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PART 1 - GENERAL

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|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------|----|------------------------------------------------------------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| 1.1 <u>Scope of Work</u>           | .1 The work under this section includes painting of ladder holdfasts, mooring cleats, U-bolts and concrete where indicated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                                                                                                      |    |                                                                                     |    |                                                                            |    |                                                                        |    |                                                              |    |                                            |
| 1.2 <u>Reference Standards</u>     | <table border="0"><tr><td style="vertical-align: top; padding-right: 20px;">.1</td><td>CGSB 1-GP-48M-78 (or Latest edition), Primer, Marine, for Steel.</td></tr><tr><td style="vertical-align: top; padding-right: 20px;">.2</td><td>CAN/CGSB-1.198-95 (or Latest edition), Cementitious Primer for Galvanized Surfaces.</td></tr><tr><td style="vertical-align: top; padding-right: 20px;">.3</td><td>CGSB 1-GP-59M-78 (or Latest edition), Enamel, Exterior, Gloss, Alkyd Type.</td></tr><tr><td style="vertical-align: top; padding-right: 20px;">.4</td><td>CAN/CGSB-1.138-93 (or Latest edition), Exterior Latex Type, Flat Paint</td></tr><tr><td style="vertical-align: top; padding-right: 20px;">.5</td><td>SSPC-SP-2, Hand Tool Clean (Society for Protective Coatings)</td></tr><tr><td style="vertical-align: top; padding-right: 20px;">.6</td><td>Paint Manufacturer's technical literature.</td></tr></table> | .1 | CGSB 1-GP-48M-78 (or Latest edition), Primer, Marine, for Steel.                                     | .2 | CAN/CGSB-1.198-95 (or Latest edition), Cementitious Primer for Galvanized Surfaces. | .3 | CGSB 1-GP-59M-78 (or Latest edition), Enamel, Exterior, Gloss, Alkyd Type. | .4 | CAN/CGSB-1.138-93 (or Latest edition), Exterior Latex Type, Flat Paint | .5 | SSPC-SP-2, Hand Tool Clean (Society for Protective Coatings) | .6 | Paint Manufacturer's technical literature. |
| .1                                 | CGSB 1-GP-48M-78 (or Latest edition), Primer, Marine, for Steel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                                                                                      |    |                                                                                     |    |                                                                            |    |                                                                        |    |                                                              |    |                                            |
| .2                                 | CAN/CGSB-1.198-95 (or Latest edition), Cementitious Primer for Galvanized Surfaces.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                                                                                                      |    |                                                                                     |    |                                                                            |    |                                                                        |    |                                                              |    |                                            |
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| .4                                 | CAN/CGSB-1.138-93 (or Latest edition), Exterior Latex Type, Flat Paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                                                                                                      |    |                                                                                     |    |                                                                            |    |                                                                        |    |                                                              |    |                                            |
| .5                                 | SSPC-SP-2, Hand Tool Clean (Society for Protective Coatings)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                                                                                                      |    |                                                                                     |    |                                                                            |    |                                                                        |    |                                                              |    |                                            |
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| 1.3 <u>Related Work</u>            | <table border="0"><tr><td style="vertical-align: top; padding-right: 20px;">.1</td><td>Refer to other Specification Sections for related information.</td></tr><tr><td style="vertical-align: top; padding-right: 20px;">.2</td><td>Refer to Section 01 33 00 for Shop Drawing/Submissions requirements.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | .1 | Refer to other Specification Sections for related information.                                       | .2 | Refer to Section 01 33 00 for Shop Drawing/Submissions requirements.                |    |                                                                            |    |                                                                        |    |                                                              |    |                                            |
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| 1.4 <u>Submissions</u>             | <table border="0"><tr><td style="vertical-align: top; padding-right: 20px;">.1</td><td>Product Data: Provide manufacturers product data and full application instructions for each product.</td></tr><tr><td style="vertical-align: top; padding-right: 20px;">.2</td><td>Methodology: Submit methodology for carrying out the work.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | .1 | Product Data: Provide manufacturers product data and full application instructions for each product. | .2 | Methodology: Submit methodology for carrying out the work.                          |    |                                                                            |    |                                                                        |    |                                                              |    |                                            |
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| 1.5 <u>Measurement for Payment</u> | <table border="0"><tr><td style="vertical-align: top; padding-right: 20px;">.1</td><td>Painting will be measured in accordance with Section 01 29 00.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .1 | Painting will be measured in accordance with Section 01 29 00.                                       |    |                                                                                     |    |                                                                            |    |                                                                        |    |                                                              |    |                                            |
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PART 2 - PRODUCTS

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| 2.1 <u>Materials</u> | .1 Paint: |
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- .1 Primer for the cleats, ladder holdfasts and U-bolts: to manufacturers specifications and CGSB 1-GP-48M where applicable. Primer for galvanized items: CAN/CGSB-1.198
  - .2 Oil base paint: to CGSB 1-GP-59M marine paint. Cleats and holdfasts and U-bolts to receive one coat of fluorescent orange marine paint.
  - .3 Acrylic Latex base paint: to CGSB-1-GP-138M paint. Reinforced concrete guards and light bases to receive two coats of caution yellow paint.

PART 3 - EXECUTION

3.1 Preparation of  
Surfaces

- .1 Preparation of surfaces:
  - .1 Clean surfaces to be painted by removing curing compounds, rust, loose mill scale, welding slag, dirt, oil, grease and other foreign substances in accordance with the paint manufacturer's instructions. Hard tool cleaning per SSPC-SP-2. Sandblast surfaces as required.
  - .2 Do not apply paint until prepared surfaces have been accepted by *Departmental Representative*.

3.2 Protection of  
Surfaces

- .1 Protect surfaces not to be painted and if damaged, clean and restore such surfaces as directed.
  - .2 Apply primer, paint, or pretreatment as soon as possible after surface has been cleaned and before deterioration of surface occurs.
  - .3 If rusting occurs after completion of surface preparation, clean surfaces again.
  - .4 Prevent contamination of cleaned surfaces by salts, acids, alkalis, other corrosive chemicals, grease, oil and solvents before prime coat is applied and between
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- applications of remaining coats of paint. Remove contaminants from surface and apply paint immediately.
- .5 Protect cleaned and freshly painted surfaces from excessive dust produced by traffic.
- 3.3 Mixing Paint
- .1 Do not dilute or thin paint for brush application, use as received from manufacturer.
- .2 Mix ingredients in container before use and ensure breaking up of lumps, complete dispersion of settled pigment, and a uniform composition.
- .3 Mix paint often enough during application to keep pigment in suspension and composition uniform.
- .4 Do not mix or keep paint in suspension by means of air bubbling through paint.
- 3.4 Applying Paint
- .1 Apply paint by brushing, spraying or a combination of both. Use sheepskins or daubers only when no other method is practical in places of difficult access.
- .2 Use dipping coating method of application only when specifically authorized by *Departmental Representative* in writing.
- .3 Where surface to be painted is not under cover, do not apply when:
- .1 Air temperature is below 5NC or when temperature is expected to drop to 0NC before paint has dried.
- .2 Temperature of surface is over 50NC unless paint is specifically formulated for application at high temperatures.
- .3 Fog or mist occur at site; it is raining or snowing; there is a danger of rain or snow; relative humidity is above 85%.
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- .4 Surface to be painted is wet, damp or frosted.
  - .5 Previous coats are not dry.
  - .4 When paint must be applied in damp or cold weather, apply paint under cover. Protect, shelter, or heat surface and surrounding air to comply with temperature and humidity conditions specified. Protect until paint is dry or until weather conditions permit.
  - .5 Permit drying of applied paint which has been exposed to freezing, excess humidity, rain, snow or condensation. Remove paint from damaged areas, prepare surface again and repaint same as undamaged areas.
  - .6 Apply each coat of paint as a continuous film or uniform thickness. Repaint thin spots or bare areas before next coat of paint is applied.
  - .7 Brush application:
    - .1 Work paint into cracks, crevices and corners and paint surfaces not accessible to brushes by spray, daubers or sheepskins.
    - .2 Brush out runs and sags.
    - .3 Leave a minimum of brush marks in finished paint surfaces.
    - .4 Remove runs and sags from finished work and repaint.
  - .8 Spray application:
    - .1 Provide and maintain equipment that is suitable for intended purpose, capable of properly atomizing paint to be applied, and equipped with suitable pressure regulators and gauges.
    - .2 Provide traps or separators to remove oil and water from compressed air and drain periodically during operations.
    - .3 Keep paint ingredients properly mixed in spray pots or containers during paint application either by continuous
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- mechanical agitation or by intermittent agitation as frequently as necessary.
- .4 Apply paint in a uniform layer, with overlapping at edges of spray pattern.
  - .5 Brush out immediately all runs and sags.
  - .6 When repainting existing structures, primer coats may be sprayed on steel providing spraying is followed immediately by brushing.
  - .7 Use brushes to work paint into cracks, crevices and places which are not adequately painted by spray. In areas not accessible to spray gun, use brushes, daubers or sheepskins.
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