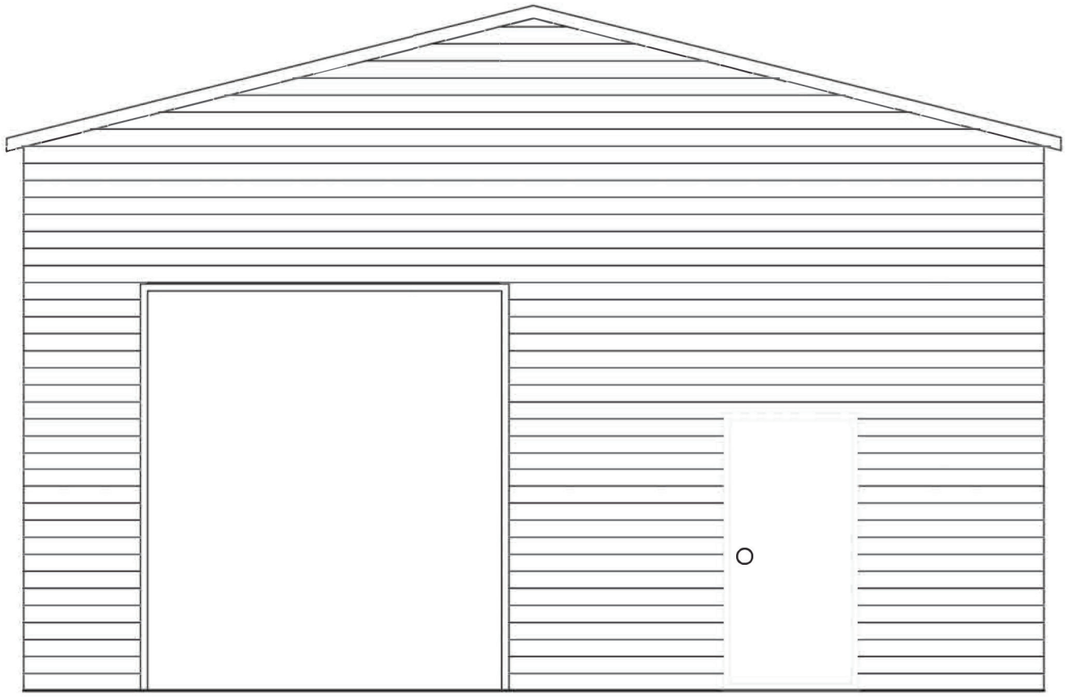
Karl Simms



ENCLOSED GABLE END BUILDING

30-0" WIDE 20'-0" EAVE HEIGHT BOX FRAME / (UP TO) 145 M.P.H. WIND ZONE -
35 P.S.F SNOW LOAD FOR CARPORTS & GARAGES ONLY

FOR

NC CARPORTS & GARAGES

116 EAST MARKET STREET

ELKIN,NORTH CAROLINA

#336-368-0668

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL SHARES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR SUBSEQUENT THEY CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF ANY DISCREPANCIES.

ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

IT IS IMPOSSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THE CONSTRUCTION DRAWINGS OF THE CONTRACTOR.

ISSUE	DATE	DESCRIPTION
XXX	XXXX	XXXX
XXX	XXXX	XXXX

SHEET NAME:
COVER PAGE

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER:
S0

PROJECT NUMBER: 21-021
DRAWN BY: BKS
CHECKED BY: MHR

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

Karl Simms



02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 BUILDING CODE OF ALABAMA (2021 IBC)



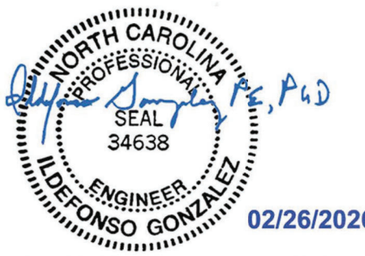
02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2024 IBC



02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 IBC



02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 BUILDING CODE OF North Carolina (2018 IBC)



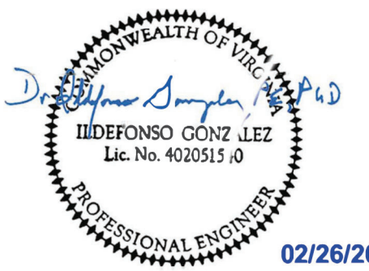
02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2015 IKENTUCKY BUILDING CODE (2015 IBC)



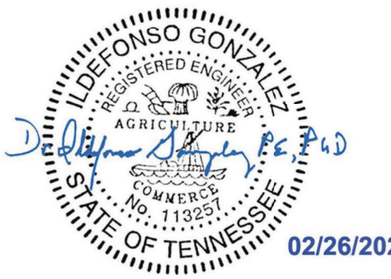
02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 IBC



02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 IBC



02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 BUILDING CODE OF NEW JERSEY (2021 IBC)



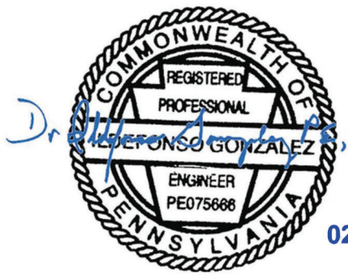
02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



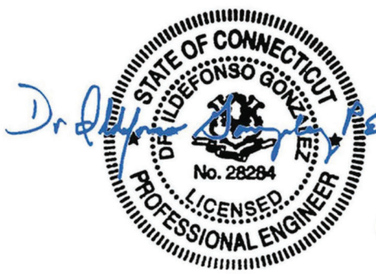
02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2024 IBC



02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



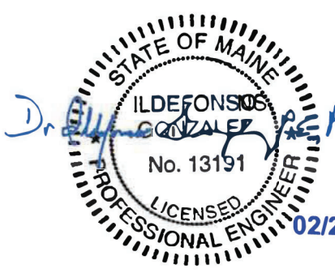
02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 IBC



02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE NINETH EDITION OF THE MA STATE BUILIDING CODE 2021



02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 IBC

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL SHOWN HERE AND ALL SUBCONSULTANTS AND CONSULTANTS RETAINED BY THE DESIGN PROFESSIONAL SHOWN HEREIN HAVE AN AGREEMENT WITH THE DESIGN PROFESSIONAL SHOWN HEREIN WHICH LIMITS THE LIABILITY OF THE DESIGN PROFESSIONAL SHOWN HEREIN AND ALL SUCH SUBCONSULTANTS AND CONSULTANTS RETAINED BY THE DESIGN PROFESSIONAL SHOWN HEREIN TO THE OWNER AND ALL CONTRACTORS ON THE PROJECT, DUE TO CLAIMS RELATED TO THE PLANS, SPECIFICATIONS, REPORTS OR OTHER PROFESSIONAL SERVICES PROVIDED BY THE DESIGN PROFESSIONAL SHOWN HEREIN OR BY ANY SUBCONSULTANTS OR CONSULTANTS RETAINED BY THE DESIGN PROFESSIONAL SHOWN HEREIN. THE OWNER AGREES TO FOLLOW THESE PLANS, SPECIFICATIONS, REPORTS AND OTHER PROFESSIONAL SERVICES AS PROVIDED BY THE DESIGN PROFESSIONAL SHOWN HEREIN AND ALL SUBCONSULTANTS AND CONSULTANTS RETAINED BY THE DESIGN PROFESSIONAL SHOWN HEREIN WITHOUT ANY EXCEPTIONS, CONDITIONS, MODIFICATIONS OR ALTERATIONS. THE OWNER AGREES TO CONSTRUCT THE PROJECT IN STRICT CONFORMANCE WITH ALL APPLICABLE CODES AND REFERENCED STANDARDS. THE OWNER AGREES TO HOLD THE DESIGN PROFESSIONAL SHOWN HEREIN AND ALL SUBCONSULTANTS AND CONSULTANTS RETAINED BY THE DESIGN PROFESSIONAL SHOWN HEREIN FREE FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR ALTERATION OF THE PLANS, SPECIFICATIONS, REPORTS AND OTHER PROFESSIONAL SERVICES PROVIDED BY THE DESIGN PROFESSIONAL SHOWN HEREIN TO THE EXTENT THAT SUCH MODIFICATION OR ALTERATION IS THE CAUSE OF THE CLAIMS, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES.

NOTE:
ANY USE OR REUSE OF CERTAIN DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS

NOTE:
IT IS UNDERSTOOD THE ENGINEER SHALL NOT BE PER CONSTRUCTION MEANS, METHODS, SEQUENCES, TECHNIQUES, OR PROCEDURES OF CONSTRUCTION EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS OR PERTAINING TO SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND IS NOT RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS SHALL REFERENCE THIS CLAUSE IN EACH OF THEIR SECTIONS.

COPYRIGHTS & RIGHTS
THE DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY THE ENGINEER ARE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT. THE ENGINEER SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO. THE OWNER SHALL BE PERMITTED TO RETAIN COPIES, INCLUDING REPRODUCIBLE COPIES, OF THE DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS FOR INFORMATION AND REFERENCE IN CONNECTION WITH THE OWNER'S USE AND OCCUPANCY OF THE PROJECT. THE DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS SHALL NOT BE USED BY THE OWNER OR OTHERS ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ENGINEER.

WITHHELD 915-09-86 (MCC)
THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF DOTec ENGINEERING WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AGREEMENT OF DOTec ENGINEERING. ALL REPRODUCTIONS OF THESE DRAWINGS, ALL OR IN PART, OR ANY USE OF THE IDEAS AND DESIGN PRESENTED HEREIN, FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF DOTec ENGINEERING IS PROHIBITED AND WILL BE SUBJECT TO LEGAL ACTION, AS APPROPRIATE. ALL RIGHTS TO THESE DRAWINGS ARE RESERVED UNPUBLISHED WORK ©2026 DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION

SHEET NAME
P.E. SEALS SHEET

ISSUE DATE 02/26/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET, ELKIN,NC,USA

SHEET NUMBER
S1

PROJECT NUMBER: MISC

DRAWN BY BKS

CHECKED BY MHR

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

Karl Simms

STATE OF VERMONT
DR. ILDEFONSO GONZALEZ
NO. 65573
STRUCTURAL
LICENSED
PROFESSIONAL ENGINEER

02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2015 IBC

ILDEFONZO GONZALEZ
REGISTERED
PE11011575
STATE OF
INDIANA
PROFESSIONAL ENGINEER

02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC

STATE OF NEW HAMPSHIRE
ILDEFONSO GONZALEZ ARTIGAS
No. 12459
LICENSED
PROFESSIONAL ENGINEER

02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE NINETH EDITION OF THE NH STATE 2021 INTERNATIONAL BUILIDING CODE

ILDEFONSO GONZALEZ
LICENSED PROFESSIONAL
ENGINEER
18514
STATE OF MISSISSIPPI

02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2024 IBC

STATE OF
ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
DR. ILDEFONSO GONZALEZ
No. 14154

02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET 2021 BUILDING CODE OF ARKANSAS (2021 IBC)

STATE OF LOUISIANA
ILDEFONSO GONZALEZ
License No. 0037839
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 BUILDING CODE OF LOUISIANA (2021 IBC)

STATE OF MARYLAND
ILDEFONSO GONZALEZ
No. 38651
PROFESSIONAL ENGINEER

02/26/2026

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 BUILDING CODE OF MARYLAND (2021 IBC)

Job# 2501090 Seal is for Structural Calculations and Drawings ONLY

02/27/2025

MOHAMED THABET AL HARASH
No. 13264
REGISTERED
PROFESSIONAL ENGINEER
STRUCTURAL

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 BUILDING CODE OF RHODE ISLAND (2018 IBC)

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DRAWER PROFESSIONAL SHALL HAVE AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR COMMENTS. THEY CANNOT BE HELD RESPONSIBLE FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO FOLLOW THE DRAWER PROFESSIONAL'S DESIGNS WITH RESPECT TO WORKMANSHIP, MATERIALS, CONSTRUCTION METHODS, CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND SPECIFICATIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO ESTABLISHMENT IN THE EVENT OF DISCREPANCIES OR CHANGES.

NOTE:
ANY USE OR REUSE OF CREWING, OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ANY CLAIMS, INJURIES, DAMAGES, LOSSES EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
IT IS POSSIBLE THE ENGINEER SHALL NOT BE PER CONSTRUCTION MEANS, METHODS, SEQUENCES, TECHNIQUES, OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT. "SUBMITTALS SHALL REVIEWED IN CONJUNCTION WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE CONTRACTOR.

GENERAL NOTES & NOTES

THE ENGINEER PREPARED THESE PLANS AND IS NOT RESPONSIBLE FOR, AND ASSUMES NO LIABILITY FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL OWNERS TO THE PLANS SHALL BE INFORMED AND MUST BE AWARE OF THE LIMITATIONS OF THESE PLANS.

WITHIN 1-15-08 SINCE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY MAY NOT TO BE REPRODUCED, ALTERED IN ANY WAY, OR DISCLOSED OR ACCEPTED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING.

ISSUE	DATE	DESCRIPTION
XXX	XXX	
XXX	XXX	
XXX	XXX	

SHEET NAME
P.E. SEALS SHEET

ISSUE DATE: 02/26/2026

CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET, ELKIN,NC,USA

SHEET NUMBER
S1A

PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHE

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

Karl Simms

SHEET INDEX

SHEET NUMBER	SHEET TITLE
S0	SEALED COVER SHEET
S1	P.E. SEALS SHEET
S1A	P.E. SEALS SHEET
S2	DRAWING INDEX
S3	GENERAL NOTES AND SPECIFICATIONS
S4	SIDE AND END ELEVATIONS
S5	TYPICAL RAFTER / COLUMN FRAME SECTIONS
S5A	TYPICAL RAFTER / COLUMN FRAME SECTIONS
S5B	TYPICAL RAFTER / COLUMN FRAME AND SIDE FRAMING SECTION
S6	COLUMN CONNECTION DETAILS (LACED COLUMN)
S6A	COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)
S6B	COLUMN CONNECTION DETAILS (LACED COLUMN)
S6C	COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)
S7	BASE RAIL ANCHORAGE
S7A	BASE RAIL ANCHORAGE
S7B	BASE RAIL ANCHORAGE
S7C	BASE RAIL ANCHORAGE
S7D	BASE RAIL ANCHORAGE
S7E	BASE RAIL ANCHORAGE
S7F	BASE RAIL ANCHORAGE
S7G	BASE RAIL ANCHORAGE
S9	TYPICAL END WALL OPENINGS FRAMING SECTIONS
S9A	TYPICAL SIDE WALL OPENINGS FRAMING SECTIONS
S10	CONNECTION DETAILS
S11	CONNECTION DETAILS
S12	CONNECTION DETAILS
S13	CONNECTION DETAILS
S14	CONNECTION DETAILS
S15	LEAN–TO OPTIONS
S15A	LEAN–TO CONNECTION DETAILS
S15B	LEAN–TO CONNECTION DETAILS
S15C	LEAN–TO CONNECTION DETAILS
S16	VERTICAL ROOF / SIDING OPTION END AND SIDE ELEVATION
S16A	VERTICAL ROOF / SIDING OPTION END SECTION
S16B	VERTICAL ROOF / SIDING OPTION SIDE SECTION
S17	SIDE WALL HEADER OPTIONS
S17A	END WALL HEADER OPTIONS

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE AT, OR ED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OF SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NOR PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION:
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
DRAWING INDEX

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER:
S2

PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHR

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

Karl Simms

DESIGN LOADS:

IMPORTANCE FACTORS	**WIND**	**(1w)** 1.00	
	SNOW	**(1s)** 1.00	
	SEISMIC	**(1e)** 1.00	
DEAD LOADS	**ROOF**	4	**P.S.F.**
	ROOF COLLATERAL	0	**P.S.F.**
LIVE LOADS	**ROOF**	20	**P.S.F.**
GROUND SNOW LOAD:		35	**P.S.F.** * **DRIFT LOAD HAS NOT BEEN CALCULATED**
WIND LOAD:	**BASIC WIND SPEED**	V 145	**M.P.H. (ASCE 7-16)**
	EXPOSURE CATAGORY	B	

SEISMIC DESIGN CATAGORY ☐ **A** ☐ **B** ☐ **C** ☐ **D**

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY I/II ***NOT FOR SLEEPING QUARTERS**

CAT(I) : INCLUDING BUILDINGS AS DESCRIBED IN SECTION 311 GROUP S2 PER IBC.

CAT(II) : - NOT FOR SLEPPING QUARTERS AND NOT USED FOR LIVABLE BUILDINGS & NOT FOR BUILDINGS AS DESCRIBED IN SECTION 310 PER IBC.

- USED FOR BUILDINGS AS DESCRIBED IS SECTION 306 GROUPS F1 & F2 PER IBC.

SPECTRAL RESPONSE ACCELERATION **Ss** 20.5 **%g** **S1** 8.8 **%g**

SITE CLASSIFICATION D ☐ **FIELD TEST** ☐ **PRESUMPTIVE** ☐ **HISTORICAL DATA**

BASIC STRUCTURAL SYSTEM (CHECK ONE)

.	**BEARING WALL**	.	**DUAL W/ SPECTRAL MOMENT FRAME**
X	**BUILDING FRAME**	.	**DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL**
.	**MOMENT FRAME**	.	**INVERTED PENDULUM**

ANALYSIS PROCEDURE . **SIMPLIFIED** X **EQUIVALANT LATERAL FORCE** . **MODAL**

LATERAL DESIGN CONTROL? . **EARTHQUAKE** X **WIND**

SOIL BEARING CAPACITIES:

PRESUMPTIVE BEARING CAPACITIES: 1,500 **P.S.F.**

GENERAL NOTES:

1. **MAX FRAME SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.**
2. **MAX. END-WALL COLUMN SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.**
3. **TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14ga. 50 K.S.I. MIN. UNLESS NOTED OTHERWISE.**
4. **ALL FASTENERS SHALL BE (2) #12 SELF TAPPING AT 9"o.c. UNLESS NOTED OTHERWISE.**
5. **1,500 P.S.F. ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.**
6. **THESE DRAWINGS ARE NOT APPLICABLE TO PARTIALLY OPEN / ENCLOSED OR OPEN BUILDINGS.**
7. **IF FRAME SPACING IS AT 48"oc (SIDE & END WALLS) – GROUND SNOW LOAD CAN INCREASE TO 43.5 P.S.F. (EXCLUDING DRIFT).**

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL ASSUMES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARE EITHER A DIRECT RESULT OF FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR GENERAL NOTES OR THE RESULT OF THE CONTRACTOR'S FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WHERE SPECIFIED IN ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED, BUILDING SHALL BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NOR PROVISIONS OF THE CONTRACT DOCUMENTS. SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION:
THE ENGINEER PREPARING THESE PLANS IS NOT TO BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE, AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR IS DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	
XXXX		

SHEET NAME:
GENERAL NOTES AND SPECIFICATIONS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER:
S3

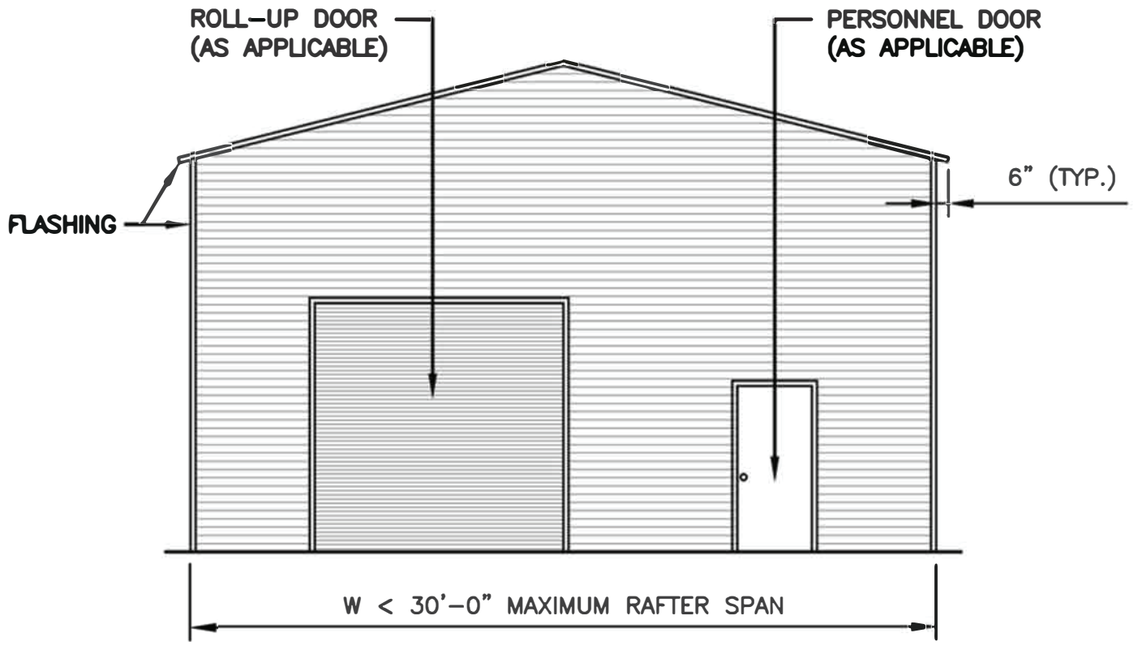
PROJECT NUMBER: MISC

DRAWN BY: BKS

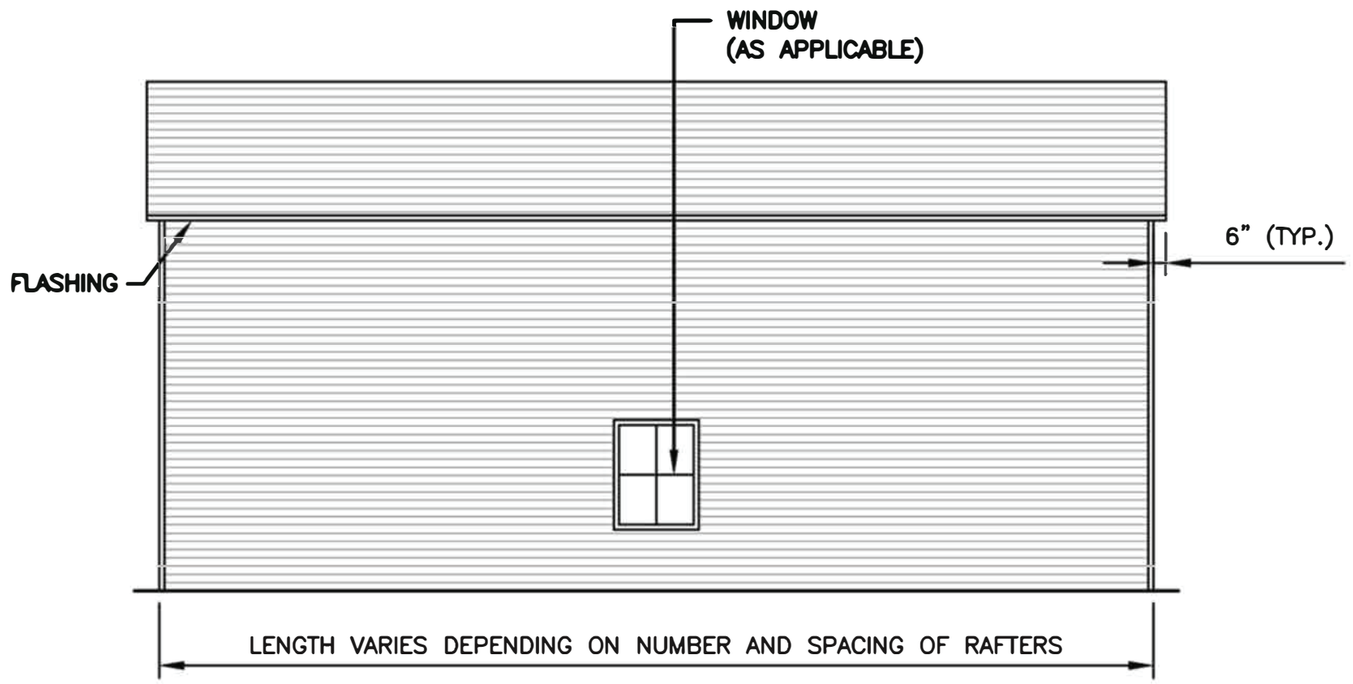
CHECKED BY: MHR

Karl Simms

BOX EVE FRAME RAFTER STURCTURE



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL ASSUMES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND OPY FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE AS SEEN. BUILDING TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF FIELD REVISION OR CHANGE.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION ME ANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NOT PROVISIONS OF THE CONTRACT CODUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & RISES
CAUTION:
THE ENGINEER PREPARING THESE PLANS SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE A INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
SIDE AND END ELEVATIONS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S4

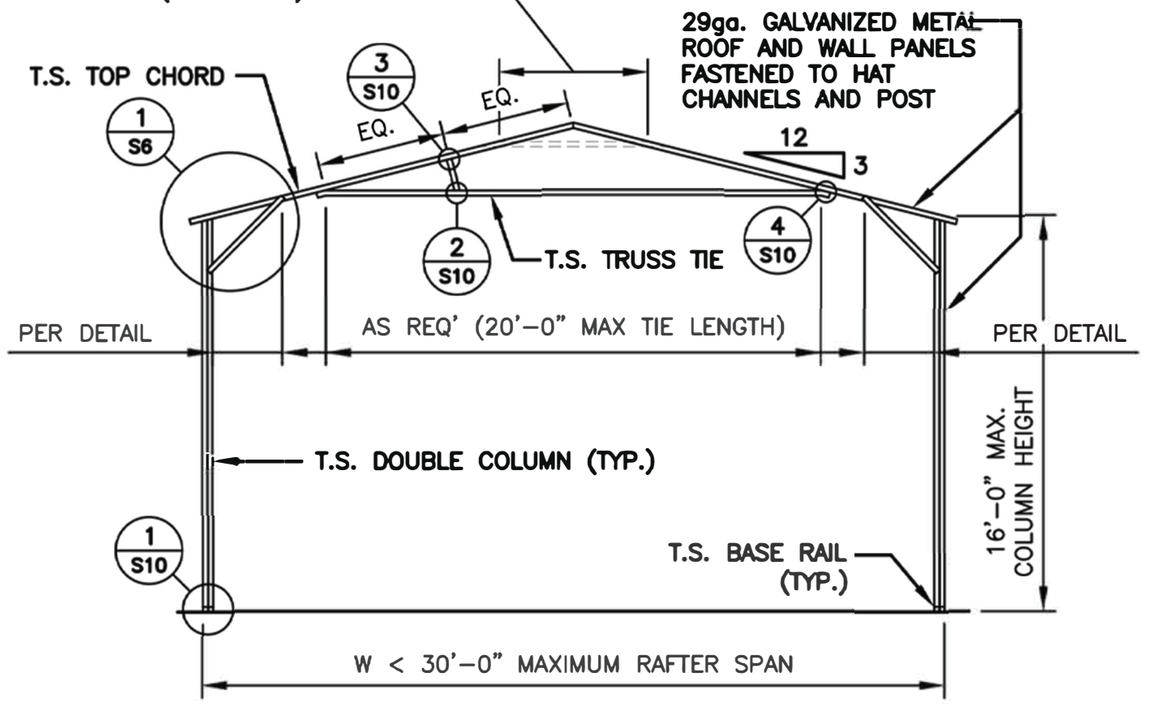
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

Karl Simms

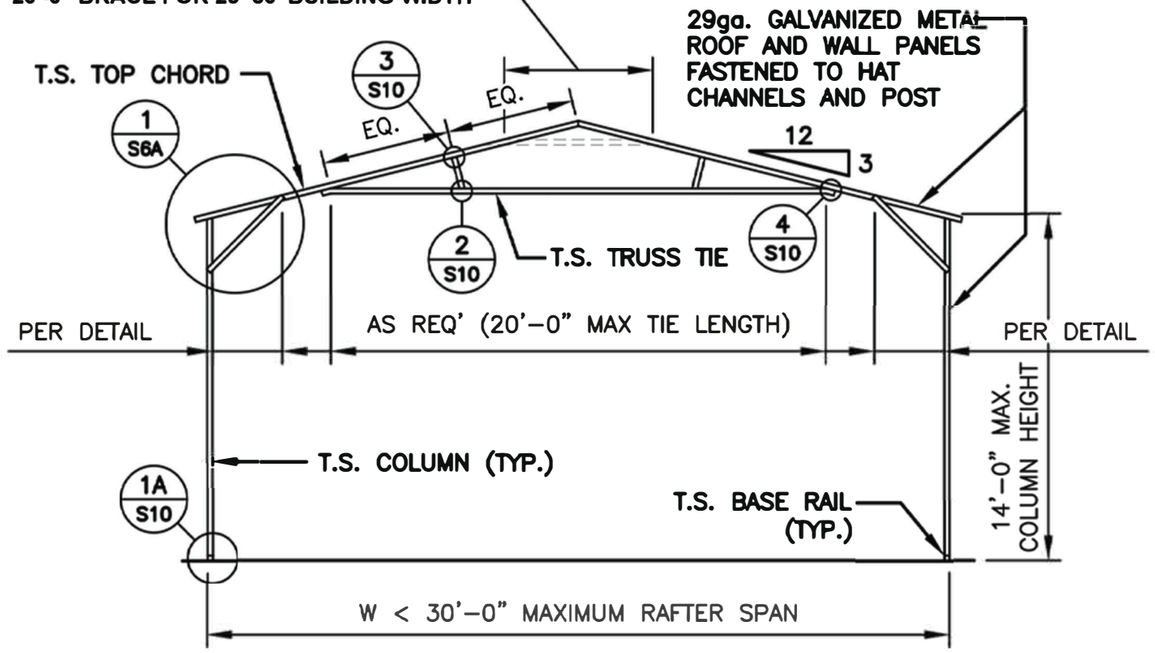
'U' BRACE TRUSS TIE – NOTE:
6'–0" BRACE FOR 21'–24' BUILDING WIDTH
20' TUBE TRUSS TIE (AS SHOWN) FOR 25'–30'



TYPICAL RAFTER / COLUMN FRAME SECTION

'U' BRACE TRUSS TIE - NOTE:
2'-0" BRACE FOR 12'-18' BUILDING WIDTH
4'-0" BRACE FOR 19'-20' BUILDING WIDTH
6'-0" BRACE FOR 21'-24' BUILDING WIDTH
20'-0" BRACE FOR 25'-30' BUILDING WIDTH

NOTE:
H.S.S. 2–1/2"x2–1/2"x14ga. OR 2–1/4"x2–1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN FRAME SECTION

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL BE THE ENGINEER OF RECORD FOR THE PROJECT, WHOSE SEAL AND SIGNATURE APPEAR ON THE CONSTRUCTION DOCUMENTS. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL PERFORM SITE VISITS AS REQUIRED BY SECTION 1704.6 AND DOCUMENT FULFILLMENT OF THE REQUIRED VISITS.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NOT PROVISIONS OF THE CONTRACT DOCUMENTS. SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
TYPICAL RAFER / COLUMN FRAME SECTIONS

ISSUE DATE: 02/28/2026

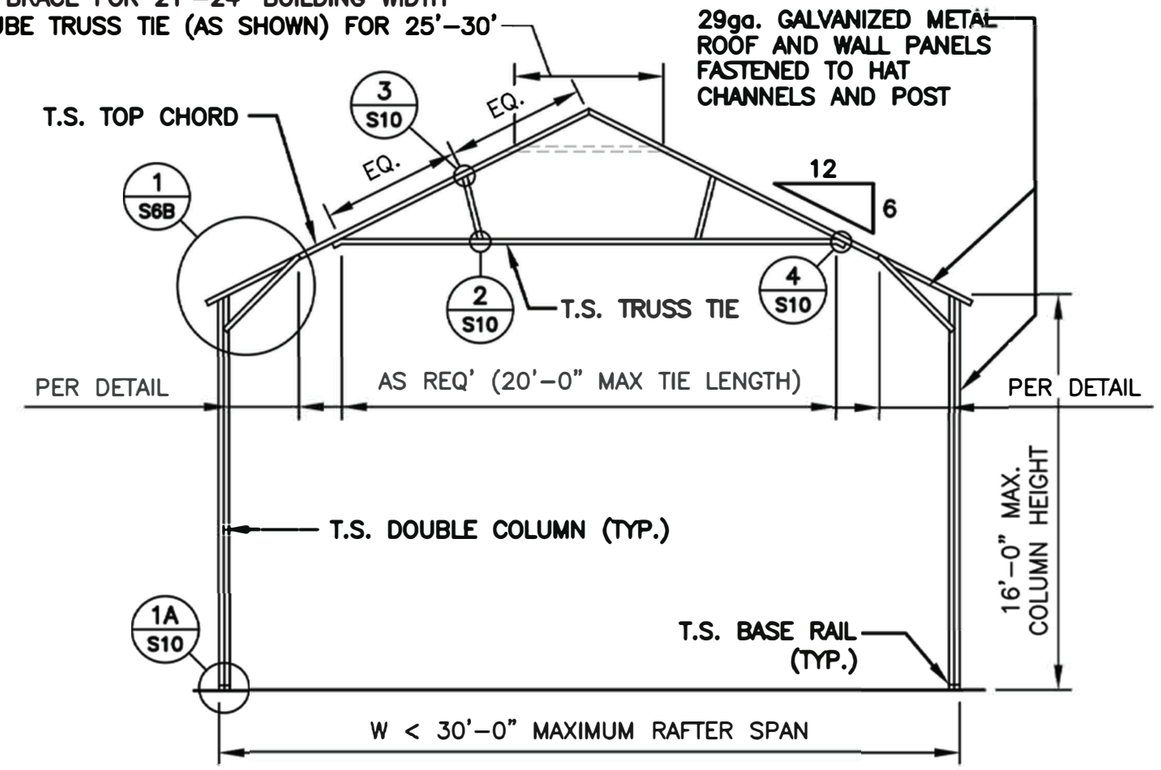
CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S5

PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHR

Karl Simms

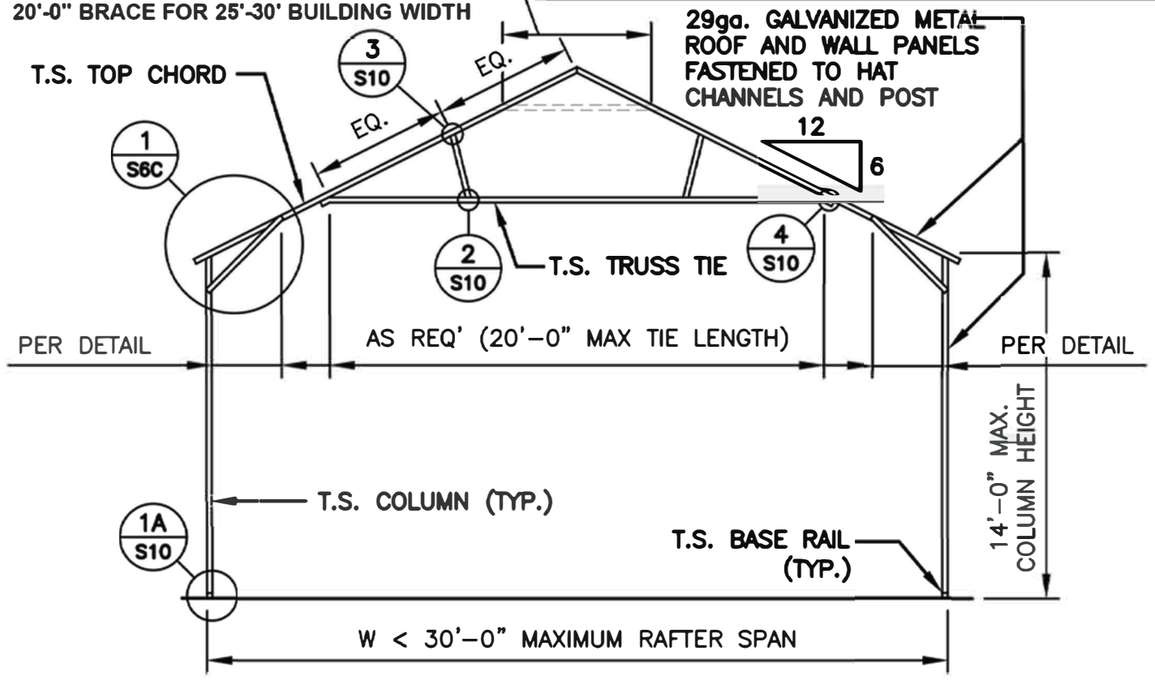
'U' BRACE TRUSS TIE – NOTE:
6'–0" BRACE FOR 21'–24' BUILDING WIDTH
20' TUBE TRUSS TIE (AS SHOWN) FOR 25'–30'



TYPICAL RAFTER / COLUMN FRAME SECTION

'U' BRACE TRUSS TIE - NOTE:
2'-0" BRACE FOR 12'-18' BUILDING WIDTH
4'-0" BRACE FOR 19'-20' BUILDING WIDTH
6'-0" BRACE FOR 21'-24' BUILDING WIDTH
20'-0" BRACE FOR 25'-30' BUILDING WIDTH

NOTE:
H.S.S. 2–1/2"x2–1/2"x14ga. OR 2–1/4"x2–1/4"x14ga.
MATERIAL MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN FRAME SECTION

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL ASSUMES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM DEVIATIONS, FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGE.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEYS FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE, AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ATTEMPTED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: TYPICAL RAFTER / COLUMN FRAME SECTOIONS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S5A

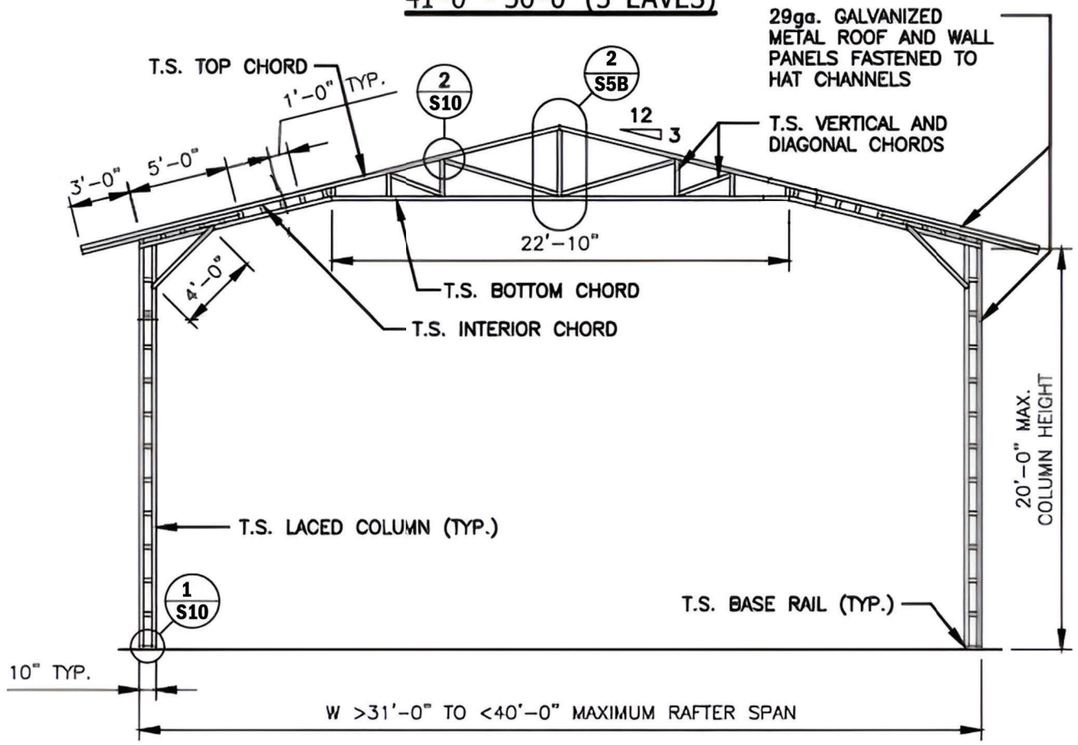
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

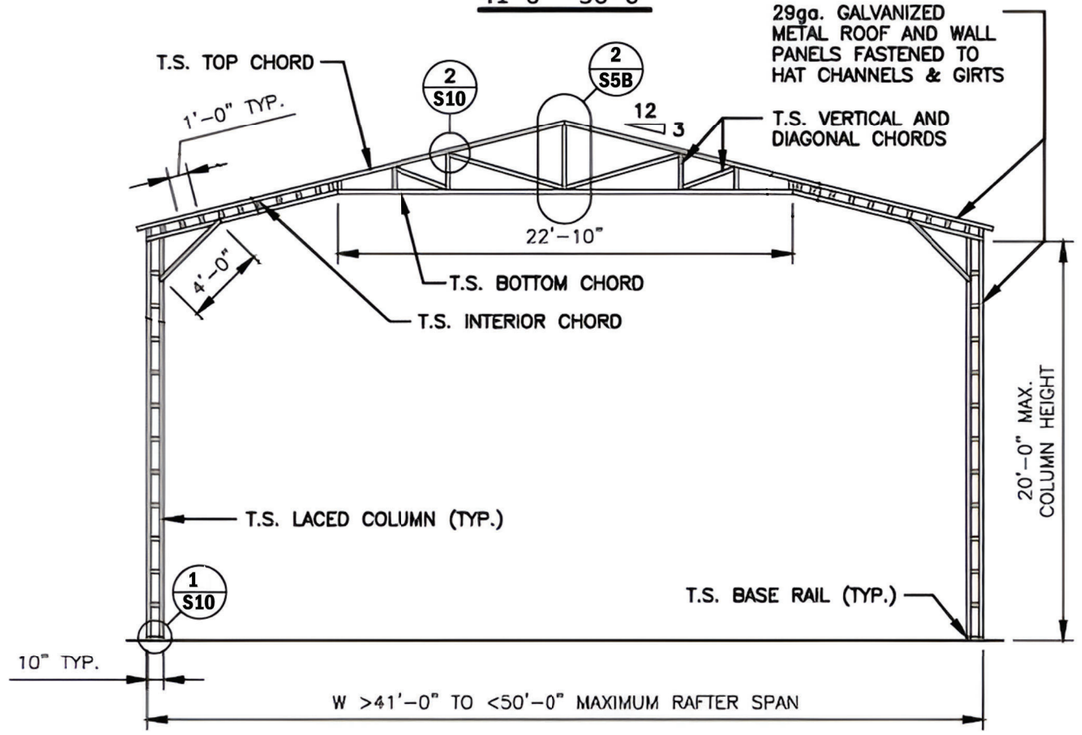
Karl Simms

41'-0" - 50'-0" (3' EAVES)



TYPICAL RAFTER / COLUMN FRAME SECTION

41'-0" - 50'-0"



TYPICAL RAFTER / COLUMN FRAME SECTION

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL WARNS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR SUBSEQUENT THEY CONVEY. ORDER PROBLEMS WHICH ARISE FROM CHANGES FAILURE TO OBTAIN AND CAREFULLY FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, C OF (CITE WHICH APPLIES) . SHOP DRAWINGS DO CONSTRUCTION IN THE EVENT OF DISCREPANCIES WITH ALL APPLICABLE CODES TO CONSTRUCTION IN THE EVENT OF DISCREPANCIES WITH ANY SHOP DRAWINGS.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR OF SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & REUSE
CAUTION!
THE ENGINEER PROVIDING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

COPYRIGHT © 2026
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY MAY NOT TO BE REPRODUCED IN ORAL, TYPED OR ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DO

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
(OPTIONAL) SPLICE CONNECTION DETAIL

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S5.2

PROJECT NUMBER: B2501090

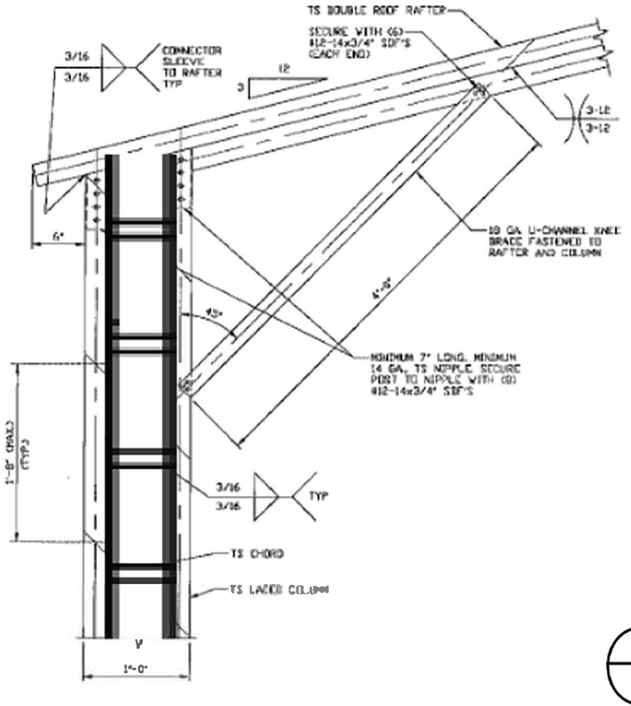
DRAWN BY: HMO

CHECKED BY: MHR

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

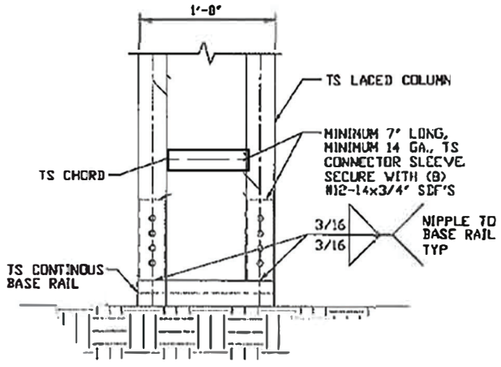
Karl Simms

CONNECTION DETAILS



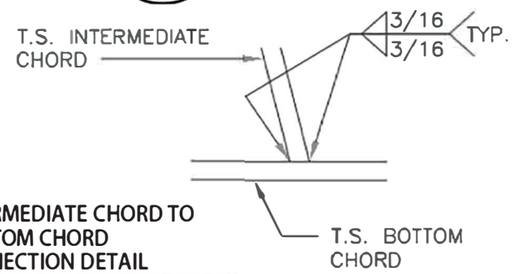
1 / S' BOX EAVE RAFTER COLUMN CONNECTION DETAIL 16' <20 ' HIGHTD 15' <TO< 20' FOR APPLICABLE RISK CAT WIND SPEED

N.T.S



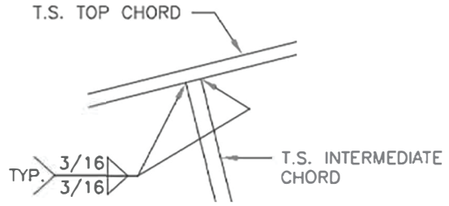
5 / S' LACED COLUMN /BASE PAIL CONN. DETAIL

N.T.S



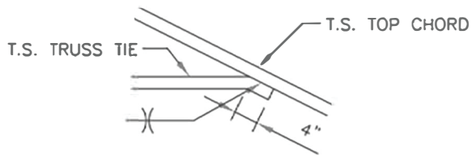
2 / S' INTERMEDIATE CHORD TO BOTTOM CHORD CONNECTION DETAIL

N.T.S



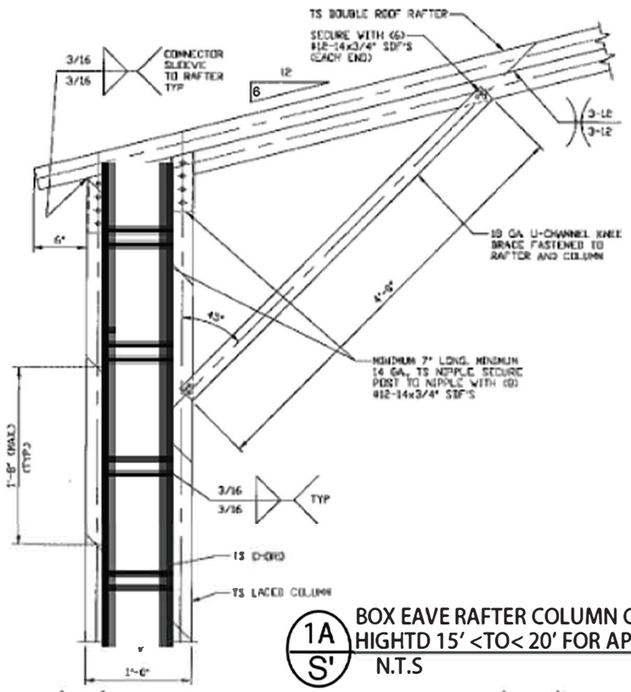
3 / S' INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL

N.T.S



4 / S' TRUSS TIE CONNECTION DETAIL

N.T.S



1A / S' BOX EAVE RAFTER COLUMN CONNECTION DETAIL 16' < TO <20 ' HIGHTD 15' <TO< 20' FOR APPLICABLE RISK CATEGORY WIND SPEED

N.T.S

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ASSUMES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM A FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT BY THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS UNLESS PROFESSIONALLY DIRECTED BY THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION. IN THE EVENT OF CODE REVISION OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEYS FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NOR PROVISIONS OF THE CONTRACT DOCUMENTS. SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARED OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE A INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
COLUMN CONNECTION DETAILS (LACED COLUMN)

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S6

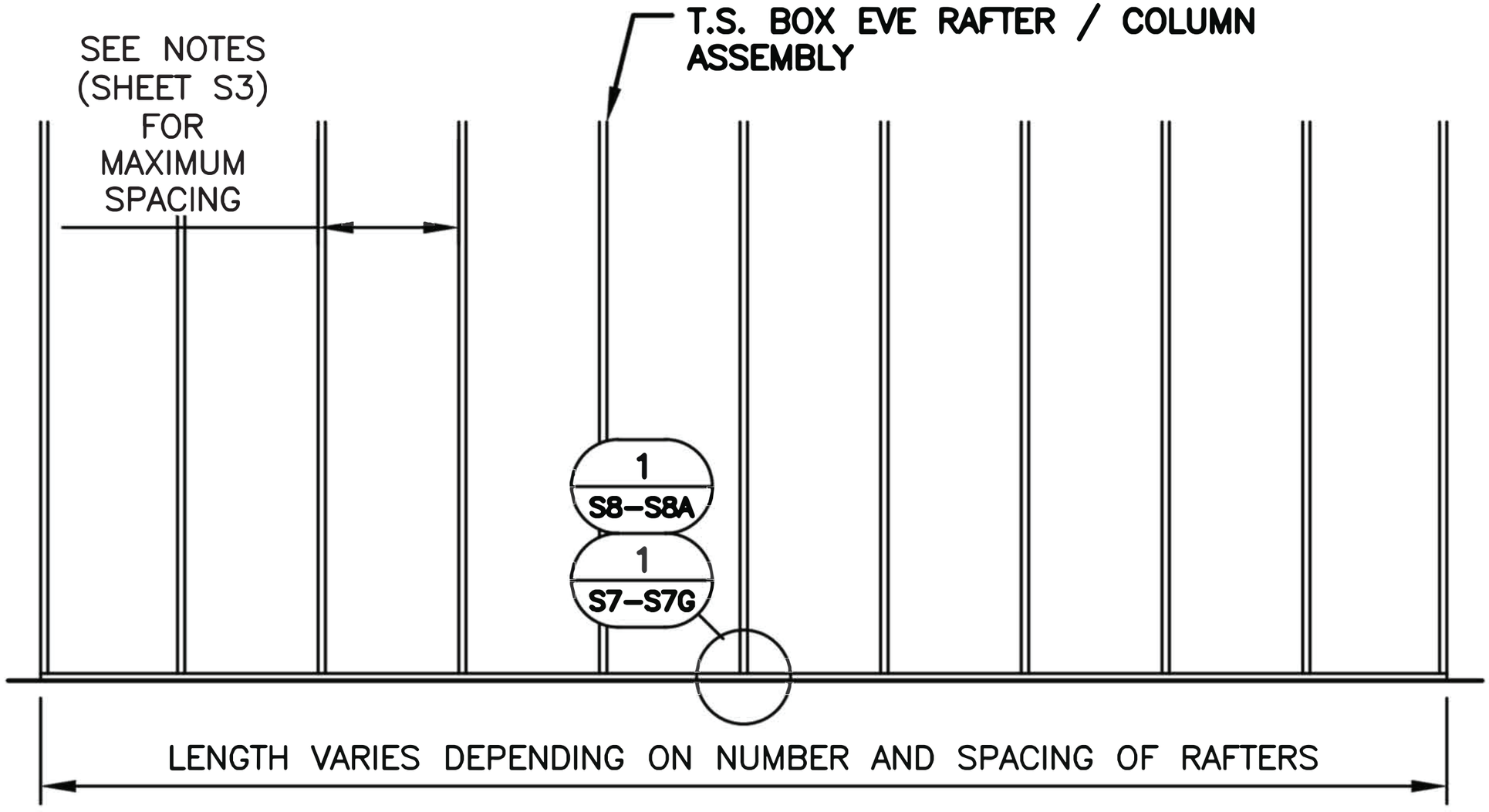
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

Karl Simms

NOTE:
H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN SIDE FRAME SECTION

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL OWNERS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND OR/ FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE AS YET UNDISCOVERED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY: THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR OF SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NOT RESPONSIBLE OF THE CONTRACT DOCUMENTS. SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & REUSE
CAUTION!!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE, AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING.

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
COLUMN CONNECTION DETAILS (LACED COLUMN)

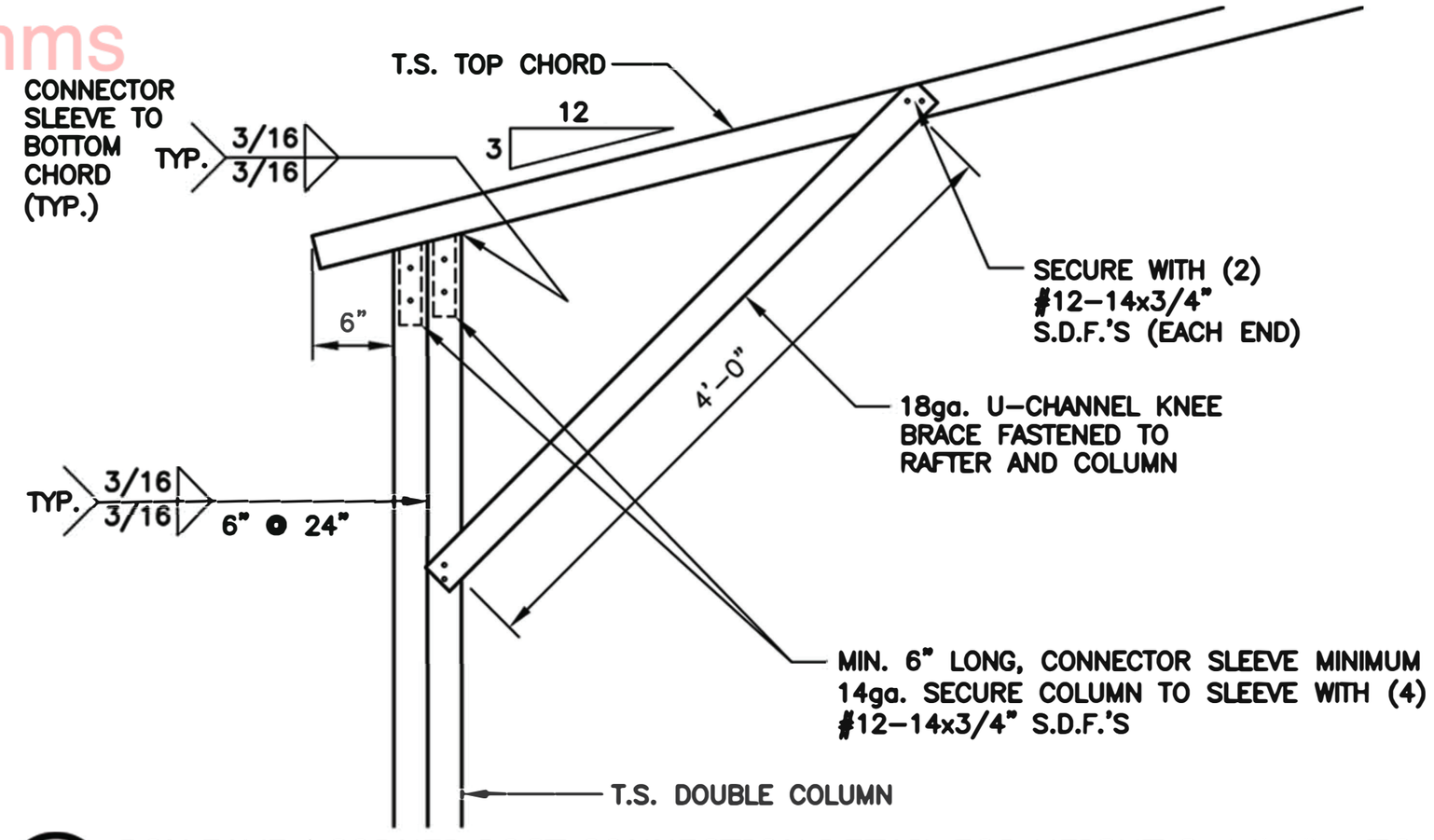
ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S6A

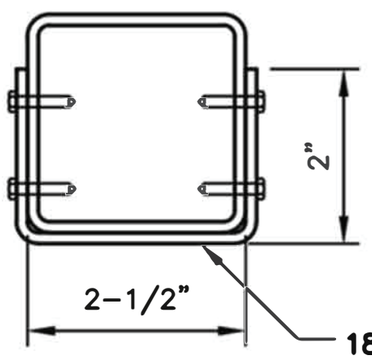
PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHR

Karl Simms



1/S6 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. 14'-1" < TO 16'-0"

SCALE 3/4" - 1'



BRACE SECTION

18ga. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH #12-14x3/4" S.D.F.'S AT EACH END AS SHOWN IN ELEVATION.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL OWNER ASSUMES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM THE OWNER'S FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NO PROVISIONS OF THE CONTRACT CODUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARED OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

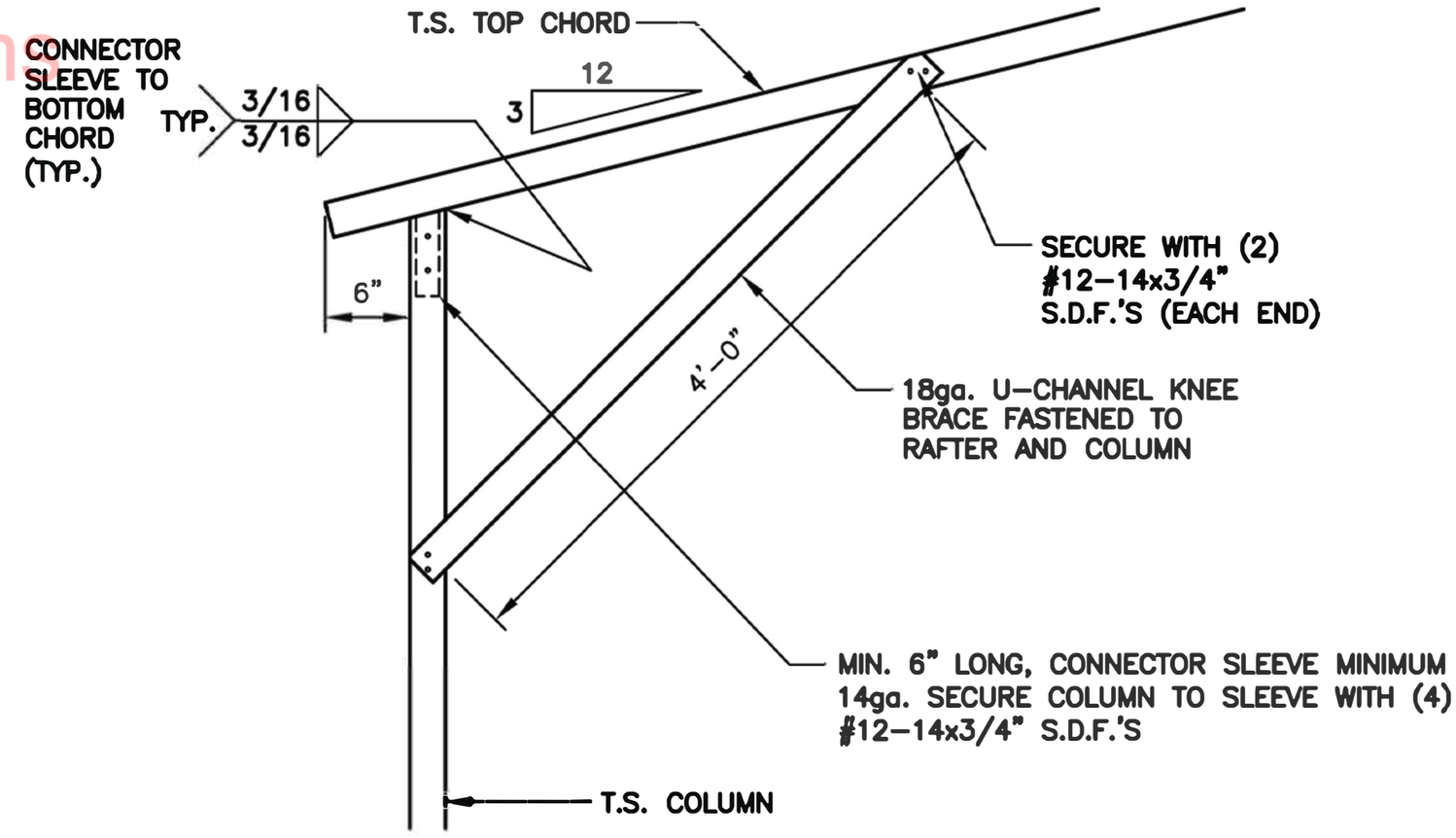
SHEET NUMBER: S6A

PROJECT NUMBER: MISC

DRAWN BY: BKS

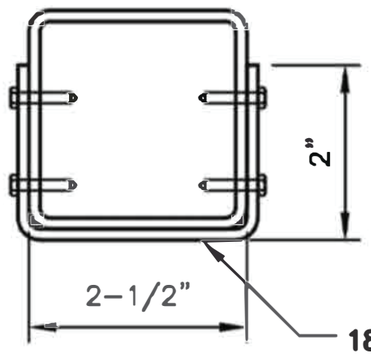
CHECKED BY: MHR

Karl Simms



1 / S6A BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. < 14'-0"

SCALE: 3/4" = 1'-0"



BRACE SECTION

18ga. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH #12-14x3/4" S.D.F.'S AT EACH END AS SHOWN IN ELEVATION.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL SHARES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM HIS FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGNS WITH THEY CONTACT OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE. WITH RESPECT TO ANY ERRORS, OMISSIONS, RETROSPECTIONS, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS, DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE PER CONSTRUCTION MEANS, METHODS, SEQUENCES OR PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND PROVISIONS OF THE CONTRACT DOCUMENTS. SHALL RELIEVE THE CONTRACTOR OF THEIR OWN LIABILITY DUE TO NEGLIGENCE, RECKLESS TEACH, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES:
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE:
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING.

ISSUE	DATE	DESCRIPTION
XXXX	XX/XX	
XXXX	XX/XX	
XXXX	XX/XX	

SHEET NAME:
COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

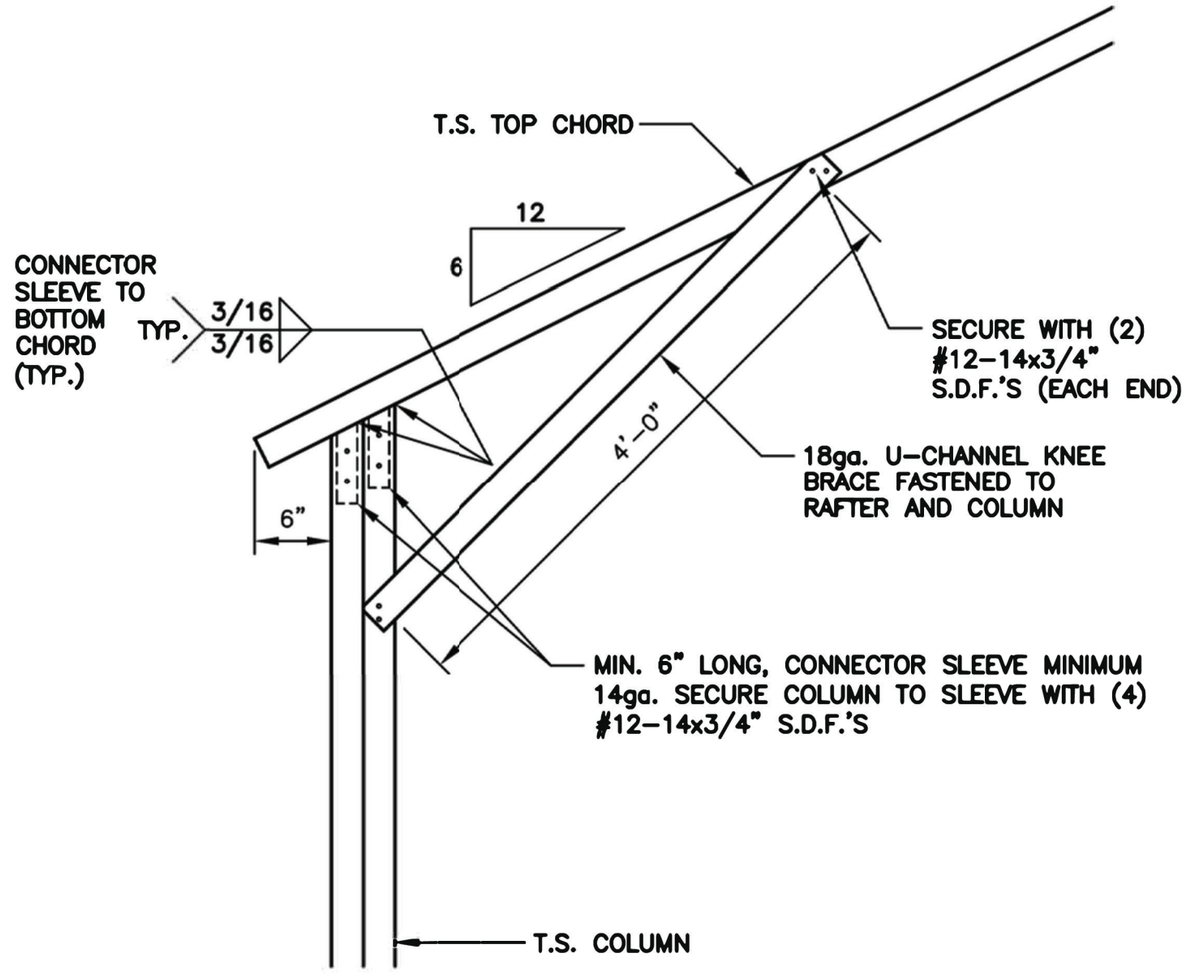
SHEET NUMBER: S6B

PROJECT NUMBER: MISC

DRAWN BY: BKS

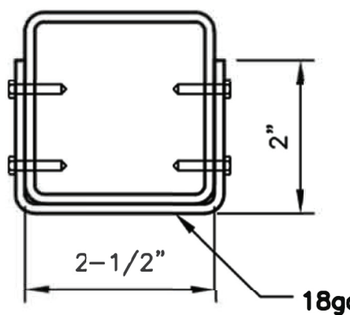
CHECKED BY: MHR

Karl Simms



1 / S6C BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. 14'-1" < TO 16'-0"

SCALE: 3/4" = 1'-0"



BRACE SECTION

18ga. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH #12-14x3/4" S.D.F.'S AT EACH END AS SHOWN IN ELEVATION.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL WARNES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND OR/ FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE AND PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION ON COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION:
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING.

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)

ISSUE DATE: 02/28/2026

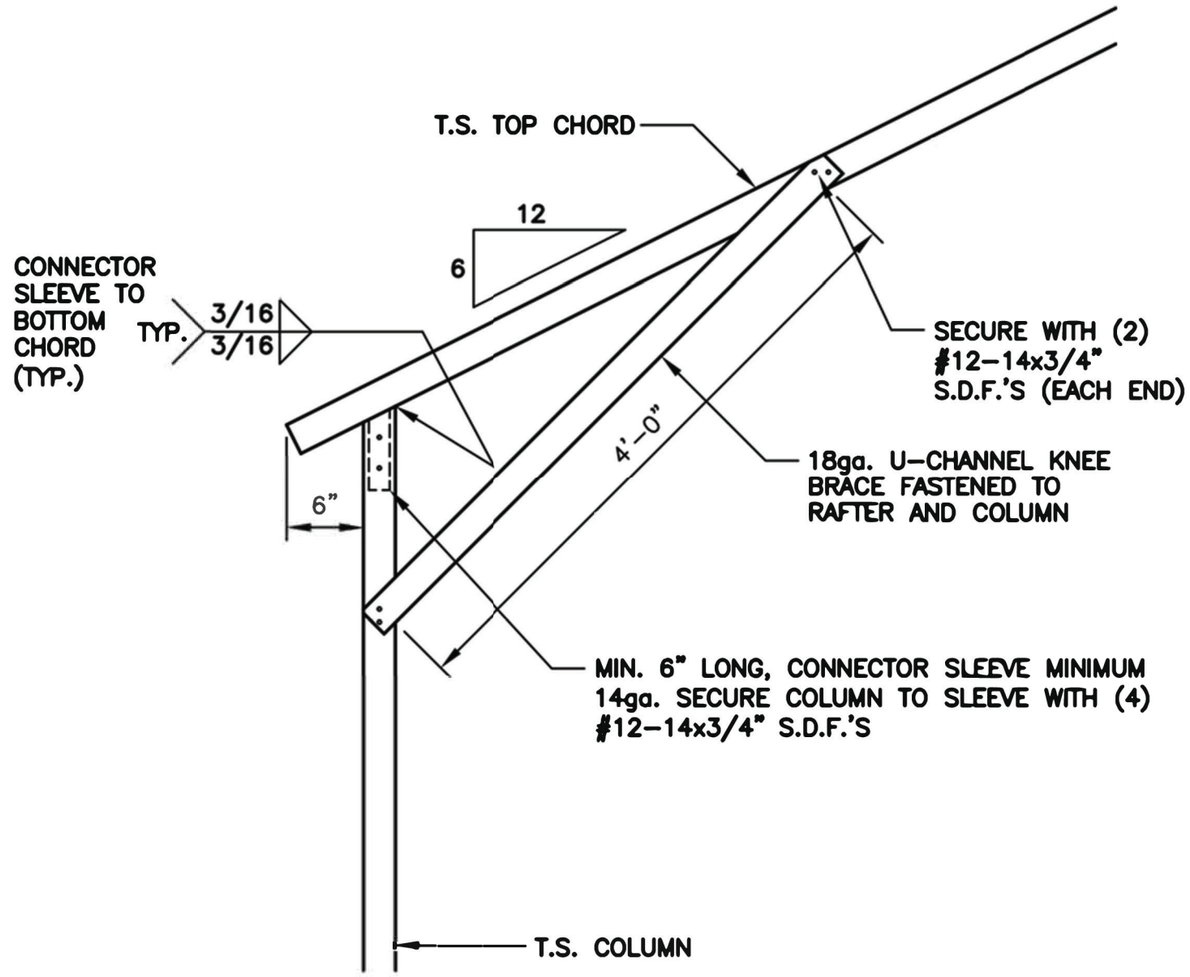
CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S6C

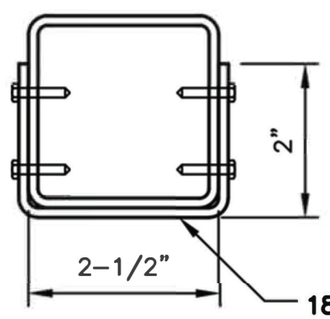
PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHR

Karl Simms



1 / S6C BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. < 14'-0"

SCALE: 3/4" = 1'-0"



BRACE SECTION

18ga. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH #12-14x3/4" S.D.F.'S AT EACH END AS SHOWN IN ELEVATION.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL WARRANTS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND IN CONJUNCTION THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE AND PROVISIONS OF THE CONTRACT DOCUMENTS. SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION:
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE, AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DO Tec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DO Tec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S6C

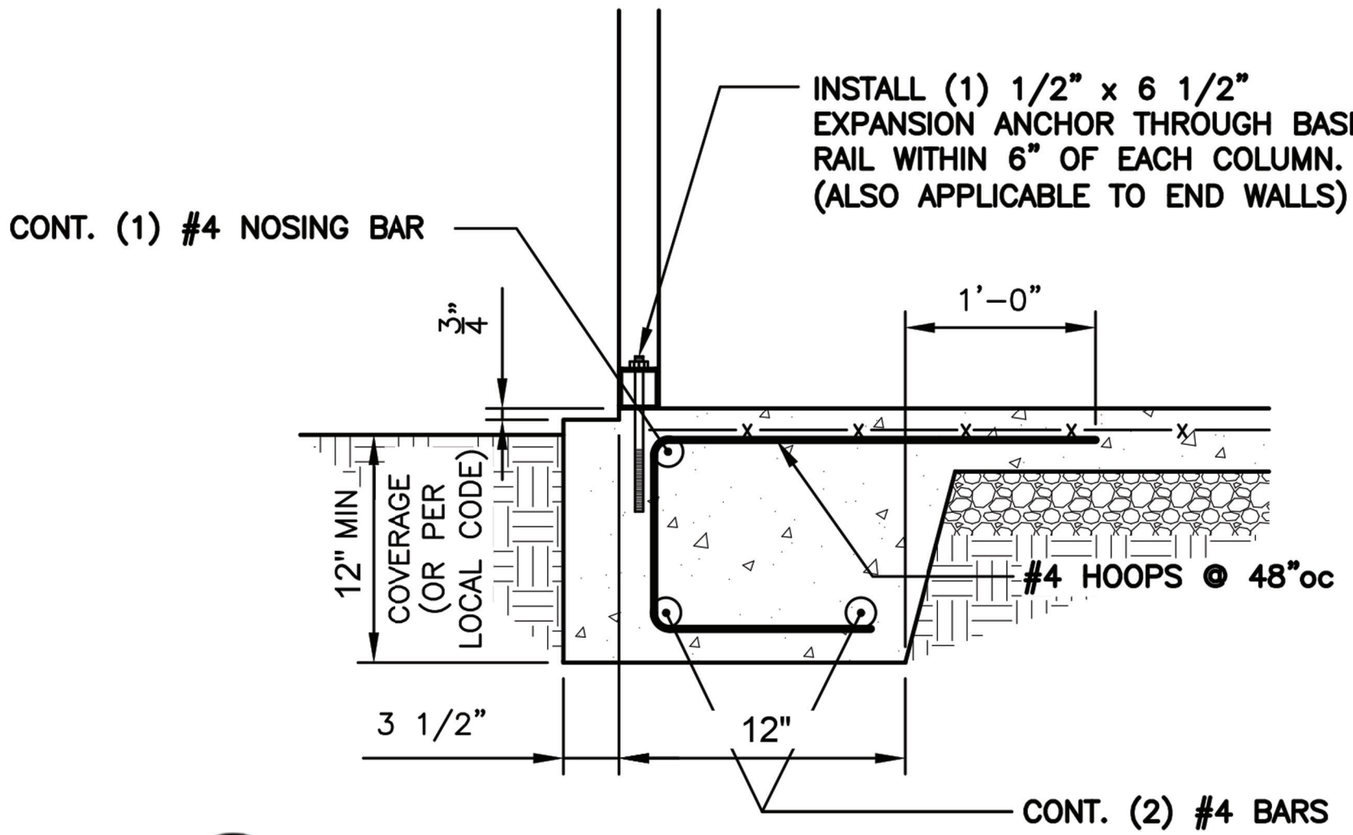
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

Karl Simms

CONCRETE BASE RAIL ANCHORAGE



1 / S7 BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL WARRESANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE AND PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION:
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE, AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DO Tec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DO Tec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
BASE RAIL ANCHORAGE

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER:
S7

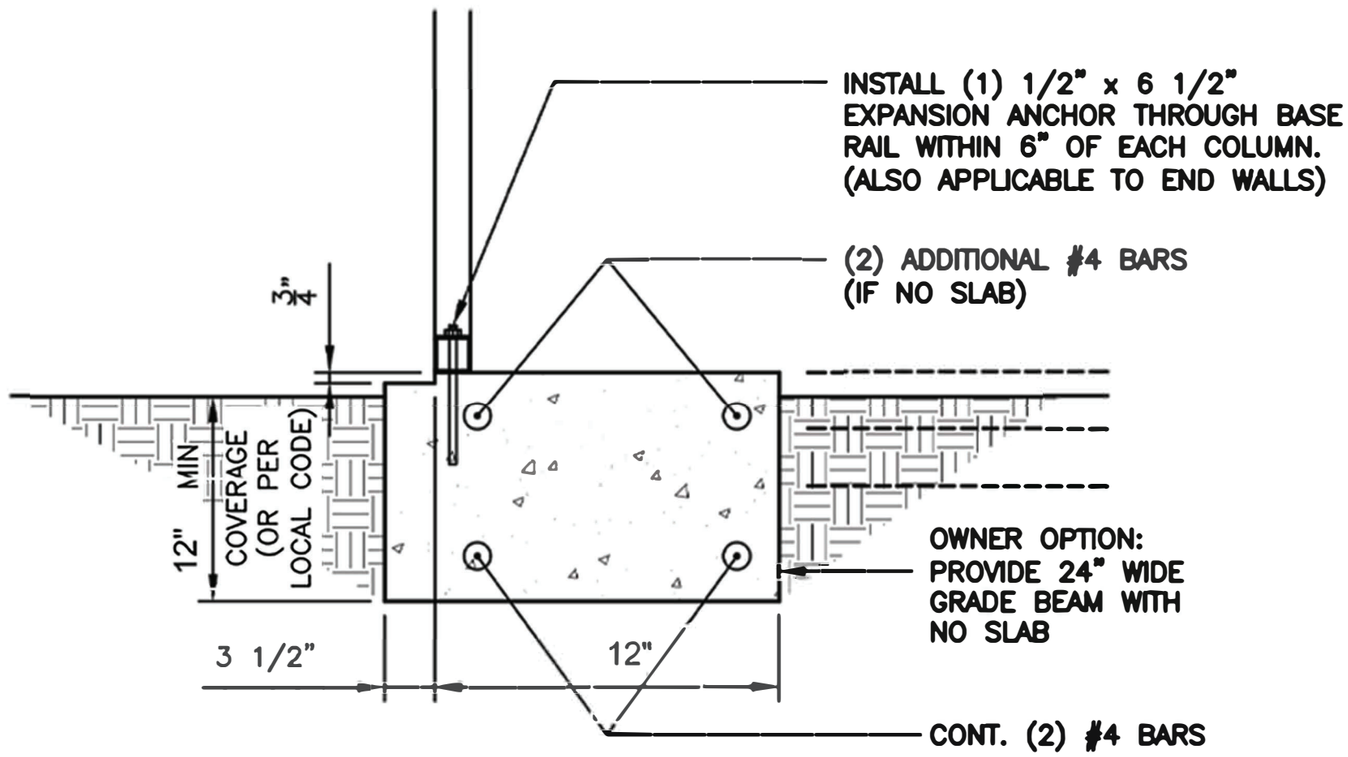
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

Karl Simms

CONCRETE BASE RAIL ANCHORAGE (NO SLAB)



1 S7A BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL OWNS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATION SAND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE AND PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION ON COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION:
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED WHICH MAY OCCUR OF USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: COVER PAGE

ISSUE DATE: 02/28/2026

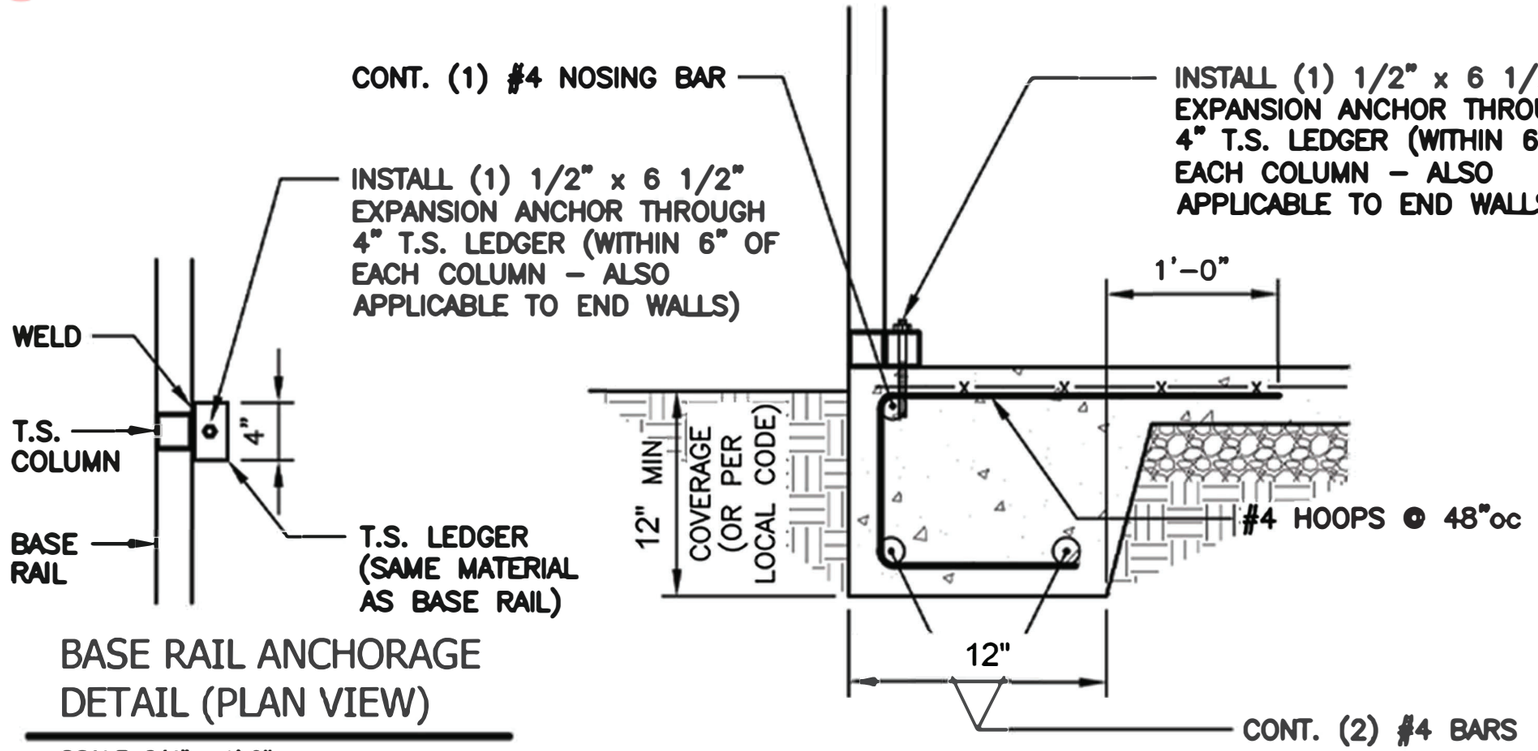
CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S7A

PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHR

Karl Simms

CONCRETE BASE RAIL ANCHORAGE



BASE RAIL ANCHORAGE DETAIL (PLAN VIEW)

SCALE: 3/4" = 1'-0"

1 / S7B

BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTS AS THE AUTHOR OF RECORD FOR THESE CONSTRUCTION DOCUMENTS AND IS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION ON COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION:
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: COVER PAGE

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S7B

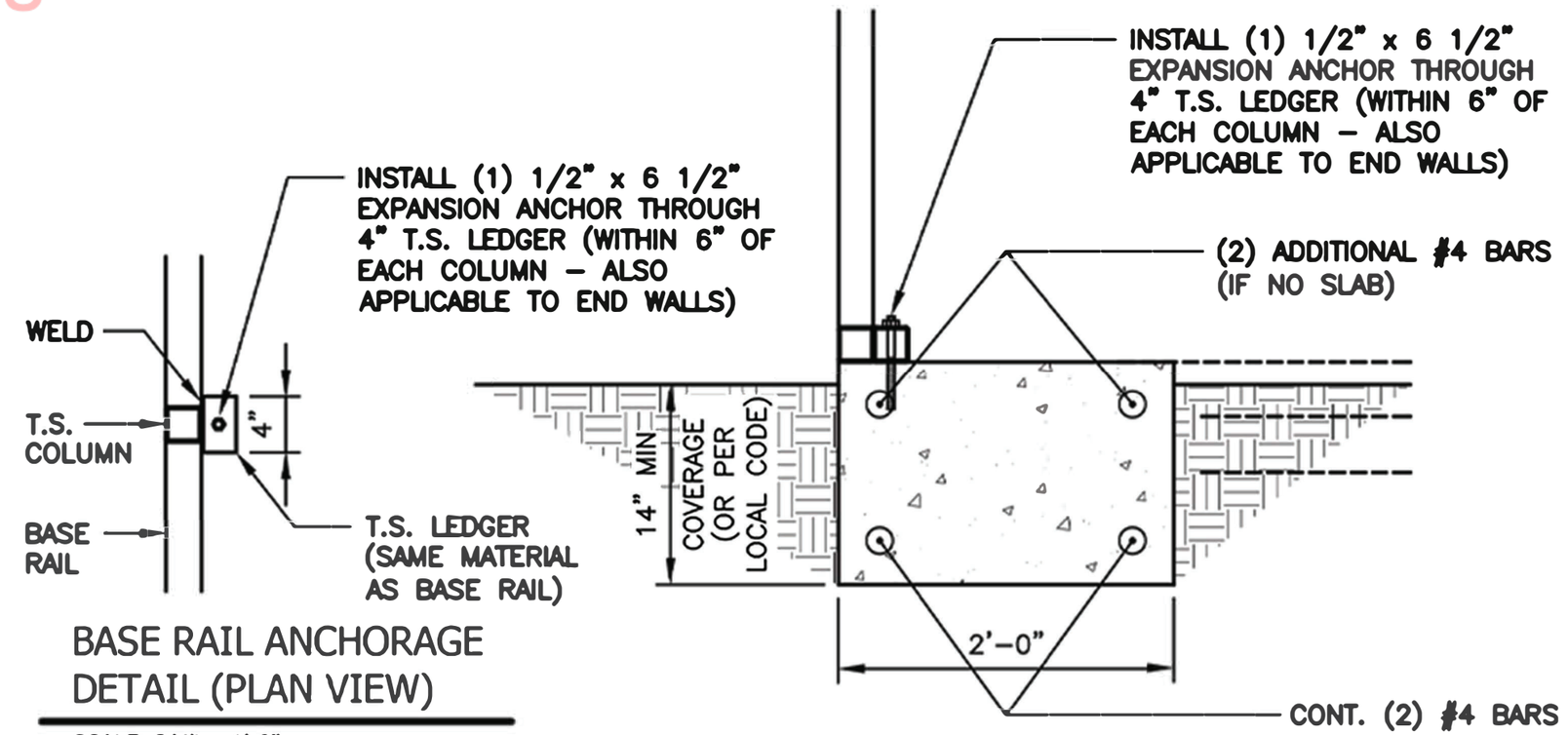
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

Karl Simms

CONCRETE BASE RAIL ANCHORAGE (NO SLAB)



BASE RAIL ANCHORAGE DETAIL (PLAN VIEW)

SCALE: 3/4" = 1'-0"

1 / S7C BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL IN RESPONSIBLE FOR ONLY THE SPECIFIC TASK OR PORTION OF THE PROJECT THAT IS EXPRESSLY DESCRIBED IN THE DESIGN PROFESSIONAL'S CONTRACT WITH THE OWNER. THE DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR ANY OTHER PORTION OF THE PROJECT, INCLUDING BUT NOT LIMITED TO, THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, SAFETY PRECAUTIONS OR PROGRAMS, OR THE FAILURE OF ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR OTHER PERSON OR ENTITY PERFORMING WORK ON THE PROJECT.

COPYRIGHT
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE AND PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION ON COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: COVER PAGE

ISSUE DATE: 02/28/2026

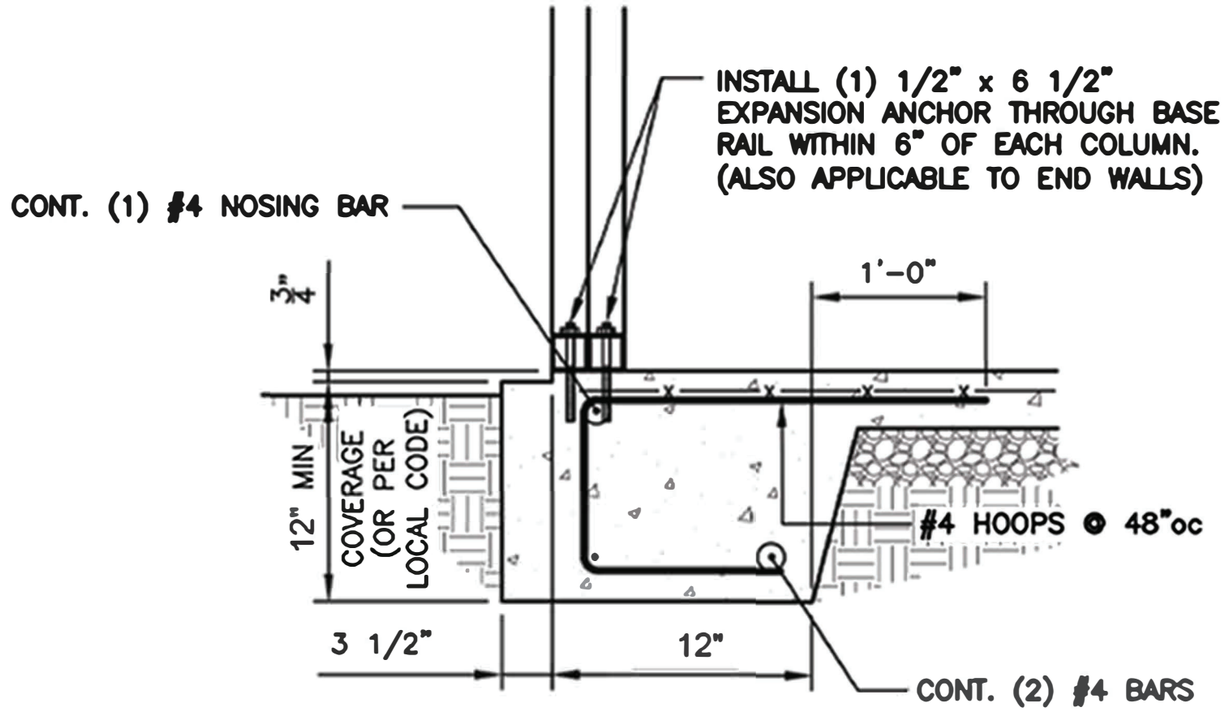
CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S7C

PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHR

Karl Simms

CONCRETE BASE RAIL ANCHORAGE



1 / S7D BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL IN RESPONSIBLE FOR THE CONCEPTION AND DESIGN OF THE PROJECT, AS EXPRESSED IN THE CONSTRUCTION DOCUMENTS. THE DESIGN PROFESSIONAL UNDERSTANDS AND AGREES THAT THE CONSTRUCTION DOCUMENTS PREPARED BY THE DESIGN PROFESSIONAL WILL BE USED BY THE CONTRACTOR AND SUBCONTRACTORS IN PERFORMING THEIR WORK. THE DESIGN PROFESSIONAL AGREES TO PROMPTLY REVIEW AND APPROVE SHOP DRAWINGS, SAMPLES, AND OTHER SUBMITTALS PREPARED BY THE CONTRACTOR AND SUBCONTRACTORS IN ORDER TO AVOID UNREASONABLE DELAY IN THE CONSTRUCTION OF THE WORK. THE DESIGN PROFESSIONAL AGREES TO PROMPTLY REVIEW AND APPROVE SHOP DRAWINGS, SAMPLES, AND OTHER SUBMITTALS PREPARED BY THE CONTRACTOR AND SUBCONTRACTORS IN ORDER TO AVOID UNREASONABLE DELAY IN THE CONSTRUCTION OF THE WORK.

ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE AND PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION:
THE ENGINEER PREPARING THESE PLANS SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED WHICH IS TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: COVER PAGE

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S7D

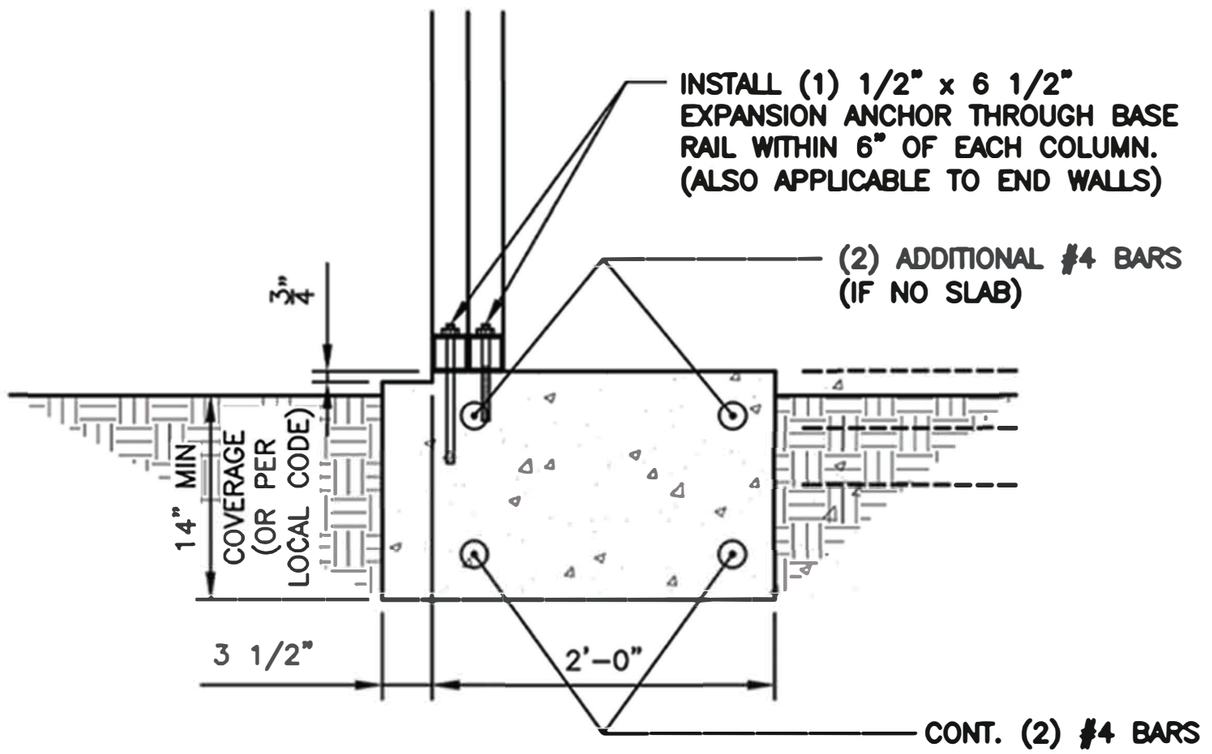
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

Karl Simms

CONCRETE BASE RAIL ANCHORAGE (NO SLAB)



1 S7E BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL SHALL HAVE ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
COPYRIGHT
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, ESTIMATES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY
THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION ON COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION:
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: COVER PAGE

ISSUE DATE: 02/28/2026

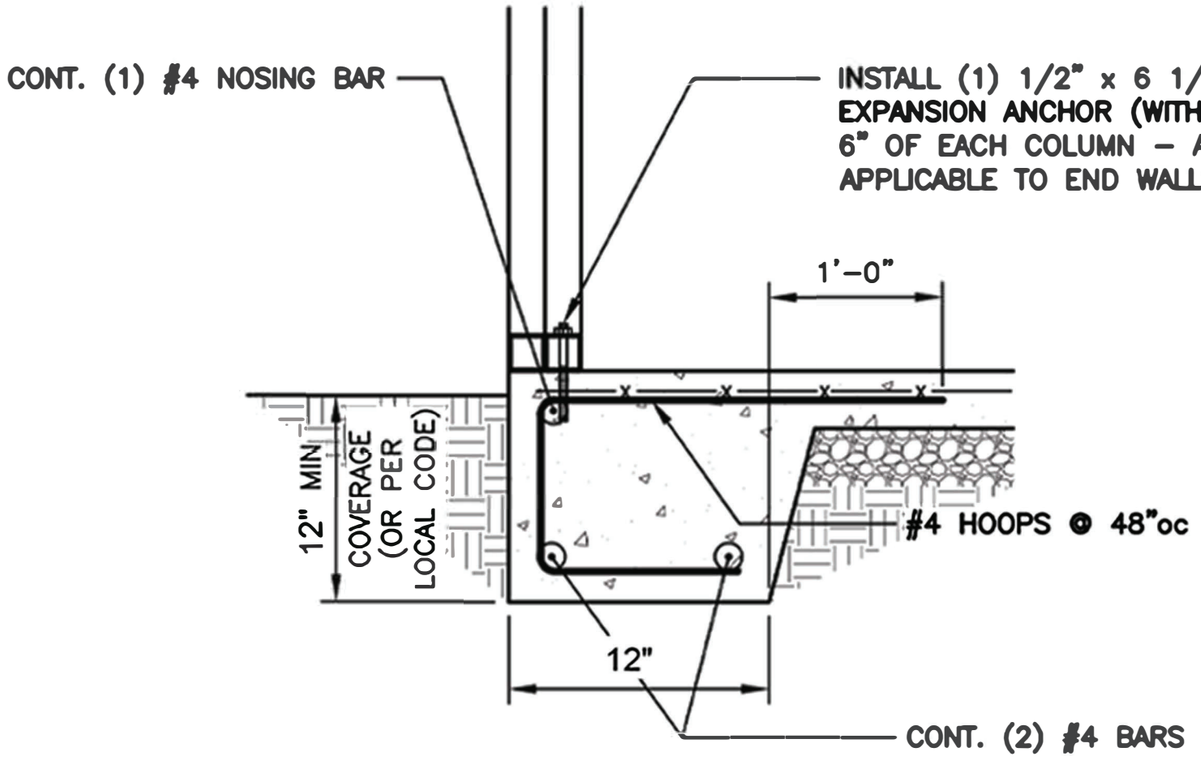
CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S7E

PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHR

Karl Simms

CONCRETE BASE RAIL ANCHORAGE



1 / S7F BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACCEPTS RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND CONSTRUCTION OBSERVATIONS WITHIN THEIR COMPETENCY, OR FOR PROBLEMS ENCOUNTERED THAT RESULT FROM OTHERS FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. IF THE DESIGN PROFESSIONAL IS TO BE NOTIFIED PRIOR TO CONSTRUCTION. IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE AND PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION ON COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION:
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED ON ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: COVER PAGE

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S7F

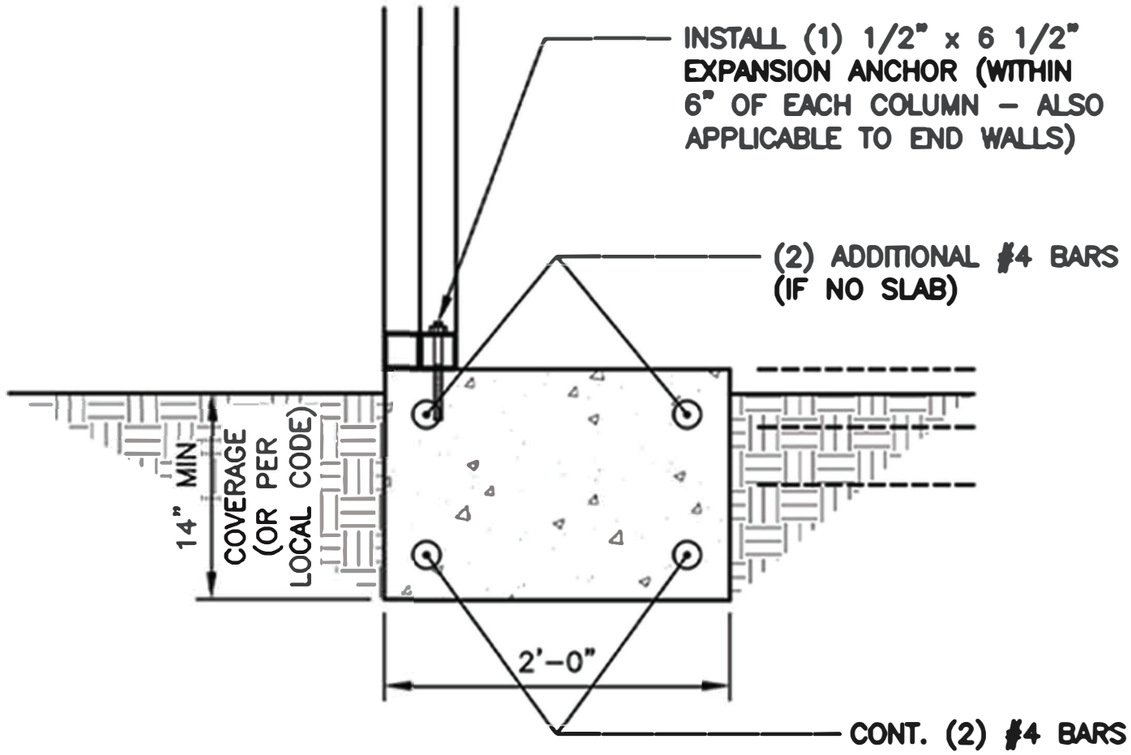
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

Karl Simms

CONCRETE BASE RAIL ANCHORAGE (NO SLAB)



1 / S7G BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND OR FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS UNLESS PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGE.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, ESTIMATES AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY: THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS SHALL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING.

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: BASE RAIL ANCHORAGE

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S7G

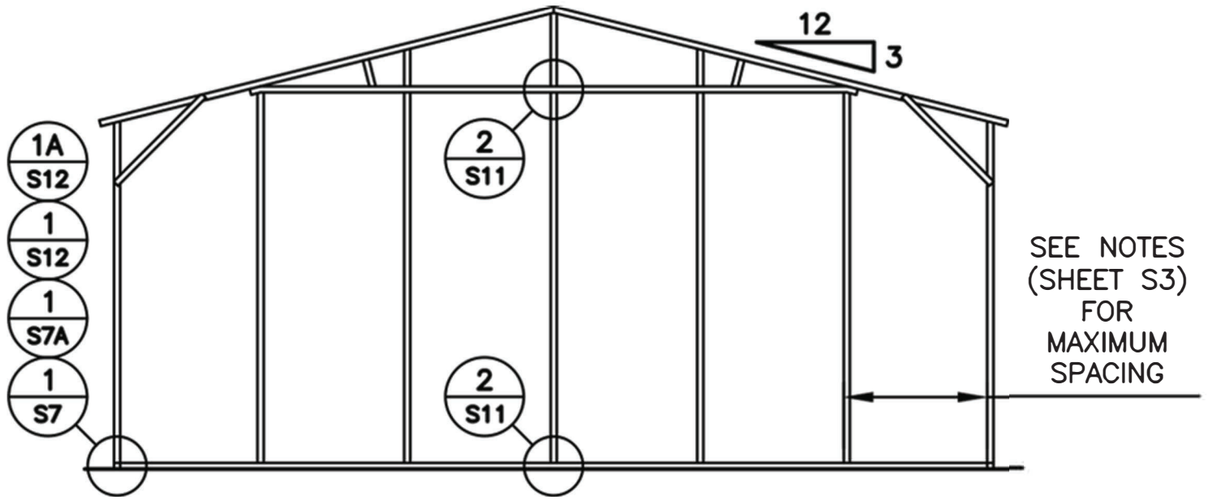
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

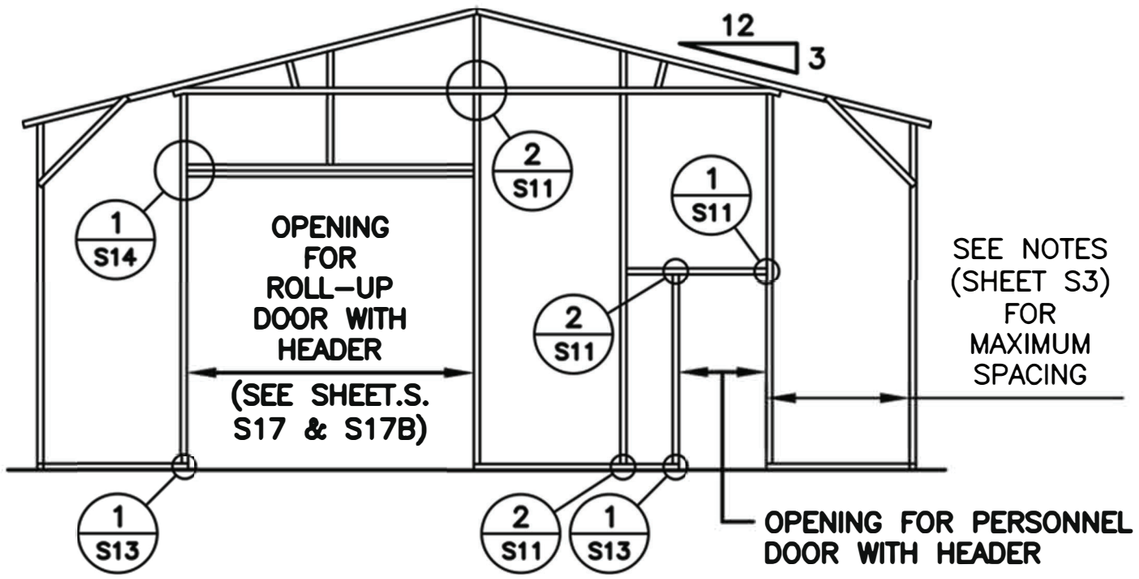
Karl Simms

BOX EVE RAFTER END WALL OPENINGS



TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

NOTE:
ROLL UP DOORS SHALL HAVE ONE JAMB EACH SIDE + ONE FRAME COLUMN BETWEEN OR SITE SPECIFIC SHALL BE REQ'D.



TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE AUTHOR OF THESE PLANS, SPECIFICATIONS AND DESIGNS HEREBY STATES THAT TO THE BEST OF THEIR KNOWLEDGE, INFORMATION AND BELIEF, THE DESIGNS CONTAINED IN THESE PLANS, SPECIFICATIONS AND DESIGNS COMPLY WITH THE APPLICABLE BUILDING CODES, ZONING REGULATIONS AND RESTRICTIONS IN EFFECT AT THE TIME AND PLACE OF THE ORIGINAL PREPARATION OF THESE PLANS, SPECIFICATIONS AND DESIGNS. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE AUTHOR OF THESE PLANS, SPECIFICATIONS AND DESIGNS DOES NOT REPRESENT THAT THEY HAVE PERFORMED ANY INVESTIGATION REGARDING SITE CONDITIONS OR ANY OTHER FACTORS THAT WOULD AFFECT THE CONSTRUCTION OR PERFORMANCE OF THE PROJECT BEYOND THAT REQUIRED BY THE BUILDING CODE. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE AUTHOR OF THESE PLANS, SPECIFICATIONS AND DESIGNS ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION SITE CONDITIONS OR CONDITIONS DURING CONSTRUCTION, EXCEPT THOSE CONDITIONS CAUSED BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE AUTHOR OF THESE PLANS, SPECIFICATIONS AND DESIGNS'S SOLE NEGLIGENCE. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE AUTHOR OF THESE PLANS, SPECIFICATIONS AND DESIGNS SHALL NOT BE RESPONSIBLE FOR ACCIDENTS OCCURRING DURING CONSTRUCTION. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE AUTHOR OF THESE PLANS, SPECIFICATIONS AND DESIGNS SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE AUTHOR OF THESE PLANS, SPECIFICATIONS AND DESIGNS DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S NON-COMPLIANCE WITH LAWS AND REGULATIONS APPLICABLE TO THE CONTRACTOR'S OPERATIONS. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE AUTHOR OF THESE PLANS, SPECIFICATIONS AND DESIGNS SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE AUTHOR OF THESE PLANS, SPECIFICATIONS AND DESIGNS SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, ANY OF THE CONTRACTOR'S OR SUBCONTRACTOR'S AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.

USE OR REUSE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY:
THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NO PROVISIONS OF THE CONTRACT CODUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE A INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
TYPICAL END WALL OPENINGS FRAMING SECTIONS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S9

PROJECT NUMBER: MISC

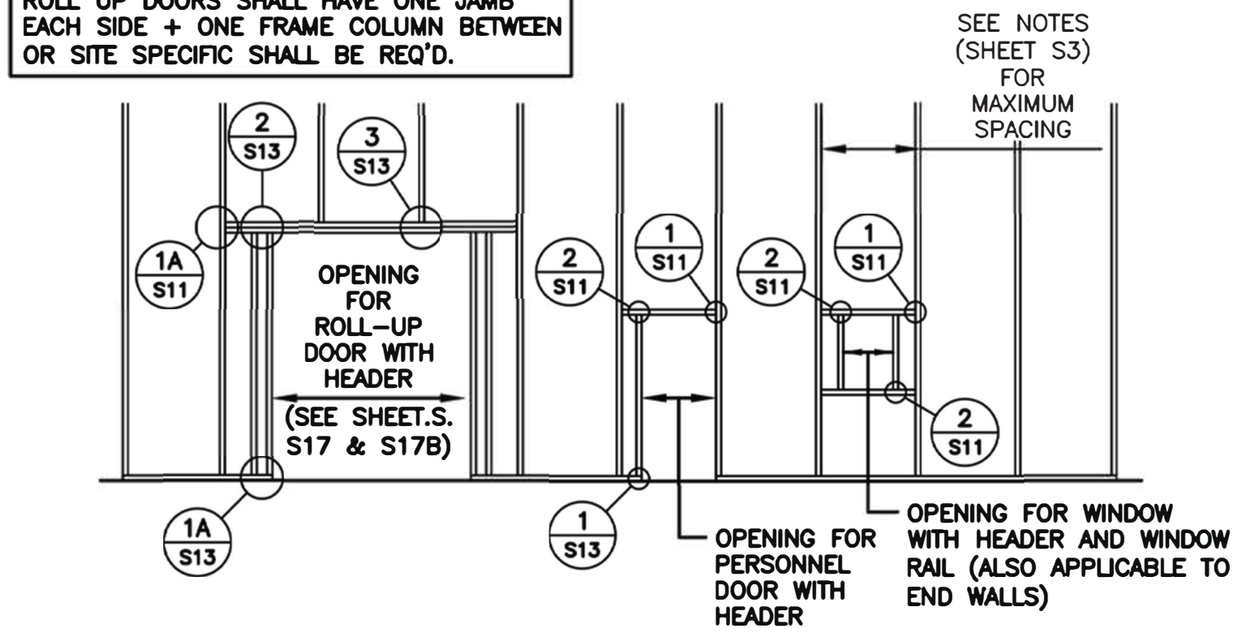
DRAWN BY: BKS

CHECKED BY MHR

Karl Simms

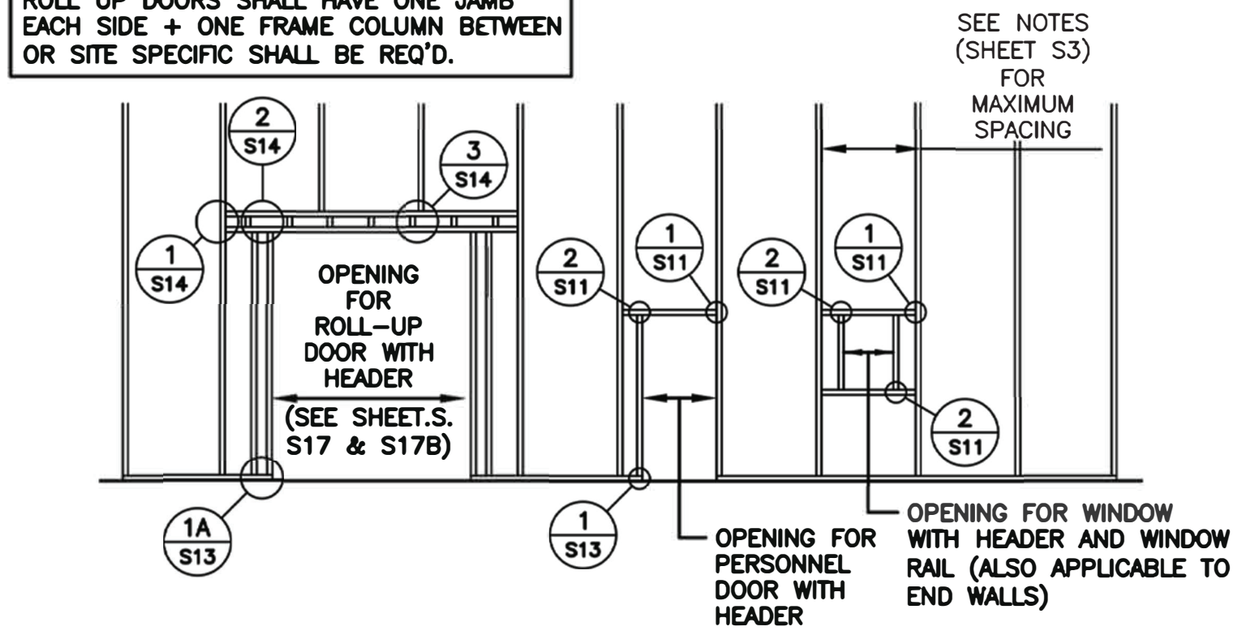
BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

NOTE:
ROLL UP DOORS SHALL HAVE ONE JAMB EACH SIDE + ONE FRAME COLUMN BETWEEN OR SITE SPECIFIC SHALL BE REQ'D.



TYPICAL END WALL OPENING FRAMING SECTION

NOTE:
ROLL UP DOORS SHALL HAVE ONE JAMB EACH SIDE + ONE FRAME COLUMN BETWEEN OR SITE SPECIFIC SHALL BE REQ'D.



TYPICAL SIDE WALL OPENING FRAMING SECTION

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL OWNERS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM F AILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS F AILURE TO OBTAIN AND OBSERVE THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION. IN THE EVENT OF CODE REVISION OR CHANGE.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NO PROVISIONS OF THE CONTRACT CONDUCTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
TYPICAL SIDE WALL OPENINGS FRAMING SECTIONS

ISSUE DATE: 02/28/2026

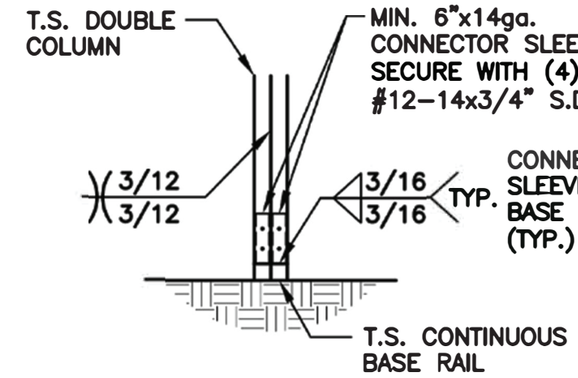
CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER:
S9A

PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY MHR

Karl Simms

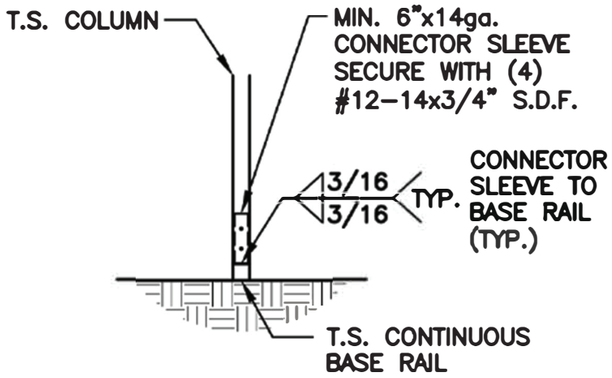
CONNECTION DETAILS



POST / BASE RAIL CONNECTION DETAIL

1 / S10

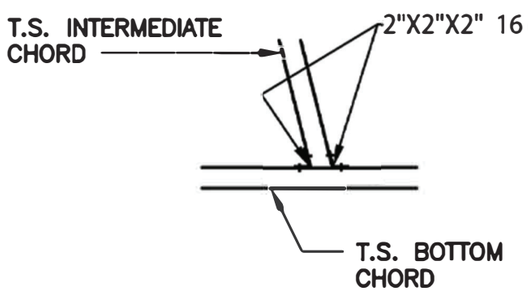
SCALE: 1/2" = 1'-0"



POST / BASE RAIL CONNECTION DETAIL

1A / S10

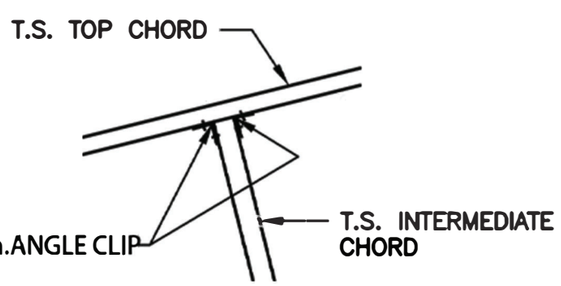
SCALE: 1/2" = 1'-0"



INTERMEDIATE CHORD TO BOTTOM CHORD CONNECTION DETAIL

2 / S10

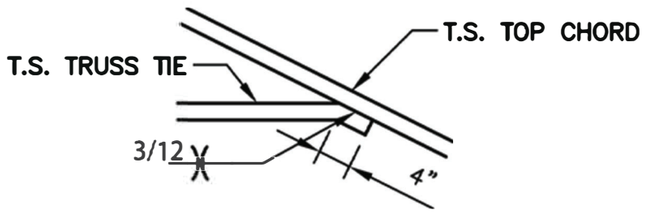
SCALE: 1/2" = 1'-0"



INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL

3 / S10

SCALE: 1/2" = 1'-0"



TRUSS TIE CONNECTION DETAIL

4 / S10

SCALE: 1/2" = 1'-0"

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL SHALL HAVE ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM CHANGES FAILURE TO OBTAIN AND OBEY FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE AS NEED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & RSES
CAUTION:
THE ENGINEER PREPARING THESE PLANS IN NO LYOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARED OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED, ORALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: CONNECTION DETAILS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S10

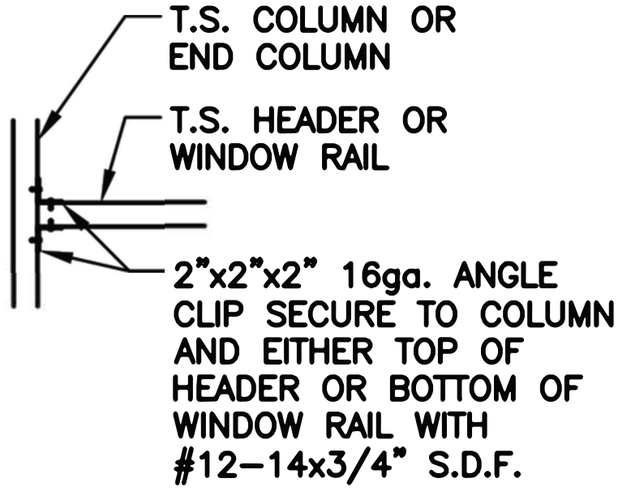
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

Karl Simms

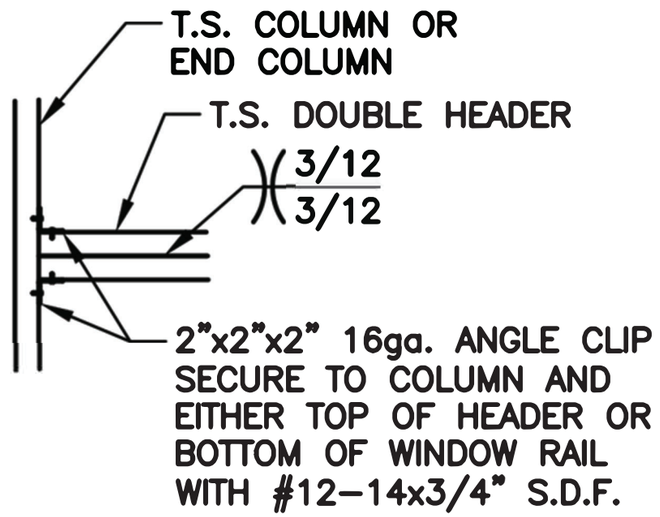
CONNECTION DETAILS



COLUMN OR WINDOW RAIL / WALL GIRT TO POST CONNECTION DETAIL

1 / S11

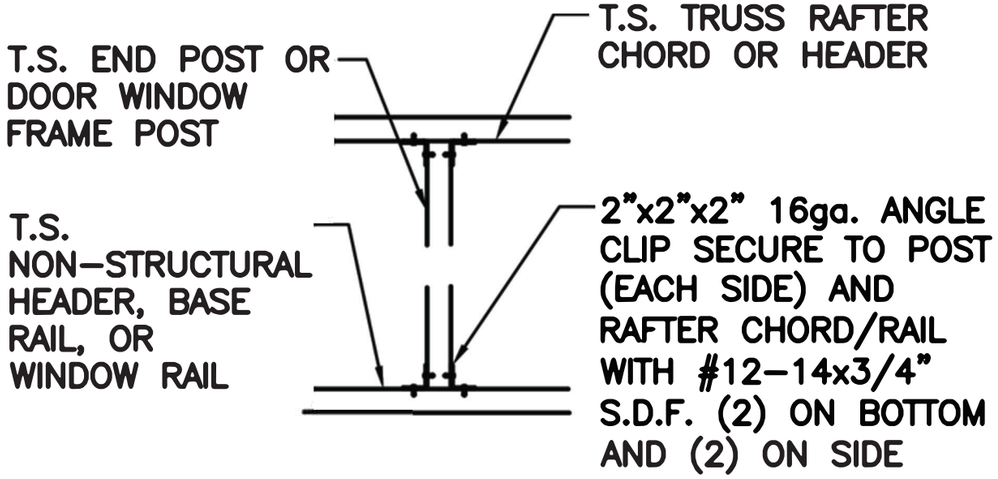
SCALE: 1/2" = 1'-0"



COLUMN / DOUBLE HEADER CONNECTION DETAIL

1A / S11

SCALE: 1/2" = 1'-0"



DOOR OR WINDOW HEADER RAIL TO POST CONNECTION DETAIL

2 / S11

SCALE: 1/2" = 1'-0"

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL WARNS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM (1) NOT FAILURE TO OBTAIN AND OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WHERE REQUIRED, OR (2) DEVIATIONS, CHANGES, ERRORS OR AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DOS ON PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION. IN THE EVENT OF CODE REVISION OR ********.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: CONNECTION DETAILS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S11

PROJECT NUMBER: MISC

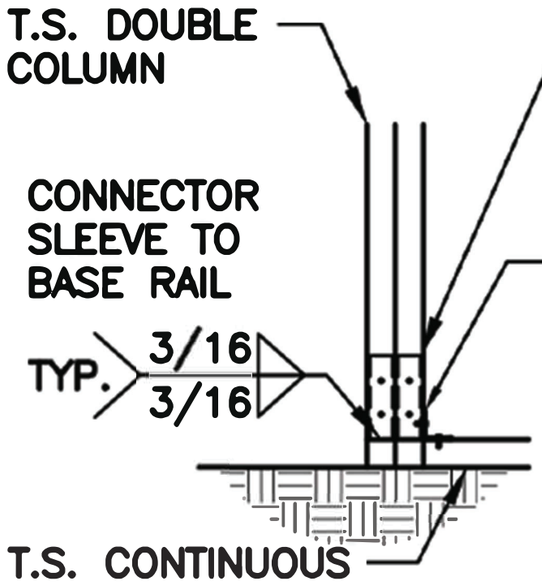
DRAWN BY: BKS

CHECK ED BY: MHR

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

Karl Simms

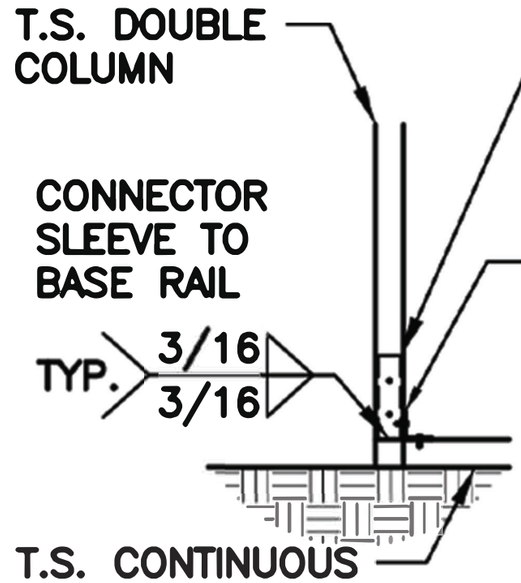
CONNECTION DETAILS



END COLUMN / BASE RAIL CONNECTION DETAIL

1 / S12

SCALE: 1/2" = 1'-0"



END COLUMN / BASE RAIL CONNECTION DETAIL

1A / S12

SCALE: 1/2" = 1'-0"

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL WARNES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGE.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR OF SAFETY PRECAUTIONS& PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & IS OMISSIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: CONNECTION DETAILS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S12

PROJECT NUMBER: MISC

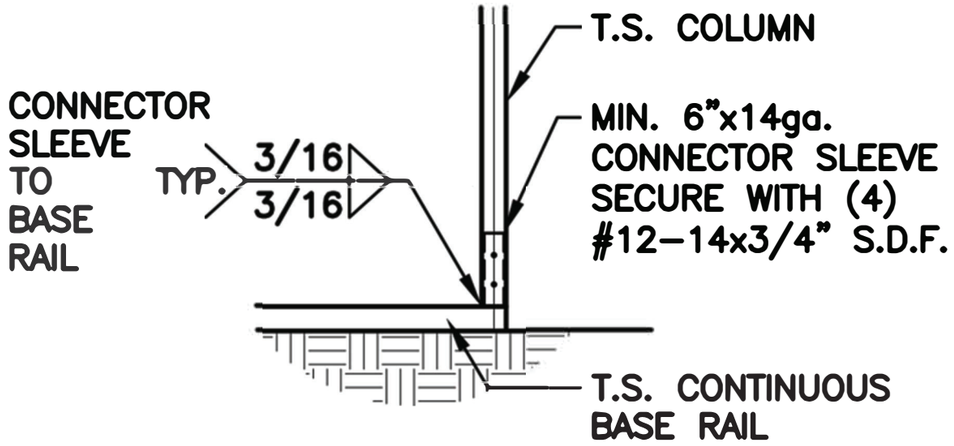
DRAWN BY: BKS

CHECKED BY: MHR

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

Karl Simms

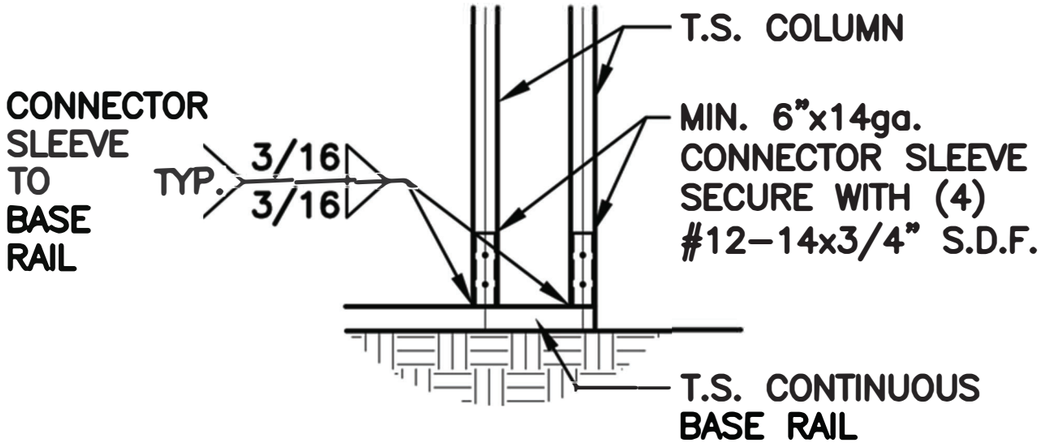
CONNECTION DETAILS



COLUMN / BASE RAIL CONNECTION DETAIL

1 / S13

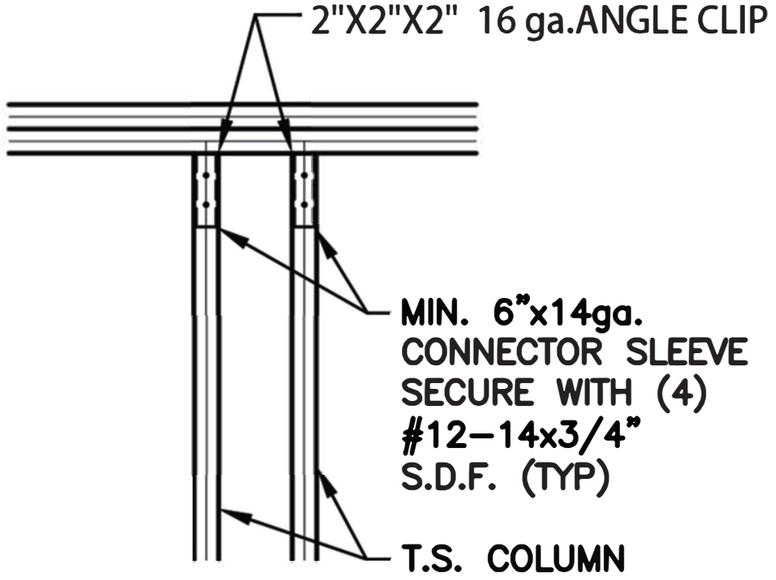
SCALE: 1/2" = 1'-0"



COLUMN / BASE RAIL CONNECTION DETAIL

1A / S13

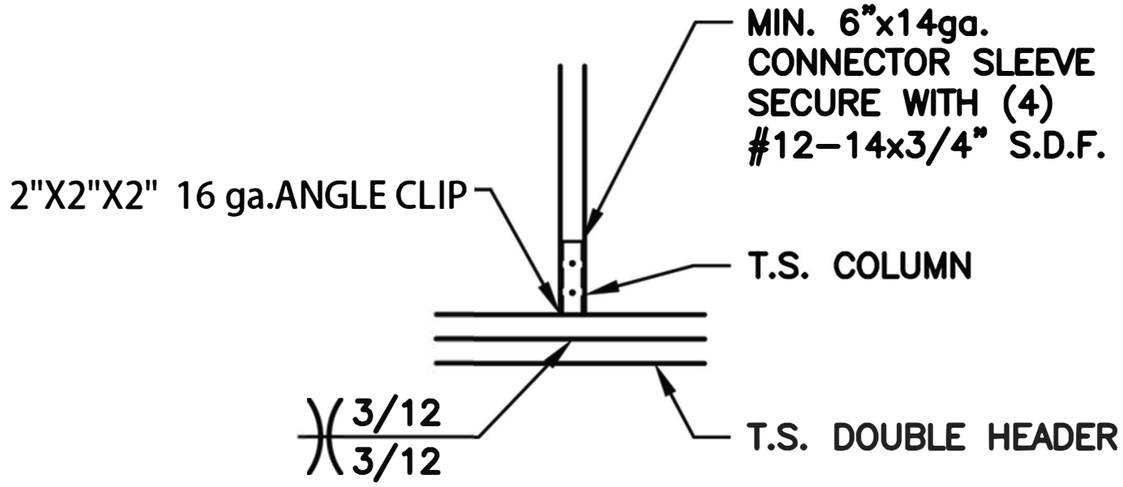
SCALE: 1/2" = 1'-0"



DOUBLE HEADER / COLUMN CONNECTION DETAIL

2 / S13

SCALE: 1/2" = 1'-0"



COLUMN / DOUBLE HEADER CONNECTION DETAIL

3 / S13

SCALE: 1/2" = 1'-0"

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL WARNES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM ATTEMPTS FAILURE TO OBTAIN AND OR/ FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED, BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY: THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR OF SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: CONNECTION DETAILS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S13

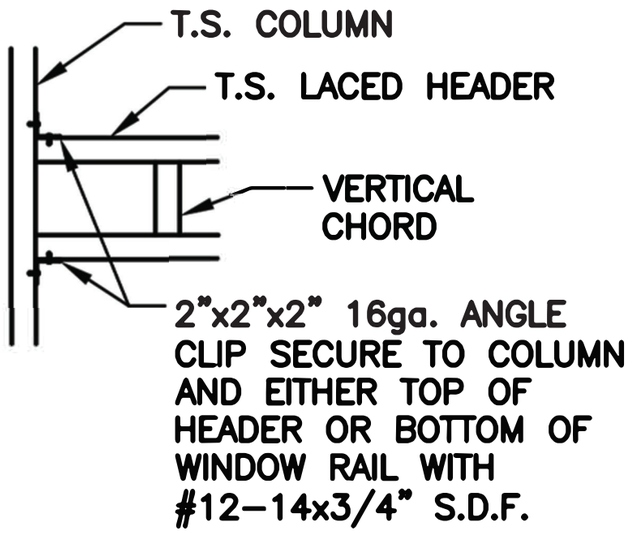
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

Karl Simms

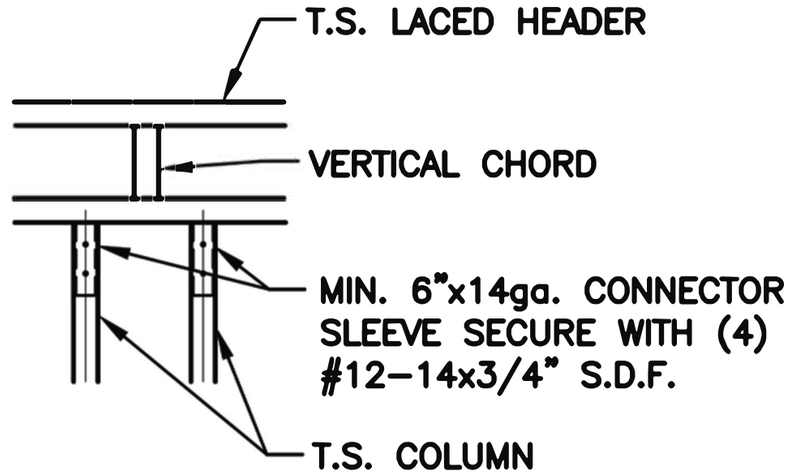
CONNECTION DETAILS



COLUMN / LACED HEADER CONNECTION DETAIL

1 / S14

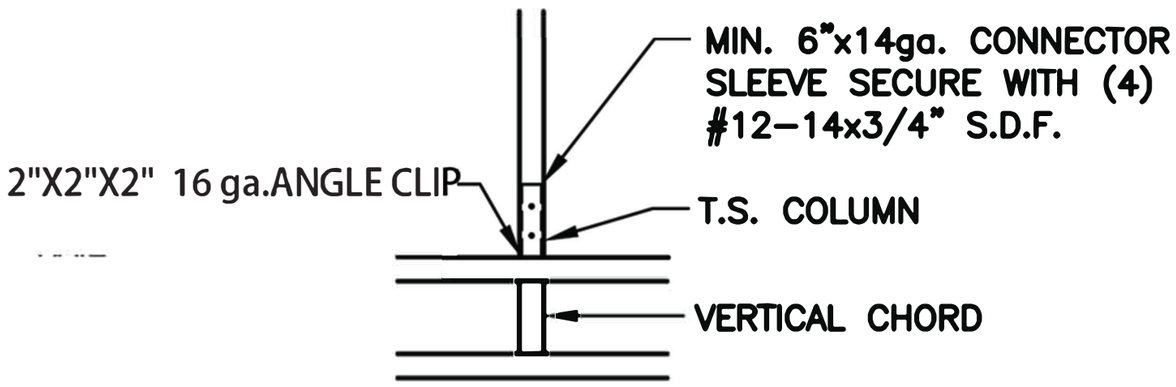
SCALE: 1/2" = 1'-0"



LACED HEADER / COLUMN CONNECTION DETAIL

2 / S14

SCALE: 1/2" = 1'-0"



COLUMN / LACED HEADER CONNECTION DETAIL

3 / S14

SCALE: 1/2" = 1'-0"

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL SHALL HAVE NO ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM STRUCTURES FAILURE TO OBTAIN AND DRY FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION. IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE, EDIT OR ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE PRIOR AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR OF SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NOR PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: CONNECTION DETAILS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S14

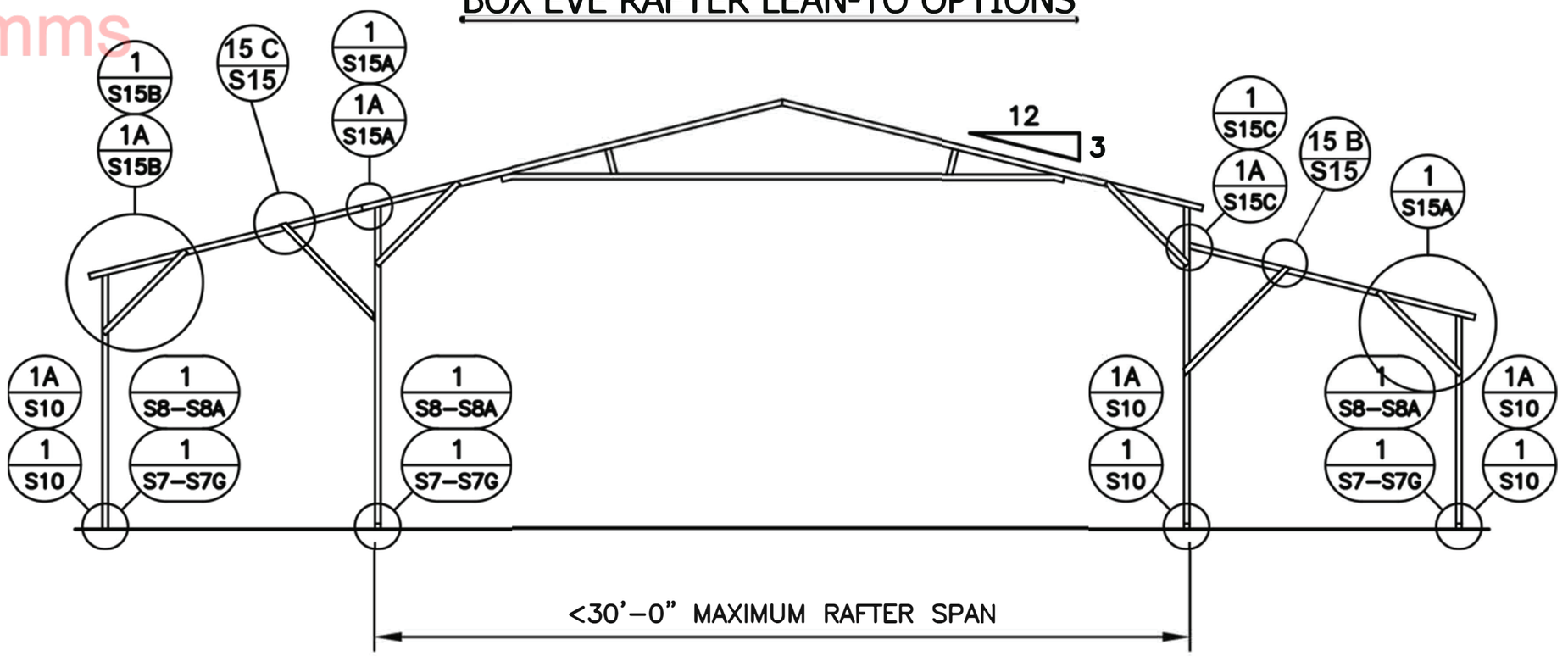
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

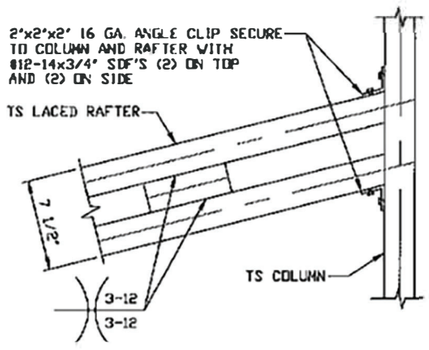
Karl Simms

BOX EVE RAFTER LEAN-TO OPTIONS

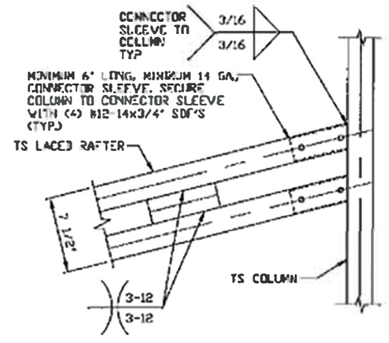


TYPICAL LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN–TO OPTION IS 12'–0"
MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN–TO IS 15'–0"
12'–0" MAX. LEAN–TO HEIGHT WITH SINGLE COLUMN
16'–0" MAX. LEAN–TO HEIGHT WITH DOUBLE COLUMN
20'–0" MAX. LEAN–TO HEIGHT WITH DOUBLE COLUMN



15B **LEAN–TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 16'–0" < L ≤ 20'–0"**
SCALE: NTS



15C **LEAN–TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 16'–0" < L ≤ 20'–0"**
SCALE: NTS

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL OWNS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM CHANGES FAILURE TO OBTAIN AND OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE AS NOTED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEYS FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NOR PROVISIONS OF THE CONTRACT DOCUMENTS. SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARED OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE, AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR IS DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
LEAN-TO OPTIONS DETAILS

ISSUE DATE: 02/28/2026

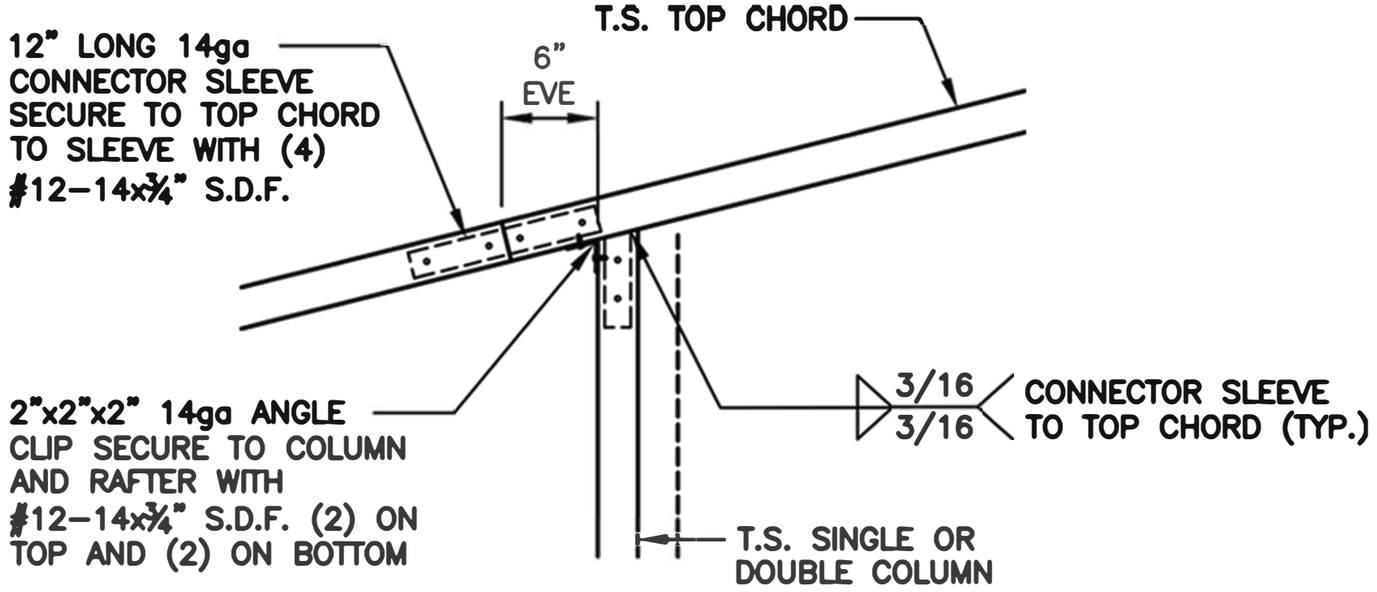
CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S15

PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHR

Karl Simms

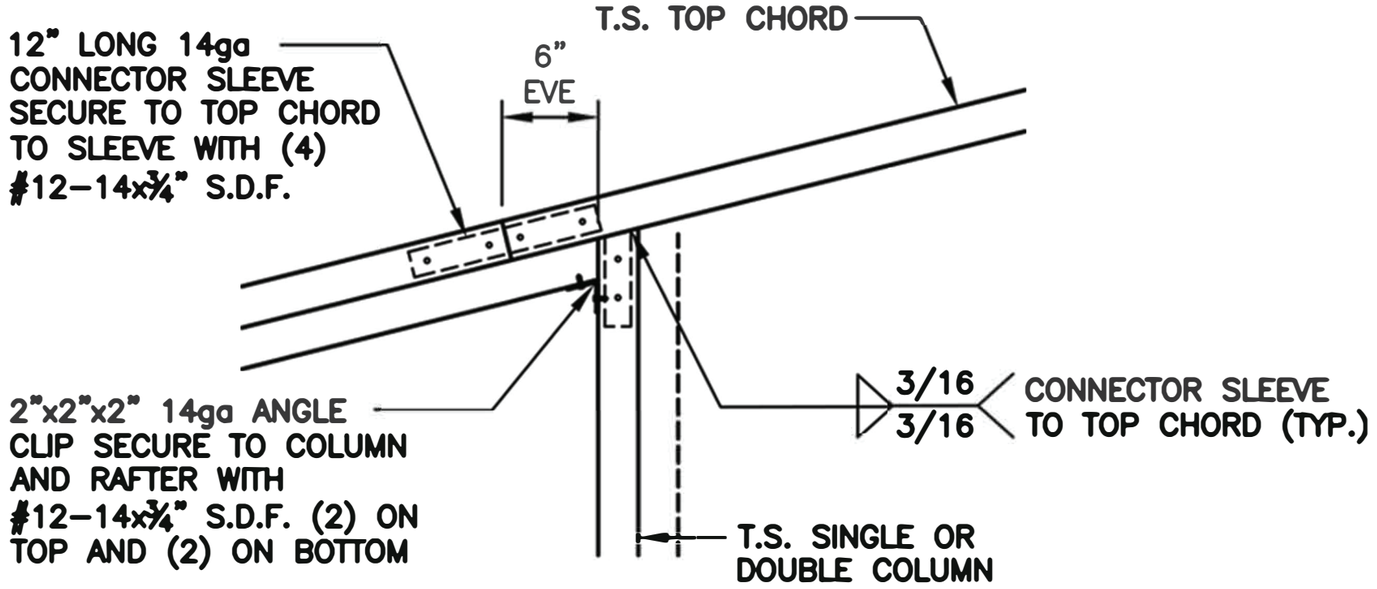
LEAN-TO CONNECTION DETAILS



ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 12'-0"

1 / S15A

SCALE: 3/4" = 1'-0"



ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 15'-0"

1A / S15A

SCALE: 3/4" = 1'-0"

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL OWNS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR INSTRUMENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE AT ISSUED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGE.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY: THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR OF SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!!
THE ENGINEER PREPARING THESE PLANS SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
xxxx	xxxx	
xxxx	xxxx	

SHEET NAME: LEAN-TO CONNECTION DETAILS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S15A

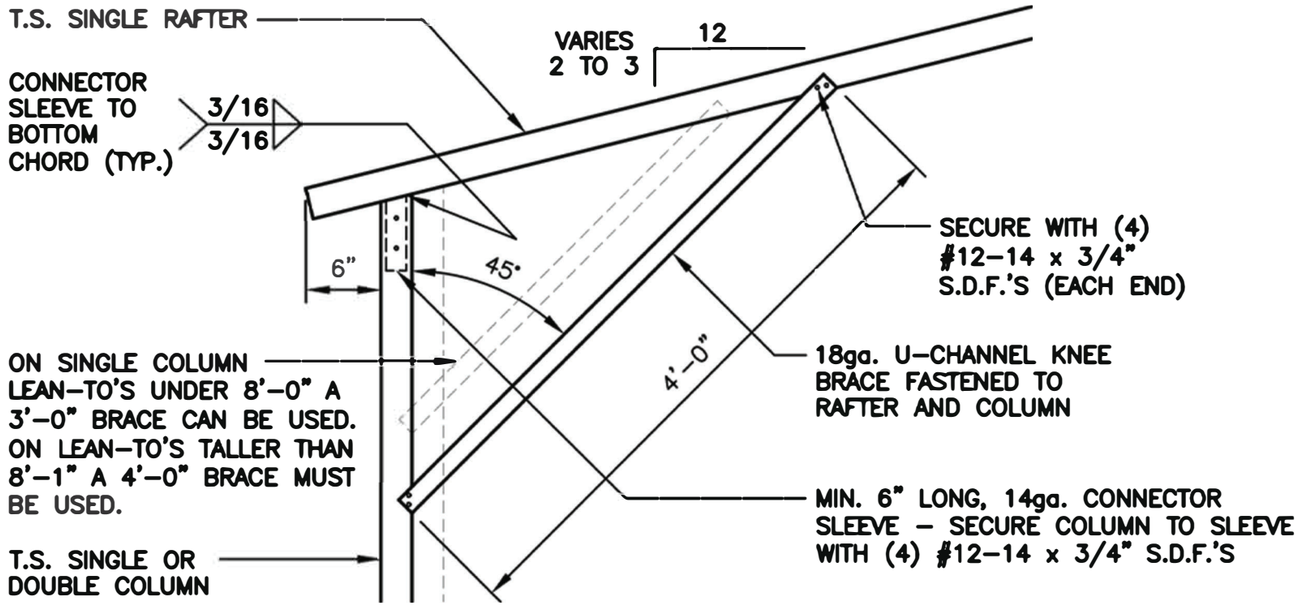
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

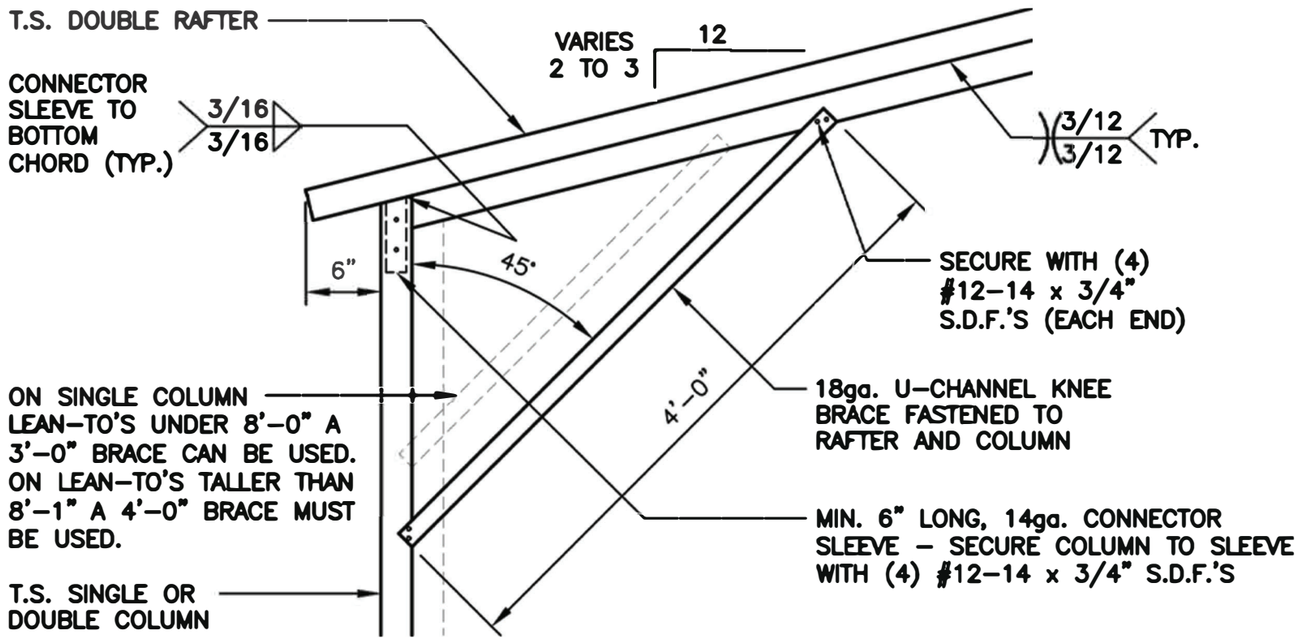
Karl Simms

LEAN-TO CONNECTION DETAILS - SINGLE COLUMN



1 / S15B — LEAN-TO SINGLE RAFTER / SINGLE COLUMN CONNECTION DETAIL

SCALE: 3/4" = 1'-0"



1A / S15B — LEAN-TO DOUBLE RAFTER / SINGLE COLUMN CONNECTION DETAIL

SCALE: 3/4" = 1'-0"

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL SHALL HAVE ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY. OR FOR PROBLEMS WHICH ARISE FROM ATTEMPTS AT FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION ME ANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NOT PROVISIONS OF THE CONTRACT DOCUMENTS. SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & RISES
CAUTION:
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE A INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME: LEAN-TO CONNECTION DETAILS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S15B

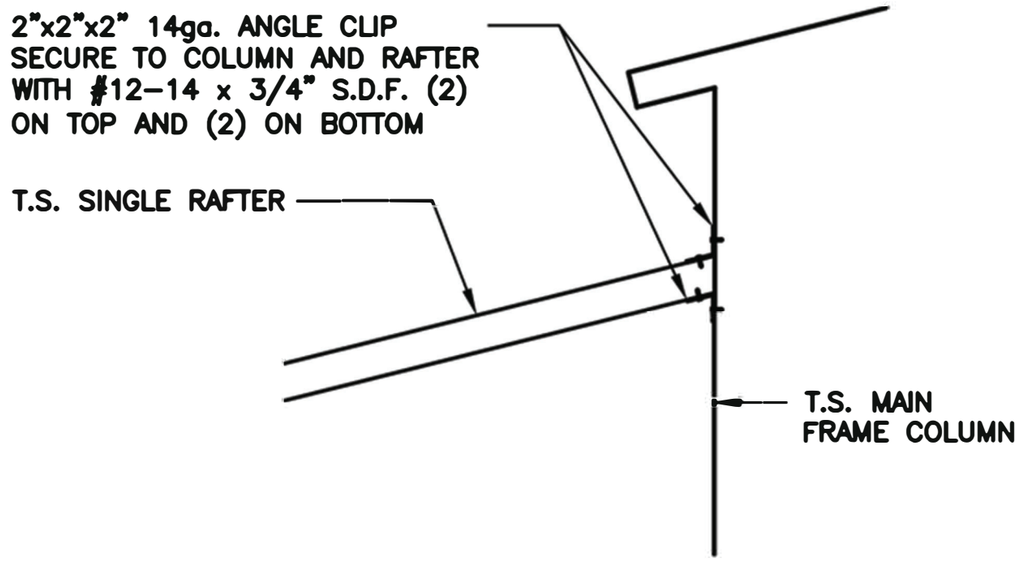
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

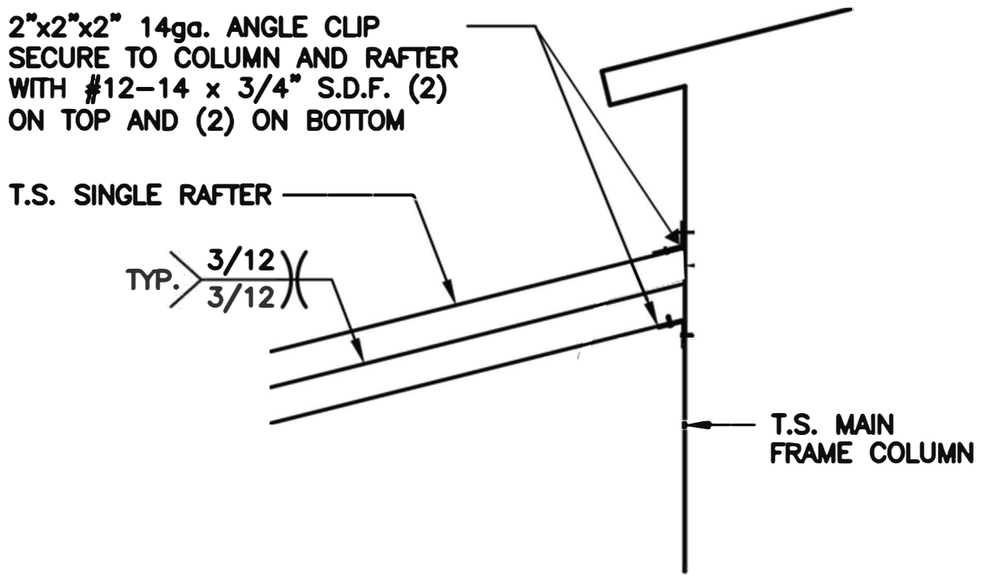
Karl Simms

LEAN-TO / MAIN FRAME CONNECTION DETAILS



1 / S15C LEAN-TO SINGLE RAFTER / BUILDING FRAME CONNECTION DETAIL

SCALE: 3/4" = 1'-0"



1A / S15C LEAN-TO DOUBLE RAFTER / BUILDING FRAME CONNECTION DETAIL

SCALE: 3/4" = 1'-0"

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL WARNES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND ENDORSEMENTS THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISIONS OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY: THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR OF SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE & NOR PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
LEAN-TO CONNECTION DETAILS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S15C

PROJECT NUMBER: MISC

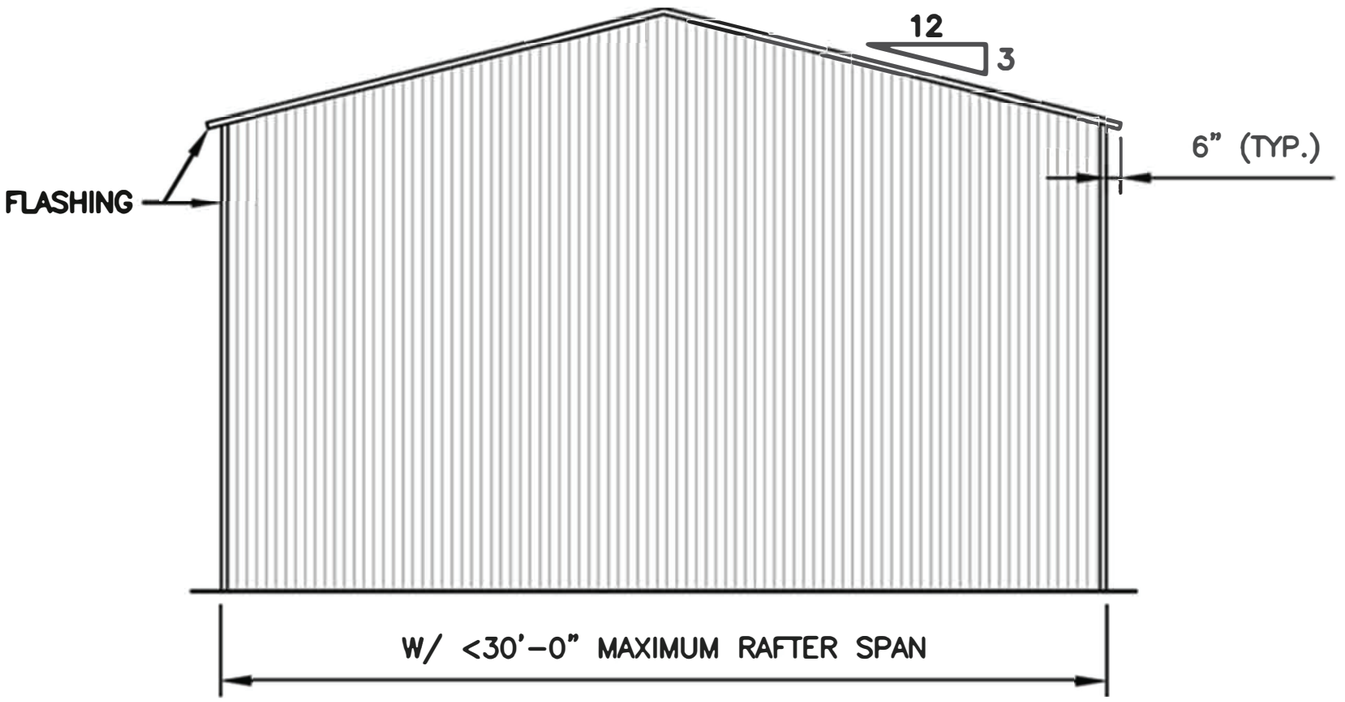
DRAWN BY: BKS

CHECKED BY: MHR

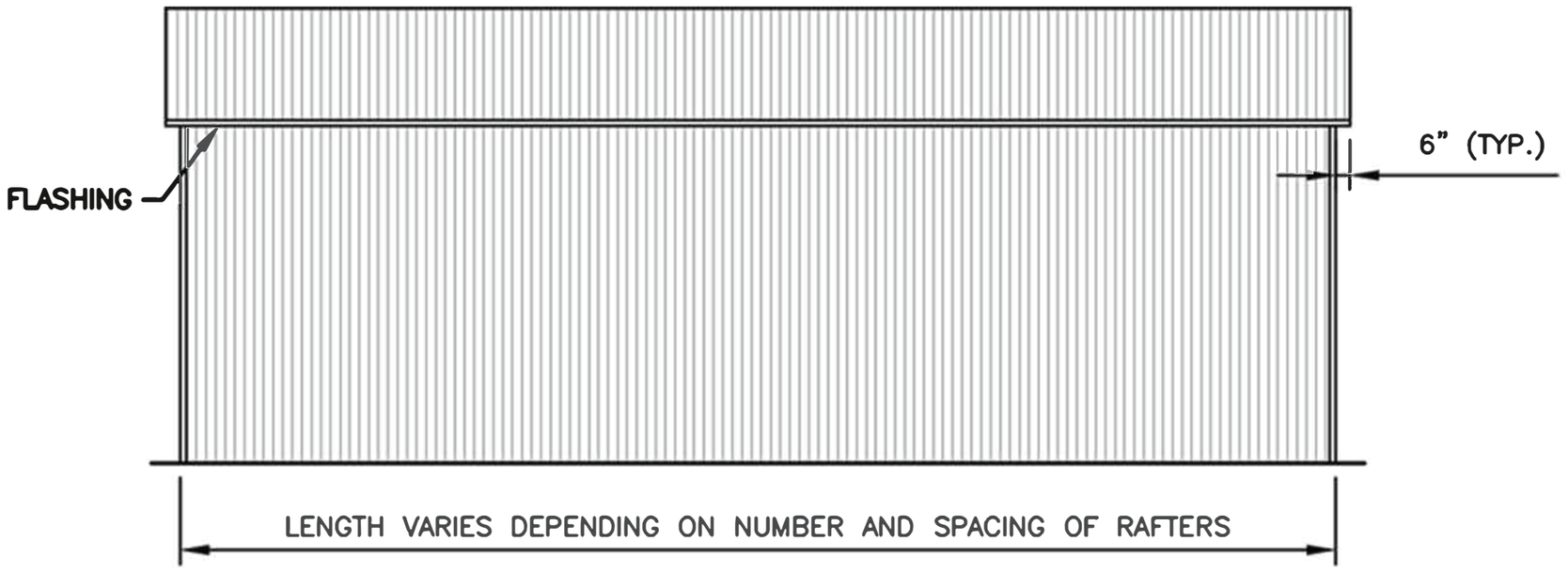
NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

Karl Simms

VERTICAL ROOF / SIDING OPTION



TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL SHALL HAVE ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DRAWINGS WHICH THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND OR/ FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE/REVISION CONFLICTS.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEYS FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBILITY: THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NO PROVISIONS OF THE CONTRACT CODUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & RISES
CAUTION:
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
VERTICAL ROOF / SIDING OPTION END AND SIDE ELEVATION

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER:
S16

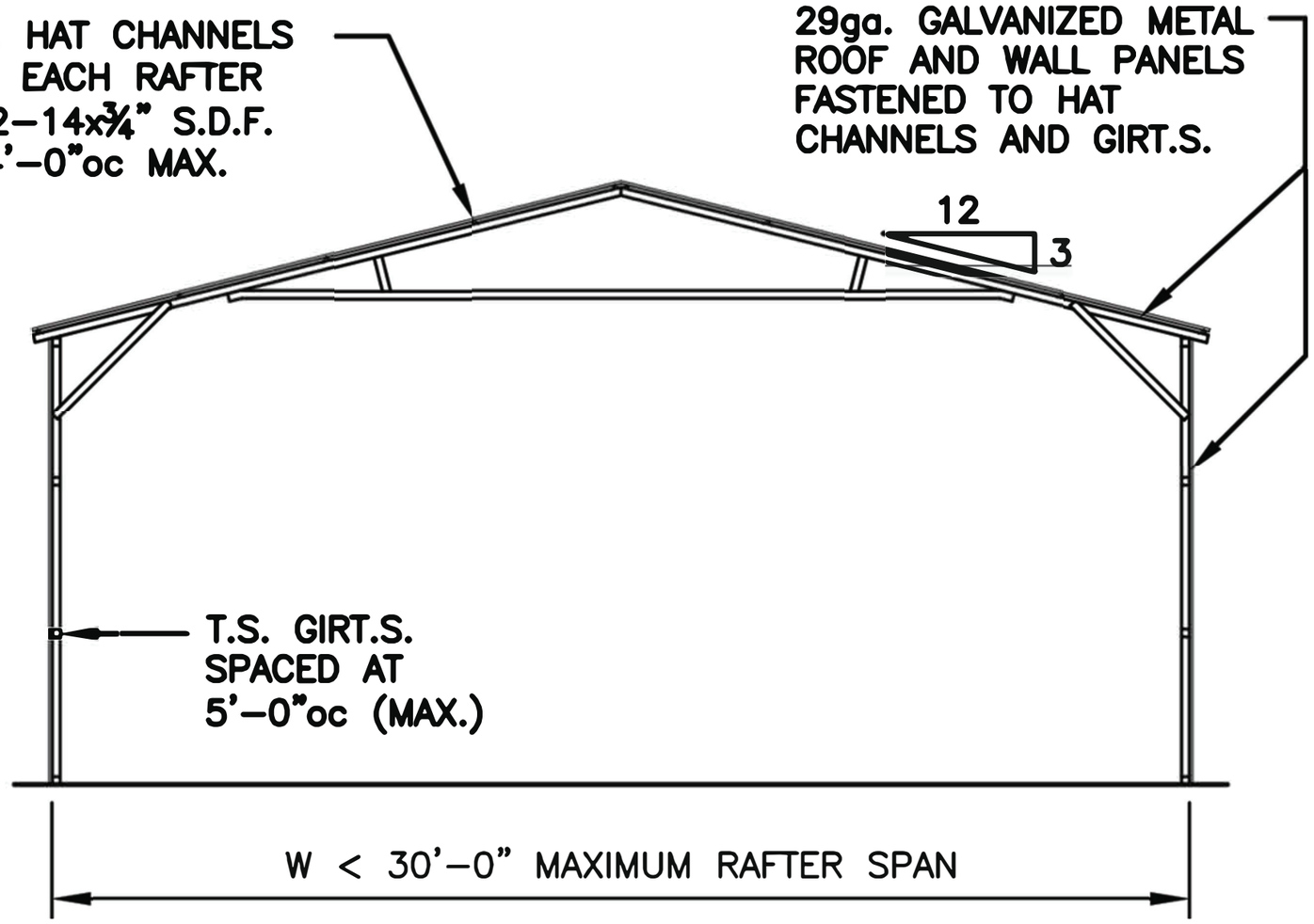
PROJECT NUMBER: MISC

DRAWN BY: BKS

CHECKED BY: MHR

Karl Simms

VERTICAL ROOF / SIDING OPTION



TYPICAL SECTION VERTICAL ROOF / SIDING OPTION

NOTE:
H.S.S. 2–1/2"x2–1/2"x14ga. OR 2–1/4"x2–1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.

PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL SHALL HAVE NO ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT IF THEY DO VARY. OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE AS YET UNDISCLOSED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR OF SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS SHALL NOT BE RESPONSIBLE FOR OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
VERTICAL ROOF / SIDING OPTION END SECTION

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES

ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER: S16A

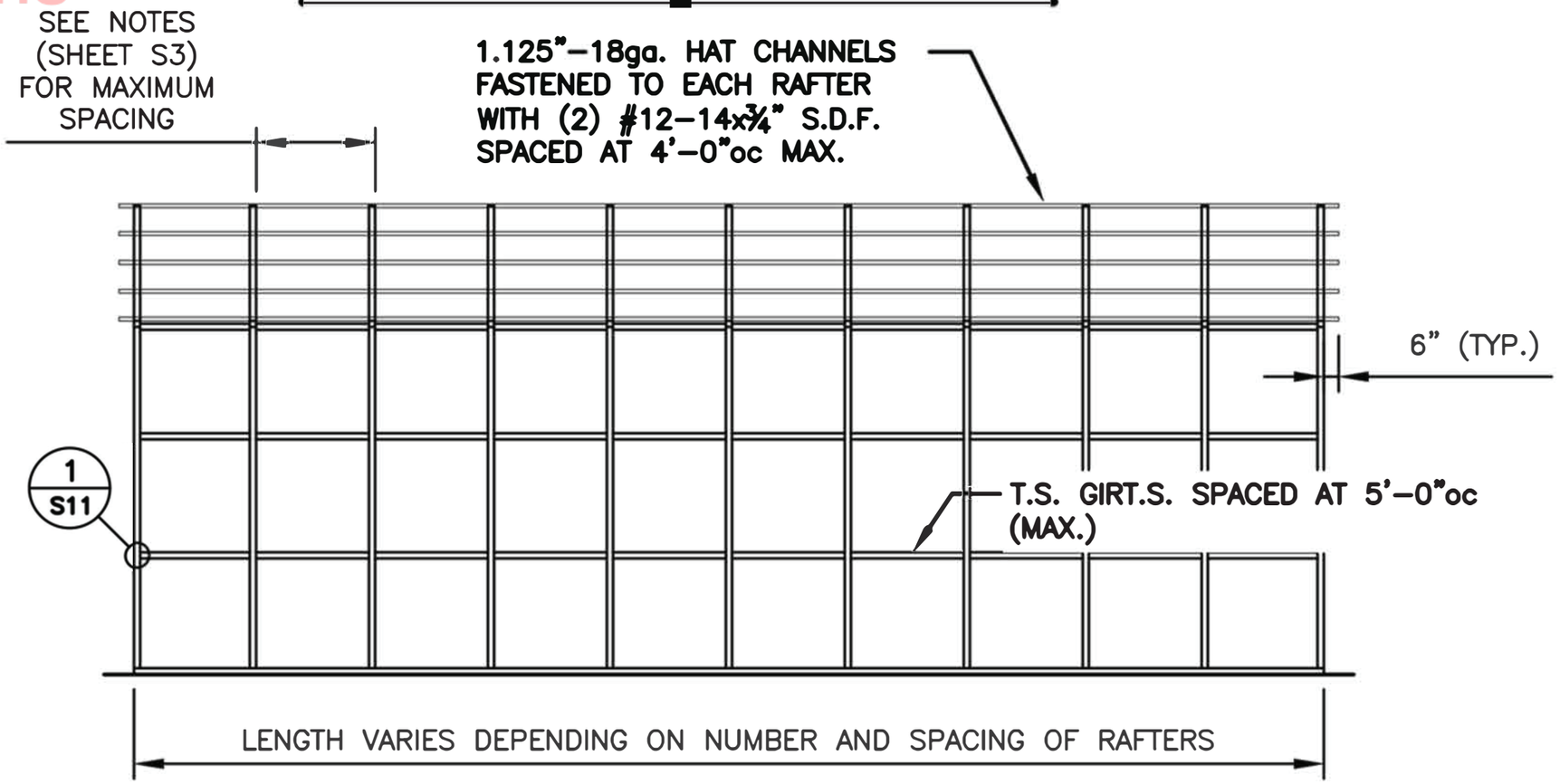
PROJECT NUMBER: MISC

DRAWN BY: BKS

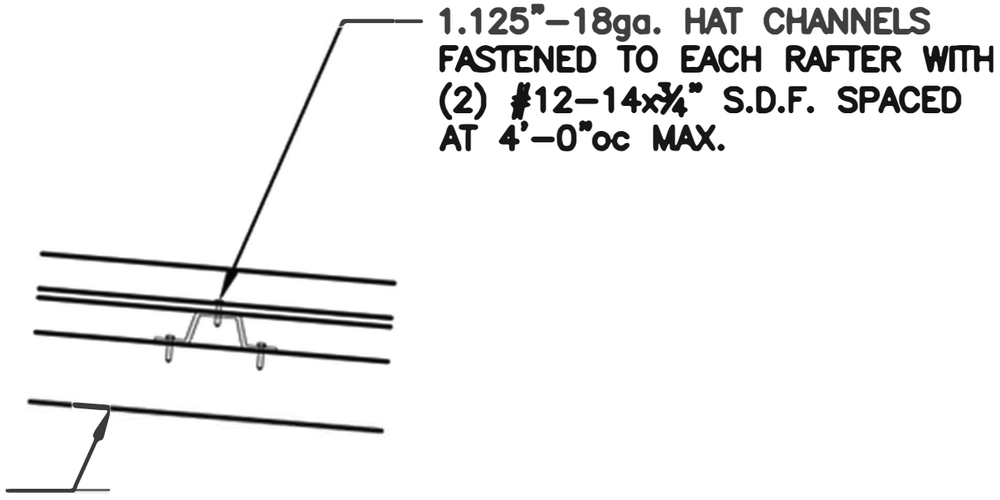
CHECKED BY: MHR

Karl Simms

VERTICAL ROOF / SIDING OPTION



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION



ROOF PANEL ATTACHMENT
NT.S.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL ASSUMES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR ASSIGNMENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM STRUCTURES FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH AREA NOTED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OR CHANGE.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS.

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR OF SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARED OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED, ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
VERTICAL ROOF / SIDING OPTION SIDE SECTION

ISSUE DATE: 02/23/2026

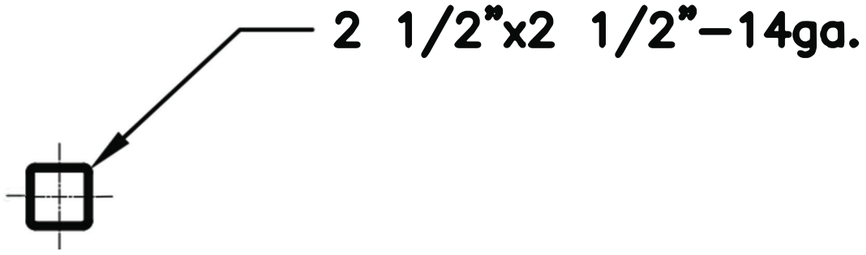
CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER:
S16B

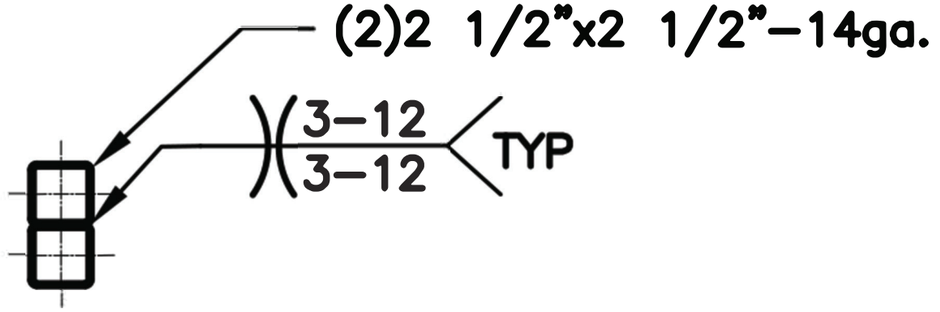
PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHR

Karl Simms

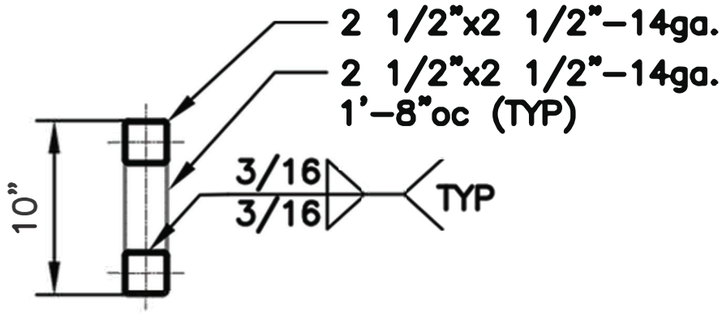
SIDE WALL HEADER OPTIONS



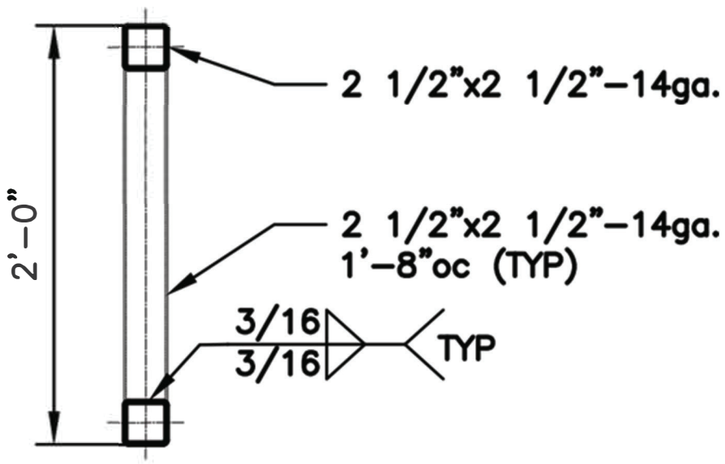
HEADER DETAIL FOR DOOR OPENINGS ≤ 4'–0"
NT.S.



HEADER DETAIL FOR DOOR OPENINGS 4'–1" ≤ TO ≤ 12'–0"
NT.S.



LACED HEADER DETAIL FOR DOOR OPENINGS 12'–1" ≤ TO ≤ 15'–0"
NT.S.



LACED HEADER DETAIL FOR DOOR OPENINGS 15'–1" ≤ TO ≤ 20'–0"

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL WARNES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND OR FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION IN THE EVENT OF CODE REVISION OCCURANCES.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEYS FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NO PROVISIONS OF THE CONTRACT CODUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & RISES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
xxxx	xxxx	
xxxx	xxxx	

SHEET NAME:
SIDE WALL HEADER OPTIONS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

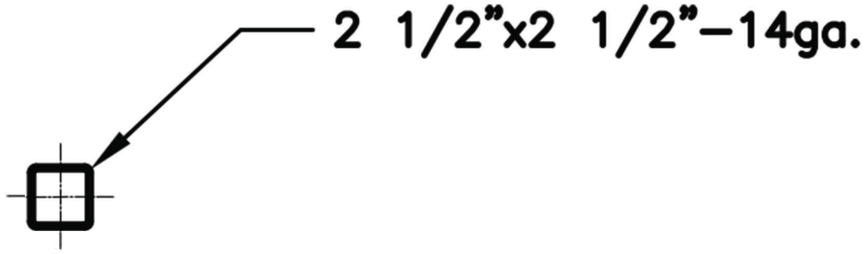
SHEET NUMBER: S17

PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY MHR

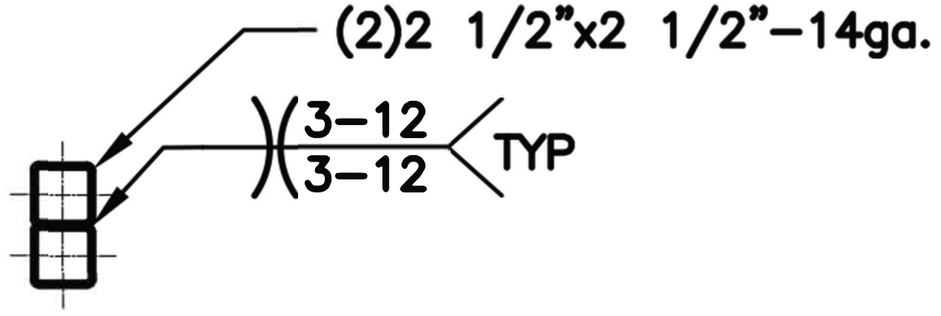
NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

Karl Simms

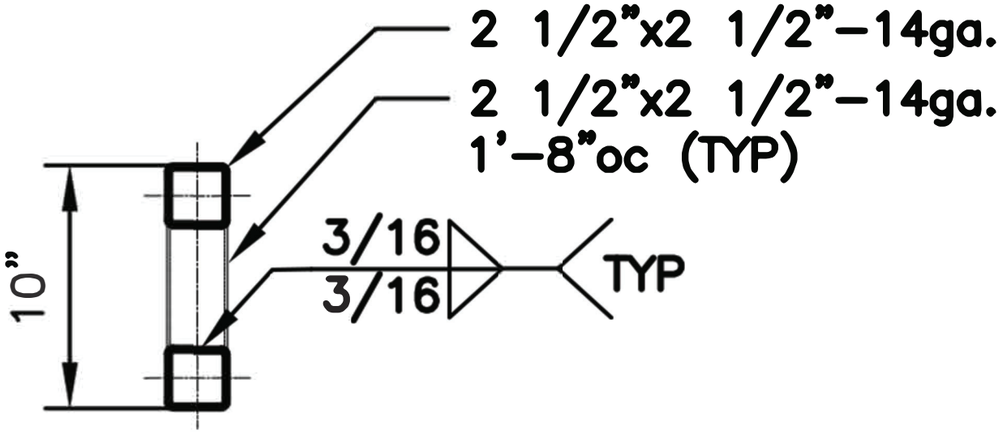
END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS ≤ 7'–0"
NT.S.



HEADER DETAIL FOR DOOR OPENINGS 7'–1" ≤ TO ≤ 16'–0"
NT.S.



LACED HEADER DETAIL FOR DOOR OPENINGS 16'–1" ≤ TO ≤ 20'–0"
NT.S.

NOTE: THIS DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THE SHEET.

THIS DRAWING IS PRELIMINARY UNTIL SIGNED AND SEALED BY THE LICENSED PROFESSIONAL NOTED BELOW.
PROFESSIONAL SEAL

DESIGN PROFESSIONAL
DOTec Engineering
118 N 2nd St,
St. Charles, MO 63301
Ph 636-724-9872
Fx 636-385-5059
WWW.DOTECENGINEERING.COM
INFO@DOTECENGINEERING.COM

THE DESIGN PROFESSIONAL OWNS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND INCONVENIENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS FAILURE TO OBTAIN AND OR/ FOLLOW THE DESIGN PROFESSIONAL GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH AREA IS EED. BUILDINGS TO BE CONSTRUCTED IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND RESTRICTIONS. THE DESIGN PROFESSIONAL TO BE NOTIFIED PRIOR TO CONSTRUCTION. IN THE EVENT OF CODE REVISION OR CHANGE.

NOTE:
ANY USE OR REUSE OF ORIGINAL OR ALTERED DRAWINGS BY OWNER, AGENTS OF OWNER, OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF DOTec ENGINEERING, SHALL BE AT THE SOLE RISK OF THE OWNER. FURTHERMORE, THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD DOTec ENGINEERING HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEYS FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE DRAWINGS

NOTE:
RESPONSIBLE THE ENGINEER SHALL NOT BE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE & NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR FROM ANY LIABILITY DUE TO NEGLIGENCE, INCOMPETENCE, OR ERRORS OF OMISSION OR COMMISSION OF THE CONTRACTOR.

UNAUTHORIZED CHANGES & USES
CAUTION!
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

INSTRUMENTS OF SERVICE
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND REMAIN THE PROPERTY OF DOTec ENGINEERING. THEY ARE NOT TO BE REPRODUCED OR ALTERED IN ANY WAY, NOR DISCLOSED OR ASSIGNED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF DOTec ENGINEERING

ISSUE	DATE	DESCRIPTION
XXXX	XXXX	
XXXX	XXXX	

SHEET NAME:
END WALL HEADER OPTIONS

ISSUE DATE: 02/28/2026

CLIENT: NC CARPORTS & GARAGES
ADDRESS: 116 EAST MARKET STEET ,ELKIN,NC,USA

SHEET NUMBER:
S17A

PROJECT NUMBER: MISC
DRAWN BY: BKS
CHECKED BY: MHR