

## FIELD "AS-BUILT" NOTES

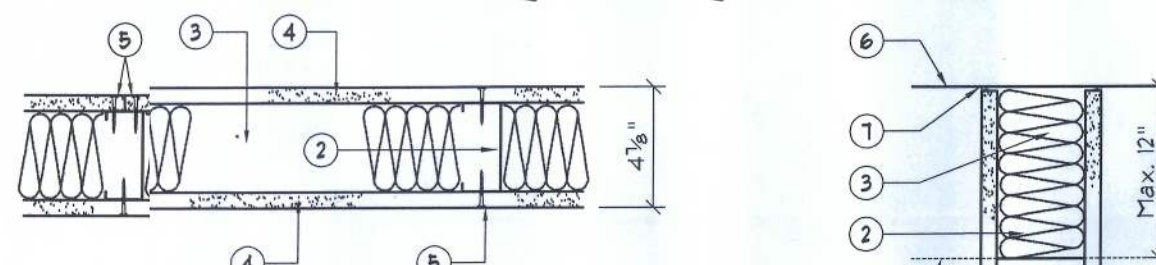
### REINFORCED MASONRY WALLS:

- HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE I, GRADE N, SQUARE END, WITH A MINIMUM AVERAGE COMPRESSIVE STRENGTH ON NET AREA OF 1700 PSI. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530I SPECIFICATIONS.
- SPECIAL INSPECTOR SERVICES ARE REQUIRED FOR ALL REINFORCED MASONRY CONSTRUCTION. THE SPECIAL INSPECTOR SHALL INSPECT THE PLACING OF THE REBARS IN THE CELLS, VERIFY CLEANLINESS OF THE CELLS TO BE GROUTED, AND OBSERVE THE PLACING OF THE GROUT OR CONCRETE INTO THE CELLS.
- MORTAR SHALL CONFORM TO ASTM C-270, TYPE "M" OR "N".
- LAY ALL MASONRY WITH FULL FACE HEAD JOINTS AND WITH FACE SHELL MORTAR BEDDING.
- MASONRY ANCHORAGE TO SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS.
- THE USE OF ADVENTURES SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW OF THE ENGINEER.
- VERTICAL REINFORCING:
  - ASTM A-615 PER REINFORCING SECTION.
  - WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL INCH TO SIX INCHES VERTICALLY FOR ALIGNMENT, EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.
  - VERTICAL REINFORCING STEEL SHALL BE PLACED CENTERED IN THE CELL. LAP 48 BAR DIAMETERS. PROVIDE BAR SPACERS AS REQUIRED TO MAINTAIN REINFORCING SECURED IN POSITION.
  - VERTICAL REINFORCEMENT SHALL BE PROVIDED AT EACH SIDE OF OPENINGS IN WALL, AT WALL INTERSECTIONS, CORNERS AND ENDS. THIS REINFORCING SHALL BE THE SAME SIZE AS THE SCHEDULED WALL REINFORCING FOR THE PARTICULAR WALL BUT NEVER LESS THAN A #5 REBAR. SPECIAL CARE SHALL BE TAKEN TO INSURE THAT CELLS TO BE GROUTED LINE UP PROPERLY AND ARE CLEAN OF EXCESS MORTAR.
  - ALL VERTICAL REINFORCING SHALL BE HOOKED INTO THE BOND BEAMS AT THE NON-CONTINUOUS END OF THE REBARS.
  - PROVIDE INSPECTION HOLES AT THE BOTTOM OF EACH REINFORCED MASONRY CELL, AS REQUIRED FOR LIFTS HIGHER THAN 5 FT.
- HORIZONTAL REINFORCING:
  - PROVIDE GALVANIZED #9 GAGE, LADDER TYPE HORIZONTAL JOINT REINFORCING EVERY SECOND BLOCK COURSE (1'-4" O.C. VERTICALLY) LAPPED 7'-0". PROVIDE SPECIAL HORIZONTAL REINFORCING AT "T" AND "L" INTERSECTIONS. ANCHOR TO COLUMNS WITH MINIMUM 4" EXTENSION INTO AREA OF POUR.
  - PROVIDE "DOVE-TAIL" ANCHORS AT 16" O.C. VERTICALLY FOR ALL MASONRY PLACED ADJACENT TO ALREADY IN PLACE COLUMNS.
  - CELL FILLING CONCRETE SHALL BE "PEA DUCK" CONCRETE MIX (8" TO 9" SLUMP) OR GROUT WITH FC=3,500 PSI MIN. AT 28 DAYS.
- LINTELS:
  - THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE OR CAST-IN-SITE LINTELS AT THE HEADS OF ALL OPENINGS IN MASONRY WALLS NOT EXCEEDING SIX (6) FEET IN WIDTH WHERE BEAMS HAVE NOT BEEN SPECIFIED. FOR OPENING ADJACENT TO CONCRETE COLUMNS - THE LINTEL SHALL BE CAST-IN-PLACE WITH THE COLUMN.
  - LINTEL MAY BE INTEGRAL WITH THE STRUCTURAL OR THE BEAM WHEN HEAD OF THE OPENING IS 16 INCHES OR LESS BELOW. CONTINUE BEAM'S TYPICAL BOTTOM REBARS THROUGH AND ADD 2-#5 BOTTOM TRUSS BARS AT DROPS AND 2-#3 STIRRUPS AT 4 INCHES O.C. EACH END AT DROP.
  - MINIMUM BEARING FOR ALL LINTELS 8 INCHES EACH SIDE OR PROVIDE DOWELS AND POCKETS IN ADJACENT CONCRETE COLUMNS.
  - LINTEL TO BE MINIMUM OF 8 INCHES DEEP WITH 2-#4 TOP AND BOTTOM FOR CLEAR SPANS LESS THAN 6 FEET, 12 INCHES DEEP WITH 2-#5 TOP AND BOTTOM AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END, FOR SPANS GREATER THAN 6 FEET (UP TO 8 FEET). CALL ENGINEER FOR SPANS LARGER THAN 8 FEET WITH NO SPECIFIED BEAMS OR LINTELS OVER.

### COLD FORMED METAL FRAMING:

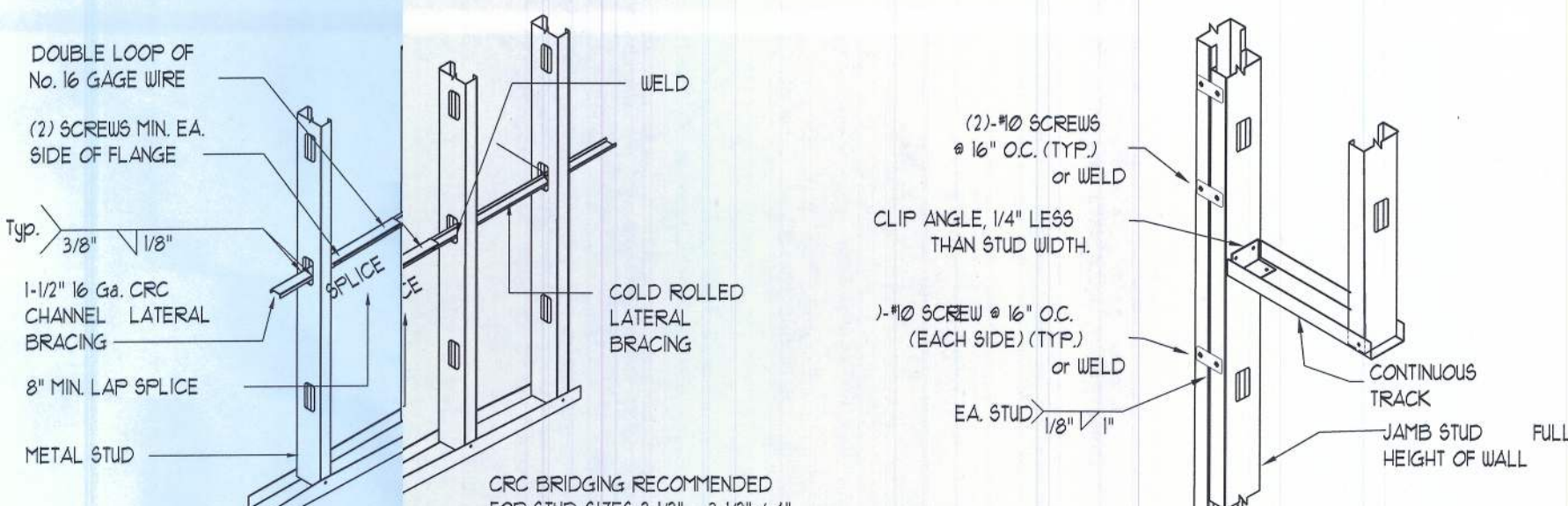
- ALL COLD FORMED METAL FRAMING SHALL BE DOMESTIC A.S.T.M. A 653 (Fy = 33 K.S.I.) STEEL, AND DESIGNED IN ACCORDANCE WITH THE LATEST S.S.I.A. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF COLD FORMED METAL FRAMING AND THE S.S.I.A. CODE OF STANDARD PRACTICE.
- ALL C/FM COMPONENTS SHALL BE MANUFACTURED AS PER ASTM C 955 AND BE GALVANIZED WITH A MINIMUM G-60 COATING PER ASTM C 955.
- ALL PRODUCTS SHALL BE FREE OF RUST, DENTS, BENDS & TWISTS AND STORED ON A FLAT PLANE PRIOR TO INCLUSION IN THE WORK.
- ALL WELDING TO BE IN ACCORDANCE WITH A.S.T.M. E13 & D13 "STRUCTURAL WELDING CODE - STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH ZINC RICH RUSTPROOFING PAINT.
- BOTTOM TRACK SHALL BE SECURED TO THE CONCRETE FOUNDATION w/ ANCHOR BOLTS AS PER THE FOUNDATION PLAN AND SHALL BE FURTHER FASTENED AT EA. FULL STUD W/ 1/2" DIA. X 1" PAF, SHOT THROUGH A 1" DIA. X 1/4" GA. HOLELESS WASHER.
- STEEL BEARING ON STEEL TO BE WELDED THERETO.

### Design No. U465 Nonbearing Wall Rating-1 Hr.

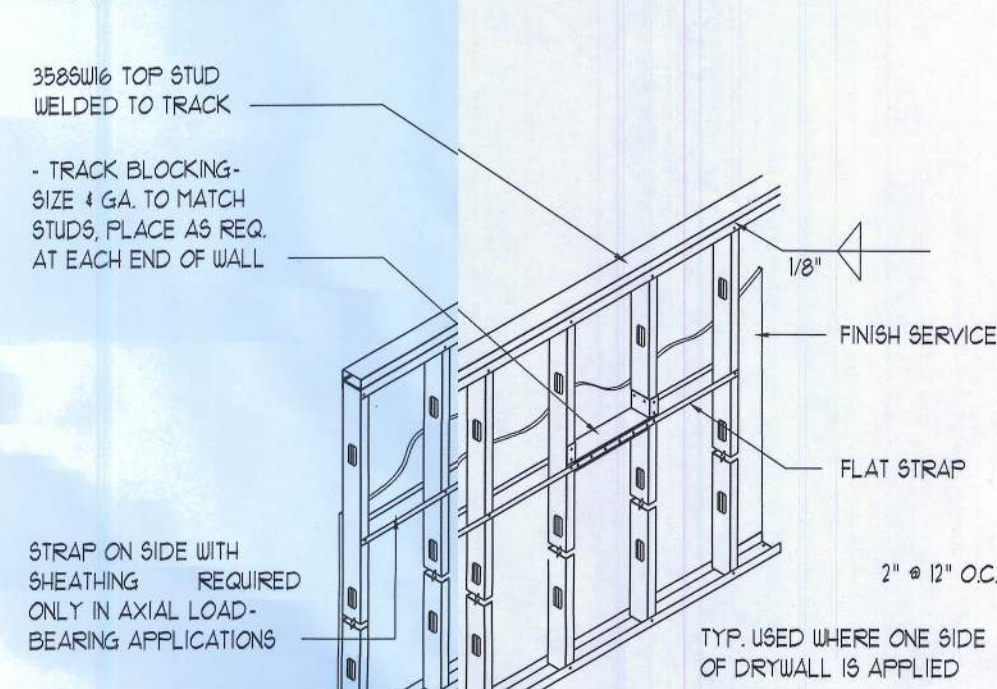


- Floor anfilling Runners - channel shaped runners, 3/8" wide x 1" deep located from 25 MSG galv. stl. attached to floor and deck w/ve with fasteners.
- Studs - "nel shaped 3/8" wide x 1 1/16" deep w/ 3/8" folded back, reburicated from 25MSG galv. stl. spaced @ 16" or 24" o.c. Length be 1" less than assembly height.
- Batts @lanketer- (Optional) mineral wool or glass fiber batts partially completely filling stud cavity.
- Gypsum board- 1/2" thick, 4 ft. wide, attached to studs & runners w/ 2 self-drilling, self-tapping stl. screws, 1" long spaced @ 16" o.c. along edges of boards and max. 12" o.c. in field of bts. Joints oriented vertically and staggered on opposite s. of the assembly.  
Canditypsum Co. Ltd.-Types C, SCX, SHX, WRC or WRX.  
U.S. Gypsum Co.-Types C, FCV, IFX2, SCX, SHC, SHX, WRC or WRX.
- Joint Tald Compound - Vinyl dry or premixed joint compound applied in coats to joints and screwheads - 2" paper tape embedded layer of compound over all joints. As an alternate nominal 3/32" gypsum veneer plaster may be applied to the entire surf of the Classified veneer baseboard joints reinforced.
- Fit Gueht to underside of roof deck, above and seal joint with 3M nptadent joint caulking.
- Metal Bng roof deck.
- Metal Bng "Cee" or "Zee" Purlins @ max. 5'-0" o.c.
- Bearing tl. Classification Marking

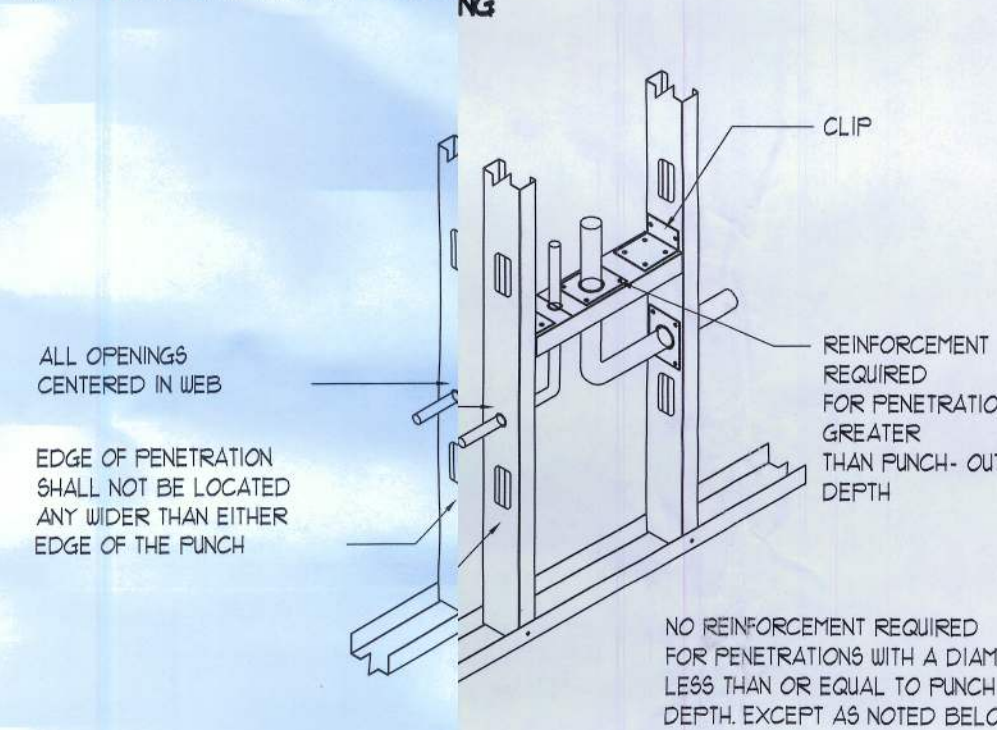
### Section @ Head



### WELDED CRC BRIDGING

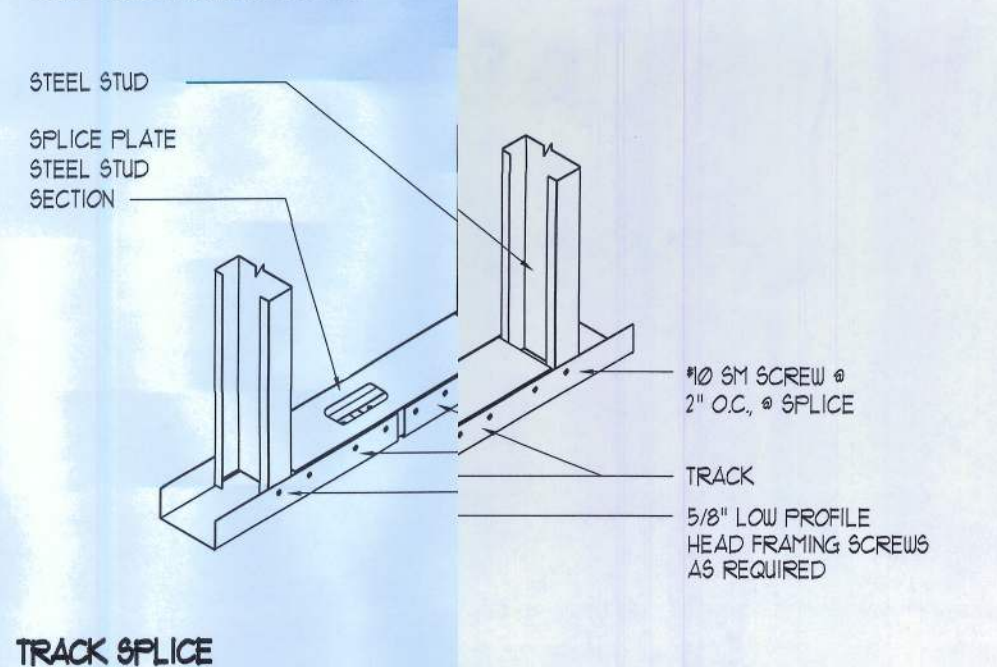


### FLAT STRAP LATERAL BRACING

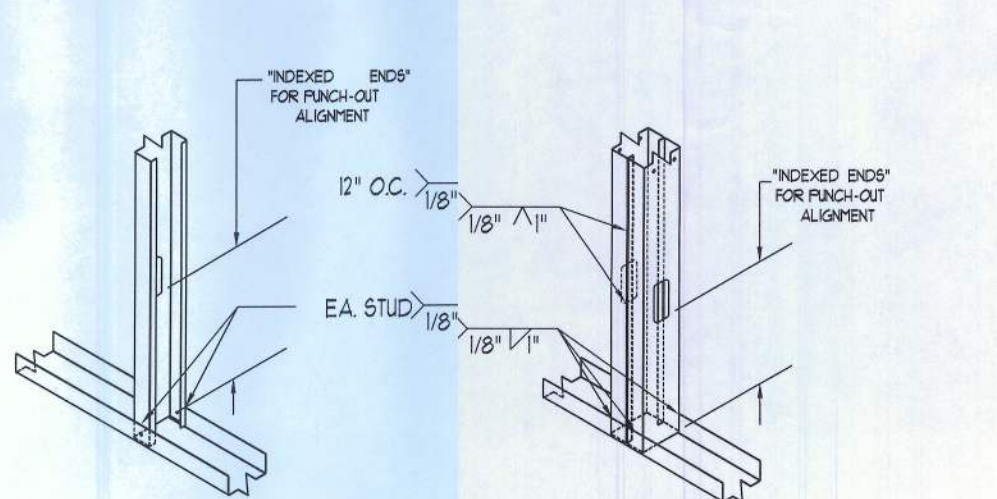


- NOTES:
- FLANGES SHALL NOT BE NOTCHED OR CUT.
  - CAPACITY VERIFICATION BY DESIGN IS REQUIRED FOR ANY OPENINGS LOCATED AT CONCENTRATED LOADS AND IS REQUIRED FOR ANY OPENINGS 3. APPLICABLE TO TRACK, STUDS, JOISTS AND BEARING ENDS.
  - ISTS & RAFTERS

### STUD WEB PENETRATIONS



### TRACK SPLICE

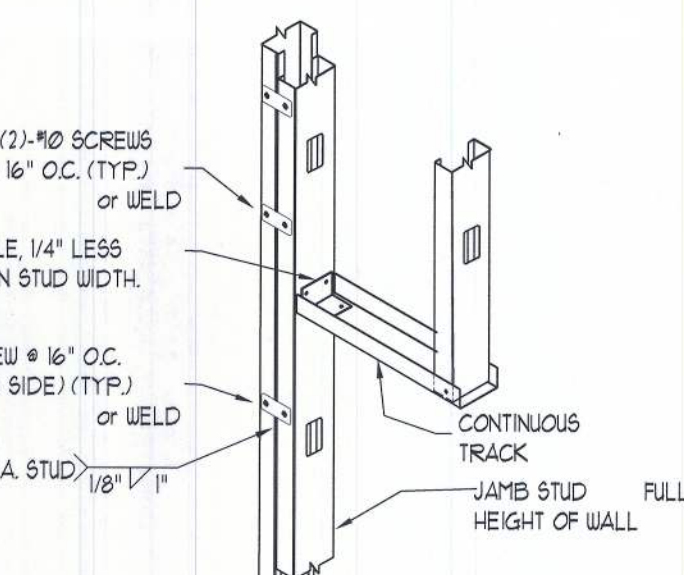


### TYPICAL STUD TO TRACK CONNECTIONS

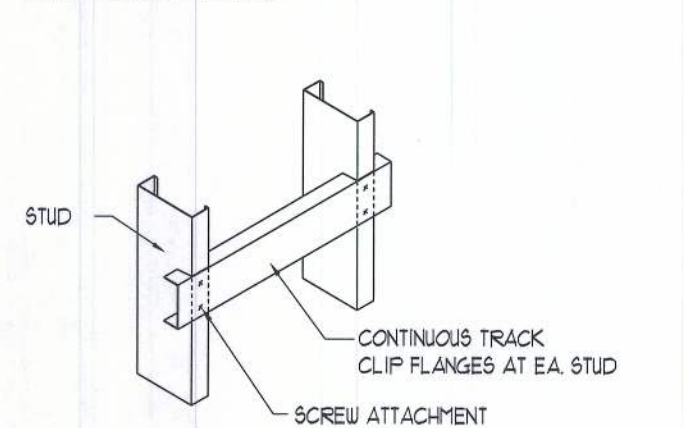
## Metal Stud DETAILS

SCALE: NONE

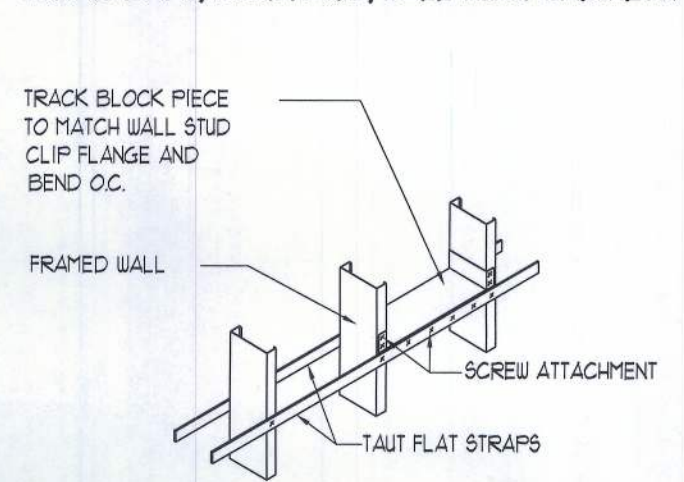
NOTE!  
ALL METAL STUDS IN AXIAL LOAD APPLICATIONS SHALL BE 3588W18 MINIMUM, w/ MATCHING TRACK. ALL WELDED JOINTS



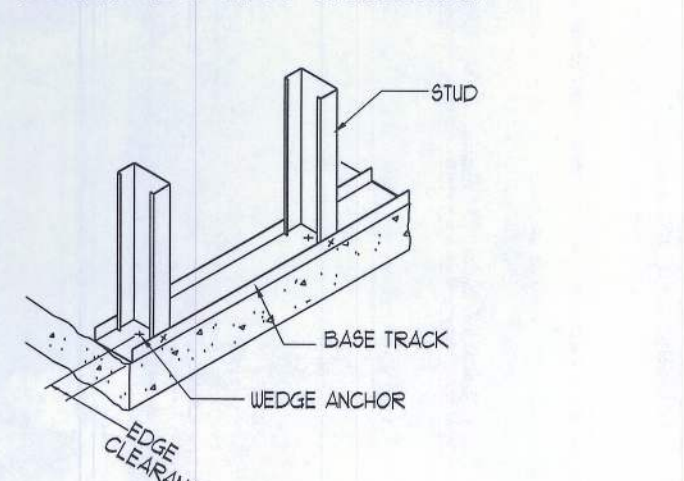
### JAMB STUD DETAIL



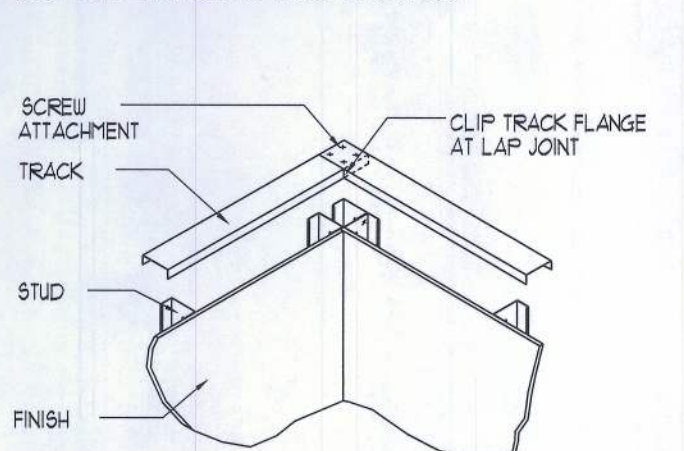
### BACKING - CLIPPED TRACK - HYV. LOADED (GRAB BARS, HANDRAILS, WALL HUNG CABINETS)



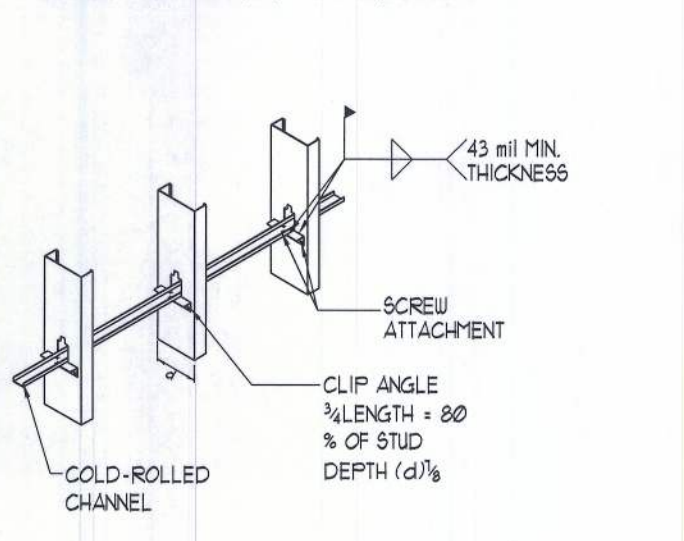
### BRIDGING DOUBLE FLAT STRAP W/BLOCKING



### BOTTOM TRACK WEDGE ANCHOR

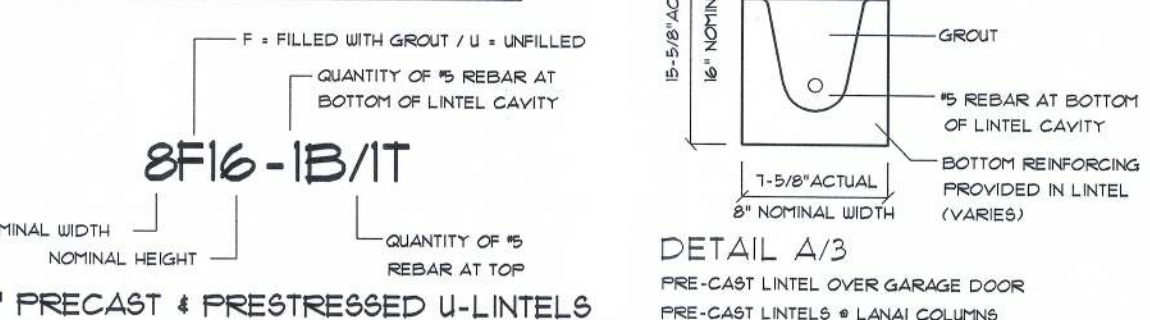


### CORNER TRACK LAP CONNECTION



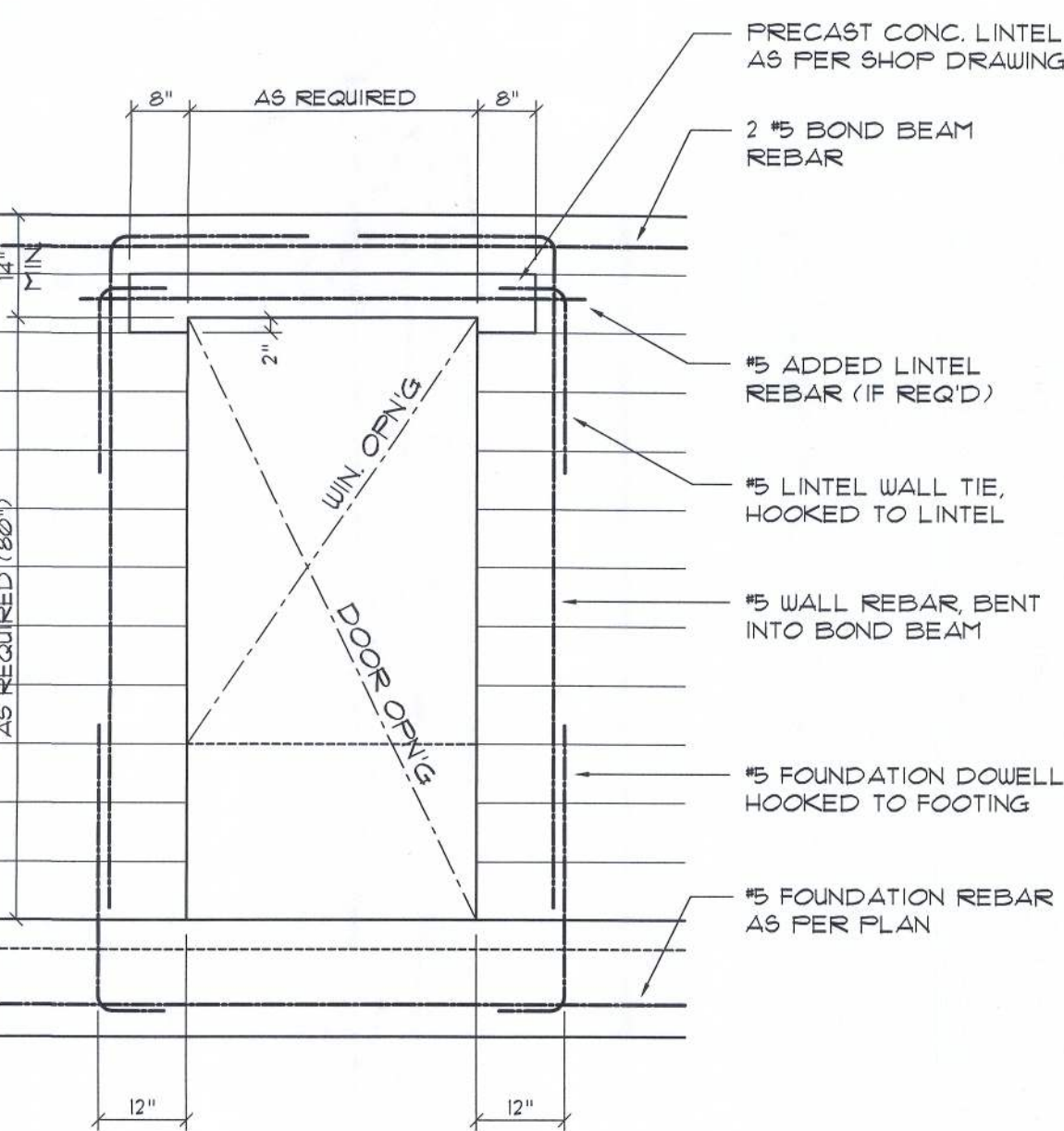
### BRIDGING COLD-ROLLED CHANNEL W/CLIP ANGLE

## TYPE DESIGNATION



		GRAVITY											
MARK	LENGTH	TYPE	8UB	8F8-1B	8F12-1B	8F16-1B	8F20-1B	8F24-1B	8F28-1B	8F32-1B	8F36-1B	8F40-1B	8F44-1B
L1	2'-10" (34")	PRECAST	2302	3166	4413	6039	7536	9004	10472	11936	13400	14864	16328
L2	3'-6" (42")	PRECAST	2302	3166	4413	6039	7536	9004	10472	11936	13400	14864	16328
L3	4'-0" (48")	PRECAST	2078	2329	2436	2461	2438	2410	2384	2358	2332	2306	2280
L4	4'-6" (54")	PRECAST	1651	1781	1913	2051	2181	2311	2441	2571	2701	2831	2961
L5	5'-0" (60")	PRECAST	184	1920	1999	2079	2159	2239	2319	2399	2479	2559	2639
L6	5'-6" (66")	PRECAST	912	1059	1109	1159	1209	1259	1309	1359	1409	1459	1509
L7	6'-0" (72")	PRECAST	931	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539
L8	7'-0" (84")	PRECAST	761	919	969	1019	1069	1119	1169	1219	1269	1319	1369
L9	8'-0" (96")	PRECAST	513	671	711	751	791	831	871	911	951	991	1031
L10	10'-0" (120")	PRECAST	456	614	654	694	734	774	814	854	894	934	974
L11	11'-0" (132")	PRECAST	445	603	643	683	723	763	803	843	883	923	963
L12	12'-0" (144")	PRECAST	414	572	612	652	692	732	772	812	852	892	932
L13	13'-0" (156")	PRECAST	362	520	560	600	640	680	720	760	800	840	880
L14	14'-0" (168")	PRECAST	338	496	536	576	616	656	696	736	776	816	856
L15	14'-0" (168")	PRESTRESSED	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
L16	15'-0" (180")	PRESTRESSED	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
L17	17'-0" (204")	PRESTRESSED	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
L18	19'-0" (228")	PRESTRESSED	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
L19	21'-0" (252")	PRESTRESSED	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
L20	22'-0" (264")	PRESTRESSED	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
L21	24'-0" (288")	PRESTRESSED	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

NOTE!  
ALL BLOCK CELLS CONTAINING VERTICAL REINFORCING, SHALL BE SOLIDLY FILLED WITH CONCRETE - SEE GENERAL NOTES



## Typical Door/Window Opening Reinforcing DETAIL

SCALE: 1/2" = 1'-0"

NOTE!  
REFER TO GENERAL NOTES FOR LAP SPLICE AND HOOK MINIMUM LENGTH/SIZE - ALL PER ACI 318-LATEST

## STRUCTURAL DETAILS & NOTES

**NICHOLAS PAUL GEISLER ARCHITECT**  
N.C.A.P.B. Certified  
1758 NW Brown Road  
386/365-4355  
1972-2011  
N.P. Geisler Architect  
AR0007005

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**DOLLAR GENERAL**  
LAKE CITY, FLORIDA  
COUNTY ROAD 247  
STORE Nr. 12851  
2010 PROTOTYPE - PLAN "C" - 9,281 S.F.

DATE  
11 FEB 2011  
SHEET NUMBER  
**S4b.C**