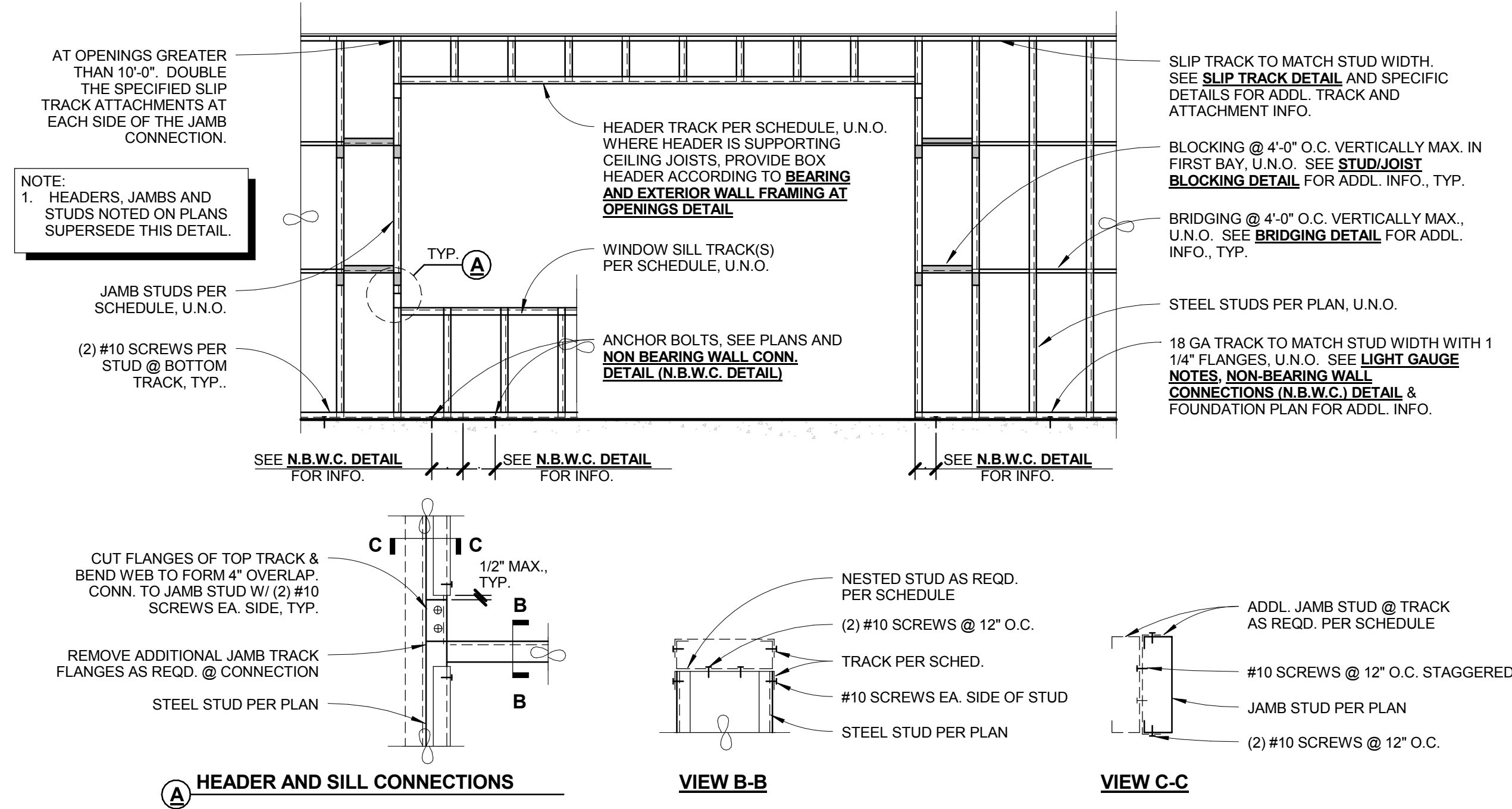


1. ALL MEMBERS SHALL BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION, IN ACCORDANCE WITH THE LATEST AMERICAN IRON AND STEEL INSTITUTE (A.I.S.I.) SPECIFICATIONS AND THE LATEST AMERICAN INSTITUTE OF STEEL STRUCTURAL MEMBERS INCLUDING THE LATEST SUPPLEMENTS (A.I.S.I.-I.N.S.).
2. ALL GALVANIZED STUDS, TRACKS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE LATEST A.I.S.I.-I.N.S. STANDARD.
3. ALL STEEL MEMBERS SHALL HAVE PHYSICAL MARKING AND IDENTIFICATION NUMBERS AS REQUIRED BY A.S.T.M. C645 AND A.S.T.M. C695. THESE MARKINGS MUST INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING INFORMATION: DEPTH, FLANGE WIDTH, MINIMUM STEEL THICKNESS, MANUFACTURER DESIGNATION, STEEL YIELD STRENGTH AND PROTECTIVE COATING WEIGHT.
4. STRUCTURAL STEEL FRAMING MEMBERS MUST MEET THE PHYSICAL REQUIREMENTS OF A.S.T.M. C695, THE INSTALLATION REQUIREMENTS OF A.S.T.M. C1007 AND THE MINIMUM COATING REQUIREMENTS OF A.S.T.M. A653 COATING DESIGNATION G-40.
5. NON-STRUCTURAL STEEL FRAMING MEMBERS MUST MEET THE PHYSICAL REQUIREMENTS OF A.S.T.M. C645, THE INSTALLATION REQUIREMENTS OF A.S.T.M. C754 AND THE MINIMUM COATING REQUIREMENTS OF A.S.T.M. A653 COATING DESIGNATION G-40.
6. STEEL SHALL BE A.S.T.M. A1003, GRADE 50 FOR 12, 14, AND 16 GAUGE SECTIONS, AND A.S.T.M. A1003, GRADE 50 FOR 18 AND HIGHER GAUGE SECTIONS.
7. PROVIDE STEEL MEMBERS WITH SECTION PROPERTIES EQUAL TO OR GREATER THAN SPECIFIED. THE STEEL SHALL BE PROVIDED WITH A MINIMUM TENSILE STRENGTH (S.S.M.A) CATEGORY, I.C.B.O.F. 9R 4943P, FOR THE MEMBER SIZES DESIGNATED ON THE PLANS.
8. THE CONTRACTOR MUST PROVIDE A MATERIAL SUBMITTAL INDICATING THE STEEL, GALVAL, SECTIONAL PROPERTIES AND MATERIALS TO BE USED TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE PROTECTION FOR ANY SUBSTITUTIONS.
9. BENT, KINKED, DISTORTED, CORRODED OR DAMAGED SECTIONS SHALL NOT BE USED.
10. STUDS MAY HAVE CUTOUTS (OR KNOCKOUTS). CUTOUTS MAY BE A MAXIMUM DIMENSION OF 1/2" WIDE, 1/4" LONG AND HAVE A MINIMUM SPACING OF 12" O.C. EXCEPT CUTOUTS FOR 1" AND 2" MUST NOT EXCEED A WIDTH OF 3/4". CUTOUTS SHALL NOT BE CLOSER THAN 12" FROM MEMBER ENDS.
11. ALL WELDING TO BE PERFORMED BY LIGHT GAUGE WELDERS CERTIFIED FOR ALL APPROPRIATE DIRECTIONS COMPLYING WITH AWS D1.3. WELDING RODS SHALL CONFORM TO THE FOLLOWING:

- 18 GA. AND LIGHTER	E60XX
- 16 GA. AND HEAVIER	E70XX OR E6013
- LIGHT GAUGE TO STRUCTURAL STEEL	E70XX LOW HYDROGEN
12. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT.
13. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED.
14. LATERAL BRIDGING FOR STEEL STUD IS REQUIRED WHEN WALL BOARD, INSTALLED IN ACCORDANCE WITH A.I.S.I.-I.N.S. REQUIREMENTS, DOES NOT CONTINUE FULL HEIGHT ON BOTH SIDES OF STUDS. BRIDGING SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR TYPICAL **BRIDGING DETAILS**. ALL EXTERIOR WALLS SHALL HAVE BRIDGING PER TYPE. **BRIDGING DETAILS**
15. SCREWS SHALL BE SELF-DRILLING/SELF-TAPPING STEEL SCREWS INSTALLED IN ACCORDANCE WITH A.I.S.I.-I.N.S.. SCREWS SHALL HAVE SUFFICIENT LENGTH TO ENSURE MINIMUM 3/4" FULL THREADS IN ALL MATERIALS. SCREWS SHALL BE OF LIGHT GAUGE MATERIALS. SCREWS SHALL HAVE A MINIMUM OF 1" EDGES/SPACING DISTANCE. THE MINIMUM SCREW SIZE AND DIAMETER SHALL BE #16" AND SCREW SIZES SHALL CONFORM TO THE FOLLOWING U.N. O.:

B1	SLIP TRACK W/ DRIFT FOR NON-BEARING	B2	IN-FILL AT STEEL BEAM WITH LT. GAUGE STEEL	B4	NON-BEARING WALL AT BEAM FOR LT. GA. STL.	B6	NON-BEARING WALL AT SLOPED DECK
B1	SS107 NOT TO SCALE	B2	SS107 NOT TO SCALE	B4	SS107 NOT TO SCALE	B6	SS107 NOT TO SCALE

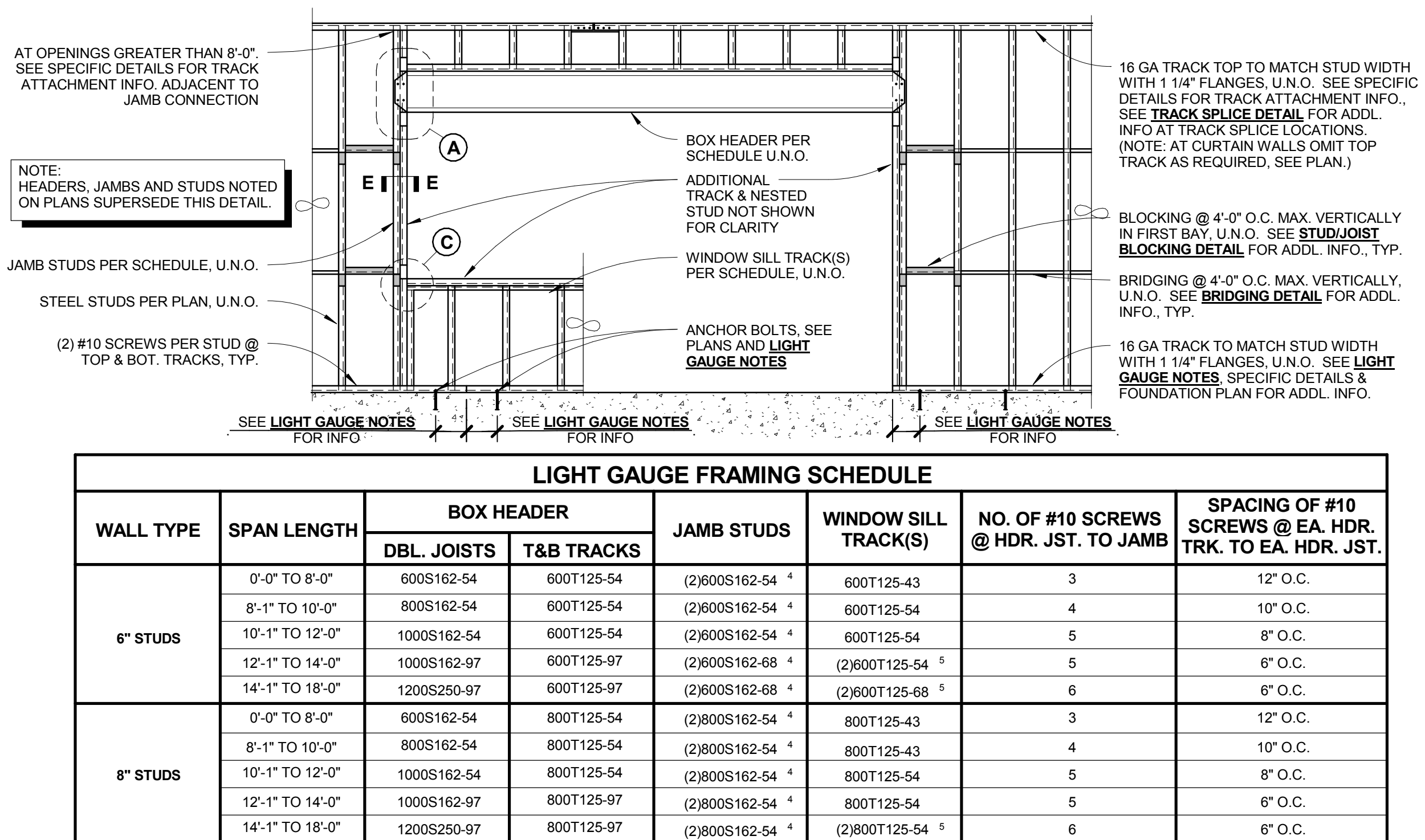


ALLOWABLE STUD HEIGHTS ¹							
STUD MEMBER	INTERIOR (5 PSF LAT) NON-LOAD BEARING BRITTLE FINISHES ²				INTERIOR (5 PSF LAT) NON-LOAD BEARING FLEXIBLE FINISHES ³		
	12" O.C.	16" O.C.	24" O.C.	24" O.C.	12" O.C.	16" O.C.	24" O.C.
400S125-27	17'-10"	16'-2"	14'-1"		19'-11"	17'-3"	14'-1"
400S125-30	18'-5"	16'-8"	14'-7"		21'-5"	18'-6"	15'-2"
600S125-27	24'-4"	22'-11"	18'-11 1/2"		26'-8 1/2"	23'-2"	18'-11 1/2"
600S125-30	25'-2"	22'-11"	20'-8"		28'-10"	24'-11"	20'-4"
800S125-43	36'-1"	32'-9"	28'-8"		45'-1"	39'-1"	31'-11"

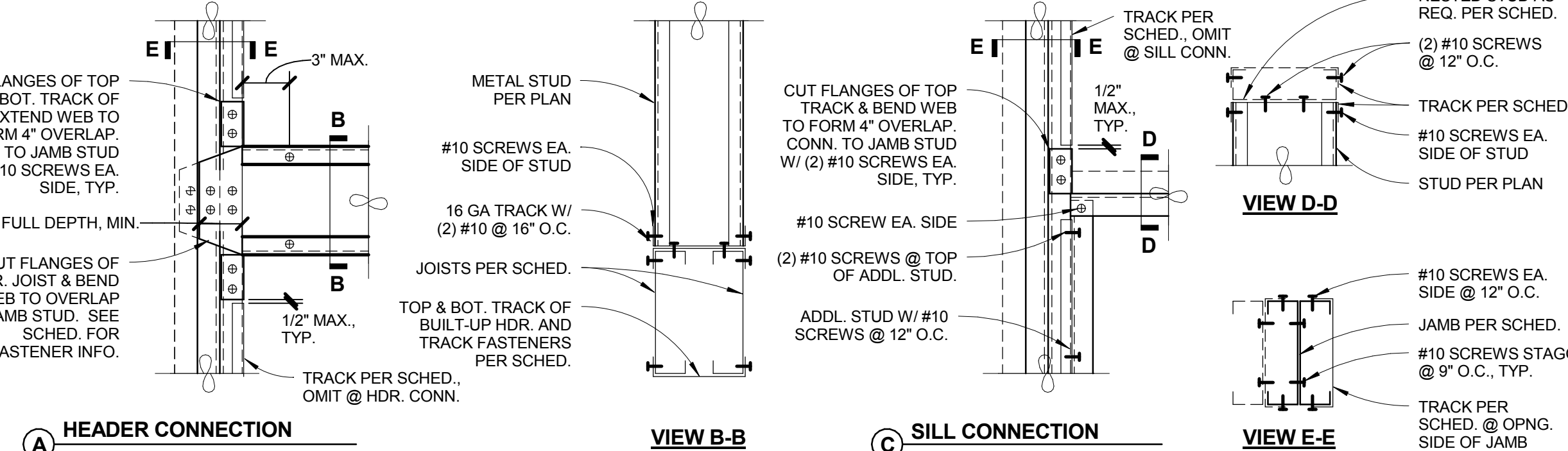
1. THIS INFORMATION IS PER ICBO 4943P AS REVISED IN 2011 FOR THE ABOVE REFERENCED STUDS. ALLOWABLE HEIGHTS ARE FROM THE SSMA 2006 IBC COMPLIANT CATALOGUE.
2. BRITTLE FINISHES INCLUDE WALLS WITH STUCCO OR CEMENT PLASTER ON BOTH SIDES OR ONE SIDE & GYPSUM WALL BOARD ON OTHER SIDE. DEFLECTION LIMIT = $L/240$.
3. FLEXIBLE FINISHES INCLUDE WALLS WITH GYPSUM WALLBOARD OR WOOD SIDING ON BOTH SIDES. DEFLECTION LIMIT = $L/120$.

LIGHT GAUGE FRAMING SCHEDULE ¹				
WALL TYPE	SPAN LENGTH	HEADER TRACK	JAMB STUDS	WINDOW SILL TRACK(S)
4" STUD S	0'-0" TO 6'-0"	400T125-27	400S162-54	400T125-27
	6'-0" TO 8'-0"	400T125-33	(2)400S162-33 ²	400T125-27
	8'-1" TO 10'-0"	400T125-54	(2)400S162-33 ²	400T125-27
	10'-1" TO 14'-0"	(3)400T125-43 ³	(2)400S162-33 ²	400T125-54
	0'-0" TO 6'-0"	600T125-30	600S162-54	600T125-27
6" STUD + S	6'-1" TO 8'-0"	600T125-43	(2)600S162-33 ²	600T125-27
	10'-0" TO 12'-0"	600T125-54	(2)600S162-33 ²	600T125-30
	12'-1" TO 14'-0"	(2)600T125-43 ³	(2)600S162-43 ³	600T125-33
	14'-1" TO 18'-0"	(2)600T125-54 ³	(2)600S162-54 ³	600T125-54

1. LIMITATIONS: 1) 5 PSF MAX. OUT-OF-PLANE LOAD (ASD) TO HDR, JAMB AND SILL. 2) 15'-0" MAX WALL HT. FOR 3' 5/8" AND 4" STUDS. 3) 22'-0" MAX WALL HT. FOR 6" STUDS. 4) DEFLECTION LIMIT = $L/240$ OUT-OF-PLANE.
2. ADDITIONAL TRACK REQUIRED. TRACK MUST HAVE 125 FLANGE AND MATCH STUD WIDTH AND GAUGE. SEE DETAILS FOR PLACEMENT.
3. NESTED STUD REQUIRED IN UPPER TRACK. NESTED STUD MUST HAVE 162 FLANGE AND MATCH TRACK WIDTH AND GAUGE.
4. WHERE 8" STUDS ARE REQUIRED, USE FLANGE SIZES & GAUGES SPECIFIED FOR 6" STUDS IN CHART.

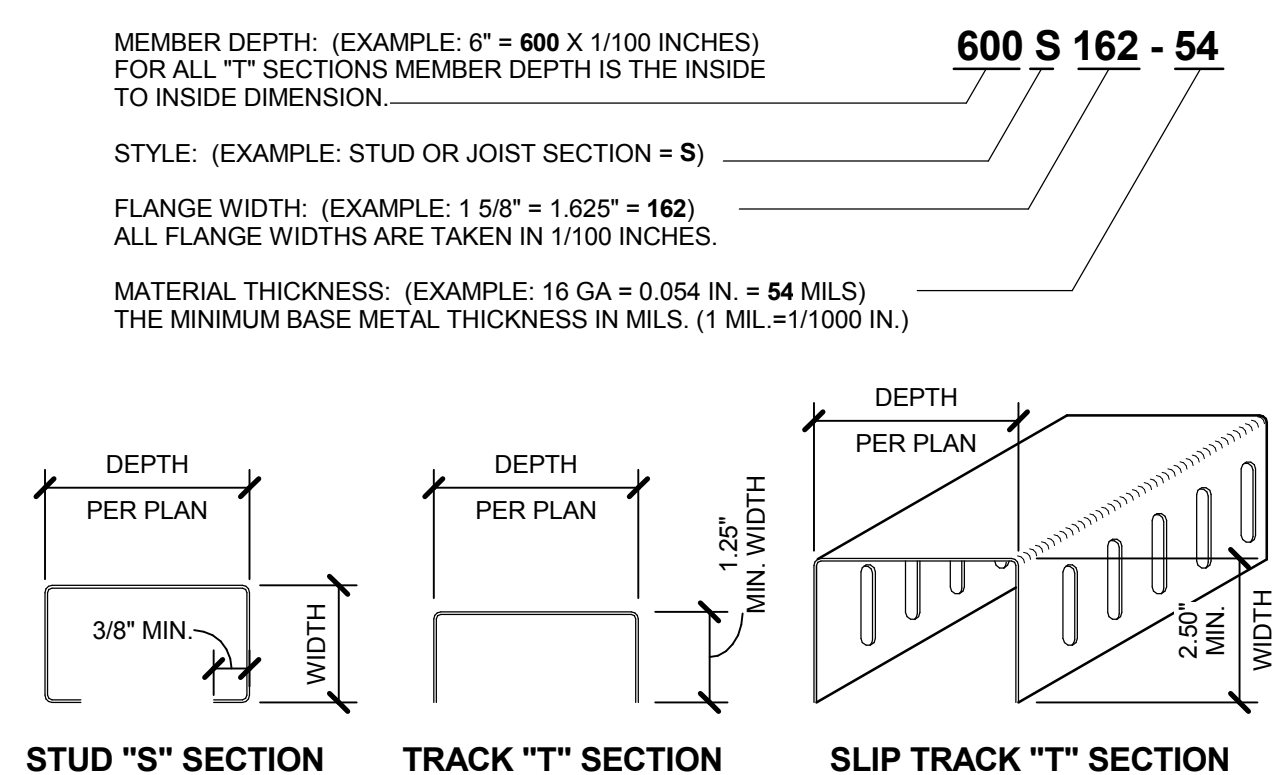


1. LIMITATIONS: 1) 450 PLF MAX. VERTICAL LOAD (ASD) TO HDR. 2) 20 PSF MAX. OUT-OF-PLANE LOAD (ASD) TO HDR, JAMB AND SILL. 3) 14'-0" MAX WALL HT.
2. DEFLECTION LIMITATIONS: 1) L/360 VERTICAL. 2) L/240 OUT-OF-PLANE.
3. TWO TRACKS REQUIRED. TRACKS MUST HAVE 125 FLANGE AND MATCH STUD WIDTH AND GAUGE. SEE DETAILS FOR PLACEMENT.
4. ONE TRACK REQUIRED. TRACK MUST HAVE 125 FLANGE AND MATCH STUD WIDTH AND GAUGE. SEE DETAILS FOR PLACEMENT.
5. NESTED STUD REQUIRED IN UPPER TRACK. NESTED STUD MUST HAVE 162 FLANGE AND MATCH TRACK WIDTH AND GAUGE.



METAL TO METAL FASTENER SIZE	
METAL THICKNESS 'T'	SCREW TYPE
T < 12 GA.	#10 W/ #3 POINT
12 GA. < T < 3/16"	#12 W/ #3 POINT
3/16" < T < 5/16"	1/4" DIA. W/ #4 POINT

16. LIGHT GAUGE STEEL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WE STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT BEARING, AND OTHER ACCESSORIES AS SPECIFIED BY THE MANUFACTURER AND APPROVED BY AND, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS BEING USED.
17. STEEL TRACKS THAT OCCUR UNDER ALL EXTERIOR CURTAIN WALLS, BEARING WALLS AND SHEAR WALLS SHALL BE BOLTED TO MASONRY OR CONCRETE WITH 5/8"Ø x 12" BOLTS SPACED NOT MORE THAN 5'-0" ON CENTER, WITH A MIN. OF 2 BOLTS FOR EACH PIECE OF TRACK. U.N.O. USE STANDARD STEEL PLATE WASHERS. EACH BOLT AND NUT SHALL BE GALVANNEAL.
18. ALL ANCHOR BOLTS IN STEEL TRACKS SHALL BE 4 INCH MINIMUM AND 12 INCH MAXIMUM TRACK LENGTH. TRACKS SHALL BE MINIMUM 12 INCH MINIMUM EMBEDMENT INTO CONCRETE OR MASONRY. ANY LOCATION WHERE A HOLE OR NOTCH OCCURS THROUGH A TRACK FLANGE, TRACK SHALL HAVE AN ADDITIONAL ANCHOR BOLT PLACED 4 INCHES TO 12 INCHES ON EACH SIDE OF THE HOLE OR NOTCH.
19. ALL ANCHOR BOLTS SHALL BE MACHINE MADE TYPE F1554 GRADE 36 U.N.O. BOLTS WITH UPSET THREADS ARE NOT PERMITTED.
20. ALL STEEL FRAMING MEMBERS SHALL BE DESIGNATED ON PLANS WITH THE S.M.A. STUD AND TRACK SECTION NOMENCLATURE AS DESCRIBED BELOW:



F1	NON-BEARING AND INTERIOR WALL FRAMING AT OPENINGS		F4	BEARING AND EXTERIOR WALL FRAMING AT OPENINGS		F8	LIGHT GAUGE STEEL NOTES
S8107	NOT TO SCALE		S8107	NOT TO SCALE		S8107	NOT TO SCALE

		CONSULTANTS:  BROOKS-RANSOM ASSOCIATES STRUCTURAL ENGINEERS CIVIL ENGINEERS WWW.BROOKSRANSOM.COM 7415 N. PALM AVE., SUITE 100 FRESNO, CALIFORNIA 93711 PHONE: 559-449-8404 FAX: 559-449-8404 <small>11008.02</small>				ARCHITECT/ENGINEERS:  HMC Architects 1827 E. Fir Avenue / Studio 103 / Fresno, CA 93720 T 559 322 2444 / www.hmcarchitects.com HMC PROJECT #1393002-000		Drawing Title TYPICAL LIGHT GAUGE NOTES AND DETAILS Approved: Project Director		Project Title Mental Health Psychosocial Rehab Recovery and Health Care for Homeless Veteran Center Location 2615 E. CLINTON AVE, FRESNO, CA 93703 Date 08/11/2014		Project Number 570-217 Building Number 37 Drawing Number SS107 <small>Dwg. 88 of 197</small>		Office of Construction and Facilities Management:  Department of Veterans Affairs	
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