



REQUEST FOR PROPOSALS

for

PARKING LOT UPGRADE

at

Larc Lane Center, 1155 Larc Lane, Toledo, Ohio 43614

Offered by

**LUCAS COUNTY BOARD OF
DEVELOPMENTAL DISABILITIES
1154 LARC LANE
TOLEDO, OHIO 43614
(419) 380-4000**

Bid Opening
July 31, 2026 at 10:00 a.m.

LEGAL NOTICE

Sealed bids will be received by the Lucas County Board of Developmental Disabilities (Board) at 1154 Larc Lane, Toledo, Ohio, **until 10:00 a.m. on July 31, 2026**, at which time bids will be publicly opened. Proposals will be for a parking lot upgrade. Proposals submitted shall be in accordance with specifications on file at the Office of the Superintendent. Documents may be obtained at the Lucas County Board of Developmental Disabilities, 1154 Larc Lane, Toledo, Ohio 43614. Each bid must be accompanied by a Bid Guaranty and Performance Bond as set forth in the specifications equaling 100% of the bid amount, payable to the Lucas County Board of Developmental Disabilities. All bidders are strongly encouraged to attend the **Pre-Bid Meeting on July 13, 2026, at 9:00 a.m.** at the Administrative Offices Building, 1154 Larc Lane, Toledo, Ohio 43614. The Board reserves the right to reject any, part of, or all bids and to waive any informalities in bidding.

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SPECIFICATIONS

- 01 – Technical Specifications
- 02 – Asphalt Pavement Seal Coat
- 014000 – Quality Requirements
- 015000 – Temporary Facilities
- 311000 – Site Clearing
- 321216 – Asphalt Paving

BID DOCUMENTS

1. INSTRUCTIONS TO BIDDERS AND INFORMATION

The purpose of this RFP is for complete Parking Lot Upgrade at Larc Lane Center (the **“Project”**) at the Board facility located at 1155 Larc Lane, Toledo, Ohio 43614 in accordance with the Contract Documents, Specifications, and Plans for this project.

The work for which these bids are invited consists of providing all labor, equipment, and materials for the construction of parking lot upgrade at Larc Lane Center. The Board intends and requires that all work must be completed no later than **November 1, 2026**.

The Board will remain open and operational throughout the construction. Contractor to provide and adjust temporary construction fencing as necessary to protect the site and secure any areas of work.

A. The estimated cost of Total Project as outlined in the specifications and plans is \$399,445.00.

B. Anticipated Procurement Timeline

Date of Issuance:	July 2, 2026
Pre-Bid Meeting/Site Tour:	July 13, 2026 at 9 a.m.
Deadline for Questions:	July 17, 2026, by 4:00 p.m.
Responses to Questions:	July 24, 2026
Bid Deadline:	July 31, 2026 by 10:00 a.m.
Award Date:	August 25, 2026
	Contract submitted to Board for approval
	-All bidders notified

2. BIDDING DOCUMENTS

Copies of the Contract Documents, Specifications and Plans are available for inspection on or after July 2, 2026, and may be obtained from the Board’s website at: <https://bit.ly/LucasDDRFP> . Bid package will not be mailed.

3. PRE-BID MEETING/SITE TOUR

A Pre-Bid Meeting and Site Tour have been scheduled for July 13, 2026, at 9 a.m. at the Administration Building of the Board’s facility located at 1154 Larc Lane, Toledo, Ohio 43614. Capital Projects and Legal Department staff will be available to respond to questions regarding the requirements of this RFP. Questions asked at the pre-bid meeting and **final** responses will be issued in writing in the form of an Addendum which shall be the only means considered binding.

4. RECEIPT OF BIDS

- A. All Bids for the Parking Lot Upgrade at Larc Lane Center (the “**Project**”) will be received until **10:00 a.m. on July 31, 2026**. At this time, bids will be opened for the sole purpose of recording the names of proposers. Bids received after bid opening date and time will not be considered.
- B. Each Bid must be submitted in a sealed envelope, addressed to Legal Department, Lucas DD, 1154 Larc Lane, Toledo, Ohio 43614. Each sealed envelope containing a Bid must be plainly marked on the outside as a **Bid for: Parking Lot Upgrade at Larc Lane Center** and the envelope should bear on the outside the name of the Bidder, the Bidder’s address and the name of the Project for which the Bid is submitted. If forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope addressed as stated above.
- C. All submitted Bids must be made on the Proposal Form contained in the Contract Documents and include all requested information and meet all specification requirements. If significant errors are found in the proposal, or if the proposal fails materially to conform to the requirements of the RFP, the proposal will be rejected.
- D. Bidders’ original proposal must be received, complete, at the above address, via regular mail or hand delivery by the bid opening date and time. Bids will only be accepted during normal business hours of the Board. **Faxed submissions will not be accepted. The Board is not responsible for any bids incorrectly addressed or delivered to any other location than the address provided above.**
- E. The BOARD reserves the right to reject any, part of, or all bids and to waive any informalities in bidding and shall have no liability whatsoever to any bidder whose proposal is not accepted.
- F. A submitted bid may be withdrawn at any time before the scheduled closing time for receipt of bids by written notice. No bid or bid security may be withdrawn or modified after the bids are opened for at least sixty (60) days.

5. REQUIRED BID ATTACHMENTS

- A. The following documents are required to be included with the PROPOSAL FORM and are to be submitted WITH THE BID.
 - 1. Non-Discrimination Agreement (Contract Attachment A)
 - 2. Personal Property Tax Statement (Contract Attachment B)
 - 3. A combined BID GUARANTY AND PERFORMANCE BOND, as set forth herein (Contract Attachment C)
 - 4. Insurance Certificates

6. BID GUARANTY

In accordance with Ohio Revised Code §153.54, each Bid must be accompanied by a Bid Guaranty in the form of either:

1. A combined Bid Guaranty and Performance Bond for the full amount of the bid, using the Bid Guaranty Form included in these documents; or
2. A certified check, cashier's check or letter of credit equal to 10%. If this option is used, the successful bidder shall provide a Performance Bond for the full amount of the contract at the time contract is executed.

All bonds shall be issued by a surety authorized to do business in Ohio and shall be payable to the Lucas County Board of Developmental Disabilities and shall remain in effect for the term of the Contract.

7. TAXES

The BOARD is generally exempt from Federal Excise and Ohio State Sales Taxes. Prices shall not include taxes. If taxes of any kind are applicable, they shall be listed separately on the bid form or in an attachment. Exemptions forms, when required, will be executed by the BOARD.

8. EXAMINATION OF DOCUMENTS AND INTERPRETATIONS

- A. The Bidder shall carefully examine the Contract Documents and inspect the project site. The Bidder, in submitting a Bid, warrants that it has investigated and is acquainted with the conditions to be encountered for performing the work including but not limited to, the character, quality, and quantities of work to be performed and materials to be furnished, the prevailing wage rates for the area in which the project is located and the requirements of the Contract Documents herein defined.
- B. Questions about this RFP must reference the relevant part of this RFP, the heading for the provision under question, and the page number of the RFP where provision can be found. No interpretations of the meaning of the issued for bid drawings, specifications or any part of the Contract Documents will be made to any bidder orally. Written requests for interpretation shall be made prior to the closing time and date (excluding Saturdays, Sundays and holidays) for the Question & Answer period to: Phillip Conley, Capital Projects Manager at pconley@lucasdd.org.

All e-mailed questions must be titled "Parking Lot Upgrade at Larc Lane Center RFP-Request for Clarification" in the subject line.

- C. Any Addenda, if required, will be posted on the Board's website dedicated to this RFP or, for reference, by all bidders. It is the responsibility of all bidders to check this site on a regular basis for responses to questions, as well as for any addendums,

amendments or other pertinent information regarding this RFP. Receipt of Addenda shall be acknowledged on the Proposal Form.

Should bidders experience technical difficulties accessing either the Lucas DD website where the RFP and its related documents are published, they may contact Kim Rambus at krambus@lucasdd.org or by phone at 419-380-4052.

9. AWARD OF CONTRACT

- A. A contract will be awarded for work specified on the basis of the lowest and best bid meeting the specifications.
- B. The Board may consider, in determining the lowest and best bid, whether the bidder has the experience, equipment, staffing, financial capacity, bonding capacity, safety record, insurance coverage, legal authority, and demonstrated ability to complete comparable asphalt paving or parking lot improvement work in accordance with the Contract Documents. The Board may request additional information to determine bidder responsibility, including references, evidence of comparable project experience, and confirmation of compliance with applicable federal, state, and local laws and regulations.
- C. Acceptance of the proposal of any bidder by the Board shall not constitute an agreement between the Board and such bidder, and shall not be binding upon the Board unless and until an agreement covering all conditions and provisions of the work to be performed by the successful bidder has been reduced to writing and executed by both parties.

GENERAL CONDITIONS

1. CONTRACT DOCUMENTS

- A. CONTRACT DOCUMENTS mean all of the various portions of this Contract: LEGAL NOTICE, INSTRUCTIONS TO BIDDERS, ADDENDA, PROPOSAL FORM AND REQUIRED ATTACHMENTS, BONDS, GENERAL CONDITIONS, SPECIFICATIONS, ISSUED FOR BID DRAWINGS, THE AGREEMENT and CHANGE ORDERS.

2. CONTRACT TIME

- A. PROJECT SHALL BE COMPLETED BY NOVEMBER 1, 2026, AFTER ISSUANCE OF NOTICE TO PROCEED ON OR ABOUT AUGUST 25, 2026.
- B. Should the CONTRACTOR find any error or inconsistency in the drawings or specifications, the CONTRACTOR shall notify the Architect of said error or inconsistency. The CONTRACTOR shall not proceed with work affected by any error or inconsistency until authorized by the Board.

3. PERMITS AND INSPECTIONS

- A. The CONTRACTOR shall be responsible to ensure that all permits required for this classification of work are secured from appropriate public authorities having jurisdiction at the site. Work shall not be permitted to start until all permits are secured.
- B. Scheduling of, and payments for, inspections, testing and certifications for all or any portion of the work shall be made and paid by the CONTRACTOR.

4. GUARANTEE

- A. The CONTRACTOR shall guarantee workmanship and materials for a period of one (1) year from the date of acceptance by the Board. Should defects develop within the guarantee period, the CONTRACTOR shall, upon written notice of same, remedy the defects at his cost and shall reimburse the Board for all damage to other work, whether caused by the defects or the work of correcting said defects.

5. INSURANCE AND INDEMNIFICATION

- A. The CONTRACTOR shall carry Workers' Compensation, employer liability, comprehensive general liability and automobile liability in minimum limits of \$1,000,000/\$3,000,000 for personal injury and \$1,000,000 for property damage.
- B. The CONTRACTOR shall indemnify and hold harmless the BOARD, the Architect/Engineer, their employees and agents, against all claims, demands, causes

of action, suits, or liability arising out of CONTRACTOR'S performance or that of his employees, subcontractors, materialmen or agents, and said indemnity shall include defense of any lawsuit.

- C. The obligations of the CONTRACTOR under this paragraph shall not extend to the liability of the Architect/Engineer, his agents, or employees arising out of (1) the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs, or specifications; or (2) the giving or the failure to give directions or instructions by the Architect/Engineer, his agents or employees, provided such giving or failure to give is the primary cause of the injury or damage. This does **not** pertain to job site safety. The CONTRACTOR has full and primary responsibility for job site safety.
- D. Certificates of insurance shall be submitted with proposal.

DESCRIPTION OF WORK

Refer to the issued for bid drawings and specifications for description of work.

PROPOSAL FORM

PROJECT: Parking Lot Upgrade at Larc Lane Center

TO: Lucas County Board of
Developmental Disabilities
Attn: Legal Department
1154 Larc Lane
Toledo, Ohio 43614

In submitting this Bid, BIDDER has carefully examined the Contract Documents, specifications, drawings and site of the proposed work, and is aware of the general nature of work for the performance of the work for which this Bid is submitted.

The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into a Contract to perform all work as specified or indicated in the Contract Documents for the Bid Price and within the Contract times and in accordance with other terms and conditions of the Contract Documents. This Bid will remain subject to acceptance for sixty days after the Bid opening, or for such longer period of time that BIDDER may agree in writing upon request of Owner.

BIDDER will complete the Work in accordance with the Contract Documents for the following prices:

ITEM #1: PARKING LOT UPGRADE AT LARC LANE CENTER

Total bid for all work required to complete the parking lot upgrade (complete project as shown on drawing)

_____ Dollars (\$ _____)
(Total for the sum of in words)

UNIT PRICE NO.1 FULL DEPTH ASPHALT REPAIR. See Drawing C100 for description

_____ PER SQUARE FOOT Dollars (\$ _____ PER SF)
(Total for sum of in words)

LIST OF PROPOSED SUBSTITUTIONS AND ADDENDA

If the Contractor intends to deviate from specified products, list such deviations below as well as price adjustments, if any (use additional sheet(s) if necessary).

SUBSTITUTIONS

[1] _____ + or - \$

[2] _____ + or - \$

[3] _____ + or - \$

ADDENDA

BIDDER hereby acknowledges the receipt of the following Addenda:

No. _____ dated, _____, 2026

No. _____ dated, _____, 2026

No. _____ dated, _____, 2026

COMPLETION

BIDDER agrees, if awarded the contract, to commence work within five [5] days after date of Notice to Proceed; and Contractor agrees to meet the following schedule of milestone dates:

Project complete – November 1, 2026. (Base project and accepted Alternates.)

_____	Name _____
(Authorized Signature)	(Typed or Printed)

Title _____	Date _____
-------------	------------

Company
Name: _____

Company
Address: _____

Phone No.: _____

Email Address: _____

CONTRACT ATTACHMENT A

(Pursuant to Ohio Revised Code Section 153.59)

NON-DISCRIMINATION AGREEMENT

I, _____, having authority to agree on behalf of the Contractor,
_____, does hereby agree:

A. That in the hiring of employees for the performance of work under this Contract or any subcontract, no contractor, subcontractor, or any person acting on contractor's or subcontractor's behalf, by reason of race, creed, sex, disability or military status or color, shall discriminate against any citizen of the State, in the employment of labor or workers, who is qualified and available to perform the work to which the employment relates; and

B. That no contractor, subcontractor, or any person on contractor's or subcontractor's behalf, shall in any manner, discriminate against or intimidate any employee hired for the performance of work under this Contract on account of race, creed, sex, disability or military status or color.

Signature: _____

Title: _____

Date: _____

CONTRACT ATTACHMENT B

Ohio Revised Code, Section 5719.042: "After the award by a taxing district of any contract let by competitive bid and prior to the time the contract is entered into, the person making a bid shall submit to the District's Fiscal Officer a statement affirmed under oath that the person with whom the contract is made was not charged at the time the bid was submitted with any delinquent Personal Property Taxes on the general tax list of Personal Property of any County in which the taxing district has territory or that such person was charged with delinquent Personal Property Taxes on any such tax list, in which case the statement shall also set forth the amount of such due and unpaid delinquent taxes and any due and unpaid penalties and interest thereon. If the statement indicates that the taxpayer was charged with any such taxes, a copy of the statement shall be transmitted by the Fiscal Officer to the County Treasurer within thirty (30) days of the date it is submitted."

DELINQUENT PERSONAL PROPERTY TAX STATEMENT
(O.R.C. SECTION 5719.042)

I, _____, _____,
NAME TITLE

of _____, affirm that, at the time I submitted the
COMPANY NAME
bid for _____,

to the Lucas County Board of Developmental Disabilities on

_____, 2026, that _____,
DATE COMPANY NAME

WAS / WAS NOT charged with delinquent Personal Property Taxes by the Lucas County Auditor
(If Personal Property Taxes are delinquent, complete the following section):

The amount of delinquent Personal Property Taxes due Lucas County are _____
and unpaid penalties and interest are _____.

SIGNATURE

COMPANY NAME

DATE

Sworn to before me and subscribed in my presence by _____

this _____ day of _____, 2026.

NOTARY PUBLIC

CONTRACT ATTACHMENT C

BID GUARANTY AND PERFORMANCE BOND

(O.R.C SECTION 153.571)

KNOW ALL PERSONS, BY THESE PRESENTS, that we, the undersigned,

_____,
(Name and Address)

as Principal and _____,
(Name of Surety)

as Sureties, are hereby held and firmly bound unto the Lucas County Board of Developmental Disabilities, hereinafter called the Obligee, in the penal sum of the dollar amount of the bid submitted by the Principal to the Obligee on _____, 2026, to undertake the project known as:

_____.

The penal sum referred to herein shall be the dollar amount of the Principal's bid to the Obligee, incorporating any additive or deductive alternate bids made by the Principal on the date referred to above to the Obligee, which are accepted by the Obligee. In no case shall the penal sum exceed the amount of _____ (\$ _____) Dollars. (If the foregoing blank is not filled in, the penal sum will be the full amount of the Principal's bid, including alternates. Alternatively, if completed, the amount stated must not be less than the full amount of the bid including alternates, in dollars and cents. A percentage is not acceptable.) For the payment of the penal sum well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

Signed this _____ day of _____, 2026, THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that whereas the above named Principal has submitted a bid on the above referred to project;

NOW, THEREFORE, if the Obligee accepts the bid of the Principal and the Principal fails to enter into a proper contract in accordance with the bid, plans, details, specifications, and bills of material; and in the event the Principal pays to the Obligee the difference not to exceed ten per cent (10%) of the penalty hereof between the amount specified in the bid and such larger amount for which the Obligee may in good faith contract with the next lowest bidder to perform the work covered by the bid, or in the event the Obligee does not award the contract to the next lowest bidder and resubmits the project for bidding, the Principal pays to the Obligee the difference not to exceed ten per cent (10%) of the penalty hereof between the amount specified in the bid, or the costs, in connection

with the resubmission, of printing new contract documents, required advertising and printing and mailing notices to prospective bidders, whichever is less, then this obligation shall be null and void, otherwise to remain in full force and effect; if the Obligee accepts the bid of the Principal and the Principal within ten (10) days after the awarding of the contract enters into a proper contract in accordance with the bid, plans, details, specifications, and bills of material, which said contract is made a part of this bond the same as though set forth herein;

Now also, if the said Contractor shall well and faithfully do and perform the things agreed by the Lucas County Board of Developmental Disabilities to be done and performed according to the terms of said contract; and shall pay all lawful claims of sub-contractors, materials suppliers, and laborers, for labor performed and materials furnished in the carrying forward, performing, or completing of said contract; we agreeing and assenting that this undertaking shall be for the benefit of any materials suppliers or laborer having a just claim, as well as for the Obligee herein; then this obligation shall be void; otherwise the same shall remain in full force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

THE SAID Surety hereby stipulates and agrees that no modifications, omissions, or additions, in or to the terms of said contract or in or to the plans or specifications therefor shall in any wise affect the obligations of said Surety on its bond.

PRINCIPAL:

BY: _____

TITLE: _____

SURETY:

BY: _____

SURETY COMPANY ADDRESS:

Street

City State ZIP Code

SURETY AGENT'S ADDRESS:

Agency Name

Street

City State ZIP Code

TECHNICAL SPECIFICATIONS

1.1 GENERAL

All work shall be performed in accordance with the current edition of the State of Ohio, Department of Transportation, Construction and Material Specifications and supplements thereto, except the measurement and payment sections thereof, in effect 14 calendar days prior to the receiving of bids for this project, and supplemented by the construction standards and specifications contained herein. All work performed within the scope of this project is subject to the approval of the Owner.

1.2 MINOR DETAILS

Minor details not specifically mentioned in these specifications or not shown on the plans, but necessary to secure a workmanlike job and proper operation shall be provided by the Contractor without extra cost.

1.3 REGULATIONS

During the conduct of the performance on and in connection with this project, the Contractor and Subcontractors shall comply with the Occupational Health and Safety Act, and all other applicable Federal and State laws and Local ordinances. Said compliance shall also include, but not be limited to, observance of all applicable safety and health regulations issued by any Federal, State or Local governing body as such regulations are now in existence and as may be hereinafter amended.

1.4 BEGINNING CONSTRUCTION

The Owner shall be notified forty-eight (48) hours prior to beginning the actual construction.

1.5 PRECONSTRUCTION CONFERENCE

- A. OWNER will schedule a conference after Notice of Award.
- B. Attendance Required: OWNER, ENGINEER, Special Consultants, Utilities, CONTRACTOR, CONTRACTOR'S Superintendent, and major Subcontractors.
- C. ENGINEER will record minutes and distribute copies within 2 days after meeting to participants and those affected by decisions made.

1.6 ITEMS NOTED AS SPECIAL OR AS DIRECTED

Items noted as special or as directed in the general summary are to be paid for only when ordered by the Engineer during construction. Quantities shown are for bidding purposes only.

1.7 LIMITS AND CONDITIONS FOR PAYMENT

The limits and conditions for payment of each unit price and lump sum item designated hereafter is defined in such specified item description and per the bid schedule.

1.8 APPLICATIONS FOR PAYMENT

- A. Submit four (4) original copies of each application, signed in blue, on the Application for Payment forms that are located in this book.
- B. Payment Period: Monthly.
- C. Include with each application, as appropriate, an Affidavit of Contractor or an Affidavit for Final Payment certifying under oath:
 - 1. The names and addresses of all Subcontractors furnishing labor, material, or services and of all persons furnishing material included in such estimate.
 - 2. That all bills for materials and labor included in preceding estimates have been paid in full (or if not paid in full, a list of unpaid bills giving amounts paid to each Supplier or Subcontractor, together with the reason for non-payment).
 - 3. That all bills for materials and labor included in such estimate have been or will be paid from the proceeds thereof.
- D. For payment for materials and equipment stored at the Site, furnish supporting documentation.
- E. No payment for materials and equipment stored at an off-site location, will be approved.

1.9 INTERPRETATION OF ESTIMATED QUANTITIES

The estimate of quantities of work to be done and materials to be furnished under this contract as given in the proposal is to serve as a basis for comparison of proposals and the award of the contract. The Owner does not expressly or by implication agree that the actual quantities involved will correspond therewith; nor shall the bidder plead misunderstanding or deception because of such estimate of quantities, or at the character, location or other conditions pertaining to the work.

Payment will be based on the actual quantities of work performed in accordance with the contract at the contract unit prices specified. No allowance will be made for any change in anticipated profits due to an increase or decrease in the original estimate of quantities. The Owner retains the authority to non-perform any portion of this project or to add material and/or labor to the project at the unit prices submitted in the proposal.

1.10 ADDITIONAL WORK

If additional work is required due to unforeseen circumstances or at the direction of the Owner and/or Engineer, the Contractor shall submit, to the Engineer for review, costs for material and labor to perform the work. If the Owner and/or Engineer disagrees with the cost to perform the work, the Owner reserves the right to direct the Contractor to perform the work under force account. The Contractor shall be paid

for such force account work as stated in Section 109.05 (C) of the ODOT Construction and Materials Manual (latest edition).

1.11 CHANGE PROCEDURES

- A. ENGINEER will advise of minor changes in the work not involving an adjustment to contract price or contract time as authorized by paragraph 9.05 of the General Conditions.
- B. OWNER may issue a request for a change which includes a detailed description of the proposed change with supplementary or revised Drawings and Specifications. CONTRACTOR will prepare and submit within 30 days, a statement describing the effect on the contract price and contract time with full documentation.
- C. CONTRACTOR may propose changes by submitting a request for change to ENGINEER, describing the proposed change and its full effect on the Work. Include a statement describing the reason for the change, and the effect on the Contract Price and Contract Time with full documentation.
- D. Work Change Directive: ENGINEER may issue a Work Change Directive signed by OWNER, instructing CONTRACTOR to proceed with a change in the Work, and designate method of determining any change in Contract Price or Contract Time. Promptly execute the change.
- E. Change Order: ENGINEER will issue change orders for signatures of parties as provided in the conditions of the Contract.

1.12 CONSTRUCTION LIMITS

The Contractor must at all times conduct his operations within the public right-of-way, easements, or work agreement as shown in the plans.

1.13 REPAIR OF DISTURBED AREAS

All areas disturbed by construction shall be repaired in accordance with the current Edition of the Ohio Department of Transportation Construction and Material Specification - Item 659 - Seeding and Mulching. No extra payment shall be made for this work and the cost of repair shall be included in the contract unit prices as stated in the proposal.

1.14 PAVEMENT REMOVAL

Pavement removal shall be in accordance with Item 202 of the ODOT Construction and Material Specification Handbook (Current Edition). All edges of existing pavement to be removed shall be saw-cut.

1.15 UNDERGROUND UTILITIES

The location of the underground utilities shown on the plans are as obtained from the owners of the utility and are not guaranteed or represented as being accurate by the Owner or the Engineer or to be in the position indicated on the drawings. Likewise, there is no guarantee or representation that all existing lines and facilities are shown on the drawings. **It is the Contractor's responsibility to obtain detailed information on the location of existing utility lines from the various utility companies prior to starting construction.**

1.16 UTILITIES NOTIFICATION

At least two (2) working days prior to commencing construction operations in an area which may involve underground utility facilities, the Contractor shall notify the Project Engineer, the registered utility protection service (1-800-362-2764), and the owners of each underground utility facility shown in the plans.

The owner of the underground utility facility shall, within forty-eight (48) hours, excluding Saturdays, Sundays, and legal holidays after notice is received, stake, mark or otherwise designate the location of the underground utility facilities in the construction area in such a manner as to indicate their course together with the approximate depth at which they were installed. The marking or locating shall be coordinated to stay approximately two (2) days ahead of the planned construction.

1.17 MAINTAINING TRAFFIC

This item includes the furnishing, erection and maintenance of all temporary signs, lights, barricades, watchmen, etc. for the protection of vehicular and pedestrian traffic. It also includes basic procedures by which vehicular and pedestrian traffic shall be controlled during the construction project.

The placement, sequence of erection, materials, size, shape, color, etc. for traffic control devices; the use of flagmen, etc., shall conform to the latest revisions of the Ohio Manual of Uniform Traffic Control Devices for Streets and Highways, and ODOT Item 614 Detail and Requirements. All such signage and/or use of other traffic control is subject to the approval of the Owner/Engineer.

**Contractor to provide access for owner to maintain operations throughout duration of project.
Contractor to submit phase work schedule for coordination.**

Closure of roadways may occur only upon approval. The Contractor shall be responsible for coordinating all detours with the pertinent local County and State officials. The Contractor shall be responsible for the erection maintenance and removal of all detour signs.

In regards to traffic maintenance during the night, weekends, or holidays, both lanes of the highway must be cleared and be of such condition as to maintain two-way traffic without hazard. This will require cleaning the State highway pavement nightly of construction materials (dirt, stone, etc.) by use of a power broom. The pavement cleaning shall meet the satisfaction of the Engineer and the Ohio Department of Transportation. The Contractor shall not pile, store, or locate construction materials on the State highway pavement unless approved by the Engineer. Excavation must be closed or covered nightly as to preclude a potential traffic hazard (vehicular or pedestrian).

Traffic Control and Detour Plans: Work necessitating major traffic disruptions is scheduled to be performed on light traffic and truck traffic routes resulting in road closures. CONTRACTOR is responsible for preparing a traffic control plan, establishing detour routes during road closures, and implementing required traffic control measures. Review and approval of truck traffic detour plan will be by OWNER for the light traffic detour plan. Work shall not begin until these plans are approved and required traffic control measures are in place.

1.18 PAVEMENT MARKING

Any existing pavement markings destroyed or removed during the execution of any work under these contracts shall be replaced in accordance with ODOT 640.

1.19 REMOVAL OF EXCAVATED MATERIAL AND STORAGE OF MATERIALS

All excess excavated material which has been stockpiled at the work site, and which will not be used for backfill or other fill purposes, must be removed from the project area within forty-eight (48) hours. In all cases, stockpiles of all excavated material and all construction material shall be of limited size and shall be

neatly maintained or removed from the project site so as not to block existing drainage or be hazardous to pedestrian or vehicular traffic in any way, or interfere with the construction operations of other Contractors. The limitation relative to the stockpiling of all excavated material and all construction material shall be controlled by the Owner and the Engineer. In the event the Contractor fails to remove the excess excavated material, as required above, or fails to satisfactorily modify his operations relative to the stockpiling of excavated or construction materials upon order of the Owner or Engineer, all work except clean-up operations will be stopped, and remain stopped, until the directions of the Owner or the Engineer has been complied with.

- A. The removal and disposal of surplus excavated material shall be the responsibility of CONTRACTOR. Provide OWNER with any surplus material OWNER desires. In doing so, CONTRACTOR shall not be required to haul such material for a greater distance than would be required to otherwise dispose of the material.
- B. Disposal of materials shall be performed in an environmentally sound manner, and in accordance with Laws and Regulations.
- C. Do not dispose of excess material in a wetland, floodplain, surface water, or other environmentally sensitive area.
- D. Install and maintain erosion control measures at disposal site(s) until disposal is complete and the site(s) have been stabilized.

1.20 SUBSTANTIAL COMPLETION

- A. For the purpose of this contract, substantial completion for all systems shall be defined as the point where the entire system as shown and/or described in the Construction Documents and Drawings are complete.
- B. Time Restrictions for Performing Work:
 - 1. Weekdays from 7 a.m. to 5 p.m.
 - a. If normal working time for a particular activity is outside the hours of between 7 a.m. and 5 pm. (i.e., during night), secure OWNER=s prior approval.

1.21 VIDEO RECORD OF EXISTING CONDITIONS

The Contractor shall include in his bid the cost of providing a video record of existing conditions in the entire project area to the Owner prior to the beginning of any of the work under this contract.

For the purpose of these specifications, the following applies:

A. Qualifications

- 1. The Contractor must use the services of a professional video recording company actively engaged in color audio-video tape records for various municipalities. The Contractor must submit at least three (3) letters of reference pertinent to the performance and satisfactory completion of color audio-video projects for various municipalities.
- 2. The Engineer may make such investigation as he deems necessary to determine the ability of the video company to perform the work and the Contractor shall furnish to the Engineer such information and data for this purpose as the Engineer may request. The Engineer reserves the right to reject any video company if the evidence submitted by such Contractor or the investigation of such video company

fails to satisfy the Engineer that such video company is properly qualified to carry out the obligations of the contractor and to complete the work contemplated therein.

B. Equipment

1. All equipment, accessories and material to perform this service shall be furnished by the Contractor, except the plans of the proposed area to be televised, which are furnished by the Engineer.
2. When conventional wheeled vehicles are used, the distance from the camera lens to the ground shall not be less than twelve feet (12') to insure proper perspective.
 - a. In some instances, audio-video tape coverage will be required in areas not accessible by conventional wheeled vehicles. Such coverage shall be obtained by walking or special conveyance approved by the project Engineer.

C. Electronic Equipment

1. Format to be MPEG 2 DVD, recorded @ XP speed, containing one video and two audio tracks.
2. Video output from camera(s) used must be capable of producing a minimum of 300 lines of horizontal resolution at center, with minimum light lag. The camera(s) must be able to produce optimum color imagery with a minimum of 7 foot candles of illumination. It shall be capable of providing a video signal-to-noise ratio of at least 49 Db. The camera(s) must be able to produce an acceptable quality color picture of images at varying distances and angles acceptable to the Owner/Engineer.

D. Location Information

1. Audio - Each tape shall begin with the current date, project name and municipality and be followed by the general location, i.e. name of street, viewing side and direction of progress.
2. Video - The engineering stationing numbers must be continuous, be accurate, correspond to the project stationing and include the standard engineering symbols (for example 14 + 84). This transparent information must appear in the lower half of the viewing screen.
3. Video - Below the engineering stationing, periodic transparent alpha numeric information will appear. This information will consist of the name of the project, name of the area covered, direction of travel, viewing side, etc.
4. Digital - To preclude the possibility of tampering or editing in any manner, all video recordings must by electronic means, display continuously and simultaneously generated transparent digital information to include the date and time of recording, as well as the corresponding engineering stationing numbers. The date information will contain the month, day, and year (i.e. 10/5/72) and be placed directly below the time information. The time information shall consist of hours, minutes, and seconds separated by colons (i.e. 10:36:18. This transparent information will appear on the extreme upper left hand third of the screen.

E. Multi-Camera Requirements

1. The audio-video tape shall consist of 1 video and 2 audio tracks, all of which must be recorded simultaneously. All tracks shall consist of original live recordings and thus shall not be copies of other audio or video recordings. Audio track 1 shall contain the narrative commentary of the electrographer, recorded simultaneously with his fixed elevation video record of the zone of influence of construction. Audio track 2 shall contain narrative commentary of the ground level remote technician whose function shall be to provide a complete circumsppection of any features not adequately visible to the electrographer and to describe in detail the extent of any damage encountered. In order to maintain the viewer orientation, transition from fixed camera overview to remote camera picture shall be means of an electronic dissolve.

F. Lighting Requirements

In order to produce detail and perspective, a minimum of twenty-five thousand watts of 3,400 Kelvin temperature lighting will be required to fill in the shadow area caused by trees, utility poles, road signs and other such objects, or other if approved by the Engineer.

G. Tape Coverage

1. Taped coverage shall include all surface features located within the zone of influence of construction supported by appropriate audio description. Both sides of the street or right-of-way shall be recorded in project area. Audio description shall be made simultaneously with video coverage. Such coverage shall include, but not be limited to, all existing driveways, sidewalks, curbs, ditches, roadways, landscaping, trees, culverts, headwalls, and retaining walls or buildings located within such zone of influence.
2. House and buildings shall be identified visually by house number, when visible, in such a manner that structures of the proposed system, i.e., manholes on a sewer system and gatewalls and hydrants on a water system, can be located by reference.
3. The rate of speed in the general direction of travel of the conveyance used during taping shall not exceed 48 feet per minute. Panning rates and zoom-in, zoom-out rates shall be controlled sufficiently such that during playback will produce clarity of the object viewed.
4. All taping shall be done during times of good visibility. No taping shall be done during periods of visible precipitation or when more than 10% of the ground area is covered with snow, unless otherwise authorized by the Engineer.
5. The Engineer shall have the authority to designate what areas may be omitted or added for audio-video coverage.

H. Identification

1. All tapes shall be properly identified by tape number, location and project name and municipality in a manner acceptable to the Engineer.
2. A record of the contents of each tape shall be supplied by a run sheet identifying each segment in the tape by location, i.e. roll number, street or road viewing, tape

counter number, viewing side, point starting from, traveling direction and ending destination point.

3. The Contractor shall provide one (1) set of original complete tapes and cases of the work to the Owner as part of this item.

I. Contractor's Responsibilities

The Contractor shall be able to televise and tape areas with paved roads, along County owned easements through parks, lawns, and open fields. When video taping on private property, the Contractor shall give the Engineer sufficient prior notice of such entry so that property owners may be advised of and their permission obtained for the work.

The Engineer and/or Owner shall have the authority to reject all or any portion of the video tape recording not conforming to specifications.

Any taped coverage not acceptable to the Engineer shall be refilmed at no additional charge. The Contractor shall reschedule unacceptable coverage within five (5) days after being notified.

1.22 PAVEMENT RESURFACING

The work shall consist of resurfacing the existing roads in accordance with these specifications and the ODOT Construction and Material Specifications. The work shall consist of the following items:

- A. Perform pavement planning on the existing pavement.
- B. Provide planned butt joints on end of radii on all adjoining streets and drives. Pavement planning per ODOT 254.
- C. Perform full depth pavement repair in necessary areas. Pavement Repair per ODOT 253.
- D. Prior to the Asphalt Concrete Mat being laid, the surface of the existing pavement shall be thoroughly dry and cleaned of all screenings, soil or loose and foreign material. An application of ODOT Item 407 - Tack coat (0.1 gal./s.y.) shall be applied to the cleaned surface.
- E. Placing a layer of ODOT Item 441 Asphalt Concrete Surface Course (449) Type I, PG64-22. See plans for thickness.
- F. Placing 411 Stabilized Aggregate in all stone drives.
- G. Provide asphalt approach to all drives by feathering into existing drive a maximum of 5'.
- H. Replace all existing pavement markings. (Double yellow centerline, dashed lane lines and symbols).
- I. Placing an AC Band on all edges before and after paving.

The Contractor shall review the project with the Owner and their Engineering Representative prior to work being done to determine those areas requiring any separate filling operation.

Intersections shall be resurfaced with the full depth pavement section around the radii to the beginning of the radius of the adjacent road. The Contractor shall provide a butt joint at the radii of all adjacent streets. The intersections and approaches shall be resurfaced to insure smooth transitions, proper appearance and proper drainage patterns.

Perform full depth pavement repair in location determined by engineer after pavement planing is complete.

The Contractor shall place an asphalt approach on asphalt drives as directed. The approach width to match existing and shall be feathered and have a smooth transition to the existing pavement to a minimum depth of 5'.

Prior to any resurfacing, all litter and debris shall be removed from the road. All weeds shall be sprayed with a weed killer and the weeds shall be completely removed prior to resurfacing.

END OF SECTION

ASPHALT PAVEMENT SEAL COAT

SCOPE The work covered by these specifications consists of furnishing all labor, equipment and materials, and performing all operations necessary to provide a coal-tar emulsion seal coat upon the designated asphalt surface.

DESCRIPTION The coal-tar emulsion seal coat shall consist of a mixture coal tar emulsion, aggregate, water and, if specified, a latex additive properly proportioned, mixed and spread on the surface as specified in this contract and as recommended by the manufacturer of the seal coat.

MATERIALS

COAL-TAR EMULSION The coal tar pitch emulsion pavement sealer shall meet the requirements of Federal Specification R-P-355e and ASTM D-490, Grade 11 or 12. Oil and gas tars shall **not** be used despite meeting the requirements of ASTM D-490.

The contractor shall provide, before beginning work, a certification from their supplier stating that the coal-tar emulsion provided for the work meets the minimum requirements listed above. In addition, a sample of the material shall be provided to the Owner or his representative upon request. If there is any question as to the quality of the material, as determined by the Engineer, the material shall be tested by an independent laboratory and the cost of the testing shall be the responsibility of the contractor.

AGGREGATE Aggregate shall meet the quality requirements of 703.05 CMS and the following gradation:

<u>Sieve Size</u>	<u>Total Percent Passing</u>
No. 8	-100
No. 16	97-100
No. 20	85-100
No. 30	15-85
No. 40	2-15
No. 100	0-2

WATER Water shall be potable and free from harmful insoluble salts and shall be not less than 50E F (10E C) during mixing.

LATEX RUBBER If specified, the latex additive shall be of a copolymer mixture consisting of 51-70 parts butadiene and 30-49 parts acrylonitrile or styrene per FAA Specification Item P-627 and shall have a minimum solids content of 40 percent. The latex additive shall mix homogeneously with and be compatible with the coal-tar emulsion seal coat mixture.

PROPORTIONING OF MATERIALS The mix design shall be per the manufacturer=s recommendations for moderate traffic zones. Two (2) coats of seal coat mixture shall be applied to the entire surface. A third coat may be specified for the drive areas. If a third coat is required, it shall be applied in advance of the coats specified for the entire surface.

SURFACE PREPARATION All areas to be sealed shall clean of all loose and foreign material. Gas and oil spots shall be cleaned with a wire brush to remove any dirt accumulations. Any areas of vegetation shall also be treated and removed prior to the application of the seal coat.

All cracks greater than 1/8" in width shall be sealed in accordance with ODOT Item 423, Crack Sealing, Type 1 or 2. The cost of the labor and material for this procedure shall be included in the cost of the seal coat.

Tack coat, prime coat or a water fog spray may also be applied to the surface prior to the application of the seal coat if recommended by the manufacturer.

No seal coat shall be applied to new pavement for at least 90 days after the placement of the pavement.

APPLICATION The seal coat mixture shall be applied through the use of rubber squeegee, brush, or spray or mechanical equipment specifically designed for this work. Two or three applications may be specified for a particular area. If two applications are specified, the base course shall be applied at the rate of $0.15 \nabla 0.02$ gallons per square yard of mixture and the surface course at $0.10 \nabla 0.02$ gallons per square yard. If a third application is specified for drive areas, a rate of $0.12 \nabla 0.02$ gallons per square yard of mixture shall be applied prior to the placing of the other coats. A minimum of 24 hours shall be allowed between the application of separate courses. Additional time may be required by the Engineer if deemed necessary.

WEATHER LIMITATIONS The seal coat shall be placed only when the temperature of the pavement surface is greater than, or equal to 10 degrees C (50 degrees F). The mixture shall not be placed if impending weather conditions are such that proper spreading and ample curing may not be obtained.

CURING TIME No traffic shall be allowed on the freshly laid seal mixture for a minimum of 24 hours or until it has satisfactorily cured, as determined by the Engineer, and will not be damaged by vehicular traffic.

A minimum of 24 hours shall also be allowed prior to the application of any striping material being applied.

PAYMENT AND ACCEPTANCE The seal coat shall be measured and paid for as specified in the Contract Documents and shall be full compensation for furnishing, mixing, hauling, and placing of the materials described herein and for all labor and use of equipment, tools, and incidentals necessary to complete the work as described in these specifications.

GUARANTEE All work shall be guaranteed for two (2) years from the date of application in accordance with the Contract Documents.

SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspection services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and quality-control procedures that facilitate compliance with the Contract Document requirements.
 - 2. Requirements for Contractor to provide quality-assurance and quality-control services required by Architect/Engineer, Owner, or authorities having jurisdiction are not limited by provisions of this Section.

1.2 DEFINITIONS

- A. Experienced: When used with an entity or individual, "experienced" unless otherwise further described means having successfully completed a minimum of **five** previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.
- B. Field Quality-Control Tests and Inspections: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- C. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, assembly, and similar operations.
 - 1. Use of trade-specific terminology in referring to a Work result does not require that certain construction activities specified apply exclusively to specific trade(s).
- D. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria. Unless otherwise indicated, copies of reports of tests or inspections performed for other than the Project do not meet this definition.
- E. Product Tests: Tests and inspections that are performed by a nationally recognized testing laboratory (NRTL) in accordance with 29 CFR 1910.7, by a testing agency accredited in accordance with NIST's National Voluntary Laboratory Accreditation Program (NVLAP), or by a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.

- F. Source Quality-Control Tests and Inspections: Tests and inspections that are performed at the source; for example, plant, mill, factory, or shop.
- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. The term "testing laboratory" has the same meaning as the term "testing agency."
- H. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- I. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Contractor's quality-control services do not include contract administration activities performed by Architect/Engineer.

1.3 DELEGATED DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect/Engineer.
- B. Delegated Design Services Statement: Submit a statement, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional, indicating that the products and systems are in compliance with performance and design criteria indicated. Include list of codes, loads, and other factors used in performing these services.

1.4 CONFLICTING REQUIREMENTS

- A. Conflicting Standards and Other Requirements: If compliance with two or more standards or requirements is specified and the standards or requirements establish different or conflicting requirements for minimum quantities or quality levels, inform the Architect/Engineer regarding the conflict and obtain clarification prior to proceeding with the Work. Refer conflicting requirements that are different, but apparently equal, to Architect/Engineer for clarification before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified is the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect/Engineer for a decision before proceeding.

1.5 ACTION SUBMITTALS

- A. -DELETED-

1.6 INFORMATIONAL SUBMITTALS

- A. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.
- B. Permits, Licenses, and Certificates: For Owner's record, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents established for compliance with standards and regulations bearing on performance of the Work.

1.7 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, telephone number, and email address of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.
 - 7. Identification of product and Specification Section.
 - 8. Complete test or inspection data.
 - 9. Test and inspection results and an interpretation of test results.
 - 10. Record of temperature and weather conditions at time of sample taking and testing and inspection.
 - 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 - 12. Name and signature of laboratory inspector.
 - 13. Recommendations on retesting and reinspecting.

1.8 QUALITY ASSURANCE

- A. Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units. As applicable, procure products from manufacturers able to meet qualification requirements, warranty requirements, and technical or factory-authorized service representative requirements.

- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Installer Qualifications: A firm or individual experienced in installing, erecting, applying, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Testing and Inspecting Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspection indicated, as documented in accordance with **ASTM E329** and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.

1.9 QUALITY CONTROL

- A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
 - 1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspection they are engaged to perform.
 - 2. Costs for retesting and reinspecting construction that replaces or is necessitated by Work that failed to comply with the Contract Documents will be charged to Contractor, **and the Contract Sum will be adjusted by Change Order if deemed reasonable by Owner.**
- B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities, whether specified or not, to verify and document that the Work complies with requirements.
 - 1. Engage a qualified testing agency to perform quality-control services.
 - a. Contractor will not employ same entity engaged by Owner, unless agreed to in writing by Owner.
 - 2. Notify testing agencies at least **24** hours in advance of time when Work that requires testing or inspection will be performed.
 - 3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 - 4. Testing and inspection requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
 - 5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- C. Testing Agency Responsibilities: Cooperate with Architect/Engineer and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
 - 1. Notify Architect/Engineer and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.

2. Determine the locations from which test samples will be taken and in which in-situ tests are conducted.
 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected Work complies with or deviates from requirements.
 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 6. Do not perform duties of Contractor.
- D. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Section 013300 "Submittal Procedures."
- E. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.
- F. Contractor's Associated Requirements and Services: Cooperate with agencies and representatives performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 3. Adequate quantities of representative samples of materials that require testing and inspection. Assist agency in obtaining samples.
 4. Facilities for storage and field curing of test samples.
 5. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 6. Security and protection for samples and for testing and inspection equipment at Project site.
- G. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and quality-control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspection.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.

1.10 SPECIAL TESTS AND INSPECTIONS

- A. -DELETED-

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
 - 1. Date test or inspection was conducted.
 - 2. Description of the Work tested or inspected.
 - 3. Date test or inspection results were transmitted to Architect/Engineer.
 - 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect/Engineer's **and authorities' having jurisdiction** reference during normal working hours.
 - 1. Submit log at Project closeout as part of Project Record Documents.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspection, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 017300 "Execution."
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014000

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

1.2 USE CHARGES

- A. Installation, removal, and use charges for temporary facilities to be included in the Contract Sum unless otherwise indicated. Allow other entities engaged in the Project to use temporary services and facilities without cost, including, but not limited to the Owner, Architect/Engineer, testing agencies, and authorities having jurisdiction.

1.3 INFORMATIONAL SUBMITTALS

- A. Site Utilization Plan: Show temporary facilities, temporary utility lines and connections, staging areas, construction site entrances, vehicle circulation, and parking areas for construction personnel.
- B. Project Identification and Temporary Signs: Show fabrication and installation details, including plans, elevations, details, layouts, typestyles, graphic elements, and message content.

1.4 QUALITY ASSURANCE

- A. Accessible Temporary Egress: Comply with applicable provisions in **the DOJ's 2010 ADA Standards for Accessible Design and ICC A117.1**.

1.5 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 TEMPORARY FACILITIES

- A. -DELETED-

2.2 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

PART 3 - EXECUTION

3.1 TEMPORARY FACILITIES, GENERAL

- A. Conservation: Coordinate construction and use of temporary facilities with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.

3.2 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.
- C. Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas.

3.3 TEMPORARY UTILITY INSTALLATION

- A. Sanitary Facilities: Provide temporary toilets, wash facilities, safety shower and eyewash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

3.4 SUPPORT FACILITIES INSTALLATION

- A. -DELETED-
- B. Temporary Roads and Paved Areas: Construct and maintain temporary roads and paved areas adequate for construction operations. Locate temporary roads and paved areas **within construction limits indicated** on Drawings.
 - 1. Provide dust-control treatment that is nonpolluting and nontracking. Reapply treatment as required to minimize dust.
- C. Traffic Controls: Comply with requirements of authorities having jurisdiction.
 - 1. Protect existing site improvements to remain including curbs, pavement, and utilities.
 - 2. Maintain access for fire-fighting equipment and access to fire hydrants.

- D. Parking: Use **designated areas of Owner's existing** parking areas for construction personnel.
- E. Storage and Staging: Use **designated areas of Project site** for storage and staging needs.
- F. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
 - 1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
 - 2. Remove snow and ice as required to minimize accumulations.
- G. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
 - 1. Identification Signs: Provide Project identification signs as indicated on Drawings.
 - 2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
 - a. Provide temporary, directional signs for construction personnel and visitors.
 - 3. Maintain and touch up signs so they are legible at all times.
- H. Waste Disposal Facilities: Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."
- I. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress cleaning requirements in Section 017300 "Execution."

3.5 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
 - 1. Where access to adjacent properties is required in order to affect protection of existing facilities, obtain written permission from adjacent property owner to access property for that purpose.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- C. Temporary Erosion and Sedimentation Control: Comply with **requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent and** requirements specified in Section 311000 "Site Clearing."
- D. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, in accordance with **requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.**

1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree- or plant-protection zones.
 2. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
 3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from Project site during the course of Project.
 4. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
- E. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- F. Tree and Plant Protection: Comply with requirements specified in Section 015639 "Temporary Tree and Plant Protection."

3.6 MOISTURE AND MOLD CONTROL

- A. -DELETED-

3.7 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
 2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 017700 "Closeout Procedures."

END OF SECTION 015000

SECTION 311000 - SITE CLEARING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Protecting existing vegetation to remain.
2. Removing existing vegetation.
3. Clearing and grubbing.
4. Stripping and stockpiling topsoil.
5. Removing above- and below-grade site improvements.
6. Disconnecting, capping, or sealing site utilities.
7. Temporary erosion and sedimentation control.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at **Project site**.

1.3 MATERIAL OWNERSHIP

- A. Except for materials indicated to be stockpiled or otherwise remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.4 FIELD CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
 2. Provide alternate routes around closed or obstructed trafficways if required by Owner or authorities having jurisdiction.
- B. Salvageable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises **where indicated**.
- C. Utility Locator Service: Notify utility locator service for area where Project is located before site clearing.
- D. Do not commence site clearing operations until temporary erosion- and sedimentation-control **and plant-protection** measures are in place.
- E. Tree- and Plant-Protection Zones: Protect according to requirements in Section 015639 "Temporary Tree and Plant Protection."

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Section 312000 "Earth Moving."
 - 1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Verify that trees, shrubs, and other vegetation to remain or to be relocated have been flagged and that protection zones have been identified and enclosed according to requirements in Section 015639 "Temporary Tree and Plant Protection."
- C. Protect existing site improvements to remain from damage during construction.
 - 1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction.
- B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
- D. Remove erosion and sedimentation controls, and restore and stabilize areas disturbed during removal.

3.3 TREE AND PLANT PROTECTION

- A. Protect trees and plants remaining on-site according to requirements in Section 015639 "Temporary Tree and Plant Protection."

- B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations according to requirements in Section 015639 "Temporary Tree and Plant Protection."

3.4 EXISTING UTILITIES

- A. Locate, identify, disconnect, and seal or cap utilities indicated to be removed or abandoned in place.
 - 1. Arrange with utility companies to shut off indicated utilities.
- B. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others, unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify Owner not less than two days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without Owner's written permission.

3.5 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
 - 1. Grind down stumps and remove roots larger than **3 inches (75 mm)** in diameter, obstructions, and debris to a depth of **18 inches (450 mm)** below exposed subgrade.
 - 2. Use only hand methods or air spade for grubbing within protection zones.
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
 - 1. Place fill material in horizontal layers not exceeding a loose depth of **8 inches (200 mm)**, and compact each layer to a density equal to adjacent original ground.

3.6 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.
- B. Strip topsoil to depth of **6 inches (150 mm)** in a manner to prevent intermingling with underlying subsoil or other waste materials.
- C. Stockpile topsoil away from edge of excavations without intermixing with subsoil or other materials. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.

3.7 SITE IMPROVEMENTS

- A. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.

3.8 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.

END OF SECTION 311000

SECTION 321216 - ASPHALT PAVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Hot-mix asphalt paving.
2. Hot-mix asphalt overlay.
3. Cold milling of existing asphalt pavement.
4. Hot-mix asphalt patching.
5. Asphalt curbs.

B. Related Requirements:

1. Section 312000 "Earth Moving" for subgrade preparation, fill material, separation geotextiles, unbound-aggregate subbase and base courses, and aggregate pavement shoulders.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at **Project site**.

1.3 ACTION SUBMITTALS

- A. Hot-mix asphalt designs.

1.4 INFORMATIONAL SUBMITTALS

- A. Material Certificates: **Include statement that mixes containing recycled materials in compliance with ODOT guidelines.**

1. Aggregates.
2. Asphalt binder.
3. Tack coat.

1.5 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of **ODOT** for asphalt paving work.

1. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section.

PART 2 - PRODUCTS

2.1 AGGREGATES

- A. Coarse Aggregate: ASTM D692/D692M, sound; angular crushed stone, crushed gravel, or cured, crushed blast-furnace slag.
- B. Fine Aggregate: **ASTM D1073**, sharp-edged natural sand or sand prepared from stone, gravel, cured blast-furnace slag, or combinations thereof.

2.2 ASPHALT MATERIALS

- A. Asphalt Binder: **ASTM D6373** binder designation [**PG 64-22**].
- B. Asphalt Cement: **ASTM D3381/D3381M for viscosity-graded material**
- C. Tack Coat: **ASTM D977**] emulsified asphalt, or **ASTM D2397/D2397M** cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

2.3 AUXILIARY MATERIALS

- A. Recycled Materials for Hot-Mix Asphalt Mixes: Reclaimed asphalt pavement; reclaimed, unbound-aggregate base material; and recycled **tires or asphalt shingles** from sources and gradations that have performed satisfactorily in previous installations, equal to performance of required hot-mix asphalt paving produced from all new materials.
- B. Herbicide: Commercial chemical for weed control, registered by the EPA, and not classified as "restricted use" for locations and conditions of application. Provide in granular, liquid, or wettable powder form.

2.4 MIXES

- A. Hot-Mix Asphalt: Dense-graded, hot-laid, hot-mix asphalt plant mixes **approved by authorities having jurisdiction** and complying with the following requirements:
 - 1. Provide mixes with a history of satisfactory performance in geographical area where Project is located.
 - 2. Intermediate Course.
 - 3. Surface Course.

PART 3 - EXECUTION

3.1 COLD MILLING

- A. Clean existing pavement surface of loose and deleterious material immediately before cold milling. Remove existing asphalt pavement by cold milling to grades and cross sections indicated.
 - 1. Mill to a depth of **1-1/2 inches (38 mm)**.
 - 2. Patch surface depressions deeper than **1 inch (25 mm)** after milling, before wearing course is laid.

3.2 PATCHING

- A. Asphalt Pavement: Saw cut perimeter of patch and excavate existing pavement section to sound base. Excavate rectangular or trapezoidal patches, extending **12 inches (300 mm)** into perimeter of adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Remove excavated material. Recompact existing unbound-aggregate base course to form new subgrade.
- B. Tack Coat: Before placing patch material, apply tack coat uniformly to vertical asphalt surfaces abutting the patch. Apply at a rate of **0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m)**.
 - 1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
 - 2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.
- C. Placing Patch Material: Fill excavated pavement areas with hot-mix asphalt base mix for full thickness of patch and, while still hot, compact flush with adjacent surface.

3.3 SURFACE PREPARATION

- A. Ensure that prepared subgrade is ready to receive paving. Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces.
- B. Herbicide Treatment: Apply herbicide in accordance with manufacturer's recommended rates and written application instructions. Apply to dry, prepared subgrade or surface of compacted-aggregate base before applying paving materials.
 - 1. Mix herbicide with prime coat if formulated by manufacturer for that purpose.
- C. Tack Coat: Apply uniformly to surfaces of existing pavement at a rate of **0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m)**.
 - 1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
 - 2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

3.4 HOT-MIX ASPHALT PLACEMENT

- A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand in areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.
 - 1. Place hot-mix asphalt base course in number of lifts and thicknesses indicated.
 - 2. Place hot-mix asphalt surface course in single lift.
 - 3. Spread mix at a minimum temperature of **250 deg F (121 deg C)**.
 - 4. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.
- B. Place paving in consecutive strips not less than **10 feet (3 m)** wide unless infill edge strips of a lesser width are required.
- C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

3.5 JOINTS

- A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.
 - 1. Clean contact surfaces and apply tack coat to joints.
 - 2. Offset longitudinal joints, in successive courses, a minimum of **6 inches (150 mm)**.
 - 3. Offset transverse joints, in successive courses, a minimum of **24 inches (600 mm)**.
 - 4. Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method in accordance with AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations."

3.6 COMPACTION

- A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot hand tampers or with vibratory-plate compactors in areas inaccessible to rollers.
 - 1. Complete compaction before mix temperature cools to **185 deg F (85 deg C)**.
- B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.
- C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:

1. Average Density, Rice Test Method: 92 percent of reference maximum theoretical density in accordance with ASTM D2041/D2041M, but not less than 90 percent or greater than 96 percent.
- D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.
- E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.
- F. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
- G. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

3.7 ASPHALT CURBS

- A. -DELETED-

3.8 INSTALLATION TOLERANCES

- A. Pavement Thickness: Compact each course to produce thickness indicated within the following tolerances:
 1. Intermediate Course: Plus or minus **1/2 inch (13 mm)**.
 2. Surface Course: Plus **1/4 inch (6 mm)**, no minus.
- B. Pavement Surface Smoothness: Compact each course to produce surface smoothness within the following tolerances as determined by using a **10-foot (3-m)** straightedge applied transversely or longitudinally to paved areas:
 1. Intermediate Course: [**1/4 inch (6 mm)**].
 2. Surface Course: [**1/8 inch (3 mm)**].

3.9 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Replace and compact hot-mix asphalt where core tests were taken.
- C. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

3.10 WASTE HANDLING

- A. General: Handle asphalt-paving waste in accordance with approved waste management plan.

END OF SECTION 321216

