

SECTION 05400 - COLD FORMED METAL FRAMING

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Non-load bearing formed steel stud interior wall framing including soffits, etc. as shown on the drawings.

1.02 RELATED WORK

- A. Section 07213 - Batt and Blanket Insulation: Insulation within framing members.
- B. Section 09260 - Gypsum Board Systems.

1.03 REFERENCES

- A. ASTM A90 - Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles.
- B. ASTM A446 - Steel Sheet, Zinc-Coated (Galvanized) by Hot Dip Process, Physical (Structural) Quality.
- C. ASTM A570 - Hot-Rolled Carbon Steel Sheet and Strip. Structural Quality.
- D. ASTM A611 - Steel, Cold-Rolled Sheet, Carbon, Structural.
- E. AWCI (Association of Wall and Ceiling Industries) - Specifications Guide for Cold Formed Steel Structural Members.
- F. AWS D1.1 - Structural Welding Code.
- G. FS TT-P-645 - Primer, Paint, Zinc-Chromate, Alkyd Type.

1.04 SYSTEM DESCRIPTION

- A. Design system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.

1.05 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in structural framing components with three years minimum experience.

1.06 SUBMITTALS

- A. Submit product data under provisions of Section 01300.
- B. Provide product data on standard framing members. Describe materials and finish, product criteria and limitations.
- C. Submit manufacturer's installation instructions under provisions of Section 01300.

PART 2 PRODUCTS

2.01 FRAMING MATERIALS

- A. Studs: ASTM A446 sheet steel.
- B. Track: Formed steel; channel shaped; same width as studs, tight fit.

2.02 ACCESSORIES

- A. Bracing, Furring, Bridging: Formed sheet steel, thickness determined for conditions encountered, manufacturer's standard shapes, same finish as framing members.
- B. Plates, Gussets, Clips: Formed sheet steel, thickness determined for conditions encountered, manufacturer's standard shapes, same finish as framing members.

2.03 FASTENERS

- A. Self-drilling, Self-tapping Screws, Bolts, Nuts and Washers: ASTM A90, hot dip galvanized.
- B. Anchorage Devices: Power driven.
- C. Welding: In conformance with AWS D1.1.

2.04 FABRICATION

- A. Fabricate assemblies of framed sections of sizes and profiles required; with framing members fitted, reinforced, and braced to suit design requirements.

- B. Fit and assemble in largest practical sections for delivery to site, ready for installation.

2.05 FINISHES

- A. Galvanizing: G90 coating class.
- B. Primer: FS TT-P-645, touch-up for galvanized surfaces.

PART 3 EXECUTION

3.01 INSPECTION

- A. Verify that substrate surfaces and building framing components are ready to receive work.
- B. Beginning of installation means acceptance of existing conditions.

3.02 ERECTION OF STUDDING

- A. Install components in accordance with manufacturer's instructions.
- B. Align floor and ceiling tracks; locate to partition layout. Secure in place with fasteners or welding at maximum 24 inches o.c.
- C. Place studs at 16 inches o.c.; not more than 2 inches from abutting walls and at each side of openings. Connect studs to tracks using fastener method.
- D. Construct corners using minimum three studs. Double stud at wall opening, door, and window jambs.
- E. Erect load bearing studs one piece full length. Splicing of studs is not permitted.
- F. Erect load bearing studs, brace, and reinforce to develop full strength to meet design requirements.
- G. Extend stud framing through ceiling to underside of floor or roof structure above.
- H. Coordinate placement of insulation in multiple stud spaces made inaccessible after erection.

- I. Install intermediate studs above and below openings to match wall stud spacing.
- J. Provide deflection allowance in stud track, directly below horizontal building framing for non-load bearing framing.
- K. Attach cross studs to studs for attachment of fixtures anchored to walls.
- L. Install framing between studs for attachment of mechanical and electrical items, and to prevent stud rotation.
- M. Touch-up field welds and damaged galvanized surfaces with primer.
- N. Complete framing ready to receive gypsum wall board.

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PROPOSED FIREHOUSE PROJECTS
TAPPAN DISTRICT
TAPPAN, NY

COLD FORMED METAL FRAMING
DIVISION 5- METALS
SECTION 05400