TRAFFIC CONTROL (CONT'D)

COATING, URETHANE TOP COAT, SUPPORT SECTIONS

THIS ITEM SHALL CONSIST OF THE APPLICATION OF ONE (1) COAT OF URETHANE TO SUPPORT SECTIONS. THE TOTAL DRY FILM THICKNESS OF THIS COAT SHALL NOT BE LESS THAN ONE AND ONE-HALF (1.5) MILS.IF MORE THAN ONE PASS IS NECESSARY TO OBTAIN THE REQUIRED MIL THICKNESS THAT COST SHALL BE BORNE BY THE CONTRACTOR. THINNING OF THE URETHANE MATERIAL IS STRICTLY PROHIBITED. MATERIAL NOT CAPABLE OF BEING APPLIED AS SPECIFIED SHALL NOT BE USED. THE COLOR OF THIS COAT SHALL BE MEDIUM GRAY.

WHEN THE AVERAGE DRY FILM THICKNESS OF THIS COAT OVER THE ENTIRE SUPPORT SECTION IS LESS THAN THE SPECIFIED ONE AND ONE-HALF (1.5) MILS BUT IS AT LEAST ONE (1.0) MIL, THE CONTRACT PRICE FOR THIS ITEM SHALL BE REDUCED IN DIRECT PROPORTION TO THE PERCENT DEFICIENCY OF COATING UP TO 33 1/3%. IF THE DEFICIENCY OF COATING IS MORE THAN 33-1/3% (I.E., THE AVERAGE DRY FILM THICKNESS IS LESS THAN 1.0 MIL) THE WORK FOR THIS ITEM SHALL BE CONSIDERED UNSATISFACTORY AND SHALL BE RECOATED AT THE FULL EXPENSE OF THE CONTRACTOR, INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL.

THE URETHANE TOP COAT CHOSEN BY THE CONTRACTOR SHALL BE ONE OF THE FOLLOWING MATERIALS CONFORMING TO ITS LISTED PROPERTIES:

AMERCOAT 450 GL:
% SOLIDS BY VOLUME: 45% +/- 2%
POT LIFE: 20 HRS. @ 77 DEGREES F
DRYING TIME: 8 HRS. @ 77 DEGREES F DRY-THROUGH

GLID-THANE ONE POLYURETHANE COATINGS NO. 6100 SERIES:
% SOLIDS BY VOLUME: 38% +/- 2%
DRYING TIME: 8-12 HRS. @ 77 DEGREES F TO HANDLE
VISCOSITY: 100-250 CPS
% SOLIDS BY WEIGHT: 52-55%

HYTHANE
% SOLIDS BY VOLUME: 42% +/- 2%
POT LIFE: 16 HRS. @ 50 DEG. F.
12 HRS. @ 75 DEG. F.

MARK-73 (ULTRA-KOTE):
% SOLIDS BY VOLUME: 52.5% +/- 2%
POT LIFE: 8 HRS. @ 75 DEGREES F
DRYING TIME: 4-5 HRS. @ 75 DEGREES F TACK FREE
VISCOSITY: 70-75 KU @ 75 DEGREES F
% SOLIDS BY WEIGHT: 55% +/- 2%

HI-BILD ALIPHATIC POLYURETHANE ENAMEL
% SOLIDS BY VOLUME: 40% +/- 2% (CATALYZED)
% SOLIDS BY WEIGHT: 48% +/- 2% (CATALYZED)
POT LIFE: 6 HRS. @ 77 DEGREES F
DRYING TIME: 30 MIN. TO TOUCH, 4 HRS. TACK FREE,
18 HRS. MIN., 72 HRS. MAX TO RECOAT.

AT LEAST 24 HOURS BUT NO MORE THAN THREE (3) DAYS SHALL ELAPSE AFTER THE APPLICATION OF THE EPOXY INTERMEDIATE COAT AND BEFORE THE APPLICATION OF THE URETHANE TOP COAT. SURFACES SHALL IN ALL CASES BE CLEAN BEFORE THE TOP COAT IS APPLIED.

FOR NEW SUPPORT SECTIONS, THIS TOP COAT SHOULD BE DONE AT THE MANUFACTURER OF THE SUPPORT SECTIONS. VERIFICATION BY THE MANUFACTURER FOR THE TOP COAT PROCEDURE WILL BE REQUIRED. CAREFUL HANDLING AND STORAGE WILL BE REQUIRED TO PREVENT ANY SCRAPING, MARRING OR OTHER SURFACE DAMAGE TO THE TOP COAT.

THE PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, HANDLING COST, AND MATERIALS NECESSARY TO ACCOMPLISH THIS ITEM OF WORK. THIS TOP COAT SHALL BE MANUFACTURED BY THE SAME COMPANY SUPPLYING THE PRIME AND INTERMEDIATE COATS. A PROPERLY CALIBRATED, DRY FILM THICKNESS INSTRUMENT WILL BE USED TO CHECK THE COATING.

BASIS OF PAYMENT WILL BE AS FOLLOWS:

ITEM SPECIAL - COATING, URETHANE TOP COAT, SUPPORT SECTIONS AT CONTRACT BID PRICE PER EACH MAJOR SUPPORT SECTION.

PREQUALIFICATION

PRIOR TO USE, THE CONTRACTOR SHALL SUBMIT TO THE DIRECTOR COPIES OF THE MANUFACTURER'S CERTIFIED TEST DATA SHOWING THAT THE MATERIAL COMPLIES WITH THE REQUIREMENTS OF THIS SPECIFICATION. THE TEST DATA SHALL INCLUDE THE BRAND NAME OF THE PAINT, NAME OF MANUFACTURER, NUMBER OF THE LOT TESTED AND DATE OF MANUFACTURE. WHEN THE PAINT HAS BEEN APPROVED BY THE DIRECTOR, FURTHER PERFORMANCE TESTING BY THE MANUFACTURER WILL NOT BE REQUIRED UNLESS THE FORMULATION OR MANUFACTURING PROCESS HAS BEEN CHANGED, IN WHICH CASE NEW CERTIFIED TEST RESULTS WILL BE REQUIRED.

ACCEPTANCE

THE MANUFACTURER SHALL SUBMIT CERIFIED TEST DATA IN ACCORDANCE WITH REQUIREMENTS OF THIS SPECIFICATION.

THE STATE RESERVES THE RIGHT TO SAMPLE AND TEST DELIVERED LOTS FOR COMPLIANCE.

5/10/88

LOCATIONS

THE FOLLOWING SUMMARY OF MAJOR SUPPORT SECTIONS TO HAVE A PROTECTIVE COATING APPLIED IS NOTED BELOW:

SUPPORT NO.	CODE	NEW GALVANIZED SECTIONS	EXISTING GALVANIZED SECTIONS
302	I	1 VERT. POLE, 1 MAST ARM	
303	I	1 VERT. POLE, 1 CANT. ARM	
304	I	1 VERT. POLE, 1 CANT. ARM	
305	I	1 VERT. POLE, 1 CANT. ARM	
307	I	1 VERT. POLE, 1 CANT. ARM	
309	II		1 VERT. POLE, 1 CANT. ARM
311	II		2 END FRAMES
313	II		1 VERT. POLE, 1 CANT. ARM
316	I	2 END FRAMES	
317	II	2 END FRAMES	
319	II	1 VERT. POLE. 1 CANT. ARM	
320	II	1 VERT. POLE, 1 CANT. ARM	
321	II	2 END FRAMES	
322	II	2 END FRAMES	
325	II		2 END FRAMES
327	II		1 VERT. POLE, 1 CANT. ARM

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO PERFORM THIS WORK:

	I	II	
ITEM SPECIAL - SURFACE PREPARATION, EXISTING SUPPORT SECTIONS		10	EACH
ITEM SPECIAL - SURFACE PREPARATION, NEW SUPPORT SECTIONS	12	10	EACH
ITEM SPECIAL - COATING, EPOXY PRIME COAT, SUPPORT SECTIONS	12	20	EACH
ITEM SPECIAL - COATING, EPOXY INTERMEDIATE COAT, SUPPORT SECTIONS	12	20	EACH
ITEM SPECIAL - COATING, URETHANE TOP COAT, SUPPORT SECTIONS	12	20	EACH

ITEM 802 - BARRIER REFLECTORS, TYPE A OR B

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN ADDED TO THE GENERAL SUMMARY TO BE USED AS OUTLINED ABOVE.

	I	II	
ITEM 802 BARRIER REFLECTOR, TYPE A	133	147	EACH
ITEM 802 BARRIER REFLECTOR, TYPE B	39	37	EACH