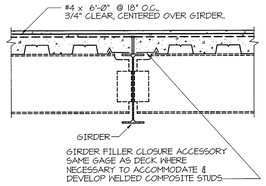
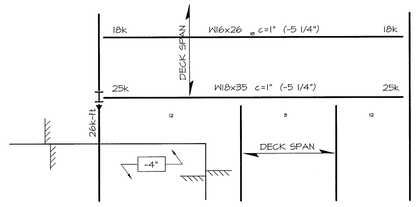
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



TYP SLAB REINFORCING AT GIRDERS scale | 15



W16x26 : BEAM SIZE
: NO. OF WELDED HEADED STUDS ON BEAM
: NO. OF WELDED HEADED STUDS ON GIRDER BETWEEN INTERSECTING BEAMS
c=1" : CAMBER IN BEAM AT MIDPOINT
(-5 1/4") : TOP OF STEEL ELEVATION RELATIVE TO FINISH FLOOR OR ROOF
18k : BEAM END REACTION (kips) FOR CONNECTION DESIGN.
26k-ft : MOMENT CONNECTION. DESIGN FOR SHEAR AND MOMENT VALUE SHOWN.
-4" : DEPTH BELOW FINISH FLOOR OF STRUCTURAL ROUGH POUR AT DEPRESSED AREAS.
: PERIMETER OF DEPRESSED AREAS.
: DECK SPAN DIRECTION

NOTE: EXCEPT AS OTHERWISE SHOWN OR NOTED ON STRUCTURAL DRAWINGS, THE ABOVE APPLIES TO THE STRUCTURAL FRAMING SHOWN ON PLANS.

STRUCTURAL FRAMING LEGEND NTS | 12

COLD FORMED METAL FRAMING LEGEND

(DESIGNATIONS PER 1996 AISI SPECIFICATION FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS)

STRUCTURAL MEMBER EXAMPLE

3625162 - 43
362 = MEMBER DEPTH
S = STUD DESIGNATION (T = TRACK DESIGNATION)
162 = FLANGE WIDTH
43 = MEMBER GAUGE

MEMBER DEPTH KEY

162 = 1 5/8"	800 = 8"
250 = 2 1/2"	925 = 9 1/4"
362 = 3 5/8"	1000 = 10"
400 = 4"	1150 = 11 1/2"
550 = 5 1/2"	1200 = 12"
600 = 6"	1350 = 13 1/2"
725 = 7 1/4"	1400 = 14"

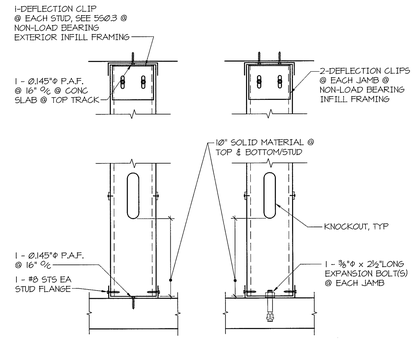
FLANGE WIDTH KEY

125 = 1 1/4"	200 = 2"
137 = 1 3/8"	250 = 2 1/2"
162 = 1 5/8"	

MEMBER GAUGE KEY

27 = 22 GA.	54 = 16 GA.
33 = 20 GA.	68 = 14 GA.
43 = 18 GA.	97 = 12 GA.

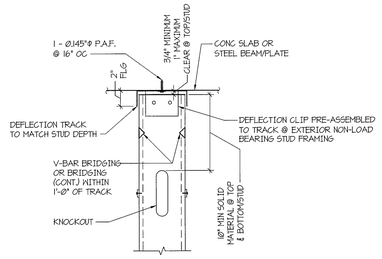
COLD FORMED MTL FRMG LEGEND NTS | 9



TYPICAL CONNECTION @ FRAMING

TYPICAL CONNECTION @ EXTERIOR WALL JAMB

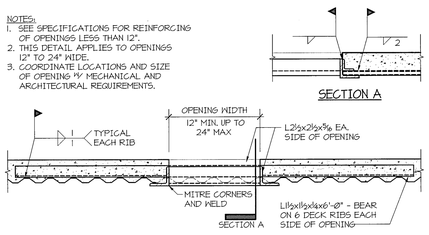
TYP STUD & JAMB STUD CONNECTIONS NTS | 6



TYPICAL DEEP LEG DEFLECTION TRACK

TYP DEFLECTION TRACK DETAIL NTS | 3

NOTES:
1. SEE SPECIFICATIONS FOR REINFORCING OF OPENINGS LESS THAN 12".
2. THIS DETAIL APPLIES TO OPENINGS 12" TO 24" WIDE.
3. COORDINATE LOCATIONS AND SIZE OF OPENING W/ MECHANICAL AND ARCHITECTURAL REQUIREMENTS.



TYP OPNG IN DECK & SLAB (12" TO 24") NTS | 14

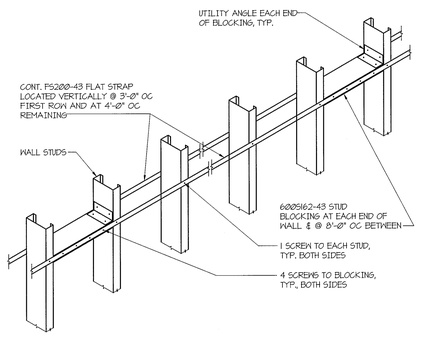
NON-LOAD BEARING WALL OPENING SCHED NTS | 11

COLD FORMED METAL OPENING FRAMING SCHEDULE AT EXTERIOR NON-LOAD BEARING INFILL WALLS

WALL DEPTH	OPENING WIDTH	JAMB	HEAD	SILL
6"	Ø to 4'-Ø"	1 - 600S*-* JACK 1 - 600S*-* FULL HEIGHT	2 - 3625162 - 43 2 - 600T125 - 54	1 - 600T125 - 54
6"	4'-1" to 8'-Ø"	1 - 600S*-* JACK 2 - 600S*-* FULL HEIGHT	2 - 600S162 - 54 2 - 600T125 - 54	1 - 600S162 - 43 2 - 600T125 -54

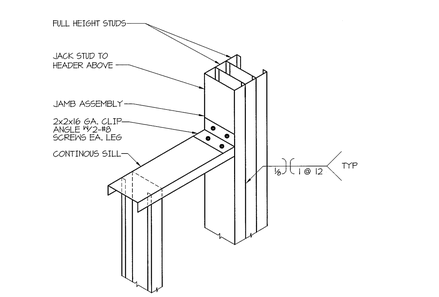
NOTE:
1. ALL HEADERS SHALL BE AS NOTED ABOVE, UNLESS NOTED OTHERWISE ON PLANS.
2. ALL HEADERS REQUIRE WEB STIFFENERS AT BEARING POINTS.
3. SEE 750.4 FOR COLD FORMED METAL FRAMING LEGEND.
4. ALL HEADERS ARE DESIGNED TO SUPPORT WALL HEIGHT ONLY.
5. * - STUD FLANGE WIDTH AND THICKNESS SHALL MATCH ADJACENT WALL STUDS.

TYP BRIDGING @ METAL STUD WALL NTS | 8

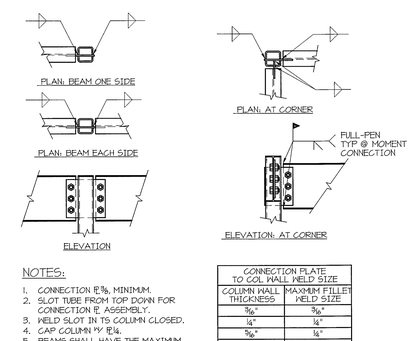


NOTES:
1. CONTRACTOR COORDINATE VERTICAL LOCATION OF BRIDGING TO AVOID INTERFERANCE WITH MECHANICAL, ELECTRICAL OR PLUMBING COMPONENTS, BUT NOT TO EXCEED MAXIMUM VERTICAL SPACING NOTED ABOVE.

TYP SILL DETAIL @ METAL STUD WALL NTS | 5



TYP HEADER DETAIL NTS | 4

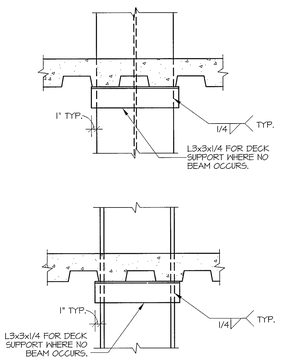


NOTES:
1. CONNECTION PL⅜, MINIMUM.
2. SLOT TUBE FROM TOP DOWN FOR CONNECTION PL ASSEMBLY.
3. WELD SLOT IN TS COLUMN CLOSED.
4. CAP COLUMN W/ PL¼.
5. BEAMS SHALL HAVE THE MAXIMUM NUMBER OF BOLT ROWS POSSIBLE W/ 3" PITCH.
6. FACTORED BEAM END REACTIONS LESS THAN 5Ø KIPS MAY USE STANDARD SHEAR TAB WELDED TO HSS COLUMN FACE.

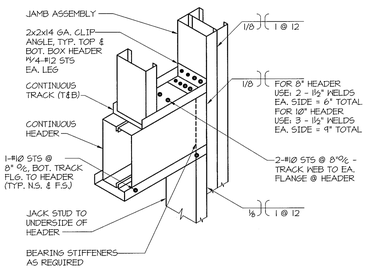
CONNECTION PLATE TO COL WALL WELD SIZE	
COLUMN WALL THICKNESS	MAXIMUM FILLET WELD SIZE
3/16"	3/16"
¼"	¼"
5/16"	¼"
⅜"	¼"
½"	¼"

BEAM TO HSS COL CONNECTIONS NTS | 2

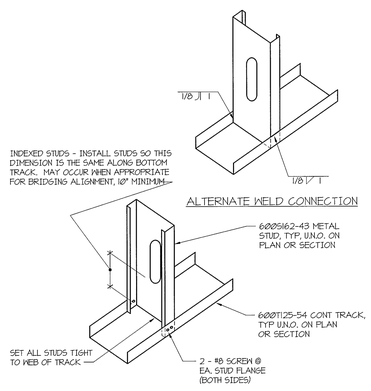
TYP DECK SUPPORT AT COLS W/O BEAMS NTS | 13



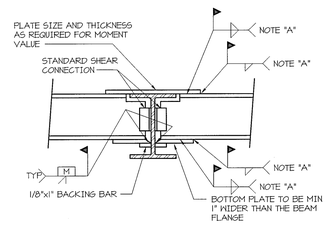
TYPICAL BOX HEADER DETAIL NTS | 10



TYP STUD-TRACK CONN @ STUD WALL NTS | 7

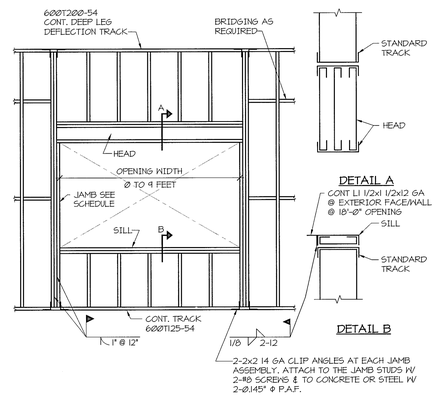


TYP MOMENT CONN BEAM TO BEAM NTS | 1



NOTE "A": WELD AS REQUIRED FOR MOMENT VALUE.

SEE PLAN FOR DESIGN MOMENT
BEAM TO BEAM



TYP DETAILS AND SCHEDULES

CONSULTANTS:

ARCHITECT/EDINGEERS:

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

ANDERSON & ASSOCIATES, INC.
Professional Design Services
www.andassoc.com
100 Ashleigh Dr.
Blacksburg, VA 24060
540-552-5592

COMMONWEALTH OF VIRGINIA TYE CAMPBELL 14694 PROFESSIONAL ENGINEER

Approved: Project Director

Project Title: Adult Day Care Building
VA Medical Center
Comm No. 10110.00

Location: Beckley, West Virginia

Date: 08/05/2011 | Checked: CMF | Drawn: PJW

Project Number: VA246-P-0568

Building Number: -

Drawing Number: S0.4
Dwg. 15 of 77

Office of Construction and Facilities Management
Department of Veterans Affairs

Revisions: | Date

VA FORM 08-6231