



INTELLECTUAL PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND SPECIFICATIONS WITH AMS WILL REMAIN THE PROPERTY OF AMS. THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF ANY BUILDINGS MODULAR OR OTHERWISE, UNLESS AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF AMS OR BY A WRITTEN AGREEMENT WITH AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSIDERED AS PUBLICATION IN VIOLATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24'x40' THRU 120'x40'
HIGH PITCH MODULAR
BUILDINGS

SITE SPECIFIC PROJECT NAME

SHEET TITLE

FORM
DSA-103

MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS OTHERWISE SIGNED BY THE PROGRESS OF RECORD.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 117846
AC/PLS/SS
DATE AUG 7 2018

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
PC 02-115726
AC/PLS/SS
DATE 10-11-2018

PRE-CHECK (PC) DOCUMENT
CODE 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

DRAWN BY: AS NOTED
SCALE: AS NOTED
DATE: 10-11-2018

SHEET NUMBER

D1-02

AUTHORIZED USE: ALL INFORMATION INCLUDED IN ON THIS SHEET (FORM DSA-103) IS FOR THE SOLE PURPOSE OF RECEIVING DSA APPROVAL AND ISSUANCE OF A PC NUMBER. NO OTHER USE IS AUTHORIZED WITHOUT THE EXPRESS WRITTEN CONSENT OF AMERICAN MODULAR SYSTEMS, INC.

Additional Information for PC designs only, not to be added to DSA-103:

INSPECTOR CLASS (minimum requirements)	STOCKPILE	CONSTRUCTION OF PERMANENT/MODULAR OR RELOCATABLE BUILDING	RELOCATION OF CERTIFIED RELOCATABLE BUILDING
Responsible for the Project Inspector and Testing Agency	by the Owner and approved by DSA, A/E of Record and Structural Engineer	In Plant RBIP or Class 1 Site Class 4 for Single Story Site Class 2 for Two-Story	Class 4 for Single Story Class 2 for Two-Story
Cost of the Project Inspector (Title 24, Part 2, Section 43330(d) and Testing Requirements (Title 24, Part 2, Section 43350(b))	by the Owner	by the School District	by the Owner and approved by DSA, A/E of Record and Structural Engineer

HOLLO-BOLT MANUFACTURER'S INSPECTION PROCEDURES

PERIODIC SPECIAL INSPECTION REQUIREMENTS

TO VERIFY CORRECT INSTALLATION INCLUDING USE IN SEISMIC OR WIND LOADING APPLICATIONS IN ACCORDANCE WITH THE 2016 CALIFORNIA BUILDING CODE SECTIONS 1705A.1, 1705A.2, AND 1704A.3 PLEASE REFER TO THE FOLLOWING INSTRUCTIONS

A. INSPECTION PRIOR TO INSTALLATION

- ENSURE THAT THERE ARE NO GAPS BETWEEN THE CONNECTING STEELWORK
- ENSURE THAT THE HOLES ARE ALIGNED AND THAT THE HOLES HAVE THE CORRECT DIAMETER AND SPACING FOR THE CHOSEN HOLLO-BOLT
- THE HOLES MUST BE STANDARD DIAMETER HOLES CONFORMING TO AISC 360 WHERE THE HOLE DIAMETER MUST BE NO GREATER THAN THE SLEEVE OUTER DIAMETER +1/16"
- BURRS IN THE HOLES MUST BE REMOVED BEFORE INSERTION OF THE HOLLO-BOLT

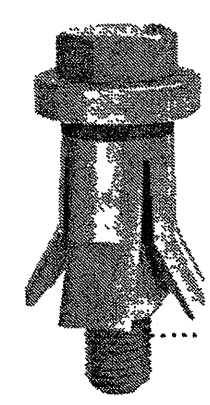
B. INSPECTION DURING INSTALLATION

- ENSURE THAT THE HOLLO-BOLTS ARE INSTALLED AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET
- ENSURE THAT THE TORQUE WRENCH(S) HAS A CURRENT VALID CALIBRATION CERTIFICATE AND IS CALIBRATED ON REGULAR BASIS
- IF USING AIR POWERED WRENCHES TO TIGHTEN THE HOLLO-BOLT, CHECK THAT THE WRENCH IS SET CORRECTLY TO AVOID OVERTIGHTENING THE FINAL TORQUE MUST BE CHECKED WITH A CALIBRATED TORQUE WRENCH
- IF AFTER TIGHTENING THERE IS A GAP EVIDENT BETWEEN THE HOLLO-BOLT AND THE CONTACT SURFACE OF THE CONNECTING ELEMENT THIS MAY INDICATE INCORRECT INSTALLATION. REMOVE AND DISCARD THE HOLLO-BOLT, REALIGN THE CONNECTING STEELWORK AND INSTALL A NEW HOLLO-BOLT AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET
- IF AFTER TIGHTENING THE BOLT HEAD CONTINUES TO TURN THIS MAY BE AN INDICATION OF OVER TIGHTENING, OR IF USING A STAINLESS STEEL HOLLO-BOLT THIS MAY BE DUE TO GALLING, REMOVE AND DISCARD THE HOLLO-BOLT AND INSTALL A NEW HOLLO-BOLT AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET

* GALLING IS A TERM USED WHEN TWO SURFACES SEIZE UP AS A RESULT OF COLD WELDING AND IS COMMON WHEN TIGHTENING STAINLESS STEEL BOLTS

C. INSPECTION AFTER INSTALLATION

- ENSURE THAT THERE ARE NO GAPS BETWEEN THE CONNECTING STEELWORK
- ENSURE THAT THERE ARE NO GAPS BETWEEN THE HOLLO-BOLT AND THE CONTACT SURFACE OF THE CONNECTING ELEMENT
- CHECK THE TIGHTENING TORQUE OF BETWEEN 5-10% OF THE INSTALLED HOLLO-BOLTS CHOSEN AT RANDOM USING A CALIBRATED TORQUE WRENCH



FOOTNOTES

(NOTES APPLY ONLY WHEN TESTS OR INSPECTIONS APPLY TO YOUR PC SUBMITTAL.)

- WAIVER OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.1):
 - VERIFY THAT EITHER CONDITION a) OR b) ARE NOTED IN THE SPECIFICATIONS:
 - CONCRETE PLANT COMPLIES FULLY WITH ASTM C94, SECTION 9 AND 10, AND HAS A CURRENT CERTIFICATION FROM THE "NATIONAL READY MIXED CONCRETE ASSOCIATION" OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.
 - FOR SINGLE-STORY BUILDINGS, COMPRESSIVE STRENGTH: 3500 PSI SPECIFIED
 - DESIGN REQUIREMENTS c) THRU f) ARE MET:
 - AN APPROVED AGENCY OR CERTIFIED TECHNICIAN OF THE TEST LABORATORY SHALL CHECK THE FIRST BATCHING AT START OF WORK DAY AND FURNISH MIX PROPORTIONS TO LICENSED WEIGHMASTER.
 - LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
 - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL BE TRANSMITTED TO INSPECTOR OF RECORD.
 - SUBMIT WEIGHMASTER AFFIDAVIT.
- WAIVER OF CONTINUOUS BATCH PLANT INSPECTION NOT REQUIRED (PER CBC 1705A3.3.2):
 - PLANT INSPECTION IS NOT REQUIRED FOR ANY OF THE FOLLOWING CONDITIONS:
 - SITE FLATWORK,
 - UNENCLOSED SITE STRUCTURES, INCLUDING BUT NOT LIMITED TO LUNCH OR CAR SHELTERS, BLEACHERS, SOLAR STRUCTURES, FLAG OR LIGHT POLES, OR RETAINING WALLS,
 - CONTROLLED LOW-STRENGTH MATERIAL BACKFILL, OR
 - SINGLE-STORY RELOCATABLE BUILDINGS LESS THAN 2,160 SQUARE FEET.
- TESTING IS WAIVED FOR ONE-STORY BUILDINGS IF MILL CERTIFICATE IS PROVIDED.
- REQUIRED ONLY WHERE DETAILS SPECIFY THE USE OF THESE ATTACHMENTS.
- INSPECTION OF THIN SET VENEER DETAILED ON SHT. A7.0 MAY BE WAIVED BY DSA ON A SITE SPECIFIC BASIS.
- THE APPENDIX TO DSA-103 SHALL BE COMPLETED BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
- TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEET S5.1 HAVE A THICKNESS OF 3/4" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. NONDESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION WELDS AT GRAVITY CONNECTIONS SHALL COMPLY WITH AISC 360, CHAPTER N, PER 2016 CBC 1705A.2.1.
- EXAMPLE DSA-103 FORMS WILL BE USED AS GUIDE TO DEVELOP A SITE-SPECIFIC DSA-103 FORM FOR THE SITE-SPECIFIC PROJECT. EXAMPLE FORMS ON THE PC DRAWINGS WILL BE CROSSED OUT WHEN SITE-SPECIFIC DSA-103 FORMS ARE PROVIDED DURING OTC REVIEW. SEE DSA PR 07-01, ITEM 2 & 5. QUALIFIED REPRESENTATIVE OF LABORATORY OF RECORD OR APPROVED SPECIAL INSPECTOR SHALL VERIFY ALL STEEL IDENTIFICATION PER 2016 CBC 2203A.1.

TEST OR INSPECTION (as listed on DSA-103)⁶

MATERIAL TYPE

	STOCKPILE		CONSTRUCTION (Diaphragm - Foundation)				RELOCATION OF CERTIFIED BUILDING	
	A	B	C	D	E	F	G	
WOOD FLOOR JOIST	X							
CONCRETE FLOOR		X						
WOOD FLOOR JOIST ON CONCRETE FOUNDATION			X					
WOOD FLOOR JOIST ON CONCRETE FOUNDATION				X				
CONCRETE FLOOR ON CONCRETE FOUNDATION					X			
CONCRETE FLOOR ON CONCRETE FOUNDATION						X		

SOILS

GENERAL	A	B	C	D	E	F	G
1. GENERAL							
a. Verify that							
- Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations				X	X		X
- Foundation excavations extended to proper depth and have reached proper material							
- Materials below footings are adequate to achieve the design bearing capacity							
2. COMPACTED FILLS							
a. Perform classification and testing of fill materials				X	X		X
b. Verify use of proper materials, densities, and inspect lift thicknesses, placement and compaction during placement of fill				X	X		X
c. Test compaction of fill				X	X		X

CONCRETE

CAST IN PLACE CONCRETE - Lightweight over Metal Deck	A	B	C	D	E	F	G
7. CAST IN PLACE CONCRETE - Lightweight over Metal Deck							
a. Verify use of required design mix		X			X		
b. Identify, sample, and test reinforcing steel ⁽⁹⁾		X			X		
c. During concrete placement, fabricate specimens for strength tests, performing slump, and air content tests, and determine the temperature of the concrete		X			X		
d. Test concrete (f _c - compression)		X			X		
e. Batch plant inspection ⁽¹⁰⁾⁽¹¹⁾ - design complies with 1705A.3.3		X			X		
f. Not Used		X			X		
h. Welding of reinforcing steel		X			X		

CAST IN PLACE CONCRETE - Foundation	A	B	C	D	E	F	G
7. CAST IN PLACE CONCRETE - Foundation							
a. Verify use of required design mix				X	X		X
b. Identify, sample, and test reinforcing steel ⁽⁹⁾				X	X		X
c. During concrete placement, fabricate specimens for strength tests, performing slump, and air content tests, and determine the temperature of the concrete				X	X		X
d. Test concrete (f _c - compression)				X	X		X
e. Batch plant inspection ⁽¹⁰⁾⁽¹¹⁾ - design complies with 1705A.3.3				X	X		X
f. Not Used				X	X		X
h. Welding of reinforcing steel				X	X		X

POST-INSTALLED ANCHORS	A	B	C	D	E	F	G
14. POST-INSTALLED ANCHORS							
a. Inspect installation of post-installed anchors			X			X	
b. Test post-installed anchors			X			X	

MASONRY

VENEER OR GLASS BLOCK	A	B	C	D	E	F	G
14. VENEER OR GLASS BLOCK							
a. Verify proportions of site-prepared mortar and grout and/or verify certification of premixed mortar	X	X	X	X	X		
b. Inspect placement of units and construction of mortar joints	X	X	X	X	X		
c. Inspect placement of reinforcement, connectors, and anchors							
d. Inspect type, size, and location of anchors and all other items to be embedded in masonry including details of anchorage of masonry to structural members, frames, and other construction							
e. Verify preparation, construction, and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90°)	X	X	X	X	X		
f. Test veneer bond strength	X	X	X	X	X		

STEEL, ALUMINUM

STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES	A	B	C	D	E	F	G
17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES							
a. Verify identification of all materials and							
- Mill certificates indicate material properties that comply with requirements,	X	X	X	X	X		
- Material sizes, types and grades comply with requirements	X	X	X	X	X		
b. Test unidentified materials	X	X	X	X	X		
c. Examine seam welds of HSS shapes	X	X	X	X	X		
e. Verify and document steel fabrication per DSA approved construction documents	X	X	X	X	X		

WELDING	A	B	C	D	E	F	G
18. WELDING							
a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS	X	X	X	X	X		
b. Verify weld filler material manufacturer's certificate of compliance	X	X	X	X	X		
c. Verify WPS, welder qualifications and equipment	X	X	X	X	X		

SHOP WELDING	A	B	C	D	E	F	G
19.1 SHOP WELDING							
a. Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	X	X	X	X	X		
b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	X	X	X	X	X		
c. Inspect welding of stairs and railing systems (only required where noted on S10.0 & S10.1)	X	X	X	X	X		
d. Verification of reinforcing steel weldability other than ASTM A706							
e. Inspect welding of reinforcing steel							

FIELD WELDING	A	B	C	D	E	F	G
19.2 FIELD WELDING							
a. Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds (See foundation anchorage - S1.6 sheets)				X	X		X
b. Inspect single-pass fillet welds ≤ 5/16" (See foundation anchorage - S1.6 sheets)				X	X		X
c. Inspect end-welded studs (ASTM A-108) installation (including bend test)							
d. Inspect floor and roof deck welds							
e. Inspect welding of structural cold-formed steel							
f. Inspect welding of stairs and railing systems							
g. Verification of reinforcing steel weldability							
h. Inspect welding of reinforcing steel							

NONDESTRUCTIVE TESTING	A	B	C	D	E	F	G
20. NONDESTRUCTIVE TESTING ⁽¹²⁾							
a. Ultrasonic (Test per sheet S5.1)	X	X	X	X	X		
b. Magnetic Particle (Test per sheet S5.1)	X	X	X	X	X		

SPRAY APPLIED FIRE PROOFING	A	B	C	D	E	F	G
22. SPRAY APPLIED FIRE PROOFING							
a. Examine structural steel surface conditions, inspect application, take samples, measure thickness, and verify compliance of all aspects of application with DSA approved documents				X	X	X	
b. Test bond strength							
c. Test density							

ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL	A	B	C	D	E	F	G
23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL							
a. Anchor Bolts and Anchor Rods							
b. Threaded rod not used for foundation anchorage							

OTHER

LOAD TEST FOR IDENTIFIED PRODUCTS	A	B	C	D	E	F	G
26. LOAD TEST FOR IDENTIFIED PRODUCTS							
a. Column fire rating where specified per 20A8.0 and tested per 1705A.15	X	X	X	X	X		