



Lake County

Purchasing Division

<http://doingbusiness.lakecountyil.gov/>

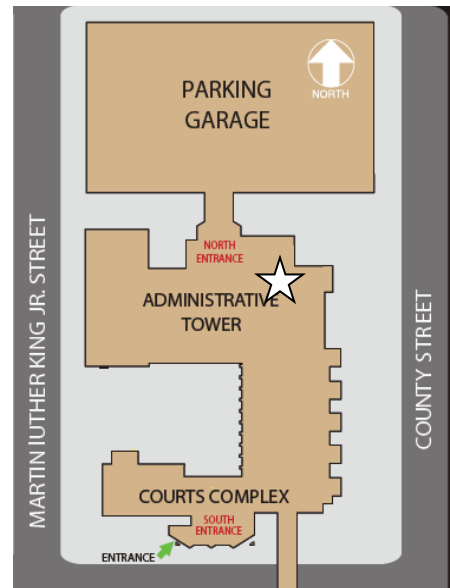
Waukegan Campus

Please note the submission location is:

Lake County
Attn: Purchasing Division
 18 N. County Street – 9th Floor
 Waukegan, IL 60085-4350

Contact information for Lake County Purchasing is:

Purchasing Division
 Phone 847-377-2992
 Fax 847-984-5889
 Email: purchasing@lakecountyil.gov



ALL SUBMITTALS SHOULD BE LABELED ACCORDINGLY. PLEASE USE BELOW LABEL FOR YOUR CONVENIENCE.

✂️

<u>BID No.</u> Bid #18104	Vendor Name: _____ Deliver to: Lake County ATTN: PURCHASING DIVISION 18 N. County Street – 9 th Floor Waukegan, IL 60085-4350
<u>Buyer</u> Yvette Albarran	
<u>Bid Description</u> Removal and Installation of the Salt Dome Conveyor for the Division of Transportation	
<u>BID Due Date*</u> June 28, 2018 at 2:00 p.m.	

*Please note: Responses are due at the 9th floor reception desk and shall be time stamped by 2:00 p.m. CST on the required due date. Please allow sufficient time for parking, passing through security and arriving at the 9th floor.



Lake County Purchasing Division
18 North County Street - Ninth Floor
Waukegan, Illinois 60085-4350
(847) 377-2992

E-Mail: purchasing@lakecountyil.gov

Access Bid Results:
<http://www.lakecountypurchasingportal.com/>

SUBMISSION INFORMATION

INVITATION: # 18104
BID OPENING DATE: June 28, 2018
TIME: 2:00 P.M. Local Time
LOCATION: Lake County
Purchasing Division
18 N. County St., 9th Floor
Waukegan, IL 60085-4350

Submit 1 original and 1 electronic copy on a CD or flash drive

ISSUANCE DATE: June 7, 2018
BUYER: Yvette Albarran

INVITATION TO BID VENDOR INFORMATION

COMPANY NAME: _____
ADDRESS: _____
CITY, STATE, ZIP CODE: _____

Removal and Installation of the Salt Dome Conveyor for the Division of Transportation

Item No.	Item Description	Unit of Measure	Amount
1.0	Removal and Installation of the Salt Dome Conveyor for the Division of Transportation per the attached plans and specifications. Delivery Time: _____	Lump Sum	\$
TOTAL BID AMOUNT			\$

A 10% security deposit must accompany the bid. The successful bidder must furnish a satisfactory performance bond and a payment bond each in the full amount of the bid.

All work performed under this contract shall be in accordance with the laws of the State of Illinois, including but not limited to the Illinois Employee Classification Act. This project is subject to the requirements of the Wage Determination of the Secretary of Labor. Lake County, in accordance with the laws of the State of Illinois, hereby notifies all bidders the work performed under this contract shall be in accordance with the provisions of the Illinois Prevailing Wage Act 820 ILCS 130 et seq.

Lake County, in accordance with the laws of the State of Illinois, hereby notifies all bidders that it will affirmatively insure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsive and responsible bidder without discrimination on grounds of race, color, or national origin.

NOTE TO BIDDERS: Any and all exceptions to these specifications MUST be clearly and completely indicated on the bid sheet. Attach additional pages if necessary. Please be advised that any exceptions to these specifications may cause your bid to be disqualified.

If a bid includes any exceptions, Bidders must insert an "X" in the following box indicating a bid submission with exceptions.

☐

All documents shall be properly signed and completed. Submit bids by **sealed bid only**. Fax and e-mail bids are not acceptable and will not be considered.

THE SECTION BELOW MUST BE COMPLETED IN FULL AND SIGNED

PROMPT PAYMENT DISCOUNT: _____ % _____ DAYS

The undersigned hereby certifies that they have read and understand the contents of this solicitation and agree to furnish at the prices shown any or all of the items above, subject to all instructions, conditions, specifications and attachments hereto. Failure to have read all the provisions of this solicitation shall not be cause to alter any resulting contract or to accept any request for additional compensation. By signing this bid document, the bidder hereby certifies that they are not barred from bidding on this contract as a result of a violation of either Section 33E-3 or 33E-4 of the Illinois Criminal Code of 1961, as amended.

Authorized Signature: _____

Company Name: _____

Typed/Printed Name: _____

Date: _____

Title: _____

Telephone Number: _____

E-mail: _____

Fax Number: _____

LAKE COUNTY - INVITATION FOR BIDS: TERMS AND CONDITIONS

1. **AUTHORITY.** This Invitation for Bids is issued pursuant to applicable provisions of the Lake County Purchasing Ordinance.
2. **BID OPENING.** Sealed bids will be received at the Lake County Purchasing Department until the date and time specified, at which time they shall be opened in public. Late bids shall be rejected and returned unopened to the sender. Lake County does not prescribe the method by which bids are to be transmitted; therefore, it cannot be held responsible for any delay, regardless of the reason, in transmission of the bids.
3. **BID PREPARATION.** Bids must be submitted on this form and all information and certifications called for must be furnished. Bids submitted in any other manner, or which fail to furnish all information or certificates required, may be summarily rejected. Bids may be modified or withdrawn prior to the time specified for the opening of bids. Bids shall be filled out legibly in ink or typewritten with all erasures, strike overs and corrections initialed in ink by the person signing the bid. The bid shall include the legal name of the bidder, the complete mailing address, and be signed in ink by a person or persons legally authorized to bind the bidder to a contract. Name of person signing should be typed or printed below the signature.
4. **BID ENVELOPES.** Envelopes containing bids must be sealed and addressed to the County of Lake Purchasing Division. The name and address of the bidder and the Invitation Number must be shown in the upper left corner of the envelope.
5. **ERRORS IN BIDS.** Bidders are cautioned to verify their bids before submission. Negligence on the part of the bidder in preparing the bid confers no right for withdrawal or modification of the bid after it has been opened. In case of error in the extension of prices in the bid, the unit prices will govern.
6. **RESERVED RIGHTS.** The County of Lake reserves the right at any time and for any reason to cancel this Invitation for Bids, accept or reject any or all bids or any portion thereof, or to accept an alternate bid. The County reserves the right to waive any immaterial defect in any bid. Unless otherwise specified by the bidder or the County, the County has ninety (90) days to accept. The County may seek clarification from any bidder at any time and failure to respond promptly is cause for rejection.
7. **INCURRED COSTS.** The County will not be liable for any costs incurred by bidders in replying to this Invitation for Bids.
8. **AWARD.** It is the intent of the County to award a contract to the lowest responsible bidder meeting specifications. The County reserves the right to determine the lowest responsible bidder on the basis of an individual item, groups of items, or in any way determined to be in the best interests of the County. Award will be based on the following factors (where applicable): (a) adherence to all conditions and requirements of the bid specifications; (b) price; (c) qualifications of the bidder, including past performance, financial responsibility, general reputation, experience, service capabilities, and facilities; (d) delivery or completion date; (e) product appearance, workmanship, finish, taste, feel, overall quality, and results of product testing; (f) maintenance costs and warranty provisions; and (g) repurchase or residual value.
9. **PRICING.** The price quoted for each item is the full purchase price, including delivery to destination, and includes all transportation and handling charges, premiums on bonds, material or service costs, patent royalties and all other overhead charges of every kind and nature. Unless otherwise specified, prices shall remain firm for the contract period.
10. **DISCOUNTS.** Prices quoted must be net after deducting all trade and quantity discounts. Where cash discounts for prompt payment are offered, the discount period shall begin with the date of receipt of a correct invoice or receipt or final acceptance of goods, whichever is later.
11. **TAXES.** Lake County is not subject to Federal Excise Tax. Per Illinois Compiled Statutes, 35 ILCS 120/2-5, Lake County is exempt from state and local taxes.
12. **SPECIFICATIONS.** Reference to brand names and numbers is descriptive, but not restrictive, unless otherwise specified. Bids on equivalent items will be considered, provided the bidder clearly states exactly what is proposed to be furnished, including complete specifications. Unless the bidder specified otherwise, it is understood the bidder is offering a referenced brand item as specified or is bidding as specified when no brand is referenced, and does not propose to furnish an "equal." The County reserves the right to determine whether a substitute offer is equivalent to and meets the standard of quality indicated by the brand name and number.
13. **SAMPLES.** Samples of items, when called for, must be furnished free of expense and, if not destroyed in the evaluation process, will, upon request, be returned at the bidder's expense. Request for the return of samples must accompany the sample and include UPS Pickup Slip, postage or other acceptable mode of return. Individual samples must be labeled with bidder's name, invitation number, item reference, manufacturer's brand name and number.
14. **INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS.** Bidders shall promptly notify the County of any ambiguity, inconsistency or error which they may discover upon examination of the bidding documents. Interpretations, corrections and changes will be made by addendum. Each bidder shall ascertain prior to submitting a bid that all addenda have been received and acknowledged in the bid.
15. **INDEMNIFICATION.** The Seller shall indemnify and hold harmless the County, its agents, officials, and employees from and against all injuries, losses, claims, suits, costs and expenses which may accrue against the County as a consequence of granting the Contract.
16. **DEFAULT.** Time is of the essence of this contract and if delivery of acceptable items or rendering of services is not completed by the time promised, the County reserves the right, without liability, in addition to its other rights and remedies, to terminate the contract by notice effective when received by Seller, as to stated items not yet shipped or services not yet rendered and to purchase substitute items or services elsewhere and charge the Seller with any or all losses incurred. The County shall be entitled to recover its attorney's fees and expenses in any successful action by the County to enforce this contract.
17. **INSPECTION.** Materials or equipment purchased are subject to inspection and approval at the County's destination. The County reserves the right to reject and refuse acceptance of items which are not in accordance with the instructions, specifications, drawings or data of Seller's warranty (express or implied). Rejected materials or equipment shall be removed by, or at the expense of, the Seller promptly after rejection.
18. **WARRANTY.** Seller warrants that all goods and services furnished hereunder will conform in all respects to the terms of this solicitation, including any drawings, specifications or standards incorporated herein, and that they will be free from latent and patent defects in materials, workmanship and title, and will be free from such defects in design. In addition, Seller warrants that said goods and services are suitable for, and will perform in accordance with, the purposes for which they are purchased, fabricated, manufactured and designed or for such other purposes as are expressly specified in this solicitation. The County may return any nonconforming or defective items to the Seller or require correction or replacement of the item at the time the defect is discovered, all at the Seller's risk and expense. Acceptance shall not relieve the Seller of its responsibility.
19. **REGULATORY COMPLIANCE.** Seller represents and warrants that the goods or services furnished hereunder (including all labels, packages and container for said goods) comply with all applicable standards, rules and regulations in effect under the requirements of all Federal, State and local laws, rules and regulations as applicable, including the Occupational Safety and Health Act as amended, with respect to design, construction, manufacture or use for their intended purpose of said goods or services. Seller shall furnish "Material Safety Data Sheets" in compliance with the Illinois Toxic Substances Disclosure to Employees Act.
20. **EQUAL EMPLOYMENT OPPORTUNITY.** Contractor shall comply with the Illinois Human Rights Act, 775 ILCS 5/1-101 et seq., as amended and any rules and regulations promulgated in accordance therewith, including, but not limited to the Equal Employment Opportunity Clause, Illinois Administrative Code, Title 44, Part 750 (Appendix A), which is incorporated herein by reference. Furthermore, the Contractor shall comply with the Public Works Employment Discrimination Act, 775 ILCS 10/0.01 et seq., as amended.
21. **ROYALTIES AND PATENTS.** Seller shall pay all royalties and license fees. Seller shall defend all suits or claims for infringement of any patent, copyright or trademark rights and shall hold the County harmless from loss on account thereof.
22. **LAW GOVERNING.** This contract shall be governed by and construed according to the laws of the State of Illinois. Jurisdiction and venue shall be found exclusively in the 19th Judicial Circuit Court, State of Illinois.

Removal and Installation of the Salt Dome Conveyor for the Division of Transportation

GENERAL TERMS AND CONDITIONS

June 2018

1. OVERVIEW

It is the intent of Lake County to contract for services from a qualified contractor to provide all labor and materials to provide for the removal and demolition of the existing dome and installation of the 24-inch salt dome loading belt conveyor to be mounted inside a salt/sand storage dome for the Division of Transportation.

2. WORK INCLUDED

Demolition and rubbish removal included but is not limited to:

- a. Removal of existing dome roof structure
- b. Removal of all debris
- c. Removal of miscellaneous items
- d. Dust control

Cast In Place Concrete included but is not limited to:

- a. Footing – foundations
- b. Exterior flat work

Rough Carpentry included but is not limited to:

- a. All wood, nails, bolts, screws, framing anchors and other rough hardware, and all other items needed for rough carpentry in this work but not specifically described in other sections of these specifications

Dampproofing and Vapor Retarders included but is not limited to:

- a. Prepare and prime surfaces for receive dampproofing
- b. Apply bituminous dampproofing on perimeter foundation walls at conveyor pit
- c. Seal/caulk joints and protrusions through dampproofing
- d. Waterstops
- e. Under slab vapor retarders

Shingles included but is not limited to:

- a. Shingle roofing required for this work is indicated on the drawings and includes, but necessarily limited to asphalt shingle roofing, underlayment, eaves, valley, and ridge protection at the new conveyor dormer and infill of the existing dormer

24-inch Dome Loading Conveyor included but is not limited to:

- a. The contractor shall design and supply a new electric powered, dome loading conveyor system including below grade hopper as specified herein. Supply shall include:
 - I. Below gate hopper with control gate
 - II. Skirt boards
 - III. Conveyor covers where the conveyor runs exterior to the dome
 - IV. Conveyor drive with electric motor
 - V. First fill of lubricants and greases of the system
 - VI. The contractor shall be solely responsible for the design, fabrication and supply of the equipment. The contractor shall coordinate all work with the various suppliers and ascertain that all components are put together in as a complete workable unit. Conveyor manufacturer shall coordinate with dome manufacturer to insure that the structural integrity of the dome is not compromised by the installation of the conveyor.

3. SUBMISSION OF BIDS

Bids will be accepted until **2:00 p.m. local time, June 28, 2018**, at the Lake County Purchasing Division, 18 North County Street, 9th Floor; Waukegan, IL 60085-4350. Each bid must include the following completed and signed forms and submissions:

- a. One (1) original "Invitation to Bid" including signed forms, Bid Sheet.
- b. One (1) electronic copy of the complete bid submission, on a CD or flash drive.
- c. Compliance with Specifications Sheet, with compliance to each specification section indicated.
- d. One (1) Value Added sheet, if necessary.
- e. One (1) worksheet detailing line item pricing for lump sum bid amount.
- f. One (1) Addendum Acknowledgement, if appropriate.

- g. One (1) Contractor Qualification Form.
- i. Bidders shall complete and submit a Statement of Sustainability to ensure bidders are incorporating sustainability into their firm's practices. Appendix A is included herein for this purpose.
- j. One (1) Reference Sheet.
- k. Product literature and manufacturer's specifications for all items bid.

4. PRODUCT SUPPLIED

All equipment will be new (recent manufacture or manufactured for this contract) and unused, first quality only. Equipment supplied will conform in quality, construction, fit for intended use and meet all industry standards for the intended use as specified herein. Please include product descriptive literature and specification sheets with the bid submission.

5. AWARD

Award will be made to the lowest responsive and responsible bidder, for the Total Bid Amount, who best meets the evaluation criteria specified herein. Pursuant to the Lake County Purchasing Ordinance Lake County reserves the right to evaluate bids based on criteria to determine such as inspection, testing, quality, workmanship, experience, past performance, financial stability, delivery and suitability for a particular purpose.

6. COMPLETION

The Work will be substantially completed within sixty (60) of start of construction.

7. BID SECURITY

Each bid shall be accompanied by a Bid Security in the form of a certified check, an irrevocable letter of credit or bid bond in an amount equal to at least ten (10%) percent of the Total Bid Price, payable without condition to the Owner, as a guaranty that the Bidder, if awarded the Contract, will promptly execute the Agreement in accordance with the Bidding Documents. Cashier's checks will be deposited and re-issued (without interest) upon receipt of performance and payment bonds.

8. CONTRACT PERFORMANCE AND PAYMENT BONDS

The successful Contractor shall furnish within ten (10) calendar days after being notified of the acceptance of bid:

- a. A performance bond satisfactory to the County, executed by a surety company authorized to do business in the State of Illinois, in an amount equal to 100 percent (100%) of the contract price as security for the faithful performance of the contract; and
- b. A payment bond satisfactory to the County, executed by a surety company authorized to do business in the State of Illinois, for the protection of all persons supplying labor and materials to the Contractor or Subcontractors for the performance of work provided for in the contract, in an amount equal to 100 percent (100%) of the contract price.
- c. Documents required by this section must be received and approved by the Owner before a written contract will be issued.

9. LIQUIDATED DAMAGES

The Contractor recognizes that time is of the essence of this contract and Lake County will suffer financial consequences if the contract is not completed within the time specified in Section 6. They also recognize the delays, expense and difficulties involved in proving in a legal or arbitration proceeding the actual loss (including special, indirect, consequential, incidental and any other losses or damages) suffered by Lake County if the contract is not completed on time. Accordingly, instead of requiring any such proof of losses or damages, Lake County and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay Lake County Seven Hundred Fifty Dollars (\$750) for each day that expires after the time specified in Section 6 for completion of the contract.

10. EVALUATION CRITERIA AND CONTRACTOR'S QUALIFICATIONS

All bidders must be qualified contractors and demonstrate the capability to provide services required in accordance with the bid specifications. The following criteria will be considered in selecting a successful bidder. The County reserves the right to consult references, financial statements and any other resources to determine capability of the bidder. Bids shall be evaluated as follows (not listed in order of priority):

- Bid pricing
- Providing similar service to other organizations of similar size for a minimum of five (5) years
- Compliance with bid specifications
- Financial capability
- Years in business
- Value-added services

11. PRECEDENCE

Where there appears to be variances or conflicts, the following order of precedence shall prevail: Lake County Specifications; Lake County General Terms & Conditions, Lake County Invitation for Bids General Terms & Conditions and the Contractor's Bid Response.

12. BID PRICE

Pricing is to be submitted for the provision and delivery of all equipment as per specifications. The bid price shall be the net price charged per item; F. O. B. delivered, freight prepaid and included in the bid price to Lake County, including all discounts.

The price bid for each item is the full purchase price, including delivery to destination, and shall include all labor, and equipment used in delivery, and includes but is not limited to:

- All transportation charges to and from destination.
- All premiums on insurance, bonds, material or service costs.
- All current or future surcharges on fuel or any other commodity.
- All other overhead charges of every kind and nature

13. DELIVERY CONDITIONS

All Items shall be shall be F.O.B. Destination. The term F.O.B. Destination shall mean delivered and unloaded at delivery sites within Lake County, designated by Public Works, with all charges for transportation and unloading paid by the Contractor. Any claim for loss or damage shall be between the Contractor and the carriers.

14. INVOICES AND PAYMENTS

The Contractor shall submit an invoice(s) detailing the services and products provided in accordance with the payment provisions of this contract. Invoice shall show the purchase order number and the address where the product or service was provided. Payment shall be made in accordance with the Local Government Prompt Payment Act.

15. BID REVIEW

After bid submittal, bids may be subjected to subsequent review. Lake County reserves the right to conduct follow up reference checks, request additional information or perform other activities related to comprehensive bid review and determination of the lowest responsive and responsible bidder who best meets the specifications.

16. NON-ENFORCEMENT BY THE COUNTY

The Contractor shall not be excused from complying with any of the requirements of the contract because of any failure on the part of the County, on any one or more occasions, to insist on the Contractor's performance or to seek the Contractor's compliance with any one or more of said terms or conditions.

17. REFERENCES

Contractor shall provide customer references, contractor and sub-contractor qualifications, and equipment capability on the forms that follow. Each bidder must demonstrate at least five (5) years' prior experience, as a full-time firm, continuously and actively engaged in Fire Hydrant sales. Please provide a list of customers with a volume equal to the County's estimate, customers with multi-site hydrant locations, and service comparable to Lake County.

NOTE: All bidders must complete the attached Contractor Qualifications, Subcontractor Information, Equipment Capability and Reference forms included herein. Completed forms must be submitted with your bid.

18. UNBALANCED BIDDING

Bidders shall not submit a bid, which contains irregularities of any kind, including unbalanced bids. By an unbalanced bid, it is meant that one or more separate items are substantially out of line with the price for other comparable items. The County reserves the right not to award any items whose unit discount rates appear excessive or unbalanced.

19. TERMINATION

The County reserves the right to terminate this contract, or any part of this contract, upon thirty (30) days written notice. In case of such termination, the Contractor shall be entitled to receive payment from the County for work completed to date in accordance with the terms and conditions of this contract. In the event that this Contract is terminated due to Contractor's default, the County shall be entitled to purchase substitute items and/or services elsewhere and charge the Contractor with any or all losses incurred, including attorney's fees and expenses.

20. CHANGE IN STATUS

The Contractor shall notify Lake County immediately of any change in its status resulting from any of the following: (a) vendor is acquired by another party; (b) vendor becomes insolvent; (c) vendor, voluntary or by operation law, becomes subject to the provisions of any chapter of the Bankruptcy Act; (d) vendor ceases to conduct its operations in normal course of business. Lake County shall have the option to terminate its contract with the vendor on 15 days written notice based on any such change in status.

21. MOST FAVORED CUSTOMER

The Contractor guarantees that the prices covered by this contract shall be the lowest prices offered to any customer for similar goods/services during the period of this contract. If the Contractor offers lower prices or new rate plans for similar goods/services to any other customer during the contract period, then these lower prices shall be offered to Lake County, and the contract shall be modified accordingly.

22. RESERVED RIGHTS

Lake County reserves the right to cancel this Invitation for Bid at any time, to reject any and all bids for any reason, to accept an alternate bid, to waive any informalities or exceptions in the bid and to award on a collective or individual item basis.

23. HOLD HARMLESS CLAUSE

The Contractor agrees to indemnify, save harmless and defend Lake County, its agents, servants, employees, and each of them against and hold it and them harmless from any and all lawsuits, claims, demands, liabilities, losses, and expenses; including court costs and attorney's fees for or on account of any injury to any person, or any death at any time resulting from such injury, or any damage to property, which may arise or which may be alleged to have arisen out of, or in connection with the work covered by this project. The foregoing indemnity shall apply except if such injury is caused directly by the willful and wanton conduct of Lake County, its agents, servants, or employees or any other person indemnified hereafter.

24. INSURANCE

All Contracts may be subject to change

The contractor must obtain, for the Contract term and any extension of it, insurance issued by a company or companies qualified to do business in the State of Illinois with an A.M. Best Rating of at least A-and provide the County with a Certificate of Insurance 15 days before the start of the project, and thereafter annually for contracts/ projects that will last more than one year. Insurance in the following types and amounts is necessary and/or where applicable:

Workers Compensation (Coverage A) and Employers Liability (Coverage B)

Workers Compensation Insurance covering all liability of the Contractor arising under the Worker's Compensation Act and Worker's Occupational Disease Act at limits in accordance with the laws of the State of Illinois. Employers' Liability Insurance shall be maintained to respond to claims for damages because of bodily injury, occupational sickness, or disease or death of the Contractor's employees, with limits listed below:

Employers Liability

- a) Each Accident \$1,000,000
- b) Disease-Policy Limit \$1,000,000
- c) Disease-Each Employee \$1,000,000

Such Insurance shall contain a waiver of subrogation in favor of Lake County.

Commercial General Liability Insurance

In a broad form on an occurrence basis shall be maintained, to include, but not be limited to, coverage for property damage, bodily injury (including death), personal injury and advertising injury in the following coverage forms where exposure exists:

- Premises and Operations
- Independent Contractors
- Products/Completed Operations
- Liability assumed under an Insured Contract/ Contractual Liability
- Personal Injury and Advertising Injury

With limits of liability not less than:

- \$ 1,000,000 Each Occurrence
- \$ 1,000,000 Products-Completed Operations
- \$ 1,000,000 Personal and Advertising injury limit

\$ 2,000,000 General aggregate; the CGL policy shall be endorsed to provide that the General Aggregate limit applies separately to each of the contractor's projects away from premises owned or rented to contractor.

Automobile Liability Insurance

Automobile liability insurance shall be maintained to respond to claims for damages because of bodily injury, death of a person, or property damage arising out of ownership, maintenance, or use of a motor vehicle. This policy shall be written to cover any auto whether owned, leased, hired, or borrowed.

The Contractor's auto liability insurance, as required above, shall be written with limits of insurance not less than the following:

\$ 1,000,000 Combined single Limit (Each Accident)

Contractor agrees that with respect to the above required insurance:

- a) The CGL policy shall be endorsed for the general aggregate to apply on a "per Project" basis;
- b) The Contractor's insurance shall be primary in the event of a claim.
- c) Contractor agrees that with respect to the above required insurance, Lake County shall be named as additional insured, including its agents, officers, and employees and be provided with thirty (30) days notice, in writing by endorsement, of cancellation or material change;
- d) Lake County shall be provided with Certificates of Insurance and endorsements evidencing the above required insurance, prior to commencement of this Contract and thereafter with certificates evidencing renewals or replacements of said policies of insurance at least thirty (30) days prior to the expiration of cancellation of any such policies. Said Notices and Certificates of Insurance shall be provided to:

**Lake County
Purchasing Division
18 N. County 9th Floor
Waukegan, Illinois 60085
Attn: RuthAnne Hall, Lake County Purchasing Agent**

Failure to Comply: In the event the Contractor fails to obtain or maintain any insurance coverage required under this agreement, the Lake County may purchase such insurance coverage and charge the Expense thereof to the Contractor.

25. INDEPENDENT CONTRACTOR

The Contractor is an independent contractor and no employee or agent of the Contractor shall be deemed for any reason to be an employee or agent of Lake County.

26. NON-ENFORCEMENT BY THE COUNTY

The Contractor shall not be excused from complying with any of the requirements of the Contract because of any failure on the part of the County, on any one or more occasions, to insist on the Contractor's performance or to seek the Contractor's compliance with any one or more of said terms or conditions.

27. JOINT PURCHASING

The purchase of goods and services pursuant to the terms of this Contract shall also be offered for purchases to be made by other governmental units, as authorized by the Governmental Joint Purchasing Act, 30 ILCS 525/0.01, et seq. (the "Act"). All purchases and payments made under the Act shall be made directly by and between each governmental unit and the successful bidder. The bidder agrees that Lake County shall not be responsible in any way for purchase orders or payments made by the other governmental units. The bidder further agrees that all terms and conditions of this Contract shall continue in full force and effect as to the other governmental units during extended terms. The credit or liability of each governmental unit shall remain separate and distinct. Disputes between bidders and governmental units shall be resolved between the immediate parties.

The bidder and the other governmental units may negotiate such other and further terms and conditions to this Contract ("Other Terms") as individual projects may require. To be effective, Other Terms shall be reduced to writing and signed by a duly authorized representative of both the successful bidder and the other governmental unit.

The bidder shall provide the other governmental units with all required documentation set forth in the solicitation including but not limited to: performance and payment bonds, Certificates of Insurance naming the respective governmental unit as an additional insured and certified payrolls to the other governmental unit as required.

28. ECONOMIC OPPORTUNITY PROGRAM

Lake County launched a **Buy Local. Build Local. Work Local.** initiative in 2013 to increase the outreach and procurement opportunities for businesses located within Lake County, including women-owned businesses and minority-owned business enterprises (L/W/MBE). The overarching objective is to maximize participation from these businesses in the County's procurement process, in accordance with applicable law. The County will take all necessary and reasonable steps to assure that business enterprises defined as L/W/MBE shall have a fair opportunity to participate in County contracts. As part of its Economic Opportunity Program (EOP) commitment the County will make every effort to achieve the following objectives:

- (a) To ensure nondiscrimination in the award and administration of contracts;
- (b) To create a level playing field on which L/W/MBEs can compete fairly for contracts by providing any necessary training and assistance in bid preparation;
- (c) To ensure that the County's EOP is narrowly tailored in accordance with applicable law;
- (d) To establish a means for firms identifying themselves as L/W/MBEs to register for procurement opportunities and work cooperatively with contracted firms to report on measures that demonstrates the County's commitment to its EOP; and,
- (e) To help remove barriers to the participation of L/W/MBEs through notification of contract opportunities.

Successful bidders are encouraged to work with Workforce Development to post any and all opportunities for employment on County contracts. Lake County's Workforce Development mission is to foster and ensure the economic prosperity of the Lake County community by maximizing the potential of businesses and workers. As such, Workforce Development provides a key resource for job seekers and employers.

State law mandates an open and competitive bidding process and requires that publicly procured contracts be awarded to the lowest responsible and responsive bidder with no demonstrated preference based on the bidder's location, race and gender.

29. REPORTING REQUIREMENTS FOR AWARDED CONTRACTS

All awarded vendors will identify and report the type of ownership— L/W/MBE, and/or not L/W/MBE for any work that they or their approved subcontractors will perform. In addition, Lake County requests that all awarded vendors provide an accounting of employees assigned throughout the term of the contract in regards to their home address and ethnicity. Lake County may use any data collected to report on potential of businesses and workers benefitting from County contracts.

30. SUSTAINABILITY STATEMENT

Lake County is committed to green and sustainable practices and good environmental stewardship. Consequently, we are asking bidders to provide a Statement of Sustainability to ensure our bidders are also incorporating sustainability into their firms' practices. Please complete Appendix A, included herein, and include it with the bidder's submission.

31. ADDITIONAL INFORMATION

Should the bidder require additional information about this bid, please submit questions on our website at <http://lakecountypurchasingportal.com> by selecting the bid number and addendum link. Questions may also be submitted via email to purchasing@lakecountyl.gov. All questions shall be submitted no less than seven (7) days prior to the bid opening date. ANY and ALL changes to these specifications are valid only if included in an addendum issued by Lake County Purchasing. No interpretation of the meaning of the plans, specifications or other contract documents will be made orally. Failure of any bidder to receive any such addendum or interpretation shall not relieve the bidder from obligation under this bid as submitted. All addenda as issued shall become part of the bid documents. Failure to request an interpretation constitutes a waiver to later claim that ambiguities or misunderstandings caused a bidder to improperly submit a bid.

32. ADDENDUM ACKNOWLEDGEMENT

Any and all changes to the specifications, terms, and conditions of this Bid are valid only if they are included by addendum issued by Lake County Purchasing. Bidders shall acknowledge addenda by signing the enclosed Addendum Acknowledgement form. It is the vendor's responsibility to check for addendums, posted on the website at <http://lakecountypurchasingportal.com> prior to the submittal due date. No notification will be sent when addendums are posted unless there is an addendum within three business days of the submittal due date.

33. EQUALITY

In cases where an item is identified by manufacturer's name, it is understood that the Contractor proposes to furnish the item so identified and does not propose to furnish a substitute unless the proposed product is definitely indicated therein by the Contractor. Any additions, deletions, or variations from the following specifications must be noted clearly on the bid exactly as to what the deletions or variations are. Any item appearing in the Contractor's regular published specifications is assumed to be included in the

Contractor's proposal. The reference above to the trade name is intended to be descriptive, but not restrictive, and only to indicate to the respective Contractor a unit that will be satisfactory.

Lake County hereby reserves the right to approve as an equal, or to reject as not being an equal, any product the Contractor proposes to furnish which contains variations or deletions from these specifications.

34. LABOR STATUTES, RECORDS AND RATES

The following enclosed documents shall be a part of the Contract Documents for this project:

1. "Labor Statutes, Records and Rates.
2. "Prevailing Wages for Construction Trades," as issued monthly by the Illinois Department of Labor.

LABOR STATUTES, RECORDS AND RATES CONSTRUCTION CONTRACTS for LAKE COUNTY - STATE OF ILLINOIS

All Contractors shall familiarize themselves with all provisions of all Acts referred to herein and in addition shall make an investigation of labor conditions and all negotiated labor agreements which may exist or are contemplated at this time. Nothing in the Acts referred to herein shall be construed to prohibit the payment of more than the prevailing wage scale.

In the employment and use of labor, the Contractor and any subcontractor of the Contractor shall conform to all Illinois Constitutional and statutory requirements including, but not limited to, the following:

1.0 Equal Employment Opportunity:

1.1 Illinois Constitution, Article I, Section 17, which provides: "All persons shall have the right to be free from discrimination on the basis of race, color, creed, national ancestry and sex in the hiring and promotion practices of any employer or in the sale or rental of property."

1.2 Illinois Constitution, Article I, Section 18, which provides: "The equal protection of the laws shall not be denied or abridged on account of sex by the state of its units of local government and school districts."

1.3 The Public Works Employment Discrimination Act, 775 ILCS 10/1, provides in substance that no person may be refused or denied employment by reason of unlawful discrimination, nor may any person be subjected to unlawful discrimination in any manner in connection with contracting for or performance of any work or service of "any kind by, for, on behalf of, or for the benefit of the State, or of any department, bureau, commission, board or other political subdivision or agency thereof."

1.4 Contractor shall comply with the Illinois Human Rights Act, 775 ILCS 5/1-101 et seq., as amended and any rules and regulations promulgated in accordance therewith, including, but not limited to the Equal Employment Opportunity Clause, Illinois Administrative Code, Title 44, Part 750 (Appendix A), which is incorporated herein by reference. Furthermore, the Contractor shall comply with the Public Works Employment Discrimination Act, 775 ILCS 10/0.01 et seq., as amended.

2.0 The Veterans Preference Act, 330 ILCS 55/1, provides: "In the employment and appointment to fill positions in the construction, addition to, or alteration of all public works undertaken or contracted for by the State, or any of its political subdivisions thereof, preference shall be given to persons who have been members of the Armed Forces of the United States...in times of hostilities with a foreign country..."

3.0 The Servicemen's Employment Tenure Act, as amended, 330 ILCS 60/2, "safeguarding the employment and the rights and privileges inhering in the employment contract, of servicemen."

4.0 The Prevailing Wage Act, 820 ILCS 130/1 et seq., provides: "It is the policy of the State of Illinois that a wage of no less than the general prevailing hourly rate as paid for work of a similar character in the locality in which the work is performed, shall be paid to all laborers, workers and mechanics employed by or on behalf of any and all public bodies engaged in public works." The current Schedule of Prevailing Wages for Lake County is enclosed and must be prominently posted at the project site by the Contractor.

4.1 The Prevailing Wage Act, 820 ILCS 130/4, provides: "All bid specifications shall list the specified rates to all laborers, workers and mechanics in the locality for each craft or type of worker or mechanic needed to execute the contract. If the Department of Labor revises the prevailing rate of hourly wages to be paid by the public body, the revised rate shall apply to such contract, and the public body shall be responsible to notify the Contractor and each subcontractor of the revised rate."

4.1.1 The County shall notify the Contractor of any revised rates as determined by the Department of Labor and as received by the County. It shall be the responsibility and liability of the Contractor to promptly notify each and every subcontractor of said revised rates.

4.1.2 Unless otherwise specified in the Contract Documents, the Contractor shall assume all risks and responsibility for any changes to the prevailing hourly wage which may occur during the Contract Time. A revision to the prevailing rate of hourly wages shall not be cause for any adjustment in the Contract Sum.

4.2 The Prevailing Wage Act, 820 ILCS 130/5 provides that the Contractor and each Sub Contractor shall, "submit monthly, in person, by mail or electronically a certified payroll to the public body in charge of the project."

4.2.1 The Contractor shall submit to the County by tenth day, monthly, a certified payroll list including all workers, laborers and mechanics employed by the Contractor and each of the Sub Contractors.

4.2.2 The certified payroll records shall include each worker's name, address, telephone number, social security number, classification, number of hours worked each day, the hourly wage and starting and ending times each day.

4.2.3 Included with the payroll records, the Contractor and each Sub Contractor shall attest, in writing, to the veracity and accuracy of the records and that the hourly rate paid is not less than the general prevailing wages required.

5.0 The Child Labor Law, as amended, 820 ILCS 205/1, which provides: "No minor under 16 years of age...at any time shall be employed, permitted or suffered to work in any gainful occupation...in any type of construction work within this state."

The Contractor will include verbatim or by reference the provisions contained herein in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. The Contractor will be liable for compliance with these provisions by such subcontractors.

The Contractor and each subcontractor shall keep or cause to be kept an accurate record of names, occupations and actual wages paid to each laborer, workman and mechanic employed by him in connection with the contract. This record shall be open at all reasonable hours for inspection by any representative of the County or the Illinois Department of Labor and must be preserved for four (4) years following completion of the contract.

**Prevailing Wage rates for
Lake County effective
Sept. 1, 2017**

Trade Title	Region	Type	Class	Base Wage	Fore- man Wage	M-F OT	OSA	OSH	H/W	Pension	Vacation	Training
ASBESTOS ABT-GEN	ALL	ALL		41.20	42.20	1.5	1.5	2	14.65	12.32	0.00	0.50
ASBESTOS ABT-MEC	ALL	BLD		37.46	39.96	1.5	1.5	2	11.62	11.06	0.00	0.72
BOILERMAKER	ALL	BLD		48.49	52.86	2	2	2	6.97	19.61	0.00	0.90
BRICK MASON	ALL	BLD		45.38	49.92	1.5	1.5	2	10.45	16.68	0.00	0.90
CARPENTER	ALL	ALL		46.35	48.35	1.5	1.5	2	11.79	18.87	0.00	0.63
CEMENT MASON	ALL	ALL		44.98	46.98	2	1.5	2	10.00	20.88	0.00	0.50
CERAMIC TILE FNSHER	ALL	BLD		38.56	38.56	1.5	1.5	2	10.65	11.18	0.00	0.68
COMMUNICATION TECH	ALL	BLD		36.54	38.94	1.5	1.5	2	11.72	13.23	2.17	0.55
ELECTRIC PWR EQMT OP	ALL	ALL		0.00	0.00	0	0	0	0.00	0.00	0.00	0.00
ELECTRIC PWR EQMT OP	ALL	HWY		41.45	56.38	1.5	1.5	2	5.50	12.87	0.00	0.73
ELECTRIC PWR GRNDMAN	ALL	ALL		30.33	53.29	1.5	1.5	2	5.00	9.40	0.00	0.30
ELECTRIC PWR GRNDMAN	ALL	HWY		32.00	56.38	1.5	1.5	2	5.50	9.92	0.00	0.66
ELECTRIC PWR LINEMAN	ALL	ALL		45.36	51.48	1.5	1.5	2	5.00	14.06	0.00	0.45
ELECTRIC PWR LINEMAN	ALL	HWY		49.67	56.38	1.5	1.5	2	5.50	15.40	0.00	0.88
ELECTRIC PWR TRK DRV	ALL	ALL		30.34	51.48	1.5	1.5	2	5.00	9.40	0.00	0.30
ELECTRIC PWR TRK DRV	ALL	HWY		33.14	56.38	1.5	1.5	2	5.50	10.29	0.00	0.59
ELECTRICIAN	ALL	BLD		40.00	44.00	1.5	1.5	2	14.10	19.74	4.00	0.65
ELEVATOR CONSTRUCTOR	ALL	BLD		51.94	58.43	2	2	2	14.43	14.96	4.16	0.90
FENCE ERECTOR	ALL	ALL		39.58	41.58	1.5	1.5	2	13.40	13.90	0.00	0.40
GLAZIER	ALL	BLD		42.45	43.95	1.5	1.5	2	14.04	20.14	0.00	0.94
HT/FROST INSULATOR	ALL	BLD		50.50	53.00	1.5	1.5	2	12.12	12.96	0.00	0.72
IRON WORKER	ALL	ALL		47.33	49.33	2	2	2	14.15	22.39	0.00	0.35
LABORER	ALL	ALL		41.20	41.95	1.5	1.5	2	14.65	12.32	0.00	0.50
LATHER	ALL	ALL		46.35	48.35	1.5	1.5	2	11.79	18.87	0.00	0.63
MACHINIST	ALL	BLD		45.35	47.85	1.5	1.5	2	7.26	8.95	1.85	0.00

MARBLE FINISHERS	ALL	ALL		33.95	33.95	1.5	1.5	2	10.45	15.52	0.00	0.47
MARBLE MASON	ALL	BLD		44.63	49.09	1.5	1.5	2	10.45	16.28	0.00	0.59
MATERIAL TESTER I	ALL	ALL		31.20	31.20	1.5	1.5	2	14.65	12.32	0.00	0.50
MATERIALS TESTER II	ALL	ALL		36.20	36.20	1.5	1.5	2	14.65	12.32	0.00	0.50
MILLWRIGHT	ALL	ALL		46.35	48.35	1.5	1.5	2	11.79	18.87	0.00	0.63
OPERATING ENGINEER	ALL	BLD	1	50.10	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD	2	48.80	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD	3	46.25	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD	4	44.50	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD	5	53.85	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD	6	51.10	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD	7	53.10	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	FLT	1	55.90	55.90	1.5	1.5	2	18.05	13.60	1.90	1.30
OPERATING ENGINEER	ALL	FLT	2	54.40	55.90	1.5	1.5	2	18.05	13.60	1.90	1.30
OPERATING ENGINEER	ALL	FLT	3	48.40	55.90	1.5	1.5	2	18.05	13.60	1.90	1.30
OPERATING ENGINEER	ALL	FLT	4	40.25	55.90	1.5	1.5	2	18.05	13.60	1.90	1.30
OPERATING ENGINEER	ALL	FLT	5	57.40	55.90	1.5	1.5	2	18.05	13.60	1.90	1.30
OPERATING ENGINEER	ALL	FLT	6	38.00	55.90	1.5	1.5	2	18.05	13.60	1.90	1.30
OPERATING ENGINEER	ALL	HWY	1	48.30	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY	2	47.75	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY	3	45.70	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY	4	44.30	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY	5	43.10	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY	6	51.30	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY	7	49.30	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
ORNAMNTL IRON WORKER	ALL	ALL		46.75	49.25	2	2	2	13.90	19.79	0.00	0.75
PAINTER	ALL	ALL		45.55	51.24	1.5	1.5	1.5	11.56	11.44	0.00	1.87
PAINTER SIGNS	ALL	BLD		37.45	42.05	1.5	1.5	2	2.60	3.18	0.00	0.00
PILEDRIIVER	ALL	ALL		46.35	48.35	1.5	1.5	2	11.79	18.87	0.00	0.63
PIPEFITTER	ALL	BLD		47.50	50.50	1.5	1.5	2	10.05	17.85	0.00	2.12

PLASTERER	ALL	BLD		44.85	44.85	2	1.5	2	10.00	21.18	0.00	0.50
PLUMBER	ALL	BLD		49.25	52.20	1.5	1.5	2	14.34	13.35	0.00	1.28
ROOFER	ALL	BLD		42.30	45.30	1.5	1.5	2	9.08	12.14	0.00	0.58
SHEETMETAL WORKER	ALL	BLD		43.50	46.98	1.5	1.5	2	11.03	23.43	0.00	0.78
SIGN HANGER	ALL	BLD		31.31	33.81	1.5	1.5	2	4.85	3.28	0.00	0.00
SPRINKLER FITTER	ALL	BLD		47.20	49.20	1.5	1.5	2	12.25	11.55	0.00	0.55
STEEL ERECTOR	ALL	ALL		42.07	44.07	2	2	2	13.45	19.59	0.00	0.35
STONE MASON	ALL	BLD		45.38	49.92	1.5	1.5	2	10.45	16.68	0.00	0.90
TERRAZZO FINISHER	ALL	BLD		40.54	40.54	1.5	1.5	2	10.65	12.76	0.00	0.73
TERRAZZO MASON	ALL	BLD		44.38	47.88	1.5	1.5	2	10.65	14.15	0.00	0.82
TILE MASON	ALL	BLD		45.49	49.49	1.5	1.5	2	10.65	13.88	0.00	0.86
TRAFFIC SAFETY WRKR	ALL	HWY		32.75	34.35	1.5	1.5	2	8.45	6.05	0.00	0.50
TRUCK DRIVER	ALL	ALL	1	37.05	37.60	1.5	1.5	2	9.50	7.50	0.00	0.15
TRUCK DRIVER	ALL	ALL	2	37.20	37.60	1.5	1.5	2	9.50	7.50	0.00	0.15
TRUCK DRIVER	ALL	ALL	3	37.40	37.60	1.5	1.5	2	9.50	7.50	0.00	0.15
TRUCK DRIVER	ALL	ALL	4	37.60	37.60	1.5	1.5	2	9.50	7.50	0.00	0.15
TUCKPOINTER	ALL	BLD		45.42	46.42	1.5	1.5	2	8.32	15.42	0.00	0.80

Legend

M-F OT Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.

OSA Overtime pay required for every hour worked on Saturdays

OSH Overtime pay required for every hour worked on Sundays and Holidays

H/W Health/Welfare benefit

Explanations LAKE COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATION TECHNICIAN

Low voltage construction, installation, maintenance and removal of telecommunication facilities (voice, sound, data and video) including outside plant, telephone, security systems and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area network), LAN (local area networks), and ISDN (integrated system digital network), pulling of wire in raceways, but not the installation of raceways.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under; Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Prime Mover; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum;

Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines; ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types; Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.;

Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEER - FLOATING

Class 1. Craft Foreman; Master Mechanic; Diver/Wet Tender; Engineer; Engineer (Hydraulic Dredge).

Class 2. Crane/Backhoe Operator; Boat Operator with towing endorsement; Mechanic/Welder; Assistant Engineer (Hydraulic Dredge); Leverman (Hydraulic Dredge); Diver Tender.

Class 3. Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more); Tug/Launch Operator; Loader/Dozer and like equipment on Barge, Breakwater Wall, Slip/Dock, or Scow, Deck Machinery, etc.

Class 4. Deck Equipment Operator, Machineryman/Fireman (4 Equipment Units or More); Off Road Trucks; Deck Hand, Tug Engineer, Crane Maintenance (50 Ton Capacity and Under) or Backhoe Weighing (115,000 pounds or less); Assistant Tug Operator.

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

TRAFFIC SAFETY - work associated with barricades, horses and drums used to reduce lane usage on highway work, the installation and removal of temporary lane markings, and the installation and removal of temporary road signs.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".

VALUE ADDED SERVICES

Please list any **Value Added Services** your company may provide on the sheet provided herein. Please use additional pages as needed.

[illegible]



Addendum Acknowledgement Bid #18104

The undersigned acknowledges receipt of the following addendum(s):

ADDENDUM #	SIGNATURE

I have examined and carefully prepared the submittal documentation in detail before submitting my response to Lake County.

Submittal Number:	18104
Company Name:	
Authorized Representative:	
Authorized Representative:	<i>Signature</i>
	<i>Print</i>
Date:	

It is the vendor's responsibility to check for addendums, posted on the website at <http://lakecountypurchasingportal.com> prior to the submittal due date. No notification will be sent when addendums are posted unless there is an addendum within three business days of the submittal due date.

If the submittal has already been received by Lake County, vendors are required to acknowledge receipt of addendum via email to purchasing@lakecountyil.gov prior to the due date.

Submittals that do not acknowledge addendums may be rejected.

All responses are to be submitted in a sealed envelope. Envelopes are to be clearly marked with required submittal information.



Purchasing Division
18 North County Street – 9th Floor
Waukegan, Illinois 60085-4350
Phone 847-377-2929

CONTRACTOR QUALIFICATION FORM

Please return this form with all Bid Documents by the date and time shown on the Invitation to Bid.

If you have submitted one of these forms within the last twelve (12) calendar months, complete Pages 1, 2 and 5 only. Review Pages 3 and 4 and make any changes or corrections from your previous submittal.

Pursuant to applicable sections of the Lake County Purchasing Ordinance, the Purchasing Division is required to determine whether or not a bidder is responsible. A responsible bidder is defined as "an entity (business) who has the capability in all respects to perform fully the contract requirements, and the tenacity, perseverance, experience, integrity, reliability, capacity, facilities, equipment, and credit which will assure good faith performance." Information furnished by a bidder will be reviewed by the Purchasing Division, using department, and the project architect /engineer. Said information shall not be otherwise disclosed without prior written consent by the bidder. Failure to submit this form by the date and time specified shall be cause for rejection of your bid.

Contractor Name: _____

Project Name: _____

Qualifications of a responsible bidder shall comply with the following requirements:

- a. Business duration: Minimum 10 years in business.
- b. Relevant Construction experience: Minimum of 5 similar projects in the last 5 years of equal or greater dollar value to the base bid included herein.
- c. Safety: Worker's compensation premium modifier not more than 1.0 or an explanation of special circumstances.
- d. Contract completion history: No defaults of any construction.

The contracting authority reserves the right to request written documentation of these qualifications. Project experience documentation shall include, at a minimum, the following information: Project name, brief project description, owner, owner's agent and architect including contact names and phone numbers.

1. For the current proposed project, list work to be performed by your own forces:

2. List Proposed Major Subcontractors for this Project:

Name & Address	Trade	Amount

3. Business Organization:

_____ Sole Proprietor: An individual whose signature is a fixed to this bid.

_____ Partnership: State full names, titles and addresses of all responsible principals and/or partners:

_____ Corporation: State of incorporation: _____

How long in present business: _____

4. Number of personnel in organization:

Administrative _____

Engineering _____

Office _____

Shop _____

Field _____

5. Bank Reference: _____
Address: _____
Contact Person: _____

6. Bonding Company: _____
Agency Name: _____
Agency Address: _____
Contact Person: _____

7. Insurance Company: _____
Agency Name: _____
Agency Address: _____
Contact Person: _____

8. Trade References (List Four):

Name:	_____	_____
Address:	_____	_____
	_____	_____
Contact Person:	_____	_____
Telephone #:	_____	_____
Name:	_____	_____
Address:	_____	_____
	_____	_____
Contact Person:	_____	_____
Telephone #:	_____	_____

9. A. Have you within the last five years failed to complete a contract?

_____ Yes _____ No

B. Are there any judgements, claims or suits pending or outstanding against you?

_____ Yes _____ No

If answer to either question is Yes, submit details on a separate sheet.

C. List all claims that have been filed by or against your firm due to construction contracts in the last five years, including arbitration:

10. Financial Statement:

Current Assets	\$ _____	
Fixed Assets (Depreciated)	\$ _____	
Other Assets	\$ _____	
Total Assets		\$ _____
Current Liabilities:	\$ _____	
Long Term Liabilities	\$ _____	
Total Liabilities		\$ _____
Net Worth		\$ _____

Date of Latest Balance Sheet: _____

Accounting Firm: _____
(Lake County reserves the right to request a copy of financial statement.)

11. Major Contracts Completed During Last Five Years:

Year	Name of Project	Architect/Engineer	Contract Amount

12. Average Annual Billing for Last Five Years: \$ _____

13. Total Work in Progress and Under Contract: \$ _____

14. List All Major Work Under Contract:

% Completed	Name of Project	Architect/Engineer	Contract Amount

15. List Minority and Women Owned Sub-Contractor's Participation in this project:

Contractor/Supplier Name	Work to be Performed	\$ Amount	List MBE, WBE, SBE, DBE
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

16. List the name and construction experience of the proposed superintendent(s) for this project:

The undersigned hereby certifies that answers to the foregoing questions and all statements therein contained are true and correct. Surety, bank, subcontractor, supplier, or any other persons, firms or corporations with whom we have done business, or who have extended any credit to us are hereby authorized to furnish you with any information you may request concerning our organization including, but not limited to, information concerning performance on previous work or credit standing with any of them. We hereby release any and all such parties from any legal responsibility whatsoever of having furnished such information to you.

Name of Organization: _____

By: _____

Title: _____ Date: _____

APPENDIX A

SUSTAINABILITY STATEMENT INSTRUCTIONS

The County of Lake is committed to green and sustainable practices and good environmental stewardship. Consequently, we are asking bidders to provide a Statement of Sustainability to ensure our bidders are also incorporating sustainability into their firms' practices.

INSTRUCTIONS

On the following Sustainability Statement form, provide a clear description of your firm's sustainable practices, policies, or procedures. These practices may include, but may not be limited to, the following categories and examples:

Waste Minimization within your office or facilities, such as a recycling programs, double-sided copying, electronic internal communications (i.e. memos), use of recycled-content materials and reusable cups, limiting printing, electronic document management, instituting green purchasing policies, using green cleaning supplies and practices, or reducing packaging in materials you procure or supply.

Energy Efficiency within your office, facilities, or firm, such as lighting retrofits, photo-sensor switches for lighting, effective use of daytime lighting, using Energy Star rated appliances or equipment, using an alternative fuel or having efficient fleet policies, an anti-idling policy, or indoor temperature management (i.e. turning the thermostat up in the summer and down in the winter).

Water Efficiency within the office, facilities, or firm, such as faucet or fixture retrofits, switching from individual bottled water to office water coolers or drinking fountains, and installing drought-tolerant landscaping.

Staff encouraged to adopt sustainable practices and supported by your firm through public transit benefits, bicycle accommodations, telecommuting options, support for green seminar attendance, becoming US Green Building Council LEED accredited, or creating an internal "green team."

Education of your staff about green practices, education of your business peers about your green accomplishments, education of your community by your sustainability, or notice of any environmental awards your firm has achieved.

CONTINUE TO NEXT PAGE

Bidder Name _____

Attach additional sheets if necessary.

Waste Minimization

Energy Efficiency

Water Efficiency

Staff

Education

REFERENCES

Removal and Installation of the Salt Dome Conveyor for the Division of Transportation

(This section must be completed and returned with bid. Attach additional pages as required to complete required documentation.)
List below current/past customers and local governmental entities similar in size and scope of operation to Lake County where you have provided similar equipment or services as described in this bid.

1. Entity: _____
Address: _____
City, State, Zip Code: _____
Telephone Number: _____
Description of Services and Equipment Provided: _____
Date of Service: ____/____/____ To ____/____/____

2. Entity: _____
Address: _____
City, State, Zip Code: _____
Telephone Number: _____
Description of Services and Equipment Provided: _____
Date of Service: ____/____/____ To ____/____/____

3. Entity: _____
Address: _____
City, State, Zip Code: _____
Telephone Number: _____
Description of Services and Equipment Provided: _____
Date of Service: ____/____/____ To ____/____/____

Company: _____ Authorized Signature: _____
Date: _____ Title: _____

SECTION 02 41 16 BUILDING DEMOLITION

SCOPE Applicable provisions of the General and Supplementary Conditions and Division 1 govern Work under this Section.

INDEX	1.1 Description	2.5 Hand Railings
	1.2 Quality Assurance	2.6 Door and Windows
	1.3 Submittals	2.7 Miscellaneous
	1.4 Job Conditions	2.8 Explosives
	2.1 Tools	2.9 Other Materials
	2.2 Dust Control Partitions	3.1 Inspection
	2.3 Concrete Work	3.2 Preparation
	2.4 Masonry/Tile Work	3.3 Demolition
		3.4 Disposal

PART 1 GENERAL

1.1 Description

- A. Work Included: Demolition and rubbish removal for the Work includes but is not necessarily limited to:
 - 1. Removal of existing dome roof structure
 - 2. Removal of all debris.
 - 3. Removal of miscellaneous items.
 - 4. Dust control.
- B. Definitions: The term "Demolition" as used herein, includes the removal of all existing objects (except for those objects designated to remain) plus such other Work as is described in this Section of these Specifications.

1.2 Quality Assurance

- A. Qualifications of Contractors
 - 1. Minimum of five years experience in demolition of comparable structures.
 - 2. Provide continuous inspection by a Superintendent capable of immediately detecting any possible structural problems that may occur and to insure strict compliance with dust control procedures.
- B. In addition to complying with all pertinent codes and regulations, comply with the requirements of all insurance carriers providing coverage for this Work.

1.3 Submittals

- A. Permits and notices authorizing misc. demolition.
- B. Certificates of severance of utility services.
- C. Permit for transport and disposal of debris.
- D. Demolition procedures and operational sequence for review and acceptance by Architect.

1.4 Job Conditions

- A. Protection
 1. Erect barriers, fences, guard rails, enclosures, chutes, and shoring to protect personnel, structures and utilities remaining intact.
 2. Protect designated trees and plants from damage.
 3. Use all means necessary to protect existing objects designated to remain and, in the event of damage, immediately make all repairs and replacements necessary to the requirements of the Architect and at no additional cost to the Owner.
- B. Dust Control
 1. Use all means necessary to prevent spread of dust during performance of the Work of this Section. Thoroughly moisten all surfaces as required to prevent dust being a nuisance to the public, neighbors and concurrent performance of other Work on the Site.
 2. Provide dust tight enclosures to isolate areas of demolition from the remainder of the building.
- C. Burning: On-site burning will not be permitted.
- D. Maintaining Traffic
 1. Ensure minimum interference with roads, streets, driveways, sidewalks and adjacent facilities.
 2. Do not close or obstruct streets, sidewalks, alleys or passageways without permission from authorities having jurisdiction.
 3. If required by governing authorities, provide alternate routes around closed or obstructed traffic ways.

PART 2 PRODUCTS

- 2.1 Tools:** Use only those tools which will not interrupt the Owner's operation by creating excessive noise, vibration or dust. Do not use tools that will emit carbon monoxide gas into occupied areas of the building.
- 2.2 Dust Control Partitions:** Construct temporary partitions for dust control from plastic sheeting attached to wood stud frame work. Partitions shall run floor to ceiling and completely across all openings. Patch all tears in plastic. Loosely hung canvas tarpaulins or plastic will not be accepted.
- 2.3 Concrete Work**
 - A. Concrete: Remove all slabs and foundations.
- 2.4 Masonry/Tile Work:** Remove existing masonry/tile walls to the extent indicated on Drawings.
- 2.7 Miscellaneous:** Remove from the site any and all other materials within the confines of the addition not necessary for construction purposes. Project demolition should include all items necessary to complete the scope of the project.

2.8 Explosives: Do not use explosives on this Work.

2.9 Other Materials: All other materials, not specifically described but required for proper completion of the Work of this Section shall be as selected by the Contractor subject to the review of the Architect.

PART 3 EXECUTION

3.1 Inspection

- A. Verify that structures to be demolished are unoccupied and discontinued in use.
- B. Do not commence Work until conditions are acceptable to Architect.
- C. Prior to all work of this Section, carefully inspect the entire site and all objects designated to be removed and to be preserved.
- D. Locate all existing lines and determine all requirements for disconnecting and capping.
- E. Locate all existing active utility lines traversing the site and determine the requirements for their protection.

3.2 Preparation

- A. Notification: Notify the Architect at least two full working days prior to commencing the Work of this Section.
- B. Exterminate vermin and rodents in structures to be demolished.
- C. Remove items scheduled to be salvaged for Owner, and place in designated storage area.
- D. Clarification
 - 1. The Drawings do not purport to show all objects existing on the Site.
 - 2. Before commencing the Work of this Section, verify with the Architect all objects to be removed and all objects to be preserved.
- E. Scheduling
 - 1. Schedule all Work in a careful manner with all necessary consideration for neighbors and the public.
 - 2. Avoid interference with the use of, and passage to and from adjacent buildings and facilities.
- F. Disconnection of Utilities: Before starting site operations, disconnect or arrange for the disconnection of all utility services designated to be removed, performing all such work in accord with the requirements of the utility company or agency involved.
- G. Protection of Utilities: Preserve in operating condition all active utilities traversing the Site and designated to remain.
- H. Take out and pay for all required fees and permits.

3.3 Disposal

- A. Remove demolition debris as soon as practicable. All combustible debris must be removed before the end of each working day.
- B. Do not store or burn materials on site.
- C. Transport demolition debris to disposal area.

* * * * *

SECTION 03 30 00 CAST-IN-PLACE CONCRETE

SCOPE Applicable provisions of the General and Supplementary Conditions and Division 1 govern work under this Section.

INDEX	1.1 Description	1.3 Submittals
	1.2 Quality Assurance	2.1 Supplemental Requirements

PART 1 GENERAL

1.1 Description

- A. Work Included: Cast-in-place concrete required for this work (including forms and reinforcing) is indicated on the drawings and includes but is not necessarily limited to:
 - 1. Footings - foundations
 - 2. Exterior flat work
- B. Work Installed but Furnished by Others: Anchor bolts, templates and built-in items for the require project scope of work.

1.2 Quality Assurance

- A. Workers: Use only workers experienced in the placing and finishing of concrete and erecting of reinforcing.
- B. Codes and Standards: Concrete work shall conform to all requirements of ACI 301, Specifications for Structural Concrete for Buildings Current Edition, except as modified by the Supplemental Requirements below:
 - 1. A copy of ACI-301, Specifications for Structural Concrete for Buildings is on file at the office of the Architect. The Contractor in submitting a proposal verifies that he has complete knowledge of ACI 301. A copy of ACI 301 will be bound into the copy of the building Specifications and kept on the site during construction. All concrete work will also conform to ACI 318-05 Building Code Requirements for Reinforced Concrete.

1.3 Submittals: At award of Contract and before any concrete is delivered to the job site submit to the Architect in accordance with these Specifications: Reinforcing steel drawings and Mix designs.

PART 2 PRODUCTS

2.1 Supplemental Requirements: Numbers listed below correspond to numbering designations used in ACI 301, Specifications for Structural Concrete for Buildings.

- (1.6) Testing: Take test cylinders as directed by Architects for testing by Owner.
- (2.2.1.4) Joint at perpendicular filler to meet Article 2.2.1.4

- (3.2) Reinforcing steel:
3.2.1.1 Deformed bars grade: ASTM A 615 Grade 60, New billet steel.
3.2.1.5 Wire grade: ASTM A 185.
- (3.3.2.5) Welded Wire Fabric: Welded wire fabric shall be as specified on the drawings. Fabric to be supplied in sheets, rolled goods are not permitted. Fabric to be supported on chairs to position the wires at the specified height. "Hooking" during concrete placement is not permitted.
- (4.2.1.4) Admixtures: Chemical admixtures compliant with ASTM C 494 or ASTM C 1017 in accord with ACI 301 will be acceptable / Chemical (non-chloride) admixtures compliant with ASTM C 494 or ASTM C 1017 in accord with ACI 301 will be acceptable.
- (4.2.2) Concrete Strength: All concrete - 4000 psi at 28 days.
- (4.2.2.2) Maximum slumps as follows: Slump tolerance shall be 4" per ACI 301 with a tolerance of +/- 1" per ACI 117. As stated in ACI 301, plasticizing admixtures will increase the allowable slump.
- (5.3.1) Placing: Notify Architect 24 hours in advance of starting time of each pour. Allow time for inspection of forms, reinforcement, screeds, etc., and to explain procedures for slump and cylinder tests.
- (5.3.3.3) As-cast finishes:
5.3.3.3.b Smooth form finish required.
- (5.3.3.4.a) Smooth rubbed finish on exposed sections of retaining walls, exposed foundations and curbs. Remove form marks prior to application. Commercial coating as approved by Architect.
- (5.3.4.2) Tolerances: Concrete to be true to plane, plumb and level with true curves. Deviations from dimensions, pitches, contours may not exceed 1/4" when by adding to scratch coat this may be corrected. Deviations which require a reduction in total two inch thickness of tile and setting bed, as shown on the Drawings will not be allowed.
- (5.3.5) Control Joints: saw cut or trowel max size 6'-0" x 6'-0" curbing
- (5.3.6) Concrete Surface Sealer: At all slabs,
Lapidolith by Sonneborn
Aquapel by L&M Construction Chemicals.
- Apply per manufacturer's specifications for new concrete immediately after finishing.

* * * * *

SECTION 06 10 00 ROUGH CARPENTRY

SCOPE Applicable provisions of the General and Supplementary Conditions and Division 1 govern work under this Section.

INDEX	1.1 Description	3.2 Workmanship
	1.2 Quality Assurance	3.3 Installation
	1.3 Submittals	3.4 Fastening
	1.4 Product Handling	3.5 Nailing Schedule
	2.1 Grade Stamps	3.6 Protection
	2.2 Materials	3.7 Cleaning Up
	3.1 Surface Conditions	

PART 1 GENERAL

1.1 Description

- A. Work Included: All wood, nails, bolts, screws, framing anchors and other rough hardware, and all other items needed for rough carpentry in this Work but not specifically described in other Sections of these Specifications; and the installation of all blocking Required for scope of work.

1.2 Quality Assurance

- A. Qualifications of Workmen
1. Provide sufficient skilled workmen and supervisors who shall be present at all times during execution of this portion of the Work and who shall be thoroughly familiar with the type of construction involved and the materials and techniques specified.
 2. Rejection: In the acceptance or rejection of rough carpentry, no allowance will be made for lack of skill on the part of workmen.
- B. Codes and Standards
1. Lumber grading rules and wood species to be in conformance with Voluntary Product Standard PS 20: Grading rules of the following associations apply to materials furnished under this Section:
 - a. West Coast Lumber Inspection Bureau (WCLIB).
 - b. Western Wood Products Association (WWPA).
 2. Requirements of Regulatory Agencies
 - a. Pressure treated material: American Wood Preservers Bureau Standards.
 - b. American Wood Preservers Bureau (AWPB):
 - (1) LB-2, Standard for Softwood Lumber, Timber, and Plywood Pressure Treated with Water-borne Preservatives for Above Ground Use.
 - c. Federal Specifications (FS):
 - (1) FF-B-561, Bolts (Screw), Lag.
 - (2) FF-B-575, Bolts, Hexagon and Square.
 - (3) FF-B-584, Bolts, Finned Neck; Key Head; Machine; Ribbed Neck; Square Neck; Tee Head.
 - (4) FF-N-105, Nails, Wire, Brads and Staples.
 - (5) FF-N-836, Nuts, Square, Hexagon, Cap, Slotted, Castellated, Clinch Knurled and Welding.

- (6) FF-S-111, Screw, Wood.
- d. Product Standards (PS)
 - (1) 20, American Softwood Lumber Standard.
- 3. Conflicting requirements: In the event of conflict between pertinent codes and regulations and the requirements of the referenced standards or these Specifications, the provisions of the more stringent shall govern.

1.3 Submittals

- A. Certification (only on request of Architect)
 - 1. Pressure-treated wood: Submit certification by treating plant stating chemicals and process used, net amount of salts retained, and conformance with applicable standards.

1.4 Product Delivery, Storage and Handling

- A. Protection
 - 1. Use all means necessary to protect the materials before and after delivery to the job site, and to protect the installed work and materials of all other trades.
 - 2. Deliver the materials to the job site and store, all in a safe area, out of the way of traffic.
 - 3. Store materials a minimum of 6 inches above ground on framework or blocking and cover with protective waterproof covering providing for adequate air circulation or ventilation.
 - 4. Do not store seasoned materials in wet or damp portions of building.
 - 5. Protect sheet materials from corners breaking and damaging surface, while unloading.
 - 6. Identify all framing lumber as to grades and store all grades separately from other trades. Keep grade marks legible.
 - 7. Protect all metal products with adequate weatherproof outer wrappings.
 - 8. Keep all damaged material clearly identified as damaged, and separately store to prevent its inadvertent use.
 - 9. Do not allow installation of damaged or otherwise noncomplying material.
 - 10. Use all means necessary to protect the installed work and materials of all other trades.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.

PART 2 PRODUCTS

- 2.1 Grade Stamps:** Identify all other materials of this Section by the appropriate stamp of the agency listed in the reference standards, or by such other means as are approved in advance by the Architect.

2.2 Materials

- A. Lumber
 - 1. Dimensions
 - a. Specified lumber dimensions are nominal.
 - b. Actual dimensions to conform to PS 20.

2. Moisture Content: Unseasoned or 19% maximum at time of permanent closing in of building or structure, for lumber 2 inches or less nominal thickness.
 3. Surfacing: Surface four sides (S4S), unless specified otherwise.
 4. End Jointed Lumber
 - a. Structural purposed interchangeable with solid sawn lumber.
 5. Framing lumber, any commercial softwood species
 - a. Light framing
 - (1) General framing: Standard and Better or Stud grade. Chloride treated at roof blocking and where in contact with concrete.
 - (2) Plates, blocking, bracing and nailers: Utility grade.
 - (3) Bracing, blocking, bulk headings and general utility purposes: Economy grade.
 - b. Beams and Headers – Required by Dome engineer
- B. Panel Sheathing
1. Plywood – APA Rated; thickness or rating as shown on the drawings.
 2. Exterior graded where sheathing is exposed to the weather for long periods of time.
 3. Floor sheathing to have tongue and groove edge.
 4. Fire Treated Plywood – All exterior plywood sheathing shall be Fire-Retardant-Treated Wood meeting the criteria outlined in Section 2303.2 of the International Building Code - 2015. As specified in the code, wood shall be tested in accordance with ASTM E84 or UL723, a listed flame spread index of 25 or less and show no evidence of significant progressive combustion when test is continued for an additional 20-minute period.
- C. Preservative-Treated Wood Products
1. Waterborne salt preservatives for painted, stained, or exposed natural wood product:
 - a. AWPB LP-2, above ground applications.
 - b. Lumber redried to maximum moisture content of 19%, stamped "DRY".
- D. Rough Hardware
1. Bolts
 - a. FS FF-B-575.
 - b. FS FF-B-584.
 2. Nuts: FS FF-N-836.
 3. Expansion shields: FS FF-B-561.
 4. Lag screws and bolts: FS FF-B-561.
 5. Toggle bolts: FS FF-B-588.
 6. Wood Screws: FS FF-S-111.
 7. Nails and staples: FS FF-N-105.
 8. Metal nailing discs:
 - a. Flat caps, minimum 1 inch diameter.
 - b. Minimum 30 gauge sheet metal.
 - c. Formed to prevent dishing.
 - d. Bell or cup shapes not acceptable.

PART 3 EXECUTION

3.1 Surface Conditions

A. Inspection

1. Prior to all Work of this Section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.
2. Verify that all rough carpentry may be performed in strict accord with the original design and all pertinent codes and regulations.

B. Discrepancies

1. In the event of discrepancy, immediately notify the Architect.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.2 Workmanship

A. General: All rough carpentry shall produce joints true, tight and well secured with all members assembled in accord with the Drawings and with all pertinent codes and regulations.

B. Selection of lumber pieces.

1. Carefully select all members; select individual pieces so that knots and obvious defects will not interfere with placing bolts or proper nailing or making proper connections.
2. Cut out and discard all defects which will render a piece unable to serve its intended function; lumber may be rejected by the Architect, whether or not it has been installed, for excessive warp, twist, bow crook, mildew, fungus, or mold, as well as for improper cutting and fitting.

3.3 Installation

A. General Framing

1. General: In addition to all framing operations normal to fabrication and erection indicated on the Drawings, install all backing required for the Work of other trades.

3.4 Fastening

A. Nailing

1. Use only common wire nails or spikes, except where otherwise specifically noted in the Drawings.
2. Provide penetration into the piece receiving the point of not less than 1/2 the length of the nail or spike provided, however, that 16d nails may be used to connect two pieces of two inch (nominal) thickness.
3. Do all nailing without splitting wood, preboring as required; replace all split members.

B. Bolting

1. Drill holes 1/16 inch larger in diameter than the bolts being used; drill straight and true from one side only.
2. Bolt threads must not bear on wood; use washers under head and nut where both bear on wood; use washers under all nuts.

C. Screws

1. For lag-screws and wood screws, prebore holes same diameter as root of thread; enlarge holes to shank diameter for length of shank.
2. Screw, do not drive, all lag screws and wood screws.

3.5 Nailing Schedule: Unless otherwise indicated on the Drawings or required by pertinent codes and regulations, provide at least the nailing shown in Table 2304.10.1 Fastening Schedule of the International Building Code – 2015 Edition.

3.6 Protection: Protect wood decking with protective waterproof covering until roofing has been installed.

3.7 Cleaning Up

- A. General: Keep the premises in a neat, safe and orderly condition at all times during execution of this portion of Work, free from accumulation of sawdust, cut-ends, and debris.
- B. Sweeping
 1. At the end of each working day, or more often if necessary thoroughly sweep all surfaces where refuse from this portion of the Work has settled.
 2. Remove the refuse to the area of the job site set aside for its storage.
 3. Upon completion of this portion of the Work, thoroughly broom clean all surfaces.

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SECTION 07 11 00 DAMPPROOFING & VAPOR RETARDERS

SCOPE Applicable provisions of the General and Supplementary Conditions and Division 1 govern work under this Section.

INDEX	1.1 Description	
	1.2 Quality Assurance	2.1 Materials
	1.3 Submittals	3.1 Surface Conditions
	1.4 Product Handling	3.2 Preparation
	1.5 Warranty	3.3 Application

PART 1 GENERAL

1.1 Description

- A. Work Included
 - 1. Prepare and prime surfaces to receive dampproofing.
 - 2. Apply bituminous dampproofing on perimeter foundation walls at conveyor pit.
 - 3. Seal/caulk joints and protrusions through dampproofing.
 - 4. Waterstops
 - 5. Under Slab Vapor Retarders
- B. Related Work Specified Elsewhere
 - 1. Concrete Section 03 30 00

1.2 Quality Assurance

- A. Qualifications of Applicators: for actual application of dampproofing, use only workers who are thoroughly trained and experienced in the skills required, who are completely familiar with the Manufacturer's recommended methods of application, and who are completely familiar with the requirements of this Section of these Specifications.
- B. Contractor Certification: Prior to start of installation of the Work of this Section the Contractor shall inspect and shall certify:
 - 1. That the surfaces to which dampproofing was applied were in condition suitable for that application.
 - 2. That the materials applied conform in all respects with the requirements of this Section of these Specifications.
 - 3. That the materials were applied in complete accord with the Manufacturer's current recommendations.
- C. Reference Standards
 - 1. American Society for Testing and Materials (ASTM):
 - a. D 41, Primer for Use with Asphalt in Dampproofing and Waterproofing.
 - b. D 449, Asphalt for Dampproofing and Waterproofing.
 - c. D 491, Asphalt Mastic for Use in Waterproofing.
 - d. E 1745, Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs

1.3 Submittals: Within 35 days after award of Contract, and before any materials of this Section are delivered to the job site, submit to the Architect in accordance with the provisions of these Specifications; the following:

- A. Manufacturer's Recommendations: Submit Manufacturer's instructions for application recommendations.
- B. Material List: Complete list of all materials proposed to be furnished and installed.

1.4 Product Handling

- A. Protection: Use all means necessary to protect materials before, during and after installation and to protect the installed work and materials of all other trades.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.

1.5 Warranty: Warranty that the dampproofing will remain intact and resist water for a period of five years following date of application.

PART 2 PRODUCTS

2.1 Materials

- A. Bituminous Dampproofing
 - 1. Dampproofing: ASTM D 449; liquid asphalt; free of toxic solvents; once applied and cured, capable of retaining adhesion and will not re-emulsify when in contact with moisture; will not settle or slide detrimentally once applied; resistant to calcium chloride salt and alkali; fibre reinforced; suitable for spray, trowel, brush, application. Similar to Hydrocide Spray Mastic as manufactured by Sonneborn.
 - 2. Primer: ASTM D 41; asphalt type; free of toxic solvents; compatible with dampproofing; type recommended by dampproofing Manufacturer.
 - 3. Sealing Mastic: ASTM D 491; asphalt type; compatible with dampproofing; free of toxic solvents; thick mastic consistency, smooth and uniform in composition; type recommended by dampproofing manufacturer.
 - 4. Protective Cover: As detailed.
- B. Acceptable Manufacturers
 - 2. Karnak
 - 3. W. R. Meadows
 - 4. Sonneborn
 - 5. Substitutions: Items of same function and performance are acceptable in conformance with Section 01600.
- C. Waterstops: Neoprene rubber, ASTM D 412, 6 inches by 1/4 inch with 1 inch center bulb.

D. Under Slab Vapor Barriers:

1. Thickness, Nominal: 10 mil
2. Weight: 49 lbs / MSF
3. Tensile Strength, New Material: 52 lbs/in
4. Puncture Resistance (ASTM D1709, Method B): >2600 g
5. Permeance, New Material: 0.0146 perms

PART 3 EXECUTION

3.1 Surface Conditions

A. Inspection

1. Prior to all Work of this Section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.
2. Verify that dampproofing may be installed in accord with the original design and the Manufacturer's current recommendations.

B. Discrepancies

1. In the event of discrepancy, immediately notify the Architect.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.2 Preparation

A. Bituminous Dampproofing

1. Ensure surfaces are firm, dry, and free from frost, loose particles, cracks, pits, rough projections, grease, oil and other foreign matter detrimental to adhesion and monolithic application of dampproofing.
2. Remove loose particles and foreign matter with scraper, wire brush or other effective means. Remove grease or oil with safety solvent, effective alkaline cleaner or detergent. If safety solvents are use, follow with an application of alkaline cleaner or detergent, scrub surfaces clean with water.
3. Comply strictly with Manufacturer's recommendations.

3.3 Application

A. Bituminous Dampproofing

1. Prime surfaces prior to applying dampproofing, at rate of one gallon per 100 sq. ft.
2. Apply dampproofing in accord with Manufacturer's recommendations. Apply in two continuous and uniform coats, from 2 inches below finished grade elevation down to bottom of footings. Obtain inspection by Architect of first coat before applying second coat.
3. Do not apply dampproofing during temperatures below 40 degrees F.
4. Seal around items and services projecting through dampproofing surfaces. Apply in accord with Manufacturer's recommendations. Ensure sealed areas are moisture tight.
5. Protect dampproofing from damage during backfill operations.

- B. Waterstops: Supply material to concrete subcontractor for installation in forms.
- C. Vapor Barriers and Flashing Tape: Install where shown on the Drawings in accordance with manufacturer's recommendations.

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SECTION 07 31 00 SHINGLES

SCOPE Applicable provisions of the General and Supplementary Conditions and Division 1 govern work under this Section.

INDEX	1.1 Description	1.6 Warranty
	1.2 Quality Assurance	2.1 Materials
	1.3 Submittals	2.2 Acceptable Manufacturers
	1.4 Product Delivery, Storage and Handling	3.1 Surface Conditions
	1.5 Job Conditions	3.2 Application
		3.3 Adjust and Clean

PART 1 GENERAL

1.1 Description

- A. Work Included: Shingle roofing required for this Work is indicated on the Drawings and includes, but is not necessarily limited to asphalt shingle roofing, underlayment, eaves, valley, and ridge protection at the new conveyor dormer and infill of the existing dormer.

1.2 Quality Assurance

- A. Requirements of Regulatory Agencies
 - 1. Underwriters' Laboratories, Inc.: Class A label.
 - 2. International Code Council
- B. Reference Standards
 - 1. American Society for Testing and Materials (ASTM):
 - a. D 225, Asphalt Shingles Surfaced with Mineral Granules.
 - 2. Underwriters' Laboratories, Inc. (UL)
 - a. 790, Test Methods for Fire Resistance of Roof Covering Materials.

1.3 Submittals: Within 35 days after award of Contract, and before any of the materials of this Section are delivered to the job site, submit complete to the Architect in accord with the provisions of these Specifications; the following:

- A. Samples: Shingles: Two of each style selected indicating full range of color.
- B. Manufacturer's Literature: Material description and recommended installation procedures.
- C. Extra Stock: One percent of total shingles laid.

1.4 Product Delivery, Storage and Handling

- A. Protection: Use all means necessary to protect the materials of this Section before, during and after installation and to protect the installed work and materials of all other trades.
- B. Delivery of Materials
 - 1. Deliver materials with Manufacturer's labels intact and legible.
 - 2. Deliver materials in sealed packages with Underwriters' Laboratories Inc. labels.

- C. Storage of Materials
 - 1. Store materials on raised platforms and protect with coverings at outdoor locations.
 - 2. Do not stack bundles of shingles more than 3 feet high.
 - 3. Store rolled goods on end.
- D. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.

1.5 Job Conditions

- A. Do not install underlayment or shingles on wet surfaces.
- B. Do not apply shingles when air temperature is below 40 degrees.

1.6 Warranty

- A. At completion of roofing, furnish Owner with Manufacturer's Lifetime Limited written warranty or bond.
- B. In addition to Manufacturer's Standard Product Warranty, Contractor shall furnish a written two year guarantee covering repairs and replacement at no cost to Owner for any defects or failure due to faulty workmanship.

PART 2 PRODUCTS

2.1 Materials

- A. Individual Shingles – Match existing shingles
 - 1. ASTM D 3018, Type 1 and D3161, Type 1
 - 2. Size: 39-3/8" inches long by 13-1/4 inches wide, 5-5/8 inch exposure.
 - 3. Algae protection.
 - 4. Limited lifetime warranty with 110 mph limited wind warranty and 10 year algae warranty.Color: Match existing shingles
- B. Asphalt-saturated Roofing Felt: ASTM D 226, 30 pounds, organic, unperforated, 36" wide.
- C. Hip and Ridge Shingles: Preformed, manufacturer's standard.
- D. Nails
 - 1. Self-clinching, Manufacturer's standard.
 - 2. Minimum Pullout Strength: 40 pounds per nail.
- E. Bituminous Plastic Cement: FS-SS-C-153, Type I.
- F. Attic ventilation accessories - Commercial Grade.
- G. Ice and Water Shield: ASTM D146, 60 mil, adhesive backed membrane, 36" wide.

2.2 Acceptable Manufacturers:

- 1. G.A.F. Materials Corporation – Timberline HD – Architectural Shingle

2. Certainteed – Landmark Pro AR Series – Architectural Shingle
3. Owens Corning - Oak Ridge Algae Resistant – Architectural Shingle

PART 3 EXECUTION

3.1 Surface Conditions

- A. Inspection
 1. Assure that surfaces to which shingles are to be applied are uniform, smooth, sound, clean, dry and free of irregularities.
 2. Verify that installation of metal flashings has been completed.
 3. Verify that work of other trades which penetrates roof deck has been completed.
 4. Do not start work until unsatisfactory conditions are corrected.

3.2 Application

- A. Ice and Water Shield
 1. Apply two rows of Ice and Water Shield at eave, or past building wall, whichever is greater.
 2. Apply one row of Ice and Water Shield at all valleys.
- B. Felt Underlayment
 1. Decks with slope 4 inches in 12 inches or greater:
 - a. Nail metal drip edge along the bottom edge (eaves) before felt is laid and to the sides (rakes) after the felt is laid.
 - b. Lay one layer of felt horizontally over entire roof, lapping each course over lower course 2 inch minimum at horizontal joints and 4 inch side lap at end joints.
 - c. Lap felt 6 inches from both sides over hips and ridges.
 - d. Secure underlayment to deck with sufficient fasteners to hold in place until shingles are applied.
 - e. For winter ice-dam protection applications: Where January average daily temperature is 25 degrees F. or where there is a possibility of ice forming along the eaves and causing roof leaks from a back-up of water, apply eaves flashing strip of heavy roll roofing to overhang drip edge 1/4 inch and extend to a point 12 inch minimum inside the interior wall line of building. If horizontal lap is required, it must occur outside the wall line.
 2. Decks with slope less than 4 inches in 12 inches:
 - a. Nail metal drip edge along the bottom edge (eaves) before felt is laid and to the sides (rakes) after the felt is laid.
 - b. Lay two layers of felt horizontally over entire roof, lapping each course over lower course 17 inch minimum at horizontal joints and 4 inch side lap at end joints.
 - c. Lap felt 6 inches from both sides over hips and ridges.
 - d. Secure underlayment to deck with sufficient fasteners to hold in place until shingles are applied.
 - e. For winter ice-dam protection applications: Where January average daily temperature is 25 degrees F. or where there is a possibility of ice forming along the eaves and causing roof leaks from a back-up of water, apply eaves flashing strip of heavy roll roofing to overhang drip edge 1/4 inch and extend to a point 12 inch minimum inside the interior wall line of building.

If horizontal lap is required, it must occur outside the wall line.

3. Valley underlayment:
 - a. Apply 36 inch wide underlayment, centered in valley, and nail in position.
 - b. Cut horizontal courses of underlayment to overlap valley underlayment 6 inches minimum.
4. Install ventilation accessories where shown.

C. Felt Flashings

1. Eaves Flashing:
 - a. Decks with slope 4 in 12 or greater:
 - (1) Apply course of mineral surface roofing or smooth roll roofing to overhand underlayment and metal drip edge 3/8 inch.
 - (2) Extend roll roofing to 12 inch minimum inside interior wall line of building.
 - b. Decks with slope less than 4 in 12:
 - (1) Apply bituminous plastic cement at 2 gallons per 100 square feet to surface of felt underlayment.
 - (2) Apply second course of underlayment to extend up roof to minimum 30 inches beyond interior wall line.
2. Open Valley Flashing:
 - a. Place 18 inch wide mineral surfaced roll roofing, centered in valley, surfaced side down, lower edge cut flush with bottom of eaves flashing strip.
 - b. Nail 1 inch in from each edge to hold strip in place.
 - c. Splice by overlapping ends of upper segments 12 inches over lower segments, and secure with bituminous plastic cement.
 - d. Place second strip of 3 foot wide mineral surfaced roll roofing over first strip with surfaced side up, centered in valley, secured and lapped same as underlaying strip.
3. Closed Valley Flashing: Center smooth surface roll roofing in 3 feet within valley over felt underlayment.

D. Tab Butt Strip Shingles

1. Starter strip: Apply 9 inch minimum wide mineral surfaced roll roofing even with lower edge of eave.
2. First and succeeding courses:
 - a. Start first course with full shingle at break.
 - b. Cutouts break joints on halves:
 - (1) Start second course with full shingle minus 1/2 first tab.
 - (2) Start third course with full shingle minus first tab.
3. Nailing
 - a. Nail on horizontal line at 5/8 inch above cutouts and 1 inch in from shingle ends.
4. Apply bituminous plastic cement over 1 square inch on underlying shingle in center of tabs, and press tabs against cement.

E. Hips and Ridges: Use Manufacturer's standard hip and ridge shingles.

F. Valleys

1. Open Valleys:
 - a. Before roofing is applied, snap two chalk lines along full valley length, one on each side, 6 inches apart at ridge, diverging at rate of 1/2 inch per foot toward eave.

- b. Clip upper corner of each shingle end at angle parallel to valley.
- c. Cement last shingle to valley lining with bituminous plastic cement.
- 2. Closed Valleys:
 - a. Lay shingles along eaves of roof crossing valley, extending over adjoining roof deck 12 inches minimum.
 - b. Lay first course along eaves of adjoining roof and extend across valley on top of previously applied shingle 12 inches minimum.
 - c. Lay succeeding courses alternately.
 - d. Nail no closer than 5 inches to valley centerline and apply two nails at end of each terminal strip.

3.3 Adjustments and Cleaning

- A. Replace damaged shingles.
- B. Remove excess shingles not part of extra stock and debris from project side.

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SECTION 14 01 00 24-INCH DOME LOADING CONVEYOR

1.1 Service

This specification covers the technical requirements for the supply of a 24-inch dome loading belt conveyor to be mounted inside a salt/sand storage dome.

1.2 General Documents

The following applicable codes, standards and regulations are referred to in this document;

American Society of Mechanical Engineers (ASME)
Conveyor Equipment Manufacturer's Association (CEMA)
American Society of Testing and Materials (ASTM)
American Institute of Steel Construction (AISC)
American Welding Society (AWS)
National Electric Code (NEC)

Standards and all other information contained in this specification are intended to be cooperative; that is, all requirements called for by one shall be as binding as if called for by all. Where requirements differ among these sources, the most rigid, as determined by the owner shall apply.

2.0 Scope

The Vendor shall design and supply a new electric powered, dome loading conveyor system including below grade hopper as specified herein. Supply shall include:

- 1) Below grade hopper with control gate.
- 2) Skirt boards
- 3) Conveyor covers where the conveyor runs exterior to the dome.
- 4) Conveyor drive with electric motor.
- 5) First fill of lubricants and greases of the system.

The vendor shall be solely responsible for the design, fabrication and supply of the equipment. He shall coordinate all work with the various suppliers and ascertain that all the components are put together as a complete workable unit. Conveyor manufacturer shall coordinate with dome manufacturer to insure that the structural integrity of the dome is not compromised by the installation of the conveyor.

2.1 Supplied by Others.

Electric power shall be relocated by the conveyor contractor. Power supply should match the existing power supply.

The conveyor supplier will be required to supply a pre-assembled control panel for the conveyor complete with starter, push buttons, switches and transformers. They shall also supply the emergency stop buttons and limit switches required. The hard wiring from the power supply to the control panel and from the control panel to the various motors and safety devices shall be supplied and installed by others.

Hard wiring shall conform to the local code requirement.

3.0 Design Criteria

3.1 Design Data

The conveyors shall be used to load sand and/or salt into an existing storage dome. It shall have a capacity of 200 tons/hour as calculated in conformance with the CEMA publication "Belt Conveyors for Bulk Materials". For the purposes of this specification, salt is defined being free flowing and having a bulk density of 80 PCF with an angle of repose of 32 degrees. Sand shall be defined as having a bulk density of 110 PCF with an angle of repose of 32 degrees.

3.2 Design Requirements

The supplied equipment shall have the following characteristics;

1. The conveyor pit shall be designed to unload trucks. The trucks shall unload by advancing into position over the pit hopper. After unloading they shall again advance to clear the hopper area for the next truck.
2. The pit hopper opening shall be covered with a galvanized steel grating capable of supporting truck traffic. The top of the hopper shall be elevated 6" above the finished grade.
3. The conveyor pit shall be made of reinforced concrete. The concrete shall have a minimum compressive strength of 4000 psi after 28 days and shall be air entrained.
4. All fabricated steel shall be hot-dip galvanized after fabrication. All field connections shall be with galvanized bolts and hardware.
5. The conveyors shall be supported from the existing dome roof. The contractor shall certify that the new conveyor does not overstress or otherwise damage the existing dome structure.
6. The dome-loading conveyor shall be inclined at an angle of 28 degrees. The head pulley shall be fitted with automatic lubricators. The drive unit shall be located above grade, near ground level, for easier maintenance with guarding in place. With all proper Safety Labels in place. The training pulley should be a crown profile – flat not acceptable.
7. The conveyor shall have electric motors. The drive horsepower requirement shall be calculated in conformance with the CEMA Handbook mentioned above. The drive train of the dome-loading conveyor.

3.2 Design Requirements Cont'd

1. The conveyor drive motor shall be TEFC and thermostat protected.

2. A vibrator mounting plate shall be installed on the hopper. The plate shall be suitable for mounting a Rotary Vibrator, or approved equal, which shall be supplied by others if required.
3. Carrying idlers shall be 35-degree troughing, Mounted on galvanized frame brackets with UHMW plastic 4" roller
4. Return idlers shall be galvanized brackets with UHMW plastic 4" return rollers,
5. Rubber skirt boards shall be provided on the conveyors at the transfer point beneath the hopper.
6. Conveyor outside the domes shall be equipped with galvanized covers.
7. The below grade hopper shall be supported on an A36 steel frame. The minimum plate thickness shall be ¼" galvanized steel.
8. The hopper shall have a top opening of 9'- 0" x 4'- 0" and shall be covered by heavy-duty galvanized grating. The hopper shall be equipped with an adjustable gate.

3.3 Design Requirements

The supplied equipment shall have the following characteristics;

1. The conveyor pit shall be designed to unload trucks. The trucks shall unload by advancing into position over the pit hopper. After unloading they shall again advance to clear the hopper area for the next truck.
2. The conveyor pit shall be made of reinforced concrete. The concrete shall have a minimum compressive strength of 3500 psi after 28 days and shall be air entrained.

4.0 Materials

1. All materials used in the manufacture of the equipment shall be new and conform to recognized codes, standards and specifications.
2. The steel conveyor supports and frames, the hopper and steel supports shall be fabricated from ASTM A-36. All these items shall be hot-dip galvanized after fabrication.
3. The idlers, pulleys and drive components shall be painted as per the manufacturer's standard paint system.
4. The conveyor belt shall be cleated with the cleats shaved beneath the skirt boards. The supply shall include a stainless-steel belt splice. The belt will be sliced, trained, and proper adjustment made on the completion of installation. Submit proposed system for review prior to bidding.

5.0 Testing and Performance

5.1 Acceptance Trial

The Vendor shall demonstrate that the conveyor system can operate at the specified duty and capacity. He shall also instruct the Owner's staff in the proper operation and maintenance of the equipment

6.0 Contractor Information

6.1 Drawings, Manual etc.

Contractor shall submit descriptive material and outline sketches showing principal dimensions and parts for the conveyor. He shall also provide maintenance and service information for the principal components.

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SITE MAP



GENERAL NOTES

1. All concrete to test 4000 psi in 28 days.
2. Verify all dimensions, access, utilities and working conditions in the field.
3. Conform to all applicable codes, ordinances and safety standards.
4. Obtain and pay for all required permits and fees.
5. Notify Architect immediately if work cannot proceed as shown on Drawings or as described in the Specifications.
6. No concrete to be poured without Architect's prior review.
7. All Contractor's to co-operate with all trades, Owner's and Architect's representatives.
8. Leave site clean, neat and free of debris at all times.
9. Each Prime and Sub-contractor is responsible for having read each page of the Specifications, Drawings, Addenda and Change Orders.
10. Guard against interfering with Owner's operations.
11. These Drawings contain no provisions or procedures for on-site safety. Each Contractor and their employees are responsible to follow all laws and ordinances and provide their own engineering to provide a safe work place.
12. The locations of existing underground utilities, shown on these Drawings, are shown in an approximate way only and have not been independently verified by the Owner or its representatives. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities.
13. Services perform for this project have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in this area under similar budget and time constraints. No warranty, expressed or implied, is made.

MATERIAL INDICATIONS

Earth Backfill		Sand Fill	
Rigid Insulation		Concrete	
Concrete Block		Finished Wood	
Aluminum		Stone Fill	
Lumber (Rough)		Plywood	
Steel		Batt Insulation	

DRAWING LEGEND

+ 100.0	New or Required Point Elevation	1	Detail Number
+ 100.0	Existing Point Elevation	5.1	Page Number
+ 100.0	Existing Contours		Building Section
+ 100.0	New or Required Contours		Wall Section
A	Grid Lines		Detail Section
Room 1	Room Number		Interior Elevation
10	Door Number		Exterior Elevation
1	Wall Tag		

CONSULTANTS

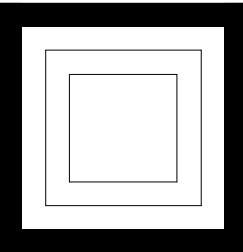
ARCHITECT	Kueny Architects (262) 857-8101 Architect of Record - Jon P. Wallenkamp	10505 Corporate Drive, Suite 100 Pleasant Prairie, Wisconsin 53158
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SHEET INDEX

1.0	Title Sheet
ARCHITECTURAL	
A-200	Salt Dome Plan
A-201	Elevations
A-202	Details and Sections

Salt Structure Conveyor Replacement
Lake County

600 Winchester Road,
Libertyville, IL



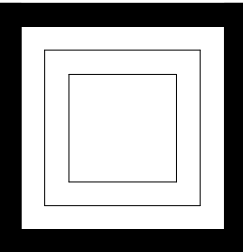
KUENY ARCHITECTS, LLC

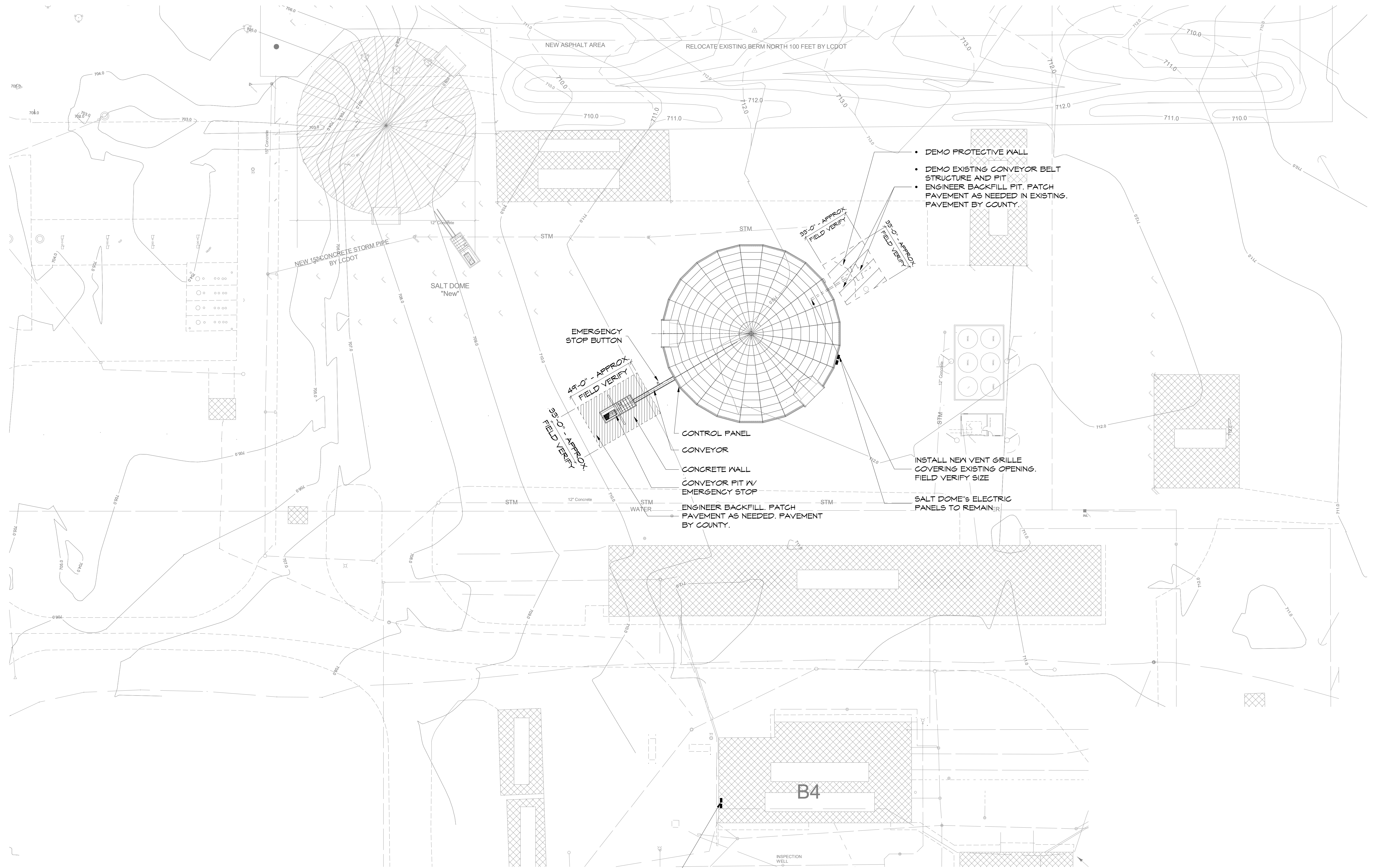
10505 CORPORATE DRIVE - SUITE 100 PLEASANT PRAIRIE, WI 53158

PHONE (262) 857-8101 FAX (262) 857 8103

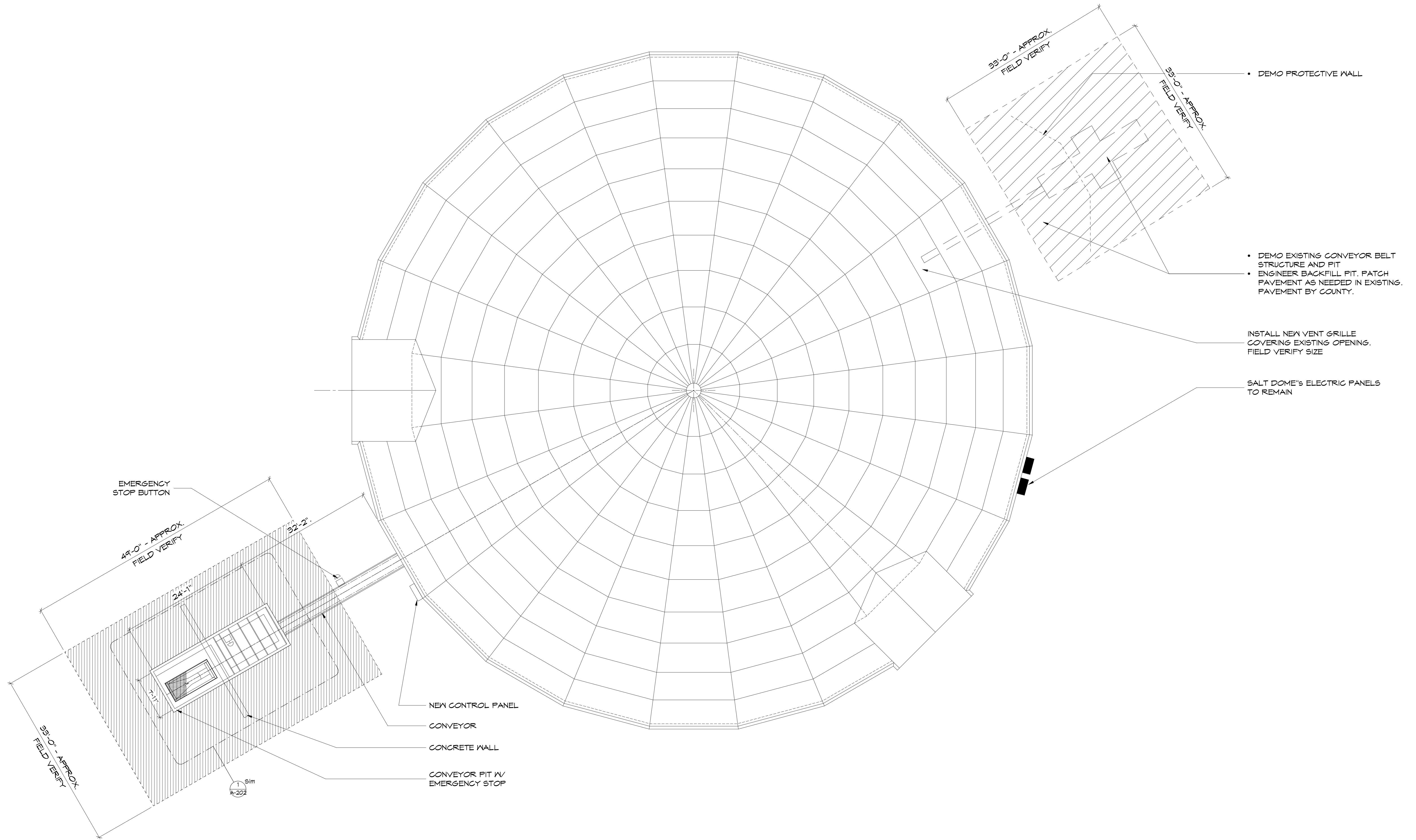
Lake County
Salt Structure Conveyor
Replacement
June 6, 2018

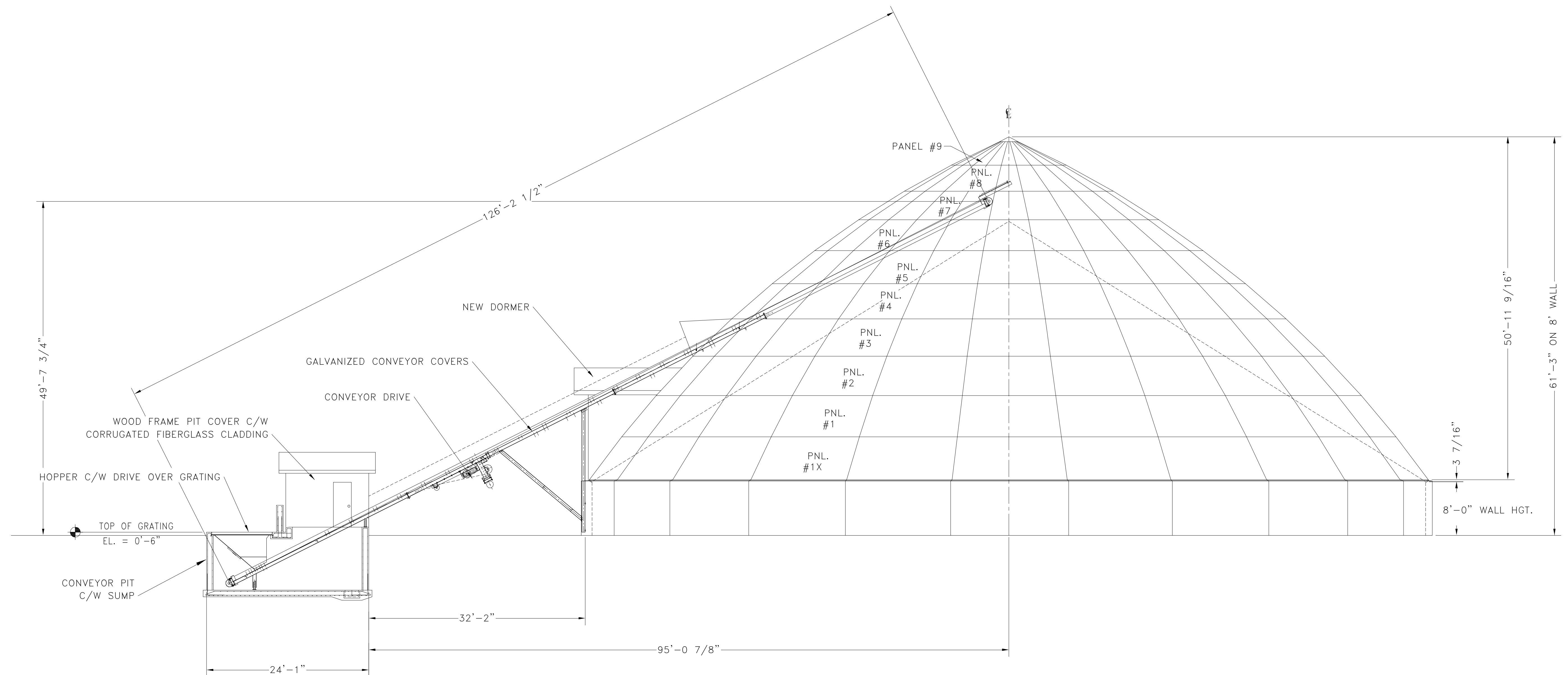
1.0





LOCATION OF MAIN ELECTRICAL PANELS
INSIDE THE SIGN SHOP LOCATED INSIDE
ON THE SW CORNER OF THE BUILDING.





ELEVATION - SECTION - 124' DIA. DOME W/ 8' WALL

NOTES:

1. CONVEYOR DESIGNED IN CONFORMANCE WITH THE CEMA MANUAL "BELT CONVEYORS FOR BULK MATERIALS". CAPACITY 200 TONS/HR (SALT).
2. ALL CONVEYOR STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 OR BETTER.
3. CONVEYOR STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
4. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI CONCRETE SHALL BE AIR ENTRAINED.
5. REBAR SHALL CONFORM TO ASTM A615, GRADE 60.

