SECTION 02580

PAVEMENT MARKING

PART 1 - GENERAL

1.1 SUMMARY:

A. Section Includes:
   1. Directional arrows.
   2. Handicapped symbol marking.
   3. Lane marking.
   5. In-laid thermo-plastic markings.
   6. ADA Detectable warnings

B. Related Sections:
   1. Section 02513 - Asphaltic Concrete Paving.
   2. Section 09900 - Painting.

1.2 QUALITY ASSURANCE:

A. Mock-Up:
   1. Provide samples of the following:
      a. Traffic lane stripe, 10 linear feet.
      b. One parking stall stripe.
      c. Handicapped symbol.
      d. One curved directional arrow.
      e. One straight directional arrow.
   2. Approved samples may remain as part of the final work. Rejected samples
shall be removed from the substrate.

1.3 PROJECT CONDITIONS:

A. Do not apply in-laid thermo-plastic marking when surface or air temperature is less than 55° F., or when moisture content of substrate is above manufacturer’s recommendations.

PART 2 - PRODUCTS

2.1 MATERIALS:

A. Lane Marking Paint:

1. Opaque White: Matching Federal Standard 585 for white paint and having the daylight directional reflectance specified in FS TT-P-115f, Type I.

2. Yellow: Match color chip No. 13538 of Federal Standard 595A with yellow color within the green and red tolerance limits when compared with the latest Highway Yellow Color Tolerance Chart, PR Color No. 1, U.S. Department of Transportation, Federal Highway Administration.

B. In-Laid Thermo-Plastic Markings:

1. Provide "Cata-Therm" by Cataphote, Inc., 1-800-221-2574, white reflective color, or approved substitute alkyd-based thermo-plastic material complying with AASHTO M249.

2. Provide drop-in glass beads which are skid-resistant and which comply with the City of Boulder standards.

C. ADA Compliant Detectable Warning Pavers

1. Provide "ADA Compliant Paver-Prod. No. 200" by Pavestone Company 1-719-322-0101 or approved alternative complying to ADA Accessibility Guidelines: Sections 4.29.1-6.

PART 3 - EXECUTION

3.1 APPLICATION:

A. Apply with mechanical equipment to produce a wet film thickness not less than 0.015" and 4" line widths unless otherwise required.
B. Handicap Parking:

1. Standard space 8.5 with the ADA stencil (International symbol for handicap parking) centered in the stall. Stall shall be painted with a 5’x4’ blue background with white stencil centered within the background. Blue background shall be bordered with 3” white traffic paint. Stencil top shall face the front of the parking stall. Color pallet shall be traffic White and Traffic blue paint.

2. Curbing shall not be painted.

C. In-Laid Thermo-Plastic Markings:

1. Provide for all crosswalks and stop bars.

2. Saw or grind grooves in pavement for application of thermo-plastic material.

3. Prime substrate as required by manufacturer.

4. Install in accordance with manufacturer's instructions. Apply in 250 to 400 mil thickness. Apply such that cooled material is flush with or slightly above groove lip.


7. Handicap Parking: Applications shall be white stencil on Blue 40”40” square (centered in the stall) with 3” painted white border.

8. Glass Beads: Drop into thermo-plastic material immediately after application.

D. No Parking Zones:

1. Use yellow hatch pattern for all areas designated as No Parking Zone areas. Stripes are to be diagonal and spaced at two foot on center.

2. Areas to be designated as no parking zones:
   a. Areas at the ends of parking stall islands.
   b. Along curb edges that are not indicated as loading zones.
   c. Within pedestrian right of ways, excluding crosswalks.
E. Loading Zones:

1. Use white hatch pattern for all areas designated as Loading Zones. Stripes are to be diagonal and spaced at two foot on center.

2. Areas to be designated as Loading Zones:
   a. ADA access aisles.
   b. Areas signed as loading zone only.

F. Size of parking stalls:

1. Parking stalls will be 8’-6” minimum in width by 19’-0” in depth.
   a. If existing area is being re-striped and stalls are not the above standard this will need to be identified with PTS to determine if a variance in size will be approved for this area.
   b. Exception: ADA stalls are required to meet the minimum size requirement as set by ANSI A117.1 current version.

2. The general contractor will be responsible for mapping existing stall layout and replacing existing in kind. (See also exception above.)

3. All parking layouts new or existing will require a striping plan to be submitted to PTS for review. This plan should indicate:
   a. number of stalls
   b. spacing of stalls
   c. size of stalls
   d. color of striping
   e. material of striping (standard vs. thermal)

4. Motorcycle stalls will be 4’-0” in width by 5’-0” in depth.

G. ADA Detectable Warning:

1. Truncated domes shall be a concrete detectable warning paver as noted in the materials section. Paver shall be installed in accordance with manufactures instruction. The color and pattern of the detectable warning paver shall be as
shown on the plans or as approved by the university.

END OF SECTION 02580