

Inplant Offices, Inc.

INSTALLATION INSTRUCTIONS

	Page No.
General Instructions	2
Standard Symbols	3
Floor Track	4-6
Corner Posts	6-7
Wiring Post and Wall Panels	8-9
Doors	10-11
Windows	12
Electrical	12
Roof Deck	13
Beams	14-16
Ceiling	17-19
Two and Three Wall Units	19

INPLANT OFFICES, INC.
INSTALLATION INSTRUCTIONS

WE RECOMMEND YOU READ INSTRUCTIONS THOROUGHLY PRIOR TO ASSEMBLY.

Your Inplant system is manufactured from high quality materials with care taken in handling and packaging at the factory. Please inspect your materials and count them to make sure that damage or loss has not occurred in transit.

Care must be exercised in handling these materials. Framing parts are all made from aluminum which has been satin anodized. This material, while strong and durable, will scratch, bend and mar. Normal care in erection will result in a finished product of which we both will be proud.

****We suggest the following tools to erect your Inplant System****

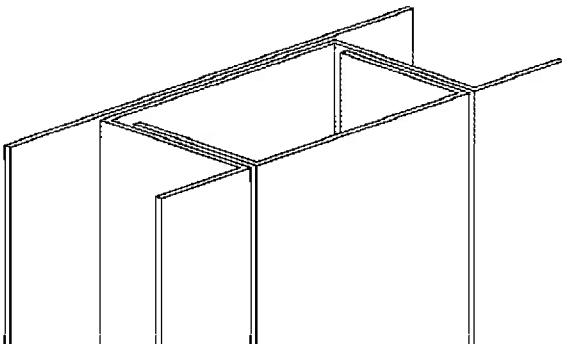
Hammer
Rubber Mallet & Wood Block
Drill and Bits and 5/16" Nut Driver
Level
Plumb Bob
Chalk Line and Dry Line
Tape Measure or Rule
Phillips Screwdriver
Carpenter's Square
Regular Screwdriver

Metal Snips
Power or Hand Saw
Hack Saw
Pencil
Putty Knife or Trowel
Ladder
Pop Riveter
Power Metal Saw

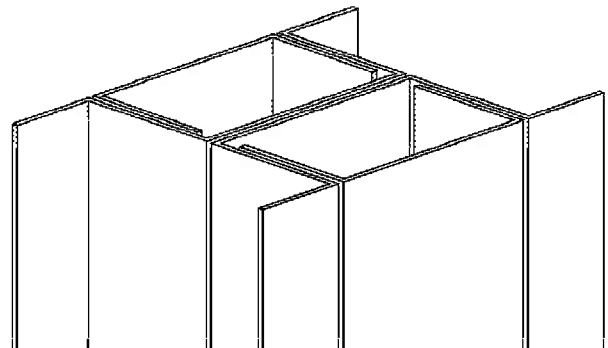
Because of the variety of floor surfaces, we do not supply fasteners for the floor track.

THIS IS YOUR SYSTEM.

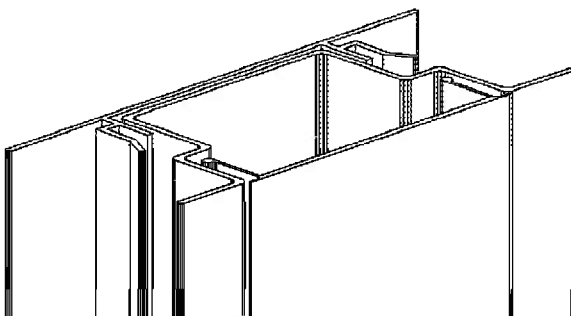
INPLANT 1-3/4" SP



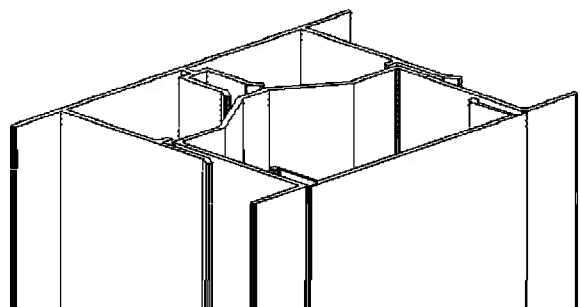
INPLANT 3" SP



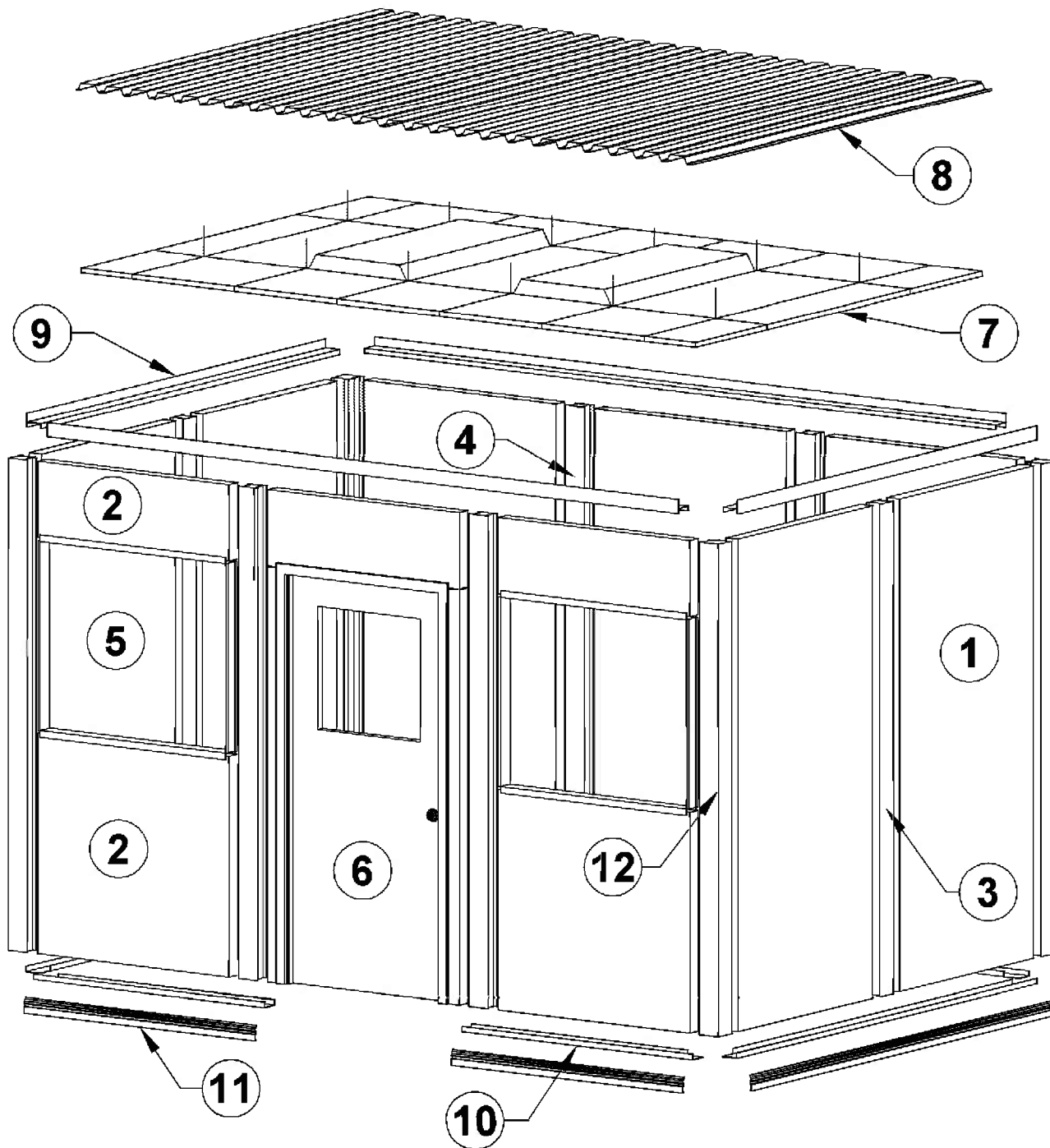
INPLANT 1-3/4"



INPLANT 3"



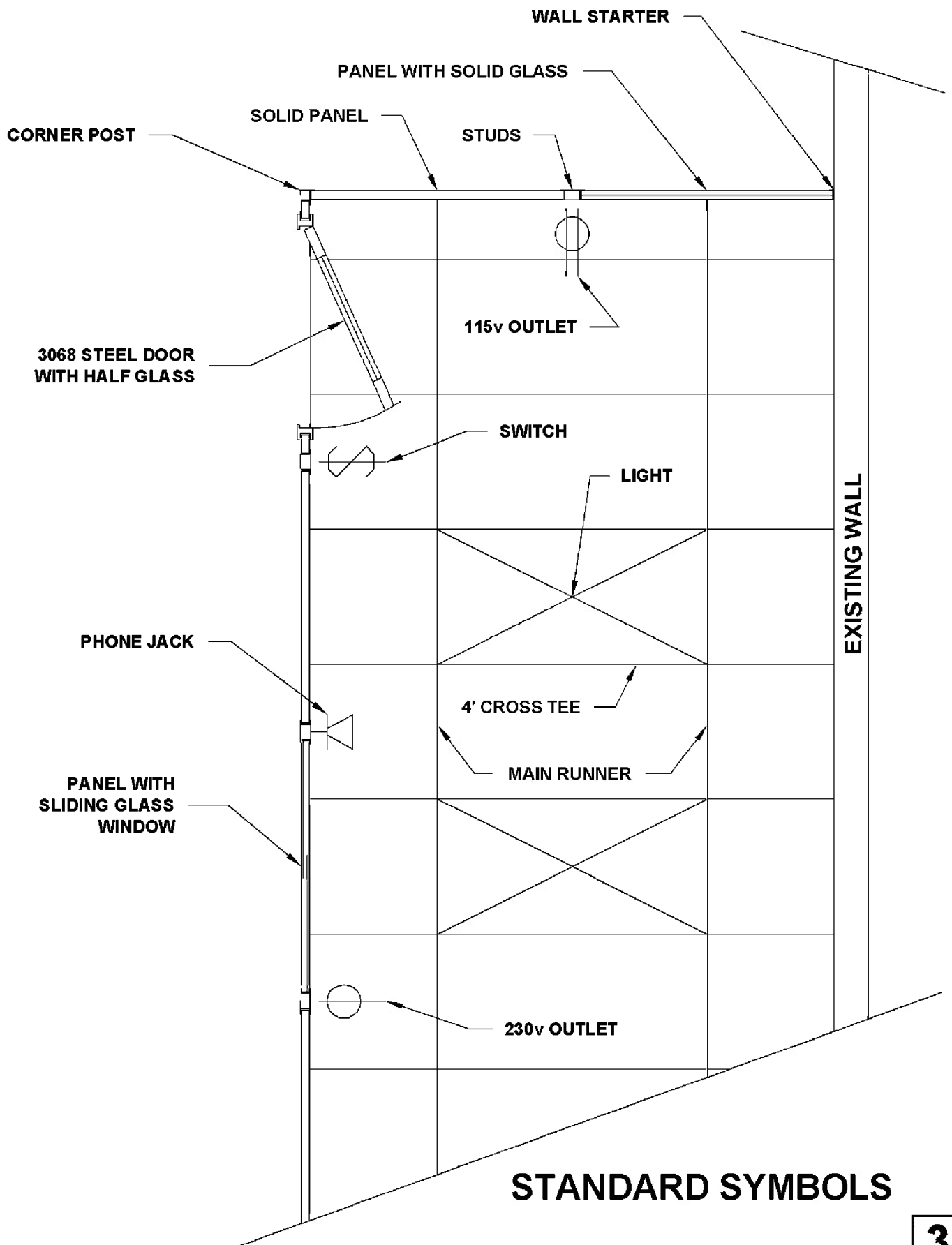
Inplant Offices, Inc. systems are manufactured from the highest quality materials, for ease of installation and years of maintenance free use.



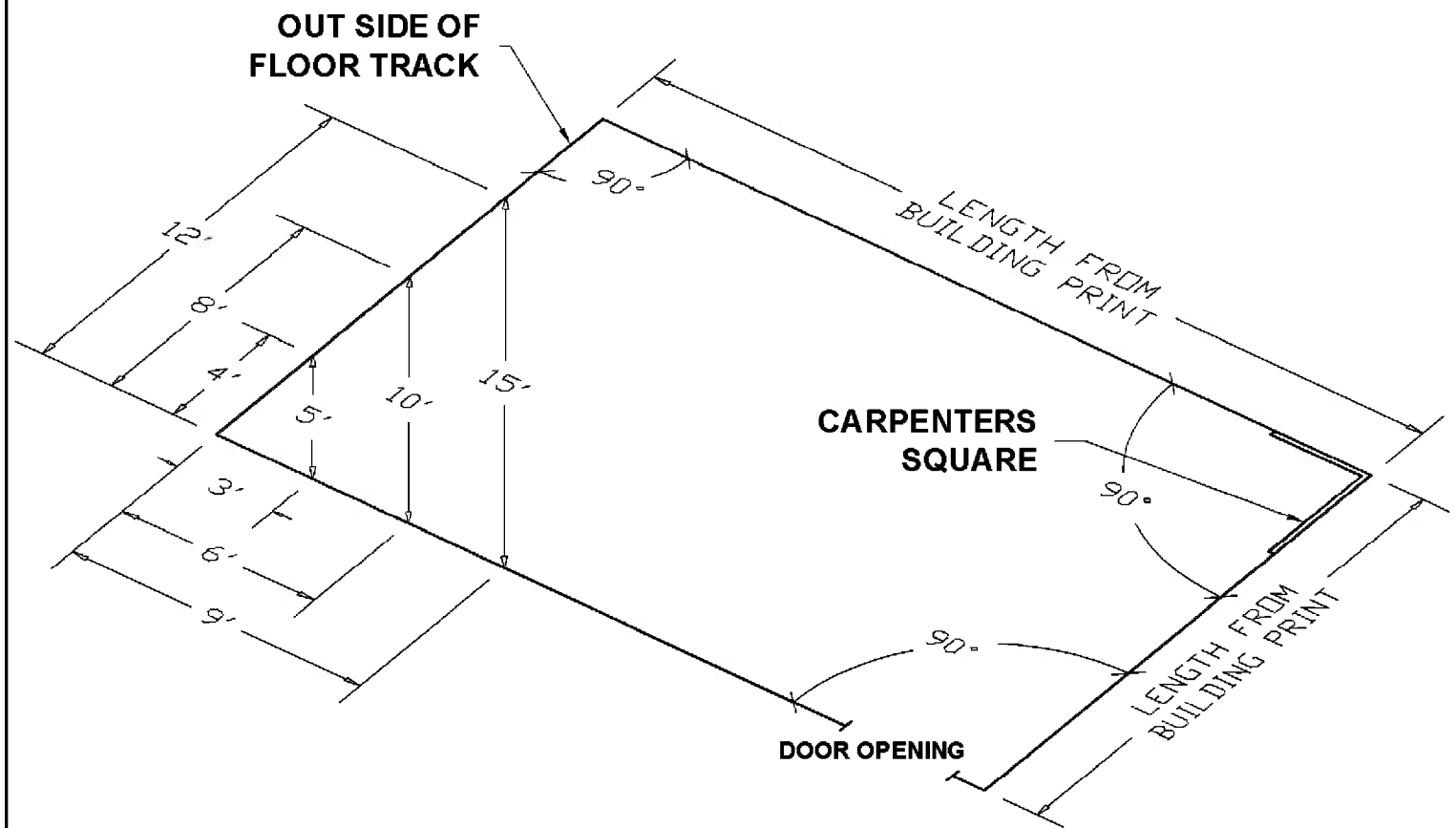
- 1. Solid Panel
- 2. Upper and Lower Window panel
- 3. Wiring Posts
- 4. Wiring Post Cover Plate
- 5. Fixed Window
- 6. Steel Door

- 7. Acoustical Ceiling
- 8. Roof Deck
- 9. Ceiling Cap
- 10. Floor Track
- 11. Vinyl Base
- 12. Corner Post

INSTALLATION INSTRUCTIONS



INSTALLATION INSTRUCTIONS



1. Locate your first wall and strike a chalk line on the floor. This line is the outside edge of your floor track
2. Locate on this chalk line the location of your cross wall. Through this point, construct a 90 ° corner using the 3-4-5 triangular method as indicated on the sketch. Strike a chalk line through these points to mark the outside of the cross wall. All corners must be at 90°.
3. Complete the building outline in like manner using the building dimensions given on the print.
4. Now locate the door opening and mark the floor accordingly.

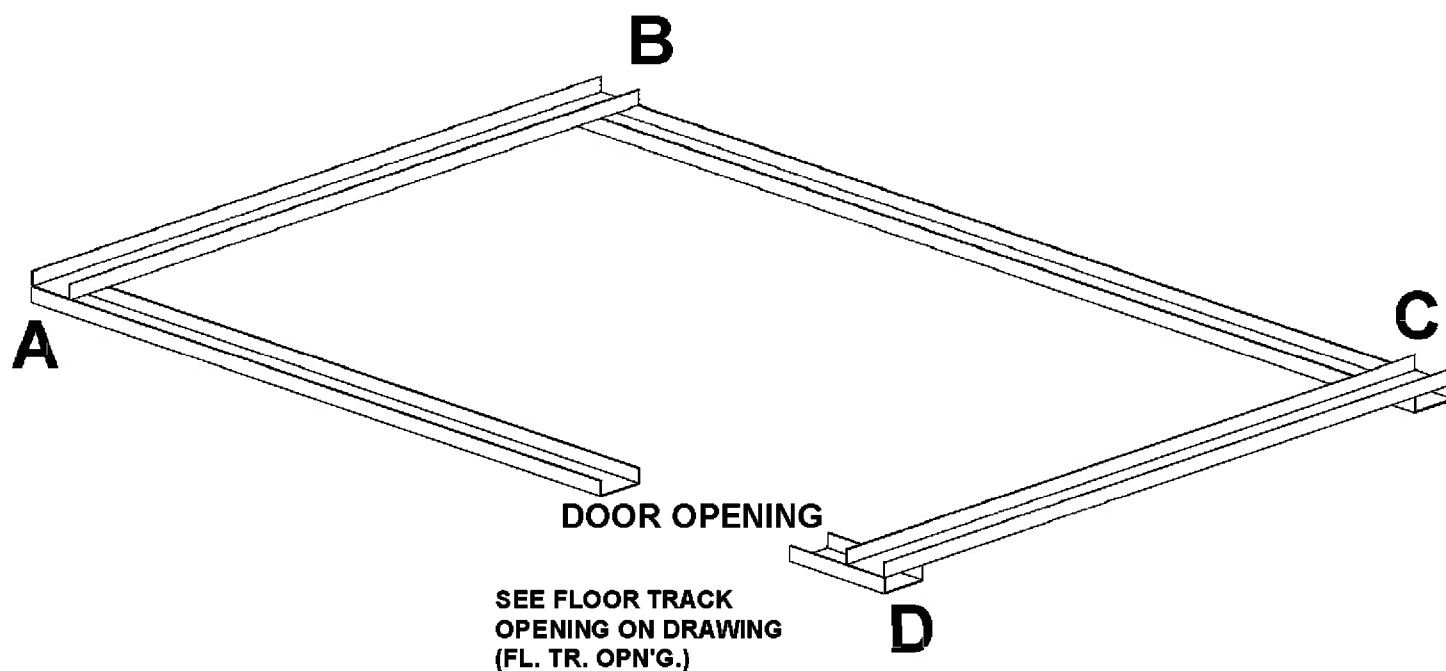
FLOOR TRACK INSTALLATION

1. Cut the floor track to length to fit between chalk lines from one adjacent corner to the other. You will note that the corners will overlap.
2. Don't forget to terminate the floor track at both sides of the door opening(s).

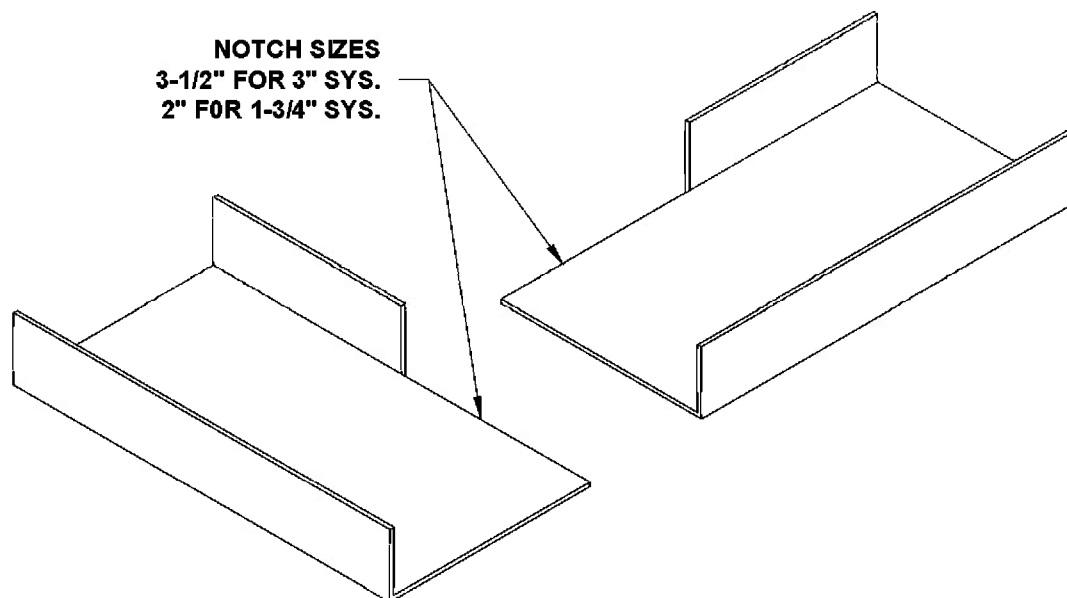
Because of the variety of floor surfaces, we do not supply fasteners for the floor track

INSTALLATION INSTRUCTIONS

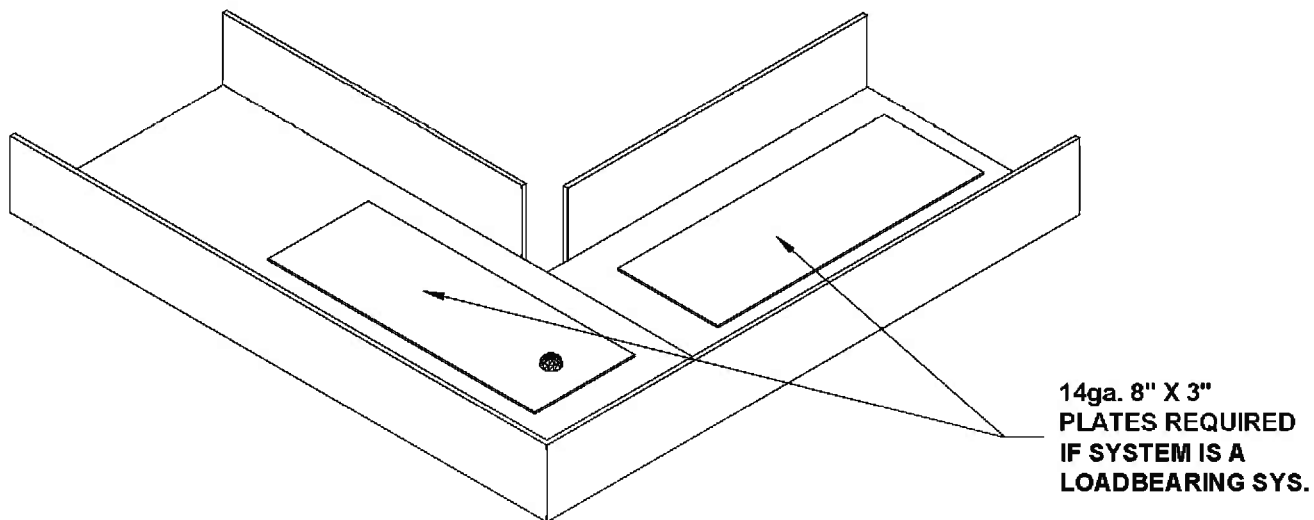
You now have a floor plan as illustrated:



3. Now at corner locations A,B,C, and D, cut and notch the floor track.



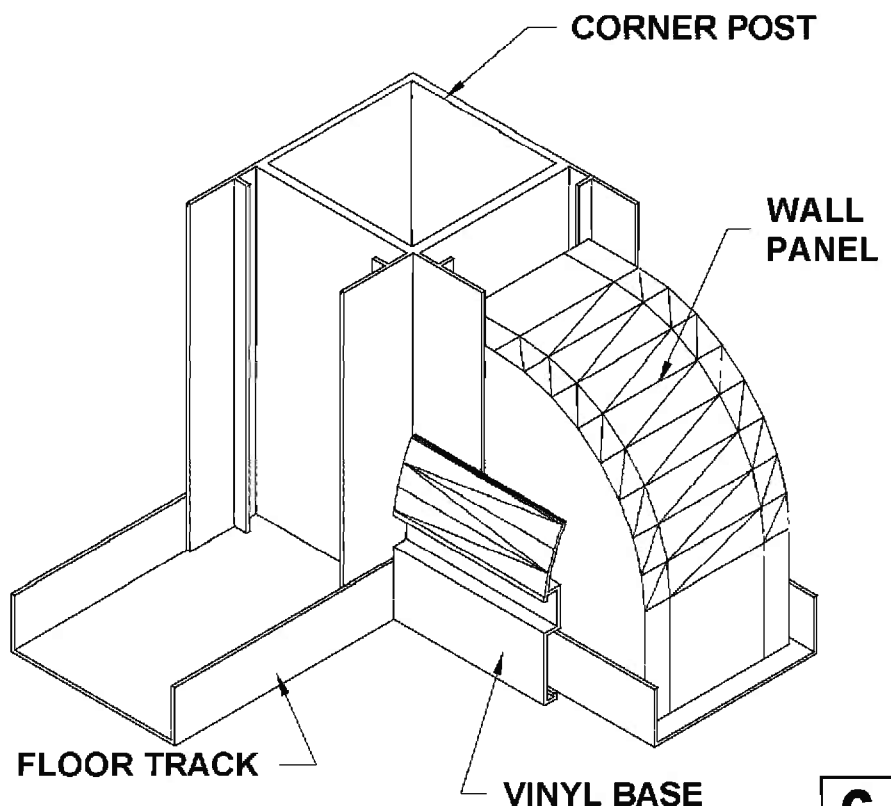
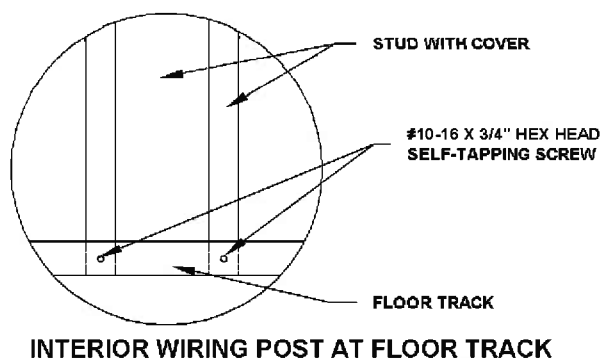
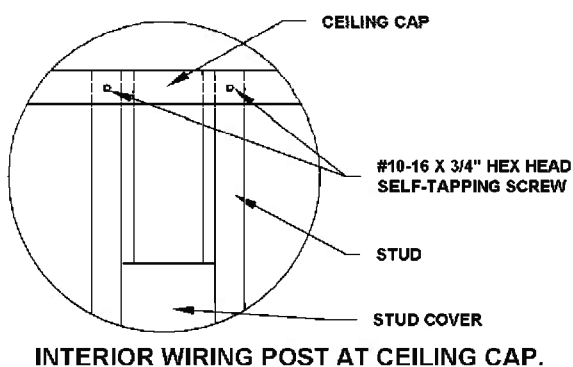
INSTALLATION INSTRUCTIONS



4. Anchor floor track using fasteners(not furnished) appropriate for field conditions and floor compositions. One fastener should be placed in each corner through the lap joint. Other fasteners should be spaced nominally 3' on center around perimeter, plus two on each side of door openings and at both sides of joints.

WALL ERECTION

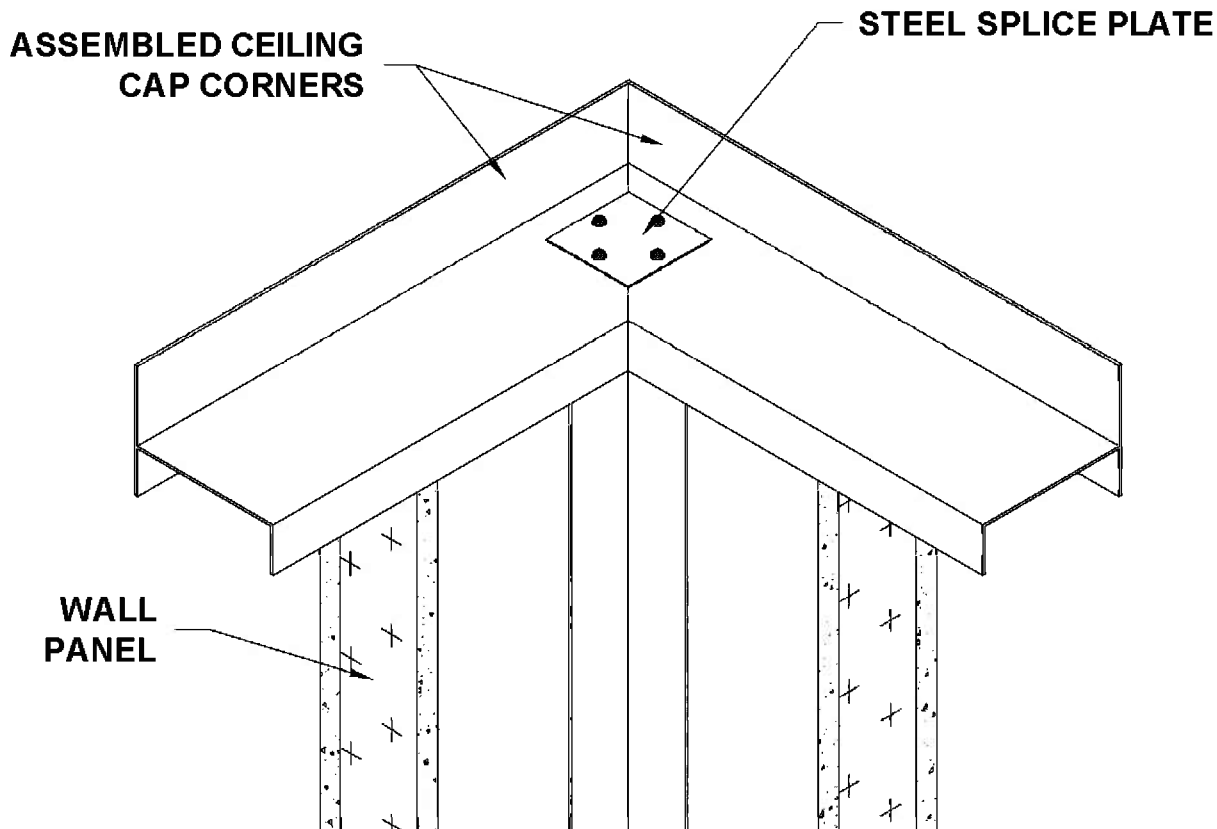
The wall panels are fabricated ready to install into the wiring post. All wiring posts and the corner posts on Inplant 3" systems should be fastened loosely together with the screws spaced 24" on center. Be sure the two pieces of the wiring posts and corner posts are flush on the bottom before starting screws. Corner post on all systems must fit inside floor track.



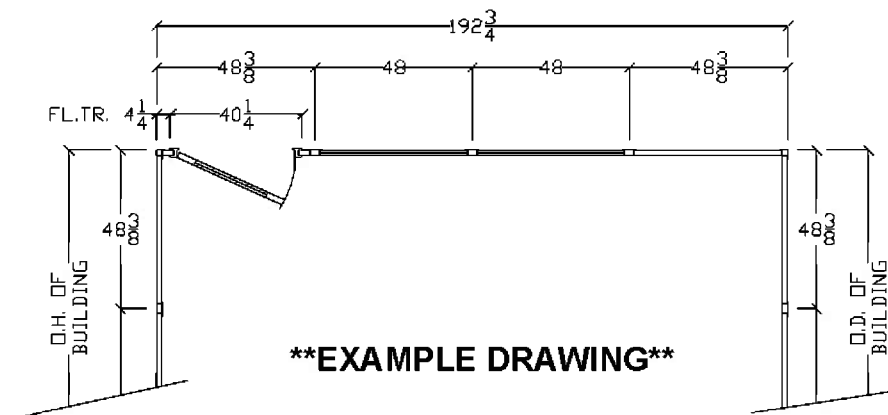
INSTALLATION INSTRUCTIONS

Install the two adjacent wall panels into the floor track and slide into the corner post. Plumb corner post.

Install mitered ceiling cap corners over corner post and wall panels to stiffen corners before proceeding. With each standard unit, you will receive eight short pieces of mitered ceiling cap with an angle. These special pieces will be used to make your ceiling cap corners. Attach the corner connection together with a splice plate. The end not mitered should end up at the center line of a wiring post. If not, then field cut.

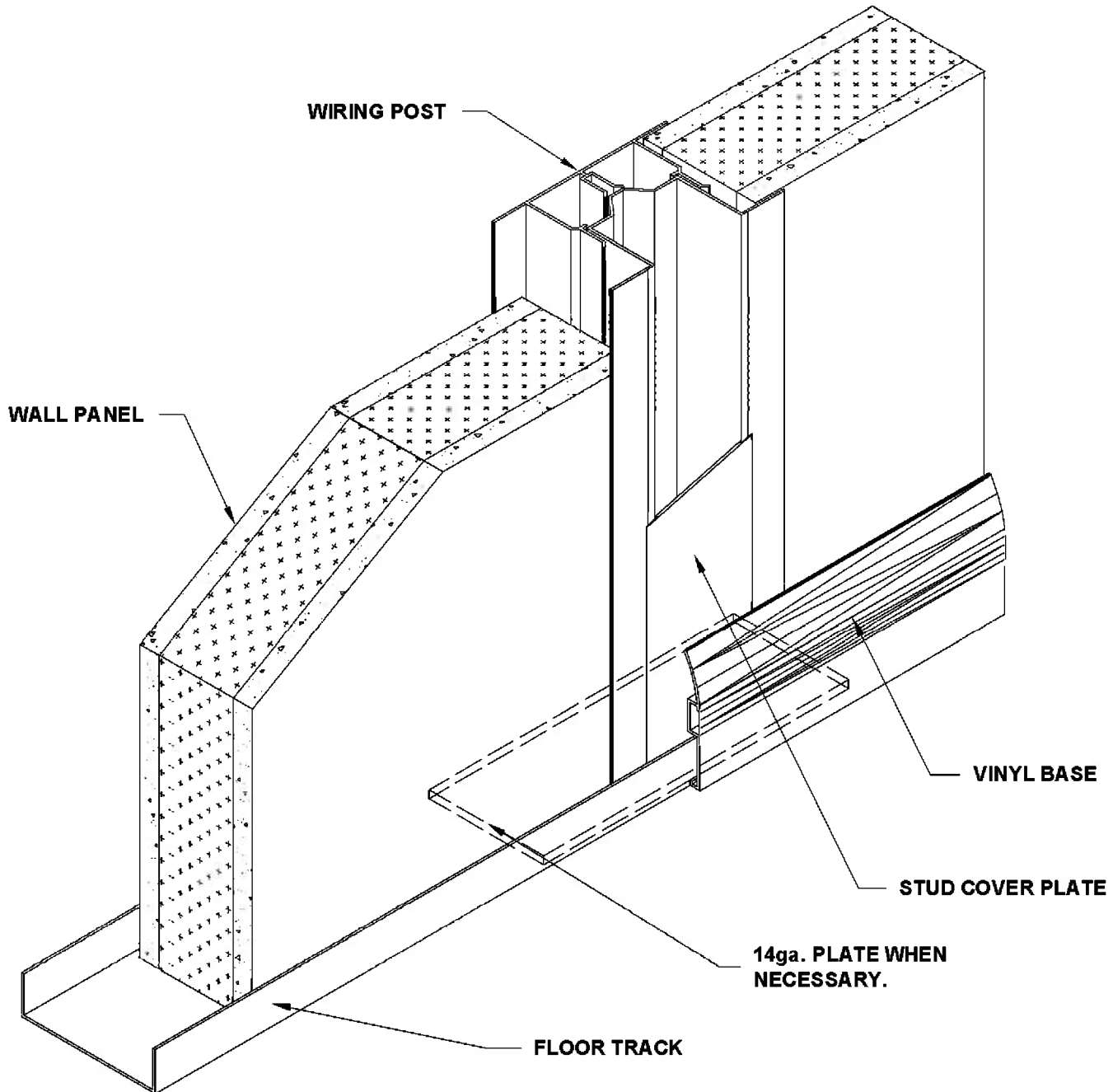


Now continue along either wall by first locating center lines of wiring posts. These dimensions will be shown on the layout drawings. (see example below)



INSTALLATION INSTRUCTIONS

NOTE: Whenever the 3" sys. that is being installed is either a two-story unit or a unit with a load bearing roof, it will be necessary to place inside the floor track, under each wiring post, a 14 ga. plate 8" long by 3" wide. These plates are supplied by Inplant Offices.



Insert next panel into floor track; slide into wiring post and tighten wiring post screws.

Proceed around the perimeter in the same manner. Install ceiling cap corners after each corner post is in place and tightened. Check the center line dimension of each wiring post with the dimension on your print. This will eliminate any growth or shrinkage of the overall dimension.

The last panel will be installed by separating the wiring post and reconnecting after the last panel is in place.

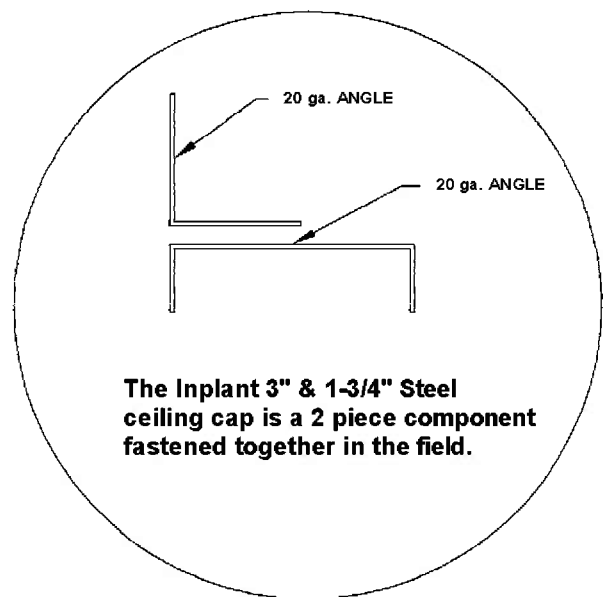
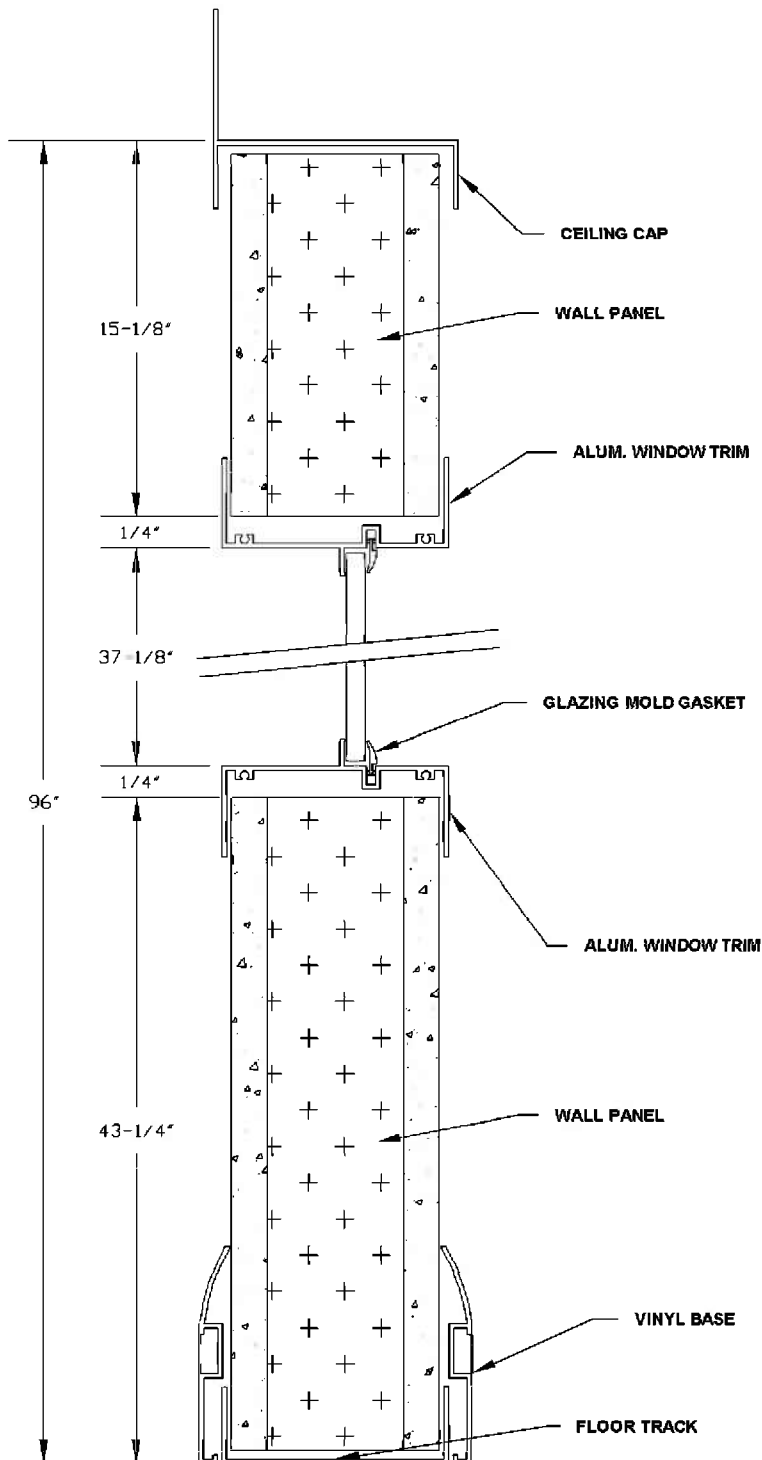
INSTALLATION INSTRUCTIONS

Check to make sure all corners are plumb. Now cut ceiling cap to fit between the ceiling cap corners.

SPECIAL NOTE: It is very important that the joint of the ceiling cap corner and ceiling cap be located over a wiring post.

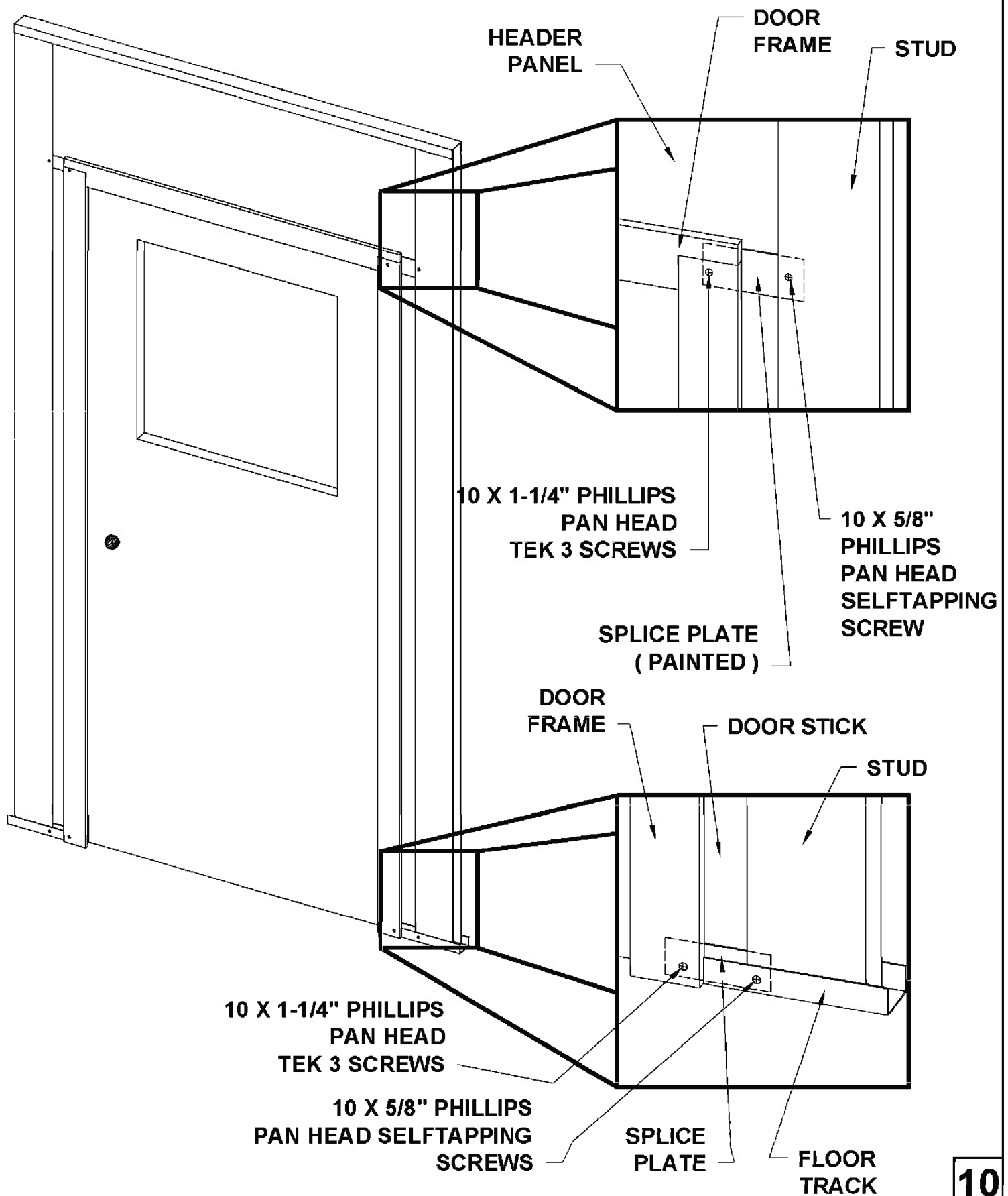
On the interior side of the building, drill 2 holes through the interior leg of the ceiling cap and wiring post and through the interior leg of the floor track and the wiring post. Pop-rivet or screw the ceiling cap and floor track to the wiring post at these 4 locations. (SEE DETAILS ON PAGE 6)

Below is a cross section of a standard 3" wall system with a window @ 8' tall



INSTALLATION INSTRUCTIONS

ALL SINGLE DOORS WITH STEEL FRAME



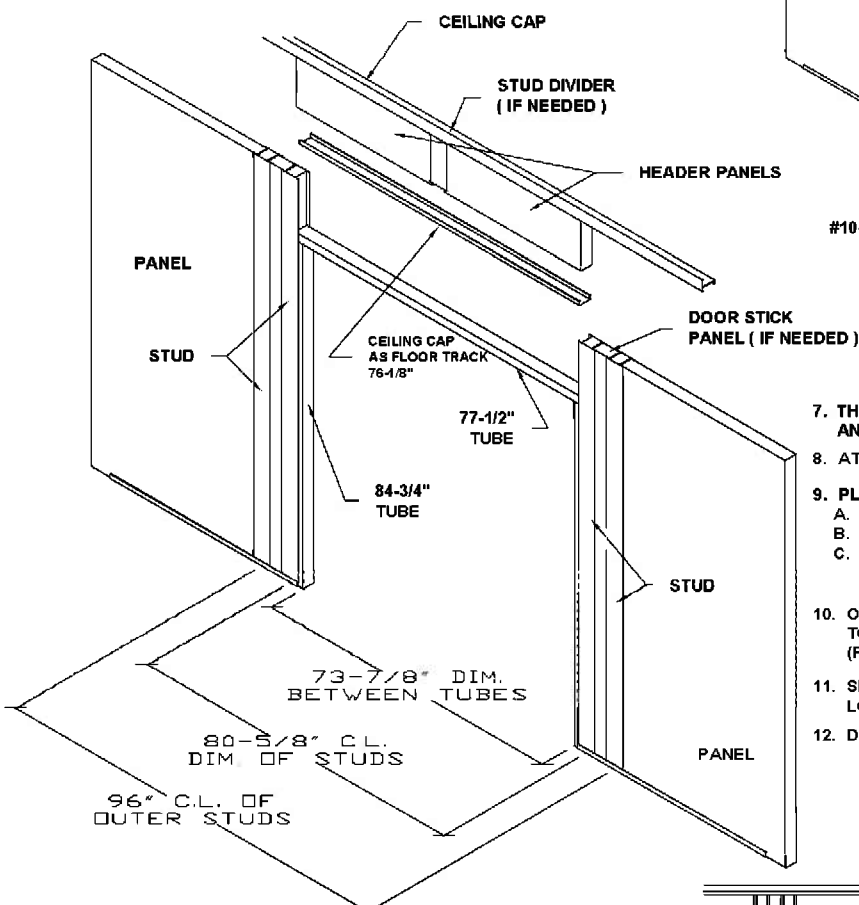
INSTALLATION INSTRUCTIONS

6070 DOUBLE DOORS WITH STEEL FRAME

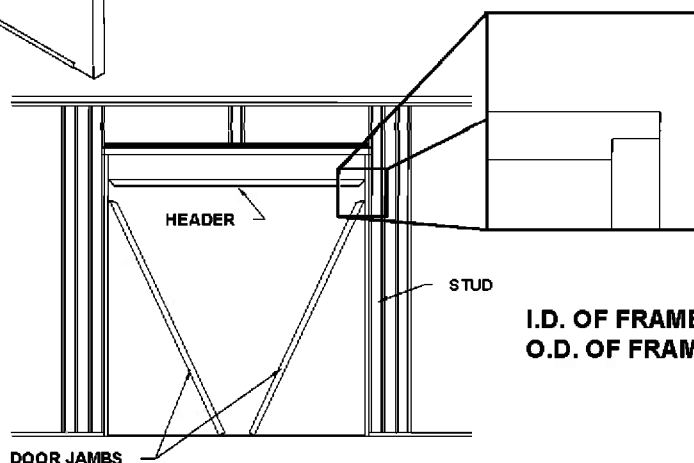
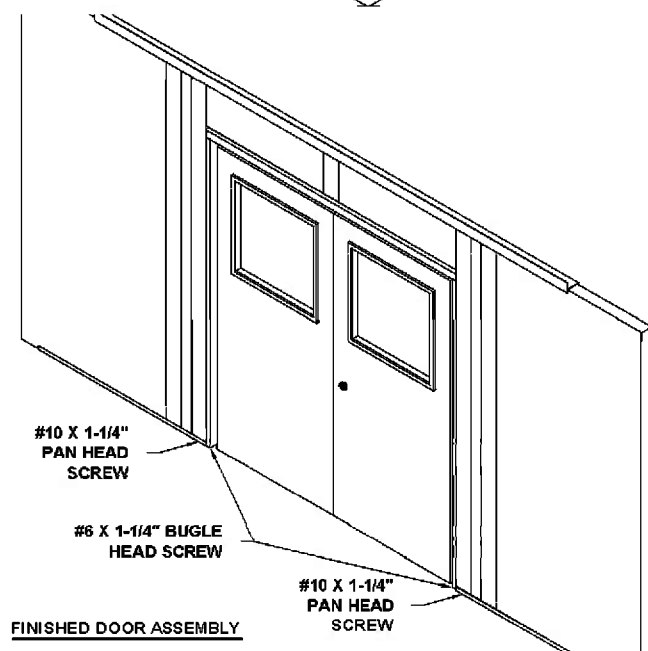
NOTES:

1. LOCATE AND PLUMB POSTS AT THE REQUIRED 80-5/8" APART. (CENTERLINE DIMENSIONS). SECURE ONE OF THE POSTS TO THE FLOOR TRACK WITH A #10-16 X 3/4" SCREW.
2. INSERT VERTICAL 84-3/4" TUBE INTO THE SIDE OF THE POST AS SHOWN, 3" SIDE TO BE INSERTED INTO POST.
3. PLACE THE 77-1/2" TUBE HORIZONTALLY ON TOP OF THE TWO VERTICAL TUBES AND INTO THE SIDES OF THE WIRING POSTS AS SHOWN. YOU NOW HAVE A 3 SIDED STEEL TUBE FRAME.
4. INSTALL DOOR HEADER PANEL OR PANELS BY FIRST ATTACHING PTD. "C" ON TOP OF THE HORIZONTAL TUBE. THEN INSTALL PANEL OR PANELS AND THE SHORT WIRING POST (IF REQUIRED). THE SHORT WIRING POST WILL REST IN THE "C" CHANNEL.
5. PLACE THE CEILING CAP OVER THE PANEL ASSEMBLY AT THIS TIME.
6. FINISH ERECTING THE REMAINING WALLS, ROOF DECK AND CEILING BEFORE GOING ON TO STEP 7.

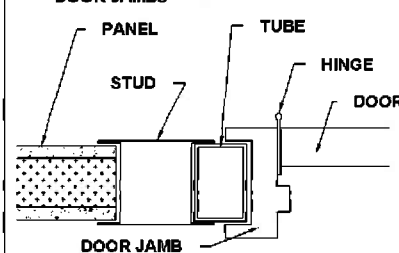
1. READ ALL OF THE DOOR ASSEMBLY INSTRUCTIONS PRIOR TO SETTING DOOR.
2. ASSEMBLY OF POSTS AND STEEL TUBES MUST BE COMPLETED AT THE TIME THE DOOR IS BEING ERECTED IN THE WALL.
3. IF FLOOR IS SLANTED, WORK FROM THE HIGH SIDE AND SHIM VERTICAL TUBES SO THAT THE HORIZONTAL TUBE IS LEVEL.



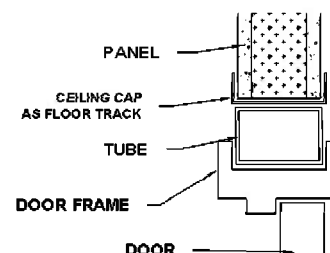
7. THE DOOR FRAME IS A 3 PIECE KNOCKDOWN FRAME. SLIDE THE DOOR JAM AND HEADER OVER THE PREVIOUSLY ERECTED TUBE FRAME.
8. ATTACH DOOR TO THE DOOR FRAME.
9. PLUMB THE DOOR AS FOLLOWS:
 - A. REPLUMB THE STUDS AND TUBES.
 - B. PLUMB ONE JAMB AND FASTEN AT THE HEADER.
 - C. VERIFY THAT THE HEADER IS LEVEL, PLUMB THE OTHER JAMB AND FASTEN TO HEADER.
10. ONCE THE DOOR IS PLUMB, SECURE FLOOR TRACK, POST AND TUBE TOGETHER WITH #10 X 1-1/4" PAN HEAD SCREWS ON EACH SIDE OF STUDS. (PRE-DRILL TUBES.)
11. SECURE DOOR FRAME TO TUBES WITH #6 X 1-1/4" BUGLE HEAD SCREWS IN LOCATIONS ON EACH SIDE OF THE DOOR FRAME. (PRE-DRILL TUBES.)
12. DOOR ASSEMBLY IS NOW COMPLETE.



I.D. OF FRAME 72"
O.D. OF FRAME 76"



SECTION



SECTION

INSTALLATION INSTRUCTIONS

WINDOW PANELS

The window units consists of three parts:

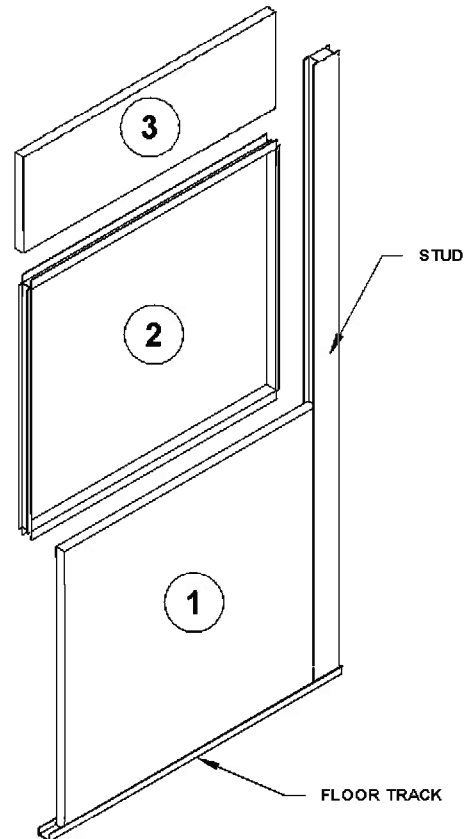
1. Lower window panel.
2. Preglazed framed window.
3. Upper window panel.

These units slide into the wiring post in the same manner as the flush wall panels.

1. Insert the lower window panel in adjacent wiring post.
2. Now install the window frame & glass.

******Remember, this unit is glass and could break.******

3. Insert the upper window panel.
4. Slip on adjacent wiring post and proceed to the next panel.



For a proper installation, make certain that the window frames are inserted all the way into the wiring posts and sill heights align. If you have a wall consisting of all windows units, it is imperative that the windows be pushed all the way into the wiring posts; otherwise, the wall will grow in length and you will be unable to fit the last unit in at the corner.

ELECTRICAL

The wiring post is designed to route wire and receive electrical boxes.

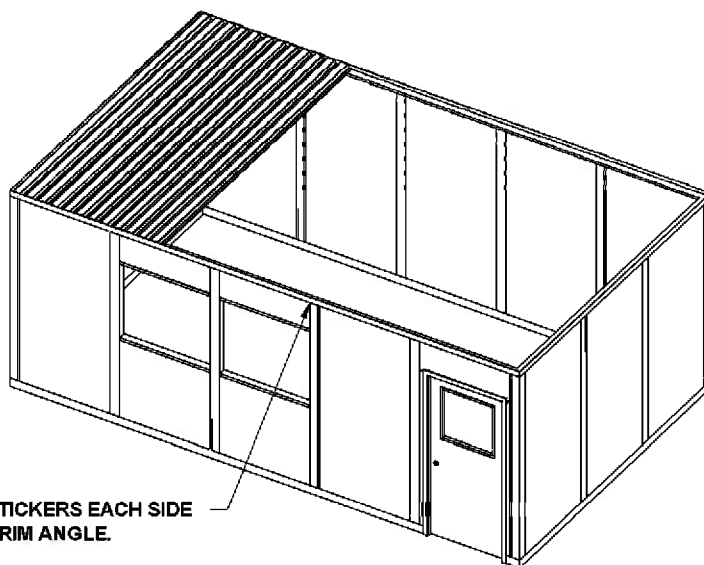
When your building shell is complete, mount your electrical box and conduit in the recess in the wiring post. Terminate the conduit just above the lay-in grid ceiling (conduit, boxes, switches and outlets are furnished).

Pull wire (not furnished) and complete electrical hook-ups. Now measure and cut wiring post cover to run from top of electrical box to 1/2" above ceiling mold, and from bottom of box to floor. Slide cover behind wall mold and floor track and snap into wiring post.

INSTALLATION INSTRUCTIONS

ROOF DECK

NOTE: ROOF DECK IS NOT DESIGNED FOR THE WEIGHT OF A PERSON OR FOR STORAGE.



IMPORTANT: PLACE CAUTION STICKERS EACH SIDE OF BUILDING ON TRIM ANGLE.

1. The metal decking furnished to you is of the modified "V" roll-formed design. As such, it will grow or shrink in width during assembly. Care should be exercised to control the dimensions while erecting. Make sure that all walls are plumb as you begin fastening the roof deck to the ceiling cap.

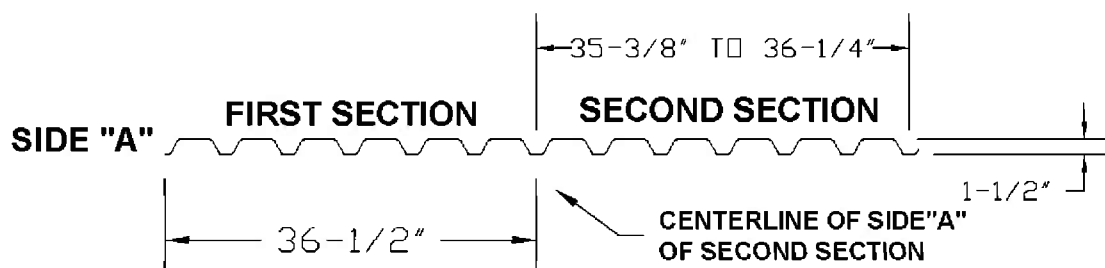
SIDE "A"



SIDE "B"

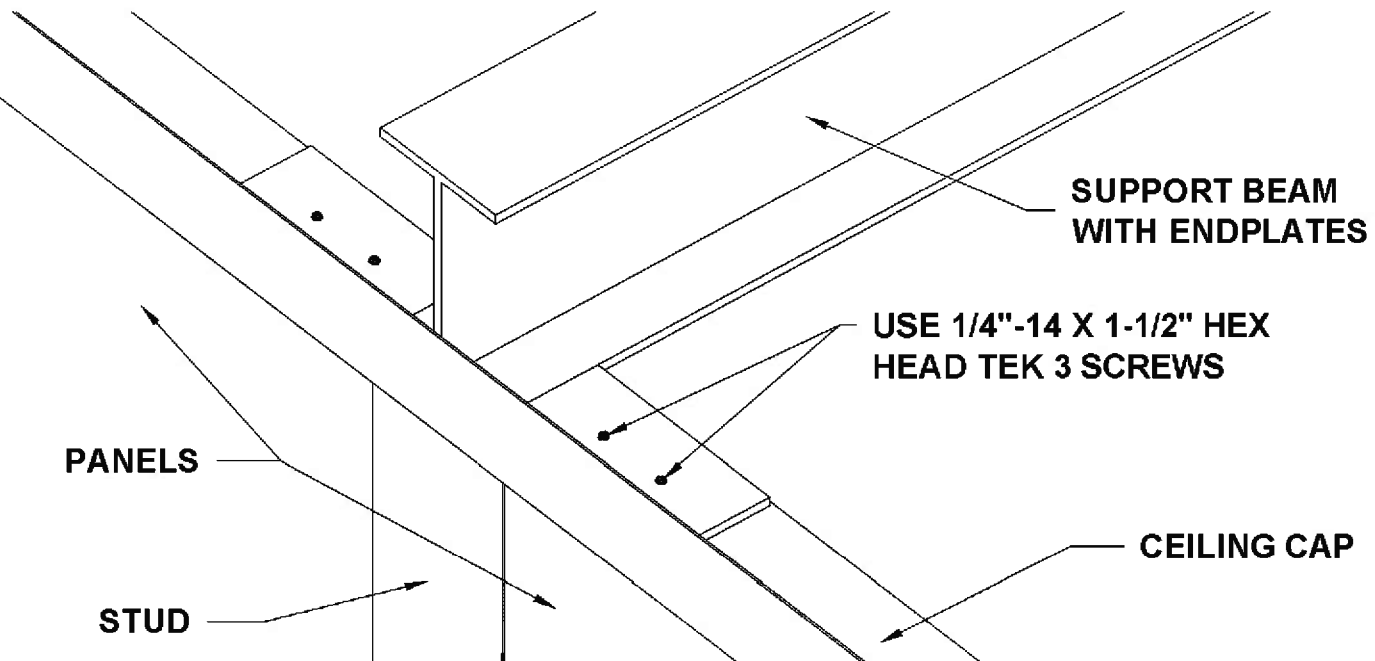
2. In buildings with an outside dimension of 12'4-1/2" or less in the short dimension, supplementary support members are not required. For these buildings, the decking will span from wall to wall.

- A. Locate the first piece of decking starting at one end of the building.**
- B. Make certain that this first piece starts square with the building. Drill the deck and ceiling cap on the long side and screw together. Screws should be at each end and approximately on 18" centers in between.**
- C. Install the second section of decking in place by setting the valley on side "A" into the valley of side "B" on the previous piece of deck.**
- D. Screw the ends of the first piece of decking in the center of each valley into the ceiling cap. Also, screw the lap joint every 18" along the length of the decking.**
- E. Repeat these steps to complete roof deck installation.**
- F. Upon completion, all edges of the roof deck will be screwed into the ceiling cap in every valley and all lap joints of two pieces of decking will be screwed together on 18" centers.**



INSTALLATION INSTRUCTIONS

3. In buildings with the short dimension greater than 12' 4-1/2", one or more support beams will be used. The metal deck will be fastened to the support beams following procedures outlined in step 2.



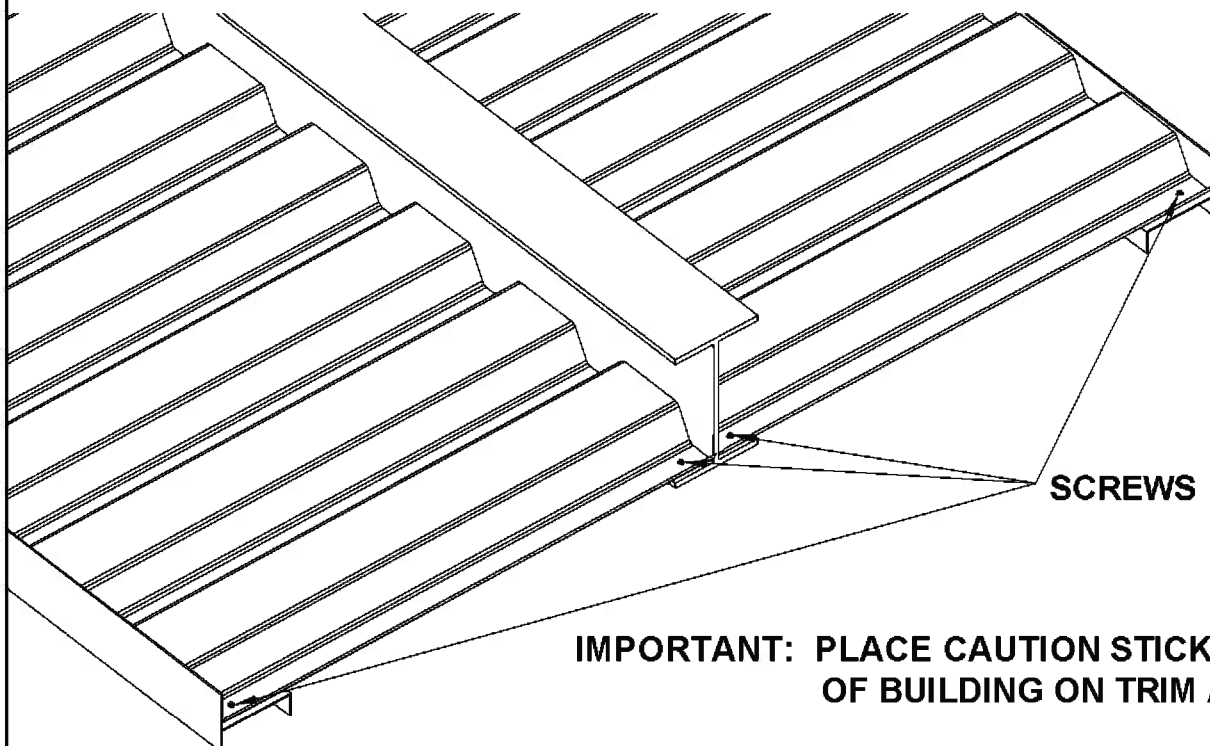
These support beams will rest on the top of the ceiling cap. Drill 3/16" diameter hole, two on each side of beam, and attach to the ceiling cap with 1/4"-14 x 1-1/2" hex washer head self-tapping screws which are provided.

CAUTION: FOR SAFE INSTALLATION, ANCHOR DECK AS YOU GO.

Also, work deck on both sides of the support beam to give even loading to the support beam.

For your safety, you must follow the above instructions.

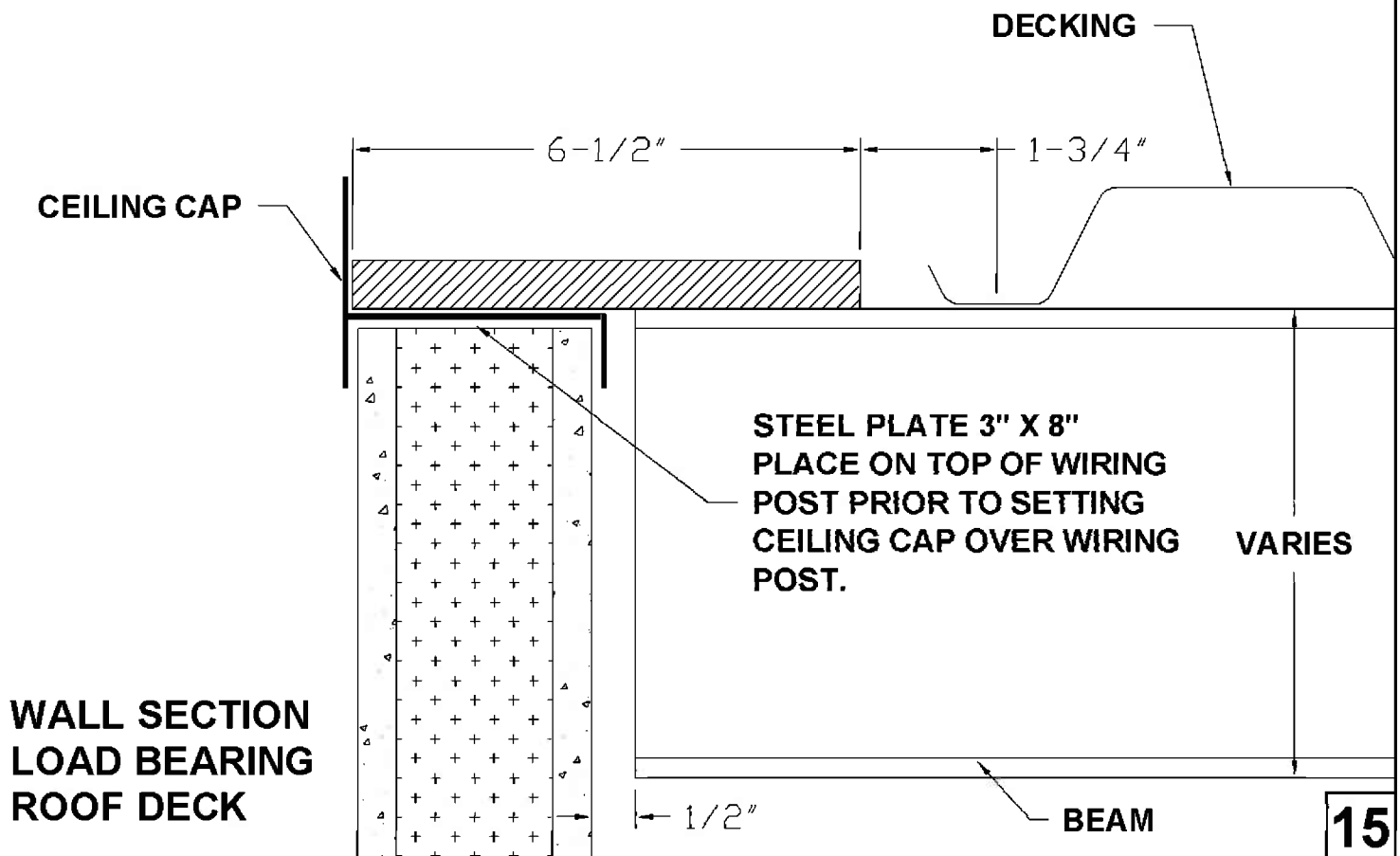
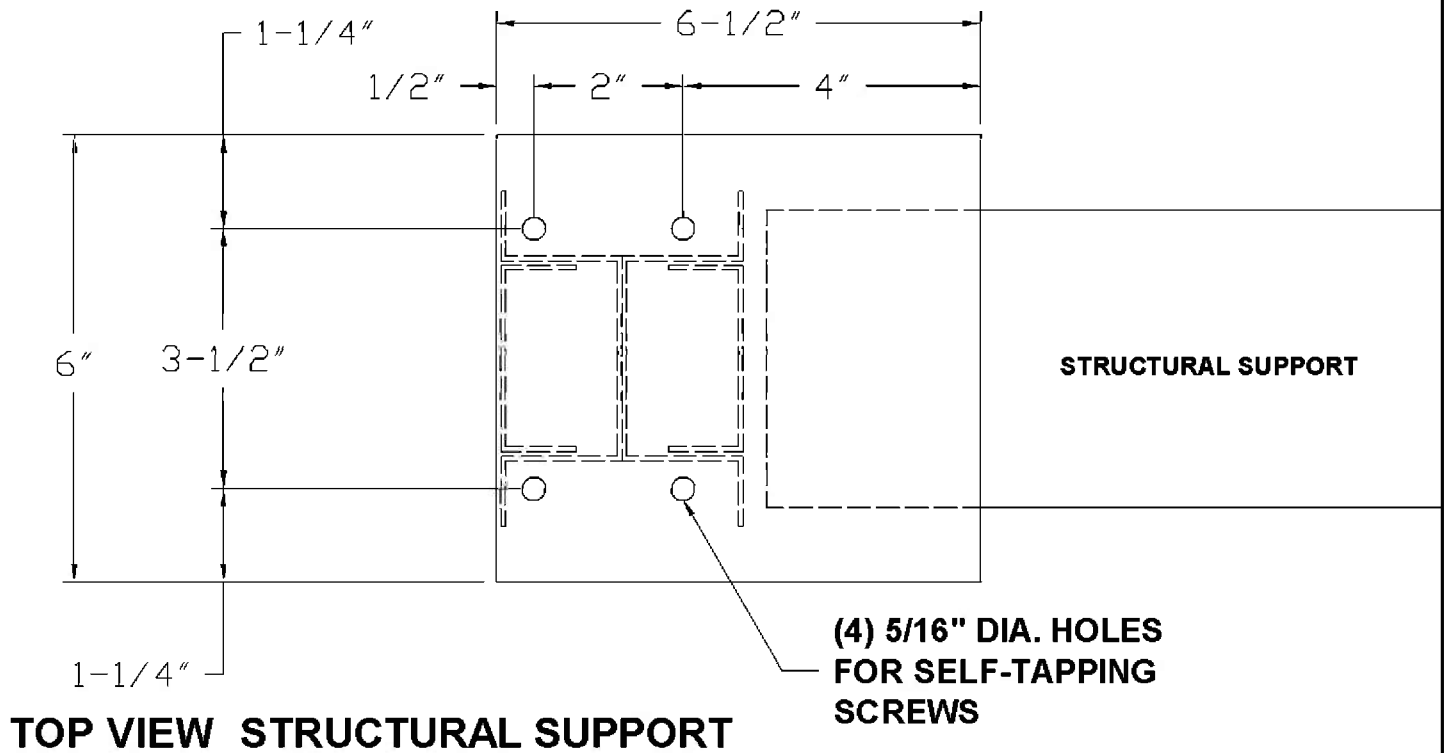
4. Consult building print for location of support beam braces and install on deck as you go.



IMPORTANT: PLACE CAUTION STICKERS EACH SIDE OF BUILDING ON TRIM ANGLE.

INSTALLATION INSTRUCTIONS

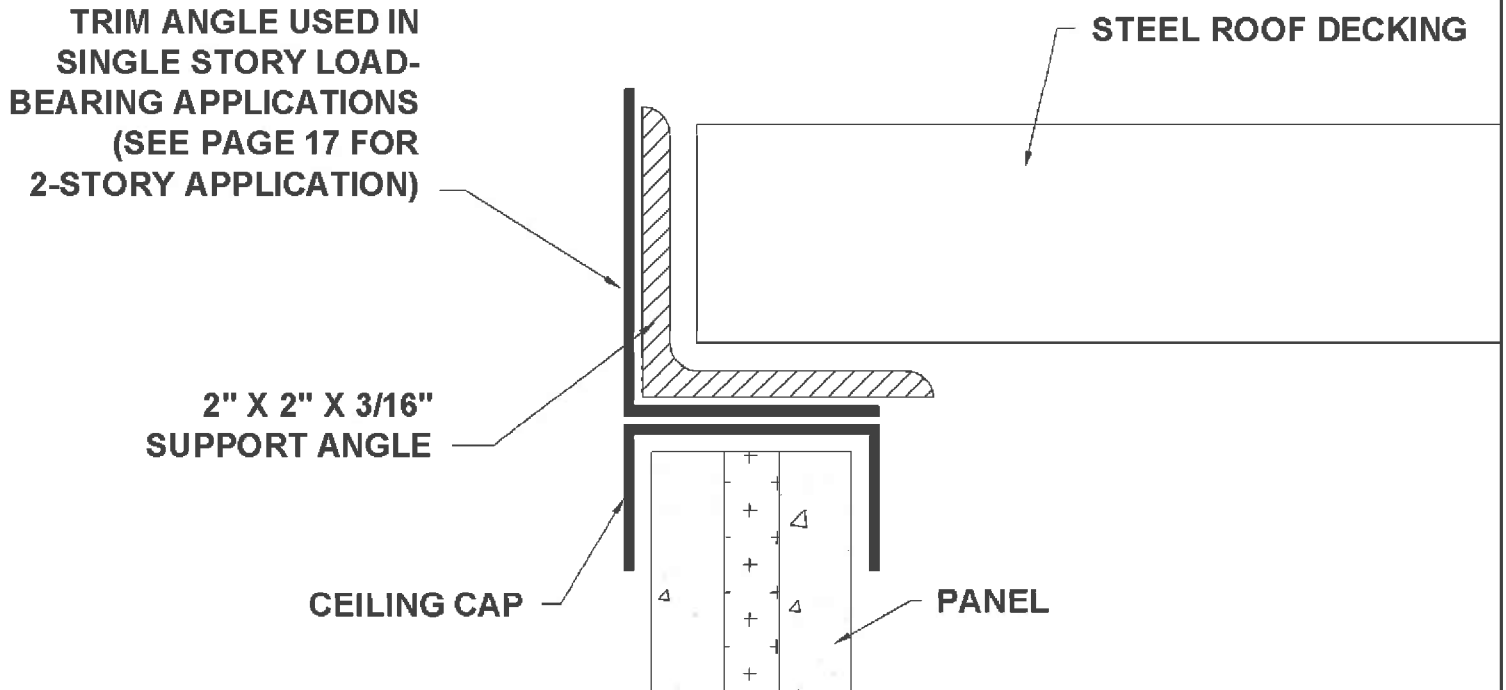
For load bearing roof deck and second floors, the beams are heavier and are mounted as shown below.



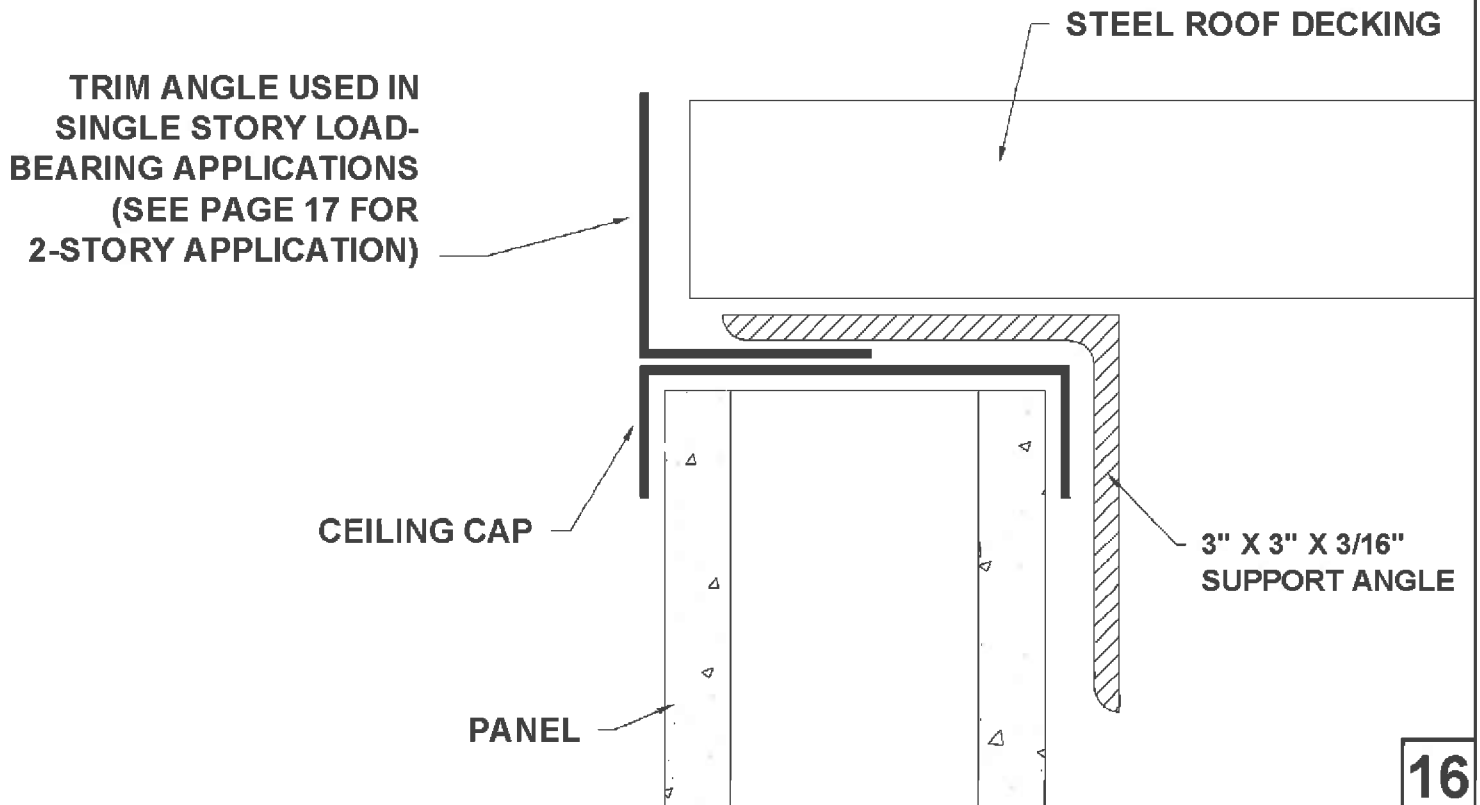
INSTALLATION INSTRUCTIONS

For load bearing roof decks and second floors. Detail of support angle for 1-3/4" Sys. & 3" Sys.

SECTION VIEW (1-3/4" System) STRUCTURAL SUPPORT ANGLE (END WALLS PARALLEL TO BEAMS)

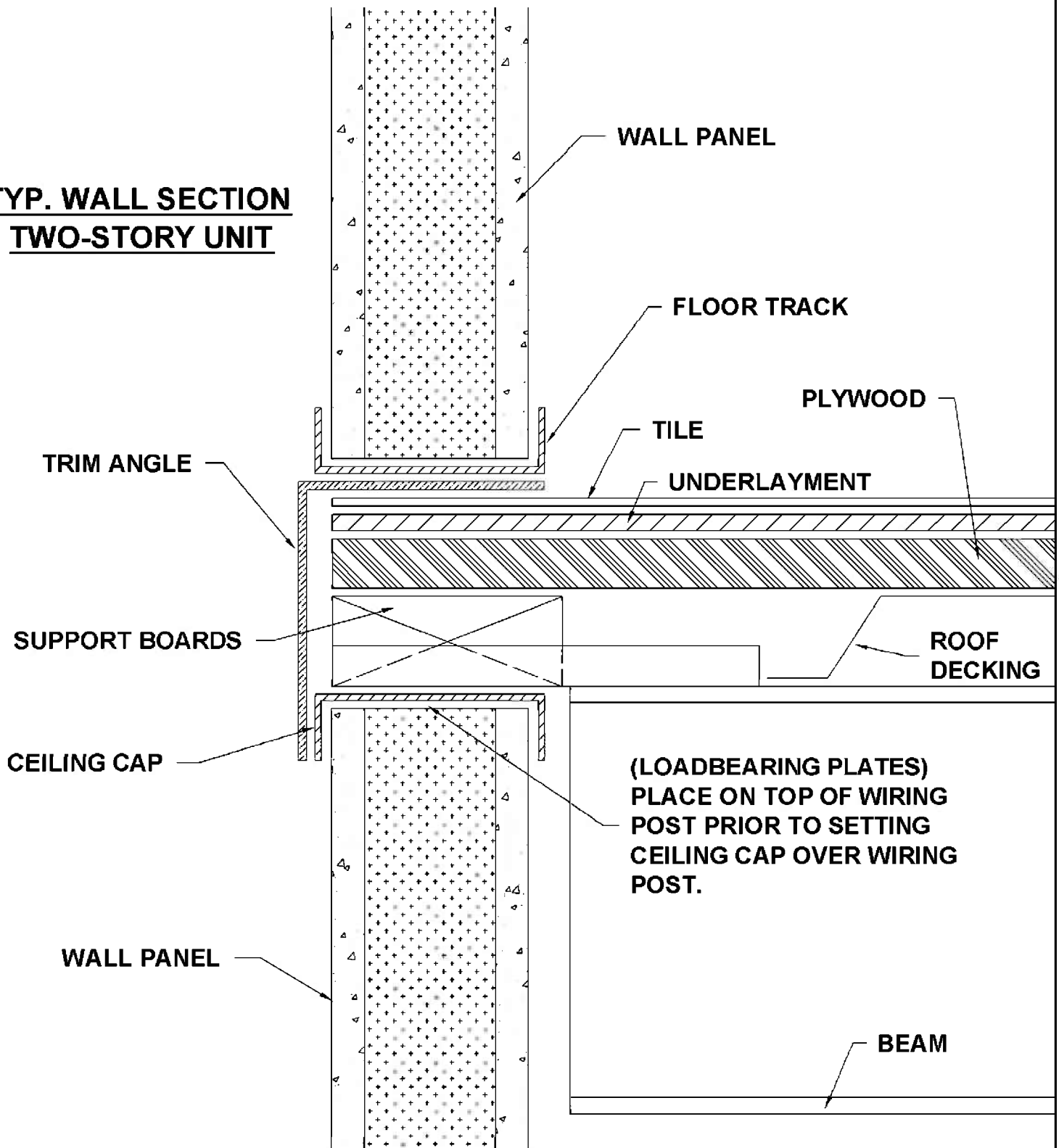


SECTION VIEW (3" System) STRUCTURAL SUPPORT ANGLE (END WALLS PARALLEL TO BEAMS)



INSTALLATION INSTRUCTIONS

TYP. WALL SECTION TWO-STORY UNIT



These heavier beams are supported by plates welded to the top of the beams. These plates rest on the ceiling cap and are attached with self-tapping screws. The roof deck must be attached to the support beams 6" on center.

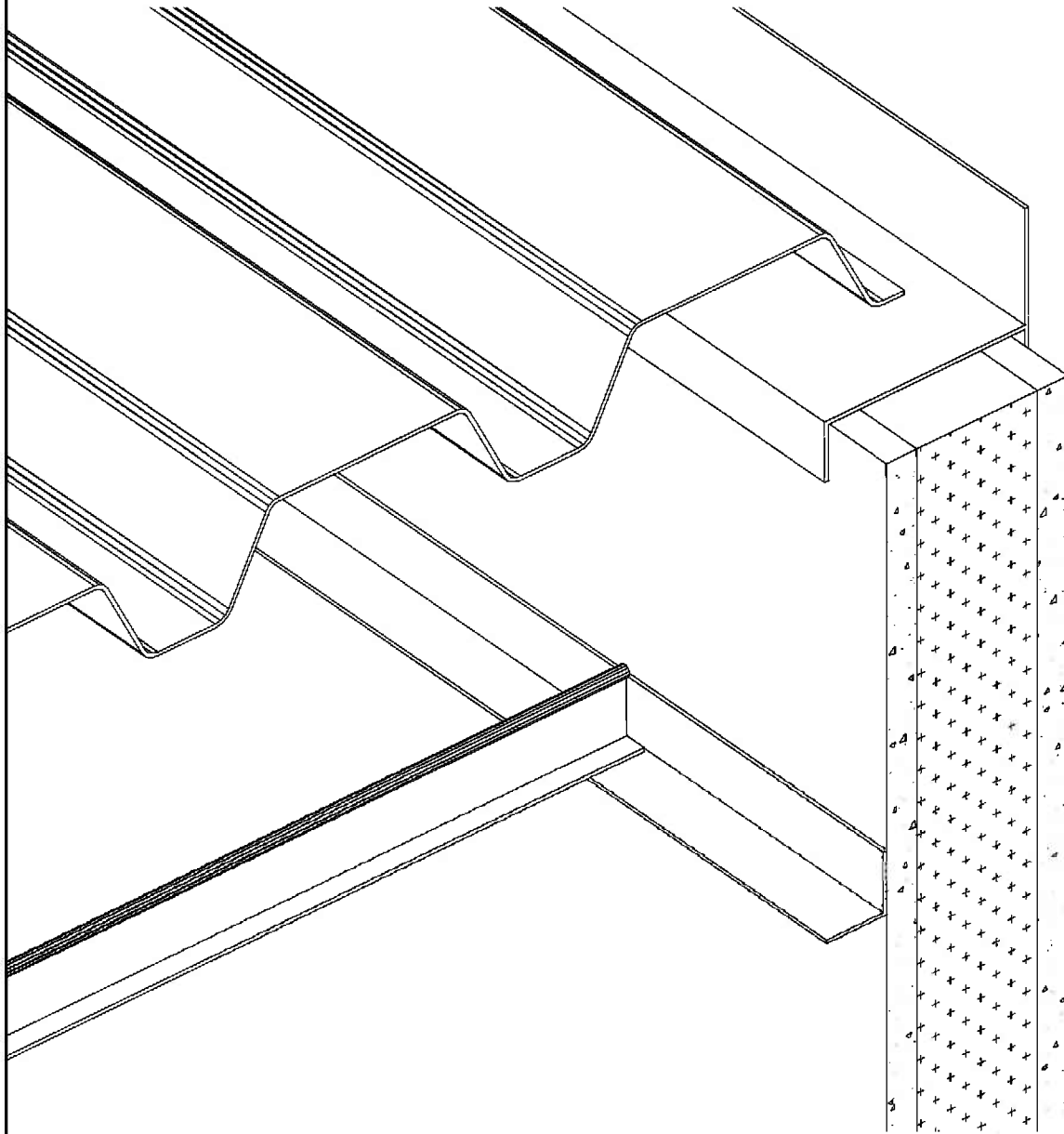
On the end walls where the roof deck ribs are perpendicular to the walls, the 3-1/2" x 1-1/2" support board is omitted and the steel roof deck supports the plywood flooring of the second floor.

It will be necessary to attach a 1/4" underlayment to the plywood floor prior to laying a vinyl tile floor.

INSTALLATION INSTRUCTIONS

CEILINGS

The section below shows the ceiling grid with respect to the roof deck, wall and ceiling cap.



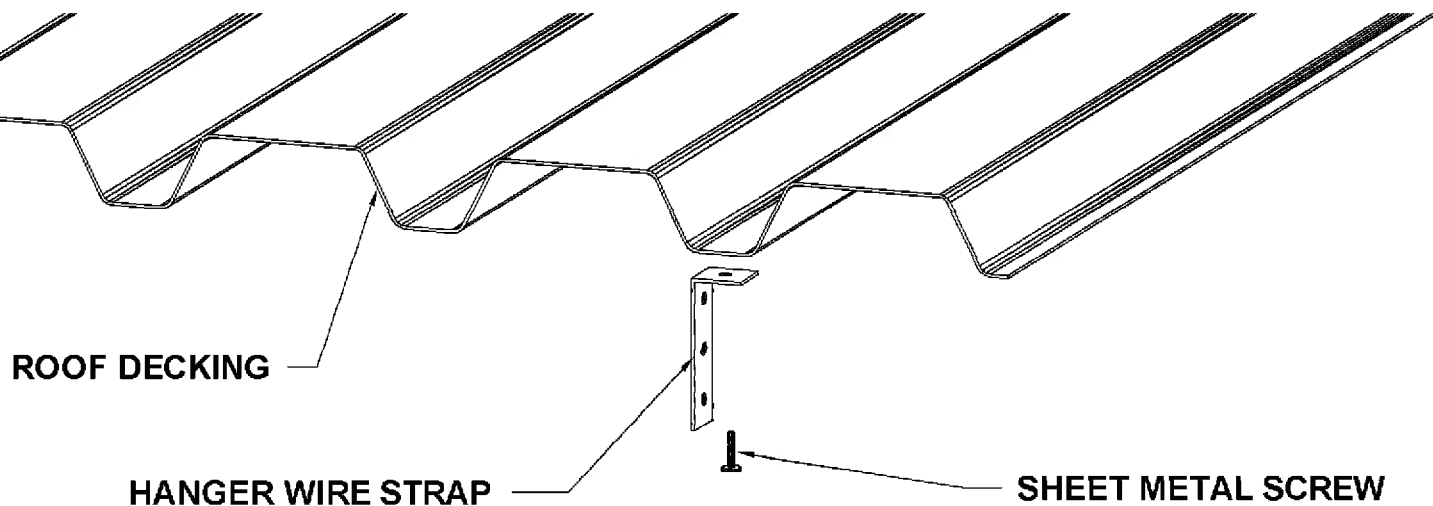
INSTALLATION OF STANDARD CEILING

The standard ceiling furnished is the 2' x 4' lay-in suspended grid type. The installation is similar to other applications of this type system.

1. Determine ceiling height. The ceiling may be set at any height to suit field conditions, but 7'-6" is recommended. Factory recommendations are that the height be no less than 6" from the top of the walls (this provides adequate space for lights and insulation under the roof deck.) After the ceiling height has been established, mark and snap a level chalk line on the walls for the room marking the location of the top of the wall molding.
2. Install wall molding making certain that the top of the molding is in line with the level chalk mark. For inside corners, lap one piece of molding over the other. Wall molding should be anchored with either sheet metal screws or pop rivets.

INSTALLATION INSTRUCTIONS

3. Install main runners at locations shown on drawing using hanger wire furnished. Be certain that the first cross tee anchor points correspond to building drawing. Locate hanger straps on the underside of the roof deck as required to suspend ceiling: (See drawing below.)



HANGER WIRE STRAP FOR MAIN RUNNERS

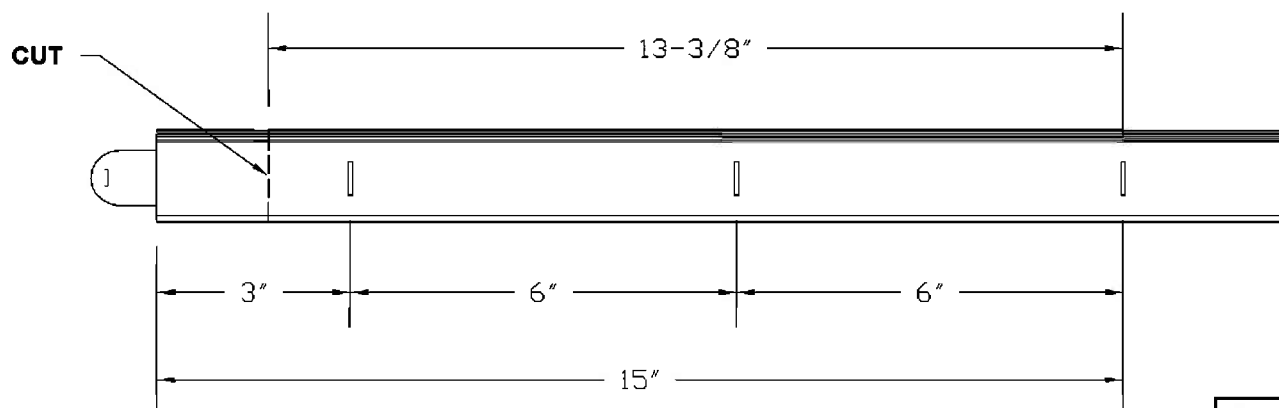
Attach ceiling hanger wire to hanger strap then bend a 90° at ceiling height. Hanger wires should be spaced not more than 4' apart. Make certain that a hanger wire is located at each corner where lay-in lights fixture(s) will be.

Install the main runner making sure it is straight and level. A chalk line stretched adjacent to the runner will facilitate this installation.

It is necessary that cross tee anchor points align on all main runners. Standard main runners have 24 cross tee slots 6" on center starting 3" from each end. When joining main runners together, the 3" on each end maintains the 6" spacing.

If the ceiling has an odd sized border, the main runner must be cut. Measure from the inside slot nearest that measurement out.

For example, if the border is 13-3/8", measure back from the slot just over 13-3/8", which is 15" in this case and cut. After cutting to length, the slots will be correctly spaced.



INSTALLATION INSTRUCTIONS

The main runners may be spliced together when spanning over 12' is required. Join main runners by snapping together making sure that the painted side of each runner corresponds.

Start the next row using the remaining piece of main runner by trimming cut end so that cross tee anchor points align on all main runners.

Install cross tees at points indicated on shop drawing. Intersections of cross tees and main runner must form 90° corners.

4. Cutting ceiling panels may be accomplished with panel face up using a saw or a very sharp fiberboard knife. Measure and cut each of the border panels individually.

5. Install the ceiling panels. Lay-in panels are installed by resting these units on cross tee and the main runners flanges. Exercise care when handling ceiling panels to avoid marring the surface. Handle edges of the panels keeping the fingers, and particularly the thumb, off the finished side of the board as much as possible. Clean hands are necessary for a clean job. Lay-in the light fixture(s) in the same manner as the ceiling panels and the ceiling is complete.

BLACK SCREW-ON BASE

The black screw-on base should be installed with screws provided. Screws should be located a minimum of 2'-0" on center, in center groove under flap.

TWO AND THREE SIDED BUILDINGS INSTALLATION

1. Strike a chalk line at a 90° angle to the existing wall at the point where the system is to intersect. (This line will locate the outer edge of the floor track.)

2. Locate the point on this line where the intersecting wall will connect (refer to the print for exact dimension). At this point, construct a 90° intersecting line.

3. Complete the outline of the building in similar fashion.

4. Starting at the point located in step one, install floor track as specified in the standard instructions.

5. Cut and install wall starter vertically into the floor track. Use anchors (not furnished) appropriate for field conditions and wall composition. If no shimming of panels is required, the length of the wall channel will be the same length as the wiring post.

6. Install panels starting at existing wall. First panel will insert into wall channel.

7. For easy installation, install wall panels by working from each existing wall with the door being the last portion of the wall to be installed.