

MICROFILMED
APR 8 1984

GENERAL NOTES

FHWA REGION	STATE	PROJECT	
5	OHIO		

63A
101

LAKE COUNTY
LAK-306-6.15

- A) BUTYL RUBBER MEMBRANE SHALL BE 3/32 INCH THICK. THE SHEET SIZE SHALL BE AS LARGE AS PRACTICABLE, AND SUBJECT TO THE APPROVAL OF THE ENGINEER. BUTT SPLICES (TYPE 2 FIGURE 2, AREA 29-2-14) SHALL BE USED.
- B) BONDING ADHESIVE SHALL BE APPLIED TO THE ENTIRE SURFACE TO BE WATERPROOFED.
- C) IMMEDIATELY PRIOR TO THE APPLICATION OF THE WATERPROOFING, ALL AREAS TO BE COVERED SHALL BE SANDBLASTED.
- D) SHOP DRAWINGS AND DATA ON THE MATERIAL AND ITS INSTALLATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- E) PAYMENT SHALL BE MADE AT THE UNIT PRICE BID PER SQUARE YARD FOR MEMBRANE WATERPROOFING, 3/32" BUTYL RUBBER. IT SHALL CONSIST OF THE BUTYL MEMBRANE, BONDING ADHESIVE, BUTYL GUM TAPE AND ALL LABOR AND EQUIPMENT NECESSARY TO COMPLETE THIS ITEM OF WORK.

GRATING

GRATING SHALL BE UNITED INTERLOCK GRATING, AS MANUFACTURED BY UNITED MCGILL CORPORATION, COLUMBUS, OHIO, OR APPROVED ALTERNATE.

GRATING SHALL BE PROVIDED IN AREAS DETAILED ON THE DRAWINGS AND SHALL BE FURNISHED IN INDIVIDUAL UNITS NO MORE THAN 9" WIDE OR LESS THAN 6" WIDE. GRATING SHALL BE A MINIMUM OF 20' LONG EXCEPT IN THOSE AREAS CALLING FOR A LESSER LENGTH. GRATING SHALL INTERLOCK WITH MALE-FEMALE LEGS PROVIDING A FRICTION-LOCK, SO THAT NO HORIZONTAL MOVEMENT BETWEEN UNITS CAN OCCUR. THE OUTSIDE LEG OF ALL AREAS SHALL BE A MALE LEG.

GRATING SHALL BE MANUFACTURED FROM ZINC-COATED CARBON STEEL SHEETS OF STRUCTURAL QUALITY AS SPECIFIED IN ASTM DESIGNATION A-446. THE COATING CLASS SHALL BE CLASS G-90.

THE SURFACE PATTERN SHALL PROVIDE AT LEAST 35% OPEN AREA AND NO MORE THAN 42% OPEN AREA. OPENINGS SHALL BE AT LEAST 4" LONG AND NO MORE THAN 3/4" WIDE AS MEASURED AT 90 DEGREES TO THE LONG DIMENSION.

THE MINIMUM THICKNESS OF MATERIAL SHALL BE 0.049". THE GRATING LEG HEIGHT SHALL BE 4". GRATING SHALL CARRY A UNIFORM LIVE LOAD OF 432 POUNDS PER SQUARE FOOT AND A CONCENTRATED LOAD OF 1160 POUNDS. THE SURFACE SHALL BE ANTI-SKID.

THE ANTI-SKID SURFACE SHALL PROVIDE 360° POSITIVE TRACTION AND BE MADE UP OF TAPERED, SELF-CLEANING TEETH, APPROXIMATELY 1/8" HIGH. THESE TEETH SHALL HAVE SLOTS APPROXIMATELY 1/16" WIDE X 3/8" LONG AND BE UNIFORMLY SPACED WITH NOT LESS THAN 60 OR MORE THAN 80 TEETH PER SQUARE FOOT.

PAINTING

1. GENERAL. ALL PAINTING SHALL BE IN ACCORDANCE WITH AREA SPECIFICATIONS, CHAPTER 15, SECTION 3.4, AND RECOMMENDATIONS OF THE STEEL STRUCTURES PAINTING COUNCIL SPECIFICATIONS WITH THE FOLLOWING SPECIFIC REQUIREMENTS. PRIMING THE CONTACT SURFACES WITH INORGANIC ZINC RICH PRIMER IS PERMITTED.
2. PAINTING REQUIREMENTS
 - A. PRIME AND TOP COAT - FABRICATOR SHALL BE GIVEN THE OPTION OF USING ONE OF THE FOLLOWING PAINT SYSTEMS: WASH COAT - WHERE APPLICABLE - AND TOP COAT TO BE APPLIED IN FIELD.

SYSTEM #1 - (PORTER COATING)

PRIME COAT - ONE COAT ZINC-LOCK 351 PRIMER APPLIED AT 2.5 MILS D.F.T.

WASH COAT - ONE COAT 1799 V.C. - 17 WASH PRIME APPLIED AT 0.5 MILS D.F.T.

FINISH (TOP) COAT - ONE COAT VC-37 HIGH BUILD VINYL BLACK (OR STATE APPROVED COLOR) APPLIED AT 5.0 MILS D.F.T.

PORTER COATINGS
1929 MOUNTAIN INDUSTRIAL BOULEVARD
P. O. BOX 247
TUCKER, GEORGIA 30084
TELEPHONE: (404) 938-1937

SYSTEM #2 - (TNEMEC COATING)

PRIME COAT - ONE COAT 90E-9212 TNEMEC-ZINC PRIMER APPLIED AT 2.5 MILS D.F.T.

WASH COAT - ONE COAT 32-1210 TNEMEC-GRIP APPLIED AT 0.3 - 0.5 MIL D.F.T.

FINISH (TOP) COAT - ONE FINISH COAT SERIES 53 BLACK HI-BUILD VINOLINE (OR STATE APPROVED COLOR) APPLIED AT 5.0 MILS D.F.T.

MR. CHARLES S. DITSLER
TNEMEC COMPANY, INC.
3225 STRATFORD ROAD
RICHMOND, VIRGINIA 23225

SYSTEM #3 - (AMERON COATING)

PRIME COAT - ONE COAT DIMETCOTE E-Z ZINC PRIMER APPLIED AT 2.5 MILS D.F.T.

WASH PRIMER - ONE COAT AMERCOAT 54 APPLIED AT 0.5 MILS D.F.T.

FINISH (TOP) COAT - ONE COAT AMERCOAT 99R BLACK (OR STATE APPROVED COLOR) APPLIED AT 5.0 MILS D.F.T.

MR. R. M. GARRETT
AMERON
HOPEWELL VALLEY INDUSTRIAL CENTER
REED ROAD
WEST TRENTON, NEW JERSEY 08628
TELEPHONE: (800) 828-1030

SYSTEM #4 - (MOBIL COATING)

PRIME COAT - TWO COATS MOBILZINC UNI-PAK 13-G-2 PRIMER APPLIED AT 1.2 MILS D.F.T. PER COAT. TOTAL D.F.T. TO BE 2.4 MILS.

FINISH (TOP) COAT - ONE COAT VAL-CHEM HI-BUILD VINYL 83 SERIES BLACK (OR STATE APPROVED COLOR) APPLIED AT 5.0 MILS D.F.T.

MR. LEN WALSH, JR.
MOBILE CHEMICAL COMPANY
P. O. BOX 425
SANDSTON, VIRGINIA 23150
TELEPHONE: (804) 737-5046

SYSTEM #5 - (CARBOLINE COATING)

PRIME COAT - ONE COAT CARBO-ZINC 12 PRIMER APPLIED AT 2.5 MILS D.F.T. (MIN.)

FINISH (TOP) COAT - ONE COAT POLYCLAD 936 APPLIED AT 5.0 MILS D.F.T.

CARBDINE COMPANY
C/O J. S. GRAY COMPANY
P. O. BOX 2994
RICHMOND, VIRGINIA 23235

SYSTEM #6 - (SUBOX COATING)

PRIME COAT - ONE COAT GALVANOX IV APPLIED AT 2.5 MILS D.F.T.

FINISH (TOP) COAT - ONE COAT VINOFLUX 2000 SERIES HI-BUILD VINYL APPLIED AT 5.0 MILS D.F.T.

BASF WYANDOTTE CORPORATION
BROAD & 14TH STREETS
CARLSTADT, NEW JERSEY 07072

- B. SURFACE PREPARATION - THE STEEL SHALL BE CLEANED TO A NEAR WHITE BLAST IN ACCORDANCE WITH SSPC-SP-10-63.

1. APPLICATION - PAINT SHALL BE APPLIED IN ACCORDANCE WITH SSPC SPECIFICATIONS FOR PAINT APPLICATION - PA1.
2. THE PRIME COAT SHALL BE APPLIED IN THE SHOP PROMPTLY AFTER BLAST CLEANING, BUT IN NO CASE SHALL THE PRIME COAT BE APPLIED MORE THAN EIGHT (8) HOURS AFTER BLAST CLEANING OR AFTER VISIBLE OR DETRIMENTAL RUSTING OCCURS.
3. STEEL SHALL BE CLEANED BY WASHING, FOXTAILING, OR OTHER MECHANICAL MEANS OF ALL RESIDUE (LOOSE ZINC DUST AND FOREIGN MATTER) PRIOR TO APPLYING TOP COAT (FINISH COAT).
4. PRIMED SURFACES DAMAGED DURING SHIPMENT SHALL BE REPAIRED USING SAME PRIME COAT MATERIAL AS APPLIED IN SHOP BEFORE TOP COAT IS APPLIED.

FRANKLIN CONSULTANTS INC.						3A / 28
Consulting Engineers						
COLUMBUS,			OHIO			
GENERAL NOTES						
BRIDGE NO. LAK - 306 - 0635						
S. R. 306 UNDER N. & W. RAILROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H/M	GKS	GKS	PCB	JF	4/13/80	

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