



Platte County R-3 School District

Barry School
Pavement Improvements

Request for Proposal (RFP)

May 4, 2022

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NOTICE TO BIDDERS

The Platte County R-3 School District wishes to obtain bids for qualified contractors to perform asphalt and concrete repair and improvements at Barry School, located at 2001 Northwest 87th Terrace, Kansas City, Missouri 64154.

The Platte County R-3 School District will receive **sealed unit pricing proposals** from Bidders **until Tuesday, May 17, 2022, at 3 p.m.**, at the location given below, at which time, the bids received will be opened and read aloud. The Platte County R-3 School District reserves the right to reject any or all bids and to waive informalities or irregularities in bids if deemed to be in the best interest of the District.

Each sealed bid shall contain completed Bid Proposal (pages 7-8), E-Verify (pages 9-10) and Bidders Qualification (pages 11-12); forms for each are included in this RFP.

Bidders are invited to attend an **optional** pre-bid conference on **Tuesday, May 10th at 3:30 p.m. at the Barry School**, 2001 Northwest 87th Terrace, Kansas City, Missouri.

Bids shall be in sealed envelopes labeled:

**Platte County R-3 School District
Barry School Asphalt and Concrete Pavement Improvements
Dr. Jay Harris, Executive Director of Operations
Platte County R-3 School District
District Education Center
998 Platte Falls Road Platte City, MO 64079**

Bids received after the time and date above specified shall be returned, unopened, to the Bidder.

Any questions related to this RFP or bid requirements please contact:

Mr. Jeff Smith
816.858.5420
smithj@platteco.k12.mo.us

All questions regarding the RFP or bid documents must be submitted by **Monday, May 16th at 2:00p.m.** No other questions will be answered after this date and time.

Regulatory Requirements: All Contractors and Subcontractors shall conform to the State of Missouri, Division of Labor Standards, Annual Wage Order No. 28, Section 083 Platte County, in accordance with Section 290.262 CUM. Supp. RSMo (1994). All Contractors and Subcontractors shall conform to the Missouri Prevailing Wage Law Sections 290.550 to 290.580 Public Works during Excessive Unemployment.

Prevailing Wage Required Only if Total Bid is Over \$75,000.

Anti-Discrimination Against Israel Act. This Company is not currently and shall not, for the duration of this contract, engage in a boycott of goods or services from the State of Israel; companies doing business in or with Israel; or authorized by, licensed by, or organized under the laws of the State of Israel; or persons or entities doing business in the State of Israel.

GENEARL INFORMATION

Platte County R-3 School District is seeking unit pricing bids for asphalt and concrete repair and improvements at Barry School.

Site tours will take place at the pre-bid meeting, or anytime with advanced notice. Please make an appointment with Mr. Jeff Smith at 816.858.5420 (office) or 816.616.7510 (mobile).

Bidders shall submit sealed, unit pricing proposals:

- The selected bidder will walk the site with district staff to finalize the areas and scope of work, then provide a hard bid using the unit costs.
- Bidders may bid for any or all unit costs.
- All concrete shall be #4K MCMMB.
- Concrete sidewalk to be considered 4-inches.
- Concrete pavement to be considered 6-inches.
- The unit cost shall be valid no matter the scope of work per site.
- Full depth repair is considered to be 8-inches of pavement.
- Subgrade removal and replacement are to be considered of 8-inches of soil; base rock replacement to be 8-inches of MODOT Type 5.
- Seal coat to be a 1-squeegee coat and 1-spray coat.
- Crack seal sealant material shall be a hot pour elastomeric type conforming to the requirements of ASTM D 6690 Type II. The cut-sheets must be sent in with bid. All cracks wider than 1/4" are to be sealed. All over banding shall be kept to a minimum. After the sealant has cooled, settling shall not exceed 3/8" below the surface.
- Seal coat work may have to be split up to allow access to the building at all times.
- All curb and gutter unit costs shall include removal and replacement.
- All concrete replacement shall be dowelled, and the rebar shall be installed at 2-feet on center, both ways.
- All concrete removal to be hauled off-site and disposed of.
- Bidder shall supply price deduct for square foot for new concrete installation that does not need removal and disposal.
- All soil removed to be hauled off-site and disposed of.
- Concrete clean-out bags must be included and must be hauled away. **NO CONCRETE CLEANOUTS ON SITE.**
- Black dirt backfill, seeding, and seed blanket shall be installed by bidder.
- Curbs to have 3 - #4 bars.
- Rebar shall not be epoxy coated.
- Prices are to be good from the date of bid opening until July 31, 2022.
- All work may begin Tuesday, May 31, 2022, and must be completed by Friday, July 29, 2022.
- Bidders are required to provide certified payroll with the invoice, and invoices must match bids.
- Certified Payroll must be submitted with every pay application and will be checked before payment will be issued.

INSTRUCTION TO BIDDERS

PROPOSALS: All proposals must be made on the forms provided herein. All proposals must be legibly written. No alterations in proposals or in the printed forms will be acceptable unless each alteration is signed by the Bidder. No alterations or physical changes shall be made by anyone, in any bid, after its submission by the Bidder.

SIGNATURE OF BIDDERS: Each Bidder shall sign the proposal, using the customary name under which the Bidder does business, utilizing the customary signatures of an authorized representative, and providing a full business address, including identity of any registered or local agent.

WITHDRAWAL OF BID: A Bidder may withdraw its proposal at any time prior to the expiration of the time and date during which proposals may be submitted, by written request submitted by the Bidder to the Platte County R-3 School District. A Bidder may correct any mistakes in its bid by submitting a written request to the Platte County R-3 School District, provided the written request is made and the bid is corrected and resubmitted prior to the expiration of the time and date during which proposals may be submitted.

BID PROPOSAL INSTRUCTIONS: A Bidder shall submit a completed Bid Proposal Form (pages 7-8).

INSURANCE: Contractor shall provide certificates of insurance and renewals thereof on standard ACORD forms. This inclusion shall not make the Platte County R-3 School District a partner or joint venture with the Contractor in its operations hereunder. The School District shall be notified by receipt of written notice from the insurer at least thirty (30) days prior to material modification or cancellation of any policy listed in the certificate.

Contractor will provide the School District with proof of liability insurance in the minimum amount of \$2,000,000.00 listing Platte County R-3 Schools as additionally insured.

Contractors will also provide proof of Worker's Compensation insurance in the minimum amount of \$500,000.00 listing Platte County R-3 Schools as additionally insured.

EXCEPTIONS: The bidder shall furnish a statement on company letterhead giving a complete description of any exception to the terms, conditions, and specifications. Failure to furnish the statement will mean that the bidder agrees to meet all requirements of the Request for Proposal.

RESPONSIBILITY OF CONTRACTOR: The Contractor shall furnish all labor, transportation, tools, equipment, machinery, and all suitable appliances, requisite for execution of this agreement and shall be solely answerable for the same and for the safe, proper, and lawful construction, maintenance, and use thereof. Contractor shall be solely answerable for all damage to any Platte County R-3 School District property, to other contractors or other employees of the School District, to the neighboring premises, or to any private or personal property, due to improper, illegal, or negligent conduct of itself or its subcontractors, employees, or agents in and about said work, or in the execution of the work covered by this agreement, or any extra work undertaken as herein provided.

Contractor shall not assign this agreement. The agreement will be terminated in the event the contractor sells the business. The School District reserves the right to continue with the new owner or select another contractor.

PERFORMANCE AND PAYMENT BOND: The Contractor shall furnish to the Owner a Performance and Payment Bond in the amount of 100 percent of the Contract Sum if the cost of the work is estimated to exceed \$50,000. No bond required if cost of work is below \$50,000. No bid bond required. Form of the Bond shall be AIA Document A312 from the American Institute of Architects, as modified by Owner.

RELATIONS WITH OTHER CONTRACTORS: The Contractor shall cooperate with all other contractors who may be performing work on behalf of the School District, and workers who may be employed by the School District, on any work in the vicinity of the work to be done under this agreement, and the Contractor shall so conduct its operations as to interfere to the least possible extent with the work of such contractors or workers.

PROTECTION OF PUBLIC AND PRIVATE PROPERTY: The Contractor shall assume full responsibility for the protection of all public and private property, structures, sewers, and utilities, both above and below ground, along, beneath, above, across or near the site or sites of the work being performed under this agreement, or which are in any manner affected by the prosecution of the work or the transportation of men or materials in connection therewith.

COMPLIANCE WITH O.S.H.A. REGULATIONS: The Contractor shall comply with all regulations of the Occupational Safety and Health Administration (OSHA) and hold the School District and its representatives harmless from all actions resulting from the Contractor's failure to comply with said regulations, orders and citations.

VERBAL STATEMENTS NOT BINDING: It is understood and agreed that the written terms and provisions of this agreement shall supersede all prior verbal statements of any and every official and/or other representative of the School District, and such statements shall not be effective or be construed as entering into, or forming a part of, or altering in any way whatsoever, the written agreement.

PAYMENTS: Payment shall be made to the Contractor upon completion of the work.

FINAL COMPLETION: The Platte County R-3 School District wishes to have these improvements completed no later than July 29, 2022.

TERMINATION: Platte County R-3 School District reserves the right to terminate the agreement without notice for just cause which may include but not limited to some of the following: unauthorized staff of the contractor (sex offenders, convicted felons, etc.); weapons on school property; inappropriate behavior with students or staff; use of alcohol, tobacco or drugs on school property; use of unauthorized sub-contractors or 1099 employees; use of illegal alien employees; lapse of insurance coverage; failure to complete work as specified; poor quality of work; damage to school district property.

WARRANTY: Contractor and each Subcontractor or Supplier shall guarantee all work, portions of work, and items supplied, as the case may be, against defects resulting from the use of any inferior materials, equipment or workmanship for one (1) year from the date of final completion of the project by the Owner. It shall be the Contractor's responsibility to ensure compliance to the warranty by each Subcontractor or Supplier. Manufacturer shall provide an eight-year warranty on the product.

In any case where, in fulfilling the requirements of this Contract or Warranty, the Contractor, Subcontractor, or Supplier disturbs any other work in place or under contract, he shall be responsible to perform, arrange, and pay for restoring such to original condition.

EXHIBIT 'A'

PROPOSAL FORM

Bid to:

Platte County R-3 School District
District Education Center
Attn: Dr. Jay Harris
998 Platte Falls Road
Platte City, MO 64079

Place of Bid Opening:

Platte County R-3 School District
District Board of Education Room
998 Platte Falls Road
Platte City, MO 64079

Bid for:

Barry School Pavement Improvements

Date and Time for Receipt of Bids:

Tuesday, May 17, 3:00 p.m. (Local Time)
Platte City, MO 64079

We, the undersigned Bidder, hereby submit our Unit Price Proposal on Asphalt and Concrete Repairs and Improvements for the Platte County R-3 School District – Barry School.

Name of Bidder: _____

Address of Bidder: _____

Telephone Number: _____ Fax Number: _____

Crack Seal Cut Sheets included with Unit Price Bid: Yes / No

Price Deduct of new concrete install \$ _____ per square foot

Concrete Sidewalk (per SF)	Concrete Pavement (per SY)	Standard Curb (per LF)	Ribbon Curb (per LF)
\$	\$	\$	\$
Full Depth Repair (per SY)	2" Edge Mill & Overlay (per SY)	2" Mill & 2" Overlay (per SY)	2" Overlay (per SY)
\$	\$	\$	\$
Subgrade Remove & Replace (per SY)	Crack Seal (per LF)	Seal Coat (per SY)	Parking Lot Striping w/ Material (per LF)
\$	\$	\$	\$

EXHIBIT 'B'
FEDERAL WORK AUTHORIZATION PROGRAM AFFIDAVIT

I _____, being of legal age and having been duly sworn upon my oath, state the following facts are true:

1. I am more than twenty-one years of age; and have first-hand knowledge of the matters set forth herein.
2. I am employed by _____(hereinafter "Company") and have authority to issue this affidavit on its behalf.
3. Company is enrolled in and participating in the United States E-Verify (formerly known as "Basic Pilot") federal work authorization program with respect to Company's employees working in connection with the services the Company is providing to, or will provide to, the District, to the extent allowed by E-Verify.
4. Company does not knowingly employ any person who is an unauthorized alien in connection with the services the Company is providing to, or will provide to, the District.

FURTHER AFFIANT SAYETH NOT.

By: _____(signature)

For: _____(company name)

Title: _____

Subscribed and sworn to before me on this _____ day of _____, 20____

NOTARY PUBLIC

My commission expires:

FEDERAL WORK AUTHORIZATION PROGRAM ("E-VERIFY") ADDENDUM

Pursuant to Missouri Revised Statute 285.530, all business entities awarded any contract in excess of five thousand dollars (\$5,000) with a Missouri public school district must, as a condition to the award of any such contract, be enrolled and participate in a federal work authorization program with respect to the employees working in connection with the contracted services being provided, or to be provided, to the District (to the extent allowed by E-Verify). In addition, the business entity must affirm the same through sworn affidavit and provision of documentation. In addition, the business entity must sign an affidavit that it does not knowingly employ any person who is an unauthorized alien in connection with the services being provided, or to be provided, to the District.

Accordingly, your company:

- A. agrees to have an authorized person execute the attached "Federal Work Authorization Program Affidavit" attached hereto as Exhibit B and deliver the same to the District prior to or contemporaneously with the execution of its contract with the District;
- B. affirms it is enrolled in the "E-Verify" (formerly known as "Basic Pilot") work authorization program of the United States, and are participating in E-Verify with respect to your employees working in connection with the services being provided (to the extent allowed by E-Verify), or to be provided, by your company to the District;
- C. affirms that it is not knowingly employing any person who is an unauthorized alien in connection with the services being provided, or to be provided, by your company to the District;
- D. affirms you will notify the District if you cease participation in E-Verify, or if there is any action, claim or complaint made against you alleging any violation of Missouri Revised Statute 285.530, or any regulations issued thereto;
- E. agrees to provide documentation of your participation in E-Verify to the District prior to or contemporaneously with the execution of its contract with the District (or at any time thereafter upon request by the District), by providing to the District an E-Verify screen print-out (or equivalent documentation) confirming your participation in E-Verify;
- F. agrees to comply with any state or federal regulations or rules that may be issued subsequent to this addendum that relate to Missouri Revised Statute 285.530; and
- G. agrees that any failure by your company to abide by the requirements A) through F) above will be considered a material breach of your contract with the District.

By: _____
(signature)

Printed Name and Title: _____

For and on behalf of: _____(company name)

EXHIBIT 'C'
STATEMENT OF BIDDER QUALIFICATIONS

Each bidder, for the work included in the specifications and bid documents, shall submit the information requested in the following questionnaire. This information must be included in, and made a part of, the bid proposal and be contained in the sealed envelope. Failure to comply with this instruction may be regarded as justification for rejecting the contractor's bid.

Name of Bidder: _____

Business Address: _____

When Organized: _____

Date Incorporated: _____

Number of years engaged in conducting business under present firm name: _____

If you have operated business under a different name, please give name and location.

Have you ever failed to complete any work awarded to your company? If so, where and why?

Have you ever defaulted on a contract? If so, where and why?

List any school district, government entity or tax-based organizations you work for currently, or have worked for in the past three (3) years. Please include name of organization, point of contact and contact information.

Name, address and telephone number of at least three references who are familiar with the job performance of your company on similar jobs:

Reference 1: _____

Reference 2: _____

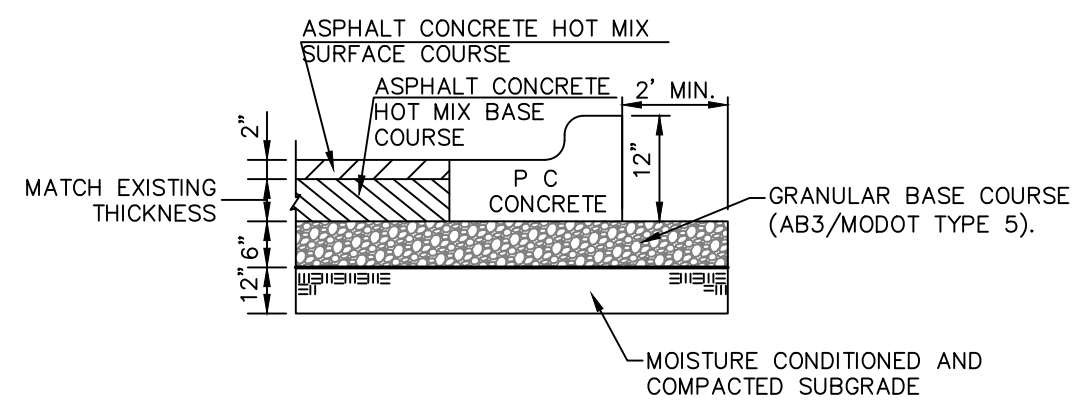
Reference 3: _____

EXHIBIT 'D'
CONSTRUCTION DOCUMENTS

SHEET C100 COMPASS ELEMENTARY SCHOOL

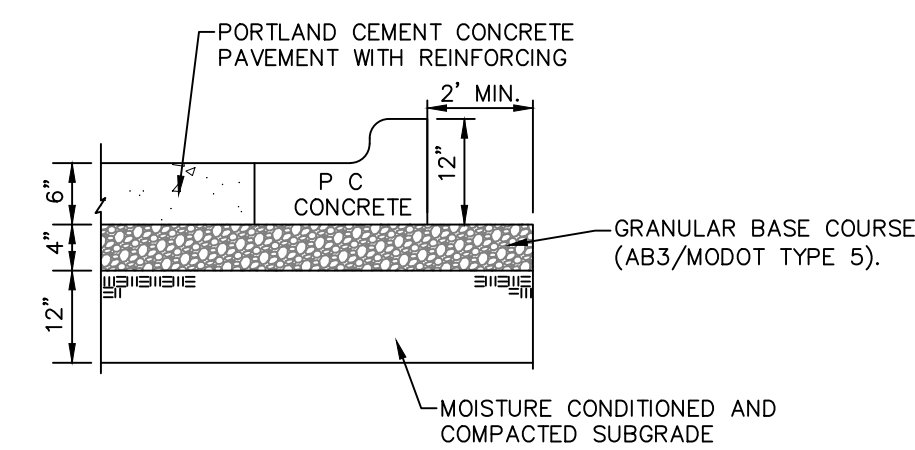
Kaw Valley Engineering Paving Notes and Details

Dated May 2, 2022

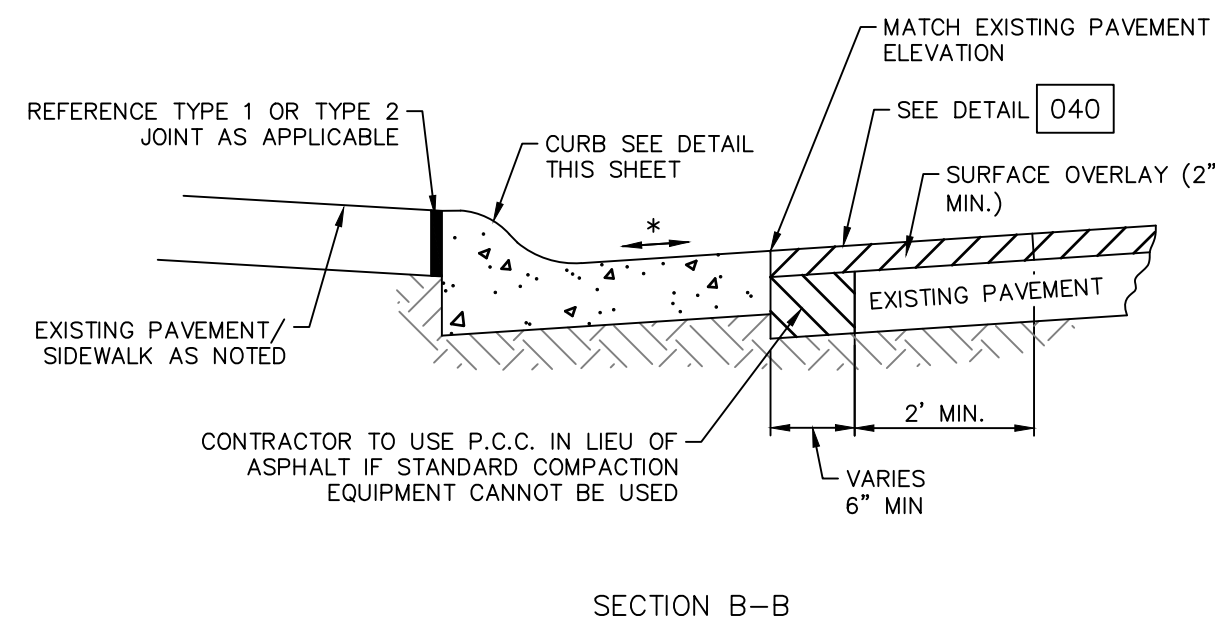
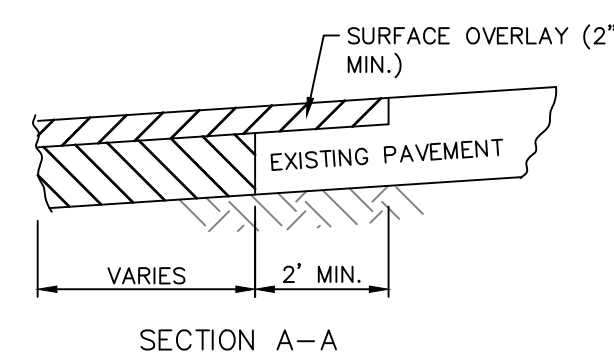


ASPHALT PAVEMENT

- FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST (FEBRUARY 2017) EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200 AS AMENDED BY PROJECT SPECIFICATIONS.
 - ASPHALT SURFACE COURSE - APWA TYPE 3-01
 - ASPHALT BASE COURSE - APWA TYPE 2-01



CONCRETE PAVEMENT



* REFERENCE SHEET C300 FOR SLOPE DIRECTION

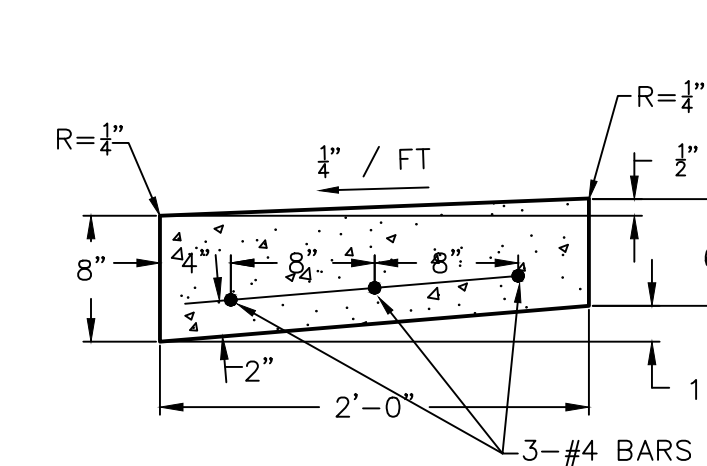
MILL AND OVERLAY DETAIL

DEMOLITION NOTES:

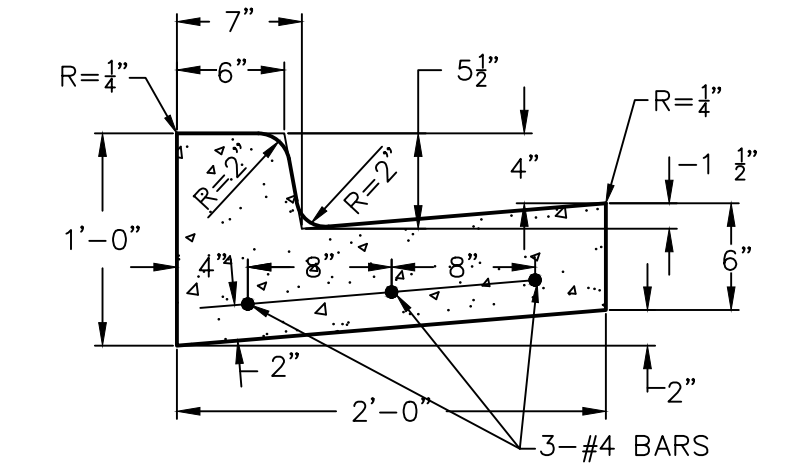
- CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE ALL CURBS, PAVEMENT, SIDEWALKS AND ALL OTHER STRUCTURES FROM WITHIN WORK AREA, IN ACCORDANCE WITH THE CURRENT EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS AS ADOPTED AND AMENDED BY THE LOCAL AUTHORITIES.
- DRIVES, PAVING AND OTHER STRUCTURES ON STREET RIGHT-OF-WAY SHALL BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS SHOWN ON THESE PLANS. REMOVAL AND DISPOSAL SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- CONTRACTOR IS RESPONSIBLE TO HAVE ALL UTILITIES MARKED TO THEIR SATISFACTION IN THE FIELD, ANY UTILITIES DAMAGED DURING THE DEMOLITION OR CONSTRUCTION OF IMPROVEMENTS SHOWN WILL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR.

CONCRETE PAVING AND SIDEWALK NOTES:

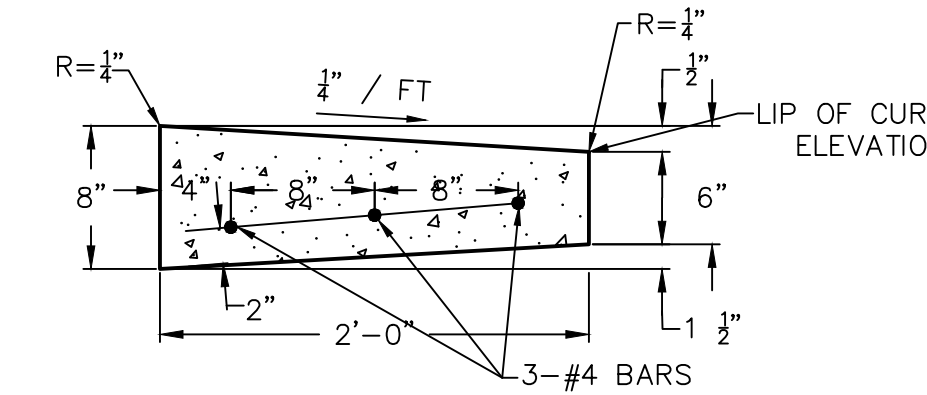
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AND COMPLY WITH KOMMB SPECIFICATIONS. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH APWA SECTION 2200. PROVIDE #4 BARS AT 2' O.C., BOTH WAYS, 2" CLEAR FROM BOTTOM OF SLAB.
- REINFORCING STEEL SHALL BE GRADE 60 AND COMPLY WITH ASTM A615. EPOXY COATED BARS AS NOTED SHALL COMPLY WITH ASTM A775. ALL CUT ENDS OR DAMAGED AREAS SHALL BE FIELD REPAIRED WITH EPOXY COATING.
- PAVING TO BE BROOM FINISHED.
- SUBGRADE TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. MOISTURE CONTENT TO BE WITHIN A RANGE OF 2% BELOW TO 2% ABOVE OPTIMUM MOISTURE AS DEFINED BY ASTM D698.
- JOINTS MAY BE SAWN.



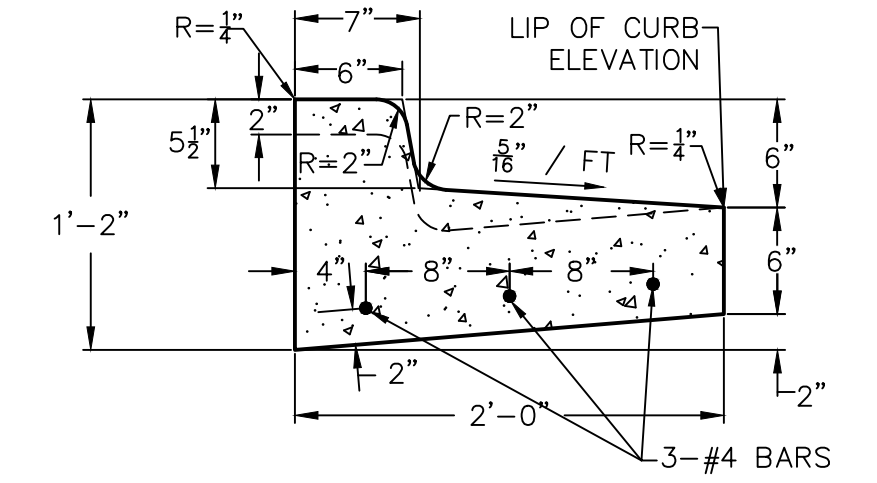
TYPE "C" EDGE CURB FOR DRAINAGE



FULL HEIGHT TYPE "B" CURB



STANDARD TYPE "C" DRY CURB AND AT RAMPS



FULL HEIGHT DRY CURB

ZERO HEIGHT CURB

FULL HEIGHT CURB

*GUTTER DEPTH MAY VARY TO IMPROVE DRAINAGE

CURB & GUTTER

N.T.S.

ASPHALT NOTES:

PAVING SHALL BE IN ACCORDANCE WITH THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200 AS AMENDED BELOW.

SURFACE MILLING FOR THE DRIVES AND PARKING LOTS SHALL BE COLD MILLED AS FOLLOWS:

- EQUIPMENT: MILLING THE SURFACE OF PAVEMENTS SHALL BE COMPLETED BY USE OF A MILLING MACHINE CONFORMING TO THE FOLLOWING.
 - MACHINE: THE COLD MILLING MACHINE SHALL BE SELF-PROPELLED AND SHALL HAVE IN COMBINATION THE MEANS OF MILLING AND CUTTING, WITHOUT SOFTENING THE OLD SURFACE AND BLADING THE CUTTING INTO A SINGLE WINDROW, OR DEPOSITING THEM DIRECTLY INTO A TRUCK.
 - AIR POLLUTION: THE MACHINE SHALL BE EQUIPPED WITH A DUST SUPPRESSION SYSTEM INCLUDING WATER STORAGE TANKS AND HIGH PRESSURE SPRAY BARS.
 - OPERATING WIDTH: IT IS DESIRABLE THAT THE CUTTING WIDTH BE GREATER THAN 1 FEET (0.3 m). IN THE EVENT THE CUTTING WIDTH IS LESS THAN 1 FEET (0.3 m) CONTRACTOR IS RESPONSIBLE FOR ENSURING GRADE CONTROL AS NOTED ON PLANS.
 - CUTTING DRUM: THE CUTTING DRUM SHALL BE TOTALLY ENCLOSED TO PREVENT DISCHARGE OF ANY LOOSENED MATERIAL ADJACENT TO WORK AREAS.
- CONSTRUCTION DETAILS
 - METHODS OF OPERATIONS FOR MILLING:
 - OPERATOR: THE MILLING MACHINE SHALL BE OPERATED BY AN EXPERIENCED AND CAPABLE OPERATOR.
 - UTILITIES: STREET SURFACES ADJACENT TO MANHOLE, WATER VALVES AND OTHER UTILITY EXTENSIONS, SHALL BE COMPLETELY REMOVED TO THE FULL DEPTH THE CUT SPECIFIED FOR THE STREET UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 - MATERIAL DISPOSAL: THE MATERIAL WITHDRAWN BY THE MACHINE SHALL BE REMOVED FROM THE SURFACE OF THE PAVEMENT AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
 - SURFACE CONDITIONS: THE DRUM LACING PATTERNS SHALL PRODUCE A SMOOTH SURFACE AFTER MILLING WITH GROOVE DEPTHS NOT TO EXCEED 1/4 INCH (0.64 cm) AND GROOVE SPACING NOT TO EXCEED 1 INCH (2.54 cm) UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - TYPES OF CUTS TO BE MADE BY MILLING:
 - EDGE MILL: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH AT THE MATCH LINE FOR A SPECIFIED WIDTH. THE DEPTH AT THE WIDTH FURTHEST FROM THE CURB IS 0. THESE DIMENSIONS WILL BE DESIGNATED ON THE PLANS.
 - CLEANUP: ALL LOOSE ASPHALT AND DEBRIS SHALL BE REMOVED FROM THE STREET SURFACE AND CURB AND GUTTER. ANY MATERIAL AND DEBRIS THAT ADHERES TO THE CURB AND GUTTER SHALL BE REMOVED.

CRACK SEALING/FILLING GUIDELINES:

CRACKS IN ASPHALT PAVEMENT (DETERIORATED (FATIGUE CRACKED OR RAVELED) BLOCK CRACKS AND TRANSVERSE CRACKS) IDENTIFIED TO BE FILLED SHALL BE FILLED UTILIZING ONE OF THE METHODS OUTLINED BELOW (DEPENDENT ON CRACK SIZE). THE CRACK FILLER SELECTED BY THE CONTRACTOR SHALL BE WORKED INTO THE CRACK BY HAND OR USING A MECHANICAL METHOD APPROVED BY THE ENGINEER, THE REPAIRED CRACK MUST BE FILLED COMPLETELY WITH ASPHALTIC MATERIAL.

TYPE 1. CRACKS IN ASPHALT PAVEMENT UP TO 1/2 INCH IN WIDTH SHALL BE BLOWN OUT WITH PRESSURIZED AIR OR CLEANED AND DRIED PRIOR TO SEALING WITH CRAFCO 34200 OR 34202 (OR APPROVED EQUAL) PARKING LOT SEALANT.

TYPE 2. CRACKS IN ASPHALT PAVEMENT BETWEEN 1/2 AND 2 INCHES IN WIDTH SHALL BE BLOWN OUT WITH PRESSURIZED AIR OR CLEANED AND DRIED PRIOR TO FILLING WITH A HOT-MIXED ASPHALT SAND MIX OR AN ASPHALT EMULSION MICROSURFACING MIX.

- IF A HOT-MIXED ASPHALT SAND MIX IS TO BE USED, IT MUST MEET THE REQUIREMENTS FOR MODOT BP-3.
- IF AN ASPHALT EMULSION MICROSURFACING MIX IS TO BE USED, IT MUST MEET ONE OF THE FOLLOWING REQUIREMENTS:

- MODOT SECTION 413.10, AND BE COMPOSED OF A TYPE II OR TYPE III AGGREGATE, TYPE 1 PORTLAND CEMENT MINERAL FILLER, AND AN ASPHALT EMULSION FOR MICROSURFACING, SECTION 1015.20.5.2
- KANSAS DOT REQUIREMENTS FOR EMULSION MICROSURFACING SHOULD MEET THE REQUIREMENTS OF SECTION 606, AND BE COMPOSED OF MICROSURFACING AGGREGATE MEETING THE REQUIREMENTS OF SECTION 1109, TYPE 1/11 PORTLAND CEMENT MINERAL FILLER, AND CSS-1HM ASPHALT EMULSION MEETING THE REQUIREMENTS OF SECTION 1202 OF THE 2015 KANSAS STANDARD SPECIFICATIONS.
- KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2206.7.

TYPE 3. CRACKS GREATER THAN 2 INCHES AND PATCHES SHALL BE ROUTED OUT OR EXCAVATED, EXPOSED EDGES OF EXISTING ASPHALT PAVEMENT PRIMED WITH SS-H EMULSION, FILLED, AND COMPACTED USING A HOT MIXED ASPHALT SIMILAR TO APWA TYPE 3-01 VIRGIN IN ACCORDANCE WITH THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200, CURRENT EDITION, IN INSTANCES WHERE SOFT SUBGRADE IS ENCOUNTERED DURING ROUTING OR EXCAVATING, THE EXISTING SUBGRADE SHALL BE REMOVED AND REPLACED WITH COMPACTED MODOT TYPE 5 AGGREGATE, AB-3 OR APPROVED EQUAL MATERIAL.

COAL TAR EMULSION SEAL COAT:

A. DESCRIPTION: THIS WORK SHALL CONSIST OF THE APPLICATION OF A DOUBLE COAL TAR EMULSION SEAL (MAC PRO-BLEND OR APPROVED EQUAL) TO AN EXISTING SURFACE. THE COAL TAR EMULSION SHALL BE PRODUCED BY A RECOGNIZED MANUFACTURER AND SHALL CONSIST OF A MIXTURE OF REFINED COAL TAR WITH CATALYZED RUBBER AND POLYMERS, DILUTED WITH POTABLE WATER AND CONTAINING FINE SAND AT THE ENGINEER'S DIRECTION AND IN COMPLIANCE WITH THE MANUFACTURER'S DIRECTIONS. THE COAL TAR EMULSION SHALL BE MIXED AND PLACED ON THE SURFACE IN ACCORDANCE WITH THIS SPECIFICATION AND AS DIRECTED BY THE ENGINEER.

B. MATERIALS:

- COAL TAR EMULSION: A COAL TAR EMULSION HOT BLENDED WITH SELECTED POLYMERS AND CATALYZED RUBBER MEETING THE REQUIREMENTS OF ASTM D-5727-95.
- POTABLE WATER: AS DIRECTED BY THE ENGINEER, THE COAL TAR EMULSION MAY BE DILUTED WITH POTABLE WATER UP TO A MAXIMUM OF 35% BY VOLUME OF THE CONCENTRATED COAL TAR EMULSION.
- AGGREGATE: THREE TO FIVE POUNDS OF CLEAN SILICA SAND OR SYNTHETIC AGGREGATE WITH AN AVERAGE GRAIN FINENESS BETWEEN 50 TO 70 SHALL BE ADDED PER GALLON OF COAL TAR EMULSION AND BE MIXED IN AT THE TIME OF BLENDING FOR INCREASED FRICTIONAL RESISTANCE AND TEXTURED APPEARANCE.

C. CONSTRUCTION REQUIREMENTS:

- APPLICATION RATES:

HIGH TRAFFIC AREAS:

- 1ST COAT - COAL TAR EMULSION WITH 3 TO 5 POUNDS OF AGGREGATE ADDED PER GALLON OF UNDILUTED EMULSION. COVERAGE RATE IS 0.10 TO 0.20 GALLONS PER SQUARE YARD.
- 2ND COAT - COAL TAR EMULSION WITH 3 TO 5 POUNDS OF AGGREGATE ADDED PER GALLON OF UNDILUTED EMULSION. COVERAGE RATE IS 0.09 TO 0.11 GALLONS PER SQUARE YARD.
- 3RD COAT - COAL TAR EMULSION WITH 3 TO 5 POUNDS OF AGGREGATE ADDED PER GALLON OF UNDILUTED EMULSION. COVERAGE RATE IS 0.08 TO 0.10 GALLONS PER SQUARE YARD.

MEDIUM TO LOW TRAFFIC AREAS:

- 1ST COAT - COAL TAR EMULSION WITH 3 TO 5 POUNDS OF AGGREGATE ADDED PER GALLON OF UNDILUTED EMULSION. COVERAGE RATE IS 0.10 TO 0.12 GALLONS PER SQUARE YARD.
- 2ND COAT - COAL TAR EMULSION WITH 3 TO 5 POUNDS OF AGGREGATE ADDED PER GALLON OF UNDILUTED EMULSION. COVERAGE RATE IS 0.09 TO 0.10 GALLONS PER SQUARE YARD.

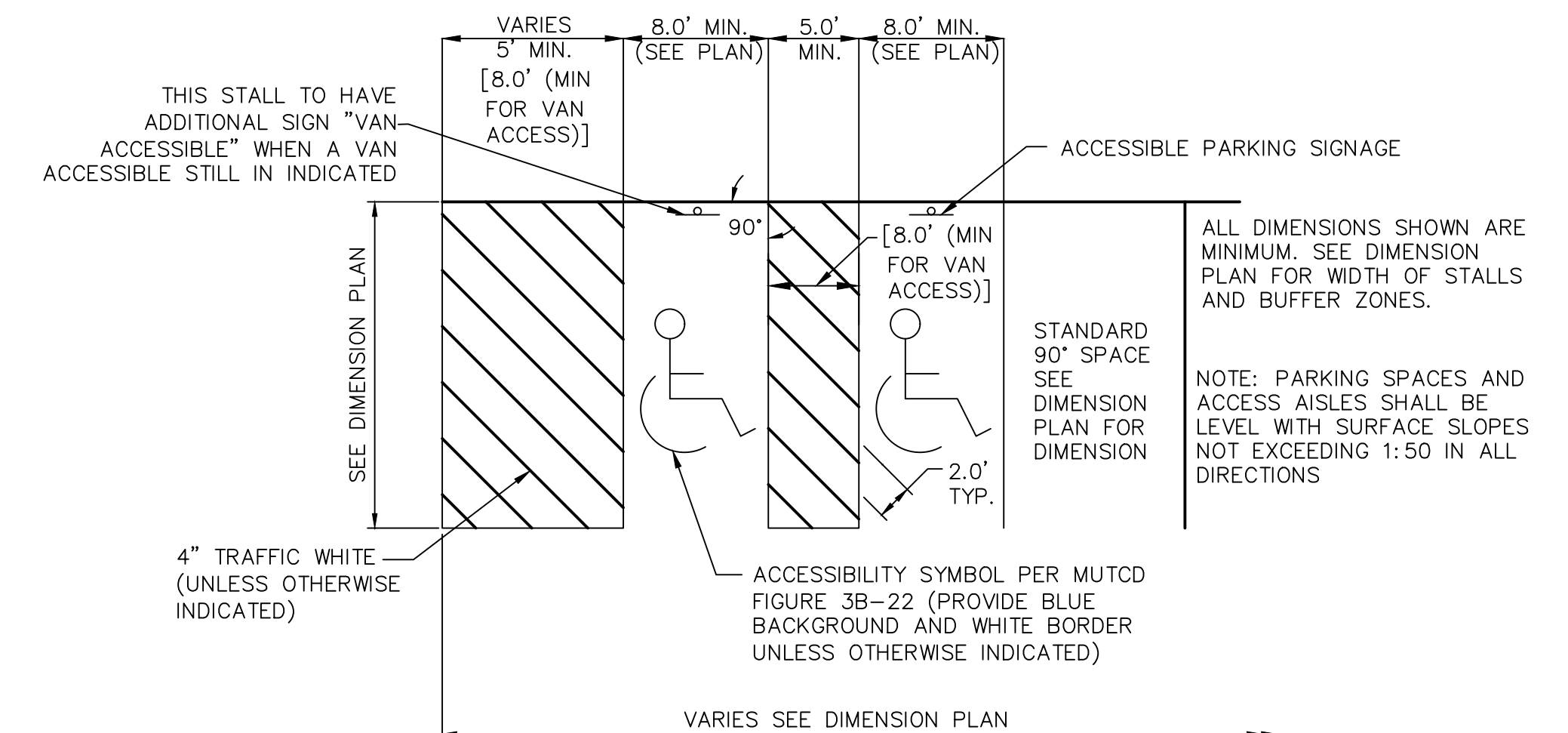
- EQUIPMENT: THE COAL TAR EMULSION SHALL BE APPLIED TO THE PAVEMENT SURFACE USING AN ASPHALT DISTRIBUTOR. THE DISTRIBUTOR SHALL BE SO DESIGNED, EQUIPPED, MAINTAINED AND OPERATED THAT LIQUID ASPHALT OR COAL TAR EMULSION AT EVEN HEAT MAY BE APPLIED UNIFORMLY ON VARIABLE WIDTHS OF SURFACE UP TO 15- FEET AT READILY DETERMINED AND CONTROLLED RATES FROM 0.02 TO 1.00 GALLON PER SQUARE YARD, WITH UNIFORM PRESSURE, AND WITH AN ALLOWABLE VARIATION FROM ANY SPECIFIED RATE NOT TO EXCEED 0.02 GALLONS PER SQUARE YARD. DISTRIBUTOR EQUIPMENT SHALL INCLUDE A TACHOMETER, PRESSURE GAUGES, A CALIBRATED TANK, AND A THERMOMETER FOR MEASURING TEMPERATURES OF TANK CONTENTS. DISTRIBUTORS SHALL BE EQUIPPED WITH A POWER UNIT FOR THE PUMP, AND FULL CIRCULATION SPRAY BARS ADJUSTABLE Laterally AND VERTICALLY. THE CALIBRATION OF ALL DISTRIBUTORS MUST BE APPROVED BY THE ENGINEER, AND THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT, MATERIAL, AND ASSISTANCE NECESSARY IF CALIBRATION IS REQUIRED.

HAND SQUEEGEES, BROOMS, AND OTHER EQUIPMENT SHALL BE PROVIDED AS NEEDED TO SUPPLEMENT SPREADING OPERATIONS. POWER BROOMS, POWER BLOWERS, AIR COMPRESSORS, AND HAND BROOMS SUITABLE FOR CLEANING THE SURFACE AND CRACKS OF THE EXISTING SURFACE SHALL BE IMPLEMENTED TO PROVIDE A CLEAN SURFACE.

2. CONSTRUCTION REQUIREMENTS:

- SURFACE PREPARATION: IMMEDIATELY PRIOR TO APPLYING THE COAL TAR EMULSION, CLEAN THE SURFACE OF ALL LOOSE MATERIAL, MUD SPOTS, VEGETATION, AND OTHER OBJECTIONABLE MATERIAL. ANY STANDARD CLEANING METHOD USED TO CLEAN PAVEMENTS WILL BE ACCEPTABLE EXCEPT WATER FLUSHING. A PICKUP SWEEPER MUST BE USED UNLESS OTHERWISE APPROVED BY THE ENGINEER. MANHOLES, VALVE BOXES, DROP INLETS, AND OTHER SERVICE ENTRANCES SHALL BE PROTECTED FROM THE COAL TAR EMULSION SEAL BY A METHOD APPROVED BY THE ENGINEER.
 - APPLICATION: THE COAL TAR EMULSION MIXTURE SHALL BE PLACED USING THE DISTRIBUTOR AT THE DESIRED CONSISTENCY UPON DEPOSIT ON THE SURFACE AND NO ADDITIONAL ELEMENTS SHALL BE ADDED. A SUFFICIENT AMOUNT OF COAL TAR EMULSION SHALL BE CARRIED IN THE DISTRIBUTOR AT ALL TIMES SO THAT COMPLETE COVERAGE OF THE SURFACE IS OBTAINED. OVERLOADING OF THE SURFACE SHALL BE ADDRESSED IMMEDIATELY USING SQUEEGEES AND BROOMS TO OBTAIN THE REQUIRED COATING THICKNESS.
- MULTI COAT APPLICATIONS: FOR ALL MULTI COAT APPLICATIONS, ALL COATS (EXCEPT THE LAST COAT) OF COAL TAR EMULSION MIXTURE SHALL BE WORKED WITH HAND SQUEEGEES TO PROMOTE FILLING OF CRACKS AND VOIDS WITH THE COAL TAR EMULSION MIXTURE. FINAL COAT OF COAL TAR EMULSION MIXTURE MAY BE SPRAY APPLIED USING THE DISTRIBUTOR EQUIPMENT AS DESCRIBED ABOVE. CARE SHOULD BE EXERCISED IN LEAVING NO UNSIGHTLY APPEARANCE FROM HAND OR DISTRIBUTOR WORK.
 - HAND WORK: APPROVED SQUEEGEES SHALL BE USED TO SPREAD COAL TAR EMULSION IN AREAS NOT ACCESSIBLE TO THE COAL TAR EMULSION DISTRIBUTOR. CARE SHOULD BE EXERCISED IN LEAVING NO UNSIGHTLY APPEARANCE FROM THE HAND WORK.
 - CURING: THE CURE TIME WILL VARY ACCORDING TO TEMPERATURE AND RELATIVE HUMIDITY. UNDER IDEAL DRYING CONDITIONS (80° F AND 50% RELATIVE HUMIDITY), ALLOW AT LEAST 1 TO 2 HOURS BETWEEN SUCCESSIVE COATS AND 20 TO 24 HOURS AFTER THE APPLICATION OF THE LAST COAT PRIOR TO OPENING TO TRAFFIC.
 - WEATHER LIMITATION: THE COAL TAR EMULSION SEAL SHALL NOT BE APPLIED UNLESS THE SURFACE AND AIR TEMPERATURE ARE A MINIMUM OF 50° F AND RISING. DO NOT APPLY THE COAL TAR EMULSION SEAL ON RAINY, FOGGY, OR EXTREMELY HUMID DAYS, OR IF RAIN IS FORECAST WITHIN 24 HOURS.
 - TRAFFIC CONTROL: SUITABLE METHODS SHALL BE USED TO PROTECT THE COAL TAR EMULSION FROM ALL TYPES OF TRAFFIC UNTIL SUFFICIENTLY CURED TO ACCEPT TRAFFIC. THE LENGTH OF TIME BEFORE TRAFFIC IS PERMITTED TO USE THE SURFACE DEPENDS ON THE WEATHER CONDITIONS.
 - LINES: CARE SHALL BE TAKEN TO INSURE STRAIGHT LINES ALONG CURB AND SHOULDERS. NO RUNOFF ON THESE AREAS WILL BE PERMITTED. LINES AT INTERSECTIONS WILL BE KEPT STRAIGHT TO PROVIDE GOOD APPEARANCE.
 - PROPERTY OWNERS NOTIFICATION: THE CONTRACTOR SHALL SUPPLY AND PLACE DOOR TAGS ON THE DOORS OF ALL INVOLVED PROPERTY OWNERS. THE DOOR TAG SHALL COMPLY WITH THE SAMPLE LANGUAGE PROVIDED BY THE ENGINEER.
 - PROVISIONS FOR PUBLIC CONVENIENCE DURING SEALING OPERATION: THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT SIGNS, BARRICADES, WARNING LIGHTS, FLAG PERSONS AND WATCH PERSONS TO PROTECT THE WORK AND PUBLIC IN A MANNER SATISFACTORY TO THE ENGINEER. ANY AREAS DAMAGED PRIOR TO ACCEPTANCE BY THE CITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

"NO PARKING" SIGNS WILL BE FURNISHED BY THE CONTRACTOR. THESE SIGNS SHALL COMPLY WITH THE STANDARDS ESTABLISHED BY THE MUTCD WITH REGARD TO SIZE, COLOR, WORKING HEIGHT AND PLACEMENT. WHEN "NO PARKING" SIGNS ARE POSTED ON THE STREETS WITH PARKING METERS, THE CONTRACTOR SHALL COVER THE PARKING METER HEADS WITH CLOTH OR PAPER BAGS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE PUBLIC (PEDESTRIAN AND VEHICULAR) FROM FLYING DEBRIS. THE CONTRACTOR SHALL USE WARNING SIGNS AND DEVICES TO WARN MOTORISTS AND PEDESTRIANS OF WORK AHEAD.



90° SPACE STRIPING

ACCESSIBLE STRIPING

PAVEMENT MARKINGS:

- CONTRACTOR IS RESPONSIBLE TO RESTRIPE PARKING LOTS AFTER MAINTENANCE WORK IS COMPLETE. ALL STRIPES TO BE A MINIMUM OF 4" IN WIDTH.
- CONTRACTOR RESPONSIBLE TO REMARK ALL MARKINGS, CROSSWALKS & PARKING STALLS TO MATCH EXISTING UNLESS NOTED OTHERWISE.
- ADA SYMBOLS TO BE MARKED IN ACCORDANCE WITH MUTCD 3B-22 REQUIREMENTS. PROVIDE BLUE BACKGROUND.

PAVEMENT MARKING SPECIFICATIONS:

PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF KANSAS CITY, MISSOURI CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION SPECIFICATIONS SECTION 2306 AS ADOPTED AND AMENDED BY THE LOCAL AUTHORITIES.

MARKING MATERIALS:

APWA 2306.7G
PARKING STALLS STRIPING AND SYMBOLS
ALL SURFACES - TRAFFIC MARKING PAINT. COLOR AS INDICATED.