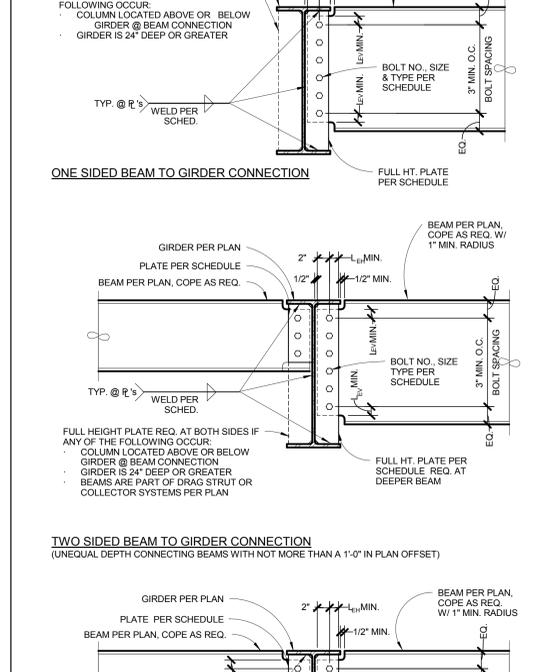
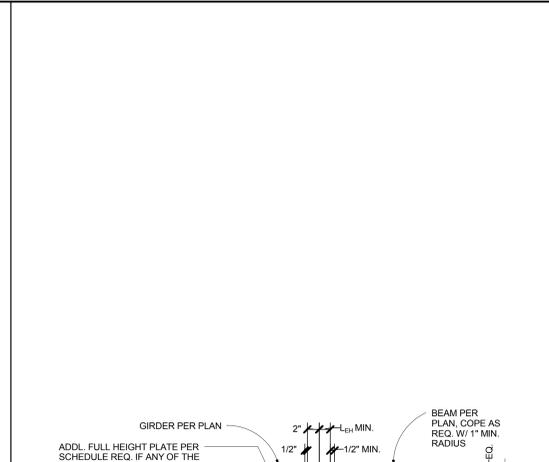
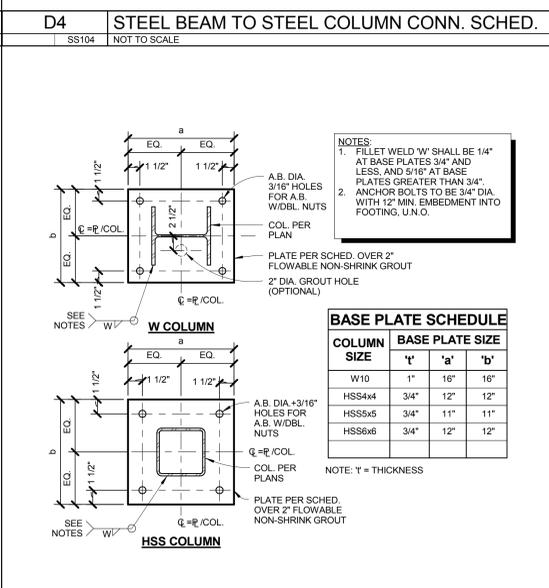


CONNECTION SCHEDULE

BEAM SIZE	PLATE	FILLET WELD SIZE	BOLTS		DIMENSIONS		
			NO.	SIZE	TYPE	L _{EH}	L _{EV}
W8x / C8x	3/8	1/4	(2)	3/4"	A325N	1 1/2"	1 1/2"
W10x / C10x	3/8	1/4	(2)	3/4"	A325N	1 1/2"	1 1/2"
W12x / C12x	3/8	1/4	(3)	3/4"	A325N	1 1/2"	1 1/2"
W14x / C15x	3/8	1/4	(3)	3/4"	A325N	1 1/2"	1 1/2"
W16x	3/8	1/4	(4)	3/4"	A325N	1 1/2"	1 1/2"
W18x	3/8	1/4	(4)	1"	A325N	2"	2"
W21x	1/2	5/16	(5)	1"	A325N	2"	2"
W24x	1/2	5/16	(6)	1"	A325N	2"	2"
W27x	1/2	5/16	(7)	1"	A325N	2"	2"
W30x	1/2	5/16	(8)	1"	A325N	2"	2"



CONNECTION SCHEDULE

BEAM SIZE	PLATE	FILLET WELD SIZE	BOLTS		DIMENSIONS		
			NO.	SIZE	TYPE	L _{EH}	L _{EV}
W8x / C8x	3/8	1/4	(2)	3/4"	A325N	1 1/2"	1 1/2"
W10x / C10x	3/8	1/4	(2)	3/4"	A325N	1 1/2"	1 1/2"
W12x / C12x	3/8	1/4	(3)	3/4"	A325N	1 1/2"	1 1/2"
W14x / C15x	3/8	1/4	(3)	3/4"	A325N	1 1/2"	1 1/2"
W16x	3/8	1/4	(4)	3/4"	A325N	1 1/2"	1 1/2"
W18x	3/8	1/4	(4)	1"	A325N	2"	2"
W21x	1/2	5/16	(5)	1"	A325N	2"	2"
W24x	1/2	5/16	(6)	1"	A325N	2"	2"
W27x	1/2	5/16	(7)	1"	A325N	2"	2"

- D8 STEEL NOTES**
SS104 NOT TO SCALE
- MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDING" PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
 - ALL BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION WELDS.
 - ALL WELDING OF STRUCTURAL STEEL MEMBERS SHALL BE DONE BY CURRENTLY CERTIFIED WELDERS AND DONE IN CONFORMANCE WITH THE A.I.S.C. AND A.W.S. SPECIFICATIONS. WELDING IS NOT PERMITTED ON MEMBERS SUPPORTING LOADS.
 - WHERE THE CONTRACTOR REQUESTS WELDING TO BE USED IN LIEU OF BOLTED CONNECTIONS, SUCH WELDING SHALL BE DONE ONLY WITH THE ENGINEER'S PRIOR APPROVAL. WHERE EMBEDDED PLATES OCCUR WITH SHEAR TABS, CONTRACTOR HAS OPTION TO FIELD WELD STEEL BEAM TO SHEAR TAB TO FACILITATE ERECTION WITH APPROVAL FROM ENGINEER. EMBEDDED PLATE MAY BE OVERSIZED BY 1" IN EACH DIRECTION TO FACILITATE FIELD WELDING. ANY TESTING AND/OR INSPECTION THE ENGINEER MAY DEEM NECESSARY TO BE ASSURED OF THE QUALITY OF SUCH WELDING, SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
 - A.S.T.M. A325 BOLTS SHALL BE USED UNLESS NOTED OTHERWISE. TWIST-OFF TYPE TENSION-CONTROL A.S.T.M. F1852 BOLT ASSEMBLIES MAY NOT BE SUBSTITUTED FOR A.S.T.M. A325 BOLTS, UNLESS APPROVED BY THE STRUCTURAL ENGINEER. WHERE A.S.T.M. A490 BOLTS ARE SPECIFIED ON THE PLANS TWIST-OFF TYPE TENSION-CONTROL A.S.T.M. F2280 BOLT ASSEMBLIES MAY NOT BE SUBSTITUTED, UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
 - A.S.T.M. F1554 GRADE 36 ANCHOR BOLTS SHALL BE USED UNLESS NOTED OTHERWISE. A.S.T.M. F1554 GRADE 36 BOLTS MAY BE WELDED, WHILE GRADE 55 MAY BE WELDED ONLY IF IT IS ORDERED WITH SUPPLEMENT S1 AND THE CARBON EQUIVALENT FORMULA SPECIFIED IN SECTION S 1.2.1 OF THE A.S.T.M. GRADE 108 BOLTS MAY NOT BE WELDED.
 - A.S.T.M. A563 HEAVY-HEX NUTS SHALL BE USED UNLESS NOTED OTHERWISE. SEE A.S.T.M. A563 FOR THE APPROPRIATE GRADE AND FINISH OF THE NUTS WHICH VARY ACCORDING TO APPLICATION.
 - A.S.T.M. F436 WASHERS SHALL BE USED UNLESS NOTED OTHERWISE. AT SLIP CRITICAL CONNECTIONS A.S.T.M. F959 COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATORS SHALL BE USED UNLESS TWIST-OFF TYPE TENSION-CONTROL BOLT ASSEMBLIES WITH A.S.T.M. F436 WASHERS ARE USED.
 - A.S.T.M. A108 SHEAR STUD CONNECTORS SHALL BE USED UNLESS NOTED OTHERWISE. THE MECHANICAL REQUIREMENTS MUST MEET A.W.S. D1.1 TABLE 7.1 FOR TYPE B SHEAR STUDS CONNECTORS. (F_y=50 ksi, F_u=65 ksi)
 - HOLES PUNCHED OR DRILLED IN BEAMS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWING: HOLES FOR BOLTS SHALL BE 1/16" LARGER THAN THE NOMINAL DIAMETER OF THE BOLT WHERE CONNECTION IS OF SHEAR TYPE, AND 3/16" LARGER WHERE CONNECTION IS OF BEARING TYPE ON CONCRETE OR MASONRY.
 - ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL SHALL RECEIVE ONE SHOP COAT OF RED OXIDE ZINC CHROMATE OR APPROVED EQUAL BASE.
 - ALL STEEL MEMBERS AND THEIR CONNECTIONS, EXPOSED TO EARTH OR WEATHER SHALL BE HOT DIPPED GALVANIZED, UNLESS NOTED OTHERWISE.
 - ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING A.I.S.C. STANDARDS:
 - W (WIDE FLANGE) AND WT SHAPES SHALL BE A.S.T.M. A992 (F_y=50 ksi, F_u=65 ksi)
 - M, MT, S AND ST SHAPES SHALL BE A.S.T.M. A36 (F_y=36 ksi, F_u=58 ksi)
 - CHANNELS, ANGLES, PLATES, 1/2" THICK OR LESS AND MISCELLANEOUS STEEL SHALL BE A.S.T.M. A36 (F_y=36 ksi, F_u=58 ksi)
 - SHALL BE A.S.T.M. A36 (F_y=36 ksi, F_u=58 ksi)
 - HP SHAPES SHALL BE A.S.T.M. A572 (F_y=50 ksi, F_u=65 ksi)
 - RECTANGULAR AND SQUARE HSS SHALL BE A.S.T.M. A500 GRADE B (F_y=46 ksi, F_u=58 ksi)
 - ROUND HSS SHALL BE A.S.T.M. A500 GRADE B (F_y=42 ksi, F_u=58 ksi)
 - PIPE SHALL CONFORM TO A.S.T.M. A53 GRADE B (F_y=35 ksi, F_u=60 ksi)
 - ALL ENDS OF EXPOSED STRUCTURAL SHAPES & HOLLOW STRUCTURAL SHAPED STEEL MEMBERS SHALL HAVE 1/4" CAP PLATE WITH PARTIAL PENETRATION WELDS, U.N.O., GRIND SMOOTH, A.E.S.S.
 - ALL STEEL BEAMS SHALL HAVE INSTALLED STANDARD MILL TOLERANCE UP, TYP., U.N.O.
 - FILLER METAL AND WELDING FLUX, E70XX IN ACCORDANCE WITH A.W.S. D1.1-2008.
 - WHERE LATERAL FORCE RESISTING COLUMNS OCCUR, A DOUBLE NUT SHALL BE PROVIDED ABOVE THE BASE PLATE AT ALL THREADED ROD/BOLT LOCATIONS.
 - CONTRACTOR SHALL PROVIDE AN ALLOWANCE EQUAL TO 1% OF THE BID FOR STRUCTURAL STEEL, MISCELLANEOUS IRON AND REINFORCING STEEL TO BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER. UNUSED PORTION TO REVERT TO OWNER UPON COMPLETION OF THE PROJECT.

D1 STEEL DECK SUPPORT AT COLS.
SS104 NOT TO SCALE

F3 SKEWED BEAM TO GIRDER CONNECTION
SS104 NOT TO SCALE

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D4 STEEL BEAM TO STEEL COLUMN CONNECTION SCHEDULE
SS104 NOT TO SCALE

F6 STEEL BEAM TO STEEL GIRDER CONNECTION SCHEDULE
SS104 NOT TO SCALE

Drawing Title
TYPICAL STEEL NOTES AND DETAILS

Approved: Project Director

F8 ARCH'L EXPOSED STRUCT'L STEEL
SS104 NOT TO SCALE

Project Title
Mental Health Psychosocial Rehab Recovery and Health Care for Homeless Veteran Center

Project Number
570-217

Building Number
37

Location
2615 E. CLINTON AVE, FRESNO, CA 93703

Date
08/11/2014

Checked
AL

Drawn
ESB

Drawing Number
SS104

Dwg. 85 of 197

Office of Construction and Facilities Management
Department of Veterans Affairs