

## SECTION 05 50 00

### METAL FABRICATIONS

#### PART 1 GENERAL

##### 1.01 APPLICATOR QUALIFICATION/CERTIFICATION

- A. All welders to be employed in the work shall have AWS qualification verified within the previous 12 months.

##### 1.02 SPECIAL PERMITTING REQUIREMENTS

- A. Hotwork requirements are identified in the General Conditions of the Contract for Construction.

#### PART 2 PRODUCTS

##### 2.01 MATERIALS

- A. Specify all materials used in metal fabrications including:
  - 1. Materials.
  - 2. Gauges.
  - 3. Finish (where appropriate).
  - 4. ASTM standards.
  - 5. "Pot metal" (cast zinc) is prohibited.
- B. Trench covers: 3/16" (minimum) diamond plate steel.
- C. Stage dressing supports and other overhead open grids: 1" Unistrut.
- D. Grout:
  - 1. Non-shrink, non-metallic.
- E. Primers and protective coatings:
  - 1. Shop-applied.
  - 2. Do not apply primers to or galvanize areas to be welded.

##### 2.02 RAILING FABRICATION

- A. All railings shall terminate with a closure. Provide 90 degree bend and return to walls at all railing ends unless otherwise indicated.
- B. Fabricate inside stair railings to return and connect to adjacent rails at landings.
- C. Railings parallel to walls shall have a 1-1/2" minimum clear dimension between railings and walls.
- D. Provide weep holes at the low point(s) of closed railing systems.
- E. Exterior handrail vertical posts shall be installed **using core drill and grout process.**

#### PART 3 PART 3 – EXECUTION

##### 3.01 GENERAL

- A. Remove burrs and rough edges. Hem or tool exposed edges to prevent injury.
- B. Conceal screws and bolts to the greatest extent possible.
- C. Bollard installation:
  - 1. Minimum embedment depth 3'-0" in concrete with 6" of concrete below embedment depth (regardless of embedment depth).
  - 2. Foundation diameter shall be 8" greater than the diameter of bollard to be installed.

**END OF SECTION 05 50 00**