

Instructions: The form must be completed by the City of Houston Approved Special Inspection Agency.

Fabricator's Name: _____	Fabricator's number: _____	Date: _____
Plant Address: _____		
Fabricator's Representative Name: _____	Title: _____	
Fabricator's Representative E-Mail Address: _____		
Phone Number: _____		

SPECIAL INSPECTION AGENCY: _____		
Agency's Number: _____	Time In: _____	Time Out: _____
Inspector Name: _____	Phone Number: _____	
E-Mail Address: _____		
COMMENTS PERTAINING TO THIS AUDIT		

INSPECTOR RECOMMENDATIONS		
<input type="checkbox"/> NEW CERTIFICATION AS CERTIFIED FABRICATOR OF _____		
<input type="checkbox"/> RENEWAL OF CERTIFICATION		
<input type="checkbox"/> APPROVED UPON CORRECTION OF FINDINGS		
<input type="checkbox"/> DISAPPROVAL		
SPECIAL INSPECTOR SIGNATURE: _____		DATE: _____

COMPLETE, SIGN, SEAL & DATE THIS FORM AND MAIL OR EMAIL TO THE CITY OF HOUSTON:
City of Houston - Building Code Enforcement – Code Development, 1002 Washington Ave., Houston, Texas
77002
Email: code.development@houstontx.gov

AUDIT OF FABRICATION PRACTICES (WOOD TRUSS)

Fabricator's Name: _____ Fabricator's number: _____ Date: _____

A	GENERAL REQUIREMENTS	COMPLIANCE	COMMENTS
A-1	Is the Quality Control Manual fully documented and up to date?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
A-2	Is the Quality Control Manual reviewed at least annually? Provide last review date: _____	<input type="checkbox"/> YES <input type="checkbox"/> NO	
A-3	Are there any revisions to the Quality Control Manual? Provide latest revision date: _____	<input type="checkbox"/> YES <input type="checkbox"/> NO	
A-4	Are there any key personnel changes since last inspection?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
A-5	Are the annual inspections performed as required? Provide last inspection date: _____	<input type="checkbox"/> YES <input type="checkbox"/> NO	
B	ENGINEERING	COMPLIANCE	COMMENTS
B-1	The fabricator can demonstrate that there is either an in-house or an outside licensed engineer to perform necessary designs and/or to consult on technical questions.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
B-2	The fabricator can demonstrate that there is an in-house or outside special process consultant for each special process performed.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
B-3	The contract documents are reviewed to assure that all materials and processes are specified or indicated on the drawings or specifications.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
B-4	The fabricator reviews the contract documents and structural/architectural drawings for correctness.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
B-5	The fabricator has a process to review corrections and the complex design problems encountered in the fabrication process.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
B-6	The fabricator has personnel with adequate knowledge to provide answers to technical questions.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
B-7	The fabricator has personnel with adequate knowledge of applicable material specifications.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
C	DRAFTING	COMPLIANCE	COMMENTS
C-1	Shop drawings are properly prepared.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
C-2	The fabricator has personnel capable of supervising, evaluating, and coordinating shop drawing preparation and all shop drawings are reviewed for correctness.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
C-3	The fabricator has an in-house capability of providing special details for the shop/plant to solve fabrication problems.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
C-4	The shop drawings indicate materials to be utilized in the final structure.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
D	DRAWING CONTROL	COMPLIANCE	COMMENTS
D-1	The fabricator can verify control of design drawings as follows: <input type="checkbox"/> receipt <input type="checkbox"/> on file <input type="checkbox"/> revisions	<input type="checkbox"/> YES <input type="checkbox"/> NO	
D-2	The fabricator can verify control of specifications and addendums.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

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D-3	The fabricator can demonstrate control of shop drawings: <input type="checkbox"/> receipt <input type="checkbox"/> on file	<input type="checkbox"/> YES <input type="checkbox"/> NO	
D-4	The Quality Control Manual traces each phase from drawing preparation, to shop drawing, receipt, submittals for approval, approval, resubmittals and date sent to shop/plant for fabrication.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
D-5	The fabricator can demonstrate control of revisions to shop drawings.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
D-6	The fabricator can demonstrate control of obsolete shop drawings.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
D-7	The drawing control system used is the one described in the Quality Control Manual.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
E	WORK ORDER – JOB CONTROL	COMPLIANCE	COMMENTS
E-1	The fabricator has established a job control number/identification system for all work accepted.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
E-2	All correspondence received is marked with its job identification mark.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
E-3	Job correspondence is filed with the job files for that work.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
E-4	All correspondence received is: <input type="checkbox"/> stamped received <input type="checkbox"/> dated & initialed	<input type="checkbox"/> YES <input type="checkbox"/> NO	
F	MATERIAL PROCUREMENT	COMPLIANCE	COMMENTS
F-1	Materials are procured by a purchase order or some other type of form that provides verification and documentation of the order.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
F-2	All materials are ordered or procured to acceptable standards and/or specifications.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
F-3	The material specifications are indicated/documentated on the purchase order/form used for materials procurement.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
F-4	The procurement document states how the material shall be marked/identified.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
F-5	The fabricator requires suppliers to furnish material certification reports on the procurement document.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
F-6	The procurement documents specify that material test reports shall accompany material/subassembly delivery to the fabricator's facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
F-7	The fabricator has documented the review of the quality status of suppliers on a regular basis.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
F-8	The QA/QC manager has visited and/or reviewed subcontractors' fabrication and/or Quality Control System operations on a random basis where applicable.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
G	RECEIVING MATERIAL	COMPLIANCE	COMMENTS
G-1	The fabricator is using a formal method for receiving materials/subassemblies.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

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G-2	The fabricator inspects all incoming materials arriving at the facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
G-3	The fabricator has a material identification system to assure control of materials of different grades/sizes (as applicable).	<input type="checkbox"/> YES <input type="checkbox"/> NO	
G-4	Acceptance tolerances are available at the receiving inspection station.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
G-5	Receiving inspections are documented.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
G-6	The receiving inspector understands the company system for: <ul style="list-style-type: none"> <input type="checkbox"/> receiving materials <input type="checkbox"/> receiving subassemblies <input type="checkbox"/> acceptance/rejection of nonconforming materials and/or subassemblies <input type="checkbox"/> means of handling correctable nonconformities observed during the receiving inspection 	<input type="checkbox"/> YES <input type="checkbox"/> NO	
G-7	The material identification process provides for material traceability to the final product.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
G-8	Receiving inspector confirms: <ul style="list-style-type: none"> <input type="checkbox"/> quantity of materials <input type="checkbox"/> size of material <input type="checkbox"/> grade of material <input type="checkbox"/> length of material 	<input type="checkbox"/> YES <input type="checkbox"/> NO	
H	HANDLING & STORAGE EQUIPMENT, FACILITIES AND PROCEDURES	COMPLIANCE	COMMENTS
H-1	The fabricator has adequate facilities, equipment and illustrated drawings or instructions available to indicate the proper way to: <ul style="list-style-type: none"> <input type="checkbox"/> handle materials in the yard <input type="checkbox"/> handle materials in the plant <input type="checkbox"/> store materials/subassemblies <input type="checkbox"/> provide correct bracing/blocking for materials/subassemblies <input type="checkbox"/> prevent material/subassembly deterioration <input type="checkbox"/> provide correct storage for fabricated products <input type="checkbox"/> handle fabricated products 	<input type="checkbox"/> YES <input type="checkbox"/> NO	
H-2	The fabricator is utilizing an adequate control process for stocked/stored materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I	NORMAL AND SPECIAL PROCESSES CONTROL	COMPLIANCE	COMMENTS
I-1	The fabricator is controlling normal and special production/work processes.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-2	Acceptance standards are readily available or posted near workstations for review by production personnel and inspection personnel.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-3	Sufficient work instructions are available to production personnel at each workstation.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-4	Fabricator is utilizing established qualification standards for special work processes.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

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I-5	Qualifications for personnel performing special work processes are available or posted and maintained up-to-date, readily available to production supervisors and quality control personnel.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-6	Special process personnel have been assigned identification symbols to identify work performed by them.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-7	The assigned identification symbols for special process personnel are readily available or have been posted for use by Quality Control inspectors.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-8	Special process personnel identify work they performed.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-9	Key inspections by production personnel are documented.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-10	All inspections are documented.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-11	The fabricator can demonstrate the system utilized for: <ul style="list-style-type: none"> <input type="checkbox"/> minor repairs <input type="checkbox"/> major repairs <input type="checkbox"/> documentation of re-inspection of repairs 	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-12	The fabricator can demonstrate system for rejection and disposal of non-repairable nonconformities.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-13	The fabricator can demonstrate that surveillance of stored fabricated products is performed on a routine scheduled basis.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
I-14	Fabricated products are stored on a hard compacted well drained surface.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
J	EQUIPMENT CONTROL & MAINTENANCE	COMPLIANCE	COMMENTS
J-1	The fabricator can demonstrate that each piece of equipment in the plant: <ul style="list-style-type: none"> <input type="checkbox"/> is acceptable or not acceptable for use <input type="checkbox"/> is documented on the equipment <input type="checkbox"/> is on a maintenance program <input type="checkbox"/> is listed on a maintenance log <input type="checkbox"/> has been calibrated within an acceptable established time frame where applicable <input type="checkbox"/> is listed, when appropriate, in a calibration log when actively utilized 	<input type="checkbox"/> YES <input type="checkbox"/> NO	
K	AUDITS/REVIEWS OF THE QUALITY PROGRAM	COMPLIANCE	COMMENTS
K-1	Verification was presented to demonstrate that management has reviewed the Quality Control System within the last twelve (12) months.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
K-2	Management has taken steps to measure the effectiveness of the quality program.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
K-3	The QA/QC manager has shown documentation that each Quality Control Manual was reviewed to assure it is complete and up to date within the last six (6) months.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

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K-4	The fabricator has established a record retention system and is retaining job records for a minimum of two (2) years after construction completion.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L	QUALITY CONTROL PERSONNEL/INSPECTORS	COMPLIANCE	COMMENTS
L-1	Quality control inspectors were available in the plant at the time of this inspection excluding QC manager (applicable when appropriate).	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-2	The quality control personnel have immediate access to the specifications, addendums to specifications, or to the engineer for answering key questions.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-3	The quality control personnel have immediate access to the technical library and other pertinent information.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-4	The quality control personnel inform line production supervisory personnel when nonconforming work is observed.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-5	The quality control personnel are conversant with qualifications of special process requirements.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-6	The quality control personnel have immediate access to approved procedures for special processes.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-7	The quality control personnel are conversant with qualifications of special process personnel.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-8	The quality control personnel verify equipment is checked for acceptable performance.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-9	The quality control personnel verify that production equipment is calibrated.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-10	The quality control personnel can verify documentation of equipment maintenance and repairs.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-11	Non-conforming tools and equipment are red tagged to prevent their use in production.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-12	The quality control personnel are equipped to properly perform assigned tasks. <input type="checkbox"/> tapeline <input type="checkbox"/> calipers <input type="checkbox"/> tag system	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-13	The quality control personnel understand their responsibility to management.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
L-14	The quality control personnel have sufficient authority to perform their assignments.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
M	ADDITIONAL COMMENTS	COMPLIANCE	COMMENTS
	It is evident by this inspection and the review of the Quality Control System and its operation that currently:		
M-1	All employees are aware of the Quality Control System.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

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M-2	Employees are familiar with the Quality Control System as it may pertain to them.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
M-3	Management has taken an active role in the Quality Control System.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
M-4	The following key functions are performed by personnel fully aware of and acquainted with the Quality Control System: <input type="checkbox"/> sales <input type="checkbox"/> purchasing <input type="checkbox"/> other _____ <input type="checkbox"/> engineering <input type="checkbox"/> production _____ <input type="checkbox"/> drafting <input type="checkbox"/> quality control	<input type="checkbox"/> YES <input type="checkbox"/> NO	
M-5	The fabricator has completely separated production and QA/QC activities.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
M-6	The fabricator QA/QC program is functioning in each of the key areas without significant omissions, inconsistencies and/or non-compliance with the established program.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
M-7	The fabricator appears to have sufficient procedure/work instructions to assure all products are fabricated to conform to the contract documents and code requirements.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
M-8	The fabricator has an adequately documented Quality Assurance Program.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
N	WOOD TRUSS ENGINEERING	COMPLIANCE	COMMENTS
	The engineering of the trusses has considered and/or the drawings of the trusses show/indicate the following is specified:		
N-1	Bracing: <input type="checkbox"/> compression members <input type="checkbox"/> size <input type="checkbox"/> tension members <input type="checkbox"/> detail <input type="checkbox"/> location	<input type="checkbox"/> YES <input type="checkbox"/> NO	
N-2	Design loads: <input type="checkbox"/> top chord dead load <input type="checkbox"/> bottom chord live load <input type="checkbox"/> top chord live load <input type="checkbox"/> concentrated loads and points of application <input type="checkbox"/> bottom chord dead load	<input type="checkbox"/> YES <input type="checkbox"/> NO	
N-3	Design values of lumber (for the allowable working stress method) have been adjusted/multiplied by load duration factors where applicable as follows: <input type="checkbox"/> impact (2.00) <input type="checkbox"/> permanent, more than 50 years (0.90) <input type="checkbox"/> wind (1.60) <input type="checkbox"/> normal loading condition, 10 years (1.00) <input type="checkbox"/> 7-day construction load (1.25)	<input type="checkbox"/> YES <input type="checkbox"/> NO	

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	<input type="checkbox"/> more than normal, less than 50 years (0.95) <input type="checkbox"/> snow (1.15)		
N-4	When green lumber (19% MC) is used, engineering design clearly shows reduction used in lumber values and connector values.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
N-5	Allowable working stress values have been modified for: <ul style="list-style-type: none"> <input type="checkbox"/> wet/dry conditions of use <input type="checkbox"/> lumber pressure impregnated with fire retardant chemicals and Kiln Dried <input type="checkbox"/> lumber pressure impregnated with preservative and Kiln Dried <input type="checkbox"/> lumber preservative treated - surface application <input type="checkbox"/> connectors used on each of the above 	<input type="checkbox"/> YES <input type="checkbox"/> NO	
N-6	Special marking requirements: <ul style="list-style-type: none"> <input type="checkbox"/> bottom chord bearing of parallel chord trusses marked to prevent inverted installation <input type="checkbox"/> all bearing points marked other than at ends or heel locations <input type="checkbox"/> lateral bracing locations clearly marked <input type="checkbox"/> to prevent field revisions/alterations <input type="checkbox"/> ends marked 	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O	WOOD TRUSS FABRICATION	COMPLIANCE	COMMENTS
O-1	Lumber is adequately stored in an area protected from the weather.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-2	Fabricator verifies moisture content.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-3	Moisture content at time of fabrication is equal to or less than 19%.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-4	Truss configuration is verified to match that shown on approved shop drawing/design drawing.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-5	Lumber used in truss fabrication is of proper size and is grade marked.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-6	Lumber grade marks conform to minimum shop drawing requirements/design drawings.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-7	Lumber species conforms to that shown on approved shop drawings/design drawings.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-8	Changes in member size and/or species require additional analysis to provide equivalency and must be approved by design engineer.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-9	Manufactured lumber qualified under model code agencies may substitute within appropriate jurisdiction sizes and grades of lumber that provide equivalency.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-10	Wood with excessive slope of grain is culled before truss assembly.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-11	Wood with numerous checks, splits and other defects is culled before truss assembly.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

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	(Note: Wood with loose or missing knots, which are <u>not</u> in or near connector contact, may be used if permitted by applicable grading rules.)		
O-12	Pieces with knots in or near the connector contact area are culled out before assembly.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-13	Cupped, twisted or bowed lumber is not used in truss fabrication.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-14	Truss members are initially straight.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-15	Truss members are uniform in cross section and have no characteristics which interfere with proper placement of connectors/connector plates.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-16	Wood members are accurately cut for fabrication assembly:	<input type="checkbox"/> YES <input type="checkbox"/> NO	
	<input type="checkbox"/> average open joint width for tension member did not exceed 1/16" (maximum 1/8" at open end)	<input type="checkbox"/> YES <input type="checkbox"/> NO	
	<input type="checkbox"/> open joints for tension members are limited to two such joints for each truss	<input type="checkbox"/> YES <input type="checkbox"/> NO	
	<input type="checkbox"/> full contact bearing is provided for compression members	<input type="checkbox"/> YES <input type="checkbox"/> NO	
	<input type="checkbox"/> single or double angle cuts at joints follow engineering design drawings	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-17	Wood members are cut or drilled with sharp equipment without leaving burrs and rough edges.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-18	Truss members are assembled in design configuration in rigid fixtures/jigs.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-19	Truss camber is provided at points specified in the engineered design or shop drawings.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-20	Positive clamps are used to hold wood members in rigid fixtures/jigs to ensure good contact bearing.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-21	Attention is given to assure peak joints and heel joints have wood to wood contact.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-22	Upper chord compression members are full length where possible.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-23	Splice joints in main chord members requiring wood to wood contact compression for stability of design have proper contact bearing.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-24	Metal shims may be used to ensure proper contact for compression members. Metal shims must bend over sides at least one inch.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-25	Splices have joint cuts perpendicular to chord members.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-26	Splices in lower chord members are not in the first panel adjacent to heel joint.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-27	Splices occur at locations indicated on approved shop drawings/engineer design drawings.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-28	Connectors are not installed at locations where knots occur.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-29	Fabrication tolerances are not cumulative. No more than one allowable tolerance may reach maximum limit at any given joint.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-30	The simultaneous occurrence of the allowable tolerances for plate location/orientation and tolerances for tooth embedment is cause for	<input type="checkbox"/> YES <input type="checkbox"/> NO	

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	rejection.		
O-31	Parallel chord trusses that have bottom chord bearing are clearly marked by the fabricator to prevent inverted installation.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-32	Marking is so located that visual verification of proper orientation can be made after installation.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-33	Bearing points are clearly marked on all trusses having bearing locations other than at the ends or heel locations.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-34	Bearing point marks are so located that verification can be made during and after installation.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-35	Truss members which require special lateral bracing are clearly marked to call attention to the need for such bracing.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-36	Trusses are clearly marked to warn against unauthorized field revision/alteration before, during and after erection/installation.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-37	Fabricator retains an approved agency with no financial interest in plant for nonscheduled inspections of fabrication and delivery operations.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-38	Trusses are marked with fabricator's city registration number.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-39	Trusses are handled in such a manner as to prevent excessive lateral bending.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-40	Trusses are stored in a supported flat position.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-41	Trusses are stored in a vertical position.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-42	Sufficient bearing locations/supports are used to maintain truss alignment in a flat position.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-43	Pitched trusses are stored in an inverted position.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-44	Center of gravity of bundled pitched trusses is located below the bearing points.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-45	Trusses are stored in such a manner as to prevent damage to soffit returns.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-46	Trusses are bundled and banded to facilitate shipping without damage or overstressing of the trusses.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-47	Care is taken during handling, storage, loading and delivery to avoid damage to the trusses.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-48	All pressure treated lumber bears the quality mark of the approved inspection agency which performed continuous supervision, testing and inspection over the treated lumber quality.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
O-49	Quality marks on pressure-treated lumber indicate the material has been treated and re-dried to 19% Moisture Content or less in accordance with A.W.P.A. Standard C-1. (All Timber Products Preservative Treatment by Pressure Process).	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P	WOOD TRUSS FABRICATION USING METAL PLATE CONNECTORS^a	COMPLIANCE	COMMENTS

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P-1	All plates are identified by the plate manufacturer's trademark/name.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-2	All plates are identifiable as a grade of material equal to or exceeding ASTM A446 Grade A.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-3	All plates are identified by size and thickness/gauge of material.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-4	All plates have been assigned an identification marking relating to usage.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-5	All plates are packaged in a suitable manner to prevent damage in shipment.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-6	All plates are properly stored to assure ease in identification. (No random loose plates are scattered about).	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-7	All plates are stored in an area protected from the weather.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-8	All plates are galvanized.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-9	Plates are manufactured with all holes, plugs, teeth or prongs properly spaced and properly formed. Blank plates are not acceptable or used.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-10	All plates requiring separately applied nails or fasteners have a positive means of indicating locations of such nails/fasteners.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-11	Nails are driven to provide firm even contact between plate and wood.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-12	Plates from different suppliers are not intermixed unless authorized in writing by design engineer.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-13	Connector plates are accurately positioned in pairs on opposite faces of the joint of the members connected.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-14	Connector plate lengths and widths observed were oriented as indicated on approved shop drawings.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-15	Connector plate is located as to assure proper number of teeth/prongs are engaged.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-16	The placement of connector metal plates is in accordance with TPI-1.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-17	All connectors are firmly pressed into wood with plates fitting snug against the wood.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-18	Fabricator is acquainted with plate manufacturer's recommendations for positioning/locating plates.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-19	Fabricator plate manufacturer's recommendations for setting/embedding plates are available for production personnel review,	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-20	Fabricator has established plate positioning tolerances.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-21	Production personnel are familiar with established positioning: _____ a. Requirements _____ b. Tolerances	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-22	Fabricator's plate positioning tolerances conform to minimum positioning recommendation of the plate manufacturer.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

AUDIT OF FABRICATION PRACTICES (WOOD TRUSS)

Fabricator's Name: _____ Fabricator's number: _____ Date: _____

P-23	When connectors cause splitting of any member, that truss is rejected.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-24	A connector plate with prongs/teeth 5/8" and longer is rejected or repressed to conform when a 1/16" feeler gauge can be inserted between the plate and the face of the wood.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-25	A connector plate with prongs/teeth less than 5/8" is rejected or repressed to conform when a feeler gauge 1/10 the length of the prong or tooth can be inserted between the plate and the face of the wood. (TPI) (3/16"=.1875", 1/2=.25", 5/16 =.3125", 3/8 =.375", 7/16 =.4375")	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-26	Regardless of tolerance allowed for tooth embedment not more than 1/3 of the contact area of the plate is free of direct plate to wood contact.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-27	A truss that has one or more plates showing evidence of flattening of teeth or prongs is rejected.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-28	Rework of trusses damaged by excessive bending causing plate/teeth slippage more than allowed requires reworking with larger teeth/prongs and/or a larger plate size and/or additional nail.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-29	The items covered in 26, 27 and 28 are covered in the fabricator's quality assurance systems manual.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-30	Fabricator's personnel have necessary feeler gauges to assure production conformance: _____ a. Production _____ b. Quality Assurance	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-31	Fabricator production/Q.C. personnel understand effects of plate placement when moisture content is above 19%.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
P-32	Fabricator understands that additional corrosion resistant protection is required for plates used with fire retardant treated wood truss members and other chemically treated lumber.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Q	MATERIALS AND DESIGN CRITERIA OF METAL PLATE CONNECTORS ^a	COMPLIANCE	COMMENTS
Q-1	Connector plates are produced from galvanized steel sheets.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Q-2	Edges produced by connector tooth/prong and plate manufactured from galvanized material are left untreated.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Q-3	Connector plates are galvanized after fabrication.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Q-4	Material used in manufacture of metal plate connectors conforms or exceeds minimum requirements of ASTM A446 Grade A. Standard Specification for Steel Sheet Zinc coated by Hot-Dip Process.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Q-5	Minimum thickness of plate connectors produced from ASTM A446 Grade A steel is not less than 0.036 inches (coated thickness) which is a 20 gauge material.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Q-6	Galvanized coating on A446 steel conforms to or exceeds the requirements of ASTM A525, Standard Specification for Steel Sheet Zinc Coated (Galvanized) by the Hot-Dip Process.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

AUDIT OF FABRICATION PRACTICES (WOOD TRUSS)

Fabricator's Name: _____ Fabricator's number: _____ Date: _____

Q-18	Plate tests performed are based on: ___ a. Gross plate area method ___ b. Net plate area method ___ c. Both	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Q-19	Plates (all sizes & configurations) have been approved by ICC, IES.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Q-20	Connector plate design values are reduced 20% when lumber has moisture content more than 19% at time of truss fabrication.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

COMMENTS

Special Inspector Name: _____

(Engineer's Seal)

Special Inspector Signature: _____

Date: _____