PART 0 A/E INSTRUCTIONS

0.01 GENERAL DESIGN REQUIREMENTS

A. Architect shall coordinate with the local codes to determine where and what type of rated walls may be required and provide UL rating number and corresponding detail on the drawings.

B. Architect shall coordinate with the MEP to allow proper suspension of ceiling, i.e. avoid a five foot duct in a five foot wide corridor.

C. Architect shall coordinate where shaft wall construction is required and/or appropriate with compliance to local codes.

D. Corner framing to have double studs for mounting of corner guards.

E. Architect shall coordinate locations of fire treated blocking; metal strip blocking is prohibited.

F. Door frame jambs shall be double studs full height to structure above, double stud head detail with the head installed at least 1/4" to 1/2" into the top of the door frame.

G. Provide double studs at all control and expansion joints to structure above. Locate and identify all control joints and expansion joints on plans

H. Frame openings other than door openings in the same manner as required for door openings and install framing below sills of openings to match framing required above the door.

I. Architect shall coordinate door openings with overhead ductwork penetrating stud wall above ceiling to prevent interruption of the jamb double studs.

J. Provide framing to conceal all pipes, ducts and conduits not indicated as exposed.

K. Architect shall specify gauges by unsupported length as required by applicable codes and manufacturer.

L. Architect shall coordinate special sound insulation requirements and locations with the DPS Project Manager.

M. Architect shall detail walls with piping and or ducts to ensure proper clearances and sound attenuation are maintained.

N. Classrooms perimeters shall have full height partitions to structure.

O. Architect shall coordinate all sound, fire and attachment issues for occupied buildings, particularly details where walls meet structural members and the deck.

P. Exterior soffits shall have cross bracing designed for uplift. Coordinate expected deflection of system with structural engineer and specify tolerances.

Q. Architect shall coordinate with the structural engineer all requirements for structural studs.

R. Provide details of deflection track conditions at all locations where partitions terminate at structure or deck subject to movement. Detail fire wall deflection construction and list U.L number for assembly.

S. Coordinate wall thickness with all components to be contained within walls including piping, structure, electrical panels and recessed equipment.

T. Coordinate w/ Structural Engineer to identify where cross bracing or other stabilizing construction is required.

PART 1 GENERAL

1.01 SUBMITTALS

A. Shop Drawings, UL and typical bracing details from the manufacturer.

B. Product Data to include unsupported lengths and gauges.

PART 2 PRODUCTS

2.01 MATERIALS

A. Ceiling Suspension Main Runners: 1.5" steel channels, .0.475 lb. Per foot, cold rolled

B. Hanger Wire: ASTM A641, Class 1 zinc coating, soft tempered, 8 gauge.

C. Furring Members: ASTM C645 25 gauge (0.0179"), hat-shaped, 7/8" deep.

D. Steel Studs: ASTM C645, 25 gauge (0.0179") x 3 5/8" deep, except as otherwise indicated on the drawings.

1. At door jambs and for tile backing, use 20 gauge (0.0329")
2. Runners: match studs, type recommended by stud manufacturer for floor and ceiling support of studs and for vertical abutment.

E. Deflection Track: Manufacturer's standard top runner designed to prevent cracking of gypsum board and plaster applied to interior partitions resulting from deflection of the structure above. Flanges have either V-shaped offsets that compress when pressure is applied from construction above or have slots 1 inch o.c. that allow fasteners attached to studs through the slots to accommodate structural movement by slipping.

F. Bracing shall be the same gauge as studs.

G. Screws shall be corrosion ressistant and self tapping.

H. Shaft Wall framing members shall be minimum 25 ga. galvanized. Shape, assembly and gauges shall conform with the UL assembly where shafts are required to have a fire-rated construction.

PART 3 EXECUTION

3.01 INSTALLATION

A. Refer to Division 1 requirements where metal stud erection will occur in occupied buildings.

B. Install Supplementary framing, fire treated blocking, and bracing to support fixtures, hardware, equipment, heavy trim, grab bars, toilet accessories, furnishings, or similar construction. Only brace to structural elements (joist, beams, etc,)

C. Installation tolerances:

1. Install each steel framing and furring member so that fastening surfaces do not vary more than 1/8 inch from plumb and from the plane formed by the faces of adjacent framing.
2. Install steel framing components for suspended ceilings so that cross-furring members are level to within 1/8 inch in 12 feet as measured both lengthwise on each member and transversely between parallel members.
3. Maximum out-of-plumb or line of framing permissible is 1/8” in 12’ and ¼” overall.
4. Maximum out-of-square or designated line permissible is 1/8” in first 15’ from corner and maximum ¼” overall.

D. Install steel studs 16 inches o.c. unless otherwise indicated.

E. Stud splicing is prohibited.

F. Do not connect or support steel framing from ducts, pipes, conduit or metal deck.

G. Door jambs shall be 20 gauge, doubled, and attached to one another and run full height to structure.

H. Do not bridge structure.

I. Coordinate with spray on fire insulation to avoid damage and major repairs.

J. Install fire safing materials in all deflection tracks in fire rated partitions.

END OF SECTION 09110