CORNERSTONE ARCHITECT, LLC.

ARCHITECT | PLANNER | INTERIOR DESIGNER
RESIDENTIAL | COMMERCIAL | RESTAURANT

August 2nd, 2024

Attention: Development Services
220 SE Green
Lee's Summit, MO 64063

Project Title: Magic Noodles 2
Project Address: 1020 NW Pryor Road Suite 102
Permit Type: Commercial Tenant Finish

Fire Plan Review: Jim Eden

1. 2018 IFC 907.1.1- Construction documents. Construction documents for fire alarm syste shall be submitted for review and approval prior to system installation. Construction documents shall include, but not be limited to, all of the following: 1. A floor plan which indicates the use of all rooms. 2. Locations of alarm-initiating and notification appliances. 3. Alarm control and trouble signaling equipment. 4. Annunciation. 5. Power connection. 6. Battery calculations. 7. Conductor type and sizes. 8. Voltage drop calculations. 9. Manufacturers, model numbers and listing information for equipment, devices and materials. 10. Details of ceiling height and construction. 11. The interface of fire safety control functions. Provide alarm modification plans for review and approval.

   GC to submit alarm modification plans for city approval before any work.

2. 2018 IFC 505.1- Address numbers. New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. In Multi-tenant commercial building where tenants have multiple entrances located on different sides of the building , each door shall be addressed. Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5inch (12.7 mm).

   Acknowledged.

3. 2018 IFC 901.2- Construction documents. The fire code official shall have the authority to require construction documents and calculations for all fire protection systems and to require permits be issued for the installation, rehabilitation or modification of any fire protection system. Construction documents for fire protection systems shall be submitted for review and approval prior to system installation.

   GC to submit sprinkler and hood suppression plans before any work.

4. Provide hood system plans.

   See shop drawings from Larkin.

5. 5307.3 Insulated liquid carbon dioxide systems used in beverage dispensing applications. Insulated liquid carbon dioxide systems with more than 100 pounds (45.4 kg) of carbon dioxide used in beverage dispensing applications shall comply with Section 5307.3.1. Provide gas detection for the CO2 beverage system. Verified at inspection.

   Acknowledged.

6. 2018 IFC 904.11.5- Portable fire extinguishers for commercial cooking equipment. Portable fire extinguishers shall be provided within a 30-foot (9144 mm) travel distance of commercial-type cooking equipment. Cooking equipment involving vegetable or animal oils and fats shall be protected by a Class K rated portable extinguisher.

   As stated on Sheet T fire note no. 4

7. 2018 IFC 906.2- General requirements. Portable fire extinguishers shall be selected, installed and maintained in accordance with this section and NFPA 10. Provide a minimum of one 2A, 10B,C fire extinguisher (not shown).

   As stated on Sheet T fire note no. 12: provide a minimum of one 2A, 10B, C fire extinguisher

Building Reviewer: Jim Eden

1. A one-time impact fee in the form of a license tax must be collected before occupancy can be granted. Please be advised that additional application, review, and inspection fees do apply and additional information pertaining to this will be provided during that stage of your approval process. Action required: Comment is for informational purposes. The fee will be $15,105.75

   Acknowledged.

2. For the Health Department review contact Deb Sees with the Jackson County Public Works Department, Environmental Services Division, at (816) 797-7162. Health Department approval is required prior to receiving any type of building permit from the City of Lee's Summit. Action required: Comment is informational.

   Submitted.

3. For the Health Department inspection contact Deb Sees with the Jackson County Public Works Department, Environmental Health Division at (816) 797-7162. Health Department approval is required prior to receiving any type of Occupancy from the City of Lee's Summit. Action required: Comment is informational.

   Acknowledged.

4. 2018 IMC 507.2.6 Clearances for Type I hood. A Type I hood shall be installed with a clearance to combustibles of not less than 18". Exceptions: 1. Clearance shall not be required from gypsum wallboard or ½ inch or thicker cementitious wallboard attached to noncombustible structures provided that a smooth, cleanable, nonabsorbent and noncombustible material is installed between the hood and the gypsum or cementitious wallboard over an area extending not less than 18 inches in all directions from the hood. 2. Type I hoods listed and labeled for clearances less than 18 inches in accordance with UL 710 shall be installed with the clearances specified by such listings. Action required: Type 1 hood not allowed to be attached to wall as shown as it is built with wood studs.

   0-Clearance hood, refer to Page 2 of the shop drawing from Larkin industry. See M200.

5. 2018 IBC 1606.2 Design dead load. For purposes of design, the actual weights of materials of construction and fixed service equipment shall be used. In the absence of definite information, values used shall be subject to the approval of the building official. Action required: Provide engineer's report to verify that existing roof structure will support additional load imposed by new mechanical equipment.

   Structural engineer letter attached at the end of this document.

6. 2018 IMC 602.2.1 Materials within plenums. Except as required by Sections 602.2.1.1 through 602.2.1.5, materials within plenums shall be noncombustible or shall be listed and labeled as having a flame spread index of not more than 25 and a smoke-developed index of not more than 50 when tested in accordance with ASTM E84 or UL 723. (see code section for exceptions) Action required: Specify compliant DWV pipe material. PVC not allowed in plenum.

   See revised Note J, Mechanical/Plumbing Specification, Sheet MPE400.

7. 2018 IMC 506.5.3 Exhaust fan mounting. Up-blast fans serving Type I hoods and installed in a vertical or horizontal position shall be hinged and supplied with a flexible weatherproof electrical cable to permit inspection and cleaning and shall be equipped with a means of restraint to limit the swing of the fan on its hinge. The ductwork shall extend not less than 18 inches above the roof surface. Action required: Provide verification that grease fans are hinged for maintenance.

   See revised Detail 2 (Kitchen Hood Exhaust Fan Detail), Sheet MP301 which notes hinged access for maintenance.

See the owner change order clouded and dated 7/20/24 on sheet E 200, M Sheets, and A Sheet on Mechanical Roof Plan.

For additional questions please contact:

Jean Kao, RA
Principal Architect
Cornerstone Architect, LLC
CornerstoneArchitectLLC@gmail.com
816-838-3472
A-6059

Greg Gladfelter

CORNERSTONE ARCHITECT, LLC.

ARCHITECT | PLANNER | INTERIOR DESIGNER
RESIDENTIAL | COMMERCIAL | RESTAURANT

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DrJ ENGINEERING
6300 Enterprise Lane | Madison, WI 53719 | drjengineering.org

D-Number: D1075

Job Name: West Pryor 2401009

The Truss Manufacturer (TM) is Capital Structures

The TM has Communicated Truss Design Criteria (TDC) to DrJ Engineering, LLC (DrJ). Refer to the individual Truss Design Drawings (TDDs) for specifics. Building Code, Software & engineering information.

The TM has obtained, through the TM's Customer, the TDC &Truss design requirements from the Construction Documents &/or one of the Construction Professionals. The TM has communicated the TDC & any related Truss design requirements to DrJ. This Communication includes transfer of TDC & any related Truss design requirements using proprietary Truss industry Software. DrJ designs each individual Truss, as illustrated on each TDD, relying upon the accuracy & completeness of Communicated information.

The seal on the Cover/Truss Index Sheet & on the individual TDD represents acceptance of responsibility for the review of the TDC & the design of each individual Truss. Each Truss then becomes one element of a Building Structural System (BSS). For any other BSS information needed, please contact the TM.

The TM is responsible for supplying the truss-to-truss connector type. Contact the TM for questions regarding truss-to-truss connector type, application and/or installation.

All dimensions are reproduced from the referenced Building Designer's plans.

WARNING: Always review the handling, storage, installation, lateral restraint & diagonal bracing information provided by TM through their delivery of the Truss Submittal Package (TSP). Do not cut or alter any part of a Truss or Structural Element. Never stack building material without proper lateral restraint & diagonal bracing. Never overload/exceed the design load shown on any TDD or Structural Element design drawing (SEDD). Property damage &/or personal injury happen when there is complacency regarding safety items. DrJ presumes the TM submits their TSP to be reviewed, approved & used by one or more of the following; building Owner, Building Official, Building Designer, Registered Design Professional in Responsible Charge, Contractor &/or Framer.

July 30, 2024

Ryan J. Dexter, P.E.
Truss Design Engineer

SCOPE OF WORK & DEFINITIONS:

DrJ is a professional engineering company, which is defined as an Approved Source. In addition, DrJ is an ANAB accredited ISO/IEC 17065 Approved Agency. Approval or acceptance of the work of an Approved Source is determined by the Approved Source employing properly licensed professional engineers. Similarly, approval or acceptance of an Approved Agency is by the Approved Agency being a properly accredited third party certification body.

The DrJ scope of work is to undertake the structural analysis needed to create the TDDs listed here. TDDs prepared by DrJ are Instruments of Service for use solely for the named Project. This includes documents in electronic form. DrJ shall be deemed the author & owner of its Instruments of Service & shall retain all copyrights, common law statutory & other reserved rights. The Instruments of Service shall not be used by anyone for future additions or alterations of this Project or for other Projects without prior written instruction by DrJ. Any unauthorized use of the Instruments of Service shall be at the sole risk of the TM &/or other user & DrJ shall not have liability for this use.

For its engineering evaluation and structural design work, DrJ relies upon the accuracy of published raw material (i.e., lumber, OSB, etc.) & manufactured product design values. In addition, DrJ relies upon a product manufacturer's published product, material, design &/or method of construction pursuant to an ISO/IEC 17065 technical evaluation report or a sealed & signed report, which include but is not limited to design values, applications, conditions of use, quality, installation, bracing, & repair requirements. DrJ makes no representation or warranty with respect to raw material or manufactured product performance.

Capitalized terms & responsibilities are defined pursuant to the applicable building code, applicable reference standards, the latest edition of TPI 1, the National Design Specification® for Wood Construction (NDS), applicable professional engineering law, Appendix A Commentary/Definitions (www.drjcertification.org/AppendixA), Appendix B: Project/Deliverables (www.drjcertification.org/AppendixB), definitions created within Design Drawings &/or definitions within Reference Sheets. Terms not defined shall have ordinarily accepted meanings as the context implies. All pages of this document must be presented together to be considered complete.

All pages of this document must be presented together to be considered complete.

CONSTRUCTION MATERIALS: LUMBER, METAL PLATE CONNECTORS (MPCs) & OTHER FASTENERS

Commodity lumber Design Values, specified in the NDS, are defined as strength & stiffness property values of structural lumber products published for design use. These values are determined for specific grades & species/species groups. Sawn lumber used for load-supporting purposes, including end-jointed, edge-glued, machine stress-rated or machine evaluated lumber, shall be identified by the Grade mark of a lumber grading or inspection agency that has been approved by an Accreditation Body that complies with the latest edition of the DOC PS 20 American Softwood Lumber Standard or equivalent. Approved end-jointed lumber is permitted to be used interchangeably with solid-sawn members of the same species & grade. End-jointed lumber used in an assembly required to have a fire-resistance rating shall have the designation "Heat Resistant Adhesive" or "HRA" included in its grade mark. DrJ relies upon each lumber manufacturer to provide building code conforming Design Values, conditions of use, quality, & repair requirements as well as compliance with DOC PS 20 & the NDS Supplement, as pertinent.

MPCs are presumed to be manufactured, tested & identified in accordance with TPI 1. The design & performance of each Truss rely upon the MPC manufacturer's published ISO/IEC 17065 technical evaluation report &/or a sealed & signed Research Report that delineates design values, performance, application, installation, conditions of use, quality, & repair requirements.

The NDS provides design values for generic fastener types (e.g., bolts, nails, wood screws, spikes, timber rivets, drift pins, steel side plates, etc.).

Structural capacities for commodity & proprietary fastener types & steel side plates are presumed to be established, monitored, manufactured & identified in accordance with ASTM A36, ASTM A153/A153-16A, ASTM A307, ASTM A576, ASTM A576 GR1015 Modified, ASTM F606/F606M, ASTM A641/A641M, ASTM A653 Structural Grade (GR) 33, ASTM A653M SR 33, ASTM A675 GR60, ASTM A1011 SS GR33, ASTM D1761, ASTM D5764, ASTM D7147, ASTM F606/F606M, ASTM F680, ASTM F1575, ASTM F1667, including Supplement 1, ASTM F3359, &/or ASTM SAE J429 GR 2, as pertinent.

For proprietary manufactured structural fastener products & steel side plates, DrJ relies upon the manufacturer's published ISO/IEC 17065 technical evaluation report &/or a sealed & signed Research Report that delineates design values, performance, application, installation, conditions of use, quality, & repair requirements.

DrJ relies upon quality assurance being performed by an Approved Agency &/or Approved Source (e.g., ISO/IEC 17020, professional engineer, etc.).

DrJ makes no representation or warranty & is not liable for; 1) the accuracy of the TM's Communication, 2) lumber Design Values, 3) MPC design values, 4) the accuracy of Software, 5) building code compliance of any Structural Element as used in the BSS, 6) the existence of Grade Marks on lumber 7) the contents of any TSP &/or 8) the design values, quality or installation of any commodity or proprietary product. In addition, Appendix A Commentary/Definitions (www.drjcertification.org/AppendixA) & Appendix B Project/Deliverables (www.drjcertification.org/AppendixB), & the DrJ Reference Sheet contain pertinent information.

Job	Truss	Truss Type	Qty	Ply	Roof
2401009-RF	0301T-A	SLOPING FLAT	45	1	D1075

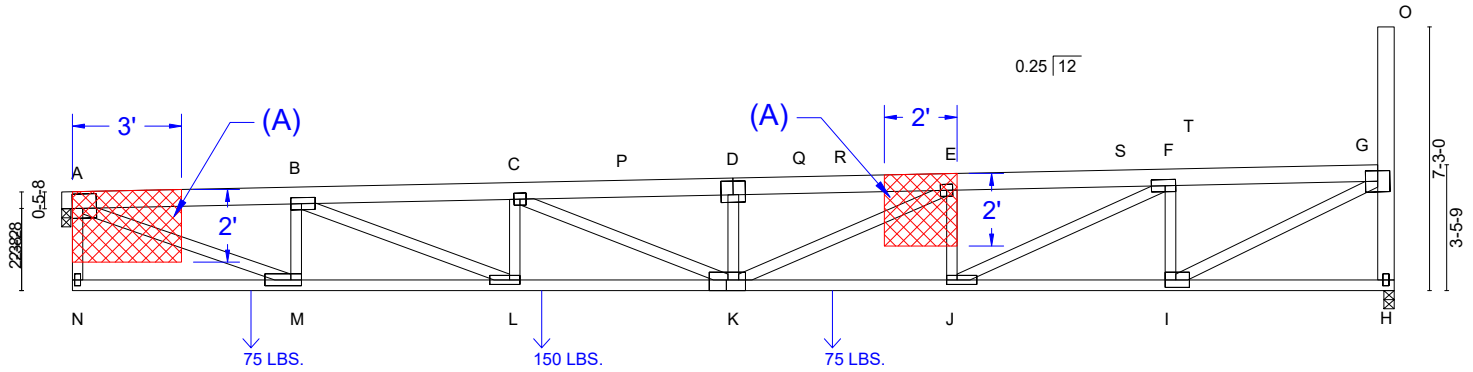
Job Reference (optional)

8.630 s Apr 20 2023 MiTek Industries, Inc. Mon Mar 25 09:17:45 2024

REPAIR:

1) ADDITIONAL 75 LBS AND 150 LBS. POINT DEAD LOAD APPLIED TO BOTTOM CHORD J-K, K-L AND M-N AT 5' 2-1/2", 13' 2-1/2" AND 21' 2-1/2" ALL FROM THE LEFT END AS SHOWN.

- NOTE - THIS REPAIR IS VALID FOR THE DESIGN CONDITIONS PROVIDED IN THIS TRUSS REPAIR DRAWING. IT'S ADEQUACY FOR THE ACTUAL CONDITIONS MUST BE VERIFIED BY OTHERS.
- REFER TO ORIGINAL TRUSS DESIGN DRAWING FOR ADDITIONAL NOTES.
- IF TRUSS IS IN PLACE, SHORE UP TRUSS TO RELIEVE ANY LOAD IT MAY BE SUPPORTING BEFORE BEGINNING REPAIR.
- UNLESS OTHERWISE SPECIFIED, REMOVE ALL ELECTRICAL, MECHANICAL, PLUMBING, ETC. RUNS INTERFERING WITH THE REPAIR MATERIALS AND RE-ROUTE. DO NOT CUT, DRILL, NOTCH, OR MODIFY REPAIR MATERIALS.



(A) APPLY 7/16" 24/16 SPAN RATED OSB GUSSETS TO EACH SIDE OF TRUSS AS SHOWN. ATTACH EACH GUSSET WITH (2) ROWS OF 10d (3" X 0.131") NAILS: SPACED @ 4" OC INTO ALL MEMBERS. DRIVE NAILS THROUGH BOTH GUSSETS AND CLINCH. STAGGER SPACING FROM FRONT SIDE TO BACK SIDE FOR A NET 2" OC SPACING IN THE TRUSS MEMBER.

-0-3-8	6-1-15	12-2-1	18-2-4	24-2-7	30-2-9	36-4-8
0-3-8	6-1-15	6-0-3	6-0-3	6-0-3	6-0-3	6-1-15

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.34	K	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-1.04	K-L	>414	180	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	-0.01	H	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 230 lb	FT = 10%
BCDL	10.0											

LUMBER-

TOP CHORD 2x6 SP No.2 *Except* T1: 2x6 SP No.1
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W13: 2x6 SP No.2, W2: 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

July 30, 2024

Job	Truss	Truss Type	Qty	Ply	Roof
2401009-RF	0301T-B	SLOPING FLAT	45	1	D1075

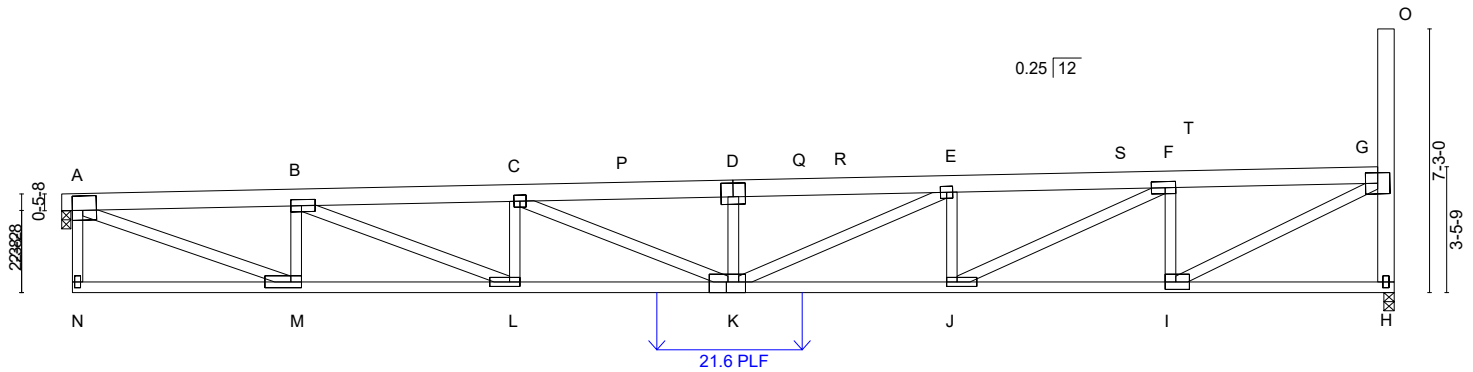
Job Reference (optional)

8.630 s Apr 20 2023 MiTek Industries, Inc. Mon Mar 25 09:17:45 2024

REPAIR:

1) ADDITIONAL 21.6 PLF UNIFORM DEAD LOAD APPLIED TO BOTTOM CHORD J-L STARTING FROM 16' 4-1/2" TO 20' 4-1/2" FROM THE LEFT END AS SHOWN.

- NOTE - THIS REPAIR IS VALID FOR THE DESIGN CONDITIONS PROVIDED IN THIS TRUSS REPAIR DRAWING. IT'S ADEQUACY FOR THE ACTUAL CONDITIONS MUST BE VERIFIED BY OTHERS.
- REFER TO ORIGINAL TRUSS DESIGN DRAWING FOR ADDITIONAL NOTES.
- IF TRUSS IS IN PLACE, SHORE UP TRUSS TO RELIEVE ANY LOAD IT MAY BE SUPPORTING BEFORE BEGINNING REPAIR.
- UNLESS OTHERWISE SPECIFIED, REMOVE ALL ELECTRICAL, MECHANICAL, PLUMBING, ETC. RUNS INTERFERING WITH THE REPAIR MATERIALS AND RE-ROUTE. DO NOT CUT, DRILL, NOTCH, OR MODIFY REPAIR MATERIALS.



*** NO REPAIR(S) REQUIRED ***

	0-3-8	6-1-15	12-2-1	18-2-4	24-2-7	30-2-9	36-4-8
	0-3-8	6-1-15	6-0-3	6-0-3	6-0-3	6-0-3	6-1-15

LOADING (psf)

TCLL (roof)	20.0
Snow (Pf)	20.0
TCDL	15.0
BCLL	0.0
BCDL	10.0

SPACING-	2-0-0
Plate Grip DOL	1.15
Lumber DOL	1.15
Rep Stress Incr	NO
Code	IBC2018/TPI2014

CSI.	
TC	0.90
BC	0.72
WB	0.97
Matrix-S	

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	-0.34	K	>999	240
Vert(CT)	-1.04	K-L	>414	180
Horz(CT)	-0.01	H	n/a	n/a

PLATES	**GRIP**
MT20	244/190
M18AHS	186/179

Weight: 230 lb FT = 10%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* T1: 2x6 SP No.1
BOT CHORD	2x4 SP DSS
WEBS	2x4 SP No.2 *Except* W13: 2x6 SP No.2, W2: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-9-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

July 30, 2024

MAY 2017	NAIL CLINCHING DETAIL	ST-CLINCH	D1075

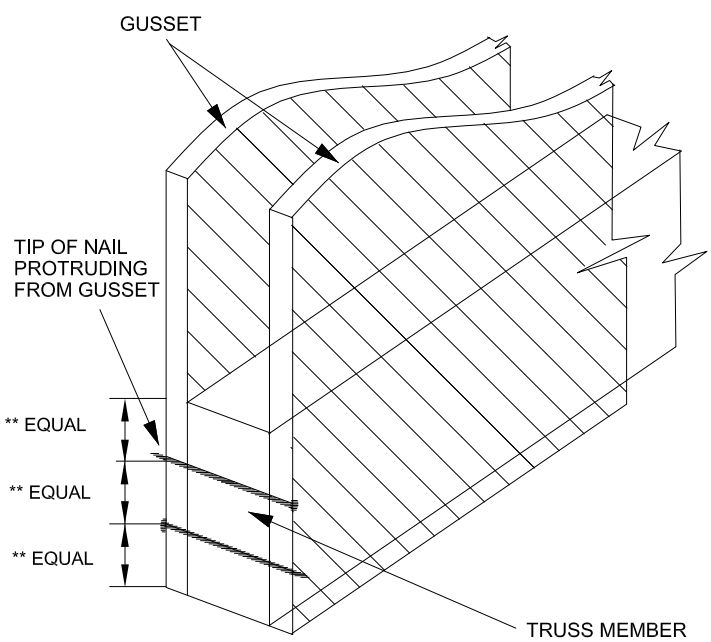


FIGURE 1

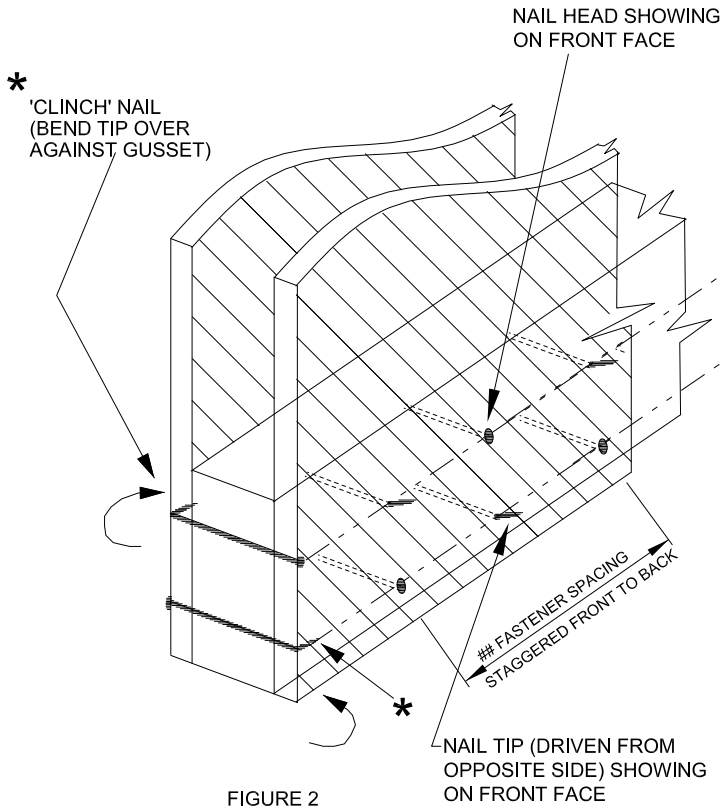


FIGURE 2

** ROWS ARE TO BE EQUALLY SPACED $\pm \frac{1}{2}$" FROM TOP OF TRUSS MEMBER TO BOTTOM OF TRUSS MEMBER.

FASTENER SPACING IS TO BE AS CALLED OUT ON THE REPAIR DRAWING $\pm \frac{1}{2}$".
STAGGER SPACING FROM FRONT SIDE TO BACK SIDE = $\frac{\text{FASTENER SPACING}}{2} \pm \frac{1}{2}$".

REPAIR DRAWINGS OFTEN INDICATE THAT THE SPECIFIED NAILS MUST BE 'CLINCHED'. THIS PROCESS REQUIRES THE GUSSETS TO BE APPLIED TO THE FRONT AND BACK FACES OF THE TRUSS PRIOR TO NAILING. THE NAILS ARE DRIVEN THROUGH THE FIRST GUSSET, THE TRUSS, THEN THE BACK GUSSET. THE NAILS ARE NOW PROTRUDING OUT OF THE BACK GUSSET (SEE FIGURE 1). THE NEXT STEP IS TO HAMMER THE PROTRUDING TIP OF THE NAIL OVER AGAINST THE FACE OF THE BACK GUSSET (SEE FIGURE 2).

IT IS IMPORTANT THAT THE GUSSETS ARE TIGHT AGAINST EACH FACE WHEN NAILING. THIS MAY BE ACHIEVED BY CLAMPING OR SCREWING THE GUSSETS TO THE TRUSS. IF SCREWS ARE USED, APPLY ONLY ENOUGH TO SECURE THE GUSSETS DURING NAILING.

PLEASE NOTE THAT APPLYING ONE GUSSET AND NAILING IT COMPLETELY, THEN APPLYING THE SECOND GUSSET ONLY PROVIDES APPROXIMATELY 75 PERCENT OF THE DESIGNED STRENGTH. THIS IS NOT AN ACCEPTABLE METHOD OF ATTACHMENT !

IT IS ACCEPTABLE TO APPLY ALL NAILS FROM ONE FACE. HOWEVER, DRJ RECOMMENDS NAILING FROM OPPOSITE FACES IN A STAGGERED PATTERN AS INDICATED IN THE DETAILS SHOWN.

WHEN ATTACHING GUSSETS, THE USE OF A BACK-UP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES. THIS ALSO PREVENTS THE TRUSS FROM DEFLECTING LATERALLY DURING APPLICATION OF THE REPAIR, PROVIDING EASIER NAILING.

July 30, 2024

DrJ Reference Sheet

WARNING! Always review the handling, storage, installation, lateral restraint & diagonal bracing information provided by the Truss Manufacturer (TM) through their delivery of the Truss Submittal Package (TSP). Do not cut or alter any part of a Truss or Structural Element. Never stack building material without proper lateral restraint & diagonal bracing. Never overload/exceed the design load shown on any TDD or Structural Element Design Drawing (SEDD). Property damage &/or personal injury happen when there is complacency regarding safety items. DrJ presumes the TM submits their TSP to be reviewed, approved & used by one or more of the following; building Owner, Building Official, Building Designer, Registered Design Professional in Responsible Charge, Contractor &/or Framer.

SCOPE OF WORK AND DEFINITIONS

The Truss Manufacturer (TM) has obtained, through TM's Customer, the Truss Design Criteria (TDC) & Truss design requirements from the Construction Documents &/or the Construction Professionals. The TM has Communicated the TDC & any related Truss design requirements to DrJ. This Communication includes transfer of TDC & any related Truss design requirements using proprietary Truss industry Software. DrJ designs each individual Truss, as illustrated on each TDD, relying upon the accuracy & completeness of Communicated information.

DrJ presumes that the Communicated TDC & Truss design requirements conform to ANSI/TPI 1-2014, National Design Standard for Metal Plate Connected Wood Trusses (TPI 1). This includes but is not limited to:(a) allowable vertical, horizontal or other required deflection criteria;(b) any lateral thrust developed by scissors-type Trusses; (c) modeling requirements for scissors trusses;(d) any dead load, live load & in-service creep deflection criteria for floors or flat roofs;(e) any floor or roof camber requirements;(f) any Truss-to-Truss or Truss-to-adjacent structural member differential deflection criteria;(g) any special floor truss deflection criteria &/or vibration criteria including but not limited to strongback bridging requirements;(h) any dead load, live load, & in-service creep deflection criteria for floors supporting stone or ceramic tile finishes;(i) any conditions where moisture, temperature, corrosive chemicals & gases are expected to result in a wood moisture content exceeding 19% &/or sustained temperatures exceeding 150°F; (j) any conditions where wood preservatives or other sources of corrosion may affect the truss design;(k) standard & unique design loads;(l) standard & unique truss spacing; & (m) building code used for the design of the Building Structural System.

DrJ designs each individual Truss, as illustrated on each TDD, relying upon the accuracy & completeness of Communicated information.

The seal on the Cover/Truss Index Sheet & on the individual TDD represents acceptance of responsibility for the review of the TDC & the design of each individual Truss. Each Truss then becomes one element of a Building Structural System (BSS). For any other BSS information needed, please contact the TM, &/or any of the following Construction Professionals; the building Owner, Building Designer, building Registered Design Professional in Responsible Charge, &/or Contractor (e.g., general, MEP, Framer, etc.).

DrJ is a professional engineering company, which is defined as an Approved Source. In addition, DrJ is an ANAB accredited ISO/IEC 17065 Approved Agency. Building Official Acceptance of an Approved Source is determined by the Approved Source employing properly licensed professional engineers. Similarly, acceptance of an Approved Agency is by the Approved Agency being a properly accredited third party certification body. The DrJ scope of work is to undertake the structural analysis needed to create the TDDs listed here. TDDs prepared by DrJ are Instruments of Service for use solely for the named Project. This includes documents in electronic form. DrJ shall be deemed the author & owner of its Instruments of Service & shall retain all copyrights, common law statutory & other reserved rights. The Instruments of Service shall not be used by anyone for future additions or alterations of this Project or for other Projects without prior written instruction by DrJ. Any unauthorized use of the Instruments of Service shall be at the sole risk of the TM &/or other user & DrJ shall not have liability for this use. As permitted by the applicable material chapters & referenced standards of the listed building code, DrJ structural design may use strength design, load & resistance factor design, allowable stress design, empirical design, &/or conventional construction methods, as pertinent. The TDD defines the individual Truss that safely supports the factored loads or nominal loads, in load combinations defined in the listed building code, without exceeding the appropriate strength limit states or allowable stresses, as pertinent.

For its engineering evaluation & structural design work, DrJ relies upon the accuracy of published raw material (e.g., lumber, OSB, etc.) & manufactured product design values (e.g., I-joists, LVL, wood structural panels, metal connector plates, fasteners, etc.). In addition, DrJ relies upon a product manufacturer's published product, material, design &/or method of construction pursuant to an ISO/IEC 17065 technical evaluation report or a sealed & signed report, which include but is not limited to design values, applications, conditions of use, quality, installation, bracing, & repair requirements. DrJ makes no representation or warranty with respect to raw material or manufactured product performance.

When the TM has provided a Truss Placement Diagram (TPD) in its TSP, it is an Illustration that identifies the assumed location of each individually identified Truss to aid Truss installation. Contact the TM for questions regarding the TPD &/or Truss installation. The TM is responsible for supplying the truss-to-truss connector type. Contact the TM for questions regarding truss-to-truss connector type, application &/or installation.

All dimensions are reproduced from the referenced Building Designer's plans.

Capitalized terms and responsibilities are defined pursuant to the applicable building code, applicable reference standards, the latest edition of TPI 1, the National Design Specification® for Wood Construction (NDS), applicable professional engineering law, Appendix A Commentary/Definitions, Appendix B: Project/Deliverables, definitions created within Design Drawings &/or definitions within Reference Sheets. Terms not defined shall have ordinarily accepted meanings as the context implies.

Compliance with the referenced building code is confirmed when: 1) the "for construction" TDDs have been examined for conformance with the local building code & requirements of pertinent laws, 2) any non-conformance is provided in writing to DrJ stating the reasons for the non-conformance, 3) the non-conformance is cured, 4) the plan examination & approval of the TDDs is complete, & 5) required inspections are complete.

All pages of this document must be presented together to be considered complete.

TRUSS DESIGN

The Truss Manufacturer (TM) has obtained, through TM's Customer, the Truss Design Criteria (TDC) & Truss Each TDD is created by various Software developers & produces engineering analysis. Software generates framing layout, design, manufacturing, &/or management data/output consistent with the TM's business procedures, inventory & Selectable Software Parameters. Software is used under a Software license agreement between the TM & Software developer.

Reliance upon the Software company, by the TM and DrJ, includes but is not limited to; all Software warranties, its use of accepted engineering mechanics models, its use of appropriate design equations, its use of accurate mathematical analysis, its use of any needed calibration to testing, its accuracy in the context of TPI 1 &/or NDS requirements, that output derived from the Software is appropriate for the pertinent building code & for the end use intended when used in accordance with Software instructions & guidance from the Software developer, & any unique characteristics delineated by the Software output for each singular Truss & its TDD or TRD. Given Service reliance upon proprietary Software, DrJ cannot be responsible for any interruption of the use of Software outside of the control of DrJ. Each TDD indicates the minimum lumber species, size & grade required to be used. Lumber with higher Design Values can be substituted.

Each TDD indicates the plate type, minimum size, orientation, & location for each truss joint. Use of Metal Plate Connectors (MPCs) with wider widths &/or longer lengths of the same gauge are permitted.

Each TDD presumes that the top chords are sheathed or continuous lateral restraint members (i.e., purlins) are provided at the spacing indicated on TDD (e.g., 24 in. o.c. maximum). Graphical representation of lateral restraint members (i.e., web member restraint, purlins, etc.), if shown on the TDD, do not illustrate the size or orientation of the restraint along the top chord, bottom chord &/or web members.

Attachment of a purlin gable (e.g., hip frames, lay-in gables, etc.) to the supporting hip Trusses satisfies the compression bracing requirements for the top chord of hip Trusses. Refer to the TDD to locate hip Trusses that have been designed to have this type of top chord compression bracing.

Sheathing applied in the plane of the Truss is NOT considered in the design of the individual Truss unless specifically noted otherwise (i.e., a Gable End Truss has not been designed using composite stiffness analysis). Each TDD presumes Trusses are installed vertically. Each TDD presumes dry & non-treated lumber is used.

When fire-retardant, preservative-treated, or green lumber is used it is specifically noted on each TDD where it is used.

DrJ presumes that the Truss depicted on each TDD meets the minimum manufacturing quality requirements specified in Chapter 3 of TPI 1 so that design assumptions are met. DrJ also relies upon quality assurance being performed by an accredited agency (e.g. ISO/IEC 17020, professional engineer, etc.). DrJ makes no representation or warranty regarding the performance of each manufactured Truss.

CONSTRUCTION MATERIALS: Lumber, Metal Plate Connectors & Other Fasteners

Commodity lumber Design Values, specified in the NDS, are defined as strength & stiffness property values of structural lumber products published for design use. These values are determined for specific grades & species/species groups. Sawn lumber used for load-supporting purposes, including end-jointed, edge-glued, machine stress-rated or machine-evaluated lumber, shall be identified by the Grade mark of a lumber grading or inspection agency that has been approved by an Accreditation Body that complies with the latest edition of the DOC PS 20 American Softwood Lumber Standard or equivalent. Approved end-jointed lumber is permitted to be used interchangeably with solid-sawn members of the same species & grade. End-jointed lumber used in an assembly required to have a fire-resistance rating shall have the designation "Heat Resistant Adhesive" or "HRA" included in its grade mark. DrJ relies upon each lumber manufacturer to provide building code conforming Design Values, conditions of use, quality, & repair requirements as well as compliance with DOC PS 20 & the NDS Supplement, as pertinent.

MPCs are presumed to be manufactured, tested & identified in accordance with TPI 1. The design & performance of each Truss rely upon the MPC manufacturer's published ISO/IEC 17065 technical evaluation report &/or a sealed & signed Research Report that delineates design values, performance, application, installation, conditions of use, quality, & repair requirements.

The NDS provides design values for generic fastener types (e.g., bolts, nails, wood screws, spikes, timber rivets, drift pins, steel side plates, etc.) Structural capacities for commodity & proprietary fastener types & steel side plates are presumed to be established, monitored, manufactured & identified in accordance with ASTM A36, ASTM A153/A153-16A, ASTM A307, ASTM A576, ASTM A576 GR1015 Modified, ASTM F606/F606M, ASTM A641/A641M, ASTM A653 Structural Grade (GR) 33, ASTM A653M SR 33, ASTM A675 GR60, ASTM A1011 SS GR33, ASTM D1761, ASTM D5764, ASTM D7147, ASTM F606/F606M, ASTM F680, ASTM F1575, ASTM F1667, including Supplement 1, ASTM F3359, &/or ASTM SAE J429 GR 2, as pertinent. For proprietary manufactured structural fastener products & steel side plates, DrJ relies upon the manufacturer's published ISO/IEC 17065 technical evaluation report &/or a sealed & signed Research Report that delineates design values, performance, application, installation, conditions of use, quality, & repair requirements.

DrJ relies upon quality assurance being performed by an Approved Agency &/or Approved Source (e.g., ISO/IEC 17020, professional engineer, etc.).

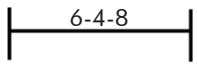
DrJ makes no representation or warranty & is not liable for: 1) the accuracy of the TM's Communication, 2) lumber Design Values, 3) MPC design values, 4) the accuracy of Software, 5) building code compliance of any Structural Element as used in the BSS, 6) the existence of Grade Marks on lumber 7) the contents of any TSP &/or 8) the design values, quality or installation of any commodity or proprietary product. In addition to this DrJ Reference Sheet, Appendix A Commentary/Definitions & Appendix B Project/Deliverables, contain pertinent information.

The DrJ Reference Sheet will be updated annually on 12/31 of each year & supersedes all prior versions & understandings with respect to the DrJ Reference Sheet.

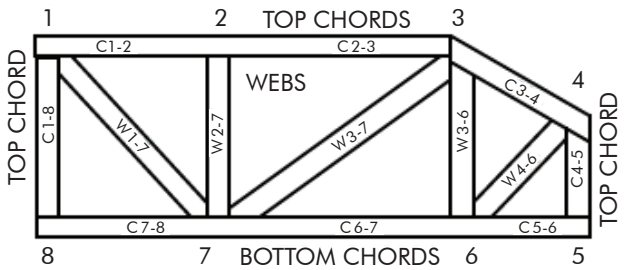
The DrJ Reference Sheet may also be updated periodically during the year upon Communication of DrJ to TM.

D1075

NUMBERING SYSTEM



dimensions shown in ft-in-sixteenths
(Drawings not to scale)



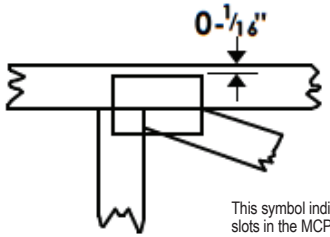
JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x,y offsets are indicated.
Dimensions are in ft-in-sixteenths (x-x-x).
Apply MCPs to both sides of Truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0 - 1/16" from outside edge of Truss.

This symbol indicates the required direction of slots in the MCP.

This symbol indicates the required direction of slots in the MCP.

*MCP location details available upon request from TM

MCP SIZE

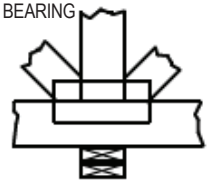
4 x 4

The first dimension is the MCP width measured perpendicular to slots. Second dimension is the MCP length parallel to slots.

LATERAL RESTRAINT LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T-, L-, or I-Reinforcement or proprietary bracing if indicated.
NOTE - LATERAL RESTRAINTS MUST BE BRACED. REFER TO BCSI OR AS SPECIFIED BY THE BD.

BEARING



Indicates location where bearings (supports) occur. Locations vary but reaction section indicates joint number where bearings occur.

Dave Earnhart Jul 30, 2024, 12:11 PM (22 hours ago)
to Justin, me

Translate to Chinese ×

Jean, I have reviewed the loads you are adding. You are good to proceed with everything except the grease and condensation hoods. The trusses here will require repairs to accommodate this loading. I have sent those trusses to our engineer and will pass those on to you as soon as I get them back. Thanks,

Dave Earnhart
Office: 479-783-8666
Direct: 479-259-0035
Email: dearnhart@capstructures.com

2806 Towson Avenue . Fort Smith, AR . 72901

Roof Truss elevation for additional mechanical weight at Magic Noodle #2

Inbox

Jean K

Re: Magic Noodles 1020 NW Pryor Road Suite 102 Lee's Summit, Mo Capital Structures Job #2401009-RF Hi Dave, Please see the attached drawing for the additional m

Dave Earnhart

to Justin, me

Translate to Chinese

Jean, I have reviewed the loads you are adding. You are good to proceed with everything except the grease and condensation hoods. The trusses here will req our engineer and will pass those on to you as soon as I get them back. Thanks,

Dave Earnhart
Office: 479-783-8666
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