

ADDENDUM:	3	TODAY'S DATE:	7/12/24
PROJECT NAME:	Juanita Court Paving Improvements		
CONTACT / TITLE:	Carl Frankel	PROJECT MANAGER	
PHONE / EMAIL:	206.574.1249	carlf@kcha.org	

This Addendum is used to Identify Items in the Original Documents with Action as Follows:

- BID**

 RFQ

 RFP
- CLARIFY**

 CHANGE

 DELETE

 ADD

 SUBSTITUTE

11 Page(s) Total for this Addenda including this page.

CHANGE:

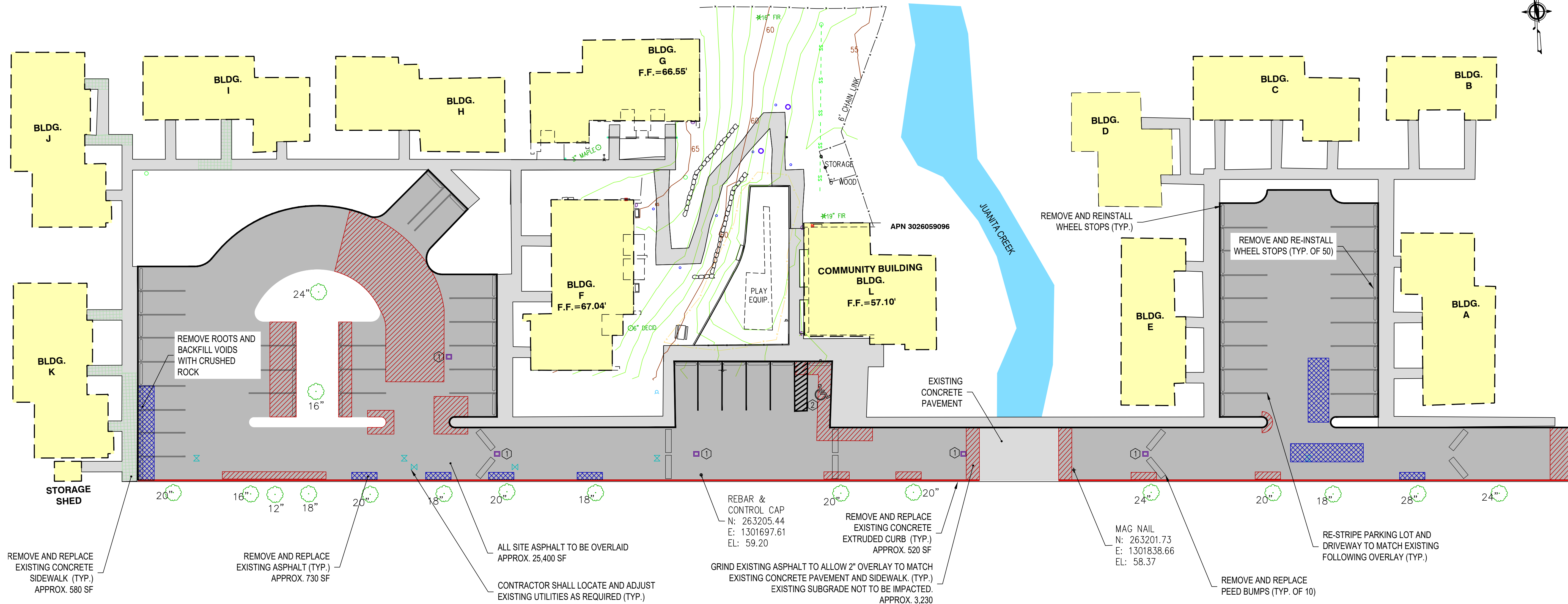
- 1. OMIT plan page P01 sheet 01 and replace with P01 REVISED Page Attached.**

ADD:

- 1. Non-Woven Geotextile Fabric to be used at locations changed on plans.**
- 2. Specification 321267 asphalt mix.**

END OF ADDENDUM #3

KING COUNTY HOUSING AUTHORITY
JUANITA COURT IMPROVEMENTS
PROPOSED SITE PLAN



PROPOSED SITE PLAN
 1" = 20'

REVISED BID SET PLAN
ADDENDUM #3

LEGEND	
	REMOVE AND REPLACE CONCRETE WALKWAY
	GRIND ASPHALT
	REMOVE AND REPLACE ASPHALT
	REMOVE AND REPLACE EXTRUDED CURB

NOTE:
 ① PROVIDE CATCH BASIN INSERT FOR THE DURATION OF CONSTRUCTION. INSPECT CATCH BASIN INSERTS DAILY AND REMOVE SEDIMENT WHEN 1/3 FULL.
 ② ADA STALL TO MEET STATE/FEDERAL REQUIREMENTS.

NO.	DATE	DESCRIPTION	BY	REVIEW

SCALE: SHOWN
 DRAWING IS FULL SCALE WHEN BAR MEASURES 2"
 DWG NO.: P01
 SHEET NO.: 01



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MATERIAL SAFETY DATA SHEET

PRODUCT NAME: NON-WOVEN NEEDLE PUNCH POLYPROPYLENE
GEOTEXTILE FABRIC

CHEMICAL FAMILY: BLEND OF MATERIALS; PRIMARILY POLYPROPYLENE

OSHA HAZARD: NONE

DESCRIPTION: BLACK GEOTEXTILE FABRIC

HAZARD SUMMARY

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED IN CFR1910.1200

HEALTH HAZARDS

EYE CONTACT: PARTICLES MAY SCRATCH EYE SURFACES / CAUSE MECHANICAL
IRRITATION

SKIN CONTACT: NO HAZARD IN NORMAL INDUSTRIAL USE

INGESTION: NO HAZARD IN NORMAL INDUSTRIAL USE

INHALATION: NO HAZARD IN NORMAL INDUSTRIAL USE

EMERGENCY FIRST AID PROCEDURES

INHALATION: IN CASE OF ADVERSE REACTION, IMMEDIATELY REMOVE THE AFFECTED
VICTIM FROM EXPOSURE TO FRESH AIR. IF ADVERSE CONDITIONS
PERSIST, CONTACT PHYSICIAN

INGESTION: FIRST AID IS NORMALLY NOT REQUIRED

EYE CONTACT: THIS PRODUCT IS AN INERT SOLID. IF IN EYE, REMOVE AS ONE WOULD
ANY FOREIGN OBJECT. IF IRRITATION PERSISTS, CONTACT PHYSICIAN



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FIRE AND EXPLOSION DATA Continued

**SPECIAL FIRE FIGHTING
PROCEDURES:**

**SPRAY WITH WATER, WEAR SCBA AND PROTECTIVE CLOTHING
TO PREVENT CONTACT WITH SKIN**

UNUSUAL FIRE & EXPLOSION

HAZARDS:

STRONG TO SEVERE (if blanket comes in contact with ignition source)

REACTIVITY DATA

STABILITY:

STABLE

INCOMPATIBILITY:

**AVOID CONTACT WITH OXIDIZING AGENTS, DRYING OILS, FLAME,
TEMPERATURES OVER 400 DEGREES F**

POLYMERIZATION:

WILL NOT OCCUR

HAZARDOUS DECOMPOSITION

PRODUCTS:

**COMBUSTION WILL PRODUCE CARBON DIOXIDE, CARBON
MONOXIDE, ALDEHYDES, AND INORGANIC ACIDS**

HEALTH HAZARDS

EXPOSURE LIMITS:

N/A

EYE CONTACT:

NO SPECIFIC HAZARD

SKIN CONTACT:

MOLTEN MATERIAL WILL PRODUCE THERMAL BURNS

INGESTION:

LOW HAZARD

INHALATION:

MAY CAUSE NASAL DRYNESS, IRRITATION AND OBSTRUCTION

EMERGENCY FIRST AID PROCEDURES

INHALATION:

**REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF DIFFICULTY
IN BREATHING OCCURS**

INGESTION:

N/A

EYE CONTACT:

**WASH WITH WATER. IF IRRITATION DEVELOPS, GET MEDICAL
ATTENTION**



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EMERGENCY FIRST AID PROCEDURES Continued

SKIN CONTACT: IF BURNED BY CONTACT WITH MOLTEN MATERIAL, COOL QUICKLY AND GET MEDICAL ATTENTION

NOTE TO PHYSICIAN: BURNS SHOULD BE TREATED AS THERMAL BURNS. PLATIC WILL COME OFF AS HEALING OCCURS

SPILL AND LEAK PROCEDURE

REMOVAL AND DISPOSAL: CLEAN UP AND INCINERATE OR BURY ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS

SPECIAL PRECAUTIONS

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICES, HANDLE WITH CARE, AVOID CONTACT WITH OXIDIZING MATERIALS AND PROVIDE VENTILATION.

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. There is no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein.



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NW 35 NON-WOVEN GEOTEXTILE

This letter is to certify that the NW 35, a non-woven polypropylene fabric supplied by Mutual Industries, meets the fabric properties listed below:

Grab Tensile Strength:	ASTM D-4632	90 LBS
Grab Elongation:	ASTM D-4632	50 %
Trapezoid Tear:	ASTM D-4533	35 LBS
Puncture:	ASTM D-4833	55 LBS
Mullen Burst:	ASTM D-3786	185 PSI
Permittivity:	ASTM D-4491	2.2 SEC-1
Permeability:	ASTM D-4491	.2 CM/SEC
A.O.S.	ASTM D-4751	.21 US Sieve
Water Flow Rate	ASTM D-4491	110 GPM/FT 2
U.V. Resistance (500 hr)	ASTM D-4355	70 %



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NW 35

NON-WOVEN GEOTEXTILE

Non-woven geotextiles are multi-purpose fabrics that are felt-like in appearance. There are numerous practical applications for non-woven geotextiles. Non-woven drainage fabrics are an economical alternative to graded aggregate and sand filters and can eliminate many of the problems associated with using, purchasing and transporting aggregate.

Another use for a non-woven geotextile is as asphalt overlay fabric. Overlay fabric increases pavement life by providing a solution for reflective cracking. In addition, non-woven geotextiles are used in landscaping applications such as landscape fabric to retard weed growth. They are also useful for separation, performing well under such diverse applications as paver walkways or railroad track. As cow carpet, they provide farmers with a solution to mud problems and improve animal health.

Mutual Industries' full line of non-woven geotextile products are made from staple filaments of polypropylene fiber and are needle-punched and heat set. They range from light weight (3 to 6 oz/sy), to medium weight (6 to 10 oz/sy), to heavy weight (10 to 16 oz/sy).

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. Asphalt pavement patching.
 - 2. Hot-Mix Asphalt (HMA)

1.2 RELATED SECTIONS

- A. Section 311000 - Site Preparation
- B. Section 312200 -Earthwork
- C. Section 321723 - Pavement Markings

1.3 REFERENCES

- A. AP AW Designs and Specifications for Asphalt Concrete Pavements and Bases, 1990 Edition.
- B. ANSI/ASTM C136 Method for Sieve Analysis of Fine and Coarse Aggregates
- C. ANSI/ASTM D1557 Test Methods for Moisture - Density Relations of Soils and Soil-Aggregate Mixtures using 10 lb. Rammer and 18-inch Drop
- D. ASTM D2950 Standard Test Method for Density of Bituminous Concrete in Place by Nuclear Methods

1.4 SUBMITTALS

- A. The Contractor shall submit to the Owner written materials containing the following information:
 - 1. Materials to be used and the proposed method of application and procedures to be followed.
- B. Submit Certificates
 - 1. Furnish certification that all materials comply with Specification requirements; include laboratory test reports verifying compliance.
 - 2. Mixing plant to be member of Asphalt Paving Association of Washington (APAW) and approved by Owner.

1.5 QUALITY ASSURANCE

- A. The Contractor must have five (5) years' experience in work of this nature and have the equipment and personnel required for the work specified. The Contractor must acquaint themselves with all work related to site improvements and other work. Payment for testing under this section shall be as follows:
 - 1. Payment for testing under this section shall be as follows:
 - a. The first run of any test of a given sample of workmanship will be paid for by the Owner. Where possible, the Owner's Consultant will perform the initial test. In the event that the Owner's Consultant capabilities are insufficient to perform the test in a timely manner, the test will be performed by the Contractor at a reasonable cost to the Owner.
 - b. In the event the sample of workmanship is found to be deficient in some way as a result of the initial test, the contractor shall remove from the project site(s) that work or material, and provide work or material as specified and with satisfactory test results at no additional cost to the Owner.
 - 2. Test Reports shall be done under the supervision of the Contractor and in accordance with the General and Supplementary Conditions of the Contract. Tests must be performed by a certified testing agency or licensed laboratory. The Owner's Consultant may require execution of tests described below, at the Contractors expense. Two copies of the results of each test shall be submitted to the Owner's Consultant for approval prior to continuation of the work to be tested, unless otherwise directed. The following testing

methods shall be performed according to the WSDOT Standard Specifications (most recent edition):

- a. ASTM C131 Test Method for Resistance to Degradation of Small Size Course Aggregate.
- b. ASTM D1557 Test Method for Moisture Density Relations of Soils and Soil-Aggregate Mixtures Using 10-16 (4.54 kg) Rammer and 18-in (457 mm) Drop.
- c. WSDOT Test Method of test for Determination of Method 705 Degradation Value.
- d. WSDOT Test Maximum Specific Gravity of Bituminous Paving Mixtures Method 113.
- e. Other tests as may be referenced elsewhere in this Section.

1.6 WARRANTY

- A. Note that work correction is to include soft spots, pumping, aggregate separation, settlement, puddling, and/or uneven finish not level with adjacent existing surfaces. Correction may involve removal and replacement of the material if condition is determined to be irreparable, at the discretion of the Owner, and at no additional cost to the Owner.

PART 2 PRODUCTS

2.1 BASE AGGREGATE

- A. CSTC per WSDOT Standard Specification (most recent edition). The sand equivalent shall be 40% (max.) and the L.A. Abrasion shall be 35% (max.). Gradation of the base course shall be as follows:

SIEVE SIZE	% PASSING
5/8" Square	100
1/4" Square	55 - 75
U.S. #40	8 - 24
U.S. #200	0 - 10

2.2 HOT MIX ASPHALT (HMA) WEARING COURSE

- A. HMA - Class B - 3/8" aggregate.
- B. Hot-Mix Asphalt: Dense, hot-laid, hot-mix asphalt plant mixes approved by AHJ and designed according to procedures in AI MS-2, "Mix Design Methods for Asphalt Concrete and Other Hot-Mix Types."
 - 1. Provide mixes with a history of satisfactory performance in geographical area where project is located.
 - 2. Provide mixes complying with composition, grading, and tolerance requirements in ASTM D 3515.
- C. Mineral Aggregate: Mineral Aggregate shall meet the requirements of the WSDOT Standard Specifications (most recent edition, "HMA Aggregate Gradations") and shall meet the following requirements:

SIEVE SIZE	% PASSING
1" Square	100
3/4" Square	90 - 100
1/2" Square	90 Max.
U.S. #8	23 - 49
U.S. #200	2.0 - 7.0

D. Bituminous Materials

1. HMA furnished under these specifications shall not have been distilled at a temperature high enough to injure by burning or to produce flecks of carbonaceous matter, and upon arrival at the work, shall show no signs of separation into lighter and heavier components.
2. HMA shall be Medium Curing liquid Asphalt, meeting or exceeding the characteristics defined in the WSDOT Standard Specifications, and the following additional requirements:

CHARACTERISTIC	VALUE RANGE
Mineral Filler	3.0 – 7.0%
Hot Mix Asphalt	4.0 – 7.5% of total mixture
Sand – Silt Ratio	5.5 – 10.5 %

PART 3 EXECUTION

3.1 BARRIERS

- A. The Contractor shall erect and maintain barricades, canopies, guards, and warning signs to the extent required by law and as is prudent for the protection of the public and protection of the work.

3.2 NEW HMA PAVING (PATCHING)

- A. In areas of new paving, or where existing paving has been removed during the demolition phase of work, new asphaltic concrete paving shall be placed over compacted base aggregate. Recycled asphalt or other recycled paving materials shall not be used as sub-base materials.
- B. Place base aggregate as required to attain a total depth of 6 inches and compact to 95 percent density.
 1. Patching: If existing base material does not meet requirements for density, Contractor shall remove the existing base material in the areas to be patched and install new base aggregate to a depth of 6 inches and compact to 95 percent density.
 2. New HMA Pavement: Place a minimum of 6 inches of base aggregate and compact to 95% density.
- C. Install new HMA - Class B - 3/8" aggregate, per paragraph 3.06. Minimum HMA thickness shall be 3 inches.
 1. New HMA patching shall meet the grade of adjacent existing asphaltic concrete paving (to remain). Edges of new and existing pavement shall be flush without ridges or gaps; tack sealed as required and shall be tamped at a 45 degree angle on all exposed edges.
 2. New HMA pavement edges shall be tapered to meet existing or proposed grades as required or as directed by the Owner.

3.2 TACK COAT

- A. All new asphalt pavement patching shall abut existing asphalt pavement that has been machine saw-cut prior to patching operations. The new asphalt shall be allowed sufficient time to cure (min. 24 hrs.) before applying the tack coat. The tack coat shall be applied in an even manner, adequately covering the joints in all directions. All asphalt pavement areas shall be cleaned prior to beginning the tack coat applications.
- B. An asphalt tack coat shall be applied uniformly in controlled amounts throughout areas to receive paving fabric. Apply tack coat at the rate of 0.20 - 0.30 gallons per square yard

(optimum application rate is 0.25 gallons per square yard) using a mechanical distributor meeting the requirements of the WSDOT Standard Specifications. Tack coat application rates may be monitored by the Owner or Owner's Consultant to verify compliance with this paragraph.

- C. The allowable temperature range for tack coat material is 290 - 325 degrees Fahrenheit.
- D. Where the new HMA paving abuts a curb or gutter, cold pavement joint, trimmed meet line, or any metal surface, a thin tack coat of asphalt shall be applied on the vertical face of the abutting surface by hand painting prior to paving. The application on the contact surfaces shall be thin and uniform in order to avoid an accumulation of excess HMA in puddles. The Contractor shall not apply the tack coat on vertical contact surfaces above the finished height of the asphalt concrete being placed. Tack coat to extend three inches beyond the edge of fabric area.

3.3 HOT MIX ASPHALT

- A. Placement: A course of HMA shall be installed to match the existing lines and grades of existing paving.
- B. The hot plant mix shall have an installation temperature of 275 - 300 degrees.
- C. Compaction thickness shall match the existing pavement thickness but in no case shall the compacted thickness be less than 3 inches in areas that are to be used as parking lots, service roads, ramps, and other load bearing surfaces.
- D. Compaction shall be accomplished by rolling with a powered steel wheel tandem roller weighing not less than 3, and not more than 5 tons; the finish roller weighing not less than 1 ton. The hot plant mix shall be spread by methods and in a manner to produce a uniform density and thickness to meet a tolerance of 1/4 inch in 10 feet measured in any direction.

3.4 DEFECTIVE WORK

- A. Remove and replace defective work not conforming to plan and specifications specified tolerances at the Contractor's own expense.

3.5 CURING AND CLEANING

- A. After completion of paving operations, clean surfaces of excess or spilled asphaltic materials. A high- pressure washer, air broom or hand sweeper shall be used as required. Removal of grease and oil may require the use of a strong detergent only as approved by the Owner. After using detergents the surface must be thoroughly flushed with water and removed from the site while not allowing the detergent to enter the storm sewer system.
- B. Do not permit vehicular traffic on HMA pavement until it has cooled and hardened, and in no case sooner than six (6) hours after placing. New HMA pavement must be completely cured (minimum of seven days of warm, dry weather, longer if cold or damp), prior to application of any materials.

END OF SECTION