GENERAL NOTES - STRUCTURES

ITEM SPECIAL - SHOP PAINTING AND FIELD TOUCHUP OF STRUCTURAL STEEL

DESCRIPTION

This specification covers shop cleaning and shop application of a 3 coat paint system on Item 863 - structural steel and the field cleaning and repair of surfaces damaged in shipping, handling, and erecting the structural steel and any other damages during construction.

This specification shall also include the galvanizing as per 711.02 of all nuts, washers, bolts, anchor bolts, and all other structural members designated in the plans.

MATERIAL

A. A three coat paint system consisting of an

Organic Zinc Prime Coat
Epoxy Intermediate Coat
Urethane Finish Coat

and meeting the requirements of Supplemental Specification 910 entitled "OZEU Structural Steel Paint"

B. Inorganic Zinc Silicate primer paint, for the bolted faying surfaces, meeting the requirements of C & MS 708.17.

C. A tie coat. Consisting of an Epoxy Intermediate Coat, meeting the requirements of Supplemental Specification 910, "Epoxy Intermediate Coat" and thinned 50%, by volume, with a thineer as recommended by the paint manufacturer.

Approved paint, items A and C, shall be from one manufacturer, regardless of shop or field application.

Approved paint, Item B, may be from a different manufacturer than Items A and C. Item B paint used shall be from the same manufacturer for both shop application and field touch-up.

PRE-PAINT CONFERENCE

If designated on the plan a pre-paint conference shall be held separately from the preconstruction meeting. Attendees to this meeting shall include the General Contractor, Paint Contractor, Structural Steel erector, Fabricator, Quality Control Specialist, Engineer, Structural Steel Engineer, and others if required in the plan.

The meeting shall take place before the steel is fabricated or painted.

QUALITY CONTROL SPECIALISTS

This person will not be a Foreman or member of the Contractor's or Fabricator's production staff (ie. he will not abrasive blast, paint, recover spent abrasives, etc.).He will not be involved in any other miscellaneous task (ie. mixing paint, running errands, running or working on equipment, etc. Documentation that personnel performing quality control related functions are qualified shall be submitted to the Engineer prior to allowing the Quality Control Specialist (QCS) to begin work. Documentation/verification shall be provided to the Engineer that the QCS has received formal training from one of the following: KTA tator, S.G. Pinney, or Corrosion Control Consultants. He shall be equipped with material safety data sheets, tools and equipment to provide quality control on all facets of the work and shall have a thorough understanding of the plans and specifications pertaining to this project. He shall be responsible for inspecting the equipment at the specified intervals, the abrasives, and the work, at all quality control points. He shall also be responsible for verifying that all work is done within the specified work limitation. He shall cooperate with the Inspector and compare and document quality control readings. He shall have the authority to stop work and the responsibility to inform the Contractor's or Fabricator's Foreman of nonconforming work.

Quality control specialists will be required in the shop and in the field. Before fabrication the fabricator shall designate one individual for each shop as a Quality Control Specialist.

At the preconstruction or pre-paint meeting, the Contractor shall also designate one individual on each project as a Quality Control Specialist (only one person per project will be necessary unless the Contractor is working at more than three (3) sites simultaneously). It will then be necessary to provide an additional Quality Control Specialist and a set of testing equipment as described in the equipment section for each additional three sites being painted simultaneously.

Quality Control Points

Quality control points (QCP) are points in time when one phase of the work is complete and ready for inspection by the Contractor or Fabricator and the Structural Steel Engineer or the Engineer prior to continuing with the next operational step. At these points: The Contractor or Fabricator shall afford access to inspect all affected surfaces. If inspection indicates a deficiency, that phase of the work shall be corrected in accordance with these specifications prior to beginning the next phase of work. Discovery of defective work or material after a Quality Control Point is past or failure of the final product before final acceptance, shall not in any way prevent rejection or obligate the State of Ohio to final acceptance.

Quality Control Points (QCP)		(PURPOSE)
1.)	Washing	Remove water soluble oil, grease, salt, dirt, etc.
2.)	Solvent Cleaning	Remove asphaltic cement, oil, grease, salt, dirt, etc., not removed during washing
3.)	Grinding Edges	Grind edges required.
4.)	Abrasive Blasting	Blast surface to receive paint
5.)	Prime Coat Application	Check surface cleanyness, apply prime coat check coating thickness
6.)	Intermediate Coat Application	Check surface cleanliness, apply intermediate coat, check coating thickness
7.)	Finish Coat Application	Check surface cleaniness, apply finish coat, check coating thickness
8.)	Visual Inspection	Visually inspect paint before shipment of steel and check of total system thickness.
9.)	Repair of Damage Areas	Check for damage areas after completion of structure and repeat QCP 1 - 7 for damage areas.
10.)	Final Review	Wash structure as per QCP#1. Visually inspect system for acceptance and check total system thickness.

SURFACE PREPARATION

This item shall consist of washing, solvent cleaning, and abrasive cleaning of structural steel members.

DESIGN AGENCY O.D.O.T. DISTRICT TWELVE L&D DEPARTMENT

DESIGNED	DRAWN	REVIEWED	DATE
BGW	JMB	MJM	08/20/98
CHECKED	REVISED	STRUCTURE FILE NUMBER	
GWM		4305019	

SHOP PAINTING AND FIELD TOUCH-UP OF STRUCTURAL STEEL NOTES

LAKE COUNTY
LAK-90-26.87

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