the main office. One copy will be kept onsite with the employee's sign-up package. The safety rules and regulations will be given to the employee upon signing this document along with an F.H. Paschen hard hat safety sticker. The administrator will document in the above right hand corner the number assigned to the employee which is found on the F.H. Paschen hard hat safety sticker

Appendix B

F.H. Paschen, S.N. Nielsen & Associates LLC's Accident and Exposure Reporting Procedures

I. What do you Do when an Accident Occurs?

In the case of a serious accident or injury, please follow the below steps

WARNING - Do not attempt to enter an accident location for investigation or rescue until you have verified that the hazard that created the incident has been controlled. Two out of three fatalities are "Would Be Rescuers."

- **Provide Medical care for any injuries sustained**
This may include onsite medical care (if properly trained), transportation to a medical facility, or contacting 911
- **Control the existing hazard to prevent any further injuries**
- **Preserve all evidence and secure the scene.**

As soon as possible after the accident, the area must be secured in order to prevent any alteration of the scene prior to the investigation. If equipment tools or materials are involved in the accident, make arrangements to have all items removed from service and placed in safekeeping. If this is impractical, the area shall be closed off.

The following are guidelines:

- Alerting all supervisory personnel of the accident and for instructions on preserving the scene,
- Determine who will take possession of the evidence (ladder, scaffold, misc. material) If it is a Subcontractor's tool, equipment, or material, then we PREFER the subcontractor takes possession and preserve the evidence.
- Identify how the evidence will be moved and videotape or take photographs of the evidence being relocated.

Take Photographs Immediately as Conditions May Change (*Take too many pictures, instead of too few!*)

- Sufficient photographs should be taken as soon as possible since conditions often change rapidly
- Take photographs of any objects or material that may have caused the accident
- Take photographs of the area where the accident occurred, pinpointing where any injured victims were located during the accident
- Then take photographs of the surrounding area, in an east, west, north, and south manner for a panoramic view
- Take photographs of measurements(depth of a hole or height at which a worker fell)

Statements

- Interview, if possible, injured workers and obtain signed statements
- Interview all witnesses
- Separate the witnesses and obtain statements separately

The interviewer(s) must obtain **first-hand facts** and not hearsay. The information obtained should be recorded. Each witness must sign and date their statement. Each statement should include the following information:

- **Date and time of accident/interview**
- **Documentation of what they saw, heard and their location at the time of the accident**
- **What task was the witness(s) involved in & their location at the time of the incident**
- **Ask them follow-up questions to obtain as much factual information as possible**
- **To the best of the witnesses' knowledge, was there a previously known and/or reported problem or condition associated with the accident**
- **The Witness must Print, Sign, and Date the Statement**

II. AUTOMOBILE ACCIDENT INVESTIGATION PROCEDURES

1. Stop at once and protect personnel and property from further injury or damage

2. Call 911 to report the emergency
3. Care for the injured by obtaining competent first aid
4. Get witness information if available.
5. Do not admit fault or make statements to anybody other than the police, F.H. PASCHEN management personnel, or an F.H. PASCHEN insurance representative about the accident.
6. Be cooperative with all police and fire personnel

Photographs (*Take too many pictures, instead of too few!*)

- Sufficient photographs should be taken as soon as possible since conditions often change rapidly.
- Take photographs from all angles showing any contributing factors to the accident. (road conditions, traffic signals, lane markers, skid marks, tire marks)
- Photograph the damaged vehicles including photographs of:
 1. License plates of each vehicle
 2. Trailer numbers & company name
 3. Indications of prior damage to the vehicle

III. Reporting Accidents & Near Accidents

In order to ensure the proper insurance carriers and local authorities are put on notice the following individuals should be notified of all serious injuries and/or accidents.

Thomas Schutt (847) 652-3378, James Habschmidt (773) 255-8098 and Paul Wojcieszak (773) 617-4230

In the event of a serious accident in which an employee dies or an employee requires hospitalization the accident must be reported to the nearest Area Director of the Occupational Safety and Health Administration within 8 hours for a fatality or 24 hours for a hospitalization.

Project personnel will notify:

- Owners designated representatives
- Their immediate supervisors

IV. REQUIRED REPORTS

In all accidents involving injury to F.H. Paschen employees please utilize the **Supervisor's Report of FHP Employee Injury form found on page 46.**

- Please write slowly and legibly
- Be specific about the location of the incident (pictures are best)

Reports Concerning

- **Subcontractor employee injury claims;**
- **Civilian injury or property claims;**
- **Property damage claims caused by a subcontractors work or F.H. PASCHEN's work;**
- **Theft;**
- **Any occurrence resulting from a weather related event;**
- **Damage to equipment owned or rented by F.H. Paschen; and**
- **Incidents near the jobsite, such as a car accident**

These reports should be submitted on the F.H. Paschen Incident Reporting Form on page 48.

If there are multiple bodily injury claims, please fill out a separate form for each bodily injury.

V. O.S.H.A. Investigations

Risk Management should be notified prior to allowing O.S.H.A. inspectors on the work site. Thomas Schutt (847) 652-3378 or James Habschmidt (773) 255-8098 or Paul Wojcieszak (773) 617-4230.



F.H. PASCHEN
SUPERVISORS REPORT OF FHP EMPLOYEE INJURY

Location of Accident & FHP Job # _____
Zip Code of Accident area _____
Date of Accident: _____
Time of Accident: _____
County Accident Occurred in _____
Date employer notified of Injury _____
Time Injured employee started work _____

When possible, take written statements from each witness and the INJURED employee. Have them sign and date each statement and **TAKE PHOTOS OF THE WORK/ACCIDENT AREA** and retain any tools, material, or equipment, including ladders and scaffold parts which may have contributed to the incident occurring. A qualified person must inspect for defects.

Description of the accident and body part(s) injured:

What activity was being performed prior to and at the time of the accident?

What materials, equipment, or conditions were involved?

Corrective Action: WHAT CORRECTIVE ACTION WAS TAKEN, IF ANY?

Claimant information

- Social Security number: _____
- Name of the injured party; _____
- Home phone _____
- Work phone 773 444 3474

- Address w/ zip code _____
- Male _____ Female _____
- Date of Birth _____
- Marital Status _____
- Dependents _____

Employment information

- Occupation _____
- Full time or temporary _____
- Date of hire _____
- Supervisor name & Title _____
- Supervisor Cell Phone number; _____
- Was this a lost time accident **NO YES**
- Wage? \$ _____ per hour

Injury information

- Were Authorities Contacted (police, fire, ambulance? **NO YES**
- Were safeguards provided? **NO YES** Were they in use? **NO YES**
- Minor on-site remedies? **NO YES**
- Minor clinic or hospital? **NO YES**
- Emergency evaluation? **NO YES**
- **Name and address and phone of treating hospital/clinic. Attach Release from doctor if possible**

Witness information

- Name, Address, and Phone # of witness(s) to the incident

Additional Misc. Information:

Report by _____ Date of Report _____
 Complete and Email to Thomas Schutt (Email tschutt@fhpaschen.com)



F.H. Paschen Incident Reporting Form

- BODILY INJURY (*Non-FHP Employee Only*)
 OTHER INCIDENT/UNUSUAL OCCURRENCE

- PROPERTY DAMAGE
 NEAR MISS INCIDENT

The Superintendent or Project Manager must complete this form and submit it within 24 hours. Be as specific as possible and include drawings, photos, or additional narrative, as needed. This form must be sent to Thomas Schutt (tschutt@fhpaschen.com)

INCIDENT DETAILS (MUST BE COMPLETED FOR ALL INCIDENT TYPES) Including Unusual Occurrence

Date	Time of incident:	FHP Job #	Job Name & Address:

Description of accident, what activity was being performed prior to and at the time of incident, and all facts of the accident. Investigate & talk to others that witnessed or have knowledge of the incident. Describe who was involved, when and where the incident happened. Do not assume. If the POLICE were called, list the police report # & name of police agency.

Witnesses (name and contact information) (Attach Witness Statement)

List all Subcontractors working in the area and/or list the outside party involved in incident. Include contact information if it's an outside party.

BODILY INJURY SECTION

Insured Party's Classification: Subcontractor's employee Owner's Rep's employee Civilian/Member of the Public

If no injury, check box and skip this section. <input type="checkbox"/> No injury	Injured party's Name:
	Injured party's employer:
	Injured party contact information:

Injury description and what specific body parts were injured:	
Sought Medical Treatment? <input type="checkbox"/> Yes <input type="checkbox"/> No	
PROPERTY DAMAGE	
If no property damage occurred, check box and skip this section. <input type="checkbox"/> No Property Damage	
Type <input type="checkbox"/> Damage from Sub's Operation <input type="checkbox"/> Damage from Public <input type="checkbox"/> Weather Related <input type="checkbox"/> Other	
Who is responsible for property damage?	Owner, Address & Phone # of where Property Damage Occurred
Description of what was damaged; Include Pictures	
If damaged property is the owner's property, is the damage to Pre-existing Property or to Property that is Part of the Contract? Please circle one of the Below	
Pre-existing Property	Property being installed
Approximate Value of Damage	
Was anyone injured or exposed? <input type="checkbox"/> Yes <input type="checkbox"/> No (if yes, please complete bodily injury section above)	
NEAR MISS INCIDENT	
Describe what happened including what activity was being performed prior to and at the time of incident:	
WHAT CORRECTIVE ACTION WAS TAKEN, IF ANY?	
List action(s) that were taken to prevent a re-occurrence.	
REPORTING INFORMATION	
Name of Person Filling out Report	Phone Number

If the incident is a result of FHP or a Sub's operations, please attach the JHA for that day and the QC Initial meeting.

Witness Statement

PLEASE WRITE SLOWLY AND LEGIBLY

Date: _____

Statement Time: _____

The purpose of this interview is to attempt to determine the facts and circumstances surrounding an accident which occurred at or about:

(Date & Time): _____ at _____

I proceed to state as follows: (in witness handwriting)

I have read the foregoing statement consisting of _____ pages, which I have initialed and signed, and I state that it is true and correct to the best of my knowledge and belief.

Witness name (Print)	Witness Signature	Phone Number
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Interviewer’s Name (Print)	Interviewer’s Signature	Phone Number
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Appendix C

F.H. Paschen, S.N. Nielsen & Associates LLC

Respiratory Program

In any workplace where respirators are necessary to protect the employee's health from harmful dusts, fogs, fumes, mists, gases, smokes, sprays, or vapors, or where respirators are required by the employer, or when the employee voluntarily uses a tight fitting respirator, the employer shall establish and implement a written respiratory protection program. The program shall be updated as necessary to reflect those changes in the workplace conditions that affect respirator use. Subcontractors will be responsible to administer their own Respiratory Protection Program if their employees are exposed to such hazards that would require protection. This section will outline general requirements that F.H. Paschen, S.N. Nielsen & Associates LLC (F.H. Paschen) will follow if the need arises for respiratory protection.

Where respirator use is not required, F.H. Paschen may provide respirators at the request of the employees or permit employees to use their own respirators, if F.H. Paschen determines that such respirator use will not in itself create a hazard.

F.H. Paschen will ensure that any employee using a tight-fitting respirator voluntarily is medically able to use that respirator, and that the respirator is clean, stored and maintained so that its use does not present a health hazard to the user and complies with this program. **EXCEPTION: F.H. Paschen is not required to include in a written respiratory protection program those employees whose only use of respirators involve the voluntary use of filtering facepieces (dust masks).**

Voluntary Use:

The basic advisory information on respirators, as presented below, shall be provided in any written or oral format, to employees who wear respirators when such use is not required by this section or by the F.H. Paschen.

If your employer provides respirators for your voluntary use, or if you provide your own respirator, you need to take certain precautions to be sure that the respirator itself does not present a hazard.

You should do the following:

1. Read and heed all instructions provided by the manufacturer on use, maintenance, cleaning and care, and warnings regarding the respirators limitations.
2. Choose respirators certified for use to protect against the contaminant of concern. NIOSH, the National Institute for Occupational Safety and Health of the U.S. Department of Health and Human Services, certifies respirators. A label or statement of certification should appear on the respirator or respirator packaging. It will tell you what the respirator is designed for and how much it will protect you.
3. Do not wear your respirator into atmospheres containing contaminants for which your respirator is not designated to protect against. For example, a respirator designed to filter dust particles will not protect you against gases, vapors or very small solid particles of fumes or smoke.
4. Keep track of your respirator so that you do not mistakenly use someone else's respirator

In order to assure that our employees are provided with the proper respiratory protection, it is necessary that we evaluate the respiratory hazards(s), on our work sites and provide them with the proper respirators to control these exposures.

Verify there are no feasible alternatives to respirators such as:

- Eliminate the contaminants or substitute them with less toxic material.
- Feasible engineering controls must be used before respirators.
- Use of administrative controls (reducing the time an employee is exposed to a toxic material)

If feasible engineering controls do not sufficiently reduce the hazard, a respirator may be required. The following shall be conducted:

- Select the proper respirator for the task(s)
- Employee shall have a current Annual Medical Evaluation & Annual Fit Test
- Employee shall receive information on the following:
 - Procedures for proper use of respirators in routine and reasonably foreseeable emergency situations and the proper wearing, removing and limitations of the respirator
 - Procedures and schedules for cleaning, disinfecting, storing, inspecting, repairing, discarding, and otherwise maintaining respirators including checking the seals of the respirator.
 - The capabilities and limitations of the respirator
 -
 - Procedures to ensure adequate air quality, quantity, and flow of breathing air for atmosphere-supplying respirators;
 - Recognition of the medical signs and symptoms that may limit or prevent the employees effective use of the respirator
 -
 - Training of employees in the respiratory hazards to which they are potentially exposed during routine and emergency situations
 - Other information if applicable to the task being performed with the use of a respirator, which may include use of a respirator from the protection of hazards related to Silica exposure. Information can be found in the Silica Exposure plan.
- Evaluate the use of the respirator, the hazard and if it is being used and worn properly, which will determine if the program needs to be updated or changed.

An employee will be trained before he/she uses a respirator unless the employee completed acceptable training in the last 12 months. Training is required on an annual basis and when workplace conditions change, new respirators are being used, or when inadequacies in the employee's knowledge or use of respirators require additional training.

Program Evaluation:

- Conduct regular workplace evaluations for respiratory hazards. These evaluations will determine if the proper respirator is being used and worn properly, and will determine if the program needs to be updated or changed.
- Obtain employee's active involvement in reviewing and updating the respiratory program.

Employee involvement must determine if respirators are:

- Interfering with effective workplace performance
 - Properly fitted
 - Correctly selected for the hazards the employee encountered
 - Being worn properly and used when necessary
 - Being Properly maintained
- Make program adjustments when problems are identified during the assessment process

Recordkeeping:

To facilitate employee involvement in the respirator program, assist the employer in auditing the adequacy of the program, and to provide a record for compliance determinations by OSHA, the following records will be kept:

- **Employees' latest fit-testing results including:**
 - **The name or identification of the employee tested**

- **Type of fit test performed**
- **Specific make, model, style, and size of respirator tested**
- **Date of Test**
- **The pass/fail results for QLFTs or the fit factor and strip chart recording or other recording of the test results for QNFTs.**
- **Confirmation on proper use and care of the respirator**
- **Medical Evaluations and recommendations from our medical provider**

Definitions:

The following definitions are important terms used in the respiratory protection standard:

Air-purifying respirator- a respirator with an air-purifying filter, cartridge, or canister that removes specific air contaminants by passing ambient air through the air-purifying element.

Assigned protection factor (APF)- the workplace level of respiratory protection that a respirator or class of respirators is expected to provide to employees when the employer implements a continuing, effective respiratory protection program as specified by this section.

Atmosphere-supplying respirator- a respirator that supplies the respirator user with breathing air from a source independent of the ambient atmosphere, and includes supplied-air respirators (SARs) and self-contained breathing apparatus (SCBA) units.

Canister or cartridge- a container w/ a filter, sorbent, or catalyst, or combination of these items, which removes specific contaminants from the air passed through the container.

Demand respirator- an atmosphere-supplying respirator that admits breathing air to the face piece only when a negative pressure is created inside the face piece by inhalation.

Emergency situation- any occurrence such as, but not limited to, equipment failure, rupture of containers, or failure of control equipment that may or does result in an uncontrolled significant release of an airborne contaminant.

Employee exposure- exposure to a concentration of an airborne contaminant that would occur if the employee were not using respiratory protection..

Filter or air purifying element- a component used in respirators to remove solid or liquid aerosols from the inspired air.

Filtering face piece (dust mask)- a negative pressure particulate respirator with a filter as an integral part of the face piece or with the entire face piece composed of the filtering medium.

Fit factor- a quantitative estimate of the fit of a particular respirator to a specific individual, and typically estimates the ratio of the concentration of a substance in ambient air to its concentration inside the respirator when worn.

Fit test- the use of a protocol to qualitatively or quantitatively evaluate the fit of a respirator on an individual. (Qualitative fit test QLFT and Quantitative fit test QNFT)

High efficiency particulate air (HEPA) filter- a filter that is at least 99.97% efficient in removing monodisperse particles of 0.3 micrometers in diameter. The equivalent NIOSH 42 CFR 84 particulate filters are the N100, R100, and P100 filters.

Immediately dangerous to life or health (IDLH)- an atmosphere that poses an immediate threat to life, would cause irreversible adverse health effects, or would impair an individual's ability to escape from a dangerous atmosphere.

Maximum use concentration (MUC)- the maximum atmospheric concentration of a hazardous substance from which an employee can be expected to be protected when wearing a respirator, and is determined by the assigned protection factor of the respirator or class of respirators and the exposure limit of the hazardous substance. The MUC can be determined mathematically by multiplying the assigned protection factor specified for a respirator by the required OSHA permissible exposure limit, short-term exposure limit, or ceiling limit. When no OSHA exposure limit is available for a hazardous substance, an employer must determine an MUC on the basis of relevant available information and informed professional judgment.

Negative pressure respirator (tight fitting)- a respirator in which the air pressure inside the face piece is negative during inhalation with respect to the ambient air pressure outside the respirator.

Oxygen deficient atmosphere- an atmosphere w/ oxygen content below 19.5%.

Physician or other licensed health care professional (PLHCP)-an individual whose legally permitted scope or practice (i.e., license, registration, or certification) allows him or her to independently provide, or be delegated the responsibility to provide, some or all of the health care services required by subsection (e).

Powered air-purifying respirator (PAPR)- an air-purifying respirator that uses a blower to force the ambient air through air-purifying elements to the inlet covering.

Qualitative fit test (QLFT)- a pass/fail fit test to assess the adequacy of respirator fit that relies on the individual's response.

Quantitative fit test (QNFT)- an assessment of the adequacy of respirator fit by numerically measuring the amount of leakage into the respirator.

Respiratory inlet covering- that portion of a respirator that forms the protective barrier between the user's respiratory tract and an air-purifying device or breathing air source, or both. It may be a face piece, helmet, hood, suit, or a mouthpiece respirator with nose clamp.

Supplied-air respirator (SAR) or airline respirator- an atmosphere-supplying respirator for which the source of breathing air is not designed to be carried by the user.

Respirator Selection

After identifying & evaluating the respiratory hazards, respirators will be chosen for use by F.H. Paschen and the employees. NIOSH-certified respirators will be chosen and used according to the limitations on the NIOSH certification. **To select the correct respirator, if air monitoring is required, the results of the air monitoring survey will be compared with the permissible exposure limits (PELs) set by OSHA.** The PEL's for specific respiratory hazards will be referred to in 29 CFR 1926 OSHA. The American Conference of Governmental Industrial Hygienists and the NIOSH recommended exposure limits may also be used as references.

- F.H. Paschen will offer a secondary respirator if a certain model is uncomfortable or cumbersome to use.
- Respirators will not impair the workers vision, hearing, or interfere with communication to the point of being a hazard to the employee.
- If a workers medical condition, as determined by a physician or other licensed health care professional, prohibits the use of a negative pressure respirator, F.H. Paschen will provide the worker with a PAPR or other appropriate respirator.

Respirators for atmospheres that are not IDLH:

The employer shall provide a respirator that is adequate to protect the health of the employee and ensure compliance with all other OSHA statutory and regulatory requirements, under routine and reasonably foreseeable emergency situations. When using a combination respirator (e.g., airline respirators with an air-purifying filter), employers must ensure that the assigned protection factor is appropriate to the mode of operation in which the respirator is being used.

Respirators have different limits on how effective they are in protecting against air contaminants. The assigned protection factor (APF) can be found in publications by NIOSH and ANSI. OSHA also has enforceable APF's.

Maximum Use Concentration (MUC)

The employer must select a respirator for employee use that maintains the employee's exposure to the hazardous substance, when measured outside the respirator, at or below the MUC. The respirator selected shall be appropriate for the chemical state and physical form of the contaminant.

For protection against gases and vapors, the employer shall provide:

- **An atmosphere-supplying respirator or an air-purifying respirator-**provided that the respirator is equipped with an end-of-service-life indicator (ESLI) certified by NIOSH for the contaminant or If

there is no ESLI appropriate for conditions in the employer's workplace, the employer shall ensure that canisters and cartridges are changed before the end of their service life. The employer shall describe in the respirator program the information and data relied upon and the basis for the canister and cartridge change schedule and the basis for reliance on the data

For protection against particulates, F.H. Paschen shall provide:

- **An atmosphere-supplying respirator or an air-purifying respirator-** equipped with a filter certified by NIOSH as a high efficiency particulate air (HEPA) filter, or an air-purifying respirator equipped with a filter certified for particulates by NIOSH. For contaminants consisting primarily of particles with mass median aerodynamic diameters (MMAD) of at least 2 micrometers, an air-purifying respirator equipped with any filter certified for particulates by NIOSH

The service life of a cartridge or canister depends on many factors, including environmental conditions, breathing rate, cartridge capacity, the amount of contaminant in the air, and how many hours the cartridge is used each day. Air purifying respirators that protect against gases and vapors will have an end of service life indicator or an enforced cartridge or canister change schedule. The cartridge or canister change schedule will be based upon the results of exposure monitoring surveys relevant to the specific workplace, the respirators manufacturer's cartridge capacity data, or other reliable data.

Medical Evaluations

All employees who are part of the Respiratory Protection Program shall be submitted to a confidential medical evaluation to determine the employee's ability to wear a respirator. This medical evaluation will be performed before the employee is fit tested or required to use the respirator in the workplace for the first time. A medical questionnaire will be conducted in accordance to the information required under 1910.134 Appendix C, OSHA Respirator Medical Evaluation Questionnaire. The employee will have the opportunity to discuss the results with the PLHCP. The respirator user's medical status will be reviewed annually, and additional medical evaluations will be conducted if:

- **An employee has medical signs affecting his ability to use a respirator**
- **The PLHCP or supervisor recommends a re-evaluation.**
- **Information from the respirator program or observations from fit testing indicates a need**
- **Changes in the workplace conditions substantially increase the physiological burden on an employee**

The employee may go to Concentra for their medical evaluation, or a medical evaluation can be set up through the 3M website. Please contact risk management with the employee's name in order for the employee to have their medical evaluation through the 3M website.

The following information may need to be provided to the PLHCP before the PLHCP makes a recommendation concerning an employee's ability to use a respirator:

- **The type and weight of the respirator**
- **Duration and frequency of the respirator's use**
- **Expected physical work effort**
- **Additional PPE to be worn**
- **Temperature and humidity extremes that may be encountered**

Medical determination- In determining the employee's ability to use a respirator, F.H. Paschen shall obtain a written recommendation regarding the employee's ability to use the respirator from the PLHCP. The recommendation shall at a minimum provide the following information:

- **Any limitations on respirator use related to the medical condition of the employee, or relating to the workplace conditions in which the respirator will be used, including whether or not the employee is medically able to use the respirator**
- **The need, if any, for follow-up medical evaluations**
- **A statement that the PLHCP has provided the employee with a copy of the PLHCP's written recommendation.**

Fit Testing

Employees in the Respiratory Protection Program must successfully complete a fit test prior to being allowed to use a respirator in the workplace. The fit test will be performed with the same make, model, style and same size of respirator that he/she shall use. The fit test will be qualitative, and will rely on the person's response to a test agent. If a specific respirator model or size cannot be found or an employee cannot be properly fit tested, F.H. Paschen will provide the employee with a PAPR or an atmosphere-supplying respirator that has a hood, helmet, or a loose fitting face-piece that provides the employee with adequate protection.

Fit Testing will be conducted:

- Before the initial use of the respirator
- When an employee uses a different respirator face-piece
- On an annual basis
- When an employer discovers physical changes in the employee

Use of Respirators

When the respirator is properly distributed, F.H. Paschen will insure the respirator is used properly in the workplace. F.H. Paschen will immediately stop the work of an employee using a respirator and inspect the respirator if the following conditions are discovered:

- The person wearing the respirator fails to properly perform seal checks.
- If the respirator user is using PPE or other equipment that interferes with the face to face piece seal
- The respirator was not properly repaired and the defective parts were not replaced
- Modifications were made to the respirator or non-approved replacement parts are being used

Employees shall not be allowed to wear respirators when the following conditions exist:

1. Facial hair that comes between the sealing surface of the respirator face piece and the face or that interferes with valve function.
2. Any condition that may interfere with the face to face piece seal or valve function.
3. If any employee wears corrective glasses, goggles, or any other personal protective equipment, the PPE will be worn so it does not interfere with the seal of the face piece, creating a void in the seal.

When an employee wears a tight-fitting respirator, the employee will perform a positive and negative pressure seal check. The procedures found under the manufacturer's procedures will be utilized.

Maintenance and Care of Respirators

Each respirator user will be provided a clean, sanitary and in good working order respirator. The procedures for cleaning and disinfecting respirators should be conducted in accordance to the manufacturer's procedures which should include:

- Cleaning and Disinfecting procedures
- Proper storage
- How to inspect for defects before each use and while cleaning the respirator
- Repair Methods

Respirators will be cleaned and disinfected:

- As often as necessary to maintain a sanitary condition when exclusively using a respirator
- Before use by a different person if sharing a respirator
- After each use when using a respirator for emergency purposes
- After each use when using a respirator for training and fit testing

Proper Storage:

- All respirators shall be stored to protect them from damage, contamination, dust, sunlight, extreme temperatures, excessive moisture, and damaging chemicals, and they shall be packed or stored to prevent deformation of the face piece and exhalation valve.
- Emergency Respirators shall be:

- Kept accessible to the work area
- Stored in compartments or in covers that are clearly marked as containing emergency respirators
- Stored in accordance with any applicable manufacturer instructions.

Inspection:

F.H. Paschen will ensure the respirators are inspected in accordance to manufacturer recommendations which may include inspections during the following scenarios

- All respirators used in routine situations shall be inspected before each use and during cleaning.
- All respirators maintained for use in emergency situations shall be inspected at least monthly and in accordance with the manufacturer's recommendations, and shall be checked for proper function before and after each use.
- Emergency escape-only respirators shall be inspected before being carried into the workplace for use

The respirator inspection may include:

- A check of respirator function, tightness of connections, and the condition of the various parts including, but not limited to, the face piece, head straps, valves, connecting tube, and cartridges, canisters or filters
- A check of elastomeric parts for pliability and signs of deterioration

Repairs:

- Repairs shall be made according to the manufacturer's recommendations and specifications for the type and extent of repairs to be performed
- F.H. Paschen shall ensure that respirators that fail an inspection or are otherwise found to be defective are removed from service, and are discarded or repaired or adjusted in accordance with the following procedures
- Repairs or adjustments to respirators are to be made only by persons appropriately trained to perform such operations and shall use only the respirator manufacturer's NIOSH-approved parts designed for the respirator
- Reducing and admission valves, regulators, and alarms shall be adjusted or repaired only by the manufacturer or a technician trained by the manufacturer



Appendix D **Confined Space**

1. F.H. Paschen's Project Supervisor shall evaluate the work place to determine if any spaces are permit-required confined workspaces. A confined space will be considered entered when any part of the body breaks the plane of the opening.
2. If the work place contains permit-required confined spaces, the employer shall inform exposed employees by posting danger signs or equally effective means, of the existences and location of spaces, and the dangers posed by the permit spaces.

Example: Danger, Permit-Required Confined Space, Do Not Enter.

3. When an employer (host employer) arranges to have employees of F.H. Paschen (contractor) perform work that involves confined space entry, the host employer shall:
 - A. Inform the contractor that the workplace contains permit-required confined spaces and that entry is allowed only through compliance with a confined space entry program.
 - B. Appraise the contractor of the elements, identified hazards, and previous experience with the space that make it a confined space.
 - C. Inform the contractor of any implemented precautions and procedures used by the host employer to protect his employees in or near the space where contractor employees will be working.
 - D. Coordinate entry operations with the contractor when both host and contractor personnel will be working in or near permit-required confined spaces.
 - E. Debrief the contractor at the conclusion of the entry operations regarding permit procedures followed, and hazards confronted, or created.

In addition to complying with the permit-required confined space entry requirements that apply, F.H. Paschen will inform all subcontractors of the known hazards associated with the permit-required confined space. Site specific procedures will be created for permit confined space being accessed by F.H. Paschen employees.

PERMIT- REQUIRED CONFINED SPACE:

Means a place that has one or more of the following:

1. Contains or has a potential to contain a hazardous atmosphere
2. Contains a material that has the potential to engulf an entrant
3. Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section
4. Contains any other recognized serious safety or health hazard
5. Is Not Designed For Continuous Employee Occupancy



Appendix E
F.H PASCHEN, S.N. NIELSEN & ASSOCIATES LLC'S
Asbestos and What to Do

ASBESTOS and/or PACM
(presumed asbestos containing material)

When Asbestos materials are suspected to exist in or near work areas the following steps must be taken.

1. Remove employees working in the area or immediately adjacent to the area of suspected material.
2. NOTIFY THE SENIOR PROJECT MANAGER and or THOMAS SCHUTT (847-652-3378). If THOMAS is not available contact PAUL WOJCIESZAK (773-617-4230)
3. Secure & identify the area to protect people outside of the area from being exposed
4. Immediately issue written notification to each subcontractor with regard to the ASBESTOS and/or PACM. The notification shall contain:
 - a. The existence and location of ASBESTOS and/or PACM.
 - b. The measures taken to ensure that employees of all subcontractors on site are not exposed to ASBESTOS.
 - c. Notice shall direct each subcontractor to inform their onsite employees and subcontractors regarding the presence of ASBESTOS and/or PACM, and the steps to be taken to prevent exposure.
5. Notify all F.H. PASCHEN on site employees of the same.

Finally, written notification in accordance with contract requirements shall be sent to the owner regarding the ASBESTOS and/or PACM. The request shall notify the owner of the location and type of material. Request direction on how to proceed with the issue.

Appendix F
F.H. PASCHEN, S.N. NIELSEN & ASSOCIATES LLC'S
Hearing Loss Prevention Plan

- F.H. Paschen will make hearing protectors available to all employees exposed to an 8-hour time-weighted average of 85 decibels or greater at no cost to the employees. Hearing protectors will be replaced as necessary.
- F.H. Paschen will ensure that hearing protectors are worn by all employees:
 - Who are required by Section 5096(b) to wear personal protective equipment; or
 - Who are exposed to an 8-hour time-weighted average of 85 decibels or greater, and who:
 - Are required by Section 5097(c)(9) to wear hearing protectors because baseline audiograms have not yet been established; or
 - Have experienced a standard threshold shift.
- Employees will be given the opportunity to select their hearing protectors from a variety of suitable hearing protectors provided by F.H. PASCHEN.
- F.H. Paschen will provide training in the use and care of all hearing protectors provided to employees.
- F.H. Paschen will ensure proper initial fitting and supervise the correct use of all hearing protectors.

Hearing Protector Attenuation.

- F.H. Paschen will evaluate hearing protector attenuation for the specific noise environments in which the protector will be used. F.H. Paschen shall use one of the following methods:
 - The Noise Reduction Rating (NRR) developed by the Environmental Protection Agency (EPA)
 - One of the three methods developed by the National Institute for Occupational Safety and Health (NIOSH)
- Hearing protectors will attenuate employee exposure at least to an 8-hour time-weighted average of 85 decibels.
- For employees who have experienced a standard threshold shift, hearing protectors will attenuate employee exposures to an 8-hour time-weighted average of 85 decibels or below.
- The adequacy of hearing protector attenuation will be reevaluated whenever employee noise exposures increase to the extent that the hearing protectors provided may no longer provide adequate attenuation. F.H. Paschen will provide more effective hearing protectors where necessary.



Appendix G

F.H. PASCHEN, S.N. NIELSEN & ASSOCIATES LLC'S Bloodborne Pathogen Plan

INTRODUCTION:

This procedure is written to comply with the Occupational Safety and Health Administration's Standard for Occupational Exposure to Bloodborne Pathogens.

F.H. Paschen is a construction company with minimal exposure to employees concerning Bloodborne Pathogens. The company is required to provide first-aid supplies and the access to a hospital, clinic, infirmary or a physician within a reasonable time.

Normally, projects are within a fifteen-minute response time of professional medical personnel, ambulance service, hospital or a clinic. No injury, which is more extensive than first aid, (band-aid type injuries), is treated at the jobsite. If an injury is more extensive than first aid, professional assistance is required. The injured person is attended to in the respect of being kept from additional danger, made comfortable and given whatever assistance on-site personnel can provide. There is a potential that an incurred injury on a construction site may result in bleeding, thus the potential of the bloodborne pathogen hazard exists. Those that may experience this exposure would be considered as "Good Samaritans".

Therefore, F.H. Paschen's intentions are to provide first-aid supplies and reasonable access to professional medical facilities on each of its construction sites. All personnel are considered to have incidental exposures to Bloodborne Pathogens.

DEFINITIONS:

Blood: Human blood, human blood components, and products made from human blood.

Bloodborne Pathogens: Pathogenic microorganisms that are present in human blood and can cause disease in humans. These pathogens include, but are not limited to, Hepatitis B Virus (HBV) and human immunodeficiency virus (HIV).

Contaminated: The presence or the reasonably anticipated presence of blood or other potentially infectious materials on an item or surface.

Decontamination: The use of physical or chemical means to remove, inactivate or destroy bloodborne pathogens on a surface or item to the point where they are no longer capable of transmitting infectious particles and the surface is rendered safe for handling, use, or disposal.

Engineering Controls: Controls that isolate or remove the bloodborne pathogens hazard from the workplace.

Exposure Incident: A specific eye, mouth, or other mucous membrane, non-intact skin, or potential contact with blood or other potentially infectious materials that results from the performance of an employee's duties.

Hand Washing Facilities: A facility providing an adequate supply of running potable water, soap and single use of towels or hot air drying machines. (Potable water: Water, which is satisfactory for drinking, culinary and domestic purposes and meets with the basic sanitary requirements.)

Occupational Exposure: Reasonably anticipated skin, eye, mucous membrane, or parental contact with blood or other potentially infectious materials that may result from the performance of an employee's duties.

Personal Protective Equipment: Specialized clothing or equipment worn by an employee for protection against a hazard.

Sterilize: The use of a physical or chemical procedure to destroy all microbial life, including highly resistant bacterial endospore. (The use of alcohol, soap and water, an approved antiseptic liquid, boiling water, heating to high temperature, burning, etc.)

Universal Precautions: An approach to infection control. According to the concept of Universal Precautions, all human blood and certain human body fluids are treated as if known to be infectious for HIV, HBV, and other bloodborne pathogens.

Work Practice Controls: Controls that reduce the likelihood of exposure by altering the manner in which a task is performed.

EXPOSURE DETERMINATION:

A. Job Classification:

All employees working on a construction site

B. Tasks:

General and specific construction activities

C. Exposures:

General and specific construction activities

METHODS OF COMPLIANCE:

A. Universal Precautions shall be observed to prevent contact with blood or other potentially infectious materials. All body fluids shall be considered potentially infectious materials.

B. Internal access (actual ingredients) to the construction site first-aid kit shall be restricted to the average employee. Only the designated First-Aid Person, Project Superintendent, Assistant Project Superintendent or Project Secretary shall have access to the ingredients of the first-aid kit. This precaution is to minimize the potential of first-aid supplies becoming contaminated with an injured person's body fluids. Any injured employee will report to the project office trailer and be provided with the first-aid materials, i.e.

cleansing solution, band-aid, aspirin, etc., for minor injuries. In the event an injured person requires assistance for treatment of the minor injury, the person rendering aid shall wear two pairs of rubber medical-type gloves. (Rubber medical-type gloves are a required item of inventory of the first-aid kit.) Upon completing treatment of any injury, both the person providing assistance/treatment and the injured person will wash thoroughly with soap and water to remove all traces of blood or other body fluids from their skin. If clothing is contaminated with blood or body fluids, it shall be removed prior to continuing work assignments to minimize the potential of additional distribution and contamination of other persons, materials, tools, etc. It shall be at the discretion and responsibility of the individual whose clothing was/is contaminated to either clean or dispose of the clothing, as they deem appropriate.

- C. Should a serious injury be incurred by an employee on the job site which results in extensive bleeding, and another employee comes to the injured' s assistance (Good Samaritan) and is contaminated with the injured' s blood, this employee will also be offered the vaccination free of charge.
- D. Any tool, material, or equipment known to have been contaminated with human blood or other body fluids shall be cleaned/decontaminated prior to being put back into service. Any soil, material or other items, which cannot be cleaned or decontaminated, shall be disposed of in an appropriately approved manner.

POST-EXPOSURE and FOLLOW-UP

Should it become known to the project supervisory personnel that a person who had received first-aid medical treatment on the jobsite was confirmed to be infected with HIV or HBV, then the person(s) involved in that incident shall be provided the prescribed follow-up treatment.

- A. F.H. Paschen shall make immediately available to the exposed employee a confidential medical evaluation and follow-up, including at least the following:
 - 1. Documentation of the route(s) of exposure, and circumstances under which the exposure occurred.
 - 2. Identification of the source individual.
 - 3. Source individual's blood to be tested and the results made available to the exposed employee. (Refer to Federal, State and Local Laws regarding obtaining consent and confidentiality for testing of blood.
 - 4. Exposed employee's blood to be tested for HBV and HIV serological status.



Appendix H
F.H. PASCHEN, S.N. NIELSEN & ASSOCIATES LLC'S
Job Hazard Analysis Template

The following form may be used to identify hazards in the field. A job hazard analysis is a technique that focuses on job tasks to identify hazards before they occur. It focuses on the relationship between the worker, the task, the tools, and the work environment. Ideally, after you identify hazards, you will take steps to eliminate or reduce them to an acceptable risk level.



JOB HAZARD ANALYSIS

Company/Contractor Name: _____

Date: _____

Project Name, Number and/or Location: _____

If applicable list Sub Contractor (s) _____

Describe the task (s) to be conducted: _____

List major steps, potential hazards and control measures to be implemented: (Please Print)

If any employee(s) are exposed to Silica in today's activities, address each task individually and use applicable preventive control(s)

Activity/Operation	Hazards	Preventive Controls
Working at a Height with a fall greater than 6 FEET while performing ANY TASK	Fall hazard	All employees will utilize proper fall protection PPE if fall protection is not in place; Ask your supervisor how to use the PPE correctly if their are questions

List additional equipment, tools and/or PPE needed to perform the task safely: _____

Please check the box under "YES or SI" next to your name if you have been injured at work or witnessed an injury at work in the last 24 hours.
 If you have not been injured at work or witnessed an injury in the last 24 hours, please check the box under the word "NO" next to your name.
 Please speak with your supervisor immediately if you have been injured or witnessed an injury and you have NOT reported the injury
All employees understand how to use Fall Protection PPE, including proper anchorage points when tying off, in order to eliminate a fall hazard
 Crew Members (Please Print Names)

	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
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	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No

 Competent Person (Print Name)

 Prepared by: (Print Name)



Appendix I

F.H. PASCHEN, S.N. NIELSEN & ASSOCIATES LLC'S Crane Safety

The following information will pertain to all F.H. Paschen jobsites that use a crane for the completion of the project. The following information will be used as a guide to maintain a safe and hazard-free jobsite, while Cranes are being used to complete a task for the project.

The New Crane Standard covers all power operated equipment used in construction for hoisting equipment.

- **The Following Items are Covered:**
 - Crawler Cranes
 - Hydraulic Cranes
 - Boom trucks
 - Dedicated Pile Driving Cranes

Competent person- means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

Qualified person- means a person who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, successfully demonstrated the ability to solve/resolve problems relating to the subject matter, the work, or the project.

**PLEASE NOTE: BEFORE HOISTING A LOAD, READ THE CHECK LIST FOR
HOISTING AND COMPLETE THE DAILY CRANE SAFETY CHECKLIST. SEE
ITEM "A"**

1. DOCUMENTATION

The following section will serve as a checklist for documentation required to be on file at the jobsite if F.H. Paschen is utilizing a crane onsite.

- If a signal person is utilized, documentation for signal person must be kept at the site in which he/she is the signal person. All F.H. Paschen signal person documentation can be found on the **Intranet** website. The documentation must specify the type of signaling he/she is qualified for. **Training protocol and material is located within Item B.**
- If a subcontractor is signaling the crane, then F.H. Paschen field employees shall request a copy of the certification given to the signal person and a copy shall be kept onsite.
- All Pre-Task Meeting Minutes should be documented and filed onsite.
- The Daily and Monthly Inspections will be documented utilizing the F.H. Paschen inspection form found under the Crane Inspection Section of this program
- The name of the assembly/disassembly director shall be documented and kept onsite.
- The Signal chart must be posted on the equipment or posted in the vicinity of the hoisting operations
- F.H. Paschen Crane Safety Daily Checklist
- Chain Link Rigging Inspection Form
- Operator certification- evidence of certification by a qualified company.

- All employees training documentation, including Rigger Training, Signal Person Training, and competent person training.

2. TRAINING-

F.H. Paschen Personnel shall receive training in the following topics, if applicable.

- Rigger Training
- Signal person training
- Competent Person and Qualified persons training
- Crush/pinch points-(when an employee is working with equipment they must be trained to keep clear of holes and crush/pinch points)
- Tag-out
- Work around power lines-see applicable section below

3. SIGNALING

A signal person must be provided when:

- Point of operation or area at or near load placement isn't in full view of the operator
- The view in the direction of travel is obstructed
- Other Site-specific Concerns

See Appendix B for the protocol for issuing an F.H. Paschen Crane Signaler Sticker

4. POWERLINES OSHA STD 1926.1408

OSHA requirements for operations near power lines UP TO 350 KV are listed below. If the lines are above 350KV, please reference OSHA STD 1926.1409

Must meet one of the three options established for power lines:

4. Option one would be de-energizing & physically grounding the power lines
5. Option two would be maintaining a 20-foot distance
6. Option three is maintaining the distances specified in Table A.

UNDER ALL OPTIONS, THE FOLLOWING MUST OCCUR:

- A work zone must be established with flagging, ropes, barricades, etc, and work outside of the work zone would be prohibited. The work zone would have to be defined 360 degrees around the equipment up to the equipment's maximum working radius
- All power lines are assumed to be energized until confirmed by the utility company of being de-energized

Options 2 and 3:

- Pre-task meetings will determine where power lines are located and will identify what will be done to prevent encroachment
 - In these situations the employer would be required to do the following
 - Use non-conductive tag lines,
 - Erect & maintain warning lines, barricades, etc at 20-feet or the distances specified in Table A,
 - Implement any one of the following;
 - The use of a proximity alarm
 - Dedicated spotter,
 - The use of a device that will automatically warn the Operator when to stop
 - The use of a device that will automatically limits range of movement
 - Having an insulated link/device installed between the end of the load line & the load
- No equipment can operate underneath of power lines unless they are de-energized, except when:

- Erecting new electric transmission and distribution lines, as found under Subpart V of 1926
- If the equipment has a non-extensible boom, and it is more than 20 feet below the power line or more than the minimum clearance distance as found under Table A
- If the equipment has an articulating or extensible boom, then more than 20 feet below the power line when fully extended, or more than the minimum clearance distance as found under Table A

OPTION 3

- When option 3 is used the utility company must provide voltage information within two days

Requirements if work must occur closer than the distances specified in Table A

The standard prohibits working inside of the limits indicated in Table A unless:

- The employer demonstrates that is infeasible without breaching the distance under Table A
- After consultation with the utility company it was determined it was infeasible to de-energize or relocate the power lines
- The utility company or RPE (registered professional engineer) who is qualified for electrical power transmission determines a minimum clearance distance.

IF WORK IS DONE WITHIN 20 FEET OF LINES, PLEASE REFER TO OSHA STD 1926.1410

TRAINING

WORKERS MUST BE TRAINED IN THE FOLLOWING:

- What to do in the event of an accidental contact
- The importance of the Operator staying in the cab unless necessary to leave
- The danger of the area around the crane and the safest means of exiting the energized equipment
- Ensure the crew understands not to approach or touch the energized equipment
- Clearance distance from power line
- Limitations of an insulating device or proximity alarm
- The procedure to properly ground equipment
- If working as a spotter, then trained to perform as a spotter and knowledge of the OSHA Stds when working around lines

Table A – Minimum Clearance Distances	
Voltage (nominal, kV, alternating current)	Minimum clearance distance (feet)
up to 50	10
over 50 to 200	15
over 200 to 350	20
over 350 to 500	25
over 500 to 750	35
over 750 to 1000	45
over 1000	(as established by the power line owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution)

5. INSPECTIONS

Inspections will be done daily, weekly, or monthly to follow manufacturer's specifications

Daily inspections (Please see Item C) must include, at a minimum:

- Control Mechanisms
- Control & Drive Mechanisms for wear or contamination by water or lubricants
- Air, hydraulic and other pressurized lines
- Hydraulic system for proper fluid level
- Hooks and latches
- Wire rope for compliance with manufacturers specifications and/or 1926.1413(a)
- Electrical apparatus
- Tires
- Ground Conditions including a level position for the equipment
- Operator cab windows for cracks
- Safety devices; Anti-two block, Boom kicks, load moment indicators

Monthly inspections will be done in accordance to the minimum specifications of a daily inspection

Annual Inspections will be done in accordance to the minimum specifications of a daily inspection noted above. In addition, please refer to 1926.1412(f) for additional requirements for inspection by a qualified person

- Modified equipment- Equipment that has been modified or changed in a manner that may affect the safe operation of the crane must be inspected by a qualified person. 1926.1412 (a) & (b)
- Equipment that sits idle for 3 months or longer must be inspected by a qualified person & meet the requirements that are listed in the monthly inspection. 1926.1412(h)
- Post assembly by a qualified person
- When the manufacturer requires a more comprehensive inspection, 1926.1412(j)
- **Monthly and Annual inspections must be documented**

6. CRANES

- Only authorized personnel may operate cranes (conventional or hydraulic)
- Cranes shall not be operated with improperly rigged loads or loads beyond their rated capacities and limits. Rated load capacities, recommended operating speeds, and manufacturer's operating instructions shall be posted conspicuously at the operator's station.
- Crane operators shall sound their warning horn prior to swinging loads.
- Signal transmission must be tested and be thru a dedicated channel(unless multiple cranes or signal persons are used or a crane is operated near railroad tracks where other equipment or trains are on the track area)
- Accessible areas of cranes rotating superstructure and counterweight shall be barricaded.
- A crew member must alert the operator before moving to a location out of the operator's view. The operator will not move the equipment until he is informed of the crew member's new safe position.
- Employees shall never be under the boom or jib when pins are being removed
- When load is not being swung, employees are not allowed in the fall zone unless:
 - Engaged in hooking, unhooking, guiding
 - Engaged in initial attachment of the load to a structure
 - Operating a concrete hopper or bucket
 - Same applies when receiving the load

- An ABC multi-class dry chemical type fire extinguisher shall be located at the operator's station or in the crane cab at all times.
- Modifications or additions that affect the capacity or safe operation of the crane shall not be made without the manufacturer's written approval.
- All booms and jibs shall have positive stops to prevent their movement beyond 5 degrees of vertical. Cable type belly slings are not acceptable as boom or job stops.
- Cranes will be equipped with audible back-up alarms and/or strobes lights so employees in the area around the crane will be aware when the crane is moving.
- Riding the lifting line, ball, hook or suspended load of any crane is prohibited.
- Communication methods that will be used during the pick(s)
- Sling selection including how it has been determined that rigging equipment & hardware being used are of strong enough capacity so that the pick can be made safely.
- Hitch selection including how it was determined that the hitch selection (basket, vertical, hitch) will be the best option for the pick being made.
- Load control- Tag lines or other methods must be mentioned so it is known how the load will be controlled during the pick.
- Site-specific information- Any site-specific safety issue & safeguards that will be implemented to protect workers from these hazards. (Environmental conditions, power lines, etc.)

7. ASSEMBLY/DISASSEMBLY OSHA STD 1926.1403

- Work will be directed and supervised at all times by a Competent and Qualified Assembly/Disassembly person; or by a competent person who is assisted by one or more qualified persons (A/D Director). If the assembly/disassembly is performed by only one (1) person, that person must meet the criteria of a competent & qualified person. They will be the A/D Director.
- The A/D must understand the applicable procedures & review the procedures immediately prior to the commencement of assembly/disassembly unless the A/D Director understands the procedures and has applied them to the same type and configuration of equipment (including accessories).
- The assembly and disassembly of the crane will be conducted by following the manufacturer's procedures
- Assembly/disassembly is prohibited below and near energized power lines
- Assembly/Dismantlement work fall protection is required when 15-feet or more
- Non-assembly/Dismantlement work fall protection is required at 6-feet or more
- A post assembly inspection must be done by a qualified person before use

UTILIZE ITEM "E" WHEN ASSEMBLYING AND DISASSEMBLYING

8. RIGGING- you may refer to section 1926.251 for additional direction

- The Competent Person will determine what type of rigging equipment & what type of rigging hitch will be used to make the pick. If a subcontractor is performing the pick then their assigned competent person would be responsible to make these determinations.
- All rigging will be done by a **qualified** rigger.

- Rigging equipment, Slings, and all fastenings and attachments shall be inspected daily or prior to use by a competent person. Defective equipment or slings shall be removed from service. Additional inspections may be necessary during sling use.
- Synthetic slings must be protected from abrasive, sharp or acute edges, and configurations that might reduce the sling's rated capacity.
- Capacities of rigging equipment shall not be exceeded.
- Loads must not be hoisted unless the weight is known and the rigging equipment is adequate and properly attached.
- Manufacturer procedures will be used when using synthetic slings during assembly or disassembly rigging.
- All rigging equipment must have affixed and legible identification markings as prescribed by the manufacturer that indicates the recommended safe working load. You can find a monthly inspection form for Chain Link Rigging in Item "D".

Alloy steel chains-. Please refer to section 1926.251

- Welded alloy steel chain slings shall have permanently affixed durable identification stating size, grade, rated capacity, and sling manufacturer.
- Hooks, rings, oblong links, pear-shaped links, welded or mechanical coupling links, or other attachments, when used with alloy steel chains, shall have a rated capacity at least equal to that of the chain.
- Job or shop hooks and links, or makeshift fasteners, formed from bolts, rods, etc., or other such attachments, shall **not** be used.
- A thorough periodic inspection of alloy steel chain slings in use shall be made on a regular basis, and defective chain links must be taken out of service. The inspection will be determined on the basis of
 1. Frequency of sling use;
 2. Severity of service conditions;
 3. Nature of lifts being made; and
 4. Experience gained on the service life of slings used in similar circumstances.

Please refer to ITEM D for paperwork to document the inspection

**WHEN UTILIZING WIRE ROPE, NATURAL ROPE AND SYNTHETIC FIBER, SHACKLES AND HOOKS
PLEASE REFER TO OSHA STD 1926.251**

9. OUTRIGGERS AND STABILIZERS

- Outriggers and stabilizers will be fully extended or, if permitted by the manufacturer's procedures, deployed as specified in the load chart.
- Outriggers must be set to remove equipment weight from the wheels, except for locomotive cranes.
- Outrigger floats, if used, must be attached to the outriggers; stabilizer floats, if used, must be attached to the stabilizers.
- Each outrigger or stabilizer must be visible to the operator or to a signal person during extension and setting.

- Outrigger and stabilizer blocking must be placed under the float/pad of the jack or if there is no jack, under the outer bearing surface of the outrigger or stabilizer beam. Blocking must also be sufficient to sustain the loads and maintain stability and must be properly placed

10. PERSONNEL PLATFORMS

PLEASE REFER TO OSHA STD 1926.1431

11. F.H. PASCHEN PROTOCOL FOR CRITICAL LIFTS

Critical lift as it pertains to the operations of F.H. Paschen, a critical lift is defined as a lift that has to be engineered with an engineered stamp or is a pick requiring the use of multiple cranes.

MULTIPLE CRANE LIFT

Please refer to subpart CC Cranes and Derricks in Construction 1926.1432. The Multi-crane lift must have a site-specific plan created with the following minimum requirements:

- **The plan must be prepared by a qualified person and meet the requirements of subpart CC Cranes and Derricks in Construction 1926.1432**
- **When qualified person determines engineering is necessary then employer must provide**
- **The lift must be directed by a person that meets both the definition of a qualified & competent person (Lift Director).**
- **The Lift Director must review the plan in a pre-task meeting with all workers involved with the operation.**

12. WHAT IS F.H. PASCHEN'S RESPONSIBILITY WHEN SUBS ARE UTILIZING CRANES ONSITE?

- As F.H. Paschen is considered the Controlling Contractor we are responsible to provide adequate ground conditions for the set up & use of any crane
- The Controlling Contractor is also responsible for hazards that may be present on the project such as pits, voids, tanks, shafts, etc.

Multiple Crane Use Onsite-

- F.H. Paschen is responsible to have a system in place, to insure cranes will work in a safe manner when being used within the radius of another crane.

Subcontractor Documentation-

When a subcontractor has a crane onsite, F.H. Paschen shall do its due diligence to check the following documentation as the controlling contractor.

- **Annual Crane Inspection Documentation is available and has been conducted**
- **Monthly Crane Inspection Documentation-shall be checked monthly at a minimum by F.H. Paschen staff to insure subcontractor is compliant**
- **Operator Certification**
- **If a signal person is utilized, the signal person shall show proof of certification**
- **Rigger certification**

You may reference the documents in "Item A" to ensure the subcontractor has taken the proper steps and precautions before making a lift.

The above information will serve as a guide only, when a lift is being conducted onsite with a Crane or Mobile piece of equipment, that must adhere to the OSHA Crane Standards 1926.1400 Subpart CC



Item A

CHECK LIST FOR F.H. PASCHEN SUPPLIED CRANE BEFORE HOISTING A LOAD

1. Job site "Work/ Crane Safety" plan must be performed and documented for hoisting.
2. Properly size your crane to meet hoisting requirements.
3. Define and have knowledge of items to be hoisted.
4. Have a current copy available of the load chart for the crane.
5. Check and verify what your crane is sitting on. Verify bearing pressure requirements to insure there is adequate support below. Know where underground structures or utilities are located.
6. Use proper rigging designated for the capacity your hoisting with the proper certifications.
7. Qualified rigging personnel shall inspect rigging prior to each use and document Monthly.
8. Daily Crane inspections are mandatory prior to use.
9. When using a crane that requires the use of "outriggers", the operator/oiler must verify outriggers are properly placed on cribbing or firm level surface prior to each use after the crane has been moved and re-set.
10. Have a JHA/Pre Hoisting meeting with the operator and the designated signal person. Signal person must have the designated Orange F.H. Paschen Signal Person sticker on their hard hat or have a qualified card in possession.
11. If we let a subcontractor use our hoisting equipment, have them meet with the operator and their designated signal person prior to hoisting and conduct a pre-planner.

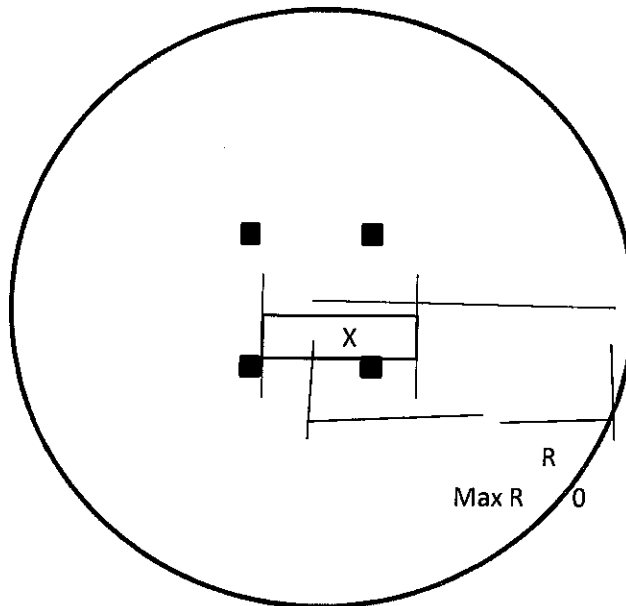
All Critical lifts must be engineered, and this checklist does not apply to a critical lift.

Critical lift as it pertains to the operations of F.H. Paschen, a critical lift is defined as a lift that has to be engineered with an engineered stamp or is a pick requiring the use of multiple cranes.



F.H. Paschen Crane Safety Daily Checklist

Crane Make:	_____		
Crane Model:	_____		
Year of Crane:	_____		
Type of Crane:	Lattice	or	Hydraulic
Counterweight:	_____		
Max Weight of Pick for the Day (in LBS):	_____		
Max Radius (R) of Pick for the Day (in FT):	_____		
Manufactures Capacities Based off Above Max Radius (in LBS):	_____		
Overhead Obstructions:	Yes	or	No
Overhead Power:	Yes	or	No
If Yes To Overhead Power, How Many KV:	_____		
If Yes To Overhead Power, Is Shutdown Required:	Yes	or	No
Has the Crane Operator Inspected the Condition of the Surrounding Ground Prior to Making Pick:	Yes	or	No
Does the Ground Condition Require Crane Mats or Lagging for Additional Bearing Capacity:	Yes	or	No
Who Will Be The Designated Signaler For Today's Picks:	_____		
Has the Rigging Been Inspected Prior to Use:	Yes	or	No



Item B

F.H. PASCHEN'S PROTOCOL FOR CRANE SIGNAL HARD HAT STICKERS

1. Give out Stickers to **F.H. PASCHEN EMPLOYEES ONLY** when you receive written documentation of signal training.

A copy of the documentation must be kept onsite at all times. The copy will be kept with the employee's sign-up package. Additionally, a copy must be sent to Risk Management. Risk Management will track the F.H. Paschen personnel who have received the training on the Risk Management Intranet web site.

F.H. Paschen can **NOT** accept another **construction company's card**. The Crane Certification Card must be given by a **3rd party administrator (ie. Union Hall or Safety Consultant)**. The documentation must specify the type of signaling he/she is qualified for.





















The sticker must be placed on the RIGHT FRONT side of the hard hat of the F.H. Paschen employee.

2. If an F.H. Paschen employee needs to be trained for signaling, please follow the mandatory protocol:

Training & certification shall be performed by a Qualified Evaluator. The individual will be allowed to review the study guide (see attached). The evaluator will administer the written test (see attached). Only a 100% passing score (20 out of 20) will be considered in order to be a certified crane signaler. A passing test form will be signed & dated by the Evaluator, and this form will be sent to Risk Management and the jobsite office manager. The qualified evaluator will insure the employee has a basic understanding of equipment operation and limitations, including the crane dynamics involved in swinging and stopping loads and boom deflection from hoisting loads. Lastly, the employee must demonstrate knowledge of the signals thru a practical test. An F.H. Paschen Certified Crane Signaler card will also be signed by the Evaluator and given to the individual.

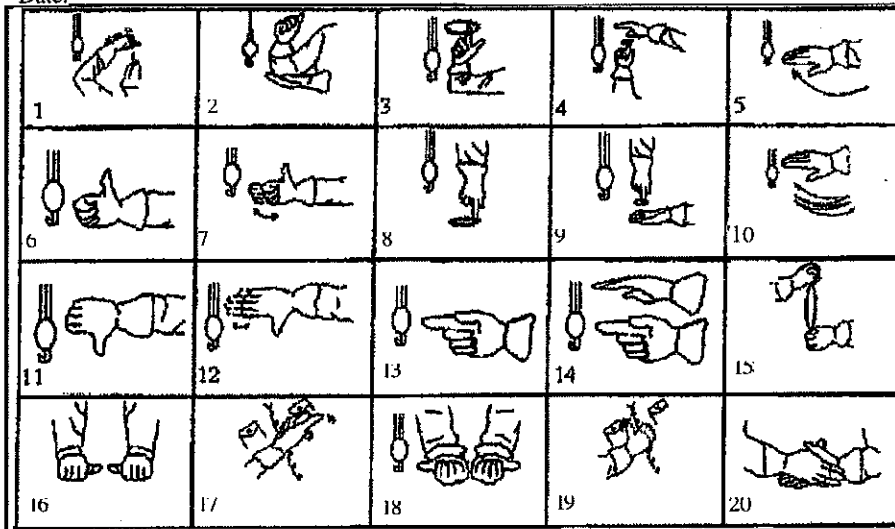
3. If an employee has received the training previously, then upon receiving proof of the training the designated office manager or superintendent for the jobsite will distribute the Crane Stickers once they receive the employee sign-up package, with a copy of the crane certification card indicating he/she is qualified for Crane signaling. A current list of certified crane signalers is on the F.H. Paschen Risk Management portal webpage.

CRANE SIGNALING STUDY GUIDE

 Main Hoist	 Auxiliary Hoist	 Hoist Load	 Hoist Load Slowly	 Stop
 Raise Boom	 Raise Boom & Lower Load	 Lower Load	 Lower Load Slowly	 Emergency Stop
 Lower Boom	 Lower Boom & Raise Load	 Swing Boom	 Swing Boom Slowly	 Travel (mobile eqpt)
 Retract Boom 2 hands	 Retract Boom 1 hand	 Extend Boom 2 hands	 Extend Boom 1 hand	 Dog Everything

Name: _____ Supervisor: _____

Date: _____



1. Which signal is Dog Everything? _____
2. Which signal is Retract Boom 1 Hand? _____
3. Which signal is Swing Boom? _____
4. Which signal is Auxiliary Hoist? _____
5. Which signal is Lower Load Slowly? _____
6. Which signal is Raise Boom? _____
7. Which signal is Hoist Load? _____
8. Which signal is Swing Boom Slowly? _____
9. Which signal is Lower Load? _____
10. Which signal is Stop? _____
11. Which signal is Emergency Stop? _____
12. Which signal is Main Hoist? _____
13. Which signal is Lower Boom? _____
14. Which Signal is Retract Boom 2 Hands? _____
15. Which Signal is Extend Boom 1 Hand? _____
16. Which Signal is Raise Boom & Lower Load? _____
17. Which Signal is Lower Boom & Raise Load? _____
18. Which Signal is Travel? _____
19. Which Signal is Hoist Load Slowly? _____
20. Which Signal is Extend Boom 2 Hands? _____

Score: _____

Does the employee have a basic understanding of equipment operation? Circle Yes or No

Did you perform a practical test with the employee? Circle Yes or No

Supervisor Signature: _____ Date: _____

THINK SAFETY

TYPE OF EQUIPMENT

ITEM C

F. H. PASCHEN

DAILY OPERATION AND SAFETY REPORT

REPORT ANY CONDITION REQUIRING REPAIR OR MAINTENANCE

CRAWLER CRANE	ROUGH TERRAIN CRANE	DATE
---------------	---------------------	------

A = ADJUSTMENT L = LUBRICATION C = CHANGE R = REPAIR X = O.K.

FUNCTION	A	L	C	R	X	FUNCTION	A	L	C	R	X
INSPECT;						INSPECT;					
Crawler Treads						Tires					
Track Pins						Lug Nuts					
Rollers						Axles					
Drive Tumblers						Steering					
Idler Tumblers						Outriggers					
Propel Chains						Drive Shafts					
Swing Circle & Rack						Swing Circle & Rack					
Cone Roller Path & Rack						Cone Roller Path & Rack					
Lower Traction Gears											
All Grease Fittings						All Grease Fittings					
Main Machinery Gears											
Shaft											
Clutch Linings						Clutch Linings					
Clutch Housing						Clutch Housing					
Brake Linings						Brake Linings					
Brake Drums						Brake Drums					
All Linkage						All Linkage					
CHECK;						CHECK;					
Air Pressure						Air Pressure					
Chains											
Torque Convertor						Torque Convertor					
Engine Oil Level						Engine Oil Level					
Engine Water Level						Engine Water Level					
Engine Fan Belts						Engine Fan Belts					
Engine Batteries						Engine Batteries					
Engine Main Clutch Adj						Engine Main Clutch Adj					
Engine Air Cleaner						Engine Air Cleaner					
Boom Hoist Operation						Main Hoist					
Main Hoist Operation						Aux Hoist					
Travel Operation						Travel Operation					
Steering Operation						Steering Operation					
Wire Rope						Wire Rope					
Sheaves						Sheaves					
Boom Condition						Boom Condition					
Pendants Condition						Pendants Condition					
Jib Condition						Jib Condition					
All Pins Condition						All Pins Condition					
Bucket Condition						Bucket Condition					
INSPECT;						INSPECT;					
For Leaks, oil, water, fuel, air						For Leaks, oil, water, fuel, air					
Load Block						Load Block					
CHECK;						CHECK;					
Carrier Tires						Carrier Tires					
Carrier Steering						Carrier Steering					
Carrier Outriggers						Carrier Outriggers					
Carrier Engine Oil						Carrier Engine Oil					
Carrier Elect Systems						Carrier Elect Systems					
General Cab Condition						General Cab Condition					

MACHINE NO.	
-------------	--

OPERATOR	
----------	--

HOUR READING	
--------------	--

TYPE OF WORK	
--------------	--

TIME REPORT	
OPERATION TIME	
GREASING	
DELAY TIME	
REPAIR TIME	
TOTAL HOURS	



F.H. PASCHEN, S.N. NIELSEN & ASSOCIATES LLC
GENERAL CONTRACTORS

Monthly Chain Link Rigging Inspection Sheet

Date of Inspection _____

Tag ID# _____

Description _____

Length _____

Size _____

Grade _____

Rated Capacity _____

Manufacturer _____

Any deformations in chain?	Yes	No
Any noticeable wear?	Yes	No
Any corrosion on chain?	Yes	No
If wear, does it exceed table H-2?	Yes	No
Is tag with capacity still on rigging?	Yes	No
Is tag legible?	Yes	No
Date of yearly inspection	_____	

How often is rigging used? *Circle one*

Daily	Few times a week	Few times a month
Not Used	Other _____	

How severe are the working conditions?

Heavy cycle	Normal Duty	Light Duty
-------------	-------------	------------

How is rigging being used? *Circle one or more*

Sling	Choker	Basket
Other: _____		

Inspected by: _____

OSHA TABLE H-2: Maximum Allowable Wear At Any Point of Link

Chain Size (IN)	Maximum Allowable Wear (IN)
1/4	3/64
3/8	5/64
1/2	7/64
5/8	9/64
3/4	5/32
7/8	11/64
1	3/16
1 1/8	7/32
1 1/4	1/4
1 3/8	9/32
1 1/2	5/16
1 3/4	11/32

Assembly/Disassembly

- Has a JHA been performed with the crew, so they understand their tasks, the hazards associated with their task, and the locations/positions they need to avoid?
- Crew members must inform the operator prior to moving to a location outside of the view of the operator. The operator will not move the equipment if this crew member could be injured at this new location
- When pins are being removed, employees may only be under the boom, jib or other component when site constraints REQUIRE the employee to be there. The A/D Director must implement procedures that minimize the risk and extent of exposure under the boom
- All loads will be within capacity limits on the equipment, its components, lugs and accessories
- Cantilevered boom sections are not to exceed manufacturer limitations
- If rigging is used for assembly/disassembly, refer to the Rigging portion of the FHP Crane Safety Plan
- Outriggers- refer to the Outriggers portion of the FHP Crane Safety Plan
- Assembly/Disassembly around Power Lines- If the line is energized, and you will be within 20 feet of the lines, please refer to OSHA std 1926.1406

The A/D Director must address the following specific hazards during assembly or disassembly

- Ground conditions-must be firm, drained, and graded to a sufficient extent to meet the manufacturers specs.
- Blocking materials- size, amount, condition and method must sustain the loads and stability
- Location of blocking- When supporting lattice booms or components, it must protect the structural integrity of the equipment and prevent dangerous movement and collapse
- Verify assisted crane loads
- Boom and jib pick points
- Center of gravity- must be identified
- Stability upon pin removal-Boom section, suspension and components must maintain stability
- Snagging- Suspension rope & pendants should not catch on the boom, jib connection pins or cotter pins
- Struck by Counterweights
- Boom hoist brake failure-brake must be tested prior to using to prevent boom movement
- Loss of backward stability
- Wind speed and weather

After assembly is completed, A post assembly inspection must be done by a qualified person before use

DISASSEMBLY ONLY (for dismantling of booms and jibs)

None of the pins shall be removed:

- When the Pendants are in tension
- On Boom sections between pendant attachment points and the crane body when pendants are in tension
- On boom sections between the uppermost boom section and the crane body when the boom is supported by the uppermost boom section resting on the ground
- When Top pins on boom sections on the cantilevered portion of the boom should be removed until the cantilevered section is fully supported

**Crawler, Locomotive and Truck Cranes
Inspection**

Post Assembly

	<i>Satisfactory</i>	<i>Unsatisfactory</i>	<i>N/A</i>	<i>Comments</i>
1. A crawler, locomotive or truck crane shall be given the following post assembly visual inspections				
a. Control mechanisms for wear and malfunction				
b. Deterioration or leakage of air or hydraulic systems				
c. Hydraulic system for oil level				
d. Hydraulic hoses and fittings for leaks and deterioration.				
e. All running ropes				
f. Lifting hooks for deformation or cracks. A hook having a crack, a throat opening of more than 15% of normal or more than 10 degree twist from the plane of an unbent hook shall be replaced.				
g. Rope reeving in conformance with the original installation.				
h. Electrical apparatus for malfunction, wear, dirt and moisture accumulations.				
i. Tires for specified pressure if applicable				
2. A crawler, locomotive or truck crane shall be given a visual inspection not less than monthly for malfunction of safety devices.				

Wire Rope Inspection

1. Running ropes in continuous service shall have an inspection not less than once a month . The inspection shall include:				
a. Measurement of diameter of rope.				
b. Count of broken wires in 1 lay when concentrated.				
c. End connections for broken wires.				
d. Corrosion, kinking, crushing, cutting, or other conditions affecting the capability of the rope.				
e. Cracked, bent, worn, corroded or improperly applied end connectors.				
2. For rope in contact with equalized sheaves or with saddles, or on sheaves where rope travel is limited, the inspection shall include moving the rope from it's normal position on the sheave and examining the rope at the rope contact point.				
3. Inspection of a non-rotating type rope shall include the determination that the wires are not broken or worn within the rope.				
4. A rope which has been idle more than 1 month, shall be given a complete inspection.				

	<i>Satisfactory</i>	<i>Unsatisfactory</i>	<i>N/A</i>	<i>Comments</i>
a. Structural members and boom for cracks, deformation and corrosion.				
b. Bolts and rivets for tightness. Cotter keys in boom pins				
c. Sheaves, drums, pins, bearings, shafts, gears, rollers, locking and clamping devices for wear, distortion and cracks.				
d. Power sources for performance.				
e. Brake and clutch system parts, linings, pawls, and ratchets for excessive wear.				
f. Load, boom angle and other indicators for inaccuracies over their full range.				
g. Travel, steering, braking and locking devices for malfunction.				
h. Tires/tracks for wear or damage.				
i. Radiators and oil coolers for leakage, blockage of air passages and improper performance.				
j. Rust on piston rods and control valves.				
k. Oil strainers and filters for blockage.				

**CRAWLER, LOCOMOTIVE AND TRUCK CRANES
INSPECTION**

Post Assembly



Appendix J. F.H. PASCHEN SILICA EXPOSURE AWARENESS PLAN

In addition to some of the tasks listed in Table 1 of OSHA Standard 1926.1153, the following tasks may be conducted by F.H. Paschen, S.N Nielsen & Associates LLC (F.H. Paschen) personnel that may lead to Silica Exposure:

1. Sweeping/Cleaning of concrete – All clean-up will be performed with the use of a HEPA vacuum system or will be washed down in a wet state.
2. Sweeping/Cleaning of Stone or asphalt- wet method will be utilized
3. Bushhammering of Concrete-Hammer with Bushing Tool and Vacuum
4. Mixing/Pouring of Concrete- Manufacturer's letter of interpretation states testing has been conducted and the risk does not require action.
5. Other tasks not readily identifiable that may contain silica exposure

Task Specific Exposure Control Plans will be developed for specific tasks listed above and including tasks in Table 1. Reference page 4 for info to create a Task Specific Exposure Plan

If Abrasive Blasting is conducted, ventilation must be utilized in conjunction with other engineering controls

When implementing the control measures specified in Table 1, F.H. Paschen shall follow F.H. Paschen's amended Table 1 and perform the below tasks using an engineering control(s) as listed below as applicable to the operation:

1. For tasks performed indoors or in enclosed areas, provide a means of exhaust as needed to minimize the accumulation of visible airborne dust;
2. For tasks performed using wet methods, apply water at flow rates sufficient to minimize release of visible dust;
3. For measures implemented that include an enclosed cab or booth, ensure that the enclosed cab or booth:
 - Is maintained as free as practicable from settled dust;
 - Has door seals and closing mechanisms that work properly;
 - Has gaskets and seals that are in good condition and working properly;
 - Is under positive pressure maintained through continuous delivery of fresh air;
 - Has intake air that is filtered through a filter that is 95% efficient in the 0.3-10.0 μm range (e.g., MERV-16 or better); and Has heating and cooling capabilities.
4. When performing tasks using a HEPA vacuum system, use and maintenance will be performed in accordance to manufacturer recommendations

HOUSEKEEPING

When performing housekeeping on your projects that may involve silica exposure:

- DRY SWEEPING OR BRUSHING IS NOT PERMITTED, unless HEPA filtered vacuuming and wet sweeping is not feasible
- Compressed air for cleaning clothing or surfaces is not permitted if it will contribute to employee exposure to respirable crystalline silica; unless compressed air is used w/ a ventilation system to capture the dust cloud effectively or NO alternative methods are feasible

EDUCATION AND TRAINING

Prior to performing activities, or working on project sites where personnel could be exposed to silica dust, *F.H. Paschen, S.N. Nielsen & Associates LLC* will ensure that personnel receive suitable education and training. As necessary, personnel will be trained to a level of “demonstrated competency”. While not necessarily an exhaustive list, education and training may include:

- The hazards and risks associated with exposure to silica dust, including Cancer, lung effects, immune system effects and kidney effects.
- The signs and symptoms of silica related diseases.
- Specific tasks that could result in exposure to respirable crystalline silica
- General and specific silica exposure reduction methods/strategies, including the equipment and control system used. (*i.e. as detailed in the general/specific exposure control plans if a work task is not within Table one & the F.H. PASCHEN amended table one*)
- The use and care of a respirator as shown during your fit test
- The competent person, which will be addressed during the daily JHA
- The purpose of the medical surveillance program

Finally, a copy of the new Silica Standards, 1926.1153 will be made readily available to any employee along with this silica exposure control plan.

The education and training will be delivered to F.H. Paschen employees through a variety of forums, including but not necessarily limited to:

- New Employee Orientations.
- Corporate and Regional office training days.
- JHA training and Silica specific toolbox talks
- Notifications and Bulletins (I.E. OSHA Fact Sheets)



PROTECT YOURSELF FROM SILICOSIS

Silicosis is caused by exposure to respirable crystalline silica dust. Crystalline silica is a basic component of soil, sand, granite, and most other types of rock, and it is used as an abrasive blasting agent. Silicosis is a progressive, disabling, and often fatal lung disease. Cigarette smoking adds to the lung damage caused by silica.

Effects of Silicosis

- Lung cancer – Silica has been classified as a human lung carcinogen.
- Bronchitis/Chronic Obstructive Pulmonary Disorder.
- Tuberculosis – Silicosis makes an individual more susceptible to TB.
- Scleroderma – a disease affecting skin, blood vessels, joints and skeletal muscles.
- Possible renal disease.

Symptoms of Silicosis

- Shortness of breath; possible fever.
- Fatigue; loss of appetite.
- Chest pain; dry, nonproductive cough.
- Respiratory failure, which may eventually lead to death.

Sources of Exposure

- Sandblasting for surface preparation.
- Crushing and drilling rock and concrete.
- Masonry and concrete work (e.g., building and road construction and repair).
- Mining/tunneling; demolition work.
- Cement and asphalt pavement manufacturing.

Preventing Silicosis

- Use all available engineering controls such as blasting cabinets and local exhaust ventilation. Avoid using compressed air for cleaning surfaces.
- Use water sprays, wet methods for cutting, chipping, drilling, sawing, grinding, etc.
- Substitute non-crystalline silica blasting material.
- Use respirators approved for protection against silica; if sandblasting, use abrasive blasting respirators.
- Do not eat, drink or smoke near crystalline silica dust.
- Wash hands and face before eating, drinking or smoking away from exposure area



HOW TO CREATE A TASK SPECIFIC EXPOSURE CONTROL PLAN?

THE PLAN, IN CONJUNCTION WITH YOUR JHA SHOULD INCLUDE THE FOLLOWING ITEMS

You may utilize the following website to create your plan on a step-by-step basis as the format has already been created and is easy to follow. <http://www.silica-safe.org/>

You may refer to Tab 5 of the F.H. Paschen Silica Binder which provides an example of a completed task specific exposure control plan

- Description of task to be performed that has the potential to expose employees to respirable crystalline silica (**This should be on the JHA**)
- Name of the Competent Person(s) (**This should be on the JHA**)
- Air sampling data for any task that is **not** described in table 1 of the osha standard (**This will be done through an industrial hygienist only**)
- Type of engineering controls, work practices, and respiratory protection that will be used to eliminate employee exposure to respirable crystalline silica
- Document the acceptable Means of clean up (housekeeping) and Means of disposal after the task is completed (**Use of HEPA VAC or Wet Methods**)
- Post the F.H. PASCHEN Silica Awareness Sign in the entrance area around the exposure area when a respirator is required to perform a specific task
- Create a (CAZ) controlled access zone (**if a respirator is required**) **and work is around other workers or the public**
- Document the maintenance of any equipment used that pertains to protection from Silica hazards
- **All employees involved in the task or working around the task shall sign the JHA as an additional acknowledgment of Training**
- All employees involved in the task shall have been trained in accordance to the corporate silica awareness plan

AIR MONITORING

If a task is to be performed that is not included in Table one, F.H. Paschen has two alternative exposure control methods:

F.H. Paschen will assess the exposure of each employee who is or may reasonably be expected to be exposed to Respirable Crystalline Silica at or above the Action Level in accordance with either the Performance Option or the Scheduled Monitoring Option.

- **Performance Option:** F.H. Paschen will assess the 8-hour TWA exposure for each employee on the basis of any combination of air monitoring data or objective data sufficient to accurately characterize employee exposures to Respirable Crystalline Silica.

- **Scheduled Monitoring Option:** F.H. Paschen will perform initial monitoring to assess the 8-hour TWA exposure for each employee on the basis of one or more personal breathing zone air samples that reflect the exposures of employees on each shift, for each job classification, and in each work area. Where several employees perform the same tasks on the same shift and in the same work area, F.H. Paschen will plan to monitor a representative fraction of these employees. When using representative monitoring, F.H. Paschen will sample the employee(s) who are expected to have the highest exposure to Respirable Crystalline silica.

- ✓ *If initial monitoring indicates that employee exposures are below the Action Level, F.H. Paschen will discontinue monitoring for those employees whose exposures are represented by such monitoring.*
- ✓ *Where the most recent exposure monitoring indicates that employee exposures are at or above the Action Level but at or below the PEL, F.H. Paschen will repeat such monitoring within six months of the most recent monitoring.*
- ✓ *Where the most recent exposure monitoring indicates that employee exposures are above the PEL, F.H. Paschen will repeat such monitoring within three months of the most recent monitoring.*
- ✓ *Where the most recent (**non-initial**) exposure monitoring indicates that employee exposures are below the Action Level, F.H. Paschen will repeat such monitoring within six months of the most recent monitoring until two consecutive measurements, taken seven or more days apart, are below the Action Level, at which time F.H. Paschen will discontinue monitoring for those employees whose exposures are represented by such monitoring, except when a reassessment is required.*

F.H. Paschen will reassess exposures whenever a change in the production, process, control equipment, personnel, or work practices may reasonably be expected to result in new or additional exposures at or above the Action Level, or when F.H. Paschen has any reason to believe that new or additional exposures at or above the Action Level have occurred.

F.H. Paschen will ensure that all Respirable Crystalline Silica samples taken are collected by a qualified individual and the samples are evaluated by a qualified laboratory. Within five working days after completing an exposure assessment, F.H. Paschen will notify each affected employee in writing of the results of that assessment or post the results in an appropriate location accessible to all affected employees. Whenever an exposure assessment indicates that employee exposure is above the PEL, F.H. Paschen will describe in the written notification the corrective action being taken to reduce employee exposure to or below the PEL.

RESPIRATOR USE

Where respiratory protection is required by this program, F.H. Paschen will provide each employee an appropriate respirator that complies with the requirements of the company's Respiratory Protection Program and the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Respiratory protection may be required by the OSHA Construction Standard Table 1, for tasks not listed in Table 1, or where the company has not fully and properly implemented the



engineering controls, work practices, and respiratory protection described in Table 1. Situations requiring respiratory protection include:

- Where exposures exceed the PEL during periods necessary to install or implement feasible engineering and work practice controls;
- Where exposures exceed the PEL during tasks, such as certain maintenance and repair tasks, for which engineering and work practice controls are not feasible; and
- During tasks for which an employer has implemented all feasible engineering and work practice controls and such controls are not sufficient to reduce exposures to or below the PEL.

When the use of a respirator is required per table one or a task specific exposure control plan, the following will be conducted:

1. A controlled access zone (CAZ) may be required. The CAZ may include the use of cones, barricades and tape to eliminate the possibility of a co-worker, subcontractor's employee or anybody else, including a member of the public from being exposed to silica.
2. The F.H. PASCHEN Silica Awareness sign should be posted near the entrance of the CAZ or in an area around the area of exposure

When an employee must wear a respirator, and you are unsure if he/she is medically approved to wear a respirator in the last year, go to the F.H. PASCHEN Safety Portal, and in the Respiratory Folder pull up the respiratory list to verify the employee obtained a medical evaluation within the last year.

Due to the risk posed by respirable silica, it is critical that all personnel involved in activities that could potentially create silica dust take specific actions to ensure that, as much as practicable, a hazard is not created. In recognition of this, the following (Silica related) responsibilities have been established and must be adhered to:

F.H. Paschen, S.N. Nielsen & Associates LLC Safety Committee

Certain members of the safety committee may be responsible for:

- Maintaining applicable records (*i.e. exposure sampling, inspections, respirator fit tests, training records, etc.*) in accordance with OSHA's record retention procedures/practices
- Regularly evaluating new equipment and technologies that become available, as able/appropriate, purchasing the "best available" equipment/technologies. Equipment/technologies with (silica) dust suppression and/or capture technologies will generally be given preference over equipment/technologies that lack such.
- Implementing a suitable respirable silica exposure monitoring program, or otherwise ensuring representative exposure monitoring results are available. The purpose of the program will ensure that F.H. Paschen, S.N. Nielsen & Associates LLC has quantifiable silica exposure data available for all regularly occurring, as well as reasonably foreseeable, work activities.



-
- Following up on project compliance in regards to task specific Exposure Control Plans (ECPs) and if they are being properly developed and effectively communicated and implemented as appropriate.
 - Ensuring that all employees (*i.e. Managers, Supervisors and Workers*) receive the necessary education and training related to this Policy, as well as project/task specific ECPs.
 - *Overseeing the Tracking of the number of days an employee wears a respirator.*

F.H. Paschen, S.N. Nielsen & Associates LLC Supervisors (i.e. Superintendents/Foreman) are responsible for:

- Creating or obtaining a copy of the project/task specific ECPs (*and/or other similar such information*), and ensuring such are made available at each work site.
- Ensuring that all the tools, equipment, PPE and materials (*including water*) necessary to implement the ECP is available (*and in good working order*) prior to allowing work activities to commence.
- Ensuring that all workers (*under the supervisor's direction and control*) have received the necessary education and training. As appropriate, each supervisor must ensure that workers are available to “demonstrate competency” for identified tasks.
- Ensuring that workers adhere to the project/task specific ECP, including PPE and personal hygiene (*i.e. including be clean shaven where the respirator seals to the user's face*) requirements.
- Coordinating work activities with the Owner/Prime Contractor as required, and/or otherwise implementing the controls necessary to protect others (*i.e. erecting of barricades and signage*) who could be adversely effected by F.H. Paschen, S.N. Nielsen & Associates LLC's tasks.

ALL F.H. Paschen, S.N. Nielsen & Associates LLC Employees are responsible for:

- Knowing the hazards of silica dust exposure.
- Using the assigned protective equipment in an effective and safe manner.
- Working in accordance to Table 1 or within the project/task specific ECP.
- Reporting (*immediately*) to their supervisor, any hazards (*i.e. unsafe conditions, unsafe acts, improperly operating equipment, etc.*).



RECORD-KEEPING

The following will be maintained either electronically or as a paper copy in accordance to 1926.1153

1. Air Monitoring Data, including the following information
 - a. Date of Measurement for each sample
 - b. Type of Task Monitored
 - c. Sampling and analytical method used
 - d. #, duration and results of samples taken
 - e. Identity of the laboratory that performed the analysis
 - f. Type of PPE worn by employees during monitoring
 - g. Name, Social Security # and job classification of all employees utilized for monitoring
2. All Objective data relied upon to comply with the requirements, including:
 - a. Crystalline silica material in question
 - b. Source of objective data
 - c. Testing protocol and results
 - d. Description of the process, task, or activity the objective data is based and any other data utilized
3. Medical Surveillance- the employee record shall include the following:
 - a. Name & social security #
 - b. Copy of the PLHCP's and specialists written medical opinion
 - c. Copy of the information provided to the PLHCP & specialists

All of the aforementioned records in this section will be maintained pursuant to 29 CFR 1910.1020

MEDICAL SURVEILLANCE PROGRAM

Medical surveillance will be made available for each employee who will be required to use a respirator for 30 or more days per year due to their Respirable Crystalline Silica exposure. Medical surveillance (i.e. medical examinations and procedures) will be performed by a PLHCP (Physician or other licensed health care professional) and provided at no cost to the employee at a reasonable time and place.

The primary purpose of the medical surveillance program is to identify medical conditions that could lead to an occupational disease. The secondary objective is to assure compliance with federal and state regulations which require medical monitoring when employees use certain materials.

F.H. Paschen will make available an initial (baseline) medical examination within 30 days after initial assignment if it is known the employee will work 30 or more days with a respirator within the current year of employment, unless the employee has received a medical examination that



meets the requirements of the OSHA Respirable Crystalline Silica Construction Standard within the last three years. The examination will include, but not be limited to the following in accordance to OSHA Standard 1926.1153:

- Medical & Work History
- Physical exam w/ emphasis on the respiratory system
- Chest X-RAY
- Pulmonary function test
- Test for latent tuberculosis infection
- Any other test deemed appropriate by the PLHCP

F.H. Paschen will make available medical examinations that include the aforementioned procedures (except testing for latent tuberculosis infection) at least every three years. If recommended by the PLHCP, periodic examinations can be more frequently than every three years.

When an employee must go to the healthcare provider performing the exam, the employee must be provided the following information to give to the healthcare provider:

1. A copy of the exposure standards in the new OSHA respirable crystalline silica rule
2. A “description of the employee's former, current, and anticipated duties as they relate to the employee's occupational exposure to respirable crystalline silica”
3. “The employee's former, current, and anticipated levels of occupational exposure to respirable crystalline silica”
4. “A description of any personal protective equipment used or to be used by the employee, including when and for how long the employee has used or will use that equipment”
5. “Information from records of employment-related medical examinations previously provided to the employee and currently within the control of the employer”

F.H. Paschen will ensure that the PLHCP explains to the employee the results of the medical examination and provides each employee with a written medical report within 30 days of each medical examination performed. The written report shall contain:

- A statement indicating the results of the medical examination, including any medical condition(s) that would place the employee at increased risk of material impairment to health from exposure to Respirable Crystalline Silica and any medical conditions that require further evaluation or treatment;
- Any recommended limitations on the employee's use of respirators;
- Any recommended limitations on the employee's exposure to Respirable Crystalline Silica; and; a statement that the employee should be examined by a Specialist if the chest X-ray is classified as 1/0 or higher by the B Reader, or if referral to a Specialist is otherwise deemed appropriate by the PLHCP.

F.H. Paschen will also obtain a written medical opinion from the PLHCP within 30 days of the medical examination. The written opinion shall contain only the following in order to protect the employee's privacy:

1. The date of the examination;
2. A statement that the examination has met the requirements of the OSHA Respirable Crystalline Silica Construction Standard; and
3. any recommended limitations on the employee's use of respirators.

If the employee provides written authorization, the written opinion shall also contain either or both of the following:

- Any recommended limitations on the employee's exposure to Respirable Crystalline Silica; and/or A statement that the employee should be examined by a Specialist if the chest X-ray is classified as 1/0 or higher by the B Reader, or if referral to a Specialist is otherwise deemed appropriate by the PLHCP.

If the PLHCP's written medical opinion indicates that an employee should be examined by a Specialist, F.H. Paschen will make available a medical examination by a Specialist within 30 days after receiving the PLHCP's written opinion. F.H. Paschen will ensure that the examining Specialist is provided with all of the information that the employer is obligated to provide to the PLHCP.

F.H. Paschen will ensure that the Specialist explains to the employee the results of the medical examination and provides each employee with a written medical report within 30 days of the examination.

The written report will contain:

1. A statement indicating the results of the medical examination, including any medical condition(s) that would place the employee at increased risk of material impairment to health from exposure to Respirable Crystalline Silica and any medical conditions that require further evaluation or treatment;
2. Any recommended limitations on the employee's use of respirators; and Any recommended limitations on the employee's exposure to respirable crystalline Silica.

In addition, F.H. Paschen will obtain a written opinion from the Specialist within 30 days of the medical examination. The written opinion shall contain the following:

- The date of the examination;
- Any recommended limitations on the employee's use of respirators; and If the employee provides written authorization, the written opinion shall also contain any recommended limitations on the employee's exposure to Respirable Crystalline Silica.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
09/23/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER MARSH USA INC. 540 W. MADISON CHICAGO, IL 60661 Attn: chicago.CertRequest@marsh.com	CONTACT NAME: PHONE (A/C No. Ext): E-MAIL ADDRESS:		FAX (A/C No):																				
	<table border="1"> <thead> <tr> <th colspan="2">INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A : Zurich American Insurance Company</td> <td></td> <td>16535</td> </tr> <tr> <td>INSURER B : American Zurich Insurance Company</td> <td></td> <td>40142</td> </tr> <tr> <td>INSURER C : American Guarantee and Liability Insurance Company</td> <td></td> <td>26247</td> </tr> <tr> <td>INSURER D : Indian Harbor Insurance Company</td> <td></td> <td>36940</td> </tr> <tr> <td>INSURER E :</td> <td></td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> <td></td> </tr> </tbody> </table>			INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A : Zurich American Insurance Company		16535	INSURER B : American Zurich Insurance Company		40142	INSURER C : American Guarantee and Liability Insurance Company		26247	INSURER D : Indian Harbor Insurance Company		36940	INSURER E :			INSURER F :	
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COVERAGES **CERTIFICATE NUMBER:** CHI-008278084-18 **REVISION NUMBER:** 13

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			GLO 5833476-07	10/01/2019	10/01/2020	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			BAP5833474-07	10/01/2019	10/01/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED \$ RETENTION \$			SXS 0222911-03	10/01/2019	10/01/2020	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 2,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) if yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WC 5833475-07 (AOS) WC 5833477-07 (WI)	10/01/2019 10/01/2019	10/01/2020 10/01/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional / Pollution Liability			CE07420104-06 SIR: \$250,000	10/01/2019	10/01/2020	Each Act 5,000,000 Aggregate 5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Evidence of insurance

CERTIFICATE HOLDER F.H. Paschen S.N. Nielsen & Associates LLC Attn: Nick Bilski 5515 N East River Road Chicago, IL 60656	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE of Marsh USA Inc. Manashi Mukherjee <i>Manashi Mukherjee</i>
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ADDITIONAL REMARKS SCHEDULE

AGENCY MARSH USA INC.		NAMED INSURED F.H. Paschen S.N. Nielsen & Associates, LLC Attn: Nick Bilski 5515 N. East River Road Chicago, IL 60656	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

Umbrella Liability
 Insurer: XL Specialty Insurance Company
 Policy Number: US00076565LI19A
 Policy Period: 10/01/2019 - 10/01/2020
 Each Occurrence: \$25,000,000
 Aggregate: \$25,000,000
 SIR: \$10,000

First Layer Excess Liability
 Insurer: Endurance American Insurance Company
 Policy Number: EXC10004227006
 Policy Period: 10/01/2019 - 10/01/2020
 Each Occurrence: \$25,000,000
 Aggregate: \$25,000,000



Village of Tinley Park Contractor License

THIS LICENSE IS ISSUED SUBJECT TO THE TINLEY PARK
MUNICIPAL CODE AND SPECIFIC ORDINANCES AND IS NOT
TRANSFERABLE OR ASSIGNABLE

Expiration Date
2/3/2021

Issued Date
2/4/2020

License Number
C-014588

Contractor Type General Contractor

Bond Expiration 12/31/2020

F H PASCHEN - SN NIELSEN & ASSOCIATES LLC
5515 N EAST RIVER RD
CHICAGO, IL 60656

Kriston A. Thirion, Village Clerk

Jacob C. Vandenberg, Village President