BILL NO. S-26-11-06

SPECIAL ORDINANCE NO. S-_____

AN ORDINANCE approving the awarding of QUOTE #9742D - INSTALLATION OF NEW ASPHALT PLANT – ($6,880,058.00) by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and ALMIX for the STREET DEPARTMENT.

NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA;

SECTION 1. That QUOTE #9742D - INSTALLATION OF NEW ASPHALT PLANT between the City of Fort Wayne, by and through its Department of Purchasing and ALMIX for the STREET DEPARTMENT, respectfully for:

> CONSTRUCTION OF ASPHALT PLANT AT THE CITY OF FORT WAYNE STREET DEPARTMENT TO REPLACE THE EXISTING PLANT THAT HAS REACHED ITS END OF LIFE. THE NEW PLANT WILL HAVE MORE CAPACITY THAN THE EXISTING PLANT AND SET US UP FOR THE NEXT 25 YEARS;

involving a total cost of SIX MILLION EIGHT HUNDRED EIGHTY THOUSAND FIFTY-EIGHT AND 00/100 DOLLARS ($6,880,058.00) all as more particularly set forth in said QUOTE #9742D - INSTALLATION OF NEW ASPHALT PLANT which is on file in the Office of the Department of Purchasing, and is by reference incorporated herein, made a part hereof, and is hereby in all things ratified, confirmed and approved.

SECTION 2. That this Ordinance shall be in full force and effect from and after its passage and any and all necessary approval by the Mayor.

_____
Council Member

APPROVED AS TO FORM AND LEGALITY

_____
Malak Heiny, City Attorney

SERVICE AGREEMENT: _____

SUPPLIER NAME	CITY DEPARTMENT/CONTACT NAME
Asphalt Equipment Co., Inc. DBA ALmix	Shan Gunawardena
STREET ADDRESS 13333 Highway 24 West	STREET ADDRESS 200 East Berry Street, Suite 210
CITY, STATE, ZIP CODE Fort Wayne, IN 46814	CITY, STATE, ZIP CODE Fort Wayne, IN 46802
ATTENTION Ryder Harman	INVOICE ADDRESS 200 East Berry Street, Suite 210
TELEPHONE 260.672.3004	CITY, STATE, ZIP CODE Fort Wayne, IN 46802

Service Description	Rates
Construction of Asphalt Plant at the City of Fort Wayne Street Department	Lump sum contract. $6,880,058.00

Estimated Completion Date:	
March 15, 2028	

The following is made part of this agreement:

ALmix Quote 9742D

This Agreement is entered into between Supplier and the City. The Additional Terms and Conditions below hereof are part of this Agreement. Capitalized terms on this page are used as defined terms when the context so requires. The City may extend the Contract by mutual agreement and written notice to the Supplier.

SUPPLIER REPRESENTS THAT ANY PERSON OR ENTITY CONTRACTED OR PERMITTED BY SUPPLIER TO PERFORM AND DELIVER THE SERVICES WHO IS NOT AN EMPLOYEE OF SUPPLIER SHALL BE REQUIRED BY SUPPLIER TO COMPLY WITH THE WORKMEN'S COMPENSATION REQUIREMENTS ON THE REVERSE SIDE HEREOF.

***SUPPLIER, OR ANY PERSON OR ENTITY CONTRACTED OR PERMITTED BY SUPPLIER TO PERFORM AND DELIVER THE SERVICES THAT DOES NOT CARRY WORKMEN'S COMPENSATION INSURANCE MUST SUBMIT A VALID CLEARANCE CERTIFICATE APPROVED BY THE WORKMEN'S COMPENSATION BOARD OF INDIANA.**

SUPPLIER:	City of Fort Wayne
By (Signature):	By (Signature): Tara Schilt
Printed Name: RYDER HARMAN	Printed Name: Tara Schilt
Date: 9/23/2026	Date: 10/22/26

ADDITIONAL TERMS AND CONDITIONS

1. SERVICES. Supplier agrees to perform the Services beginning on the Begin Date and continuing until the Services are completed. Supplier warrants that the Services will be completed on or before the End Date. TIME IS OF THE ESSENCE. Supplier warrants that all Services shall conform to the Service Description, be of good quality and workmanship, and be free from defects. Supplier further warrants that all goods furnished in connection with the Services shall be merchantable and suitably safe and sufficient for the purpose for which they are normally used. Supplier warrants that it has good title to goods supplied hereunder and that they are free of all liens and encumbrances. These warranties are in addition to those implied in fact or in law. For the purposes of this Agreement, the term "Services" shall include any goods furnished in connection with the Services.

2. INVOICES. Supplier shall invoice the City for Services performed according to the Rates, Billing Interval, and Invoice Address. Invoices shall be rendered in triplicate and shall itemize the Services performed, the Service Address, and the corresponding rates and taxes, if any. Payment shall be due within thirty (30) days after the invoice date or the date of completion of the invoiced Services, whichever occurs later, provided that the City shall not be obligated to make any payment to Supplier hereunder until Supplier has furnished proof satisfactory to the City of full payment for all labor, materials, supplies, machinery, and equipment furnished for or used in performance of this Agreement or has furnished all necessary waivers of lien supported by affidavits, all satisfactory to the City, establishing that all liens

and rights to claim liens that could arise out of the performance of the Services have been waived. Payment of invoices shall not constitute acceptance of the Services, and invoices shall be subject to adjustment for defects in quality or any other failure of Supplier to meet the requirements of this Agreement. The City may at any time set off any amount owed by the City to supplier against any amount owed by Supplier or any of its affiliated companies to the City.

3. INDEPENDENT CONTRACTOR RELATIONSHIP. The relationship between City and Supplier is and shall at all times remain as independent contractors. Persons provided by Supplier to perform and deliver the Services shall be Supplier's employees under the sole and exclusive direction and control of Supplier and shall not be considered employees of City for any purpose. Supplier shall be responsible for compliance by Supplier's employees and any other person or entity contracted or permitted by Supplier to perform and deliver the Services, with all laws, rules and regulations applicable to the performance and delivery of the Services hereunder, including but not limited to employment, labor, wage and hour, health and safety, and working conditions. Supplier shall be responsible for the payment of all federal, state and local taxes and charges of any type or nature assessed with respect to Supplier's employees and any other persons or entities contracted or permitted by Supplier to provide and deliver the Services, including Social Security, unemployment, Workmen's Compensation, disability insurance and federal and state withholding. Supplier shall be responsible for providing such reasonable accommodations which may be required under the Americans with Disabilities Act, 42 U.S.C.12101 et seq. in order that any person with disabilities employed, contracted or permitted by Supplier to provide the Services to be able to perform the essential functions of such person's job-related duties. Supplier agrees to defend, indemnify and hold harmless City, to the extent permitted by law, from and against any loss, cost, claim, liability, damage or expense (including attorneys' fees) that may be asserted against or incurred by City as a result of Supplier's failure to comply with the covenants and obligations of this paragraph.

4. INDEMNITY. Supplier forever releases, discharges, acquits and agrees to defend, indemnify and hold harmless City, its officers, directors, employees, representatives, agents, departments and divisions, to the extent permitted by law, from and against all demands, damages, liabilities, costs and expenses (including reasonable attorneys' fees), judgments, settlements and penalties of every kind and nature asserted against, charged to or imposed upon City which directly or indirectly arise or are associated with the performance and delivery of the Services by Supplier, the employees of Supplier or any person or entity contracted or permitted by Supplier to provide and deliver the Services, which is claimed to be caused directly or indirectly to the negligent or intentional act or omission of Supplier, any employee of Supplier or any person or entity contracted or permitted by Supplier to perform and deliver the Services, including, without limitation, damages for personal injury, death or loss of or damage to property. City may elect to participate in the defense of any lawsuit, claim or demand in which City is a named party or in which City may have an interest by employing attorneys selected by City at City's expense or to be represented by Supplier's counsel at Supplier's expense, without waiving Supplier's defense, indemnity and hold harmless obligations to City contained herein. Supplier shall not settle or compromise any claim, suit or action or consent to entry or a judgment without the prior written consent of City and without the unconditional release of City from liability by each claimant or plaintiff. The indemnification covenants contained herein shall survive the completion of the performance and delivery of the Services.

5. LIMITATION OF LIABILITY. Supplier's liability hereunder for any loss, cost, claim liability, damage or expense (including attorneys' fees) arising out of any negligent or intentional act or omission of the performance of the obligations hereunder by Supplier, Supplier's employees or any person or entity contracted or permitted by Supplier to perform any obligation under this Agreement shall be limited to the amount of the direct damage incurred by City. Absent grossly negligent or willful misconduct by Supplier, Supplier's employees or any person or entity contracted or permitted by Supplier to perform the obligations under this Agreement, Supplier shall not be liable for any indirect, incidental, special, consequential or punitive damages of any kind whatsoever.

6. INSURANCE. Supplier shall maintain in full force and effect during the performance and delivery of the Services, and shall require any person or entity contracted or permitted by Supplier to perform and deliver the Services, the following insurance coverage:

(a)	General Liability	$1,000,000 minimum per occurrence/ $2,000,000 aggregate
	Personal & Advertising Liability	$1,000,000 any one person or organization
	Products/Completed Operations Liability	$2,000,000 aggregate
(b)	Automobile Liability, including Hired and Non-Owned Auto	$1,000,000 minimum per occurrence
(c)	Worker's Compensation*	
	Bodily Injury by Accident	$500,000 each accident
	Bodily Injury by Disease	$500,000 policy limit
	Bodily Injury by Disease	$500,000 each employee

*SUPPLIER, AND ANY PERSON OR ENTITY CONTRACTED OR PERMITTED BY SUPPLIER TO PERFORM AND DELIVER THE SERVICES WHO DOES NOT CARRY WORKMEN'S COMPENSATION INSURANCE MUST SUBMIT A VALID CLEARANCE CERTIFICATE APPROVED BY THE WORKMEN'S COMPENSATION BOARD OF INDIANA.

The Certificate of Insurance must show the City of Fort Wayne, its Departments and Divisions, as an Additional Insured and a Certificate Holder, and provide 30 days' notification of cancellation, modification or non-renewal.

All Certificates of Insurance should be sent to the following address:
City of Fort Wayne Purchasing Department
200 East Berry Street, Suite 490
Fort Wayne, IN 46802

7. HAZARDOUS MATERIALS. Supplier will provide to the City before performing any Services, a statement describing any Hazardous Materials intended and necessary for use in performing the Services. "Hazardous Materials" means any item which may be classified under federal, state, or local law, as hazardous or toxic. Supplier must comply with all federal, state, or local law in the use, transportation, and disposal of such Hazardous Materials.

8. PROGRESS REPORTS. The Supplier shall submit progress reports to the City upon request. The report shall serve the purpose of assuring the City that work is progressing in line with the schedule, and that completion can be reasonably assured on the scheduled date. This contract shall be deemed to the substantially performed only when fully performed according to its terms and conditions and any modification thereof.

9. CONFLICT OF INTEREST. Supplier certifies and warrants that neither it nor any of its directors, officers, agents, representatives, board members, or employees which will participate in any way in the performance of the Supplier's obligations hereunder has or will have any conflict of interest, direct or indirect, with the City of Fort Wayne or any of its departments, divisions, agencies, officers, directors, board members, or agents.

10. CONFIDENTIALITY OF DATA, PROPERTY RIGHTS IN PRODUCTS, AND COPYRIGHT PROHIBITION. Supplier further agrees that all information, data findings, recommendations, proposals, etc. by whatever name described and by whatever form therein secured, developed, written or produced by the Supplier in furtherance of this contract—shall be the property of the City. The Supplier shall take action as is necessary under law to preserve such property rights in and of the City while such property is within the control and/or custody of the Supplier. By this contract the Supplier specifically waives and/or releases to the City any cognizable property right of the Supplier to copyright, license, patent or other wise use such information, data findings, recommendations proposals, etc.

11. CONFIDENTIALITY OF CITY INFORMATION. Supplier understands and agrees that data, materials, and information disclosed to Supplier may contain confidential and protected data. Therefore, the Supplier promises and assures that data, material, and information gathered, based upon or disclosed to the Supplier for the purpose of this contract, will not be disclosed to others or discussed with other parties without the prior written consent of the City.

12. EMPLOYER CERTIFICATION. In accordance with I.C.§22-5-1.7, Supplier understands and agrees to enroll and verify work eligibility status of all newly hired employees of the contractor through E-Verify program or any other system of legal residence verification as approved by the United States Department of Homeland Security or the department of homeland security. Supplier further understands that they are not required to verify work eligibility of status of newly hired employees of the Supplier through the E-Verify program if the E-Verify program no longer exists. Supplier certifies that they do not knowingly employ any unauthorized aliens.

13. COMPLIANCE WITH LAWS. Supplier warrants that the Services shall be in strict conformity with all applicable local, state and federal laws including, but not limited to, the standards promulgated by the occupational Safety and Health Act, Executive Order 11246, as amended, relative to Equal Employment Opportunity and all other applicable laws, rules, and regulations, including the Civil Rights Act of 1964 pertaining to equal opportunity, Section 503 of the Vocational Rehabilitation Act of 1973, the American with Disabilities Act, Section 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974 and all applicable immigration laws and regulations including the 1986 Immigration Reform and Control Act et. seq. Supplier agrees to indemnify and hold harmless the City from and against any loss, cost, claim, liability, damage, or expense (including attorney's fees) that may be sustained because of Supplier's breach of such warranty.

14. DEFAULT. In the event that (a) Supplier breaches any warranty contained herein; (b) Supplier fails to provide the insurance certificate required herein; (c) Supplier or Supplier's insurance carrier fails to defend, indemnify, or hold harmless the City as required herein; (d) Supplier's performance of the Services violates applicable law; (e) Supplier admits insolvency, makes an assignment for the benefit of creditors, or has a trustee appointed to take over all or a substantial part of its assets; or (f) Supplier fails to perform or comply with any other provision of this Agreement, such failure, breach, or violation shall constitute a default under this Agreement.

15. TERMINATION. In the event of default by Supplier under this Agreement, the City reserves the right without liability, in addition to its other rights and remedies, to terminate this Agreement by notice to Supplier as to the portion of the Services not yet rendered and to purchase substitute services at Supplier's expense. Supplier shall reimburse the City for the cost of such substitute services upon Supplier's receipt of an invoice, therefore.

16. WAIVER. No action or inaction by the City shall constitute a waiver of any right or remedy.

17. CANCELLATION. City may at any time cancel this Agreement in whole or in part for its sole convenience upon written notice to Supplier, and Supplier shall stop performing the Services on the date specified in such notice. The City shall have no liability as a result of such cancellation, except that the City will pay Supplier the Rates for completed Services accepted by the City and the actual incurred cost to Supplier for Services in progress. These payments shall not exceed the Aggregate Price.

18. FORCE MAJEURE. Neither party shall be liable to the other or responsible for nonperformance of any of the terms of this Agreement due to unforeseeable causes beyond the reasonable control and without the fault or negligence of such party, including, but not restricted to acts of God or the public enemy, acts of government, fire, floods, epidemics, quarantine restrictions, strikes, freight embargoes, or unusually severe weather.

19. NOTICES. All notices required or permitted to be made or given hereunder by one party to the other party shall be in writing and shall be deemed to have been given when hand delivered, or on the date stated on the receipt if deposited in the United States mail in certified form, postage prepaid with return receipt requested, and addressed to such other party at its Notice Address or at such other address as may be specified by such other party by written notice sent or delivered in accordance herewith.

20. ASSIGNMENT. Any assignment, in whole or in part, of Supplier's rights or obligation under this Agreement without the prior written consent of the City shall be void. Supplier shall not use subcontractors to perform any part of the Services without the prior written consent of the City.

21. GOVERNING LAW, PREFERRED VENUE. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Indiana. The parties hereto agree that any action, proceeding, claim or dispute arising hereunder or relating hereto shall be brought and enforced in a court of applicable jurisdiction located in Allen County, Indiana and irrevocably submit to such jurisdiction and venue, which jurisdiction and venue shall be exclusive and waive any objection to such exclusive jurisdiction and venue or that such courts represent an inconvenient forum.

22. ACCESS TO RECORDS. The Supplier shall maintain all books, documents, papers, accounting records, and other evidence pertaining to the cost incurred. They shall make such materials available at their respective offices at all reasonable times during the contract period and for three (3) years from the date of final payment under the contract for inspection by the City or by any other authorized representative of city government. Copies thereof shall be furnished at no cost to the City if requested.

23. NONDISCRIMINATION. Pursuant to IC 22-9-1-10, the Civil Rights Act of 1964, and Title VI, Supplier and its subcontractors shall not discriminate against any employee or applicant for employment in the performance of this contract. The Supplier shall not discriminate with respect to hire, tenure, terms, conditions or privileges of employment or any matter directly or indirectly related to employment, because of race, color, religion, sex, disability, national origin or ancestry. Breach of this covenant may be regarded as a material breach of contract. Acceptance of this contract also signifies compliance with applicable Federal laws, regulations, and executive orders prohibiting discrimination in the provision of services based on race, color, national origin, age, sex, disability or status as a veteran.

24. MISCELLANEOUS. If any provision of this Agreement is held to be invalid or unenforceable, the validity and enforceability of the remaining provisions shall not be affected. This Agreement shall be governed by the laws of the state of Indiana and shall be subject to the exclusive jurisdiction of the courts therein. This Agreement embodies the entire agreement between the parties with respect to the subject matter hereof and supersedes all prior agreements and understanding, whether written or oral, and all contemporaneous oral agreements and understandings relating to the subject matter hereof. No agreement hereafter made shall be effective to modify or discharge this Agreement, in whole or in part, unless such agreement is in writing and signed by the party against whom enforcement of the modification or discharge is sought. The paragraph headings are for convenience only and are not intended to affect the interpretation of the provisions hereof. This agreement shall be binding on the parties hereto and their respective personal and legal representatives, successors and assigns.

10106 Smith Road
Fort Wayne, Indiana
46809
Phone: (260) 672-3004
Fax: (260) 672-3020
www.ALmix.com

QUOTATION

MADE FOR:
THE CITY OF FORT WAYNE

QUOTATION 9742D

ATTN: MR. SHAN GUNAWARDENA & MR. PETE WORMCASTLE

SEPTEMBER 23, 2026

SUBMITTED BY: RYDER HARMAN

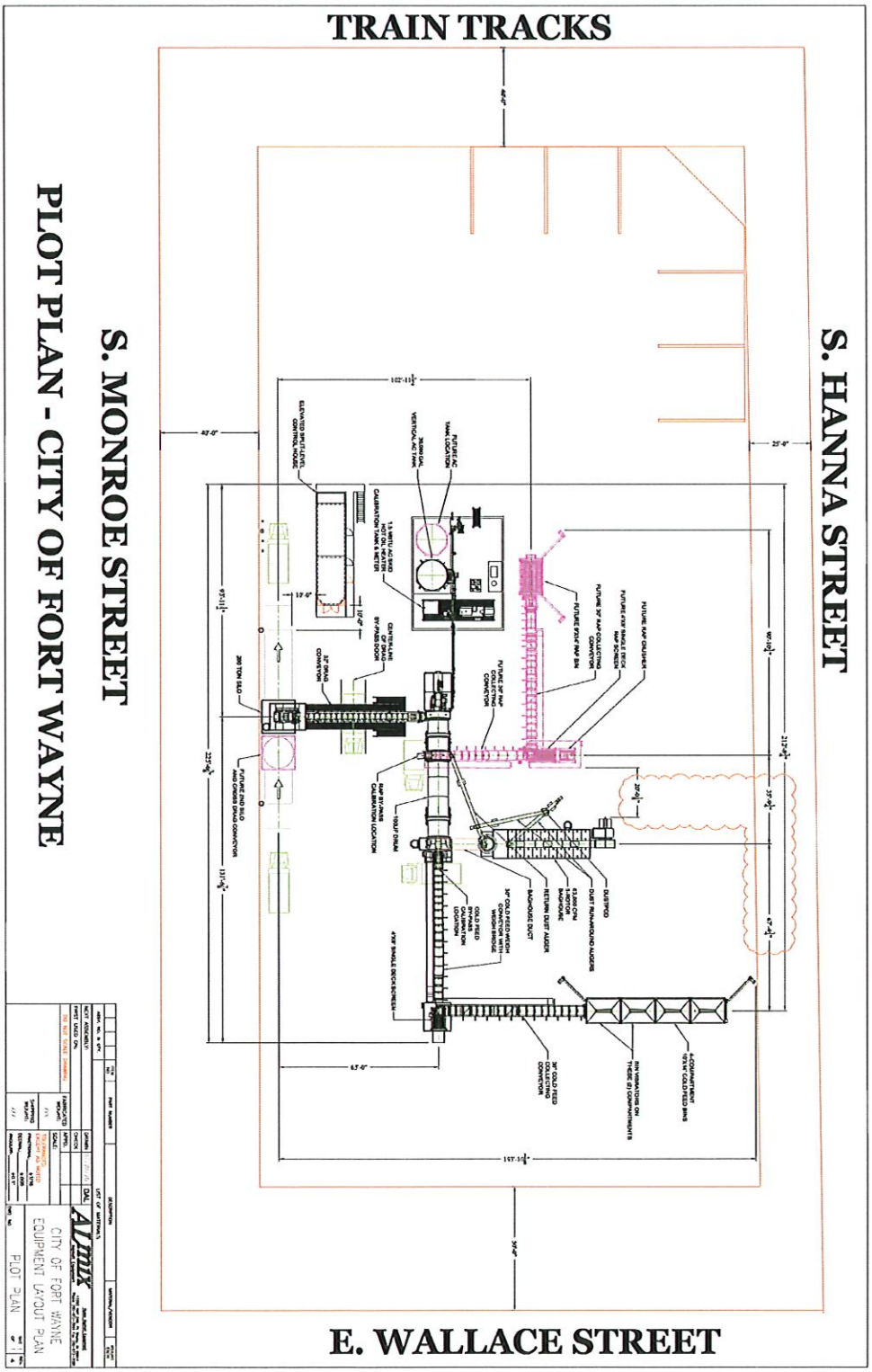
THE UF SERIES

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PROPOSED PLANT LAYOUT



September 23, 2026

The City of Fort Wayne Street Department
1701 Lafayette Street
Fort Wayne, IN 46803

Attn: Mr. Shan Gunawardena & Mr. Pete Wormcastle
Ref: Quotation 9742D

Asphalt Equipment Company, Inc. d/b/a ALmix proposes to furnish to the Purchaser in accordance with the following specifications and general conditions the machinery and/or equipment and/or services described below.

I. COLD FEED SYSTEM

A. FEEDER BINS: A four (4) compartment, skid-mounted feeder bin assembly is provided. Each compartment is constructed with steep walls (60 degrees on side walls and 66 degrees on end walls) and self-relieving feeder throats to assure consistent flow and prevent aggregate bridging. Heavy-duty screw jacks are supplied to operate the gate assemblies. Gate position is lockable and an index is provided to allow precise positioning. Each compartment is constructed from 1/4" thick steel plate and has a 10' x 14' top opening to provide an approximate 30-ton heaped capacity [based on 100lb/cu.ft. material] per compartment. The top lip and bin mid-section are each heavily reinforced with 3/8" thick bent steel plate for added strength and durability. Two-foot-high bin dividers are provided on three sides to prevent cross flow and spillage of aggregates. Two (2) compartments are fitted with multiple amplitude electric vibrators to prevent bridging. The end of the feeder bin frame is specially constructed to allow the easy expansion of additional compartments in the future.

B. BELT FEEDERS: Each compartment is equipped with a 30" wide x 8' long belt feeder assembly powered by a 5 H.P., 3/60/460v, TEFC, inverter-rated, helical gear motor through a fully digital AC flux vector drive. The flux vector drive is capable of producing 100% torque at zero speed without overheating. The feeder frames are supported to the feeder bin main frame and not to the bin walls. Massive ACME threads support the feeder frames and allow the belt clearance to the bin outlet to be fine-tuned to the aggregate size. Each belt feeder assembly includes 10" diameter lagged head pulley, 10" diameter self-cleaning tail pulley, 3-ply rated belting, 5" diameter, 20° permanently sealed, CEMA C troughing idler rollers on 8" centers, belt take-up assembly and easily adjustable flow depth control gate. Belt lacings are Flexco 140 with Flexco tape. The unique troughing roller design utilized by the belt feeders eliminates leakage without the need for troublesome rubber flashing required with flat idlers. Each belt feeder is equipped with a material flow detector which activates a sequenced shut down if aggregate ceases to flow from any belt feeder for more than a preset period of time. The belt feeder discharge point is fitted with material funnels to prevent spillage as material is transferred to the collecting belt. The belt feeder tail shaft is fitted with a magnet-mounted optical encoder to provide feedback to the Insignia Total Control System and allow automatic

feeder control. The belt feeder idlers and tail pulleys below seven (7) feet from ground elevation are guarded to OSHA standards with perimeter reinforced wire mesh guarding. All grease zerks are extended beyond the guarding for easy access.

C. COVERED COLLECTING CONVEYOR: A 36" wide collecting conveyor driven by a 15 H.P., 3/60/460v, TEFC, motor through a shaft-mounted reducer mounted at the gravity take-up for ease of servicing. The gravity take-up drive eliminates the off-loading associated with shaft mounted reducers on belt conveyors The conveyor feature 18" lagged head pulley, self-cleaning tail pulley, 3-ply rated belting, permanently sealed, CEMA C, 5" diameter x 35° troughing idlers, 5" rubber disc return idlers, belt take-up assembly, and open mesh belt guard. A spring-tensioned polyurethane blade belt scraper is mounted at the head pulley to keep the belt clean. The collecting conveyor delivers material to the aggregate scalping screen. The conveyor discharge point is fitted with a "Rock Box" which reduces fugitive emissions and wear while delivering material evenly to the slinger conveyor receiving hopper. The conveyor idlers and tail pulleys below seven (7) feet from ground elevation are guarded to OSHA standards with perimeter reinforced wire mesh guarding. All grease zerks are extended beyond the guarding for easy access. An emergency pull cord designed as a Stop Category 0 devise is located along each side of the conveyor to stop the process if required. The extended portion of the collecting conveyor includes hinged belt covers fabricated from G-90 galvanized steel to limit fugitive emissions and to protect the aggregates from the elements during a "Hot Stop".

D. BULKHEAD: A full-height bulkhead including wing walls is provided on the charging side of the feeder bin assembly to expedite plant setup. Steel hooks are provided to allow the anchoring of a dead man.

E. SKID MOUNTING: The cold feed bin assembly is skid mounted for ease of setup. 3' tall heavy steel support legs are supplied to grade with steel pads so that concrete piers need not be poured and to facilitate plant clean-up.

II. AGGREGATE PROCESSING

A. SCALPING SCREEN & SERVICE PLATFORM: A 4' x 10' single deck scalping screen is mounted over the aggregate weigh conveyor. The screen is equipped with feed box, deflector plates, 5 H.P., 3/60/460v, TEFC motor, drive sheaves and screen cloth (per purchaser specification). A walkway/platform with handrails and gated entry is provided on three sides of the screen to facilitate changing screen cloths. A stairway with a handrail is provided for accessing the scalping screen service platform.

B. COVERED WEIGH CONVEYOR & SERVICE WALKWAY: A 30" wide x approximately 60' long I-beam frame incline conveyor shall be provided to transfer materials from the scalping screen discharge hopper to the Drum Mixer mounted entry chute. The conveyor features lagged head pulley, self-cleaning tail pulley, 3-ply rated 3/16" top by 1/16" bottom skived belting, permanently sealed, 5" diameter x 35° CEMA C troughing idlers, 5" rubber

disc return idlers, a gravity-type belt take-up assembly, and open mesh belt guard. It is driven through a 15 H.P., 3/60/460v, helical gear brake motor mounted at the gravity take-up for ease and safety of servicing and elimination of the off-loading associated with head shaft mounted gear boxes. A spring-tensioned polyurethane blade belt scraper is mounted at the head pulley to keep the belt clean. The conveyor discharge point is fitted with a "Rock Box" which reduces fugitive emissions and wear while delivering material evenly to the drum mixer entry chute. This conveyor contains the Scitronics Virgin aggregate weighbridge complete with speed sensor and automatic test weight. The belt scale is designed in conformance with Handbook 44 Requirements. The rigid steel construction of the carriage assembly ensures permanent alignment with the weigh conveyor. The precision NTEP – Approved strain gauge load cell accurately weighs the virgin aggregate being conveyed. The weight signal is converted to a digital signal in the bridge transducer signal conditioner and transmitted to a digital signal processor. The load cell is insulated top and bottom with ceramic isolators and includes a heavy ground strap around the load cell for lightning protection. Three (3) 4' long hinged galvanized steel wind guards are provided to ensure accurate weighing. The weigh conveyor idlers and tail pulleys are guarded to OSHA standards with perimeter-reinforced wire mesh guarding. All grease zerks are extended beyond the guarding for easy access. An emergency pull cord designed as a Stop Category 0 devise is located along each side of the conveyor to stop the process if required. The extended portion of the aggregate weigh conveyor includes hinged belt covers fabricated from G-90 galvanized steel to limit fugitive emissions and to protect the aggregates from the elements during a "Hot Stop". A service walkway with handrail is provided on one side of the weigh conveyor with stairway access.

III. MODEL 100 UNIFLOW DRUM "UF"

A. GENERAL: The Skid Mounted Model 100 Counterflow Drum Dryer is of the counterflow design and includes a special bolt-in flight design for maximum drying and mixing efficiency, lower stack temperature and reduced fuel consumption.

B. INLET CHUTE & FIBER PORT: Aggregate is conveyed into the Drum Dryer through a gravity-style chute equipped with a multiple amplitude vibrator to enhance the flow of wet sticky materials. The ¾" AR400-lined chute includes a hinged gate to limit excess air from entering the drum mixer. The inlet chute includes an air cylinder-operated diverter chute to allow emptying of the bins or calibration of the belt scale without going through the drum mixer. A port is provided in the drum mixer, allowing for fibers to enter the drum through a blow-in system (Fiber trailer, metering system, and blow-in system provided by Purchaser).

C. UNIFLOW DRUM MIXER: The 100" diameter x 48' long counterflow drum mixer is constructed from 1/2" thick A-572 alloy steel plate. The drum entry begins with 2' of spiral flighting followed by an 18' drying zone incorporating veiling flights constructed from 1/2" thick abrasion-resistant steel (AR-500). The drum is protected under the last row of veiling flights with a bolt in heat shield, 3/8" off the drum shell and constructed of 1/4" thick abrasion-resistant steel. The 28" RAP entry incorporates bolt in RAP buckets, fabricated from ½" A36 steel to facilitate maintenance and cleaning. The drum area between each bucket is

lined with weld-in wear plates constructed of 1/4" abrasion-resistant steel. An 11' burner combustion zone incorporates our specially designed combustion flights. The ALmix combustion flights are constructed from abrasion-resistant ¼" A-514B, T-1 alloy to continually move the superheated material through the combustion zone without carrying or veiling the material through the flame. The combustion flights also act as a primary wear surface thus relieving the drum shell from direct abrasion and from the direct intensity of the burner flame. A 14' mixing zone is equipped with our specially designed castle mixing flights. Mixing flights are constructed of 1/2" thick A-572 alloy steel plate and are "bolt in" to allow the customer endless flexibility in mix zone adjustments. The first 9' of the mixing zone is lined with bolt in liners constructed of 1/4" thick abrasion-resistant steel. A 30" RAP inlet system is provided consisting of entry chutes and a shroud surrounding the drum shell thus allowing the entry of processed RAP and shingles into the dryer in the non-combustion zone. RAP, dry aggregate, return dust, and liquid asphalt are thoroughly mixed in the mixing section of the drum behind the burner flame. The final asphaltic concrete mixture is discharged from the drum mixing section into a discharge chute complete with ¾" Hardox 500 (AR500) discharge liners and a J-type thermocouple for mix temperature indication.

D. DRUM DRIVE SYSTEM & TRUNNIONS: The drum is trunnion driven through four (4) Dodge TAII, Size 7 shaft-mounted speed reducers by four (4) 40 H.P., 3/60/460v, TEFC, premium efficiency motors through a fully digital AC flux vector VFD. The provision for variable speed is particularly useful during the production of high percentage RAP mixes and Warm Mix Asphalt to allow changing aggregate veiling characteristics. The main frame features unitized construction from heavy, structural steel members with beams supporting the trunnions and drum. Four (4) 16" diameter x 12 ½" face trunnions are machined and heat treated to 500 Brinell and are fitted with TIMKEN Class C 5" diameter AP (All-Purpose) railroad bearings. The AP bearing is a self-contained tapered roller bearing, which maintains positive alignment of rollers due to its basic tapered construction. This distributes the load over the entire roller length, and prevents rollers from skewing. Each trunnion assembly is mounted on a 1" thick steel plate, allowing the assembly to be adjusted as a unit. The trunnion assemblies are mounted to trunnion supports which are pitched at an angle perpendicular to the force line through the assemblies. A centering/pivot pin is located on the trunnion assembly base at the centerline intersection of the trunnion and drum tire. This centering/pivot pin maintains centerline alignment while allowing the trunnion assemblies to be adjusted using a single-point adjuster. This system greatly increases the ease of tire/trunnion training. Indexing marks are provided to ensure the trunnion assemblies can be returned to their original factory settings. The trunnions drive two (2) 4" thick x 11" face 1045 steel tires made from one-piece forgings. The drum tires are mounted to the drum with ½" bolt-on spring plate mountings to allow for differential expansion and contraction between the tire and the dryer. Two (2) 5" thick x 10" diameter guide rollers are provided to insure the proper operating position of the drum mixer assembly. Each guide roller contains two (2) 4" double row tapered roller bearings. The contact face of each guide roller is tapered and the guide rollers are mounted at a slight angle to ensure the guide rollers maintain a consistent surface speed across the entire face of the drum tire.

E. BURNER ASSEMBLY & MAINTENANCE PLATFORM: The Model 100 UF Drum employs the Hauck MegaStar Model MS 100 burner assembly with an extended nose. The MS 100 requires no refractory-type ignition port or combustion chamber. Thus, thermal energy is imparted directly into the aggregate instead of losing heat through refractory radiation. It is a totally enclosed, total air, burner system providing all of the air of combustion. Precise control of air/fuel ratio is accomplished through VFDs without the need for troublesome and inefficient linkage systems. The burner assembly includes a high-efficiency blower driven by a 100 H.P., 3/60/460v motor via VFD control, inlet silencer, automatic temperature control, and flame safeguards. The burner capacity is 100,000,000 BTU/HR. This quotation encompasses the burning of natural gas. A natural gas safety train assembly including main gas regulator is provided. A burner maintenance platform is provided, constructed from open safety grating and includes a stairway to grade.

F. SKID MOUNTING: The drum mixer assembly is skid-mounted for ease of setup. Heavy steel support legs are supplied to grade with steel pads so that concrete piers need not be poured.

IV. BAGHOUSE & DUST RETURN

A. BAGHOUSE: The pollution control system includes an expanded discharge breeching on the drying drum. The expanded discharge breeching includes oversized entry door with ladder to provide easy access to the dryer interior. The inlet side of the bag house incorporates an integral inertial expansion area, or inertial separator, designed to capture the larger particles of dust. This is accomplished by a dramatic change in air flow velocity and direction. Capturing these larger particles lessens the wear on the bags and increases bag efficiency without the need for the extensive ductwork associated with an overhead primary collector. Material collected by the inertial collector is gravity fed directly to the return dust screw thereby circumventing the baghouse hopper auger. Design dust loading is not more than 6% minus 200 mesh material. The duct work between the dryer and baghouse is 54" diameter and is constructed from 3/16" steel plate with liners at each elbow. Duct work connecting the baghouse to the exhaust fan is designed to provide minimum pressure drop. This fabric filter type dust collector is designed to handle 63,000 CFM at an air to cloth ratio of 4.2 to 1 and operating temperatures of 230 - 400° F. Bag design is of the single wall type, elliptical design with 882, 87" long bags yielding 15,082 sq.ft. of cloth area. The bags are constructed from 14 ounce virgin NOMEX with 13% glass fiber to give better filtration on the sub-micron particle sizes. The surface of the bag is singed prior to manufacture to insure better cake release during the cleaning operation. The bag opening is provided with a flexible spring collar, which assures easy installation and replacement. This flexible collar locates, locks and seals the bag in position. The bags are arranged in sections including removable covers for inspection and replacement. The baghouse tube sheet is constructed from Corten Steel. The bags are cleaned while the baghouse is in operation by sequentially isolating each row and then creating a reverse flow of air breaking the cake of dust on the filter surface and causing it to fall into the collection hopper. The bag cleaning devices consist of independent rotating clean air nozzles that are indexed to stop at one chamber (row of bags) at a time,

closing off that chamber from the process airflow. The cleaning nozzle drive and sequence mechanism consists of a right angle gear motor with rotating eccentric drive shaft that engages a central sprocket. The mechanism moves the cleaning nozzle from row to row quickly but allows the nozzle to pause momentarily at each row. The cleaning mechanism automatically starts cleaning according to a preset time which is adjustable by the plant operator. After the nozzle completes a full cycle and returns to its parked position, a sensor cuts off power to the cleaning mechanism gear motor. The baghouse requires no compressed air for cleaning.

B. INDIANA DUST RUN-AROUND SYSTEM: The baghouse hopper section contains a 15" diameter screw conveyor driven by a 15 H.P., 3/60/460v, TEFC, motor. This dust screw runs the full length of the baghouse inclusive of the inertial expansion area. An outlet at the end of the baghouse hopper moves the collected fine dust to a 14" inclined screw conveyor driven by a 10 H.P., 3/60/460v, TEFC, motor, which conveys the fine dust to a dust handling pod or beyond the pod for waste. The dust handling pod contains high and low bin indicators. Should the rate of return dust become too great, the dust is carried beyond the pod to allow a waste pile. Attached to the bottom of the pod is a 12" diameter vane feeder driven by a 1-1/2 H.P. variable speed motor which is automatically controlled to allow a predetermined amount of dust back to the process. A 14" diameter screw conveyor driven by a 10 H.P., 3/60/460v, TEFC, motor is connected to the vane feeder to move dust from the dust pod and convey the dust to the 16" diameter primary dust screw. The primary dust screw is driven by a 15 H.P., 3/60/460v, TEFC, motor and conveys combined dust to the dust inlet on the drum mixer RAP collar. Each auger includes hanger bearings. Each dust auger includes a zero-speed sensor to signal the controls of motion. The inclined auger includes inspection plates located over the hanger bearings.

C. EXHAUSTER: The pollution control system includes a high efficiency, low energy, backward inclined BCS 542 exhaust fan with a 200 H.P., 3/60/460v, TEFC, motor equipped with variable speed drive. The exhauster is supplied with a ported exhaust stack.

D. SKID MOUNTING: Steel legs to grade and steel plate foundations are supplied to allow mounting the baghouse on a concrete slab rather than requiring forming and pouring concrete piers. *NOTE: (Baghouse will be constructed with extended legs to allow 4' of clearance below baghouse).*

V. INSIGNIA TOTAL PLANT CONTROL SYSTEM



Figure 1: Insignia Control System Main Display

A. INTRODUCTION TO ALMIX ICS (Insignia Control System)

The Insignia control system is engineered around Rockwell Automation's ControlLogix controller. The system is built on a standard-based architecture using Rockwell's Integrated Architecture components that enable multi-disciplined control and Premier Integration with today's Intelligent Motor Control portfolio. Allen Bradley Components that are used include AB MCC1756, 1734 Point I/O, and AB PowerFlex Safe Torque-off Drives. The Point I/O can be located remotely at each plant component thereby eliminating I/O cables, or locally to conform to a more traditional control house configuration. EtherNet/IP™ is a robust communications platform that unites the infrastructure. With EtherNet/IP, all network capabilities such as motion, time synchronization, HMI, intelligent motor control, process instrumentation, and safety are available on a common network infrastructure. The use of a single network helps converge control and information allowing for simplified control wiring. Simplified control wiring facilitates reduced start-up costs, advanced remote troubleshooting and service, and access to plant production data. The extensive plant production data gained by the network infrastructure leads to cloud storage options for deeper analysis. The end result is that the connected plant is delivered with cutting edge technology and enhanced productivity.

The Insignia PLC (Actually an Allen Bradley Controllogix PLC) is Ethernet connected to each bucket of the MCC. What is important to note is that ALmix's use of a networked PLC allows use of AB IntelliCENTER software to remotely monitor, configure and troubleshoot all units on the Ethernet connected network. *Customer electricians can use web browsers to monitor hardware in real time if they are not versed in Rockwell software and if they want more detailed information than what is displayed on the Insignia HMI.* The MCC doors need not be opened to perform any of the following actions:

- Overload Detection (monitor warning/trip)
- Change overload relay setting (FLA and Trip Class)
- Measure/Monitor phase currents
- Measure baseline motor current
- Ground fault detection (monitor warning/trip)
- Monitor motor thermistor
- Time to trip, time to reset
- Reset overload relay
- Event history
- Verify control power
- Verify starter operation

The Insignia Control System utilizes a rugged fanless industrial PC with Windows 10 Operating system using an Intel Core Processor with Solid State hard drives in a Raid 1 configuration for redundancy. This computer is connected to the AB ControlLogix PLC for the total control and monitoring of cold feed, RAP feed, asphalt blending, plant process and silo load out (Optional).

- Using point & click technology with full graphical operation interface, the control computer provides the plant operator with complete plant status at-a-glance for his precise control of all the equipment and the entire mixing process with ease.
- Reports - Leverage Insignia Control System (ICS) reports to make better strategic and operational decisions. ICS uses SAP Crystal Reports to pull data from a Microsoft SQL Server database located on the ICS operator PC to build a report of plant performance indicators. Without leaving the ICS operator application, the operator can view, print, or save to file (.pdf) a report. Standard reports (ex: Today's Production Report) and custom time and parameter reports (eg: Calibration Report for calibrations done on ingredient Class I Sand between July 15th and Aug 3rd,2019) are easily and quickly generated by the operator. Additionally, ALmix engineers can set up a customer specified schedule according to which reports are automatically generated and output via email to multiple accounts.
- Remote diagnostic and troubleshooting on the control system by ALmix engineers via phone line /internet connection is provided to minimize any plant downtime.
- Cloud based mix designs allow properly authorized personnel to pre-load additional mix designs from an off-site location.

B. FUNCTIONS OF ALMIX INSIGNIA CONTROL SYSTEM

- Automatic plant start-up and shut-down with sequence interlock.
- Sequence start allows operator adjusted time lags to allow for end rush.

- Automatic continuous asphalt blending control with full range of up-to-date features ensures flexibility and accuracy in the continuous mixing process.
- Automatic cold feed, RAP feed & blending control with full range of advanced control features for efficient and accurate mix production.
- Automatic switching of AC tank valves pursuant to stored mix design parameters.
- Graphical display for complete plant process visualization and information including individual motor on-off-trip status, motors running amperes, burner startup status, burner and damper percentage, continuous levels for storage, valves and flaps status, silo selection status, process temperatures, air pressures, etc.
- Entire plant heat control spreadsheet allows scheduling both hot oil and electric heat flow to all heat sustained components for optimal efficiency and economy.

C. FEATURES OF ALMIX INSIGNIA CONTROL SYSTEM

- Multi-point capability for all calibrations includes cold feeder, RAP feeder, belt-scales, silo & tank level, temperature, pressure etc. It reduces non-linearity error and improves accuracy for the full operating range.
- Automatic burner control with start-up and firing percentage status.
- Ignition diagnostic diagram displays the entire ignition sequence and pinpoints any failure to fire.
- Independent actuators for air, oil and gas valves allow precise positioning without mechanical linkages.
- Air to Fuel ratios are displayed graphically and may be adjusted infinitely.
- Natural gas flow meter(s) provided for monitoring the usage of natural gas at the main burner and hot oil heater.
- Automatic air damper control with opening percentage (or exhaust fan speed control) and drum negative pressure status.
- Compressed air pressure display.
- Integrated chart recorder for Mix Temperature and AC Temperature.
- Automatic bag house cleaning control with bag house differential pressure status.
- Automatic batcher and silo selection control with actual batcher position, conveyor, flaps and silos status.
- Interlocks, warning, settable limits and logs for added safety.

- Wide range of reports for production records and material consumption.
- Remote support provision facilitates fine tuning & troubleshooting of the control system by ALmix engineers via internet or dial-up connection.
- Plant maintenance, parts and operation manuals are stored on the system hard drive for easy reference.
- Plant wiring diagrams are stored on the system hard drive for easy reference.

D. COMPUTER HARDWARE AND CONTROL EQUIPMENT:

- Intel Core i7-10700T (Comet Lake) 2.0~4.5 GHz 8-Core Processor-based computer with RAID 1 Redundant Array (At least 2 drives) for Total Plant Control.
- Windows 10 Operating System
- One (1) 49" Super Ultra-Wide Curved Monitor for Plant Control & Monitoring
- One (1) 49" Super Ultra-Wide Curved Monitor for Silo Loadout & Cameras. (If ALmix Loadout and Camera system used)
- One keyboard with optical mouse.
- Uninterruptible power supply (UPS).
- ControlLogic programmable logic controller (PLC) that is part of the Rockwell Automation Integrated Architecture system.
- All necessary power, control and network cables.

E. DETAILS OF CONTROL FUNCTIONS & FEATURES

a) Closed Loop Controls

- The PLC automatically adjust the main burner firing to match with the operator's desired setting of hot gas temperature at the entrance to bag house or the hot aggregates temperature discharge from dryer selectable and can be switched over on the fly. In case of the set temperature cannot be achieved at maximum burner capacity (i.e. 100% or lower % set by operator), the system automatically lower the cold feed output to achieve the desired temperature. Fix burner output setting can also be done through the graphic interface. Accurate and more stable mix temperature can be achieved with ease.
- The PLC automatically adjusts the air damper (or fan speed) based on the desired dryer negative pressure set by the operator. Thus ensures stable firing without too much excess air which can result in wastage of energy and increase of dust load to bag house. In case of the set pressure cannot be

achieved at maximum damper opening (i.e. 100% or lower % set by operator) the system automatically lower the cold feed output to achieve the desired setting. Fix damper opening percentage (or fan speed) can also be done through the graphic interface on the fly for more flexibility.

- The PLC automatically control the timing of the bag house cleaning sequence based on the bag house differential pressure between the clean and dirty air plenums sets by the operator. This function eliminates unnecessary over cleaning thus prolonging bag life. Automatic adjustment of timing for cleaning interval can also be done through the graphic interface.

b) Continuous Level Monitoring & Control

- Continuous level for each hot mix silo.
- Continuous level for each asphalt tank.
- Continuous level for fuel tank. (if equipped)

c) Temperature Monitoring & Control

- Mix temperature leaving Drum Mixer (non-contact Infrared).
- Asphalt temperature after asphalt pump.
- Asphalt temperature in each tank.
- Bag house inlet gas temperature
- Bag house outlet gas temperature
- Heavy/waste oil pre-heater temperature (If equipped)

d) Current Monitoring & Control

- Plant total running ampere
- Each motor running ampere

e) Alarm & Safety Control

- No-flow switches to alert the operator of an empty bin or blocked bin
- Settable upper and lower limit of all continuous levels for warning and related safety trigger.
- Settable upper and lower limit of all temperature readings for warning and related safety trigger.
- High bag house inlet gas temperature will trigger warning and main burner shutdown.

- Additional thermostat installed at bag house gas inlet to trip the main burner at high temperature in case of 1st line protection fail to perform.
- High level switch installed on mix silo prevents further filling when silo is full.
- Feeder Control - Permits automatic control (by tachometer) virgin aggregate belt feeders. The LCD monitor will display the TPH, % desired, actual % and total accumulated virgin aggregate tons produced.
- Recycle Control - Permits automatic control (by weighbridge) of recycle belt feeder. The LCD monitor will display the TPH, % desired, actual % and total accumulated recycle tons produced.
- Warm Mix Control – This option permits the proportioning of a predetermined percentage of water into the warm mix injection tube based upon the changing rate of bitumen flow.
- Mix Design Storage - This option permits the entry of mix designs in memory and permits on stream mix design changes. The number of mixes which may be stored is limited only by hard disk space.
- Virgin Aggregate Tolerance Alarm - This feature allows the system to monitor the aggregate TPH and alarm the operator when the actual aggregate TPH is outside the tolerance setting.
- Mix Parameter Printer - Allows operator selected periodic printing of all mix parameters including AC and mix temperature.



Figure 2: Insignia Silo Loadout System

F. SILO LOADOUT CONTROLS

- Automatic Silo Loadout - Provides for the computer system to automatically dispense mix into a truck from up to six (6) silos placed over one (1) or two (2) truck scales. Automatic gate cut-off compensation is included.
- Drop and Inflight calculations are adjusted after each drop and stored for each silo. Since material properties differ between products and silos, separate Inflight values are stored for each silo thereby ensuring an accurate load for each truck.
- Silo inventories can be derived from a tons count pulse or a direct signal from a radar. Inventory is calculated from the scale head in a backweighing configuration.
- Customer Names & Addresses - Provides memory for storage of customer name and address records. The number of records is only limited by the number of customers you have.
- Product Names - Provides memory for storage of product names.
- Account/Mix Totals - Accumulation of number of loads and total tons to each account by each mix is calculated and can be displayed on reports and tickets.
- C.O.D. Price Extension - Permits the operator to enter the price per ton and the sales tax percent, thus allowing the loadout computer to generate a ticket that becomes an invoice.
  Price per ton can be list price of the material or overridden if a different price exists for a job. The Operator can be allowed to override a list price if given permission.
- Automatic Ticket Numbering - Permits the automatic sequential numbering of tickets.
- Intelligent Data Entry - Permits the operator to select ticket data by the truck's last haul or last ticket for quick selection for loadout.
- Live Ticket View - Tickets can be previewed as the load is created to ensure accuracy. In the event an error is not caught before printing change tickets are easily created.
- E-Ticketing - is included. E-mailing multiple destinations are allowed in case you need to send the ticket to the truck driver, an inspector, paving manager all at once. E-Tickets include a printable .pdf and can include items such as barcoded values which can be used for reconciliation at end user sites. Pictures collected at loading time can also be included.
- Traditional Ticketing Options - Multi-copy dot matrix printers are still available for use with zip tube systems as well as thermal printers and laser printers. Remote ticket printers can be used instead of the zip tube system to get tickets outside and in the hands of truck drivers.
- Customer reports can be created for any data field and can be sorted by any data field, date or date range. These reports can be printed or exported in electronic format such as MS Word, Excel, or PDF. Reports can be scheduled to run, export or even email automatically. Export data files can be created to transfer to back-end systems in a multitude of formats such as XML, JSON, or custom EDI.

- On premise data storage is the default option. Backups can easily be stored to an attached portable hard drive. Pricing for use of a Customer data center storage or cloud hosted storage is available.
- We support Data replication across multiple sites. In the data replication model, all data is hosted on a server, with replicated subsets existing at plants. Plants interact with the local subset directly for maximum performance. This allows for continuous operation without downtime in the event of internet outages, and seamless reconciliation once internet communications are restored.
- Off-site and/or cloud storage of live data provides data safety from theft, fire, or the mysterious machine crashes. KPI data dashboards are easily achieved once the data is in the cloud and therefore easily accessible to all interested individuals of the company.



Figure 3: Split-Level Control House Over Workshop & Parts Storage Area

VI. CONTROL HOUSE & SWITCH GEAR

A. CONTROL HOUSE: **The Control House is an Indiana State-Certified 'Industrialized Unit', stamped and approved to operate as a Control Center.** The remote plant operator's

control house is 41' long x 11' wide and utilizes a split-level design and steel tube construction. The upper level features a 270° field of vision. The lower area contains the motor control center and the Insignia Control System PLC cabinet. Each area is fitted with a side entry door and there is an interior door between the two levels. The interior is paneled and has 15 KW heat and 70,000 BTU air conditioning. The control house is insulated far in excess of traditional control houses with R-34 ceiling insulation and R-14 sidewall insulation. The slanted windows are tinted, insulated safety glass installed in aluminum frames. All walls are finished with washable FRP paneling. The floor is covered with a special commercial vinyl flooring and ample fluorescent lighting is provided throughout. Red night lights are provided.

B. SWITCH GEAR: An Allen Bradley Centerline 2100 MCC is provided for personnel safety. The electric motor control center consists of a NEMA Type 1B motor control center with vertical sections which contain the motor control devices. They are prewired and tested within a modular plug-in unit. Each full voltage bucket door contains On-Off and Auto-Manual switches. The starter devices are electromagnetic vertical lift design with double break cadmium oxide silver contacts. All starters are equipped with E300 electronic overload relays which provide accurate and dependable motor protection. The E300 overload adds phase loss, ground fault protection and diagnostic features over a standard bimetallic overload. The overload also features side mount communication capabilities to connect into devicenet or ethernet networks. Standard current is 3/60/460v. The 2000 Amp main breaker is housed in an outdoor rated enclosure attached to the back of the control house to reduce arcflash exposure. Graceport indicators are supplied on the line and load side of the main breaker as well as on the incoming lug compartments inside the control house. An EtherNet network system is provided to interconnect the MCC with the plant computers through a single cable. Electronic soft starts are provided for all motors in excess of 75 H.P. which are not provided with variable speed control. All wiring for newly supplied equipment is included in tray cable from plant motors to the motor control center. Cable trays are provided with to support the SO cable. Motor wiring is connected to the control house through distribution blocks or directly connected to the MCC. A 50 Amp breaker is supplied for plant night lighting.

C. NETWORKED PLC: The ALmix Insignia Control System is designed around the value added by a Networked PLC. The use of a single network helps converge plant control and plant data. The end result is that the connected plant is delivered with smarter technology, enhanced productivity, and a far more secure environment. ALmix's use of a networked PLC allows the use of AB IntelliCENTER software to remotely monitor, configure and troubleshoot all units on the Ethernet-connected network. The MCC doors need not be opened to perform any of the following actions:

- Overload Detection (monitor warning/trip)
- Change overload relay setting (FLA and Trip Class)
- Measure/monitor phase currents
- Measure baseline motor current
- Ground fault detection (monitor warning/trip)
- Monitor motor thermistor
- Time to trip, time to reset

- Reset overload relay
- Event history
- Verify control power
- Verify starter operation
- Unit documentation

D. WORKSHOP AND PARTS STORAGE AREA: The above-described split-level control house sits on top of a lower workshop and parts storage lower building. The 41' lower area contains a workshop and critical parts storage area. The lower area is fitted with two (2) side entry doors as well as an overhead door to accommodate larger parts. A 200-amp, 120 Volt distribution panel is located in the wall in this lower area. The interior is paneled and has 15 KW heat and 70,000 BTU air conditioning, and features the same finishes and insulation as the upper control house.

VII. HOT MIX SURGE SYSTEM

A. INCLINED DRAG CONVEYOR & STAIRWAY: A 32" wide x 87' long single chain drag type conveyor will be supplied. The drag conveyor is driven by a 75 H.P., TEFC, 1800 RPM, 3/60/460v electric motor controlled by a variable frequency drive. The variable speed control with preset minimum speed greatly extends chain and sprocket wear life. The motor is direct drive to an in-line planetary gear speed reducer with output drive sprocket, then through a 200 series reduction drive chain to a sprocket keyed to the end of the head shaft. It is rated at 450 tph @ 100 fpm. The chain is #9856, 6" pitch roller type having alloy steel side bars, carburized bushings, case hardened pins and hardened rollers. Slats are 7" high, constructed from 3/4" thick AR-360 abrasion resistant steel plate and are attached to the chains by use of an "M" attachment. The conveyor operates at approximately a 50° incline for high efficiency and low abrasion. The head sprockets consist of a heat treated segmental 11 tooth rim which bolts to the hub assembly via 23 SAE Grade 8 bolts. The head sprockets are keyed to a 6-7/16" diameter head shaft. The head shaft assembly may be adjusted by means of two hydraulic cylinders to maintain proper chain tensioning. A hydraulic hand pump and visual index is provided for ease of maintenance. The tail shaft is 4-7/16" diameter including 10 tooth segmented sprockets. A zero speed switch is fitted to the tail shaft to detect any change in conveyor speed. Critical intermediate hold down idlers incorporate spring loaded bearings through an exclusive pivot system to cushion against shock loads. The conveyor main frame is constructed from two pre-cambered W36-135 I-beams. The conveyor floor consists of a 3/8" subfloor featuring bolt-in 1" thick Ni-Hard castings which incorporate 4" high side liners. The conveyor floor is equipped with electric heat strips to aid in maintaining mix temperature. Hinged, insulated doors protect the heat strips. Hinged, removable drag conveyor covers are formed from light gauge plate as opposed to fire prone plywood covers used by competitive units. Conveyor is furnished with access stairs each side, fabricated from 8" channel. A work platform is provided at the motor and gearbox level for ease of drive train maintenance. A stairway from the cross drag walkway affords safe access to this work platform. Full 360-degree platform is complete with 6' tall railings and kickplates is provided for the utmost

safety. The drag conveyor tail shaft is equipped with a magnetic speed switch to alert the operator and/or hot stop the process in the case of a critical slow speed.

B. BY-PASS SYSTEM: A reject door operated by two (2) 5" diameter air cylinders is located midway up the drag conveyor. By-pass chute allows the operator to by-pass the silo for direct loading of trucks or to avoid contamination of previously stored mix.

C. SILO: One (1) 200-ton surge silo is provided over one drive-thru. The side walls of the silo are of 1/4" thick steel plate, 100 percent double-welded construction. The cone and 4' into the barrel of each silo is lined with 1/2" thick pre-engineered Durafrax 90% fine grain high alumina weld-a-tile material. The outer skin is .032 pre-painted aluminum. Double-wall deck section consists of 3/16" four-way safety tread-plate outside, 100 percent continuous welded to silo with 16 gauge steel sheet inside, resting on angle clips (approx. one per foot circumference) and includes covered manhole for access to inside. The upper deck section is supported by structural steel beams. Side walls extend vertically down past cone section to leg frame to form protective skirt. The 3/8" thick steel cone is secured in tension by a continuous weld along the cone-silo seam, and in compression by eight 1/4" x 9" steel gussets spaced regularly around the major diameter, making possibility of cone separation extremely remote. A 55° taper slope to 30" discharge opening is provided. Double clam doors are actuated by two 4" diameter air cylinders. High level bin indicators are provided. Main frame and support legs of heavy structural wide flange steel beams bolted to the silo furnishes 12' wide x 12' high driveway clearance. Square bearing pads and cross bracing are included. The main gates are designed to automatically close in the case of a power failure. A low pressure safety switch is provided to automatically close the main gate if system air pressure drops below 70 psi. An OSHA-approved 6' high handrail with kick plate completely encircles the silo tops with access gained from the drag conveyor stairway. Continuously reading radar-type level gauges are provided for each silo. The silo cone section and gates are electrically heated to aid in maintaining mix temperatures. The drag conveyor tail shaft is equipped with a magnetic speed switch to alert the operator and/or hot stop the process in the case of a critical slow speed.

D. INSULATION & CONE HEAT: The silo is fully insulated against heat loss with spun fiberglass; ten (10) inches installed in two layers within top deck section and four (4) inches installed within cone and sidewalls, all seams overlapped for greatest effectiveness in preventing cold spots, and two inches in the clam type discharge gates. The silo cone sections and gates are electrically heated to aid in maintaining mix temperature.

E. SAFETY GATES: Two (2) independently driven, remotely controlled slide gates are fully insulated against heat loss. These gates are closed when the silo is sealed for storage or in the event of a silo main gate failure. Each gate is forced tightly against a neoprene seal by a ramp wedge system to seal the compartment from ambient air. The cylinders are mounted horizontally to provide maximum power. The safety gate system is designed to close automatically in the case of low air pressure.

F. SILO BATCHER & STORAGE SEAL: A top-of-silo batching device on the silo charges the silo without building a conical pile of material in the center, thus reducing the possibility of material segregation. The batcher has a 5-ton capacity and is constructed from 1/4" thick steel plate and includes two (2) batcher gates. Vertical sidewalls on the batchers bolt to a clear opening on the silo top. This design eliminates the problem of mix buildup on the silo top. Once the prescribed quantity of mix has been collected, the computer control automatically actuates two (2) 4" diameter air drive cylinders which open both batcher gates simultaneously to discharge the mix in a batch. Each batcher is lined with 1/2" thick pre-engineered Durafrax 90% fine grain high alumina weld-a-tile material. Hinged screen mesh guards protect plant personnel from operating air cylinders. A rotary bin indicator is provided as a back-up device. A steel slide gate operated by two (2) air cylinders is provided to seal off the batcher for overnight storage. A grease seal assembly pumps a small bead of grease into a channel under the door to provide an air tight seal between the stored mix and ambient air. Hydrocarbons coming off the stored mix create an inert atmosphere hovering over the mix.

G. AUTO LUBRICATION: A remote PLC/PC based automatic lubrication system is supplied for critical bearings with non-rotating grease zerks located on the main drag conveyor and silo top equipment. Automatic lubrication extends bearing life, enhances efficiency, and promotes the safety of maintenance personnel. For purposes of this Quotation, Auto lube will be supplied for drag conveyor and silo top bearings. The system is easily expandable to include other units. The Insignia Control System is equipped to control the greasing via manual operation or automatic operation according to an operator-set schedule for each unit, with read-out readily available from the ICS computer.

H. AIR COMPRESSOR: A Curtis NxB-22, 30 H.P. rotary style air compressor mounted on a 120-gallon receiver with automatic water dump trap and a built-in refrigerant style air dryer is provided to ensure dry air and thereby extend valve and cylinder life. All air piping is provided in flexible hose.

I. TRUCK SCALE: One (1) 70' x 11', 135-ton nominal capacity, 50-ton CLC capacity, low profile Cardinal ARMOR steel deck truck scale featuring SmartCell technology is provided. The truck scale is constructed from 12" I-beams with 5/16" steel deck. Scales ship from the factory with load cells and stands pre-installed. There are no moving parts below the steel deck. Each load cell stand employs a unique ball and cup system that uses gravity for load cell centering which eliminates the need for check-rods and bumper bolts. Since the cell circuitry is internal to the digital load cells, the need for a junction box and associated wiring is eliminated. Digital load cells are calibrated to the system at the factory before shipment, thereby greatly reducing setup time. Digital load cells are daisy-chained through metal braided, rodent-proof load cell cables linked by cable connectors. The need for wiring back to a summing box is eliminated since the digital load cells communicate directly with the indicator. No AC power is required to be sent to the scale. Bolt-on 8" high side rails are included for the scale.

J. TRUCK SIGNALING SYSTEM: Traffic control lights are supplied for truck signaling. A red/green/forward/reverse light is mounted at the scale entrance and exit of each scale to

notify truck drivers when they may approach for loading. A light is mounted at each silo loadout area to notify the truck driver of the correct silo to load from.

K. TICKET DELIVERY: A remote ticket printer is supplied in a weatherproof enclosure to deliver tickets to truck drivers. This eliminates the need to lay the PVC associated with a pneumatic ticketing system.

L. ELECTRIC HEAT CONTROL: The Insignia Control System contains an electric heat scheduling page which allows the operator to schedule the heating period for each electrically heated unit in the hot mix storage system.

VIII. LIQUID ASPHALT SYSTEM

A. ASPHALT TANK: This system includes one (1) ALmix Model VCT-30, 30,000-gallon vertical, hot oil coiled, asphalt storage tank. The tank shell is constructed from ¼" thick A-36 steel plate throughout. The entire shell is fabricated with joggled seams in accordance with UL-142 standards. The top head is constructed from ¼" steel plate while the bottom heads are 5/16" for increased strength. The bottom head is encased in a 10" beam frame to allow space for 6" of fiberglass insulating the tank bottom. The tank top section is insulated with 6" of fiberglass and covered with ¼" thick checker plate to allow a non-slip surface for foot traffic. The tank body is insulated with 4" of fiberglass and covered with a pre-painted aluminum skin. Hot oil coils constructed from 2" schedule 40 tested pipe are arranged in the bottom of the tank for efficient heat transfer to the liquid asphalt. 800 lineal feet of pipe are provided for the tank to allow a quick temperature rise. A 3-way electric motor-operated valve is positioned to allow hot oil to flow to the tank coils when the tank temperature controller sensing the asphalt temperature calls for heat. Each tank is also supplied with a 3/4" vertical hairpin to prevent pressure buildup during springtime startup. A thermometer is installed in the tank side wall for temperature indication. Each tank is complete with lifting lugs, shipping saddles, 3" flanged, hot oil jacketed fill connections, 3" flanged hot oil jacketed supply and return connections, 2-1/2" flanged hot oil circulating connections, 4" tank vent and overflow with external outlet just above grade, 3" tank drain with locking valve, 24" quick access manhole on top including an 8" hinged inspection port and a 24" diameter bolted side manhole. A lockable 3/4" sampling valve is included for each tank. A pressure-type level gauge with high-level alarm is supplied. A caged ladder with rest platform is provided for access to the tank tops. The ladder includes the Miller Saf-T-Climb System with rail and attaching harness as required by OSHA on all fixed ladders above 24' since November of 2018. A handrail with kick plate encloses the entire top section of the tank for the utmost concern for safety.

B. INSULATED VALVES, PIPING & SAFE SAMPLE SYSTEM: Jacketed piping is provided for all the components quoted. All asphalt valves are rated to 450 degrees F. All asphalt lines and valves will be insulated. The Insignia Total Control will display all AC tank temperatures and levels. A center-heated flexible line is provided to connect the metering pump package to the drum mixer. The AC line from the metering pump system to the drum mixer contains a

(1) Sihi circulating pump driven by a 15 H.P., 3600 RPM, 3/60/460v motor, Y-strainer, expansion tank with gauge glass assembly, thermometer, and pressure relief valve.



Figure 4: Reign of Fire Heater Control Panel

C. HEATER CONTROL & REMOTE MONITORING: The ALmix HC-150 is equipped with the ALmix Reign of Fire® (ROF) HMI Touchscreen Hot Oil Heater Control for monitoring and operation of the hot oil heater. ROF is an Allen Bradley PLC-based control system. The control system utilizes a 19" HMI display for local and remote control. An industrial remote access router is supplied for customer remote viewing of the HMI. This feature also allows ALmix service personnel to connect, troubleshoot, and update the HMI and PLC. The included router can be connected to the internet through the use of an Ethernet cable, enabling remote capabilities without the need for an additional cellular contract and associated monthly bill. If internet access is not available, ROF can be upgraded to include a cellular-connected router that enables the router's remote capabilities. The HMI display provides key information on the hot oil heater's status and performance as well as the ability to view and adjust heater settings, schedules, and alerts at the touch of a finger. The ROF Heater Control includes burner control, annunciation information, and scheduling. The burner control provides smooth temperature control of the oil. The annunciation information provided on the Control Display allows quick troubleshooting by visually pinpointing the location or source of a burner-related problem. Scheduling allows the operator to configure the heater to be off when not needed but still be in a ready position for the next run. The following circuits are monitored:

1. E-Stop
2. HOH Burner
3. Webster Temperature Switch
4. HOH Pump Status
5. Oil Level
6. Oil Pressure

safe sampling device. The ALmix Safe Sampling System is a totally enclosed AC sampling design that enables the seamless dispensing of liquid asphalt directly from an AC line while eliminating the risks associated with open sampling. The access door interlock design ensures that the sample valve remains securely closed while the access door is open allowing personnel to conveniently place or remove sampling containers. The sampling control valve further reinforces safety measures by preventing the opening of the sample valve unless the safety door is properly closed. The system is incorporated into an AC line and is equipped with a heated sample valve for uninterrupted liquid flow. Sampling can be safely observed through a full-view, high-temperature glass window.

C. AGITATOR PORT: A port for the future provision of adding an ALmix top-mounted tank agitation unit is provided.

IX. AC LIQUID HANDLING SKID

A. GENERAL: Our skid-mounted liquid AC handling system is designed to accommodate the hot oil heater, ac metering pump, calibration tank and a major portion of the ac piping that is factory fitted and mounted on a skid for quick and easy setup and teardown. This allows for a clean, quick and professional installation and minimizes pipe and pump misalignments associated with single component installations.

B. HOT OIL HEATER: An ALmix Model HC-150 helical coil type heater with 1,500,000 BTU/HR output capacity is provided to heat the liquid asphalt storage system. The fully automatic unit is complete with heat exchanger, circulating pump, burner, expansion tank, manifold and control system. The helical coiled tube heat exchanger provides for a controlled flow design of maximum thermal efficiency. The coil is schedule 40 seamless pipe close wound and welded. The coil is placed in the heater so that it can expand and contract without fatigue cracking. The last two turns are spaced approximately one inch apart to allow for thermal expansion. The burner fires down the center of the coil with the combustion gases traveling the full length of the coil. The hot gases make a return pass over the outside of the coil and exhaust through the stack at the burner end of the heater. This 12 in. diameter stack includes rain cap with screen and high temperature limit control. The shell of the heater is fabricated from 3/16" steel plate and is lined with 2" thick high temperature ceramic fiber blanket. Front and rear doors provide access to the coil. The rear door includes a sight glass for viewing the flame pattern. The heater and all components are skid mounted. The 80 gal. expansion tank is provided mounted, piped and wired to the heater shell. The expansion tank includes two lines with valves piped to the tank for purging the system during startup. The expansion tank also includes low oil cut off and sight level gauge. The low oil level control is mounted on the expansion tank and set so that the tank must be filled to the quarter full level. A glass sight gauge is furnished for visual checking. The Webster gas burner utilizes the lo-hi-lo firing mode. The burner includes 1/2 H.P. blower, electric spark ignition, on/off firing with automatic air control, control transformer, lo-fire switch, Honeywell flame safety controls with flame failure bell, fuel pump and first out annunciator. The oil circulating system includes one

7. High Oil temperature safety limit
8. High Stack temperature safety limit

D. HEATER ALERT: The ALmix Reign of Fire® (ROF) control system has a built-in alert system. Each alarm that you see on the display can be configured to be sent out to a single contact in the contact list or a whole group. The alert can be configured to be sent as an email or a text message. Once a contact has received a message, the system can be connected to remotely to see what corrective action is needed.

E. MICRO-MOTION BLENDING EQUIPMENT: The asphalt pump package consists of a 3" jacketed, positive displacement asphalt pump with jacketed relief valve driven by a 15 H.P., AC flux vector drive. A 3" jacketed basket style strainer is located on the suction side of the pump. Following the pump assembly is a jacketed, 3-way, air cylinder actuated by-pass valve to pass asphalt to the drum (through the Meter) or recirculate the asphalt to the tank. Next is a 2" Micro Motion, Coriolis type, mass flow meter which is used to monitor the asphalt flow rate. A gauge metal case and a flexible insulating jacket are provided for the flow meter. No external tach or thermocouple is needed with the flow meter thereby reducing maintenance and possible downtime. The meter automatically adjusts for changes in product density due to temperature changes.

F. CALIBRATION TANK: A 1,000-gallon capacity tank constructed from ¼" thick steel plate and 7-gauge flanged heads is provided for calibration of the asphalt meter. The tank contains 40' of 2" diameter heating coil for even, safe indirect heat transfer. A mounting structure featuring three load cells and a summing box is provided.

X. AC TRANSFER PUMP

A. TRANSFER PUMP: A 3" jacketed Viking positive displacement asphalt pump with an O-Pro® Cartridge seal is provided to unload incoming asphalt tankers. The pump is complete with jacketed relief valve, jacketed basket strainer and 15 H.P., 3/60/460v electric motor drive and piping. The O-Pro® Cartridge seal uses O-rings and gaskets in combination with a lubricating grease to provide a robust seal that keeps AC from leaking from the pump. This seal does not require periodic repacking or re-tensioning of the seal gland. The seal's enhanced leak prevention improves operational efficiency, prevents loss of product, and reduces clean-up time and costs.

B. TRANSFER UNLOAD HOSE & LIFTING TREE: A 12', 3" stainless steel hot AC transfer hose will be provided complete with a lifting tree to raise, drain and store the hose. Truck side of hose to be provided with a female 3" cam lock fitting. *NOTE: (The lifting tree will be shipped loose to be installed on the containment wall next to the transfer pump).*

XI. SPECIAL CONDITIONS, NET EQUIPMENT PRICING & PAYMENT

A. CAPACITY: The ALmix Model 100UF Drum Mixer is designed to produce 150-300 TPH depending upon aggregate and moisture characteristics while complying with Indiana State and Federal air pollution control laws in effect at time of order. The above guarantees are limited by ALmix right to supply the additional larger or more efficient equipment to correct any deficiency at no additional expense to the Purchaser.

B. PLANT EQUIPMENT NET PRICE & PAYMENT: The net price for the plant equipment portion is $5,446,900.00 F.O.B. Factory Ft. Wayne, Indiana.

C. BASIS OF COMPENSATION & TOTAL PRICE: This will be a lump sum contract. The total cost as outlined in **Paragraph XIX (FULL PROPOSAL PRICING BREAKDOWN)** is $6,880,058.00. ALmix has provided the City with a breakdown of costs (See XIX. FULL PROPOSAL BREAKDOWN) for the various phases of the project as follows:

- Plant Design & Specification
- Equipment and Material Purchase
- Annual Maintenance
- Foundation Design
- Civil Site Design & Engineering
- Plant Site Preparation & Foundations
- Equipment Delivery to Jobsite
- Installation & Commissioning
- Teardown and Trade-in of Existing Asphalt Plant

D. PAYMENT TERMS: Compensation/payment to ALmix shall be made in accordance with the City's RFP on a monthly basis. The City of Fort Wayne shall be invoiced based on a percentage of completion of each component listed above. Payment for any and all Approved Change Orders shall be compensated according to the same procedure.

XII. ANNUAL MAINTENANCE PLAN – ALmix PLANT PERFORMANCE PROGRAM:

To maximize equipment reliability, extend plant service life, and minimize unplanned downtime, ALmix will provide a comprehensive Plant Performance Program for a period of one (1) year following final plant commissioning.

During each month of the production season, an ALmix Service Engineer will visit the plant for one (1) day to perform a comprehensive inspection of the facility, including:

- Mechanical inspection
- Electrical inspection
- Automation diagnostics

- Calibration verification
- Safety system inspection
- Lubrication review
- Plant performance review

Following each visit, the ALmix Service Department will provide the City with a written report including:

- Comprehensive inspection report
- Recommended repairs
- Prioritized maintenance list
- Recommended replacement parts
- Operational and performance recommendations

Following (or near the conclusion of) the first full production season, ALmix will perform a comprehensive annual performance review of the plant, including:

- Burner tuning and combustion optimization
- Emissions equipment inspection
- Wear component inspection (drag liners, drum flights, conveyor belting, belt scrapers, chains, sprockets, etc.)
- Hot oil heater performance and efficiency evaluation

A written report summarizing equipment condition, recommended maintenance items, anticipated wear components, and operational recommendations will be provided to assist the City in preparing for the following production season.

Dedicated Technical Support

The City will have direct access to the ALmix Parts and Service Department located in Fort Wayne, Indiana. A dedicated ALmix service representative will be available during normal business hours to provide technical assistance, operational guidance, troubleshooting support, and maintenance recommendations.

When appropriate, ALmix will assist plant personnel remotely through telephone support and the Insignia Automation Suite's remote diagnostic capabilities to quickly diagnose issues and minimize downtime. Should on-site assistance become necessary, ALmix will coordinate field service personnel to respond as efficiently as possible.

As the original equipment manufacturer, ALmix remains committed to supporting the City's asphalt plant long after commissioning, helping maximize equipment uptime, production efficiency, and the long-term return on the City's investment.

YEAR 1 ANNUAL MAINTENANCE PLAN PRICE: $20,000.00 for Year 1

XIII. FOUNDATION DESIGN

A. FOUNDATION DESIGN: ALmix has developed a complete foundation design package specifically for the proposed asphalt plant based upon the equipment configuration included in this proposal, the project layout, and the site information available at the time of design. The foundation design also includes the design of stockpile retaining walls for on-site storage of the City's aggregates to be used at the plant. The proposed design follows the design of the stockpile retaining walls at the existing City of Fort Wayne Asphalt Plant. The retaining walls for the new plant are designed as pictured on the proposed plot plan.

FOUNDATION DESIGN PRICE: $49,200.00

XIV. CIVIL SITE DESIGN & ENGINEERING

A. CIVIL SITE DESIGN: ALmix will provide professional civil engineering and site design services for the proposed asphalt plant site through a qualified civil engineering consultant (Engineering Resources, Inc.) Services will include topographic and ALTA/land title surveying, private utility locating, coordination with the project geotechnical engineer and surveyor, and preparation of construction documents for the proposed site improvements. Civil design will include site demolition and layout plans, grading and drainage, drives, parking and laydown areas, storm sewer, sanitary sewer and domestic water utilities, erosion control, code-required landscaping, and associated project specifications. Gas, primary electrical power and telecommunications may be shown for coordination purposes; design of these systems will be by the City.

B. PERMITTING AND CONSTRUCTION SUPPORT: Civil engineering services will also include preparation and submission of the required Site Plan filing to the City of Fort Wayne, along with erosion-control permitting through the City of Fort Wayne MS4 program and Indiana Department of Environmental Management (IDEM). Construction-phase support will include responding to contractor questions related to the civil design, participation in the pre-construction meeting, review of applicable shop drawings, and attendance at up to three construction progress meetings as required. Permit application fees are not included.

C. STORMWATER AND ADDITIONAL SCOPE: Final stormwater requirements remain subject to coordination and review by the City of Fort Wayne. **Whether on-site stormwater detention or the use of a water quality unit will be required has not yet been determined. Final stormwater requirements remain subject to completion of the civil design and approval by the applicable authorities and can be provided by ALmix under a separate proposal or Change Order if requested.** Any engineering, surveying, design, permitting, agency coordination, studies, revisions, resubmittals, construction documents, additional concrete work, or other professional services required as a result of the foregoing and not expressly included in Section XIII.A or XIII.B are excluded from the Contract Sum and, if

required, shall constitute additional services subject to a separate proposal or written Change Order.

D. CIVIL ENGINEERING CONDITIONS AND QUALIFICATIONS: ALmix and its civil engineering consultant do not warrant or guarantee approval by any governmental or regulatory authority. Services required as a result of agency comments or requirements materially beyond those reasonably anticipated from the defined scope, including additional studies, hearings, redesign, calculations, submissions or resubmissions, shall constitute additional services.

Civil engineering services and pricing are based upon the accuracy and completeness of information furnished by the Purchaser, utility owners, governmental entities and other project consultants. Revisions necessitated by inaccurate, incomplete, or subsequently changed information shall constitute additional services.

Revisions resulting from changes to the plant layout, property limits, access, utilities, operating requirements, equipment configuration, project phasing, construction sequencing or other Purchaser-directed changes after commencement of design shall constitute additional services.

ALmix shall be entitled to an equitable extension of the project schedule for delays resulting from governmental review, permitting, third-party utility coordination, Purchaser decisions, additional services, differing site conditions or other causes beyond ALmix's reasonable control.

CIVIL SITE & ENGINEERING PRICE: $79,250.00

XV. PLANT SITE PREPARATION & FOUNDATIONS

A. SITE PREPARATION & FOUNDATION SCOPE: The required site preparation and concrete foundation work has been developed based upon the requirements of the ALmix asphalt plant equipment, the current ALmix foundation plans, and the geotechnical information provided for the proposed plant site. ALmix will provide the required excavation, subgrade preparation, forming, concrete placement, and finishing associated with the asphalt plant foundations and concrete flatwork shown on the applicable plans. ALmix's subcontractor will coordinate required foundation and subgrade inspections with the Allen County Building Department (ACBD) and will provide permitting associated with its specific scope of work; the master construction permit shall be provided by the City.

The concrete and foundation scope includes excavation of the concrete foundations and pads shown on the plans, with excavated spoil hauled off site; installation of No. 304 aggregate subgrade beneath flatwork to the plan depths, including 3" aggregate beneath 4" concrete and 4" aggregate beneath 6" concrete; forming of foundations and flatwork; and placement

and broom finishing of concrete in accordance with the applicable foundation plans and specifications.

B. SITE GRADING FOR CONCRETE SCOPE: Site preparation will include grading necessary to establish a buildable stone pad in the immediate asphalt plant construction area. This work includes cutting and removing up to 4" of existing site material over an area of up to 50,000 square feet, hauling the resulting spoil off site, and furnishing, placing, grading, and compacting up to 8" of No. 53 limestone over an area of up to 50,000 square feet. This scope is intended to provide the stone working area associated with the plant and concrete construction and does **not** include additional grading or drainage improvements required to establish final site drainage.

C. SILO & AC TANK FARM SUBGRADE IMPROVEMENT: Based upon the geotechnical findings provided for the project site, additional subgrade improvement is included beneath the proposed hot mix silo and AC tank farm foundation areas. This work includes undercutting unsuitable material to a depth of up to 8 feet beneath the silo and AC tank farm areas, encompassing approximately 5,200 square feet, and hauling the excavated material off site. The excavated areas will be backfilled with No. 53 limestone to a depth of up to 8 feet, installed and compacted in approximately 12" lifts to the required ground surface elevation prior to foundation construction.

D. EXCLUSIONS: Underground foundation removal and other buried obstructions are excluded unless specifically identified within the quoted scope. No winter-condition costs have been included; these costs will come into effect and require a Change Order, should the City's project approval timeline result in wintertime construction of the foundations. Construction of the final stormwater collection, detention, drainage piping, structures, water-quality facilities, and related civil improvements is also not included in this foundation/site preparation scope. Final stormwater requirements remain subject to completion of the civil design and approval by the applicable authorities and may be provided by ALmix under a separate proposal or Change Order if requested.

E. SITE PREPARATION & FOUNDATION CONDITIONS & QUALIFICATIONS:

The site preparation, subgrade improvement, and foundation pricing contained within this proposal has been developed with consideration of the geotechnical information now available for the proposed asphalt plant site. Accordingly, the additional excavation and replacement of unsuitable soils beneath the proposed silo and AC tank farm with No. 53 limestone, as specifically described in XIV. Section C above, has been incorporated into the quoted scope and shall not be considered an unforeseen condition solely by reason of the geotechnical findings upon which this scope is based.

The quoted work is based upon the locations, depths, areas, quantities, soil conditions, groundwater conditions, and recommendations identified or reasonably inferable from the geotechnical information, current foundation plans, and other project information available to ALmix and its subcontractors as of the date of this quotation. The included silo and AC tank

farm subgrade improvement is specifically limited to approximately 5,200 square feet and an excavation/replacement depth of up to 8 feet. The concrete-area site grading scope is limited to removal of up to 4" over 50,000 square feet and placement of up to 8" of compacted No. 53 limestone over 50,000 square feet.

Should actual field conditions differ materially from the geotechnical information or other information upon which this proposal is based, or should excavation expose unsuitable soils extending deeper or laterally beyond the limits included above, additional undercutting, excavation, spoil removal, imported fill, aggregate, compaction, compaction testing, dewatering, stabilization, foundation modification, or other remedial work required as a result shall be considered additional work and subject to an equitable adjustment to the Contract Sum and/or Contract Time by written Change Order. Likewise, changes resulting from revised geotechnical recommendations, civil or structural design revisions, governmental requirements, inspector or engineer direction, or Owner-directed changes occurring after the date of this quotation shall be considered additional work.

This proposal assumes that no rock excavation, buried concrete, abandoned foundations, undocumented underground utilities or structures, hazardous or contaminated materials, excessive groundwater, or other concealed physical conditions materially differing from those identified in the information furnished for bidding will be encountered. If such conditions are encountered, ALmix will notify the City and evaluate the required corrective work. Associated engineering, testing, labor, materials, equipment, trucking, disposal, schedule impacts, remobilization, and other costs shall be subject to an equitable adjustment to the Contract Sum and/or Contract Time by written Change Order. Where immediate action is reasonably necessary to protect persons, property, the Work, or the project schedule, ALmix may proceed with reasonable corrective measures following notice to the City, and such work shall remain compensable.

Final foundation excavations and prepared subgrades remain subject to required field inspection and testing. Should testing, inspection, or the Geotechnical Engineer of Record identify additional remediation beyond the work specifically included herein, such remediation shall constitute additional work.

GROUNDWATER / DEWATERING: No continuous groundwater control, water quality units, well-point systems, treatment or disposal of groundwater, excavation shoring necessitated by groundwater, or other extraordinary dewatering measures are included unless expressly stated. Any groundwater condition requiring such measures shall constitute additional work and be subject to a written Change Order or other mutually agreed written authorization.

QUANTITY OVERRUNS: All excavation, disposal, trucking, imported fill, aggregate, concrete, reinforcing steel, dewatering, stabilization, and other site-work quantities included herein are based upon the limits and quantities specifically stated in this proposal and the project information available as of the quotation date. Quantities exceeding those included limits, whether resulting from actual field conditions, inspector or engineer direction, revised plans, governmental requirements, or differing subsurface conditions, are not included in the

Contract Sum and shall be performed only as additional work under a written Change Order or other mutually agreed written authorization.

SITE PREPARATION & FOUNDATION PRICE: $960,670.00 USD

XVI. EQUIPMENT DELIVERY TO JOBSITE

A. DESCRIPTION: Transportation of all ALmix-supplied equipment from our manufacturing facilities in Fort Wayne, Indiana, to the City of Fort Wayne's proposed asphalt plant site. Price includes loading, factory crane rental, securing, qualified transportation, coordination of deliveries, and staged unloading.

EQUIPMENT DELIVERY PRICE: $113,375.00 USD

XVII. TURNKEY PLANT INSTALLATION

A. TURNKEY PLANT SETUP OVERVIEW: ALmix shall provide turnkey installation services for the new proposed asphalt plant, including project coordination, project labor, mechanical installation, electrical installation, startup, commissioning, calibration, and operator training. Pricing includes lifting equipment (cranes, manlift, etc.) for the project.

TURNKEY PLANT SETUP PRICE: $378,163.00 USD

XVIII. EXISTING PLANT TEAR DOWN

A. EXISTING PLANT TEARDOWN: ALmix shall provide labor, equipment, supervision, and lifting equipment necessary to dismantle and remove the existing asphalt plant equipment from the project site. The work includes the systematic disassembly of the existing plant, removal of major process equipment, structural steel, conveyors, ductwork, piping, electrical components associated with the plant, and loading of salvaged materials for transport or disposal as directed by the City. Purchaser shall have emptied any unsed materials from the existing tanks, feeder bins, drum, drag and silo prior to Almix's disassembly of the existing plant. This scope includes removal of the existing asphalt plant equipment only. Removal of existing foundations, underground utilities, hazardous materials, contaminated materials, and site restoration beyond that specifically identified in this proposal is excluded unless expressly noted otherwise.
Teardown shall be concluded within one (1) calendar year from the commencement of operations of the new plant installation.

TEARDOWN PRICE: $122,500.00 USD

Please see trade-in value of existing plant below in Section XVIII. FULL PROPOSAL PRICING BREAKDOWN.

XIX. FULL PROPOSAL PRICING BREAKDOWN

The contract prices for the goods and services quoted herein are as follows:

Plant Equipment Net Total F.O.B. Factory	$5,446,900.00
Annual Maintenance Plan	$20,000.00
Foundation Design	$49,200.00
Civil Site Design and Engineering	$79,250.00
Site Prep. & Foundation Installation	$960,670.00
Equipment Freight to Jobsite	$113,375.00
Installation, Commissioning, Training	$378,163.00
Existing Plant Teardown	$122,500.00
Bond Cost	$110,000.00
Trade in Value of Existing Asphalt Plant	($400,000.00)
TOTAL PROJECT	**$6,880,058.00**

XX. SUPPLEMENTAL INFORMATION

A. START-UP SERVICE: ALmix will furnish the services of a field engineer to supervise the erection and/or setting up of the equipment furnished within the scope of this quotation and will assist and instruct the employees of the Purchaser in the operation thereof.

B. MANUALS: ALmix will furnish digital copies of a parts and service and operational instructions manual.

C. PURCHASER REQUIREMENTS: The following is a list of items and services which are the responsibility of the Purchaser:

1. Any and all governmental taxes, duties, tariffs, or levies.
2. Application for all necessary permits unless expressly identified as included within ALmix's scope elsewhere in this proposal, including the Master Construction Permit.
3. All permit application fees.
4. Additional services associated with variances, rezoning, or a Primary Development Plan submission are additional T&M services.
5. Purchaser shall be responsible for all additional costs associated with requirements arising from final agency review, unforeseen site or soil conditions, variances or rezoning, additional permitting, public roadway improvements, environmental permitting, traffic studies, or other services outside the defined Civil Site Design & Engineering scope.

6. All environmental investigation, characterization, remediation, handling, treatment and disposal associated with hazardous, contaminated or regulated soil, groundwater or materials encountered at the project site, unless expressly included herein.
7. Additional excavation, spoil disposal, imported fill, aggregate, stabilization, dewatering, shoring or other corrective work resulting from subsurface or groundwater conditions differing from the geotechnical information and quantities specifically included in this proposal.
8. Utility relocation or modification, including unidentified or incorrectly located utilities, unless expressly included herein.
9. Any winter-condition measures required as a result of the Purchaser's schedule, approval process, permit timing or other delays.
10. Provide material storage bulkheads if required.
11. Contract all required air testing.
12. Ramp for feeder bins.
13. All paving & striping where required (outside of foundation installation).
14. Incoming power to MCC including site main disconnect.
15. Night lighting if required.
16. Supply and application of all lubricants and heat transfer oil.
17. High-speed internet connection.
18. Certification of installations by IN PE if required.
19. Additional equipment for "blue smoke" abatement if required.
20. Provide all loaders and trucks and operators for calibration.
21. Provide truck spray down system if required.
22. Provide drag conveyor spray down system if required.
23. Provide gas lines up to main regulator (main regulator supplied by ALmix).
24. Provide additional electrical if required by inspectors, e.g. disconnects at motors, wiring in conduit, UL Approval, etc.
25. Additional if IN or County certified electrical contractors required.
26. Additional if union labor required.
27. All other items not specifically included in this proposal.

XXI. TERMS & CONDITIONS OF SALE

1. ACCEPTANCE & DELIVERY: This proposed contract for sale (QUOTATION) is expressly subject to the terms and conditions herein expressed. This quotation becomes a binding agreement between the parties only after it has been signed by the Purchaser and then accepted by a duly authorized officer of ALmix in Ft. Wayne, Indiana. Upon delivery Purchaser agrees that Purchaser shall inspect each product received immediately upon receipt and shall promptly notify ALmix in writing of any non-conformity or defect. Failure to immediately provide such notice shall constitute acceptance of the product. Title shall pass to Purchaser upon delivery to a common carrier. All claims for loss in transit shall be made upon the carrier by the Purchaser. Purchaser shall be responsible for all transportation charges unless otherwise stated herein. ALmix shall not be liable for any delay in delivery of the products or

services described herein or for any damages suffered by Purchaser by reason of said delay, when the delay is caused directly or indirectly, by fire, flood, accident, riot, acts of God, war, governmental interference, strikes, embargoes, labor shortage, materials shortage, transportation shortage or any other cause beyond Almix's control.

2. PAYMENT & SECURITY INTEREST: Payment terms are as stated elsewhere within this Quotation. If payment has not been made in full prior to or before delivery of the products and services described herein, or if other debts, obligations and liabilities of the Purchaser to ALmix now exist or hereafter arise then Purchaser hereby grants to ALmix a security interest in the products described herein to secure payment by the Purchaser of all amounts due hereunder. The equipment shall remain personal property in all respects notwithstanding the manner of affixation of the equipment to reality. Purchaser agrees to execute any instrument or document considered necessary by ALmix to perfect its security interest in the equipment, including, but not limited to financing statements.

3. TAXES: Prices contained within this contract (Quotation) do not include any taxes applicable to any product, part or other goods or services sold by ALmix. In addition to the purchase price set forth herein, Purchaser shall pay to ALmix upon demand the amount of any sales, use, excise, right of doing business or similar taxes imposed by any federal, state or local taxing authority within the United States or internationally. It is hereby noted that should Purchaser elect to pickup the equipment with Purchaser owned trucks then sales tax at the current rate applicable will be charged on all of the equipment. This tax is unavoidable, regardless of whether the owner has a tax resale number in another state and also is applicable to all municipal, state and federal agencies.

4. WARRANTY: Except as otherwise provided herein, ALmix shall repair, or at its option replace F.O.B. point of shipment, any parts furnished hereunder which within one (1) year from date of shipment are found to be defective in design, workmanship, or material, provided operation of the equipment by Purchaser has been in accordance with generally approved practice as instructed by ALmix service personnel or set forth in ALmix or ALmix's vendors service manuals, if any, and provided that the Purchaser notifies ALmix in writing as soon as such defect becomes apparent and ceases operation of defective parts until repaired or replaced. Equipment or parts not manufactured by ALmix carries only the warranty offered by the manufacturer thereof which warranty ALmix will make available to the extent permissible by the manufacturer to Purchaser without recourse to ALmix. Used equipment offered by ALmix is offered "As is, Where is" and carries no warranty whatsoever.

EXCEPT AS ABOVE STATED, ALmix MAKES NO IMPLIED WARRANTY OF MERCHANTABILITY, NO IMPLIED WARRANTY OF FITTNESS FOR A PARTICULAR PURPOSE, AND THERE ARE NO EXPRESS WARRANTIES EXTENDING BEYOND THE TERMS HEREOF. THE PARTIES FURTHER AGREE THAT ALmix, IS NOT LIABLE TO PURCHASER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUESTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS, RESULTING FROM ANY BREACH OF WARRANTY OF ANY TERM OF THIS CONTRACT (QUOTATION).

5. CANCELLATION: This agreement may not be suspended or cancelled except with ALmix's prior written consent and, if given, then only after Purchaser reimburses ALmix for expenses,

damages, and losses including but not limited to lost profits incurred as a result of said cancellation or suspension.

6. POSTPONED DELIVERY: If, through no fault of ALmix, delivery is delayed or postponed, then Purchaser shall pay to ALmix any additional costs including but not limited to reasonable storage and/or re-handling fees arising from such delay or postponement, together with the balance remaining unpaid on the contract price.

7. CONTROLLING LAW AND JURISDICTION: This contract and all questions regarding the performance of the parties hereunder shall be controlled according to the laws of the State of Indiana. Purchaser hereby agrees to the jurisdiction of the State of Indiana to settle all disputes arising out of this contract.

8. BACK-CHARGES AND ALLOWANCES: ALmix shall not be called upon to make any allowance for material, labor, repairs or alterations made for its account unless authorized beforehand by ALmix in writing.

9. LATE CHARGES AND ATTORNEY'S FEES: Purchaser agrees that in the event any amount payable by Purchaser to ALmix remains unpaid for more than 30 days, a service charge of 1.5% per month (18% per annum) or any portion thereof shall accrue on such unpaid amount beginning on the thirty-first (31st) day after such date payment is due. If the indebtedness, including late charges, arising out of this or any other transaction between ALmix and Purchaser is placed in the hands of an attorney, Purchaser will pay all costs of collection, including without limitation, court costs and reasonable attorney's fees.

10. NON-ASSIGNABILITY AND COMPLETE UNDERSTANDING: The rights and the liabilities of the parties hereunder are non-assignable. This agreement constitutes a complete understanding of the entire agreement between ALmix and Purchaser, superseding all prior quotations and understandings both written and oral. Modifications to this agreement shall only be allowed if agreed to in writing by both parties.

XXII. SIGNATURES

RESPECTFULLY SUBMITTED BY:

ALmix

By_____
Name: Ryder Harman, Sales.

ORDER BY PURCHASER
The foregoing quotation is hereby offered as an order by Purchaser.

Date: _____

ACCEPTANCE OF ORDER BY COMPANY
The foregoing order is hereby accepted At Ft. Wayne, Indiana, as of the date Of acceptance.

ALmix

By:_____ Date_____
Name: A. Michael Shurtz, Pres.

The City of Fort Wayne

Signature:_____

Name/Title_____

10106 Smith Road
Fort Wayne, Indiana
46809
Phone: (260) 672-3004
Fax: (260) 399-2444
www.ALmix.com

RFQ RESPONSE

MADE FOR:

THE CITY OF FORT WAYNE, INDIANA

RE: RFP#1 – PW 2026 – Asphalt Plant

AUGUST 13, 2026

THE UF SERIES

ITEMS TO BE INCLUDED IN PROPOSAL:

A. Provide a detailed history of your company along with your experience performing similar types of work.

Founded right here in Fort Wayne, Indiana, ALmix is a family-owned manufacturer specializing in the design, engineering, manufacturing, installation, and service of high-performance asphalt mixing plants and related equipment. For decades, ALmix has supplied equipment to asphalt producers, contractors, and municipalities throughout the United States and internationally, earning a reputation for durable equipment, innovative engineering, and responsive customer support.

Unlike many equipment suppliers, ALmix provides complete, integrated asphalt production solutions. Our capabilities cover every component of asphalt plant production, including a full line of plant automation solutions. Every major component is engineered to operate as a coordinated system, resulting in improved reliability, simplified maintenance, and long-term operating performance.

The proposed 100UF skid-mounted asphalt plant is not a prototype or newly introduced design. Its proven production design has been successfully manufactured, installed, and commissioned for numerous customers throughout North America. ALmix has completed multiple installations of the proposed 100UFS plant configuration in recent years, giving our engineering, manufacturing, and field service teams extensive experience with every phase of the project—from fabrication through commissioning.

ALmix routinely performs complete turnkey projects that include equipment manufacturing, freight coordination, mechanical erection, electrical integration, plant calibration, startup, operator training, and final commissioning. Our experienced field service personnel work closely with owners throughout the installation process to ensure each plant is erected safely, commissioned efficiently, and operating at its designed production capacity.

As a Fort Wayne-based company, ALmix offers the City of Fort Wayne a unique advantage through our proximity to the project site. Our engineering staff, manufacturing facilities, parts department, and field service personnel are all located locally, allowing for rapid technical support, efficient project coordination, and long-term service after the plant is placed into operation – all of which has been demonstrated over the years since ALmix commissioned the City's existing ALmix asphalt plant. Few manufacturers can offer the City the combination of local engineering, project management, experienced field service personnel, and decades of proven success delivering complete turnkey asphalt production facilities – coupled with the premier service and excellent partnership the City's Street Department has come to expect from the team at ALmix.

Beyond project completion, ALmix remains committed to supporting its customers throughout the life of the equipment. We maintain a dedicated service department capable of providing preventative maintenance, troubleshooting, replacement parts, software support, plant upgrades, and emergency field service. This long-term commitment has

resulted in many repeat customers who continue to partner with ALmix on plant expansions, upgrades, and additional asphalt plant projects.

The City of Fort Wayne can be confident that this project will be supported by an experienced manufacturer with decades of asphalt plant expertise, a proven history of delivering turnkey installations, and a local team committed to the long-term success of the City's asphalt production operations.

B. **Provide a narrative specifically detailing your approach to your pre-construction and construction phase of services. Identify what your expectations of the Owner and the Contractor's team are during this phase.**

ALmix approaches every asphalt plant project with a structured project management process designed to minimize risk, maintain schedule, and ensure a successful startup. Our approach emphasizes early collaboration between ALmix, the City, and all project stakeholders to identify critical milestones, coordinate responsibilities, and maintain clear communication throughout the project.

Pre-Construction Phase

Following contract award, ALmix will assign a dedicated Project Manager (Sales Manager, Ryder Harman) who will serve as the primary point of contact throughout the duration of the project. The Project Manager will coordinate engineering, manufacturing, procurement, shipping, installation, startup, and commissioning activities while providing regular project updates to the Owner.

During the pre-construction phase, ALmix will perform the following services:

- Conduct a project kickoff meeting with the Owner to establish communication protocols, review project milestones, and confirm project responsibilities.
- Develop and distribute equipment general arrangement drawings, foundation layouts and design, loading information, and utility requirements.
- Provide all necessary equipment information required to support permitting activities, including emissions data, utility requirements, equipment specifications, and process information.
- Coordinate manufacturing schedules, quality control inspections, and shipment logistics.
- Develop an installation sequence and preliminary commissioning schedule.
- Conduct regular progress meetings to review engineering, manufacturing, delivery, and construction milestones.

Throughout this phase, ALmix maintains close communication with the Owner to proactively identify and resolve potential issues before they impact construction.

Site Civil Work and Foundation Construction

Prior to equipment installation, ALmix will coordinate and oversee the construction of the plant foundations and associated site civil work in accordance with the approved structural drawings and geotechnical recommendations. This phase establishes the foundation for a successful plant installation and is carefully sequenced to maintain the overall project schedule.

Work performed during this phase includes:

- Site layout and construction staking.
- Earthwork, excavation, grading, and subgrade preparation as required.
- Installation of engineered fill and compaction in accordance with project specifications and geotechnical recommendations.
- Construction of reinforced concrete foundations, pedestals, grade beams, and equipment pads.
- Installation of anchor bolts, embedded steel, conduits, and other required foundation embeds.
- Coordination of underground utilities and electrical stub-ups serving the asphalt plant equipment.
- Foundation surveying and verification of anchor bolt locations and elevations prior to equipment erection.
- Concrete curing, quality control inspections, and preparation of foundations for equipment installation.

Throughout the foundation construction process, ALmix will coordinate closely with the Owner, structural engineer, geotechnical engineer, and civil contractor to ensure the work is completed in accordance with the project drawings and schedule. Particular emphasis will be placed on dimensional accuracy and proper installation of anchor bolts and embedded items to facilitate an efficient mechanical erection phase.

Upon completion of the foundation work, ALmix will perform a final inspection of the foundations prior to mobilizing equipment erection crews.

Construction Phase

Once equipment begins arriving on site, ALmix's field service personnel will oversee the mechanical erection, equipment alignment, startup, calibration, and commissioning of the asphalt plant.

Construction phase activities include:

- Coordination of equipment deliveries and unloading.
- Mechanical erection of all supplied equipment.
- Equipment alignment and mechanical inspection.
- Electrical checkout and coordination with the electrical contractor.
- Instrumentation and controls verification.

- Plant calibration.
- Functional testing of individual systems.
- Initial plant startup.
- Performance verification.
- Operator and maintenance personnel training.
- Final commissioning and project turnover.

Throughout construction, ALmix's project team will remain in regular communication with the Owner and installation personnel to monitor progress, address field questions, and maintain project schedule.

Owner Responsibilities

To facilitate an efficient installation and commissioning process, ALmix anticipates the Owner will provide or coordinate the following items:

- Incoming electrical service to the plant and connection to the plant's main electrical disconnect.
- Incoming natural gas service and connection to the plant's primary gas regulator.
- Procurement of all required building, utility, environmental, and operating permits. ALmix will provide all equipment data, drawings, emissions information, and technical support necessary to assist with the permitting process.
- Coordination and scheduling of all required emissions testing and air compliance testing.
- High-speed internet service to the plant to support the ALmix Insignia Automation Suite, remote diagnostics, software updates, and technical support.
- Site paving and grading beyond the equipment foundation areas provided within ALmix's scope of work.
- Installation of required fire hydrants and associated fire protection infrastructure.
- Coordination of other site contractors, utilities, and owner-furnished work not specifically included within ALmix's scope.

For full Purchaser requirements, please view the attached Quote 9742B.

Asphalt Plant Project Philosophy

ALmix believes successful asphalt plant projects are built on communication, planning, and accountability. Our objective is to work collaboratively with the Owner throughout every phase of the project—from engineering and manufacturing through startup and long-term operation—to deliver a facility that is commissioned safely, operates reliably, and provides decades of dependable service.

C. Provide a comprehensive Project Schedule for the Project. This schedule should reflect design phase activities, permitting, and all construction phase activities, material delivery timeframes as well as closeout activities. Include innovative strategies and/or concepts that you may use to improve the project schedule and increase the efficiency of the Project.

Milestone	Estimated Schedule
Geotechnical Investigation / Foundation Design Finalization	August 14, 2026
Notice to Proceed	September 29, 2026
Project Kickoff Meeting	Early October 2026
Project Management Plan & Communication Protocols Established	Early October 2026
Preliminary Engineering & Equipment Layout Review	October 2026
Permit Applications Submitted	October – December 2026
Long-Lead Material Procurement	November 2026 – January 2027
Manufacturing Engineering & Shop Drawings	November 2026 – February 2027
Plant Fabrication Begins	January 2027
Site Preparation Activities	Spring 2027
Utility Coordination	Spring – Summer 2027
Site Civil Work & Foundation Construction	June – August 2027
Foundation Cure & Survey Verification	August 2027
Plant Fabrication Complete	October 15, 2027
Equipment Shipment to Project Site	Late October 2027
Mechanical Erection	November – December 2027
Electrical Installation & Integration	January – February 2028
Instrumentation, Controls & Functional Testing	February 2028
Plant Calibration	February 2028
Initial Startup & Commissioning	February – March 2028
Operator & Maintenance Training	February – March 2028
Final Performance Verification	March 2028
Final Project Closeout & Documentation	March 2028
Plant Turnover to City Personnel	March 15, 2028

D. Describe your approach to managing punch-lists and warranty work.

ALmix approaches punch-list completion and warranty support through a structured process focused on clear documentation, accountability, timely communication, and long-term support of the City's asphalt plant.

Punch-List Management

Punch-list items will be identified throughout installation, testing, and commissioning rather than deferred until the end of the project. This allows issues to be documented and addressed as individual systems are completed and placed into operation.

ALmix's Project Manager (Ryder Harman) will serve as the City's primary point of contact and will maintain a consolidated punch list identifying:

- The outstanding item and its location.
- The party responsible for resolution.
- The planned corrective action.
- The target completion date.
- The current status of the item.

Items affecting safety, plant operation, commissioning, or regulatory compliance will receive the highest priority. ALmix will provide periodic status updates and coordinate access, labor, materials, subcontractors, and replacement components as required to complete the work.

Before final acceptance, ALmix will conduct a joint project walkthrough with City representatives. Any remaining items will be documented, assigned, and scheduled for completion. Once all applicable items have been resolved, ALmix will provide confirmation for project closeout.

Rather than viewing punch-list completion as the conclusion of the project, ALmix considers it the transition from project delivery to long-term customer support.

Warranty Administration

ALmix's standard equipment warranty provides that, except as otherwise stated in the Contract, ALmix will repair or, at its option, replace F.O.B. point of shipment any parts furnished by ALmix that are found within one year from the date of shipment to be defective in design, workmanship, or material.

Warranty coverage is subject to the following conditions:

- The equipment must have been operated in accordance with generally accepted practices and the instructions provided by ALmix service personnel, ALmix manuals, or applicable vendor manuals.
- The City must notify ALmix in writing as soon as a suspected defect becomes apparent.
- Operation of the affected or defective component must cease until it has been evaluated, repaired, or replaced.
- Equipment and components not manufactured by ALmix are covered only by the warranty provided by the original manufacturer. ALmix will make those vendor warranties available to the City to the extent permitted by the manufacturer.
- Used equipment, if any, is provided "As Is, Where Is" and carries no warranty.

Upon receipt of written notice, ALmix will review the reported condition, collect the necessary operating and maintenance information, and determine the appropriate next step. Initial evaluation may include telephone support, review of photographs and operating data, or remote diagnostics through the Insignia Automation Suite. When an on-site inspection is necessary, ALmix will coordinate qualified service personnel to investigate the issue.

If the condition is confirmed to be covered under the warranty, ALmix will proceed with repair or replacement in accordance with the contractual warranty terms. Any freight, field labor, travel, removal, installation, or other costs not expressly covered by the Contract will be addressed with the City before work proceeds.

E. **Provide a detailed cost breakdown of items associated with the various components of the plant installation process as identified in the specifications. Include any items not listed in the specifications as additional costs i.e. maintenance plan.**

Please see attached/associated quotation 9742B.

F. **Provide a routine and preventative maintenance plan to keep the plant in good operational condition.**

As described in quote 9742B:

ALmix PLANT PERFORMANCE PROGRAM

To maximize equipment reliability, extend plant service life, and minimize unplanned downtime, ALmix will provide a comprehensive Plant Performance Program for a period of one (1) year following final plant commissioning.

During each month of the production season, an ALmix Service Engineer will visit the plant for one (1) day to perform a comprehensive inspection of the facility, including:

- Mechanical inspection
- Electrical inspection
- Automation diagnostics
- Calibration verification
- Safety system inspection
- Lubrication review
- Plant performance review

Following each visit, the ALmix Service Department will provide the City with a written report including:

- Comprehensive inspection report

- Recommended repairs
- Prioritized maintenance list
- Recommended replacement parts
- Operational and performance recommendations

Following (or near the conclusion of) the first full production season, ALmix will perform a comprehensive annual performance review of the plant, including:

- Burner tuning and combustion optimization
- Emissions equipment inspection
- Wear component inspection (drag liners, drum flights, conveyor belting, belt scrapers, chains, sprockets, etc.)
- Hot oil heater performance and efficiency evaluation

A written report summarizing equipment condition, recommended maintenance items, anticipated wear components, and operational recommendations will be provided to assist the City in preparing for the following production season.

Dedicated Technical Support

The City will have direct access to the ALmix Parts and Service Department located in Fort Wayne, Indiana. A dedicated ALmix service representative will be available during normal business hours to provide technical assistance, operational guidance, troubleshooting support, and maintenance recommendations.

When appropriate, ALmix will assist plant personnel remotely through telephone support and the Insignia Automation Suite's remote diagnostic capabilities to quickly diagnose issues and minimize downtime. Should on-site assistance become necessary, ALmix will coordinate field service personnel to respond as efficiently as possible.

As the original equipment manufacturer, ALmix remains committed to supporting the City's asphalt plant long after commissioning, helping maximize equipment uptime, production efficiency, and the long-term return on the City's investment.

G. **Provide pricing for removal of the existing City of Fort Wayne Asphalt Plant. Provide a trade-in value for the facility to be deducted from the total cost of the new plant project.**

Please see attached/associated quotation 9742B.

H. **Provide a copy of your standard General Liability insurance coverage.**

Please see attached/associated General Liability Insurance documentation.

I. The Contractor shall provide a letter from a bonding agent or surety directly addressing their ability to perform and the surety's willingness to provide performance and payment bonds on the proposed Project. As the party furnishing the construction, the Contractor will be required to furnish these bonds.

Please see attached/associated Bonding letter documentation.

J. Provide your EBE Plan to meet the City's standard HBE Goals and your history of minority contracting.

ALmix is committed to supporting the City of Fort Wayne's Emerging Business Enterprise (EBE) Program and understands the importance of fostering opportunities for qualified local businesses.

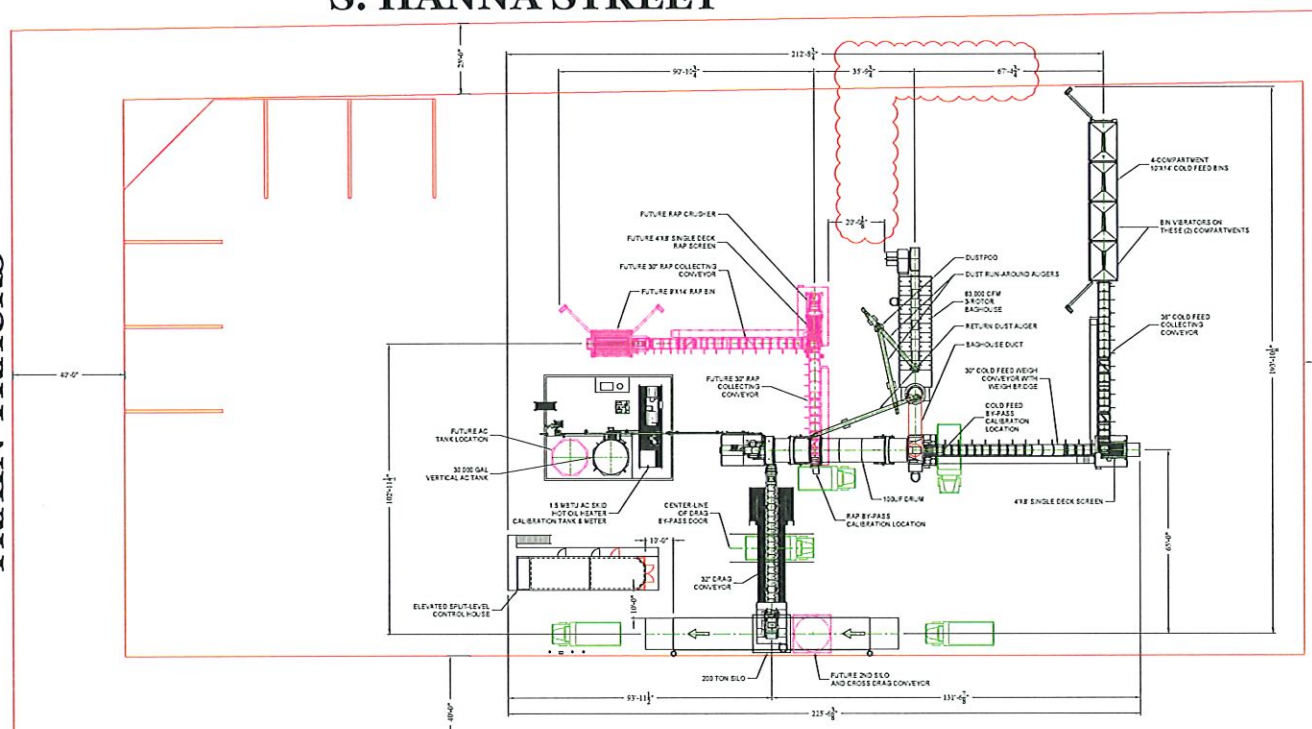
For this project, ALmix intends to satisfy the City's 10% HBE participation goal by utilizing a qualified EBE-certified concrete subcontractor to perform the site civil work and reinforced concrete foundation construction associated with the asphalt plant installation. This scope includes the excavation, grading, foundation construction, anchor bolt installation, concrete placement, and related civil work required to prepare the site for equipment erection.

Based on our current project estimate, the value of this subcontracted work is expected to meet or exceed the City's required participation goal.

ALmix has a long history of partnering with qualified specialty contractors throughout the United States to successfully complete turnkey asphalt plant projects. We believe utilizing experienced local contractors not only strengthens the project team but also supports the local economy while providing the Owner with responsive construction services.

S. HANNA STREET

TRAIN TRACKS



E. WALLACE STREET

S. MONROE STREET

PLOT PLAN - CITY OF FORT WAYNE

QTY NO.	PART NUMBER	DESCRIPTION	MATERIAL/CODE	WEIGHT EACH
ASSY. NO. & QTY.		LIST OF MATERIALS		

NEXT ASSEMBLY:
FIRST USED ON:
DO NOT SCALE DRAWING

DRAWN: 07/20/26 DAL
CHECK:
APPD.:
SCALE:
TOLERANCES UNLESS OTHERWISE NOTED
FRACTIONAL: ±1/16
DECIMAL: ±.005
ANGULAR: ±0.5°

FABRICATED WGHT:
III
SHIPPING WGHT:
III

ALmix Asphalt Equipment
Asphalt Equipment Solutions
1201 Lower Silver Dr. Bonne Terre, MO 63628
Phone: 800-325-8251 Fax: 573-358-3992

CITY OF FORT WAYNE
EQUIPMENT LAYOUT PLAN
PLOT PLAN

DWG. NO.
SHT 1 OF 1
REV 4

DIGEST SHEET

Department: Public Works

Resolution Number:

Title of Ordinance: New Asphalt Plant Installation

Amount of Contract: $6,880,058

Description of Project (Be Specific): Our current asphalt plant was installed in 1998 and has reached its useful life. We are spending increasing amounts every year to repair this plant which is in need of replacement. With almost 840 centerline miles of asphalt streets, the Street Department paves around 10 miles every year and overlays around 4-6 miles of chip and seal streets with asphalt. We would like to ramp up this program in the next few years to improve our pavement ratings on asphalt streets. Therefore, in planning for the future, we are proposing the new plant to have more capacity than the existing one.

What Are The Implications If Not Approved: The current asphalt plant will eventually cost more to maintain and will be down for repairs during the paving season as we have already experienced. Street Department will fall behind on their ability to pave the planned miles of asphalt streets.

If Prior Approval Is Being Requested, Justify: No

Additional Comments:

We solicited RFPs for this project and we received two proposals. These proposals were scored by Public Works staff and ALmix was identified as the best respondent. They were the lower cost of the two proposals and have major operations located in Allen County.