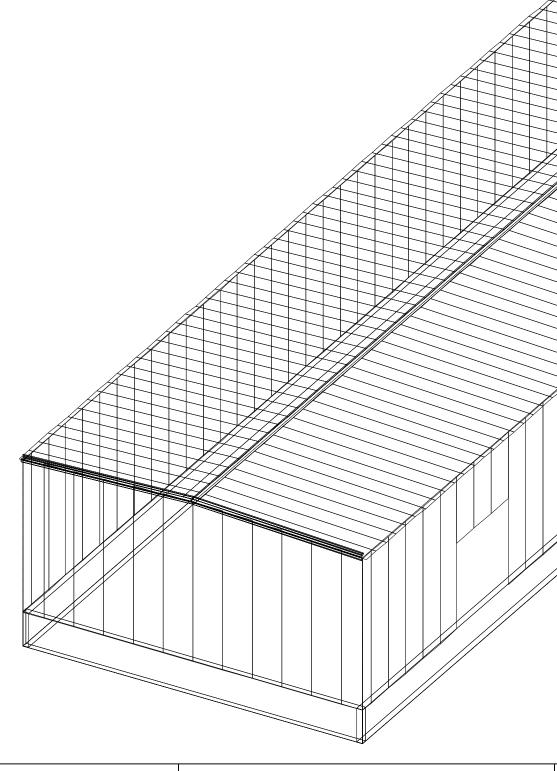


Butler Manufacturing

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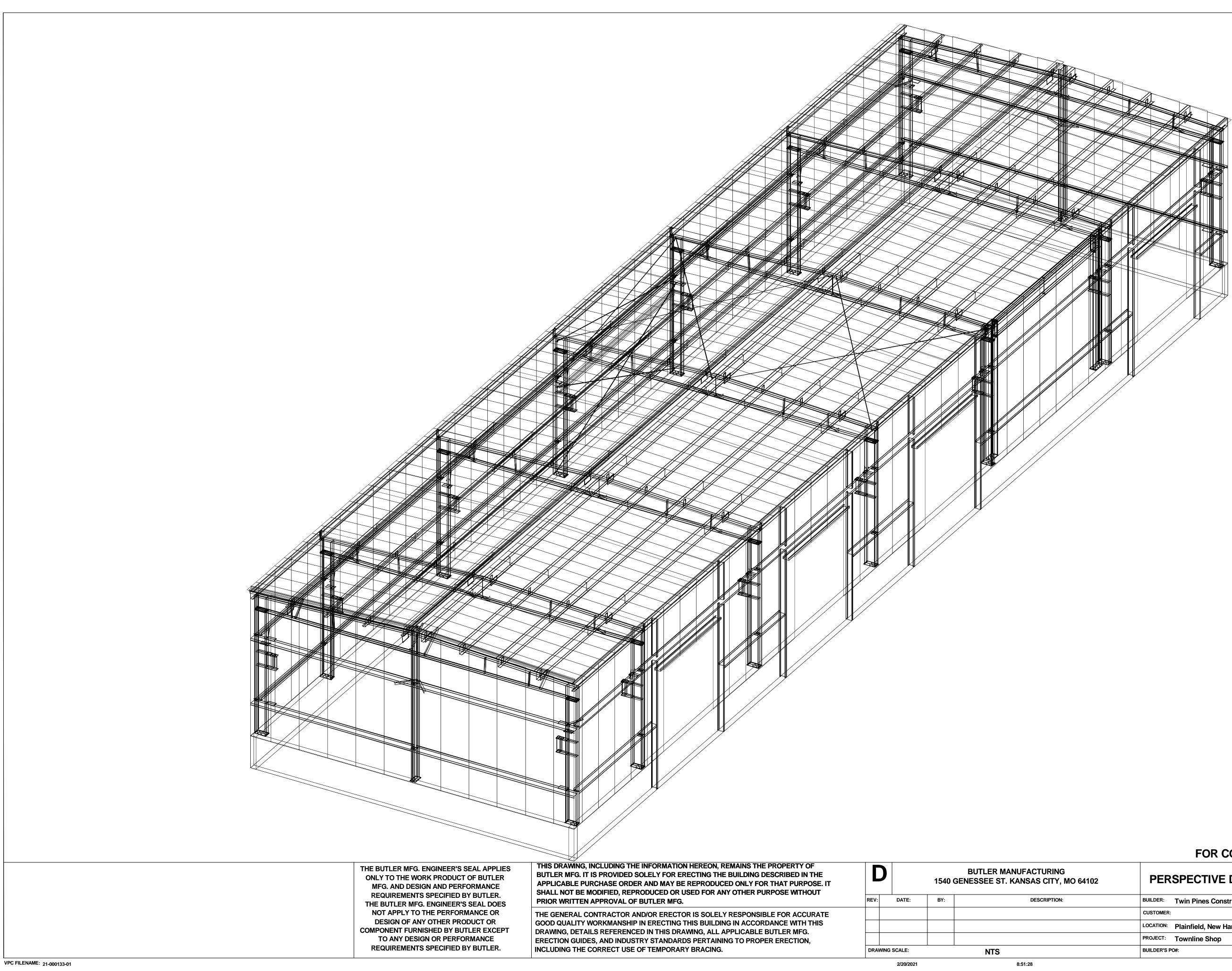
DRAWING INDE	X	
DRAWING TITLE	PAGES	
COVER SHEET	1	Anchor rods
CODES AND LOADS	2 & 2a	Erection Dra
NOTES	3	
ANCHOR ROD PLAN	4	
PRIMARY STRUCTURAL	5-16	
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COVERING	26-33	
SPECIAL DRAWINGS		
STANDARD ERECTION DETAILS		
PLANOGRAPH DETAILS	34-74	

Note: Building is not designed for any future expansion.



THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE **REQUIREMENTS SPECIFIED BY BUTLER.**

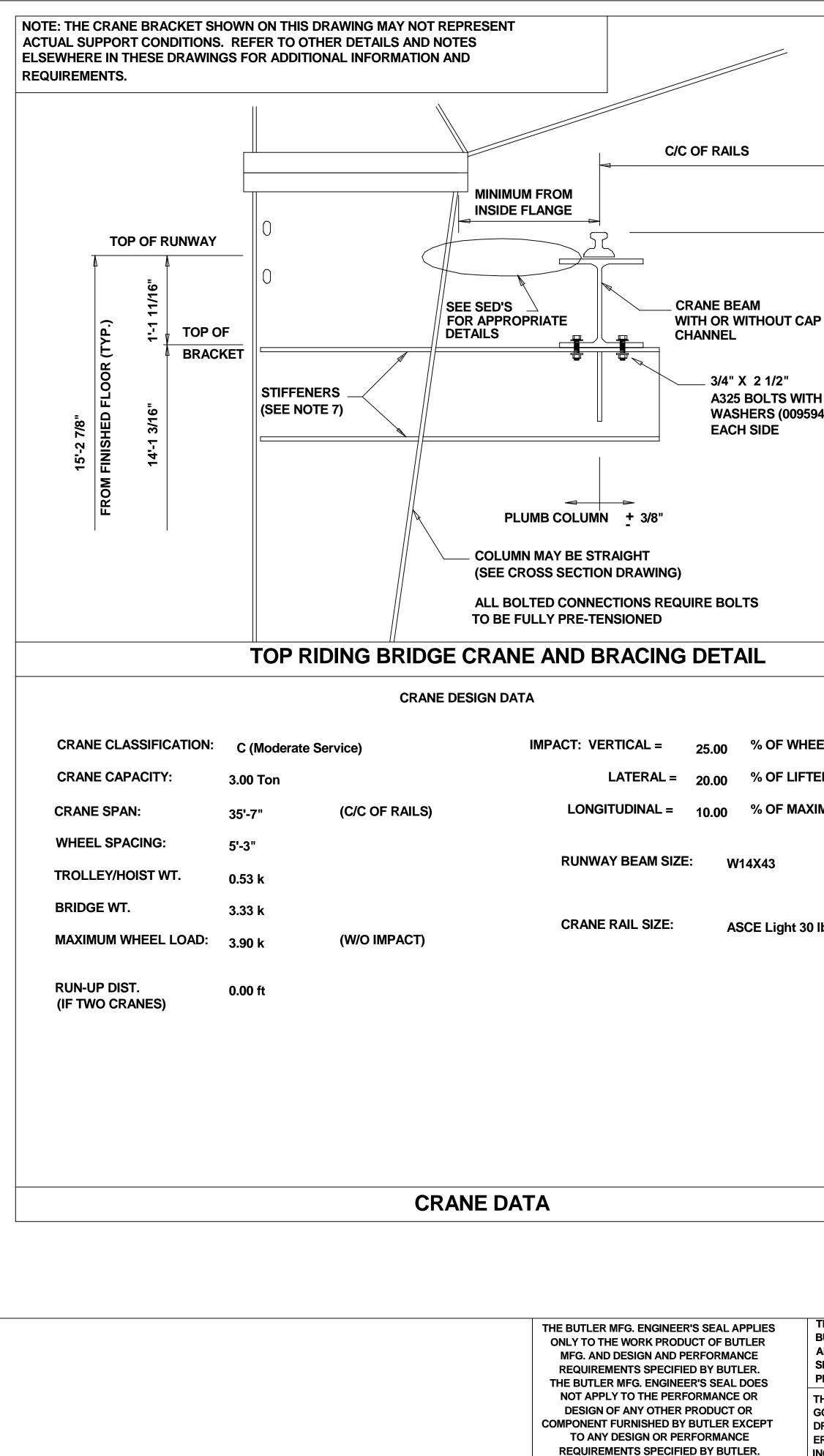
DRAWI	NG RELEASE H	HISTORY			GENERAL NOTES		
TYPE	DATE	DESCRIPTION	ΜΔΤΙ	ERIALS	ASTM DESIGNATION		
wings _ Rev-0	2/20/2021 03/25/2021	FOR CONSTRUCTION FOR CONSTRUCTION		3 PLATE WELDED SECTIONS COLD FORMED LIGHT GAGE SHAPES BRACE RODS	A529, A572, A1011, A1018 A653, A1011 A572, A510	GRADE 55 GRADE 60 GRADE 50	
				HOT ROLLED MILL SHAPES HOT ROLLED ANGLES HOLLOW STRUCTURAL SECTION (HSS) CLADDING	A36, A529, A572, A588, A992 A529, A572, A588, A992 A500 A653, A792	GRADE 36 OR 50 GRADE 50 GRADE B GRADE 50 OR GRADE 80	
			HIGH	I STRENGTH BOLT TIGHTENIN	-		
				IT IS THE RESPONSIBILITY OF THE ERECTO REGULATIONS. SEE RCSC SPECIFICATION SEE ERECTION GUIDE FOR BOLT TIGHTENI THE BOLT TIGHTNESS (I.ESNUG TIGHT OR	R TO ENSURE PROPER BOLT TIGHTNESS IN A FOR STRUCTURAL JOINTS USING HIGH STRE NG INSTRUCTIONS. THE FOLLOWING CRITER PRE-TENSION) UNLESS REQUIRED OTHERWI	NGTH BOLTS FOR MORE INFORMATION. IA MAY BE USED TO DETERMINE	
				CONTRACT. ALL A490 BOLTS SHALL BE "PRE-TENSIONI "SNUG-TIGHT" EXCEPT AS FOLLOWS;	ED". A325 BOLTS IN PRIMARY FRAMING AND	BRACING CONNECTIONS MAY BE	
				PRE-TENSION A325 BOLTS IF BUILDIN	G SUPPORTS A CRANE GREATER THAN 5 TO	N CAPACITY.	
				PRE-TENSION A325 BOLTS IF BUILDIN REVERSALS ON CONNECTIONS.	G SUPPORTS MACHINERY THAT CREATES VI	BRATION, IMPACT, OR STRESS	
					D IN HIGH SEISMIC AREAS. FOR IBC BASED (DDES AND LOADS SECTION BELOW FOR DET	-	
					I DESIGNATION A325-SC. SLIP CRITICAL (SC) THAT REDUCE FRICTION AT CONTACT SURF E.		
				FLANGE BRACES.	S SHALL BE "PRE-TENSIONED", EXCEPT FOR		
				SECONDARY MEMBERS AND FLANGE BRA(ERECTION DRAWING DETAILS.	E CONNECTIONS ARE ALWAYS "SNUG TIGHT	I", UNLESS INDICATED OTHERWISE IN	
			INSF	PECTION AND TESTING			
				QUALITY ASSURANCE AGENCY (QAA) APPE BBNA FABRICATION FACILITIES. THE TYPE	THE OWNER OR OWNERS AUTHORIZED AGENT ROVED BY THE AHJ. THE BUILDER IS RESPON AND EXTENT OF SPECIAL INSPECTIONS AND R BBNA WILL ASSUME SPECIAL INSPECTIONS ACILITIES IAS AC472 ACCREDITATION.	NSIBLE TO COORDINATE BETWEEN THE	QAA FIRM AND ALLY
				 Masonry walls are free s This building is not Designed from the BMC root This building is not designed from the public suspended from t	esigned for future expansion in tanding and self-supporting. gned for concentrated loads of f or walls gned to loads of fire suppressi urlins or rafters ned to support a 3-ton crane. ane stops. Hook bolts, rail clam	250 lb. or greater on or sus on lines larger than 4" that	
		Designer: Juliet Bodley Date: 3/30/2021 Pages 1-33					
THIS DRAWING, INCLUDING THE INFORMAT BUTLER MFG. IT IS PROVIDED SOLELY FOR APPLICABLE PURCHASE ORDER AND MAY BHALL NOT BE MODIFIED, REPRODUCED OI	ERECTING THE BUILDI	NG DESCRIBED IN THE D		R MANUFACTURING ST. KANSAS CITY, MO 64102	COVER SHEET		
PRIOR WRITTEN APPROVAL OF BUTLER MF	G.				BUILDER: Twin Pines Construction		JOB #: 21-000133-01
HE GENERAL CONTRACTOR AND/OR EREC OOD QUALITY WORKMANSHIP IN ERECTIN	G THIS BUILDING IN AC	CORDANCE WITH THIS			OCATION: Plainfield, New Hampshire	BUTLER	DATE: 2/15/2021 DRAWN/CHECK:
RAWING, DETAILS REFERENCED IN THIS D RECTION GUIDES, AND INDUSTRY STANDA	RDS PERTAINING TO P			_	PROJECT: Townline Shop		PAGE:
ICLUDING THE CORRECT USE OF TEMPOR	AKY BKACING.	2/20/2	021	8:51:27	BUILDER'S PO#:	VPC VERSION: 2020.4d a division of BlueScope Buildings North Ameri	1



FOR CONSTRUCTION

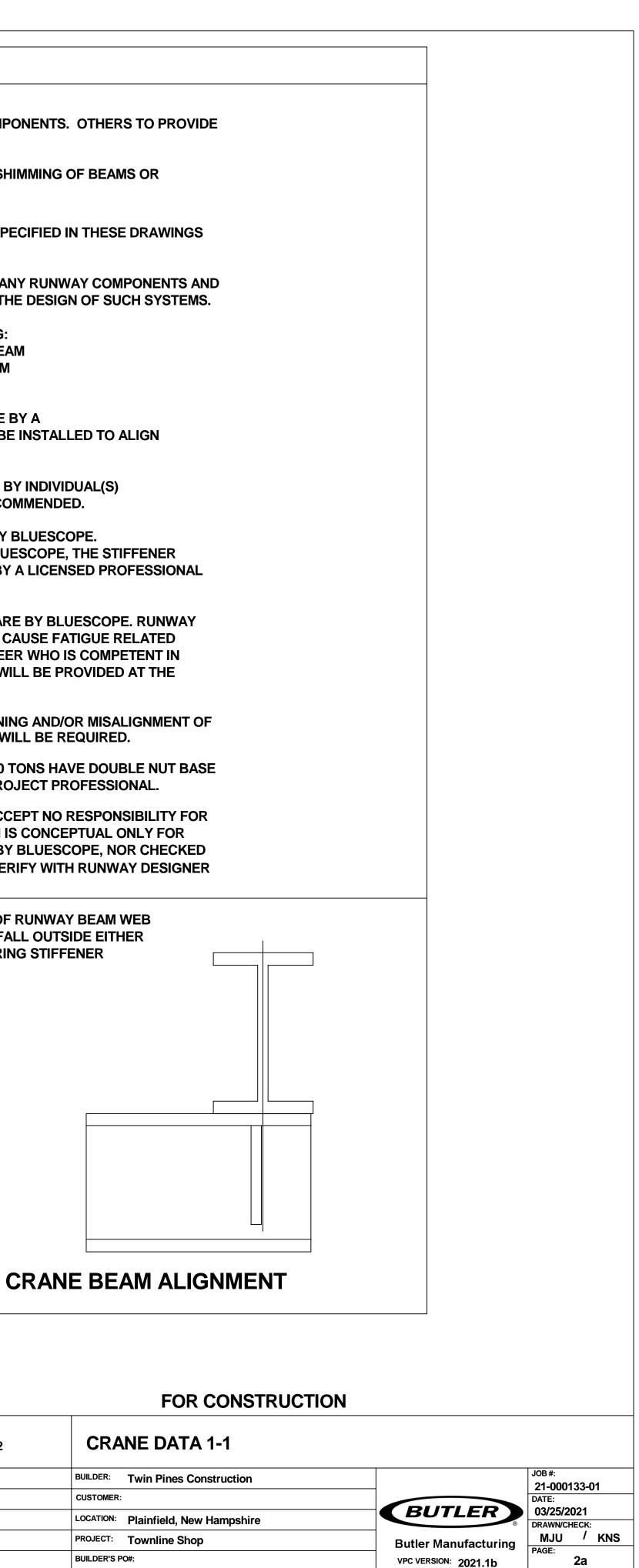
PERSPECTIVE DRAWING		
BUILDER: Twin Pines Construction		JOB #:
CUSTOMER:		21-000133-01 DATE: 2/45/2024
LOCATION: Plainfield, New Hampshire	BUTLER	2/15/2021 DRAWN/CHECK:
PROJECT: Townline Shop	Butler Manufacturing	1
BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 2
a di	vision of BlueScope Buildings North Ameri	ca Inc

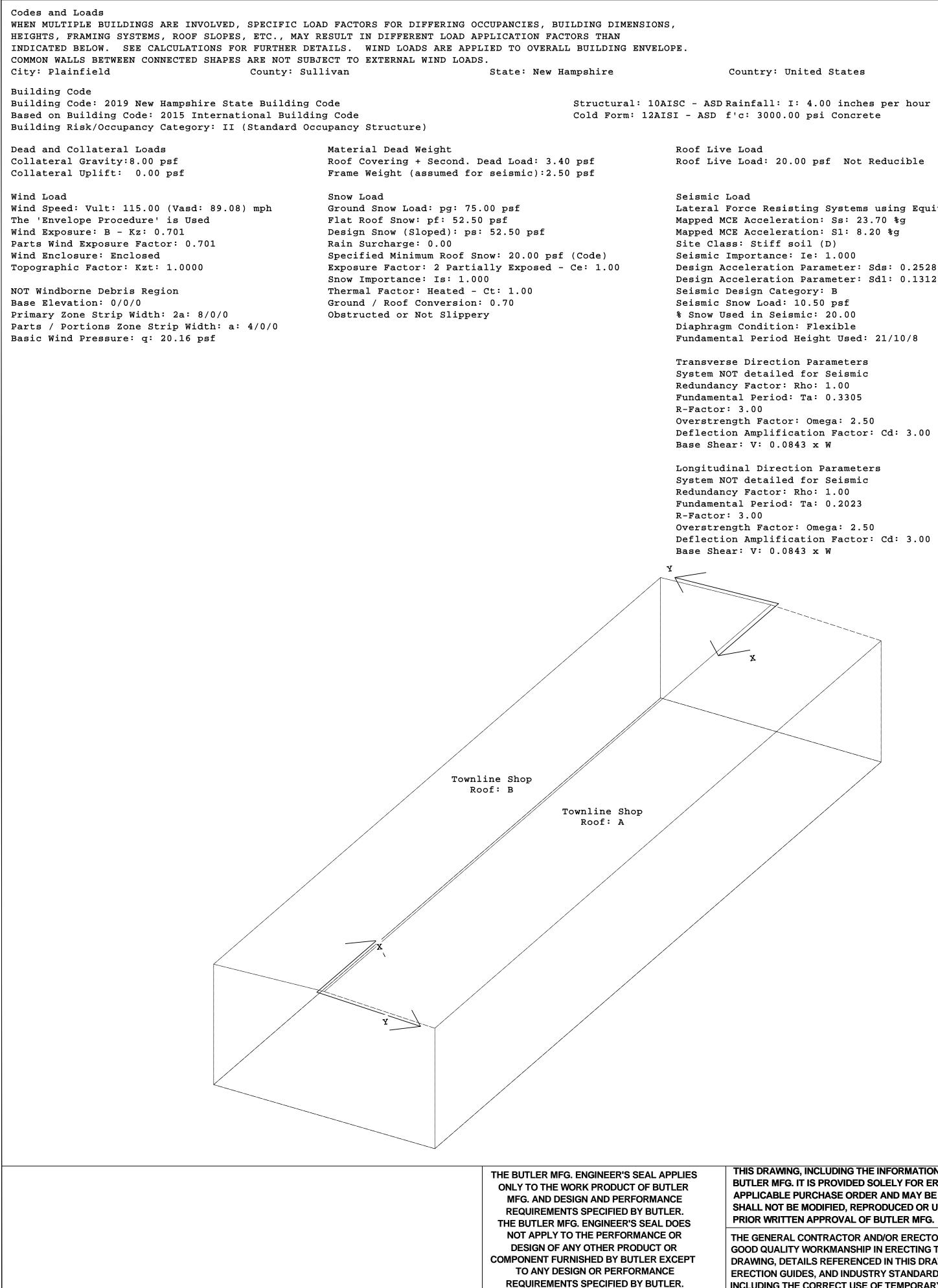
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	NC	DTES
	1) CRANE OPERATIONS MAY CAUSE VIBRATIONS IN ROD BRACING AND OTHE AND INSTALL CLAMPS OR TIES AS REQUIRED TO MINIMIZE VIBRATION NOIS	
_	2) CRANE BRACKET ELEVATIONS MAY VARY SLIGHTLY DUE TO FABRICATION LEVELING AND GROUTING OF COLUMN BASES MAY BE REQUIRED BY THE E	
	3) DO NOT WELD TO CRANE RUNWAY BEAMS OR SUPPORT BRACKETS OTHE WITHOUT THE ADVANCE WRITTEN CONSENT OF THE RUNWAY BEAM DESIGN	
TOP OF RAIL	4) CRANE RUNWAY SYSTEMS ARE SUBJECT TO FATIGUE RELATED PROBLEM DETAILS SUPPLIEDMUST BE DEVELOPED BY A PROFESSIONAL ENGINEER	
15'-6" FINISHED FLOOR	5) CRANE RAIL ATTACHMENTS MUST PERFORM SEVERAL IMPORTANT FUNCT - TRANSFER OF LATERAL CRANE LOADS FROM THE TOP OF THE RAIL TO - ALLOW THE RAIL TO "FLOAT" LONGITUDINALLY RELATIVE TO THE CRAN - ALLOW FOR ADJUSTMENT/ALIGNMENT OF THE RAIL - HOLD THE RAIL IN PLACE LATERALLY SELECTION OF THE APPROPRIATE METHOD FOR CRANE RAIL ATTACHMEN	THE RUNWAY BEANNE RUNWAY BEAM
	PROFESSIONAL ENGINEER COMPETENT IN THIS AREA OF DESIGN. THE CRA WITH THE WEB OF THE RUNWAY BEAMS WITHIN THE TOLERANCE SHOWN IN	I THE DETAILS.
Ë	6) THE DESIGN AND ATTACHMENT DETAILS FOR THE CRANE END STOPS MUST QUALIFIED TO DO SO. COORDINATION WITH THE CRANE MANUFACTURER IS	S STRONGLY RECO
	7) THE STIFFENERS SHOWN ARE PROVIDED ONLY WHEN THE CRANE BRACKE THESE STIFFENERS ARE ALWAYS REQUIRED. IN CASES WHERE THE BRACK WIDTH, LENGTH, THICKNESS, FIELD WELDING REQUIREMENTS, ETC MUST B ENGINEER COMPETENT IN THE AREA OF BRIDGE CRANE DESIGN IN STEEL E	(ET IS NOT BY BLUI E DETERMINED BY
	8) THE CRANE RUNWAY TIE-BACKS ARE ONLY PROVIDED WHEN THE CRANE R TIE-BACKS ARE ALWAYS REQUIRED. IMPROPER DESIGN AND DETAILING OF PROBLEMS AND THEREFORE SHOULD BE DESIGNED BY A LICENSED PROFE THE AREA OF BRIDGE CRANE RUNWAY SYSTEM DESIGN. THE BEARING STIL ELEVATION SHOWN ONLY WHEN THE RUNWAY BEAM IS BY BLUESCOPE.	TIE-BACKS CAN C
	9) THE CYCLIC NATURE OF BRIDGE CRANE EFFECTS WILL TEND TO CAUSE G SOME BUILDING COMPONENTS. PERIODIC INSPECTION OF CONNECTIONS	
	10) BLUESCOPE HIGHLY RECOMMENDS THAT COLUMN SUPPORTING CRANES O DETAIL WITH NON-COMPRESSABLE GROUT TO FACILITATE PROPER LEVELI	
EL LOAD ED LOAD + TROLLEY MUM WHEEL LOADS, PER RAIL	11) WHEN BEAMS AND/OR RAILS ARE INDICATED AS "BY OTHERS", BLUESCOP DESIGN OR FABRICATION OR SUPPLY OF THESE ELEMENTS. THE CRANE BE THE DESIGN OF SUPPORTING ELEMENTS AND SHOULD NOT BE CONSIDERED BY BLUESCOPE ENGINEERS, NOR SUPPLIED BY BLUESCOPE COMPANIES. I ACTUAL SIZE OF BEAM.	EAM SIZE SHOWN IS D AS DESIGNED BY
	RAIL ALIGNMENT TO BEAM ± .75 x t	CENTERLINE OF SHOULD NOT FA FACE OF BEARIN
lb/yd By Others		
	t	

Shape Name = Townline Shop, Wall = 4					
THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT	D		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 6		
PRIOR WRITTEN APPROVAL OF BUTLER MFG.	REV:	DATE:	BY:	DESCRIPTION:	
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,					
INCLUDING THE CORRECT USE OF TEMPORARY BRACING.	DRAWI	NG SCALE:		NTS	
		3/31/2021		8:38:04	

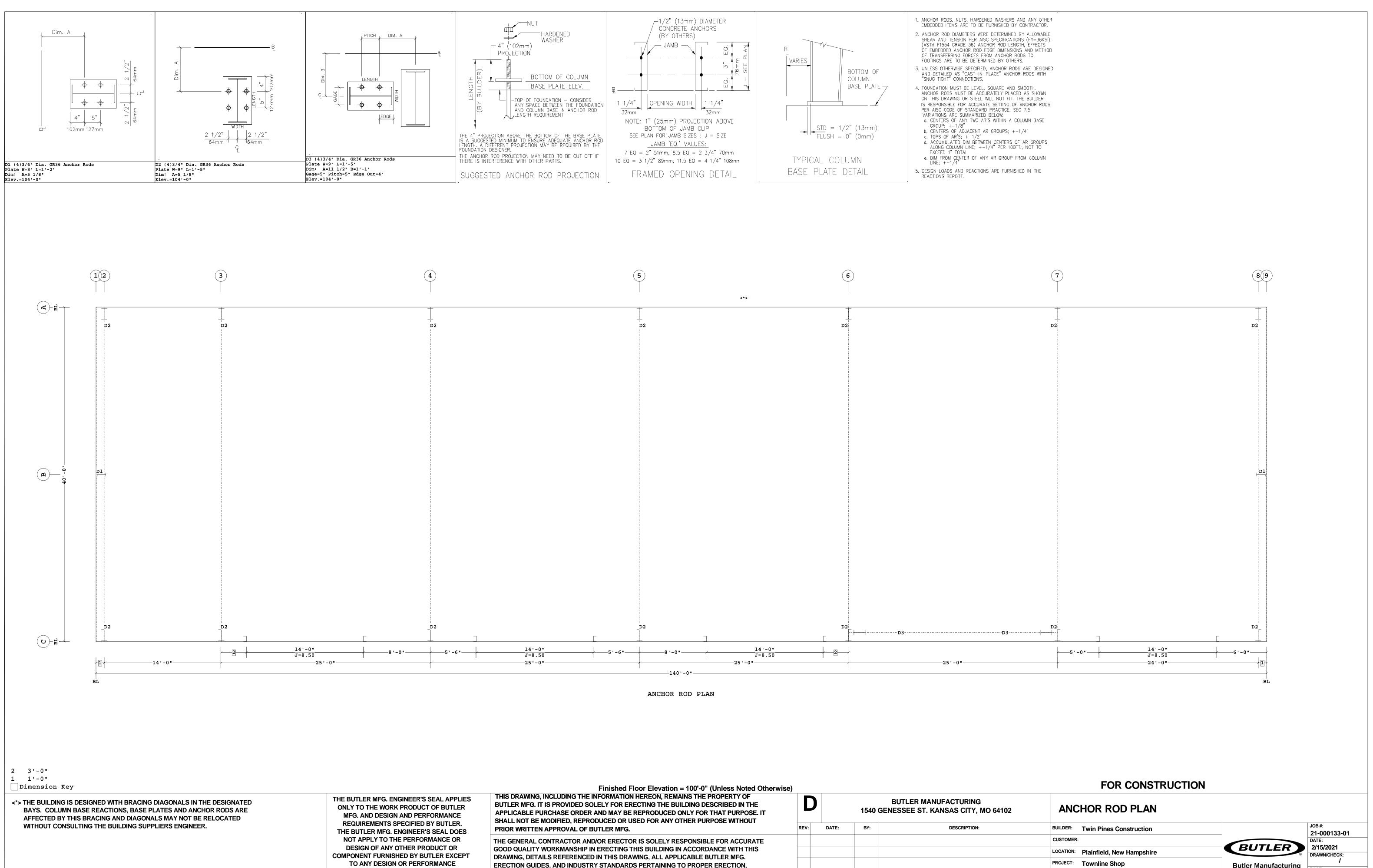




	Snow Buildup					
	Shape	Surface	Description	X Location	Y Location	Magnitude
	Townline Shop	Roof: A	Unbalanced Snow Load 1, Shifted Left : Roof: A	0.0 ft	20.0 ft	9.9 psf
				0.0 ft	0.0 ft	9.9 psf
				140.0 ft	0.0 ft	9.9 psf
Country: United States				140.0 ft	20.0 ft	9.9 psf
	Townline Shop	Roof: B	Unbalanced Snow Load 1, Shifted Right : Roof: B	140.0 ft	0.0 ft	9.9 psf
				140.0 ft	20.0 ft	9.9 psf
DRainfall: I: 4.00 inches per hour				0.0 ft	20.0 ft	9.9 psf
f'c: 3000.00 psi Concrete				0.0 ft	0.0 ft	9.9 psf
ive Load ive Load: 20.00 psf Not Reducible						
c Load						
l Force Resisting Systems using Equivalent Force Procedure						
MCE Acceleration: Ss: 23.70 %g						
MCE Acceleration: S1: 8.20 %g						
lass: Stiff soil (D)						
c Importance: Ie: 1.000						
Acceleration Parameter: Sds: 0.2528						
Acceleration Parameter: Sd1: 0.1312						
c Design Category: B						
r Snow Load: 10 50 psf						

THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT	D		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			
PRIOR WRITTEN APPROVAL OF BUTLER MFG.	REV:	DATE:	BY:	DESCRIPTION:		
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG.						
ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,						
NCLUDING THE CORRECT USE OF TEMPORARY BRACING.	DRAWIN	NG SCALE:		NTS		
		2/20/2021		8:51:28		

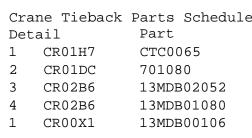
CODES AND LOADS		
BUILDER: Twin Pines Construction		JOB #: 21-000133-01
CUSTOMER:		DATE:
LOCATION: Plainfield, New Hampshire	BUTLER	2/15/2021 DRAWN/CHECK:
PROJECT: Townline Shop	Butler Manufacturing	/
BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 3
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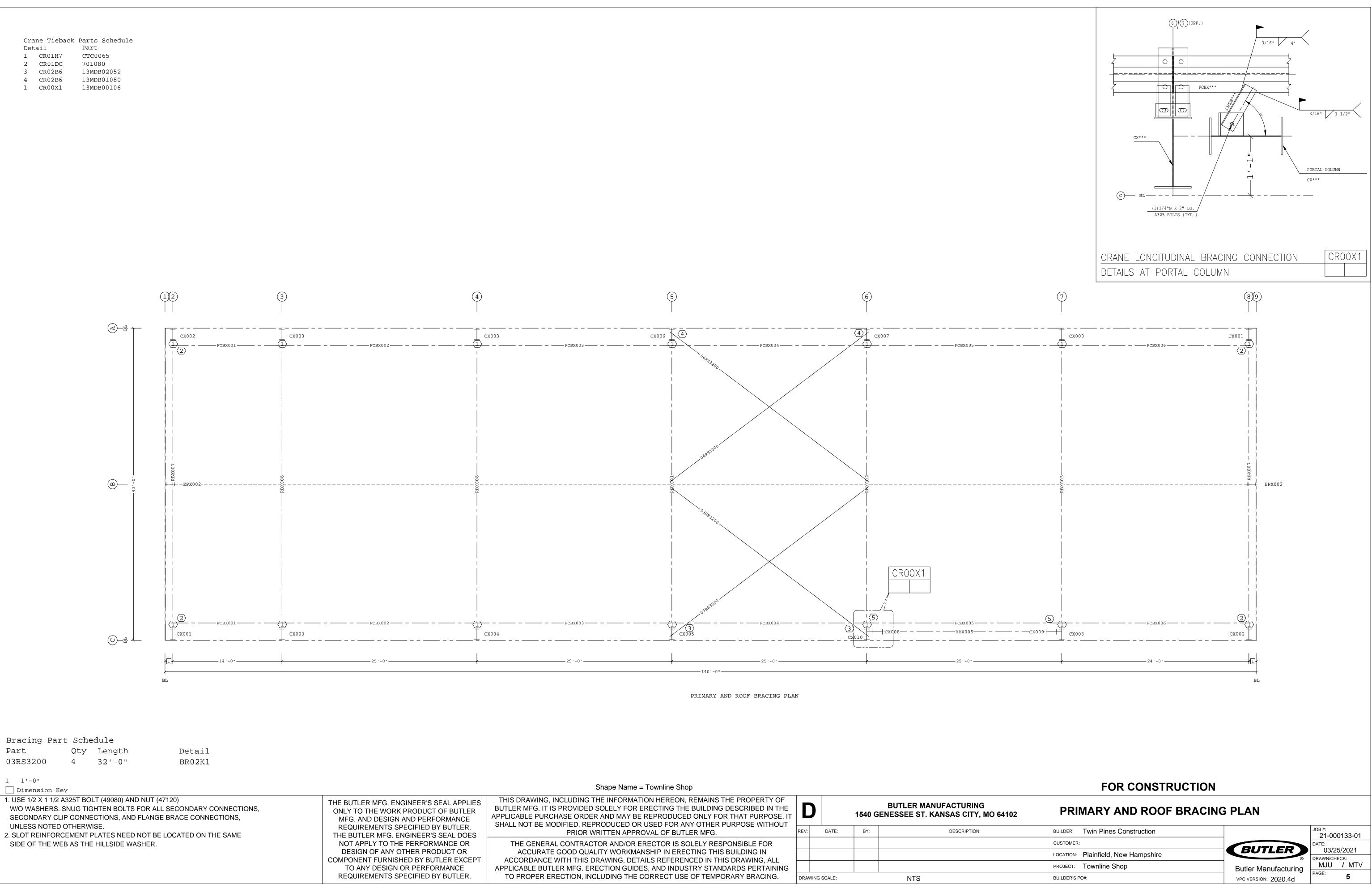


REQUIREMENTS SPECIFIED BY BUTLER.

THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT		D		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		
PRIOR WRITTEN APPROVAL OF BUTLER MFG.	REV:	DATE:	BY:	DESCRIPTION:		
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG.						
ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, NCLUDING THE CORRECT USE OF TEMPORARY BRACING.	DRAWIN	G SCALE:		NTS		
	1	2/20/2021		8:51:29		

ANCHOR ROD PLAN	
 BUILDER: Twin Pines Construction	JOB #:
CUSTOMER:	21-000133-0 DATE:
LOCATION: Plainfield, New Hampshire	BUTLER 2/15/2021 DRAWN/CHECK:
PROJECT: Townline Shop	Butler Manufacturing /
 BUILDER'S PO#:	VPC VERSION: 2020.4d 4





FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\5-21-000133-01_PRIMARY AND ROOF BRACING PLAN .dwg

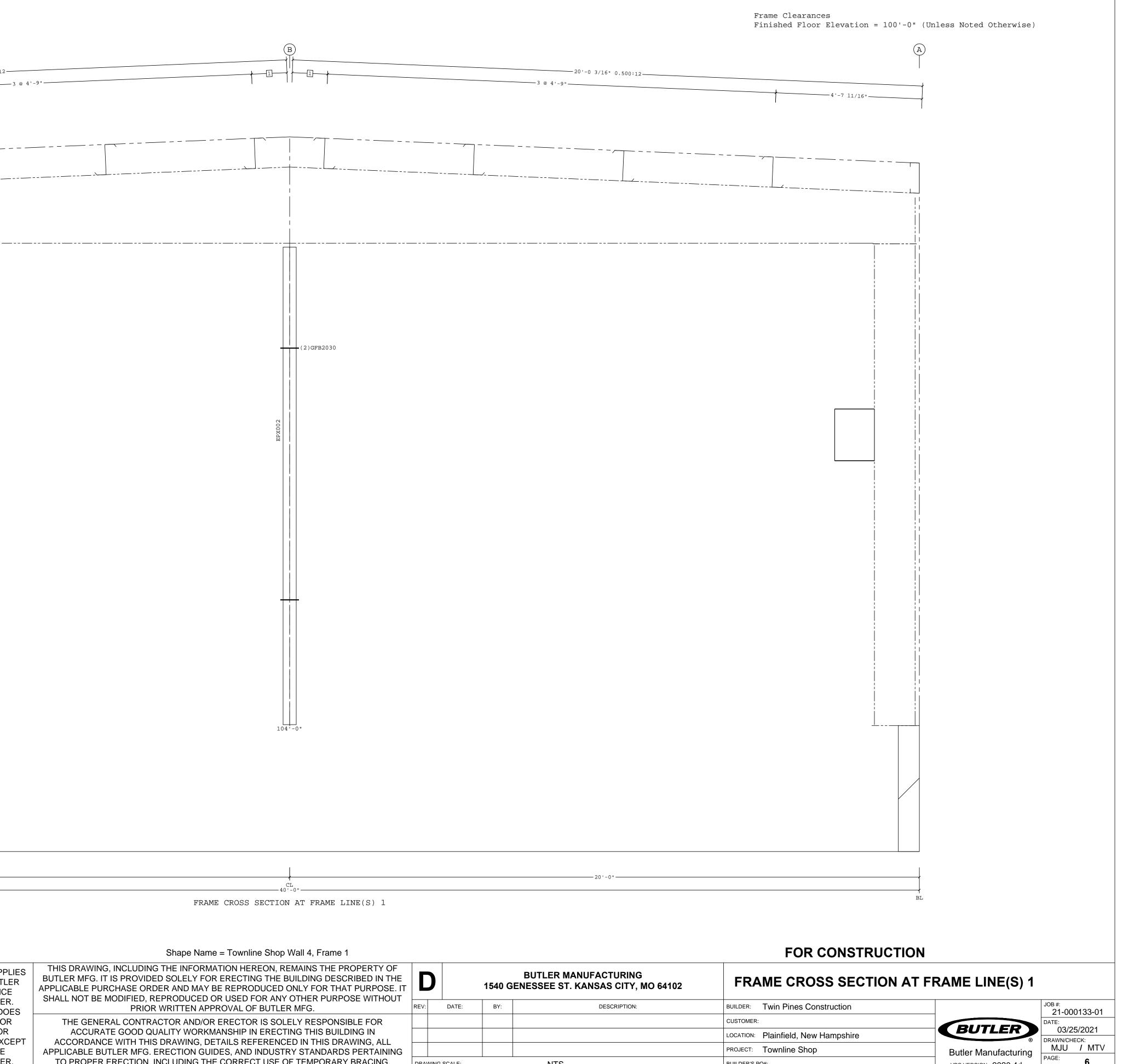
Γ	D			1540 G	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64				
	REV:		DATE:	BY:	DESCRIPTION:				
	DRA	WING	SCALE:	•	NTS				
	SAVE	DATE	: 4/1/2021		SAVE TIME: 09:54:32				

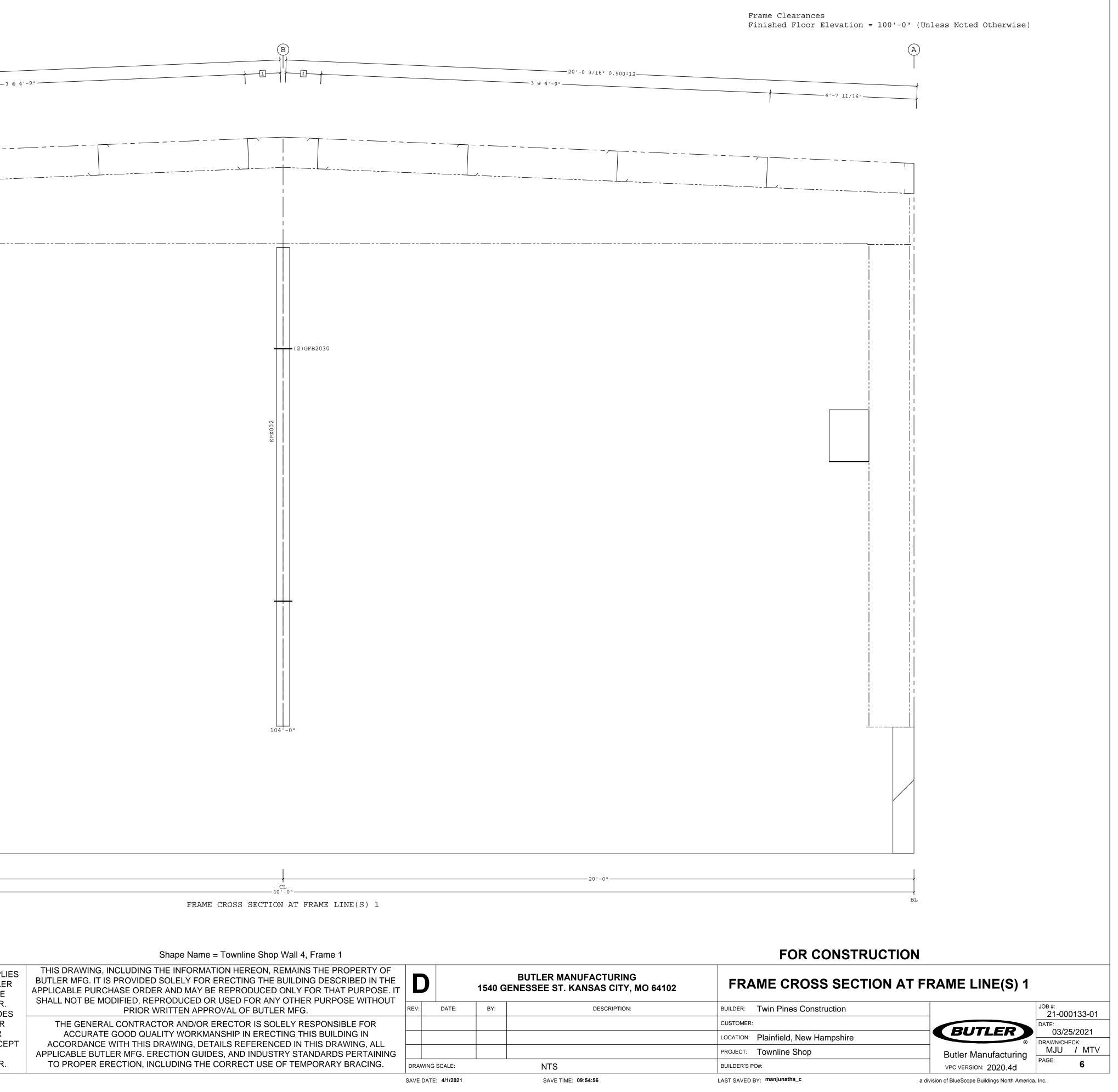
LAST SAVED BY: manjunatha_c

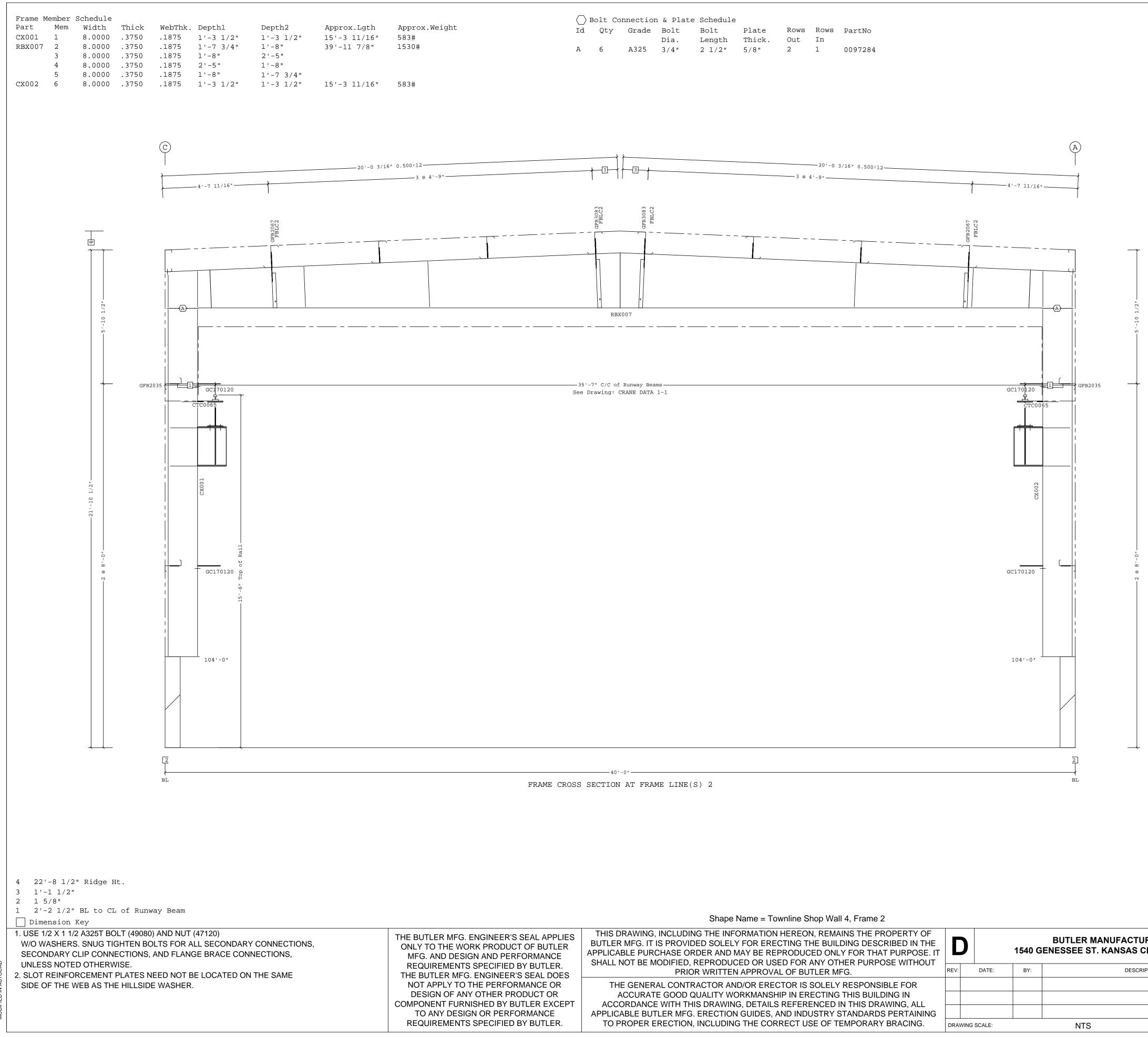
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Frame Member Schedule Part Mem Width EPX002 1 5.0000	Thick WebThk .1345 .1345	. Depth1 1'-1" (C)	Depth2 1'-1"	Approx.Lgth 15'-2 7/16"	Approx.Weight 171#	20'-0 3/16" 0.500:12
	21.101/2					
		BL				20 ' -0 "
 2 22'-8 1/2" Ridge 1 1 1'-1 1/2" Dimension Key 1. USE 1/2 X 1 1/2 A325T BC W/O WASHERS. SNUG TI SECONDARY CLIP CONN UNLESS NOTED OTHERV 2. SLOT REINFORCEMENT SIDE OF THE WEB AS TH 	DLT (49080) AND NUT GHTEN BOLTS FOR ECTIONS, AND FLAN VISE. PLATES NEED NOT	ALL SECONDAF IGE BRACE CO BE LOCATED O	NNECTIONS,	S,	ONLY TO THE WOR MFG. AND DESIG REQUIREMENTS THE BUTLER MFG. NOT APPLY TO T DESIGN OF ANY COMPONENT FURNI TO ANY DESIG	ENGINEER'S SEAL APP RK PRODUCT OF BUTI SN AND PERFORMANC SPECIFIED BY BUTLE ENGINEER'S SEAL DO HE PERFORMANCE O OTHER PRODUCT OF SHED BY BUTLER EXO N OR PERFORMANCE SPECIFIED BY BUTLE

FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\6-21-000133-01_FRAME CROSS SECTION AT FRAME LINE(S) 1.dwg







FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\7-21-000133-01_FRAME CROSS SECTION AT FRAME LINE(S) 2.dwg

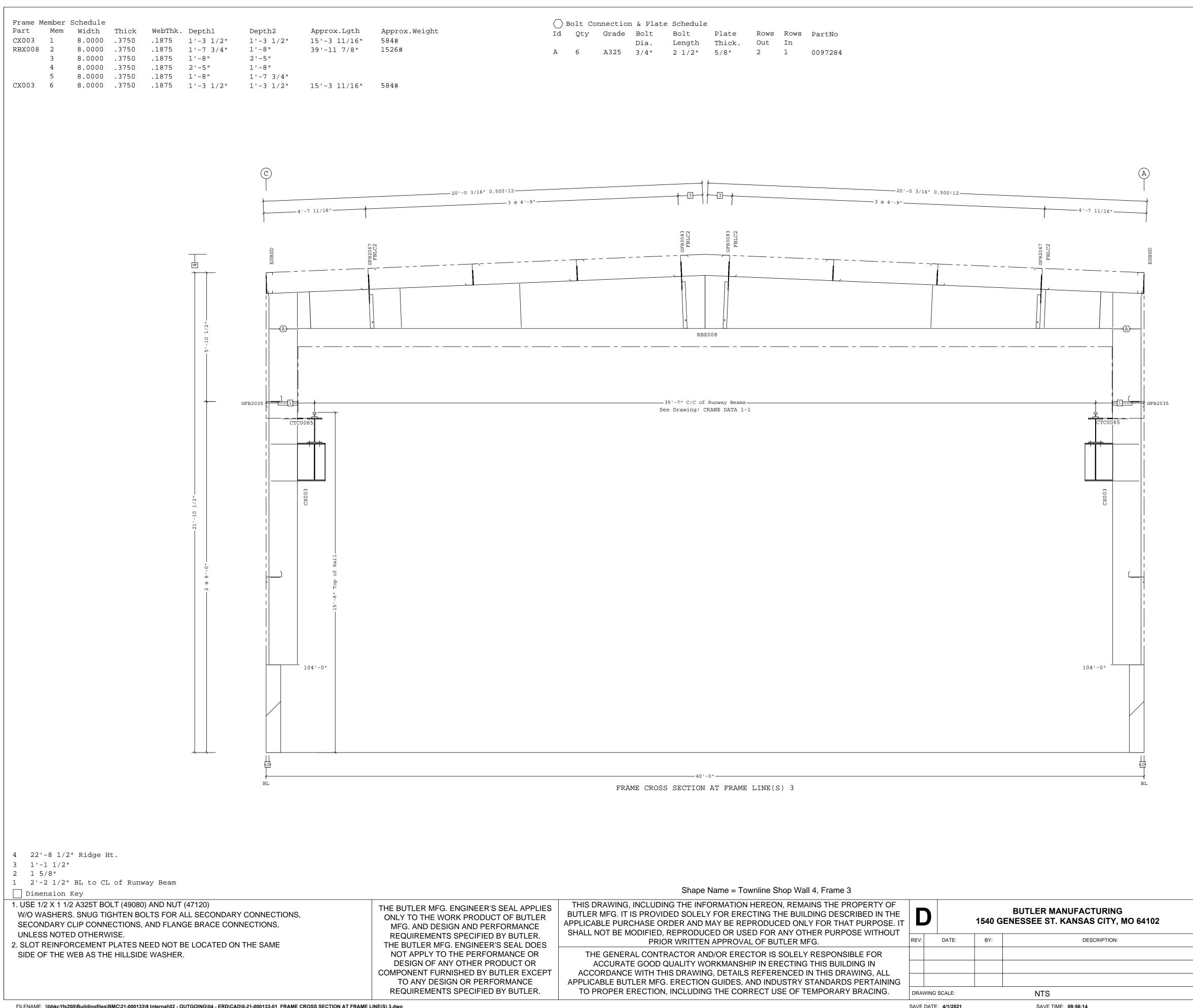
◯ E	solt Co	nnection	& Plate	Schedule				
Id	Qty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
			Dia.	Length	Thick.	Out	In	
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284

-	D			1540 G	BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64
	REV:		DATE:	BY:	DESCRIPTION:
	DRA	WING	SCALE:		NTS
	SAVE	DATE	: 4/1/2021		SAVE TIME: 09:55:36

Frame Clearances Horiz. Clearance between members 1(CX001) and 6(CX002): 37'-1 3/4" Vert. Clearance at member 1(CX001): 19'-3 11/16" Vert. Clearance at member 6(CX002): 19'-3 11/16" Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

Crane Clearances at Top of Rail Vert. Clearance at CRANE DATA 1-1(Left): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Left): 9 3/8" Vert. Clearance at CRANE DATA 1-1(Right): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Right): 9 3/8"

64102	FRAME CROSS SECTION AT F	RAME LINE(S) 2	
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:	BUTLER	DATE:
	LOCATION: Plainfield, New Hampshire	BUILER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	MJU / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 7
	LAST SAVED BY: manjunatha_c a c	livision of BlueScope Buildings North America,	, Inc.



FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\8-21-000133-01_FRAME CROSS SECTION AT FRAME LINE(S) 3.dwg

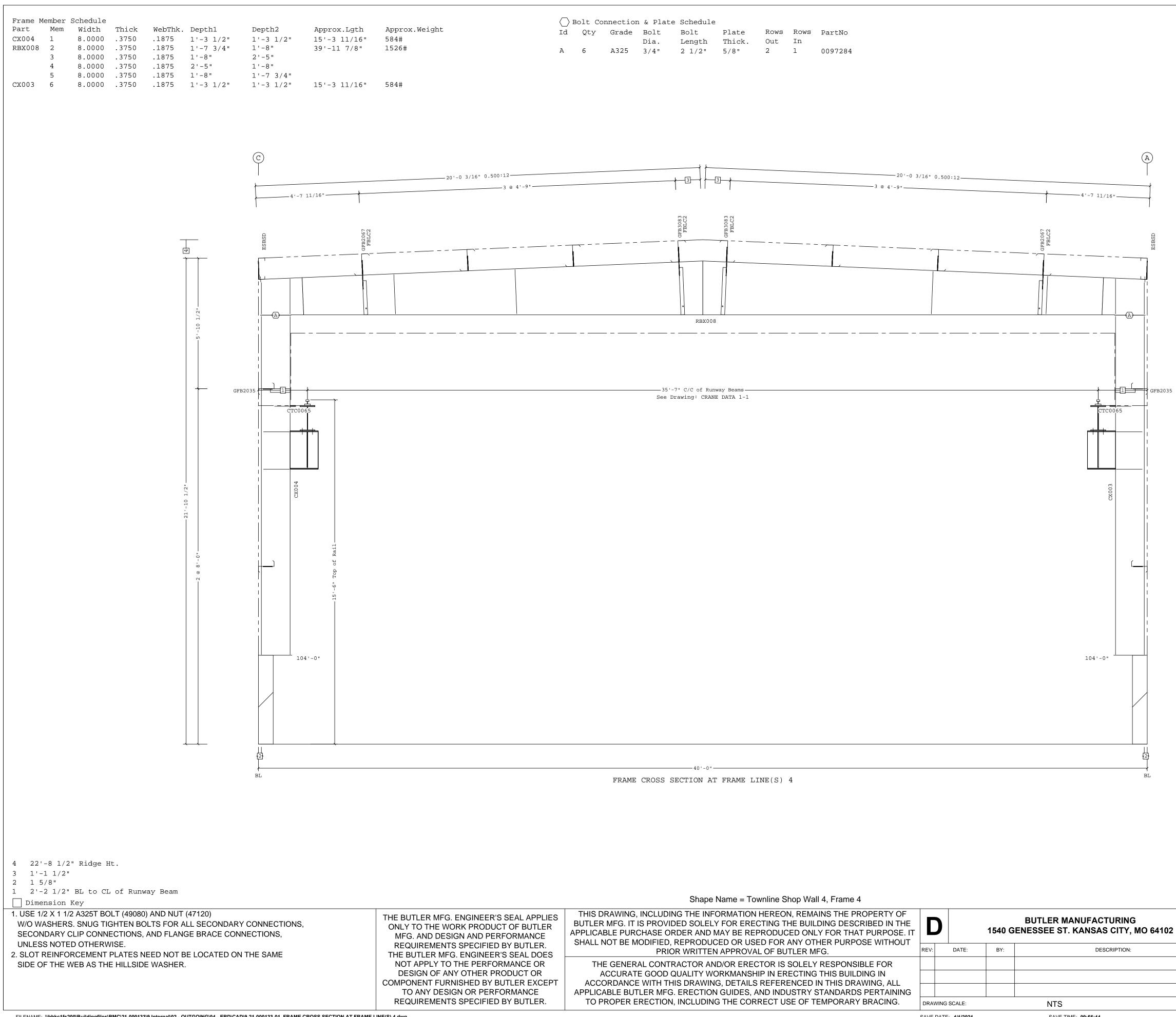
◯ E	Bolt Co	nnectior	n & Plate	Schedule				
Id	Qty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
			Dia.	Length	Thick.	Out	In	
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284

Г	D			1540 G	BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64
	REV:		DATE:	BY:	DESCRIPTION:
	DRA\	WING	SCALE:		NTS
	SAVE	DATE	: 4/1/2021		SAVE TIME: 09:56:14

Frame Clearances Horiz. Clearance between members 1(CX003) and 6(CX003): 37'-1 3/4" Vert. Clearance at member 1(CX003): 19'-3 11/16" Vert. Clearance at member 6(CX003): 19'-3 11/16" Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

Crane Clearances at Top of Rail Vert. Clearance at CRANE DATA 1-1(Left): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Left): 9 3/8" Vert. Clearance at CRANE DATA 1-1(Right): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Right): 9 3/8"

64102 FRAME CROSS SECTION AT FRAME LINE(S) 3	
BUILDER: Twin Pines Construction JOB #: 21-0001	33-01
CUSTOMER: DATE: 03/25/	2024
LOCATION: Plainfield, New Hampshire	
PROJECT: Townline Shop Butler Manufacturing	MTV
BUILDER'S PO#: PAGE: VPC VERSION: 2020.4d	8
LAST SAVED BY: manjunatha_c a division of BlueScope Buildings North America, Inc.	



FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\9-21-000133-01_FRAME CROSS SECTION AT FRAME LINE(S) 4.dwg

∑ E	Bolt Cc	nnection	a & Plate	Schedule				
Id	Qty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
			Dia.	Length	Thick.	Out	In	
A	б	A325	3/4"	2 1/2"	5/8"	2	1	0097284

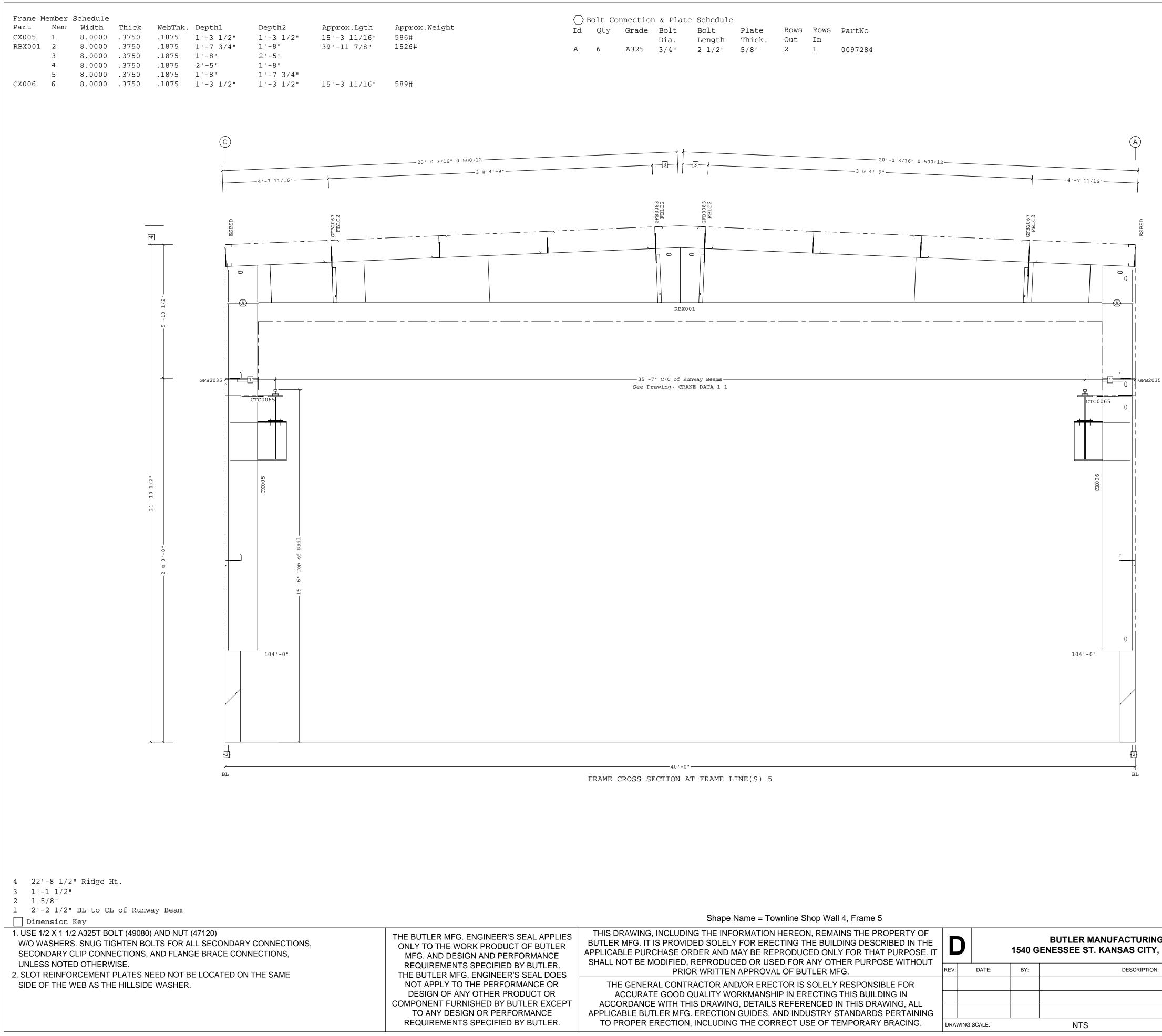
					BUTLER MANUFACTURING
Т				1540 G	ENESSEE ST. KANSAS CITY, MO 64
	REV:		DATE:	BY:	DESCRIPTION:
	DRA	WING	SCALE:		NTS
	SAVE	DATE	: 4/1/2021		SAVE TIME: 09:56:44

Frame Clearances Horiz. Clearance between members 1(CX004) and 6(CX003): 37'-1 3/4" Vert. Clearance at member 1(CX004): 19'-3 11/16" Vert. Clearance at member 6(CX003): 19'-3 11/16" Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

Crane Clearances at Top of Rail Vert. Clearance at CRANE DATA 1-1(Left): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Left): 9 3/8" Vert. Clearance at CRANE DATA 1-1(Right): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Right): 9 3/8"



64102	FRAME CROSS SECTION AT F	RAME LINE(S) 4	
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:	BUTLER	DATE:
	LOCATION: Plainfield, New Hampshire	BUILER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	MJU / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 9
	LAST SAVED BY: manjunatha_c a div	vision of BlueScope Buildings North America,	, Inc.



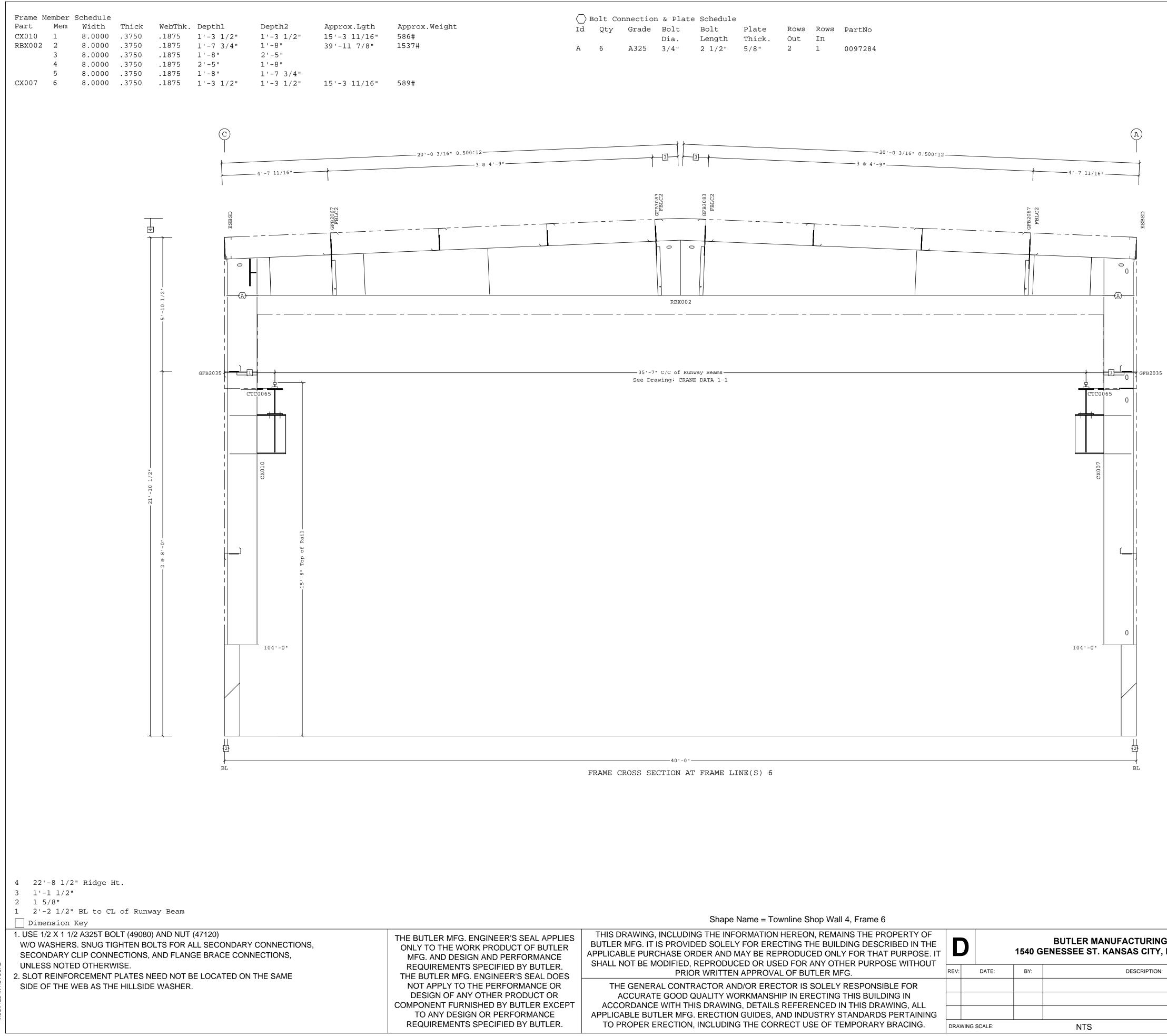
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Г				1540 G	BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64
	REV:		DATE:	BY:	DESCRIPTION:
	DRA	WING	SCALE:		NTS
	SAVE	DATE	: 4/1/2021		SAVE TIME: 09:57:14

Frame Clearances Horiz. Clearance between members 1(CX005) and 6(CX006): 37'-1 3/4" Vert. Clearance at member 1(CX005): 19'-3 11/16" Vert. Clearance at member 6(CX006): 19'-3 11/16" Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

Crane Clearances at Top of Rail Vert. Clearance at CRANE DATA 1-1(Left): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Left): 9 3/8" Vert. Clearance at CRANE DATA 1-1(Right): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Right): 9 3/8"

64102	FRAME CROSS SECTION AT F	RAME LINE(S) 5		
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01	
	CUSTOMER:	BUTLER	DATE:	
	LOCATION: Plainfield, New Hampshire	BUILER	03/25/2021	
	PROJECT: Townline Shop	Butler Manufacturing	MJU / MTV	
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 10	
	LAST SAVED BY: manjunatha_c a d	division of BlueScope Buildings North America	, Inc.	



E	olt Co	nnection	& Plate	Schedule				
Id	Qty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
			Dia.	Length	Thick.	Out	In	
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284

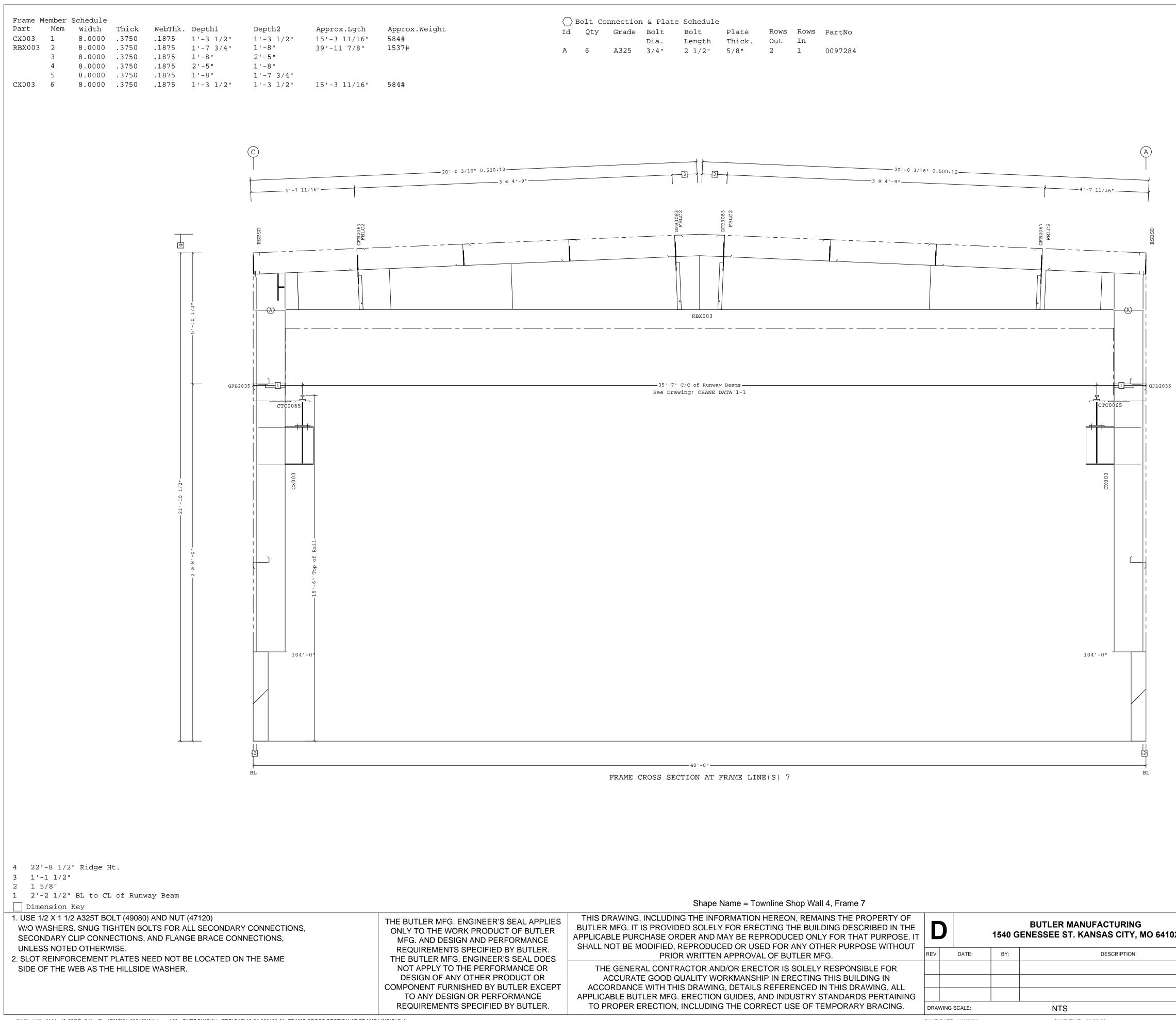
FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\11-21-000133-01_FRAME CROSS SECTION AT FRAME LINE(S) 6.dwg

-				1540 G	BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64
	REV:		DATE:	BY:	DESCRIPTION:
	DRA	WING	SCALE:		NTS
	SAVE	DATE	: 4/1/2021		SAVE TIME: 09:57:54

Frame Clearances Horiz. Clearance between members 1(CX003) and 6(CX007): 37'-1 3/4" Vert. Clearance at member 1(CX003): 19'-3 11/16" Vert. Clearance at member 6(CX007): 19'-3 11/16" Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

Crane Clearances at Top of Rail Vert. Clearance at CRANE DATA 1-1(Left): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Left): 9 3/8" Vert. Clearance at CRANE DATA 1-1(Right): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Right): 9 3/8"

64102	FRAME CROSS SECTION AT F		
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:	DATE:	
	LOCATION: Plainfield, New Hampshire	BUTLER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	MJU / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 11
	LAST SAVED BY: manjunatha_c a d	ivision of BlueScope Buildings North America	, Inc.



FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\12-21-000133-01_FRAME CROSS SECTION AT FRAME LINE(S) 7.dwg

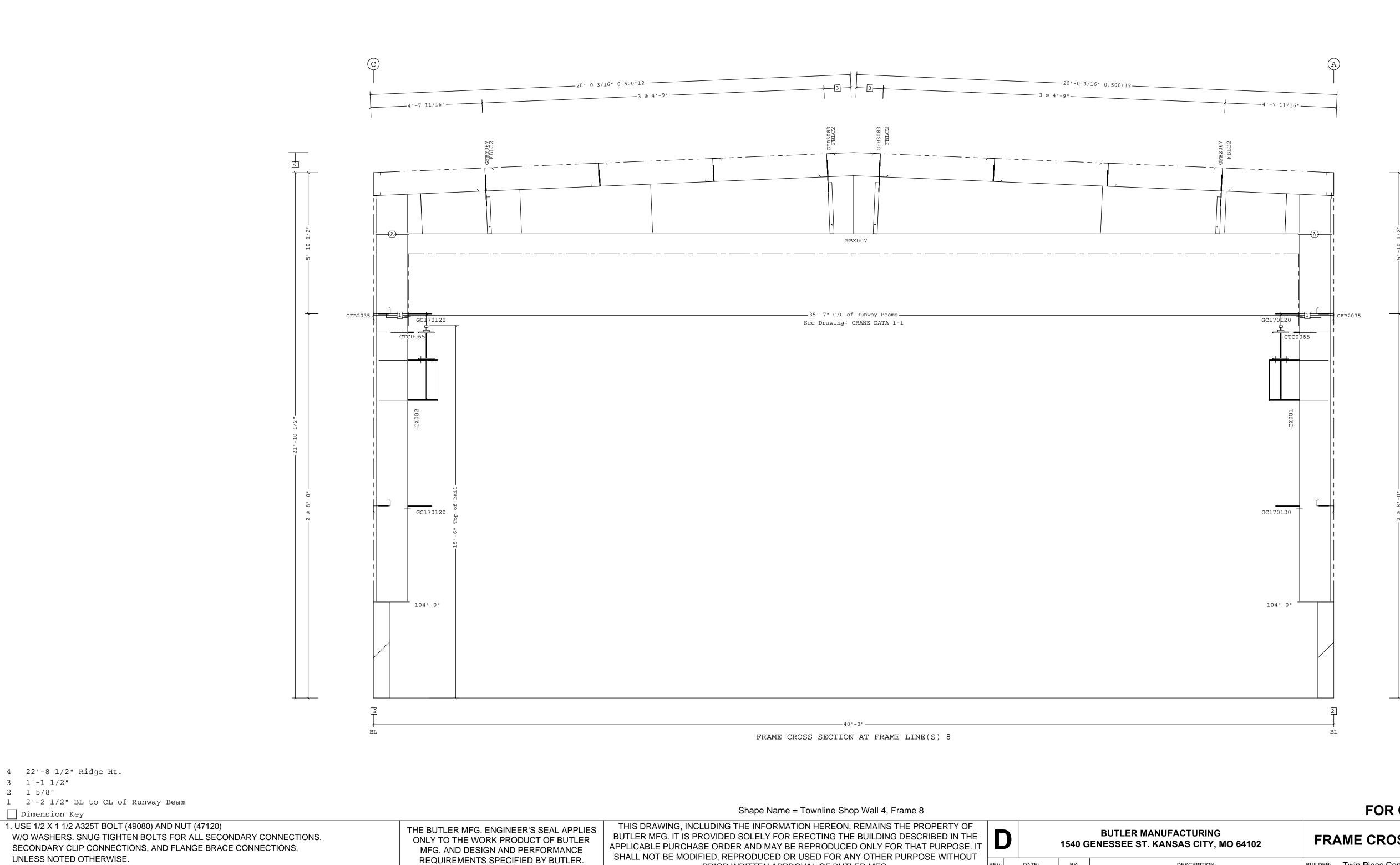
Г				1540 G	BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64
	REV:		DATE:	BY:	DESCRIPTION:
	DRA	WING	SCALE:		NTS
	SAVE	DATE	: 4/1/2021		SAVE TIME: 09:58:22

Frame Clearances Horiz. Clearance between members 1(CX003) and 6(CX003): 37'-1 3/4" Vert. Clearance at member 1(CX003): 19'-3 11/16" Vert. Clearance at member 6(CX003): 19'-3 11/16" Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

Crane Clearances at Top of Rail Vert. Clearance at CRANE DATA 1-1(Left): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Left): 9 3/8" Vert. Clearance at CRANE DATA 1-1(Right): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Right): 9 3/8"

64102	FRAME CROSS SECTION AT F	RAME LINE(S) 7	
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:		DATE:
	LOCATION: Plainfield, New Hampshire	BUTLER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	MJU / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 12
	LAST SAVED BY: manjunatha_c a div	vision of BlueScope Buildings North America	Inc.

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX002	1	8.0000	.3750	.1875	1'-3 1/2"	1'-3 1/2"	15'-3 11/16"	583#
RBX007	2	8.0000	.3750	.1875	1'-7 3/4"	1'-8"	39'-11 7/8"	1530#
	3	8.0000	.3750	.1875	1'-8"	2'-5"		
	4	8.0000	.3750	.1875	2'-5"	1'-8"		
	5	8.0000	.3750	.1875	1'-8"	1'-7 3/4"		
CX001	6	8.0000	.3750	.1875	1'-3 1/2"	1'-3 1/2"	15'-3 11/16"	583#



UNLESS NOTED OTHERWISE. 2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

4 22'-8 1/2" Ridge Ht.

3 1'-1 1/2" 2 1 5/8"

🗌 Dimension Key

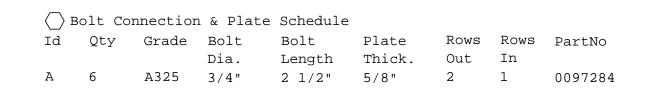
REQUIREMENTS SPECIFIED BY BUTLER. FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\13-21-000133-01_FRAME CROSS SECTION AT FRAME LINE(S) 8.dwg

THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR

DESIGN OF ANY OTHER PRODUCT OR

COMPONENT FURNISHED BY BUTLER EXCEPT

TO ANY DESIGN OR PERFORMANCE



F HE E. IT JT	D			BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO					
51	REV:		DATE:	BY:	DESCRIPTION:				
١G									
	DRA	WING	SCALE:		NTS				
	SAVE	DATE	: 4/1/2021		SAVE TIME: 09:58:50				

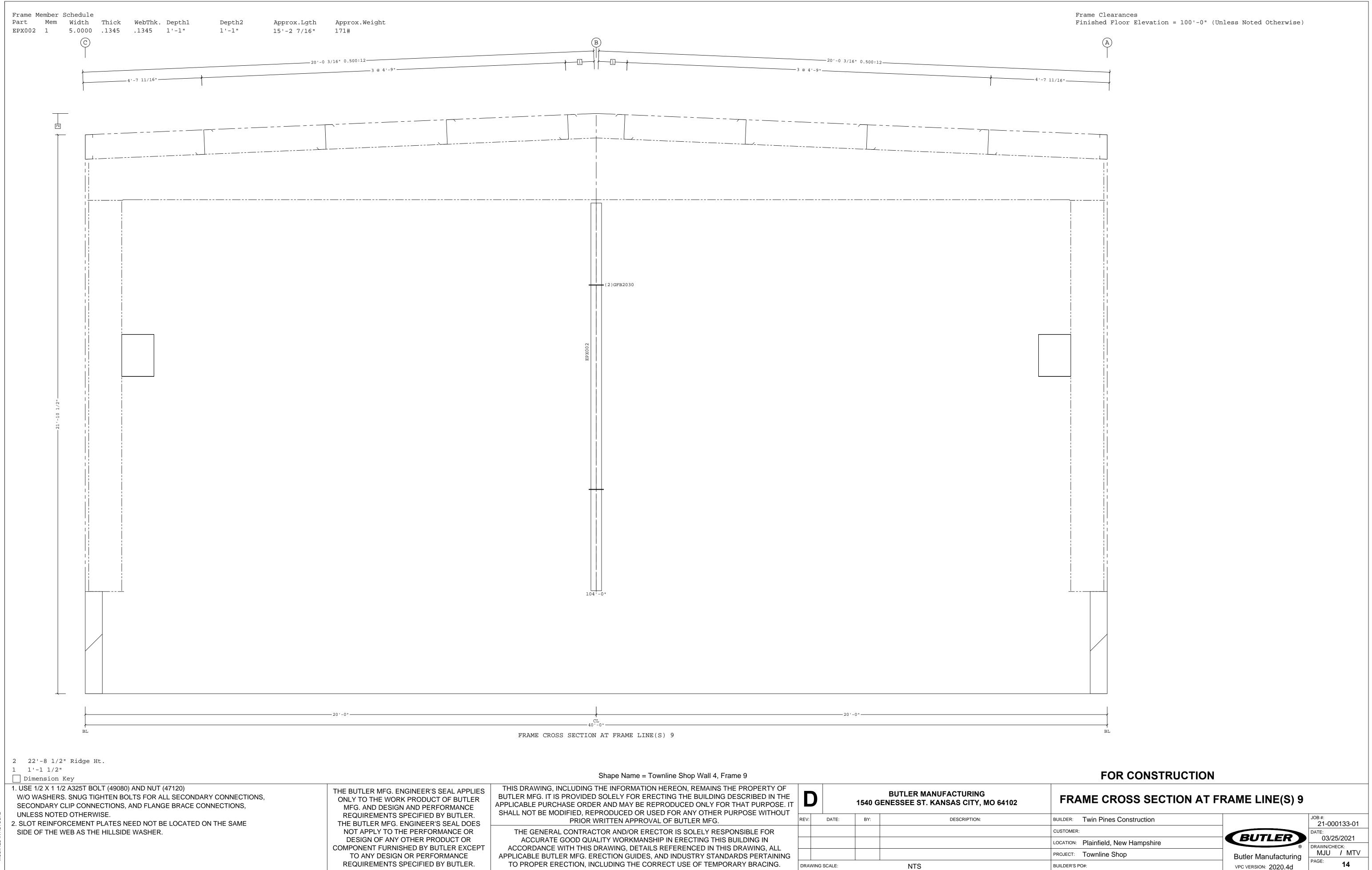
SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MFG.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAININ TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

Frame Clearances Horiz. Clearance between members 1(CX002) and 6(CX001): 37'-1 3/4" Vert. Clearance at member 1(CX002): 19'-3 11/16" Vert. Clearance at member 6(CX001): 19'-3 11/16" Finished Floor Elevation = 100'-0" (Unless Noted Otherwise) Crane Clearances at Top of Rail Vert. Clearance at CRANE DATA 1-1(Left): 3'-9 15/16" Horz. Clearance at CRANE DATA 1-1(Left): 9 3/8" Vert. Clearance at CRANE DATA 1-1(Right): 3'-9 15/16"

Horz. Clearance at CRANE DATA 1-1(Right): 9 3/8"

FOR CONSTRUCTION									
FRAME CROSS SECTION	AT FRAME LINE(S) 8								
BUILDER: Twin Pines Construction		JOB #: 21-000133-01							
CUSTOMER:	DUTI ER	DATE:							
LOCATION: Plainfield, New Hampshire	BUILER	03/25/2021							
PROJECT: Townline Shop	Butler Manufacturing	MJU / MTV							
BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 13							
LAST SAVED BY: manjunatha_c	a division of BlueScope Buildings North America	, Inc.							
	FRAME CROSS SECTION BUILDER: Twin Pines Construction CUSTOMER: LOCATION: PROJECT: Townline Shop BUILDER'S PO#: PUILDER'S PO#:	FRAME CROSS SECTION AT FRAME LINE(S) 8 BUILDER: Twin Pines Construction CUSTOMER: CUSTOMER: LOCATION: Plainfield, New Hampshire PROJECT: Townline Shop BUILDER'S PO#: BUILDER'S PO#:							



FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\14-21-000133-01_FRAME CROSS SECTION AT FRAME LINE(S) 9.dwg

F HE E. IT JT	D			1540 G	BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64
51	REV:		DATE:	BY:	DESCRIPTION:
١G					
	DRA	WING	SCALE:		NTS
	SAVE	DATE	: 4/1/2021		SAVE TIME: 09:59:16

Shape Name =	Townline	Shop	Wall 4.	Frame 9	9

LAST SAVED BY: manjunatha_c

a division of BlueScope Buildings North America, Inc.

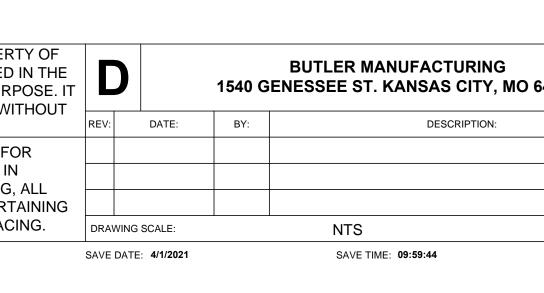
CX008 RBX005	Mem W 1 8 2-3 6	idth .0000 .	.3750 .3125	.1345	Depth1 1'-4" 2'-0" 1'-4"	Depth2 1'-4" 2'-0" 1'-4"	Approx.Lgth 16'-7 9/16" 21'-0" 16'-7 9/16"	Approx 526# 523# 526#	k.Wei	ght		(I B
									5)			
] HFB3060	(B) 0			
												RBX
										<u> </u>		
							- 16'-7 -7 -7 -7 -16"				CX008	
									-		- 104'-0"	
									- <u>1</u> -,			
1. USE 1/2 W/O WAS SECOND UNLESS 2. SLOT RE	Sion Key X 1 1/2 A SHERS. S ARY CLIF NOTED C EINFORCE	325T BOL ⁻ NUG TIGH CONNEC DTHERWIS EMENT PL	HTEN BOL CTIONS, A SE. LATES NE	TS FOR AI	L SECONDARY (E BRACE CONNE E LOCATED ON T	ECTIONS,		ONLY MFG REQ THE B NOT DES COMPC	TO T G. ANE UIRE UTLE APP SIGN NEN ONEN	HE WORK F D DESIGN A MENTS SPE R MFG. EN LY TO THE OF ANY OT F FURNISHE DESIGN O	INEER'S SEAL APPL PRODUCT OF BUTLE ND PERFORMANCE CIFIED BY BUTLER GINEER'S SEAL DO PERFORMANCE OF HER PRODUCT OR ED BY BUTLER EXC R PERFORMANCE ECIFIED BY BUTLER	ER E R. ES R EPT

FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\15-21-000133-01_PORTAL FRAME ELEVATION ALONG C.dwg

	[d	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo	
2 A325 3/4" 2 1/2" 0097284				3/4"	2 1/2"	3/8"				
	3	2	A325	3/4"	2 1/2"	-	-	-	0097284	
	_									

104'-0"

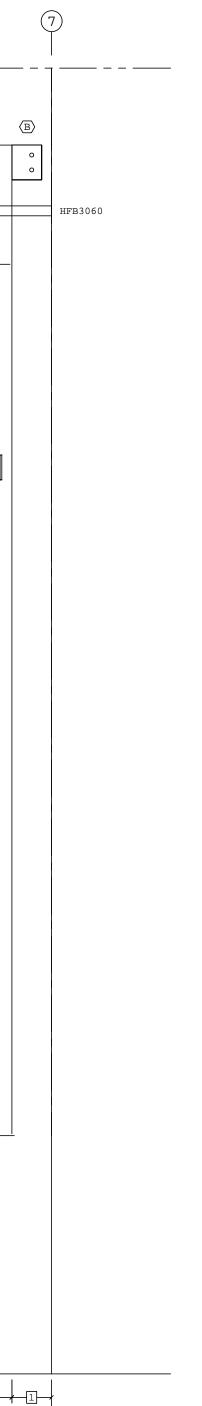
PORTAL FRAME ELEVATION ALONG C



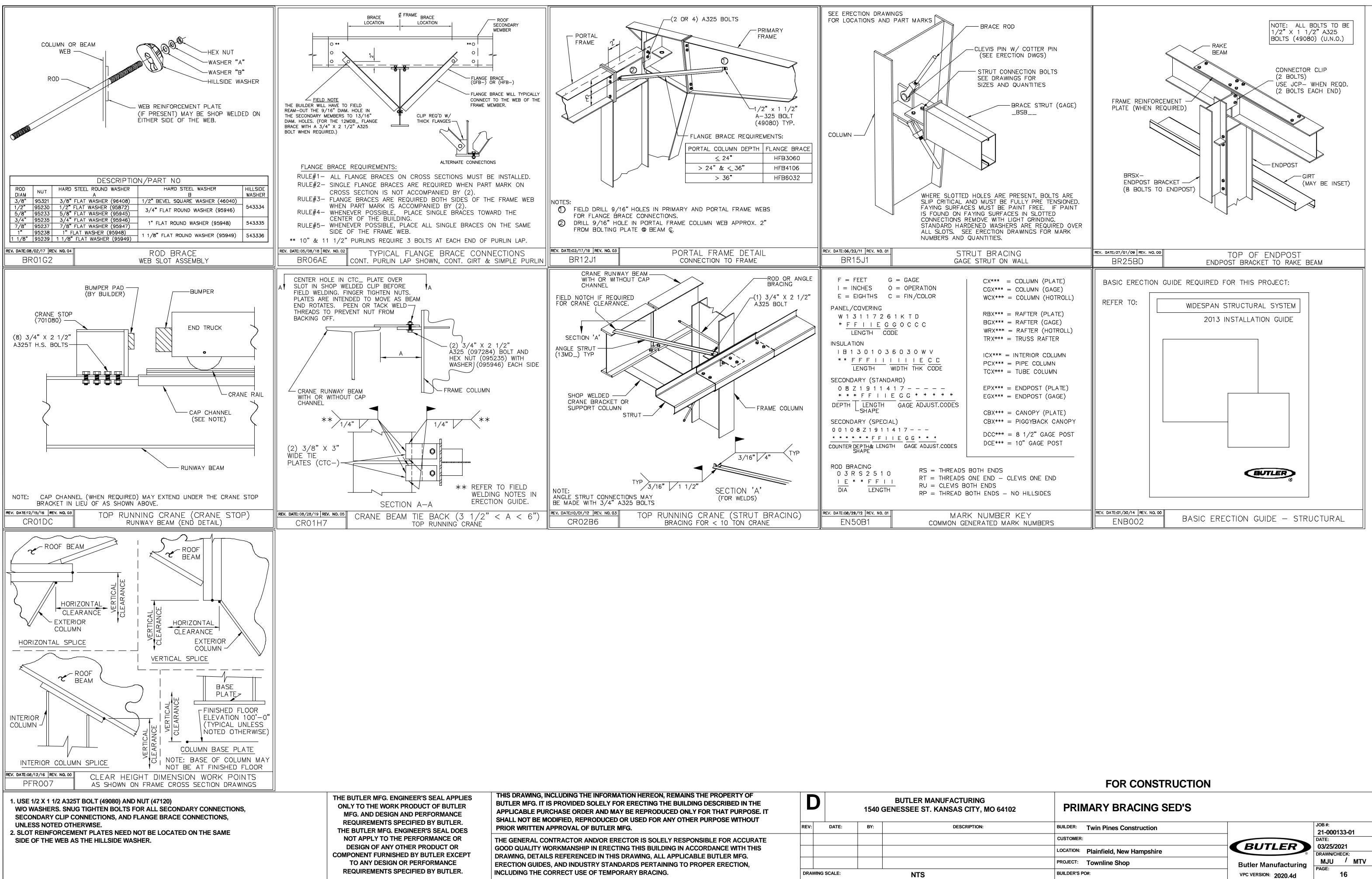
Shape Name = Townline Shop Wall 4, Frame 5

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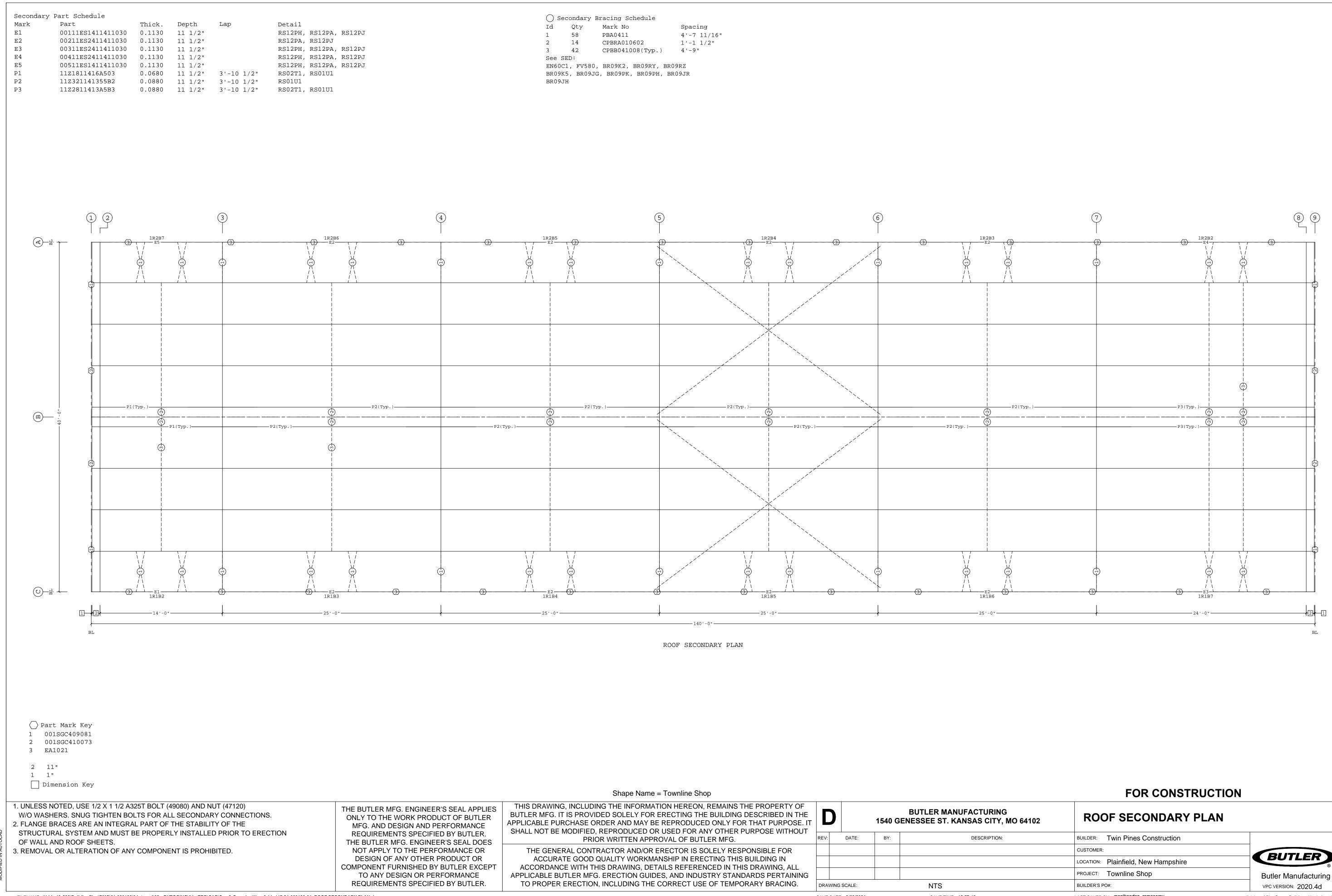
64102	PORTAL FRAME ELEVATION	ALONG C			
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01		
	CUSTOMER:	BUTLER	DATE:		
	LOCATION: Plainfield, New Hampshire	BUILER	03/25/2021 DRAWN/CHECK:		
	PROJECT: Townline Shop	Butler Manufacturing	MJU / MTV		
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 15		
	LAST SAVED BY: manjunatha_c	a division of BlueScope Buildings North America	Inc.		



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PRIOR WRITTEN APPROVAL OF BUTLER MFG.	REV:	DATE:	BY:	DESCRIPTION:	
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,					
NCLUDING THE CORRECT USE OF TEMPORARY BRACING.	DRAWING SCALE: NTS		NTS		
	•	3/2/2021 SI	EDSheet	2:21:29	

3/2/2021 SEDSheet

PRIMARY BRACING SED'S	
BUILDER: Twin Pines Construction	JOB #: 21-000133-01
CUSTOMER:	DATE:
LOCATION: Plainfield, New Hampshire	BUTLER 03/25/2021 ® DRAWN/CHECK:
PROJECT: Townline Shop	Butler Manufacturing MJU / MTV
BUILDER'S PO#:	VPC VERSION: 2020.4d 16
	a division of BlueScope Buildings North America, Inc.

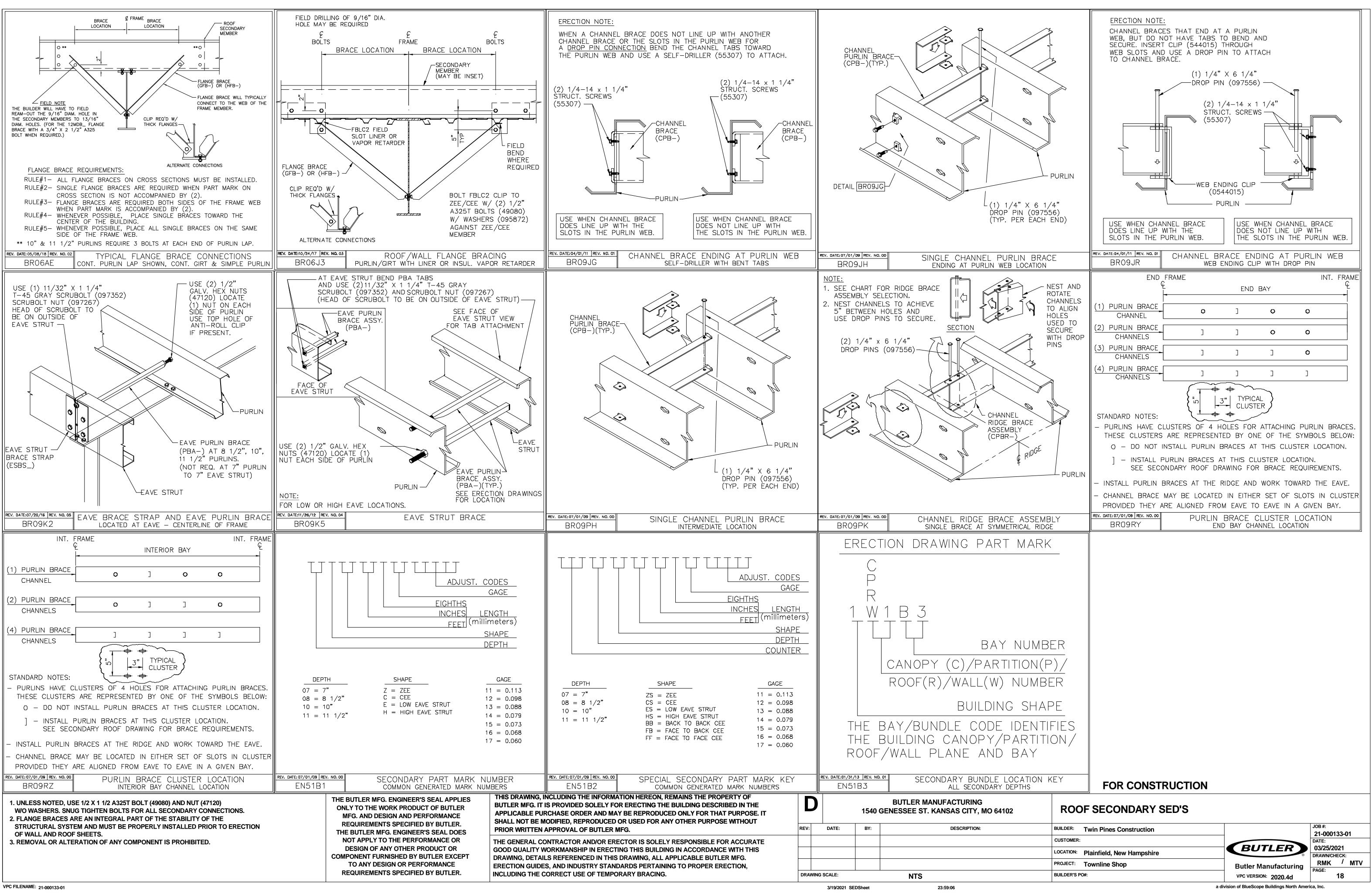


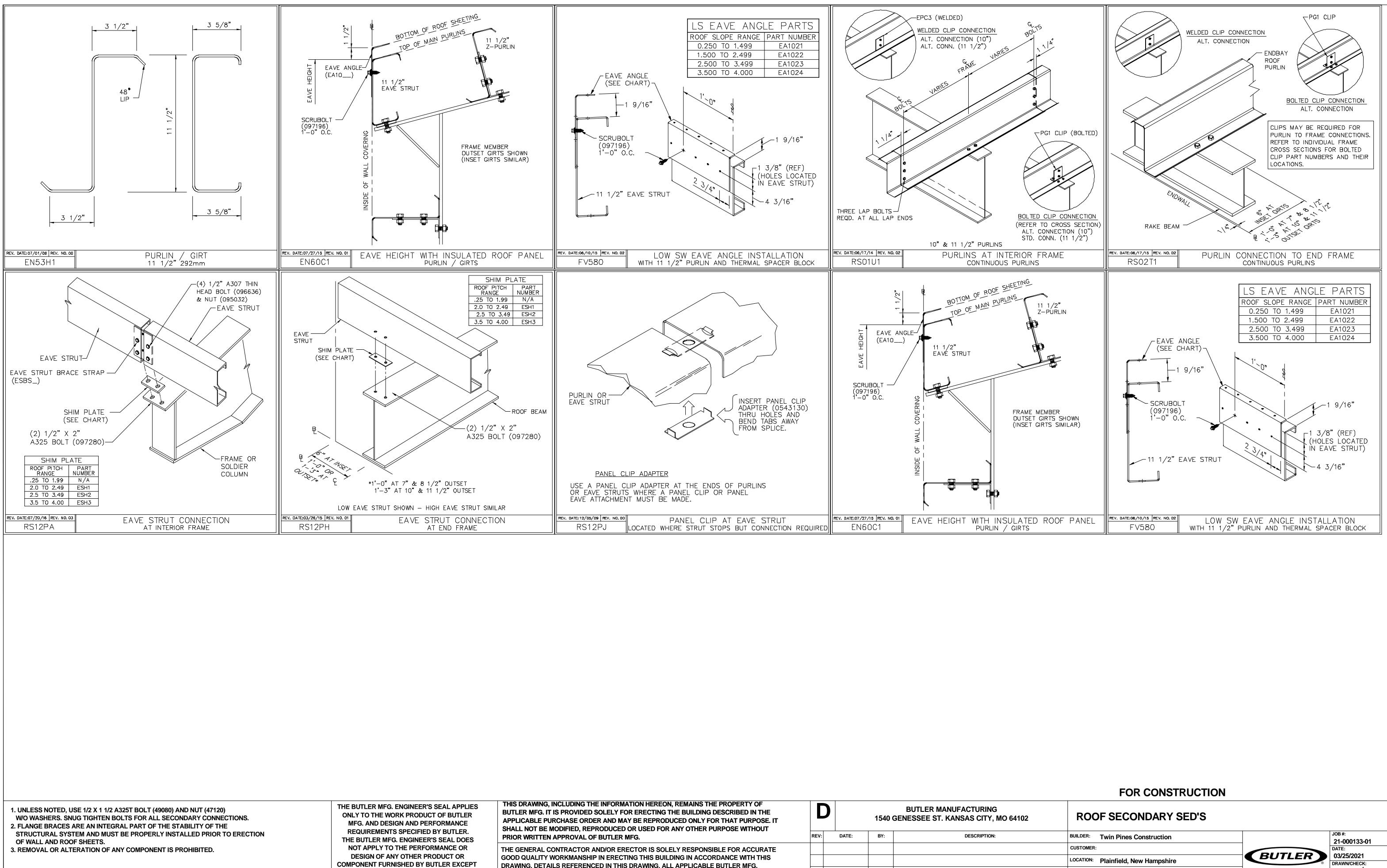
FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\Sec & Covering\New folder\17-21-000133-01_ROOF SECONDARY PLAN.dwg

O Seco	ondary B	racing Schedule	
Id	Qty	Mark No	Spacing
1	58	PBA0411	4'-7 11/16
2	14	CPBRA010602	1'-1 1/2"
3	42	CPBB041008(Typ.)	4 ' – 9 "
See SEI	D:		
EN60C1	, FV580,	BR09K2, BR09RY, BR09	RZ
BR09K5	, BR09JG	, BR09PK, BR09PH, BR0	9JR
BR09JH			

			BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY,				
	REV:		DATE:	BY:	DESCRIPTION:		
	DRAWING SCALE:				NTS		
SAVE DATE: 3/22/2021			: 3/22/2021		SAVE TIME: 15:57:40		

64102	ROOF SECONDARY PLAN		
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:		DATE:
	LOCATION: Plainfield, New Hampshire	BUTLER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 17
	LAST SAVED BY: manikandan_ramasamy a div	ision of BlueScope Buildings North America,	Inc.

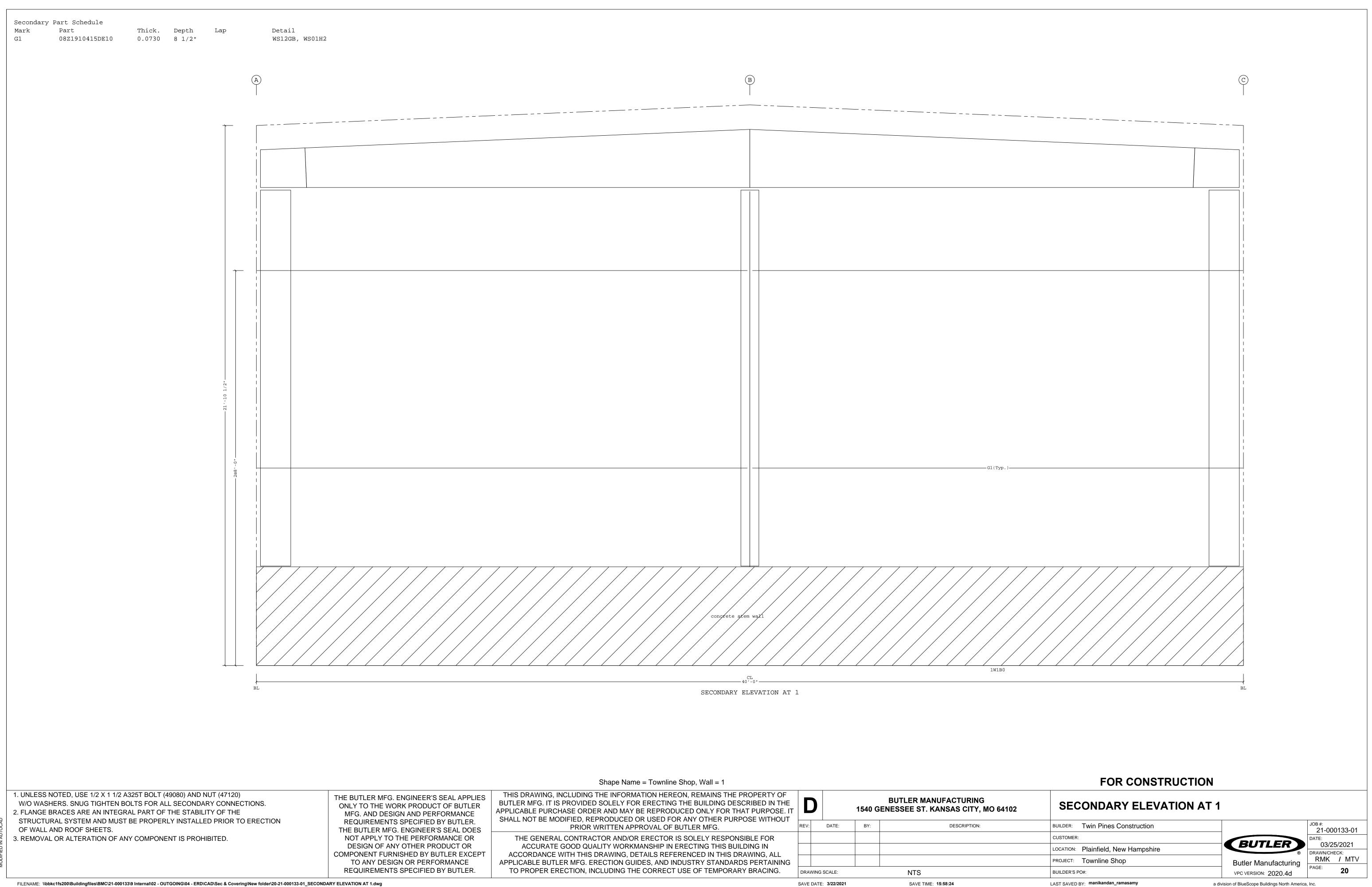




BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT	D		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		
PRIOR WRITTEN APPROVAL OF BUTLER MFG.	REV:	DATE:	BY:	DESCRIPTION:	
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,					
INCLUDING THE CORRECT USE OF TEMPORARY BRACING.	DRAWING SCALE: NTS			NTS	
		3/19/2021 S	SEDSheet	23:59:08	

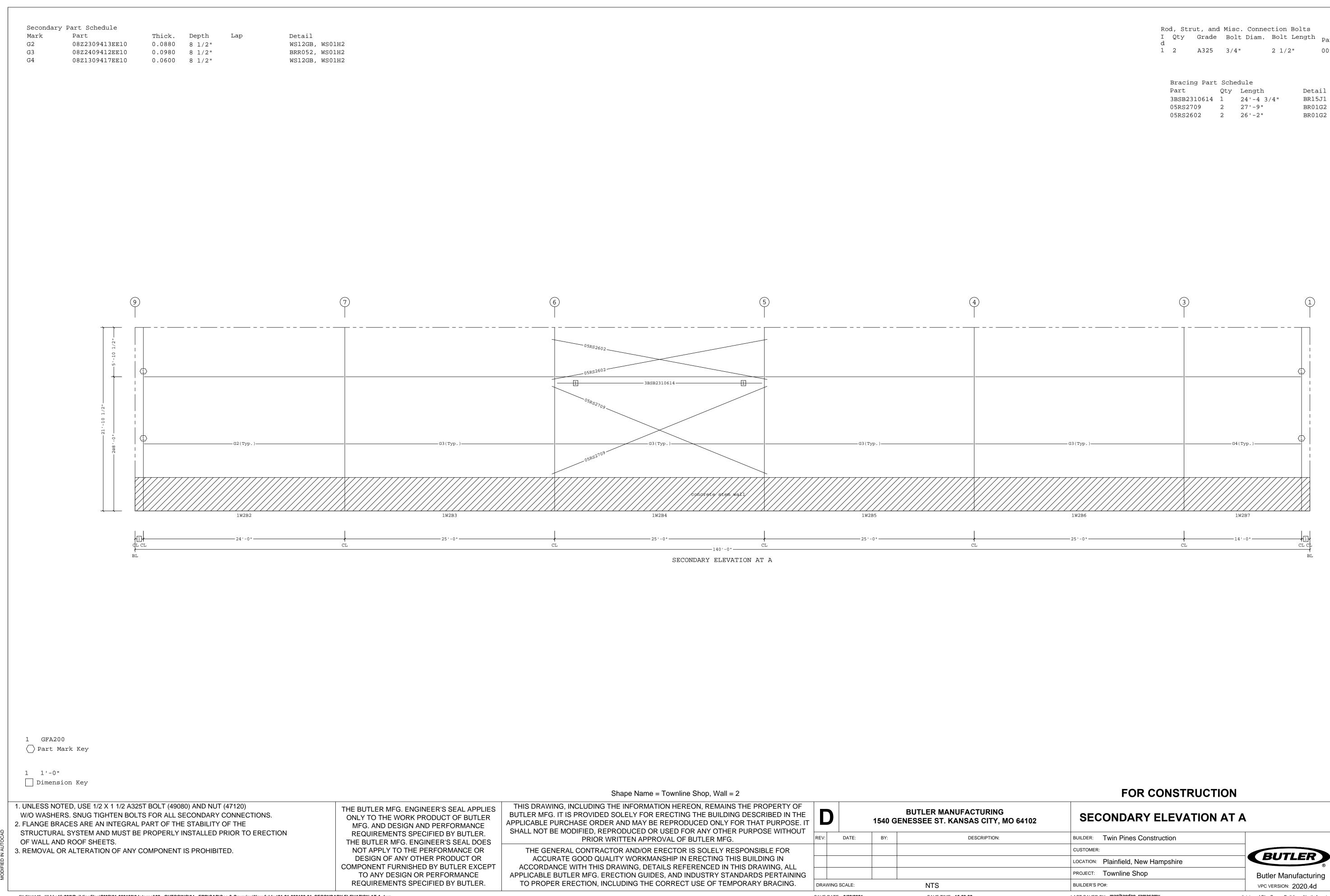
TO ANY DESIGN OR PERFORMANCE **REQUIREMENTS SPECIFIED BY BUTLER.**

ROOF SECONDARY SED'S	
BUILDER: Twin Pines Construction	JOB #: 21-000133-01
CUSTOMER:	DATE:
LOCATION: Plainfield, New Hampshire	BUTLER 03/25/2021 ® DRAWN/CHECK:
PROJECT: Townline Shop	Butler Manufacturing RMK / MTV
BUILDER'S PO#:	VPC VERSION: 2020.4d 19
	a division of BlueScope Buildings North America, Inc.



FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\Sec & Covering\New folder\20-21-000133-01_SECONDARY ELEVATION AT 1.dwg

	D			1540 C	BUTLER MANUFACTURING 540 GENESSEE ST. KANSAS CITY, MO 64			
I				1540 G				
	REV:		DATE:	BY:	DESCRIPTION:			
	DRA	WING	SCALE:		NTS			
	SAVE	DATE	: 3/22/2021		SAVE TIME: 15:58:24			

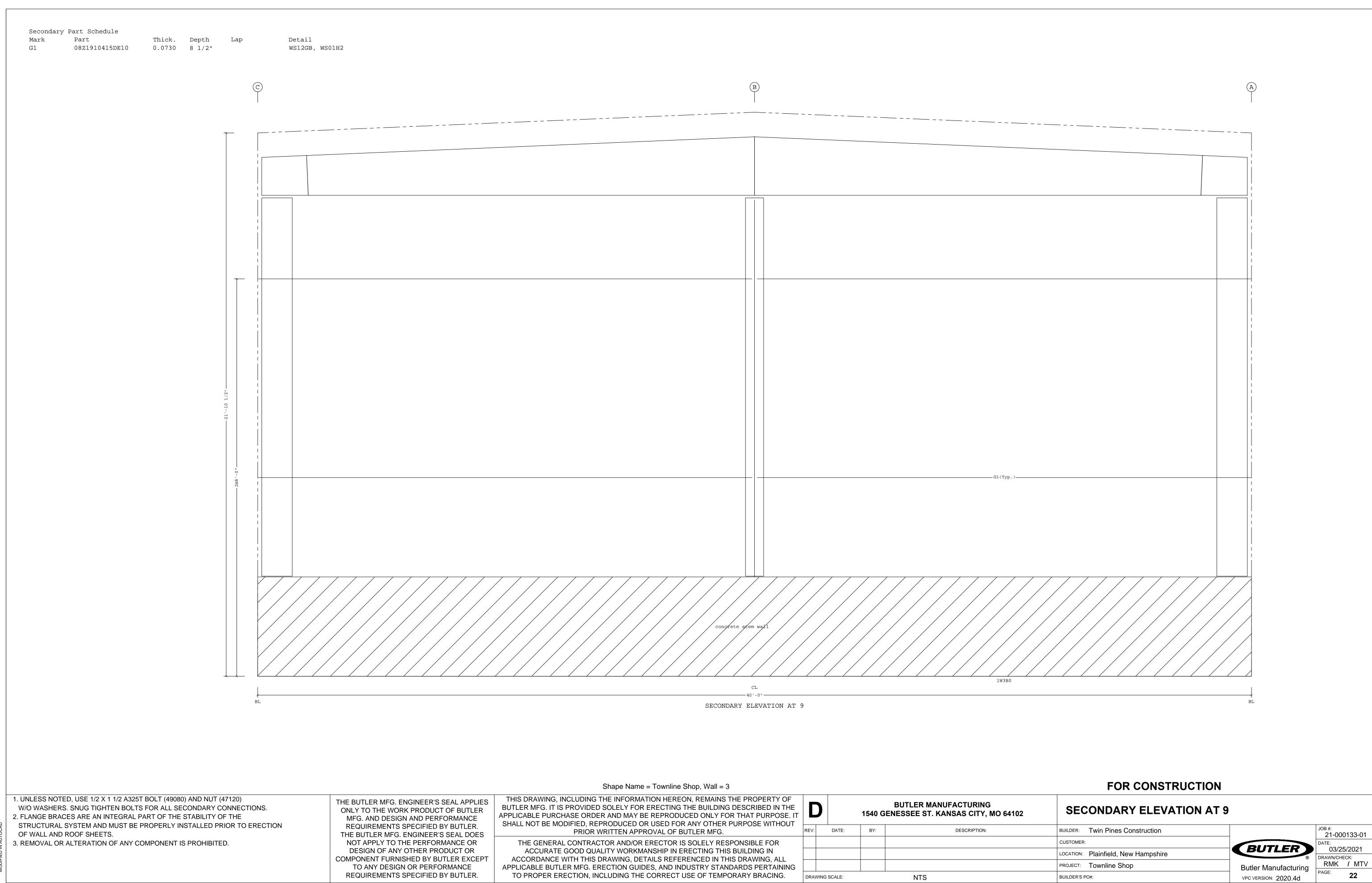


FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\Sec & Covering\New folder\21-21-000133-01_SECONDARY ELEVATION AT A.dwg

Г	D			BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64	
	REV:		DATE:	BY:	DESCRIPTION:
	DRA	WING	SCALE:		NTS
SAVE DATE: 3/22/2021			3/22/2021		SAVE TIME: 15:59:32

Rc	od, Stru	ut, and	l Misc	. Conne	ction Bo	olts	
I d	Qty	Grade	Bol	t Diam.	Bolt Le	ength	PartNo
1	2	A325	3/4	11	2 1/2"		0097284
	Deege	e: Deset	Gaba	J.,] _			
	Bracin	g Part	Schee	aure			
	Part		Qty	Length		Deta	il
	3BSB23	10614	1	24'-4 3	/4"	BR15	J1

64102	SECONDARY ELEVATION AT A	A	
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:		DATE:
	LOCATION: Plainfield, New Hampshire	BUTLER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 21
	LAST SAVED BY: manikandan_ramasamy a d	ivision of BlueScope Buildings North America,	, Inc.

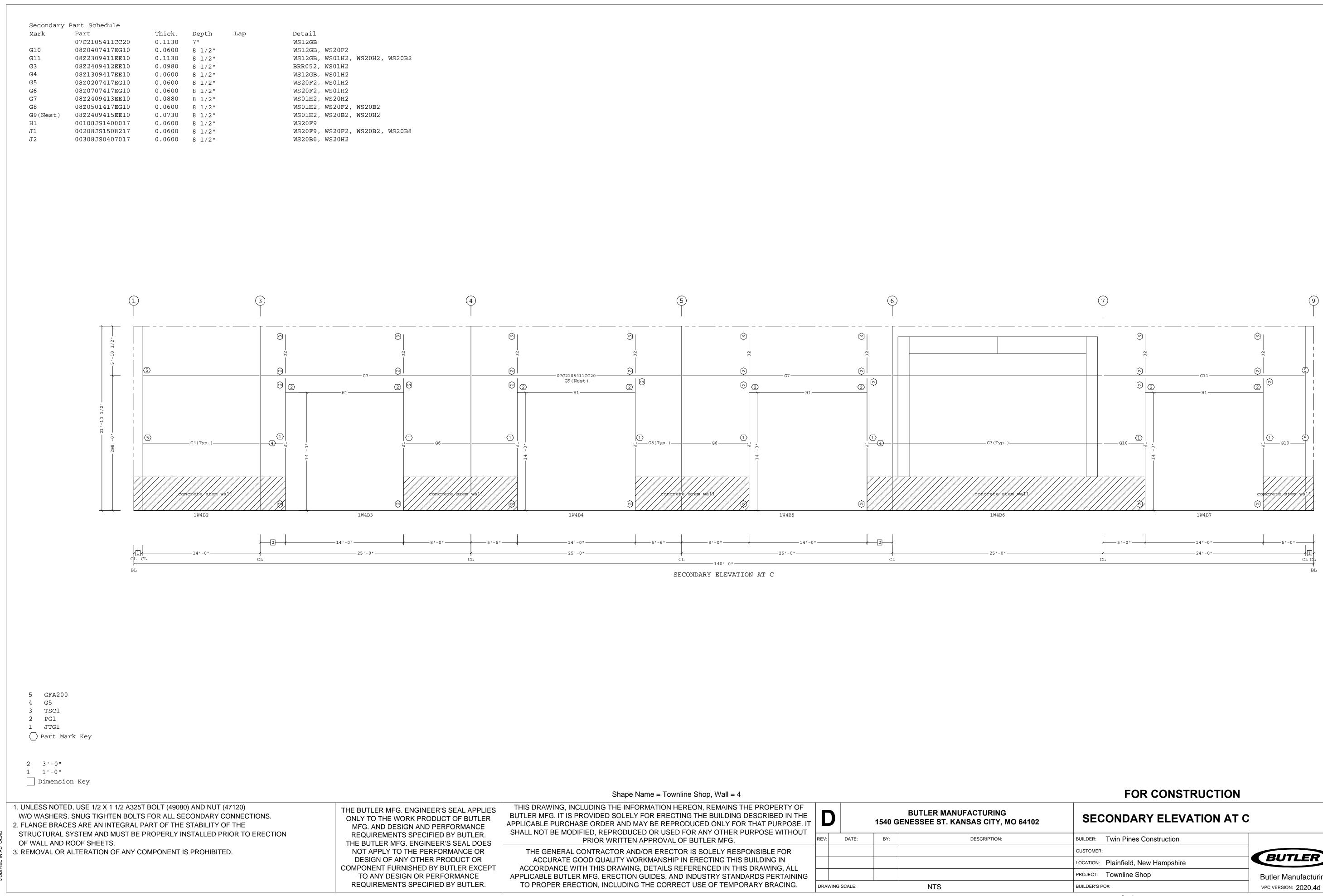


FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\Sec & Covering\New folder\22-21-000133-01_SECONDARY ELEVATION AT 9.dwg

Г			BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO				
	REV:		DATE:	BY:	DESCRIPTION:		
	DRAWING SCALE:				NTS		
SAVE DATE: 3/22/2021					SAVE TIME: 15:59:50		

LAST SAVED BY: manikandan_ramasamy

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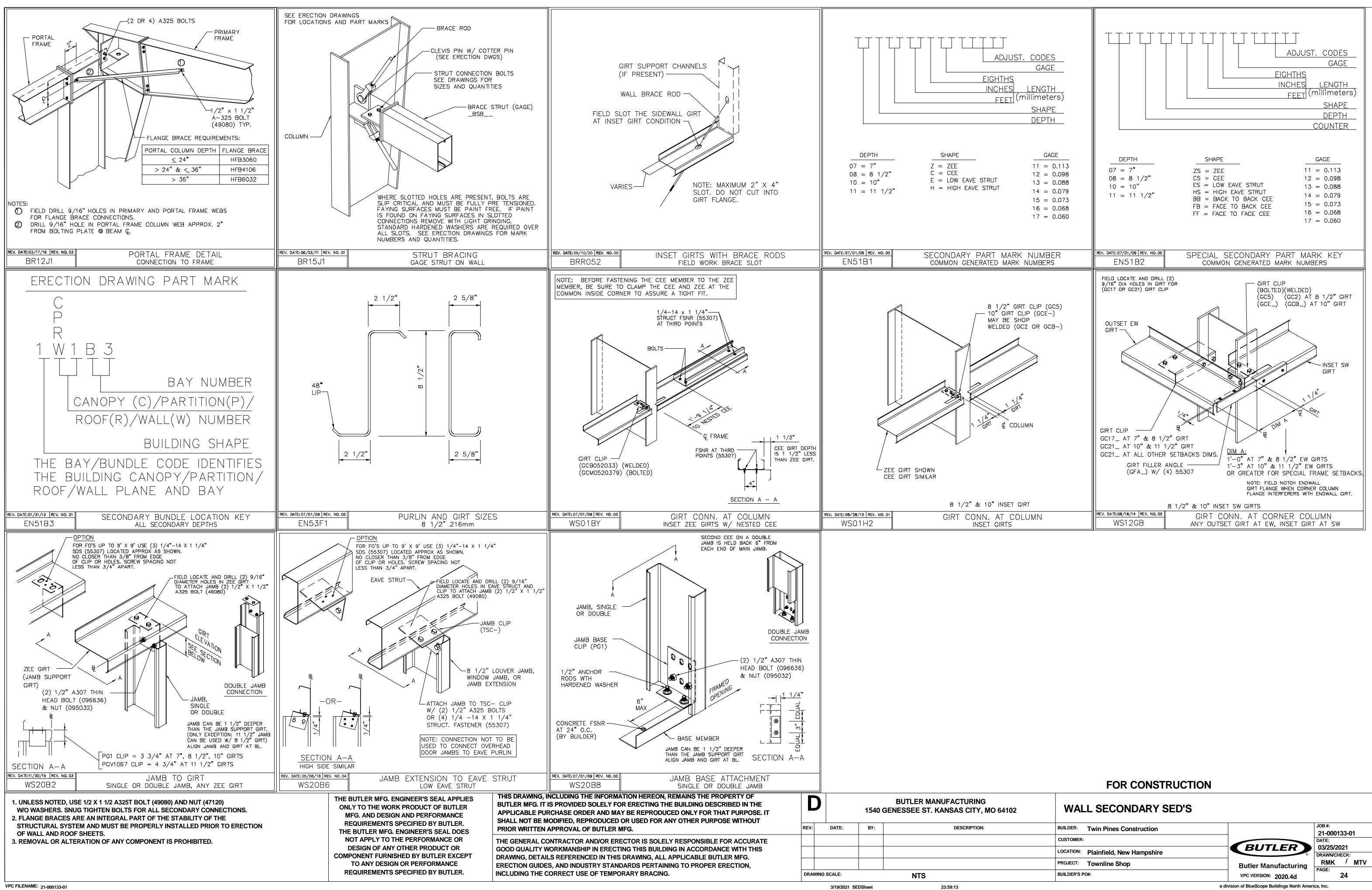


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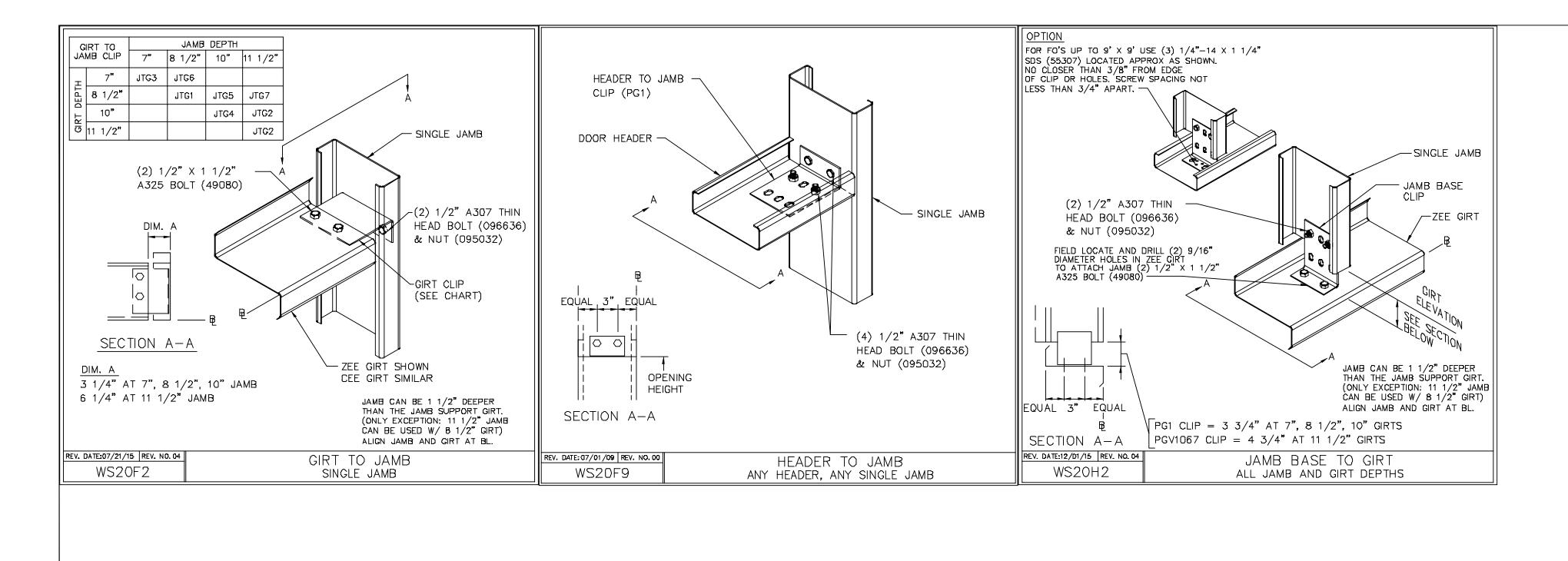
FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\Sec & Covering\New folder\23-21-000133-01_SECONDARY ELEVATION AT C.dwg

Г	D			1540 G	BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64
	REV:		DATE:	BY:	DESCRIPTION:
	DRA	WING	SCALE:		NTS
	SAVE	DATE	: 3/22/2021		SAVE TIME: 16:06:32

64102	SECONDARY ELEVATION AT C	;	
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:	BUTLER	DATE:
	LOCATION: Plainfield, New Hampshire	BUILER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 23
	LAST SAVED BY: manikandan_ramasamy a div	vision of BlueScope Buildings North America,	, Inc.



WALL SECONDARY SED'S		
BUILDER: Twin Pines Construction		JOB #: 21-000133-01
CUSTOMER:		DATE:
LOCATION: Plainfield, New Hampshire	BUTLER	03/25/2021 DRAWN/CHECK:
PROJECT: Townline Shop	Butler Manufacturing	RMK [/] MTV
BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 24
a di	vision of BlueScope Buildings North Ameri	ca. Inc.



1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.

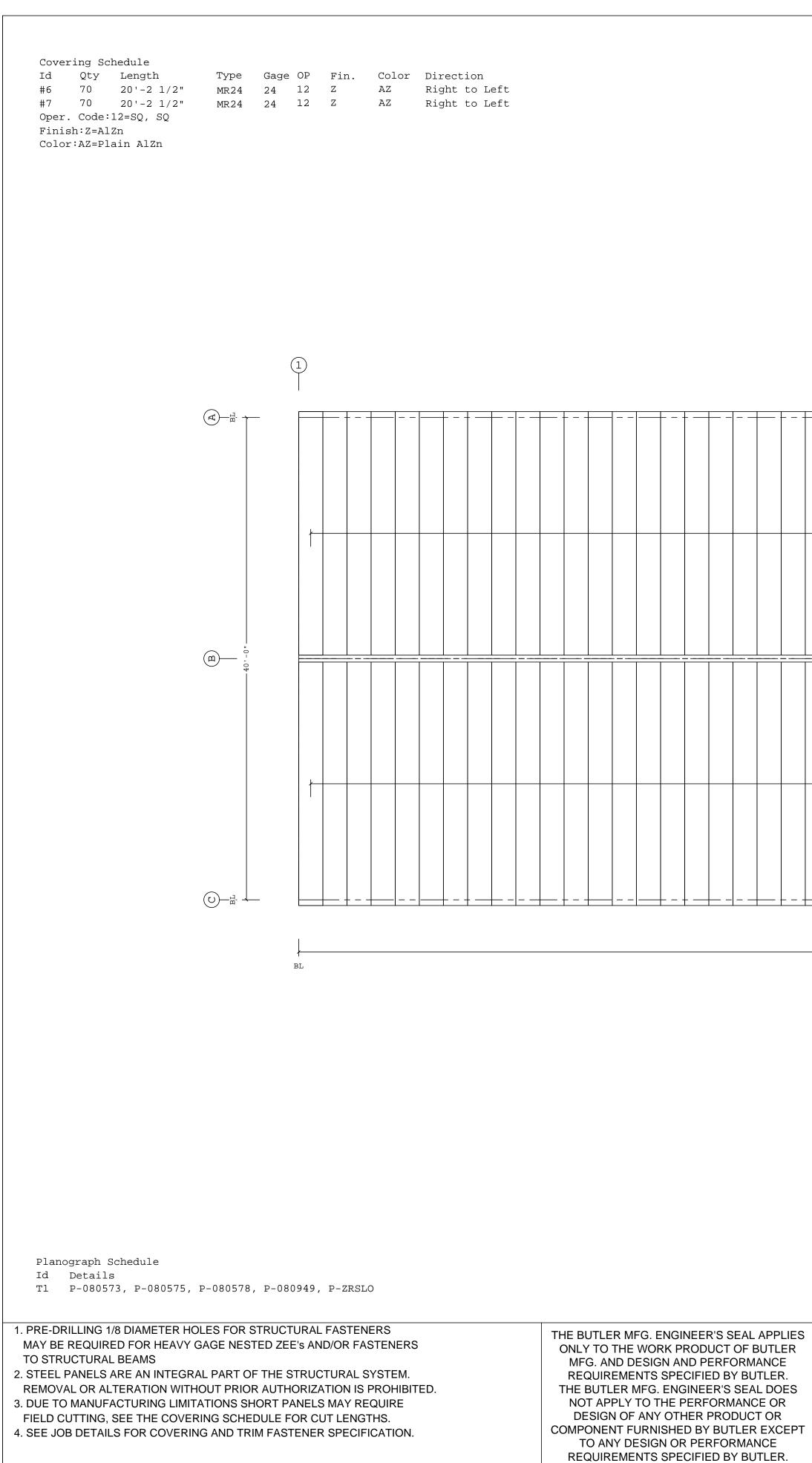
2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS.

3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER.

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PRIOR WRITTEN APPROVAL OF BUTLER MFG.	REV:	DATE:	BY:	DESCRIPTION:		
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,						
NCLUDING THE CORRECT USE OF TEMPORARY BRACING.	DRAWIN	NG SCALE:		NTS		
		3/19/2021 S	EDSheet	23:59:15		

WALL SECONDARY SED'S		
BUILDER: Twin Pines Construction		JOB #:
CUSTOMER:		21-000133-01 DATE:
LOCATION: Plainfield, New Hampshire	BUTLER	03/25/2021 DRAWN/CHECK:
PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV
BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 25
a di	vision of BlueScope Buildings North Ameri	ca, Inc.



FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\Sec & Covering\New folder\26-21-000133-01_ROOF COVERING PLAN.dwg

Trim	Schedule				Acces	sory Schedule	
Id	Parts	Qty	Color	Details	Qty	Color	Descri
Т1	(7)RC20	140'-0"	Plain AlZn	ENB004, NV667	3	Cool Gray Stone	3070 I
					8	Not Applicable	Window
					3	Not Applicable	Window - 3"]

	T1	
 (70		(70
) #7
		·

ROOF COVERING PLAN

140'-0"

Shape Name = Townline Shop

THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MFG.

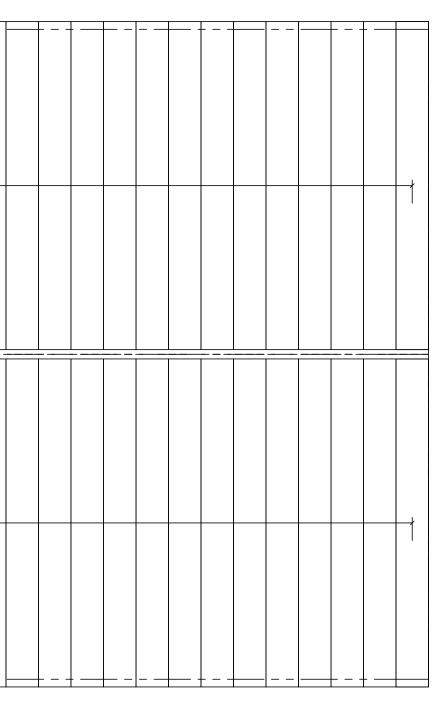
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

г				BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO								
	REV:		DATE:	BY:	DESCRIPTION:							
	DRA	WING	SCALE:		NTS							
	SAVE	DATE	: 3/25/2021		SAVE TIME: 16:28:00							

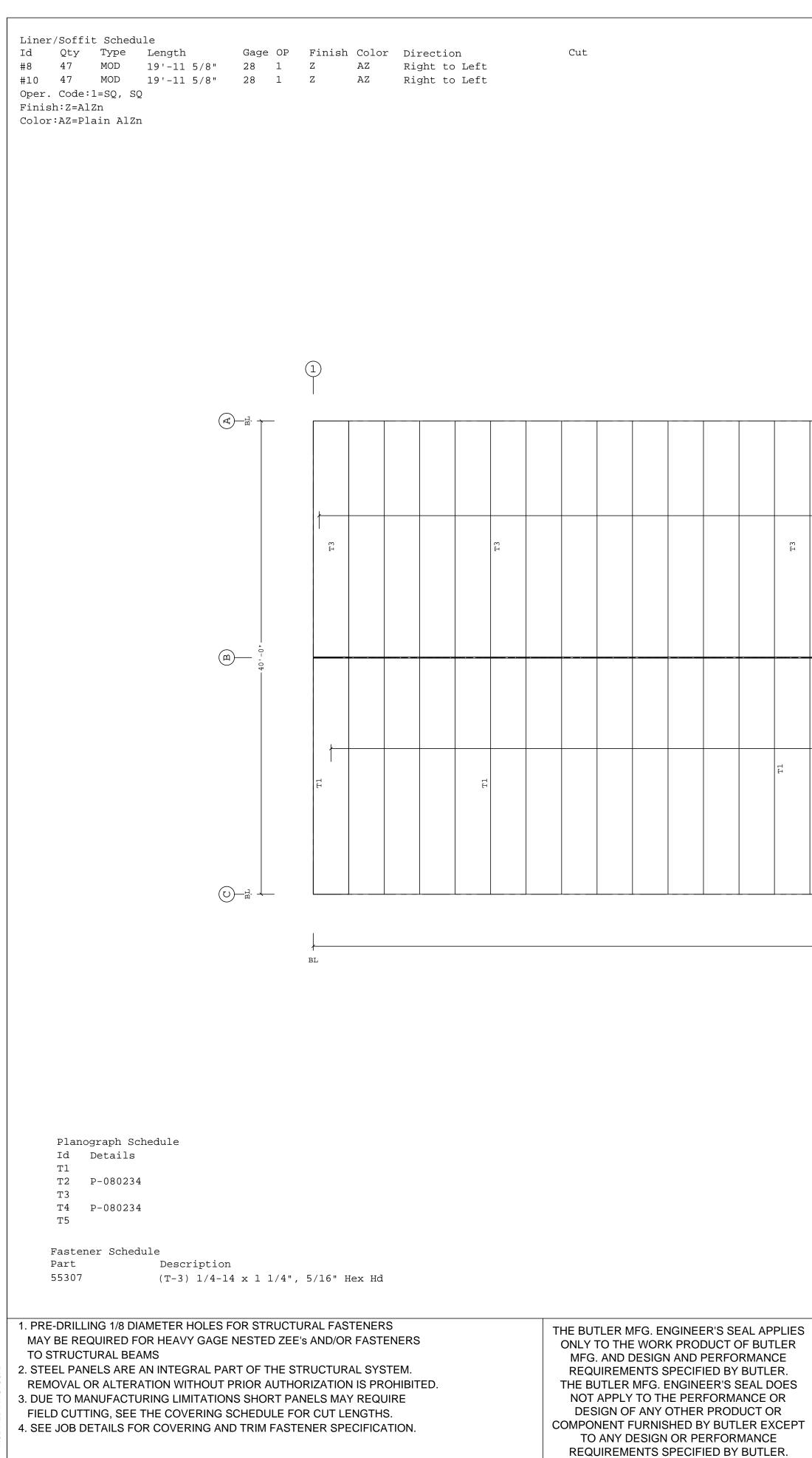
Detail

cription) Door 3" Fineline/Shallow Plank/Light Mesa 30 dow 6030 Fixed - Clear 1" Glass Insulated - 3" IMP Pnl dow 6030 Horizontal Slider w/ Screen - Clear 5/8" Glass Insulated IMP Pnl

(9)



64102	ROOF COVERING PLAN		
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:	BUTLER	DATE:
	LOCATION: Plainfield, New Hampshire	BUILER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 26
	LAST SAVED BY: manikandan_ramasamy a div	ision of BlueScope Buildings North America,	Inc.



FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\Sec & Covering\New folder\27-21-000133-01_ROOF LINER PLAN.dwg

					Т4									
				(47)#1										
				(4/)#_										
Т. Д				T 3						Т3				
		 	 	 т5			 	 	 		 	 	 	 -
						-(47)#8·								
_														
ц Т				_										
				Т 1					1 1					1 1
				т2	2									

ROOF LINER PLAN (View from outside Building)

Shape Name = Townline Shop

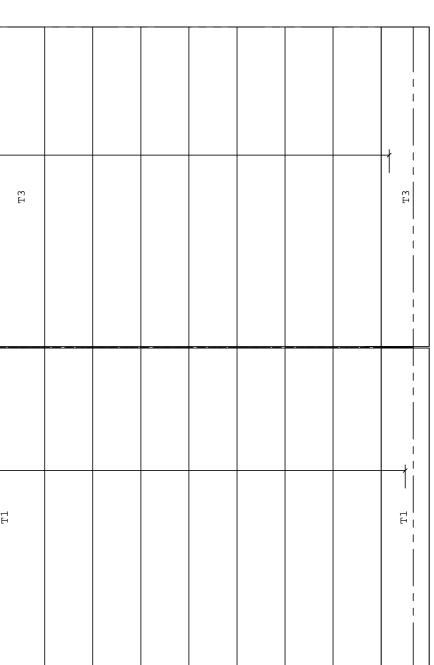
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Т				BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64						
	REV:		DATE:	BY:	DESCRIPTION:					
	DRA	WING	SCALE:		NTS					
	SAVE	DATE	: 3/25/2021		SAVE TIME: 16:27:44					

Parts	Qty	Color	Details
(5)JT10	20'-0 3/16"	Plain AlZn	WCB089
(12)LPJT	140'-0"	Plain AlZn	WCB011
(5)JT10	20'-0 3/16"	Plain AlZn	WCB089
(12)LPJT	140'-0"	Plain AlZn	WCB011
(14)LTA10	140'-0"	Plain AlZn	WCB016

9

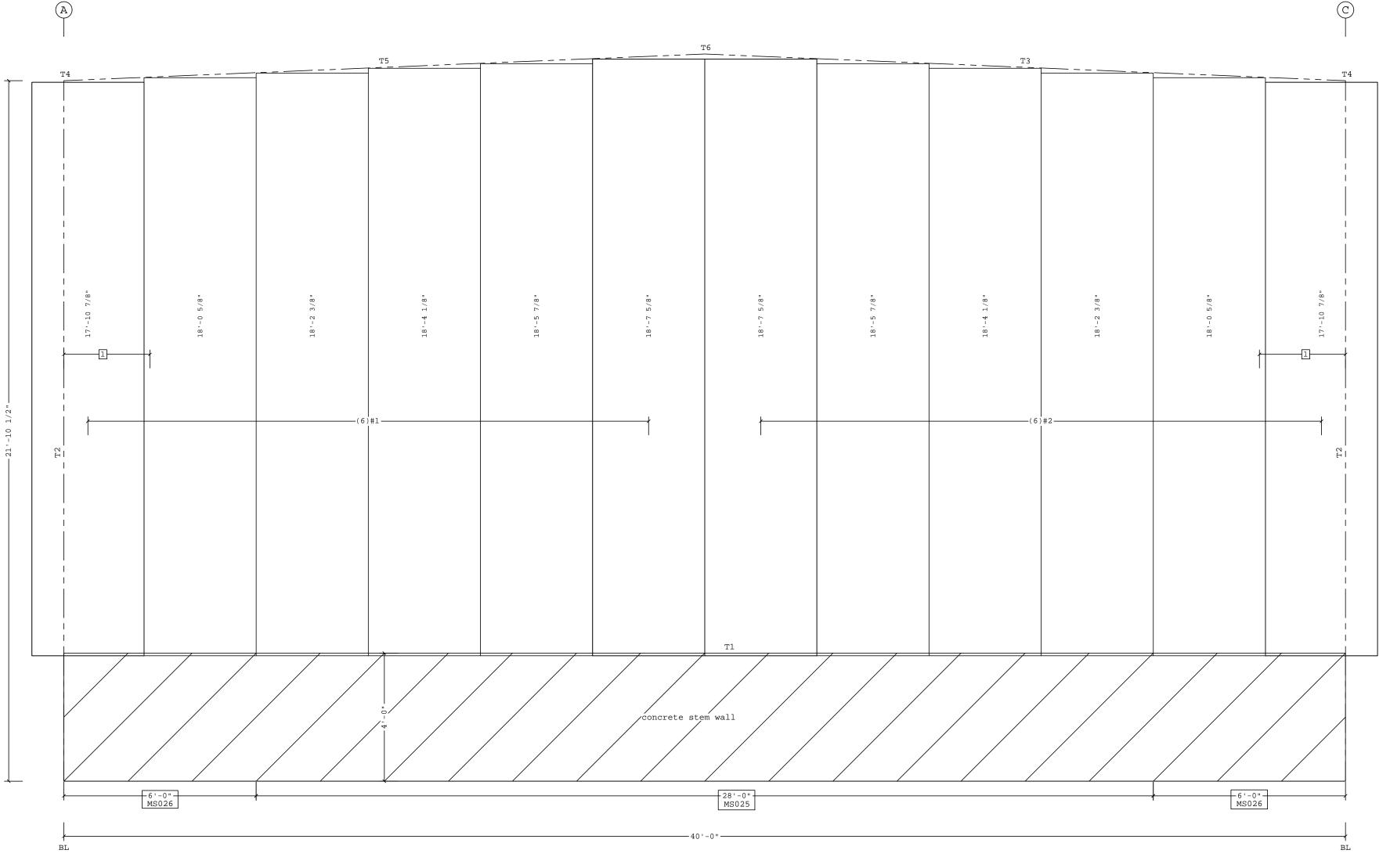


FOR CONSTRUCTION

64102	ROOF LINER PLAN		
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:		DATE:
	LOCATION: Plainfield, New Hampshire		03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 27
	LAST SAVED BY: manikandan_ramasamy a	division of BlueScope Buildings North America	, Inc.

BT.

Id	Qty	Туре	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#1	6	THFL30	17'-10 7/8"	26	1	K	GT	1 3/4"	Left to Right
#2	6	THFL30	18'-7 5/8"	26	1	K	GT	-1 3/4"	Left to Right



Planograph Schedule
Id Details
T1 B-081517, P-080879
T2 B-081398, B-081517, P-080879
T3 B-081517, P-080883, P-081167, P-105018, P-RCI
T4 P-080572, P-081236, P-103223, P-104542, P-104714
T5 B-081517, P-080883, P-081167, P-105018, P-RCI
T6 P-081167, P-081243, P-GAI

1 2'-8 1/4" Scribe Line Dimension Key

 PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
 STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM.

REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED. 3. DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.

4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER.

FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\Sec & Covering\New folder\28-21-000133-01_COVERING ELEVATION AT 1.dwg

Trim Schedule Id Parts

- T1 (3.4)F5984-26-12, (2)PBA20, (2)PS
- T2 (2)F5139-26-12, (2)SCT12B-26-12
- T3 MRGT20R, (2.0)WA10B T4 0630043
- T5 MRGT20L, (2.0)WA10B

T6 0560173, MRRET, RBT2, TC1, (0.1)V

COVERING ELEVATION AT 1

Shape Name = Townline Shop, Wall = 1

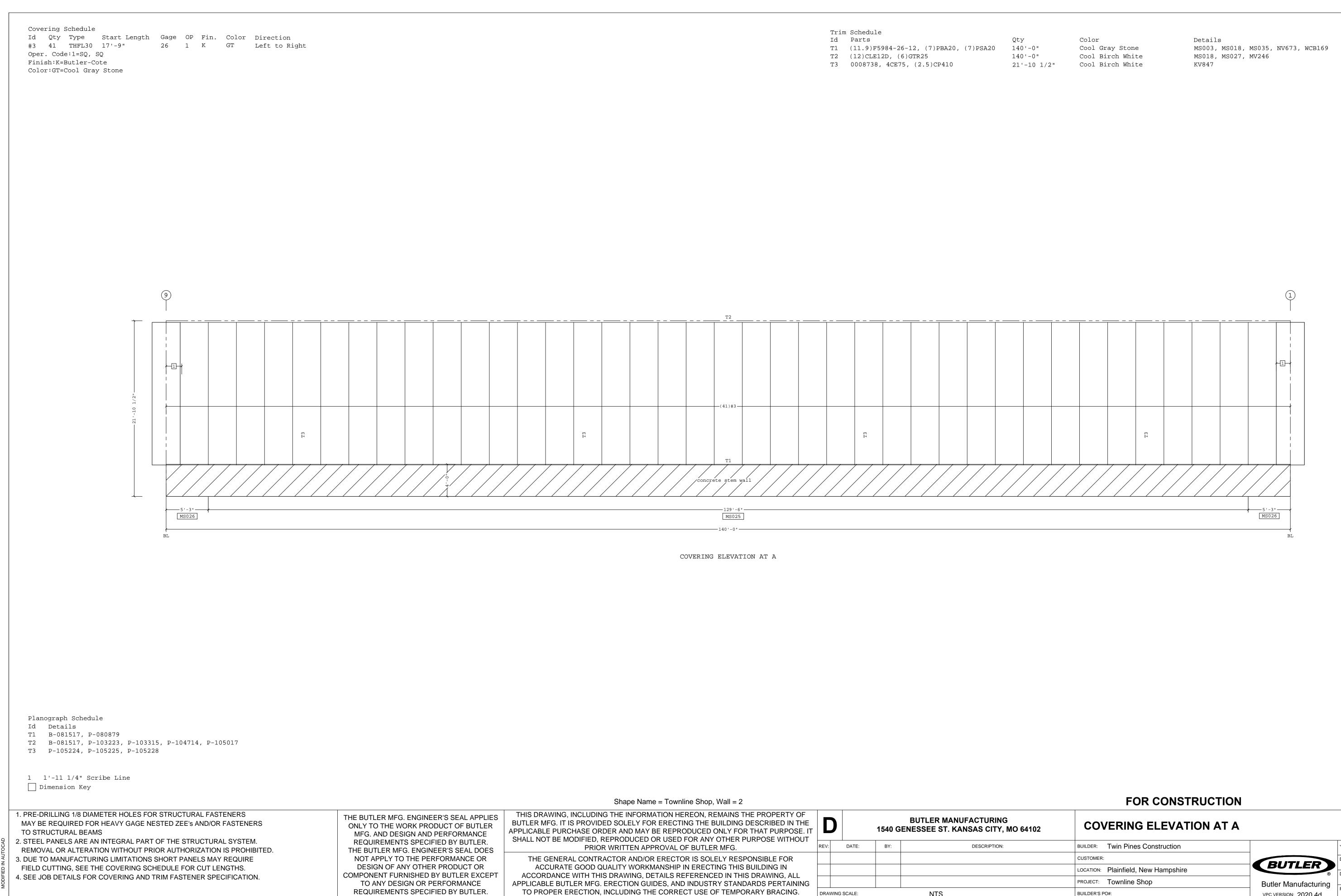
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-				1540 G	BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64
	REV:		DATE:	BY:	DESCRIPTION:
	DRA	WING	SCALE:		NTS
	SAVE	DATE	3/25/2021		SAVE TIME: 17:41:06

	Qty	Color	Details
PSA20	40'-0"	Cool Gray Stone	MS003, MS018, MS035, NV673, WCB169
	17'-10 1/2"	Cool Gray Stone	MS007, MS035
	20'-0 3/16"	Cool Birch White	KV411, KV412, MS018, MS028
	1	Cool Birch White	
	20'-0 3/16"	Cool Birch White	KV411, KV412, MS018, MS028
)VWA10	1	Cool Birch White	

D 64102	COVERING ELEVATION AT 1		
	BUILDER: Twin Pines Construction		ЈОВ #: 21-000133-01
	CUSTOMER:	BUTLER	DATE:
	LOCATION: Plainfield, New Hampshire	BUILER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 28
	LAST SAVED BY: manikandan_ramasamy a d	livision of BlueScope Buildings North America	, Inc.

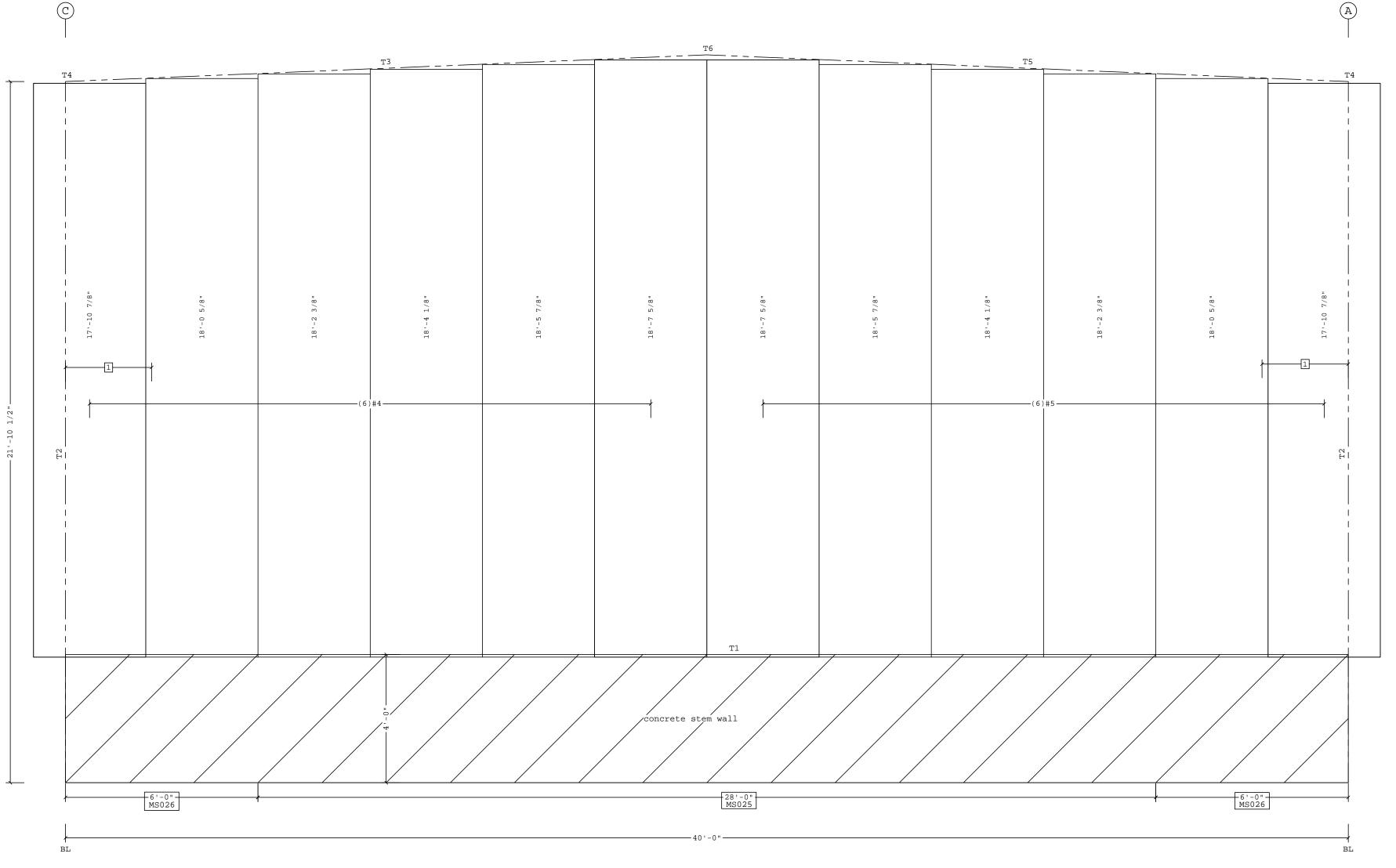


FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\Sec & Covering\New folder\29-21-000133-01_COVERING ELEVATION AT A.dwg

)		1540 G	BUTLER MANUFACTURING ENESSEE ST. KANSAS CITY, MO 64
REV:		DATE:	BY:	DESCRIPTION:
DRA	WING	SCALE:		NTS
SAVE	DATE	: 3/25/2021		SAVE TIME: 17:32:14

64102	COVERING ELEVATION A	ГА					
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01				
	CUSTOMER:		DATE:				
	LOCATION: Plainfield, New Hampshire	BUTLER	03/25/2021 DRAWN/CHECK:				
	PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV				
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 29				
	LAST SAVED BY: manikandan_ramasamy	a division of BlueScope Buildings North America	, Inc.				

‡ 4 б	דים דיתי					Fin.	Color	Increment	Direction
	IULT	30 17'	-10 7/8"	26	1	K	GT	1 3/4"	Left to Right
4 5 6	THFL	30 18'	-7 5/8"	26	1	K	GT	-1 3/4"	Left to Right
Oper. C	Code:1=S	Q, SQ							



Planograph Schedule
Id Details
T1 B-081517, P-080879
T2 B-081398, B-081517, P-080879
T3 B-081517, P-080883, P-081167, P-105018, P-RCI
T4 P-080572, P-081236, P-103223, P-104542, P-104714
T5 B-081517, P-080883, P-081167, P-105018, P-RCI
T6 P-081167, P-081243, P-GAI

1 2'-8 1/4" Scribe Line Dimension Key

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4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER.

FILENAME: \\bbkc1fs200\Buildingfiles\BMC\21-000133\9 Internal\02 - OUTGOING\04 - ERD\CAD\Sec & Covering\New folder\30-21-000133-01_COVERING ELEVATION AT 9.dwg

Trim Schedule Id Parts

- T1 (3.4)F5984-26-12, (2)PBA20, (2)PSA20
- T2 (2)F5139-26-12, (2)SCT12B-26-12
- T3 MRGT20L, (2.0)WA10B
- T4 0630043 T5 MRGT20R, (2.0)WA10B
- T6 0560173, MRRET, RBT2, TC1, (0.1)VWA

COVERING ELEVATION AT 9

Shape Name = Townline Shop, Wall = 3

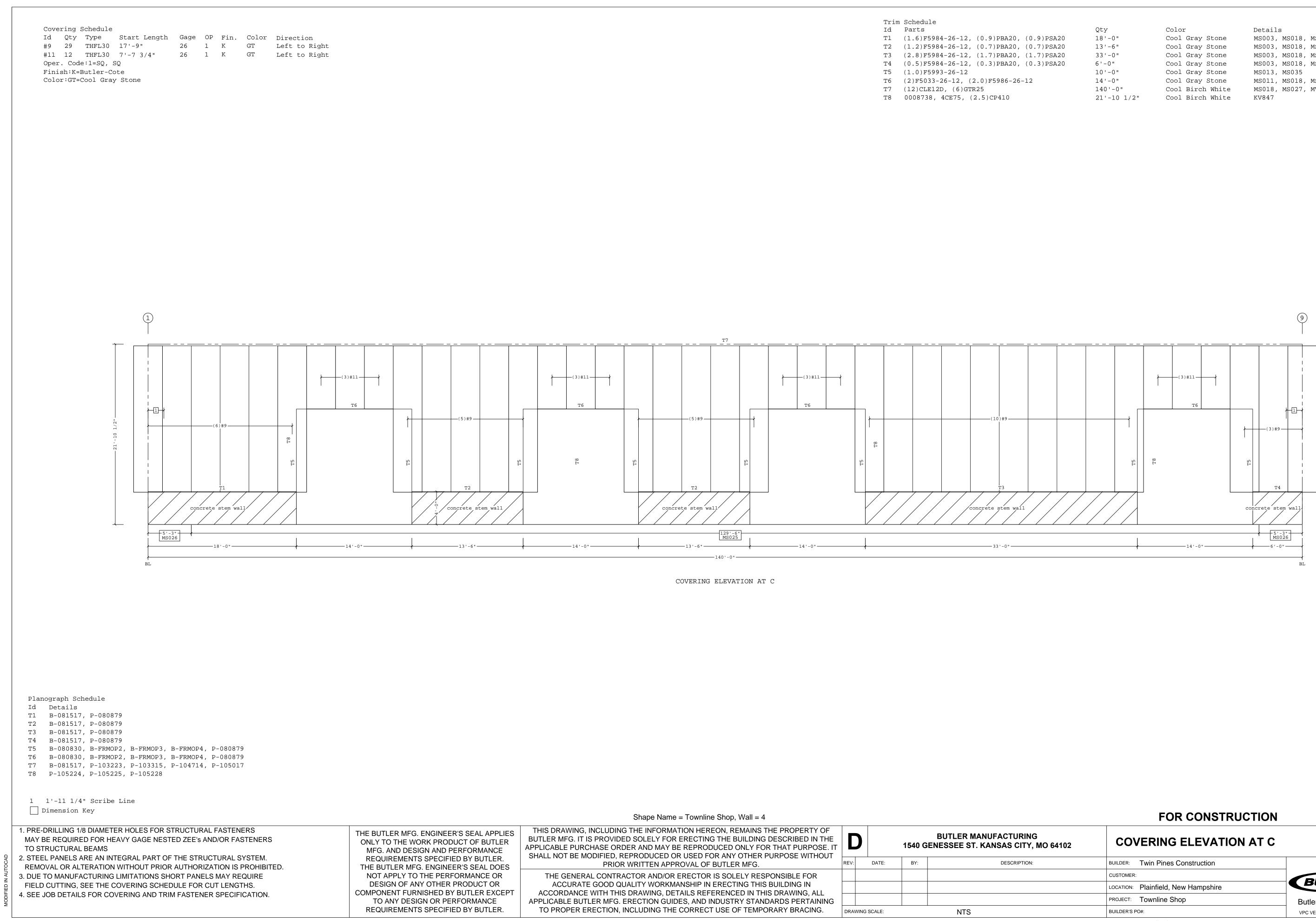
THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES

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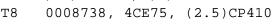
_	D			1540 G	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64			
	REV:		DATE:	BY:	DESCRIPTION:			
	DRA	WING	SCALE:		NTS			
	SAVE	DATE	: 3/25/2021		SAVE TIME: 17:34:02			

	Qty	Color	Details
A20	40'-0"	Cool Gray Stone	MS003, MS018, MS035, NV673, WCB169
	17'-10 1/2"	Cool Gray Stone	MS007, MS035
	20'-0 3/16"	Cool Birch White	KV411, KV412, MS018, MS028
	1	Cool Birch White	
	20'-0 3/16"	Cool Birch White	KV411, KV412, MS018, MS028
WA10	1	Cool Birch White	

D 64102	COVERING ELEVATION AT 9		
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:		DATE:
	LOCATION: Plainfield, New Hampshire	BUTLER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 30
	LAST SAVED BY: manikandan_ramasamy a d	ivision of BlueScope Buildings North America	, Inc.



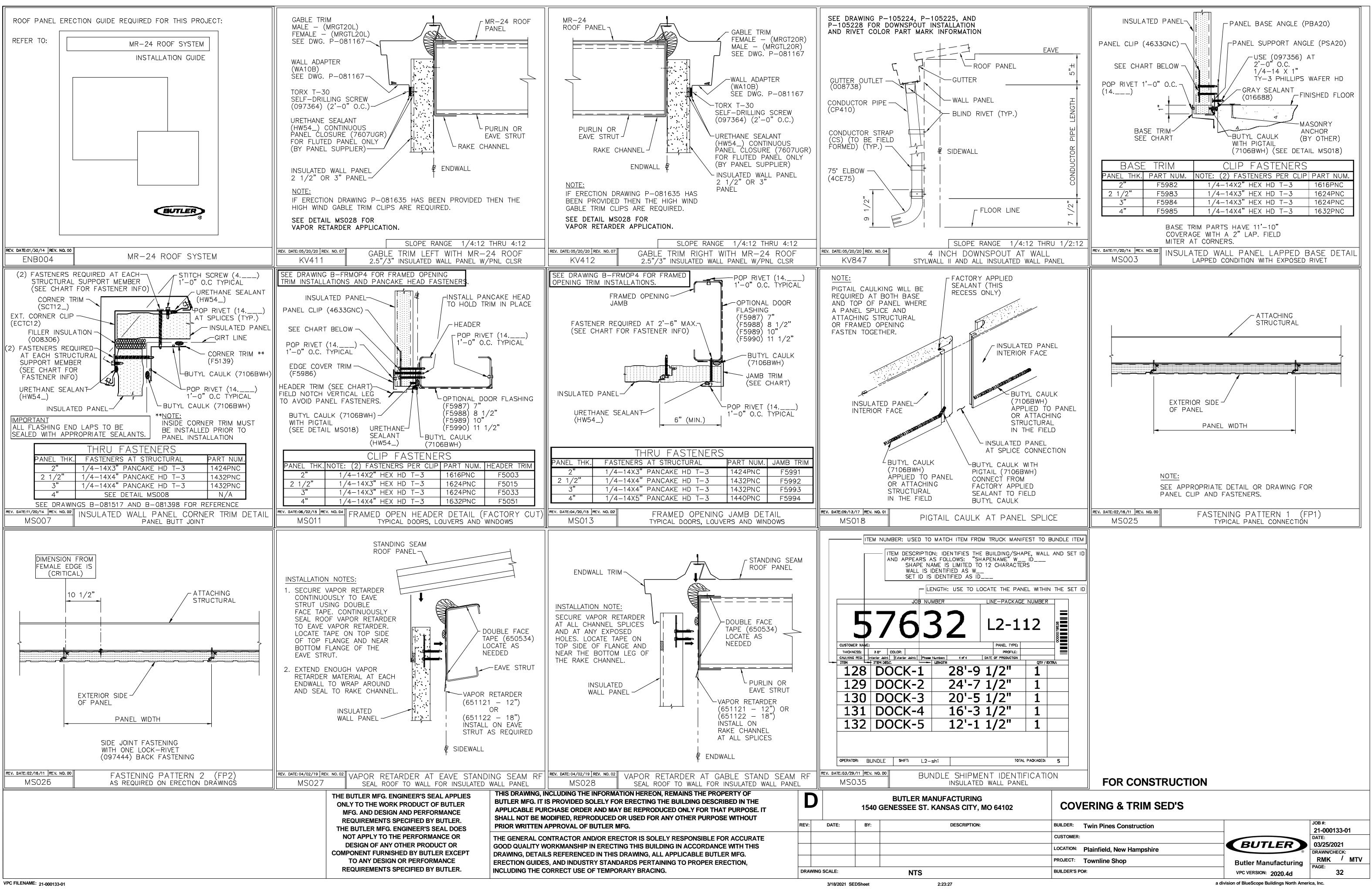
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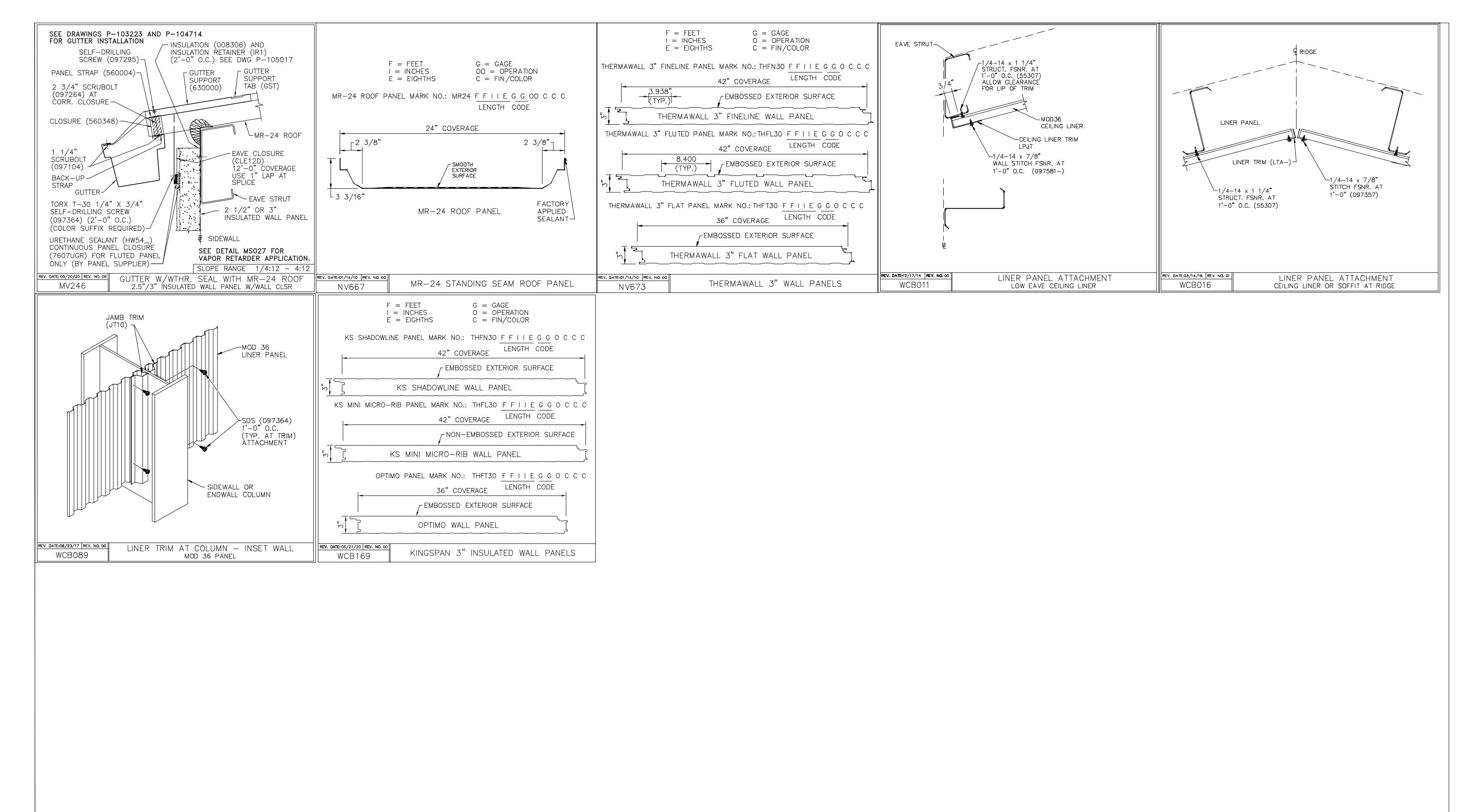


Г	D		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 6				
	REV:		DATE:	BY:	DESCRIPTION:		
	DRA	WING	SCALE:		NTS		
SAVE DATE: 3/25/2021			3/25/2021		SAVE TIME: 17:41:02		

	Qty	Color	Details					
SA20	18'-0"	Cool Gray Stone	MS003, MS018, MS035, NV673, WCB169					
SA20	13'-6"	Cool Gray Stone	MS003, MS018, MS035, NV673, WCB169					
SA20	33'-0"	Cool Gray Stone	MS003, MS018, MS035, NV673, WCB169					
SA20	б'-0"	Cool Gray Stone	MS003, MS018, MS035, NV673, WCB169					
	10'-0"	Cool Gray Stone	MS013, MS035					
	14'-0"	Cool Gray Stone	MS011, MS018, MS035					
	140'-0"	Cool Birch White	MS018, MS027, MV246					
	21'-10 1/2"	Cool Birch White	KV847					

64102	COVERING ELEVATION AT	С	
	BUILDER: Twin Pines Construction		JOB #: 21-000133-01
	CUSTOMER:		DATE:
	LOCATION: Plainfield, New Hampshire	BUTLER	03/25/2021 DRAWN/CHECK:
	PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV
	BUILDER'S PO#:	VPC VERSION: 2020.4d	PAGE: 31
	LAST SAVED BY: manikandan_ramasamy	a division of BlueScope Buildings North America,	Inc.

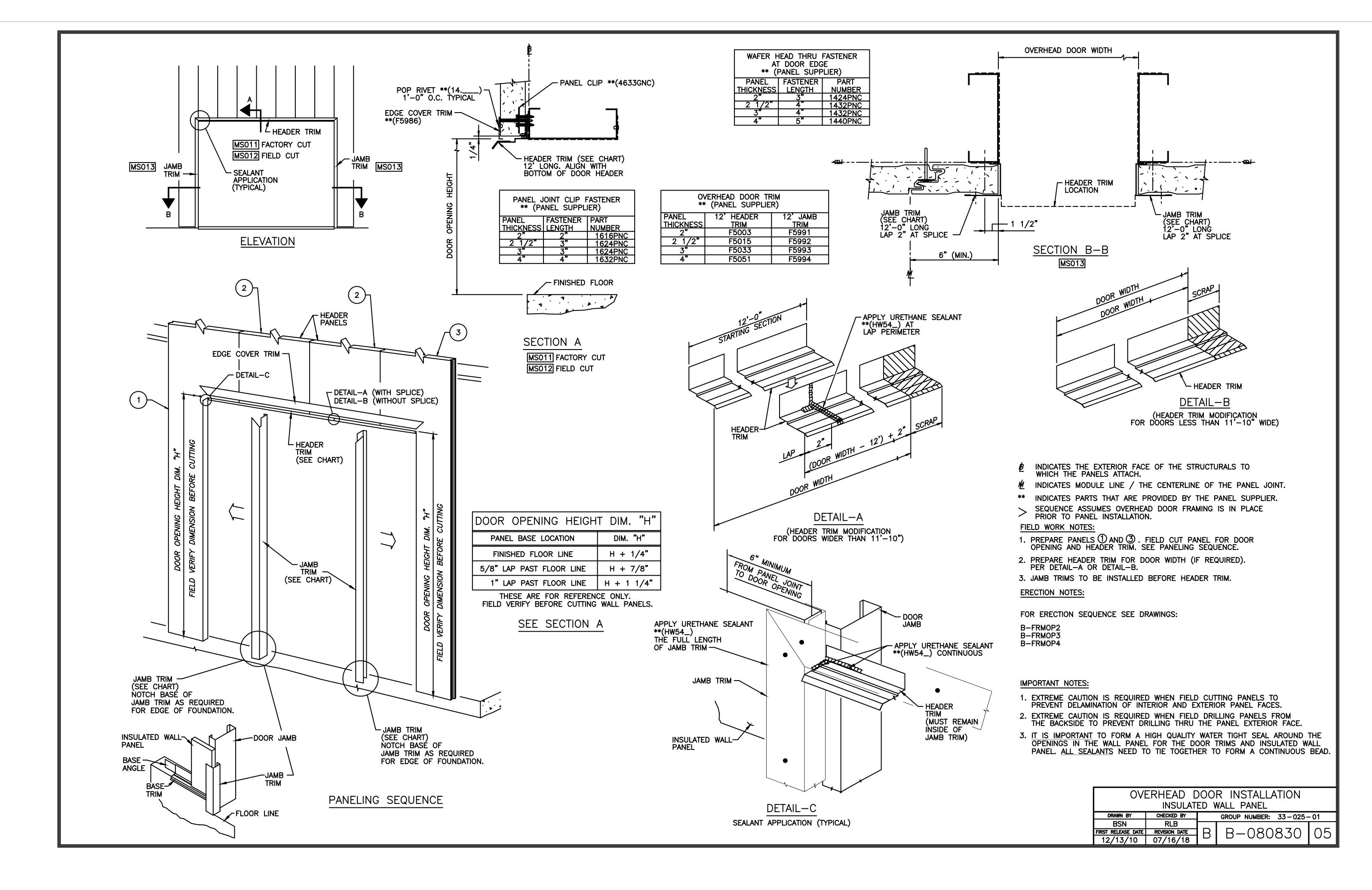


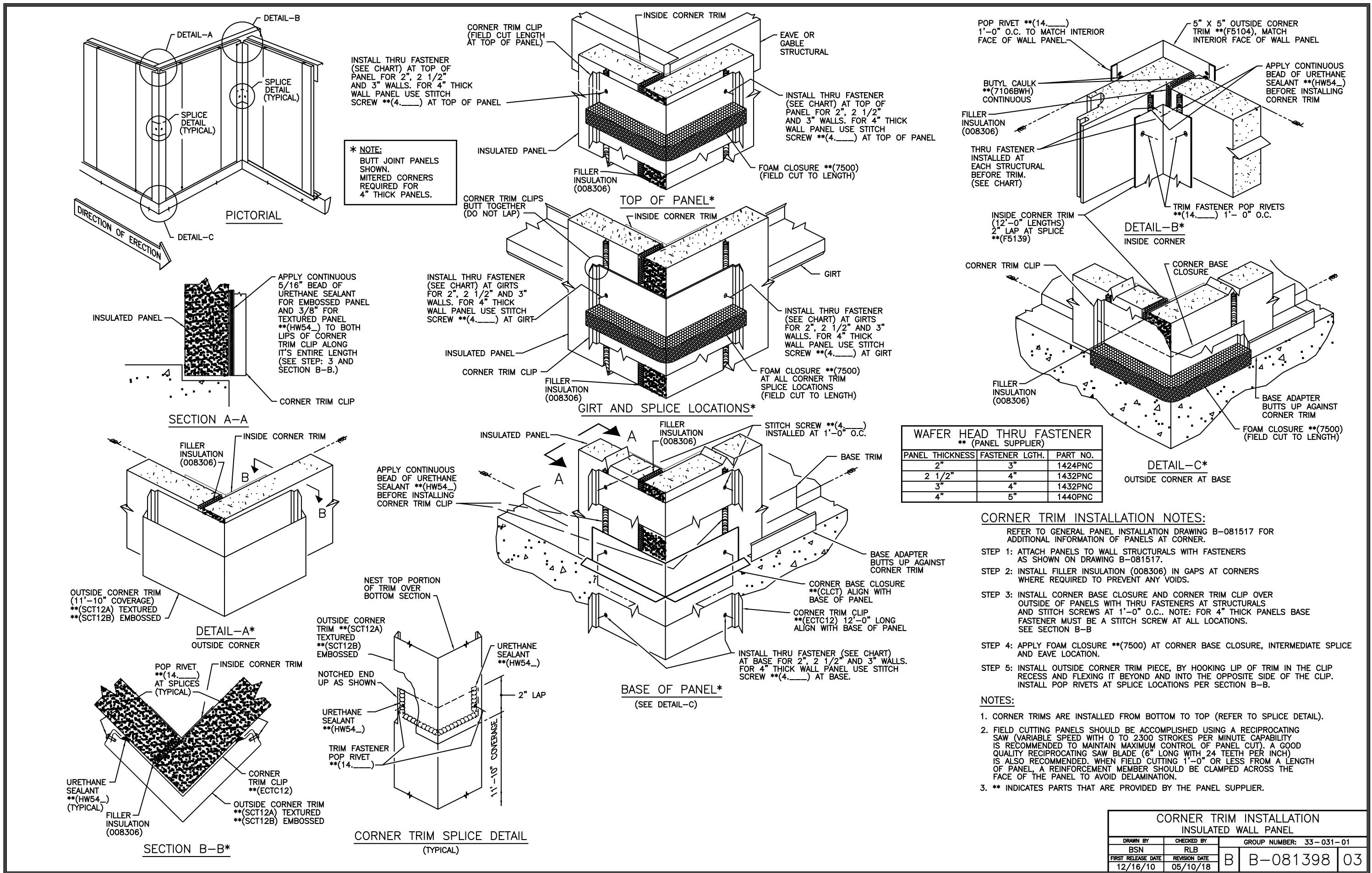


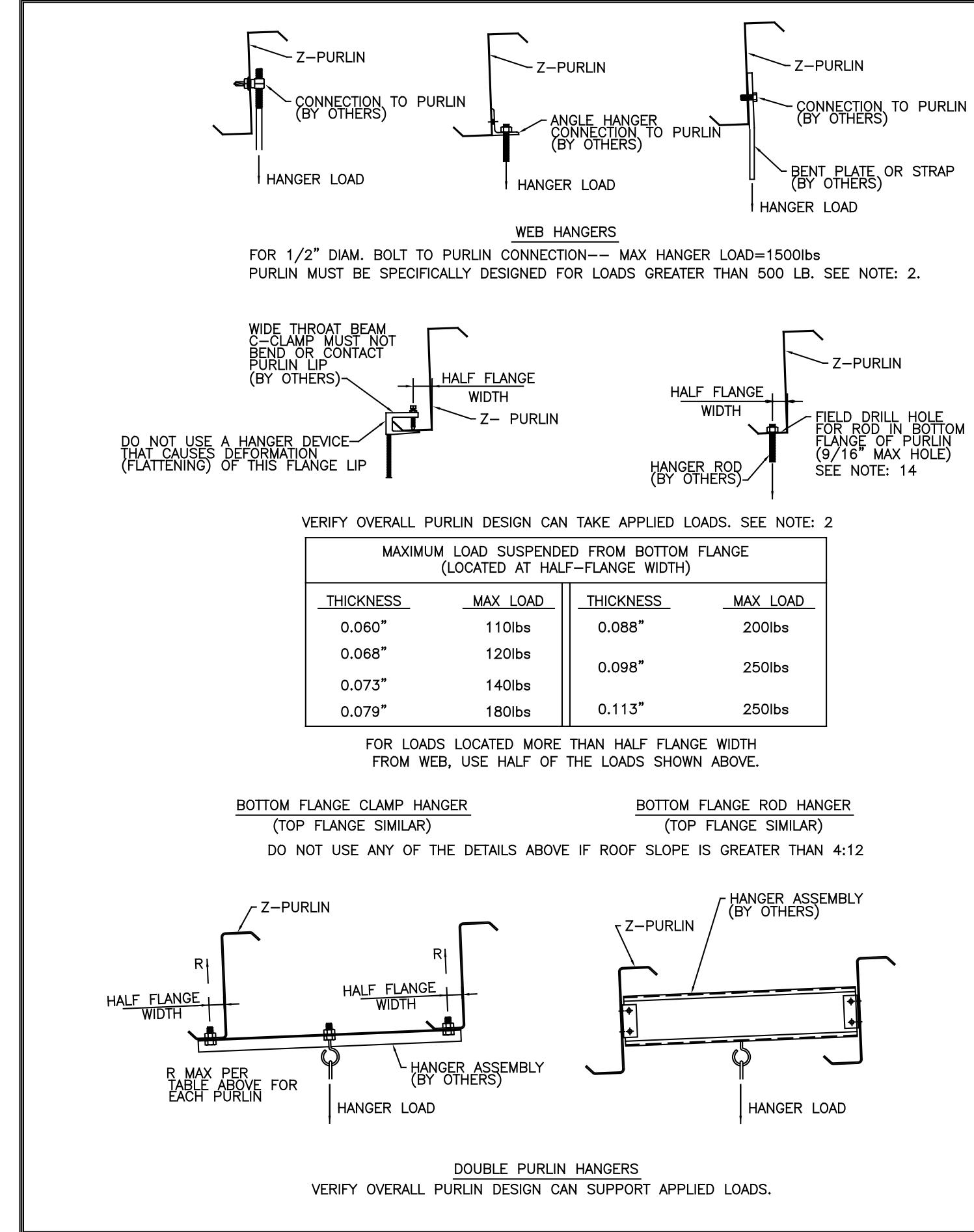
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PRIOR WRITTEN APPROVAL OF BUTLER MFG.	REV:	DATE:	BY:	DESCRIPTION:
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE				
GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS				
DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG.				
ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,				
LUDING THE CORRECT USE OF TEMPORARY BRACING.	DRAWING SCALE: NTS		NTS	
		3/25/2021 S	EDSheet	6:20:29

COVERING & TRIM SED'S		
BUILDER: Twin Pines Construction		JOB #: 21-000133-01
CUSTOMER:		DATE:
LOCATION: Plainfield, New Hampshire	BUTLER	03/25/2021 DRAWN/CHECK:
PROJECT: Townline Shop	Butler Manufacturing	RMK / MTV
BUILDER'S PO#:	VPC VERSION: 2021.1a	33
	a division of BlueScope Buildings North Amer	ca, Inc.







GENERAL NOTES

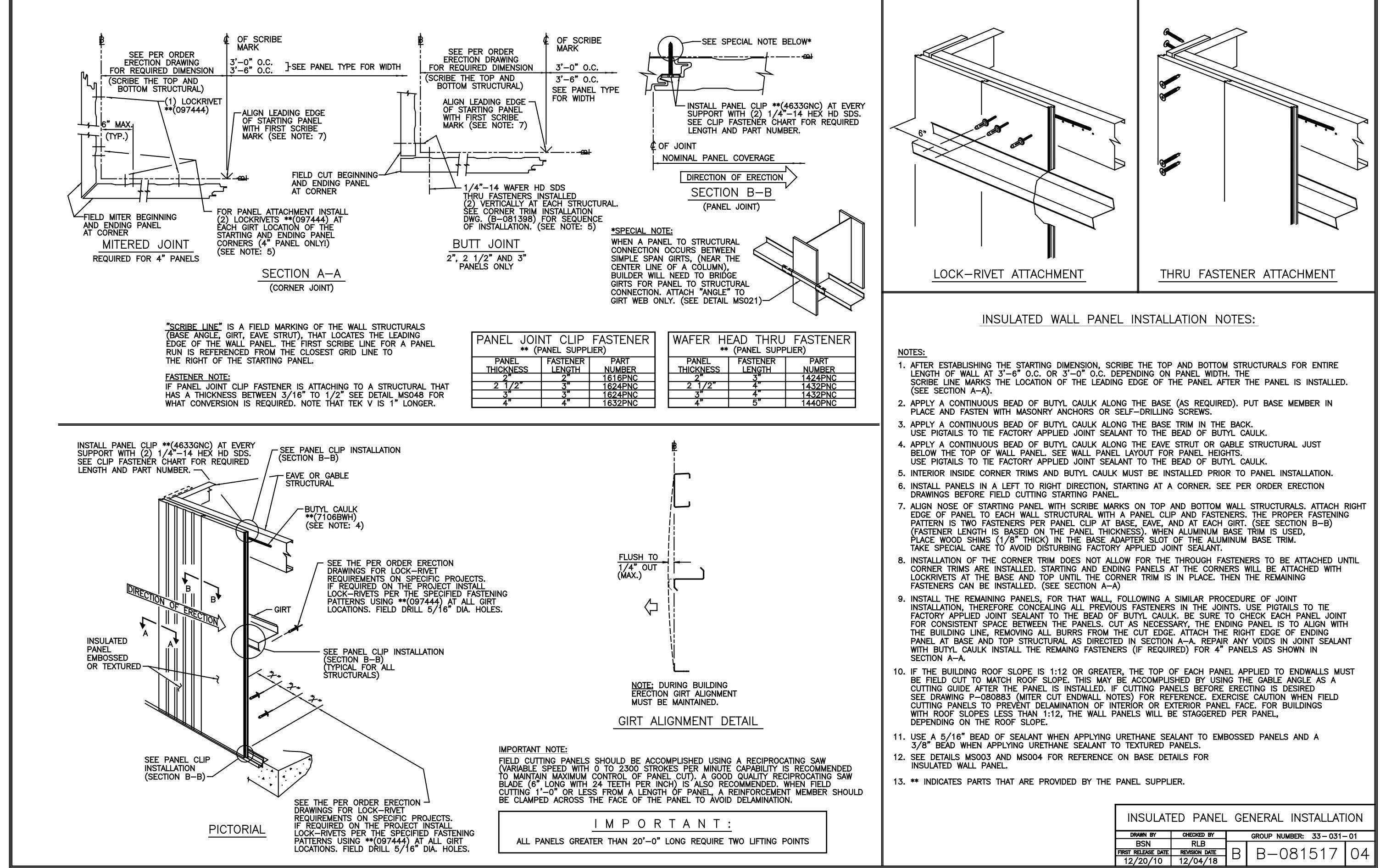
- P MAX = 0.5wlP MAX = 0.4wlP MAX = 0.2wlP MAX = 0.15w

1. CONCENTRATED LOADS GREATER THAN 500Ibs ON ANY SINGLE PURLIN MUST BE EXPLICITLY LOCATED AND DESIGNED FOR DURING DESIGN OF BUILDING SYSTEM. 2. SPECIFIED COLLATERAL LOADS MAY BE CONVERTED TO SAFE CONCENTRATED LOADS AS FOLLOWS, WHERE P = MAX CONCENTRATED LOAD(Ibs); W = UNIFORM COLLATERAL LOAD (PSF) × PURLIN SPACING (ft) = Ibs/ft; L = PURLIN SPAN (ft). HANGERS SHOULD BE SPACED APPROX. EQUAL. ↓ P ↓ P P MAX = 0.25 wl6 OR MORE HANGERS PER PURLIN P MAX= W × HANGER SPACING EXAMPLE: A PIPE IS SUSPENDED FROM A PURLIN AT 3 LOCATIONS EQUALLY SPACED BAY SPACING = 24'-0''PURLIN SPACING = 5'-0"SPECIFIED COLLATERAL LOAD = 5 PSF $W = 5 PSF \times 5' = 25 PLF$ L = 24' - 0'' $PMAX = 0.25 \times 25 PLF \times 24'-0'' = 150 LBS AT EACH LOCATION$ THE PURLIN CAN SUPPORT 3 LOADS UP TO 150 LBS EACH. PICK A HANGER CONNECTION CAPABLE OF SUPPORTING ACTUAL APPLIED LOADS. 3. FOR LOADS GREATER THAN 250 Ibs, PURLINS MUST BE "BLOCKED" AT LOCATION OF LOAD TO PREVENT PURLIN ROTATION. 4. EQUIPMENT LOADS SHOULD BE OBTAINED FROM CERTIFIED EQUIPMENT DRAWINGS AND MANUFACTURER'S DATA. 5. Z-PURLINS WILL DEFLECT UNDER SNOW AND WIND LOADS. ITEMS THAT MAY BE DAMAGED DUE TO DEFLECTIONS, (EX. GAS LINES), VERIFY THAT PIPES OR SUSPENDED EQUIPMENT ARE COMPATIBLE WITH EXPECTED DEFLECTION RANGES (+L/180). 6. THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIRES SPRINKLER HANGERS TO BE DESIGNED FOR A MINIMUM LOAD OF FIVE TIMES THE WEIGHT OF THE WATER-FILLED PIPE PLUS 250 POUNDS. THE HANGER ITSELF MUST BE ABLE TO SUPPORT THIS LOADING, IT IS NOT NECESSARY TO DESIGN THE SUPPORTING MEMBER FOR THIS LOAD IN COMBINATION WITH THE DESIGN LOADS. 7. SUSPENDED LOADS WILL NEED TO BE BRACED (TO THE PRIMARY FORCE RESISTING SYSTEM) FOR LATERAL STABILITY DUE TO EARTHQUAKES. 9. TOP FLANGE HANGERS SHOULD BE AVOIDED ON BUILDINGS WITHOUT INSULATION SPACER BLOCKS ON TOP OF THE TOP FLANGE. IF TOP FLANGE HANGERS ARE REQUIRED, PLACE THE HANGERS AT THE ROOF PANEL MAJOR CORRUGATION LOCATION TO AVOID DAMAGING THE ROOF PANEL WITH THE HANGER WHEN THE ROOF PANEL IS LOADED OR WALKED ON. 10. WHEN BEAM C-CLAMPS OR OTHER ROD HANGERS ARE USED ON THE TOP FLANGE, THE ROD SHOULD NOT EXTEND ABOVE THE TOP OF THE CLAMP TO AVOID DAMAGING THE ROOF PANEL WITH THE ROD WHEN THE ROOF PANEL IS LOADED OR 11. DO NOT HANG ANY TYPE OF CRANE, HOIST, CONVEYOR OR ANY MOVING LOADS FROM THE Z-PURLINS. 12. DO NOT HANG ANY LOAD FROM BBNA SUPPLIED PURLIN BRACES OR BRIDGING. 14. HOLES MUST NOT EXCEED 9/16" DIAMETER UNLESS AUTHORIZED BY BBNA ENGINEER. DRILL OR REAM HOLES WHEN REQUIRED- DO NOT FLAME CUT CONCENTRATED LOADS ON ROOF Z-PURLIN HANGER DETAILS CHECKED BY GROUP NUMBER: 80-054-01 DRAWN BY RBENTON REVERITT B-081465 В 09 FIRST RELEASE DATE REVISION DATE

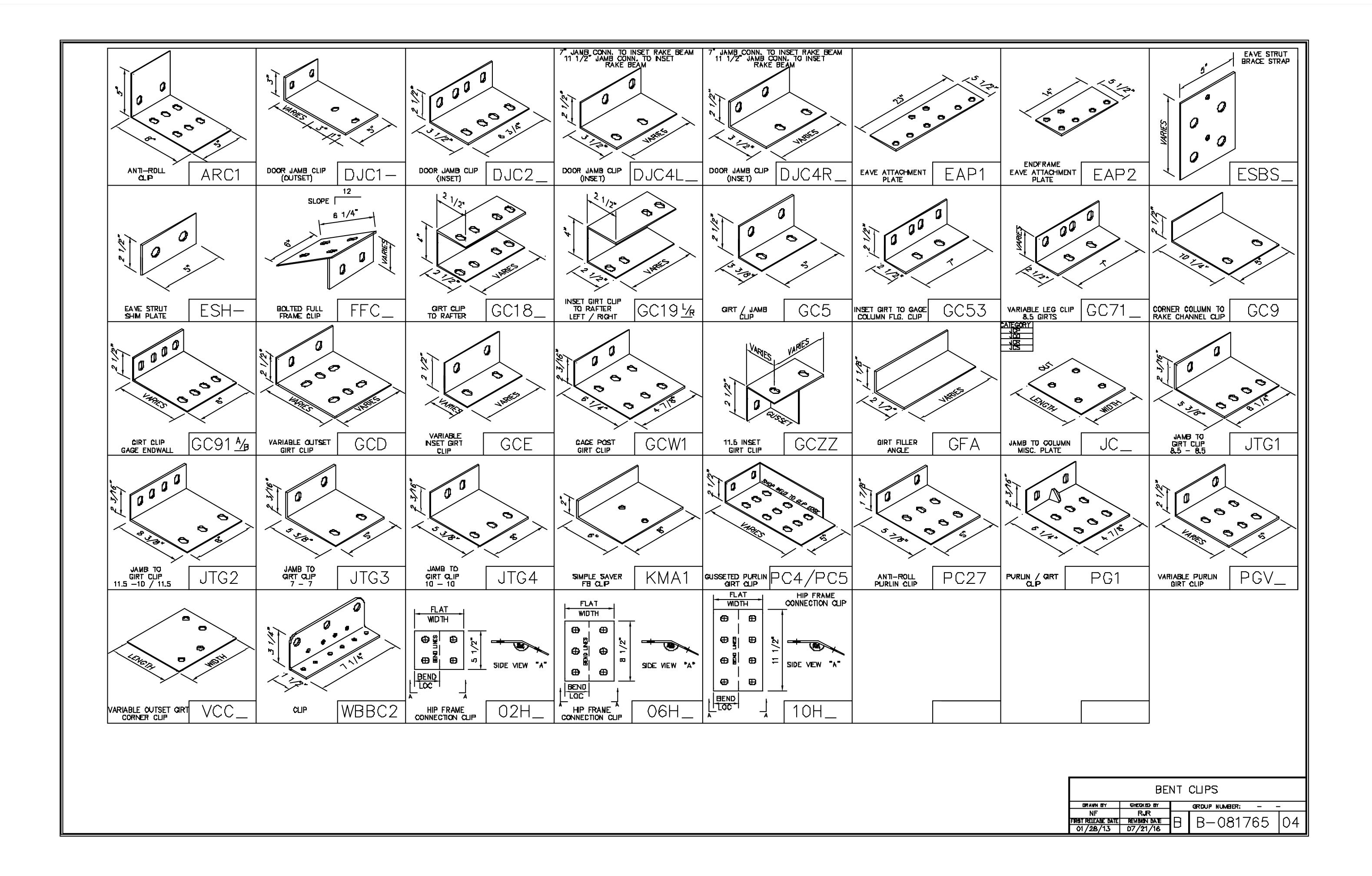
02/26/10 | 02/26/20

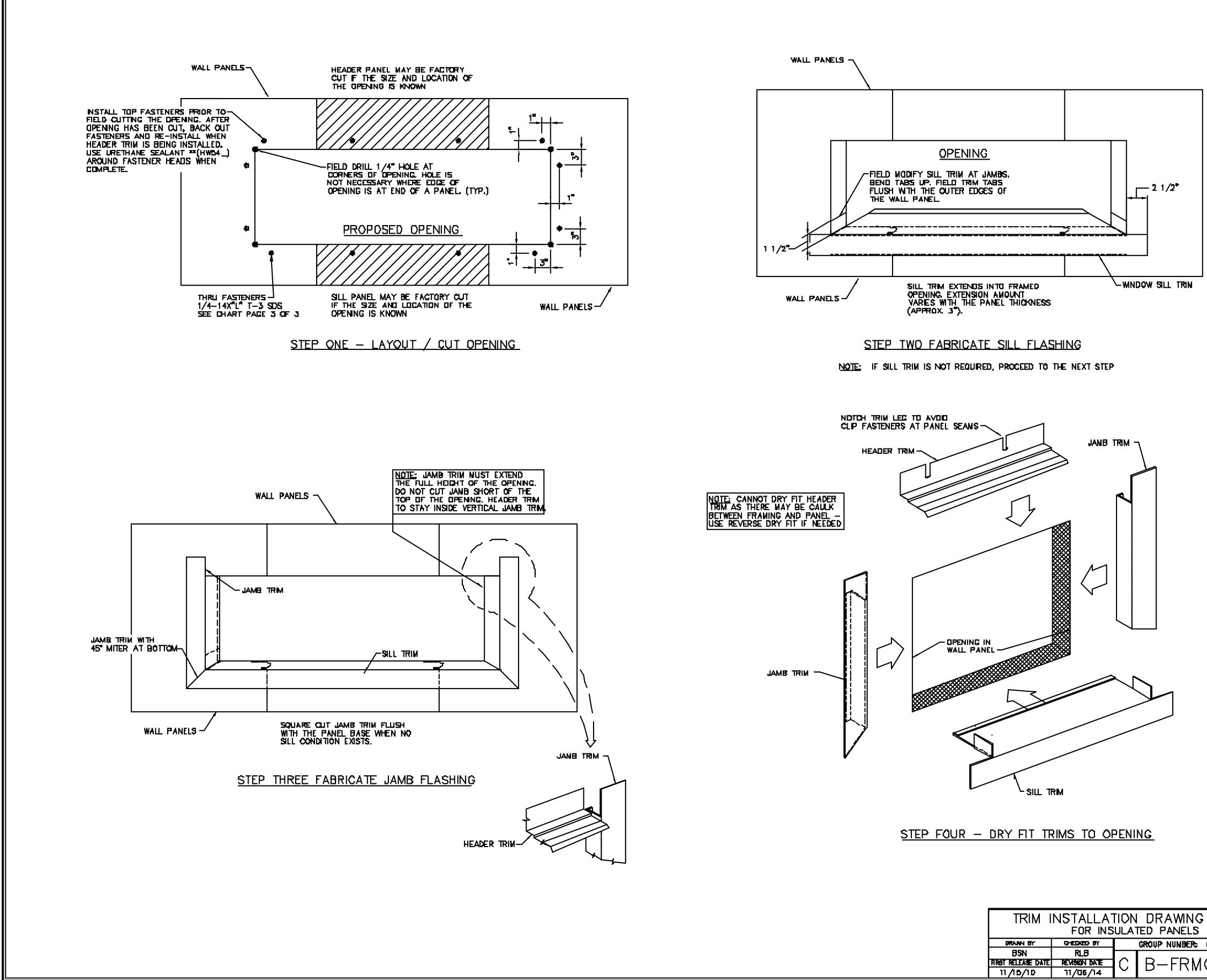
- 8. HANGER DESIGN IS NOT THE RESPONSIBILITY OF BLUESCOPE.
- WALKED ON.

- 13. DO NOT WELD ANY PART OF THE Z-PURLIN.

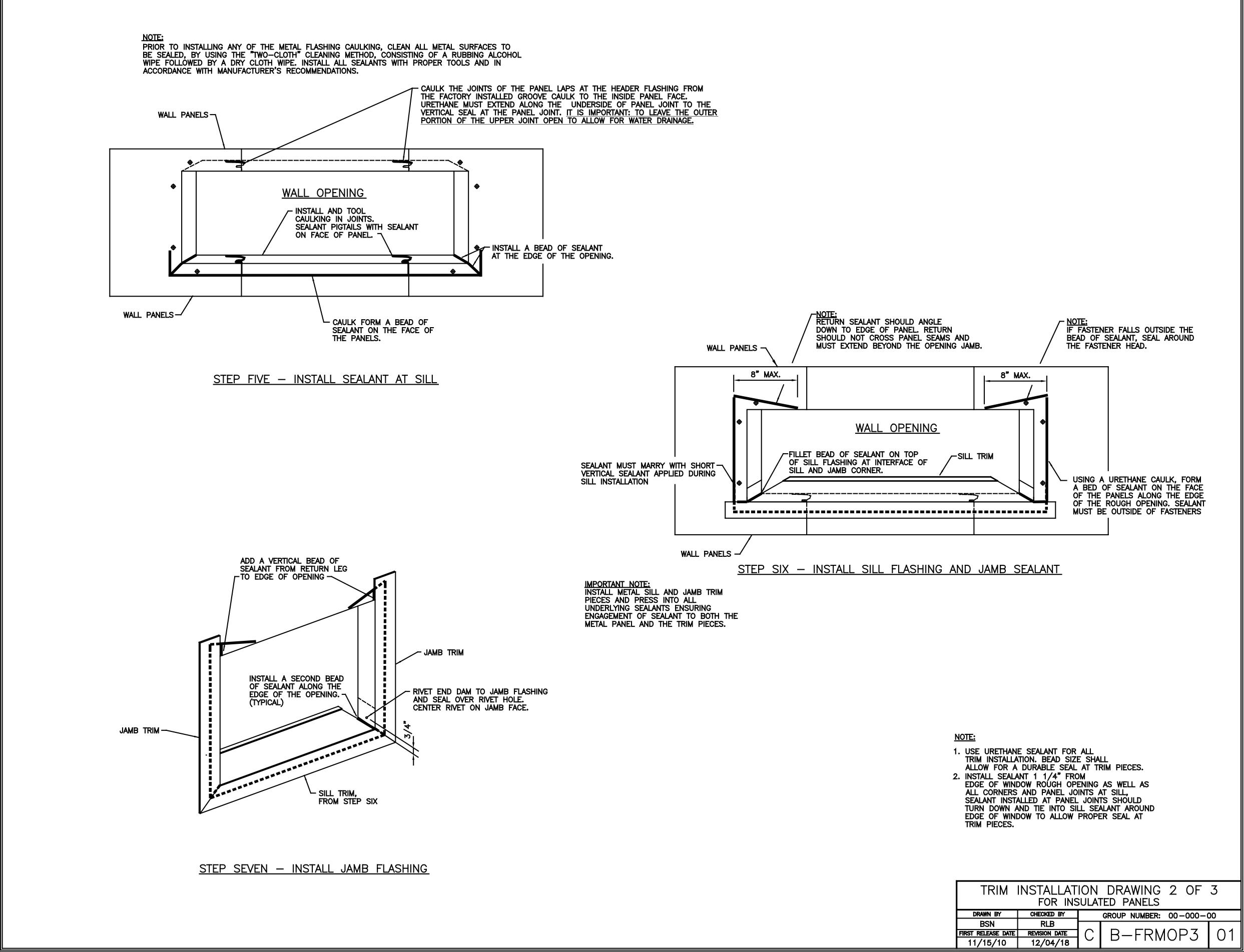


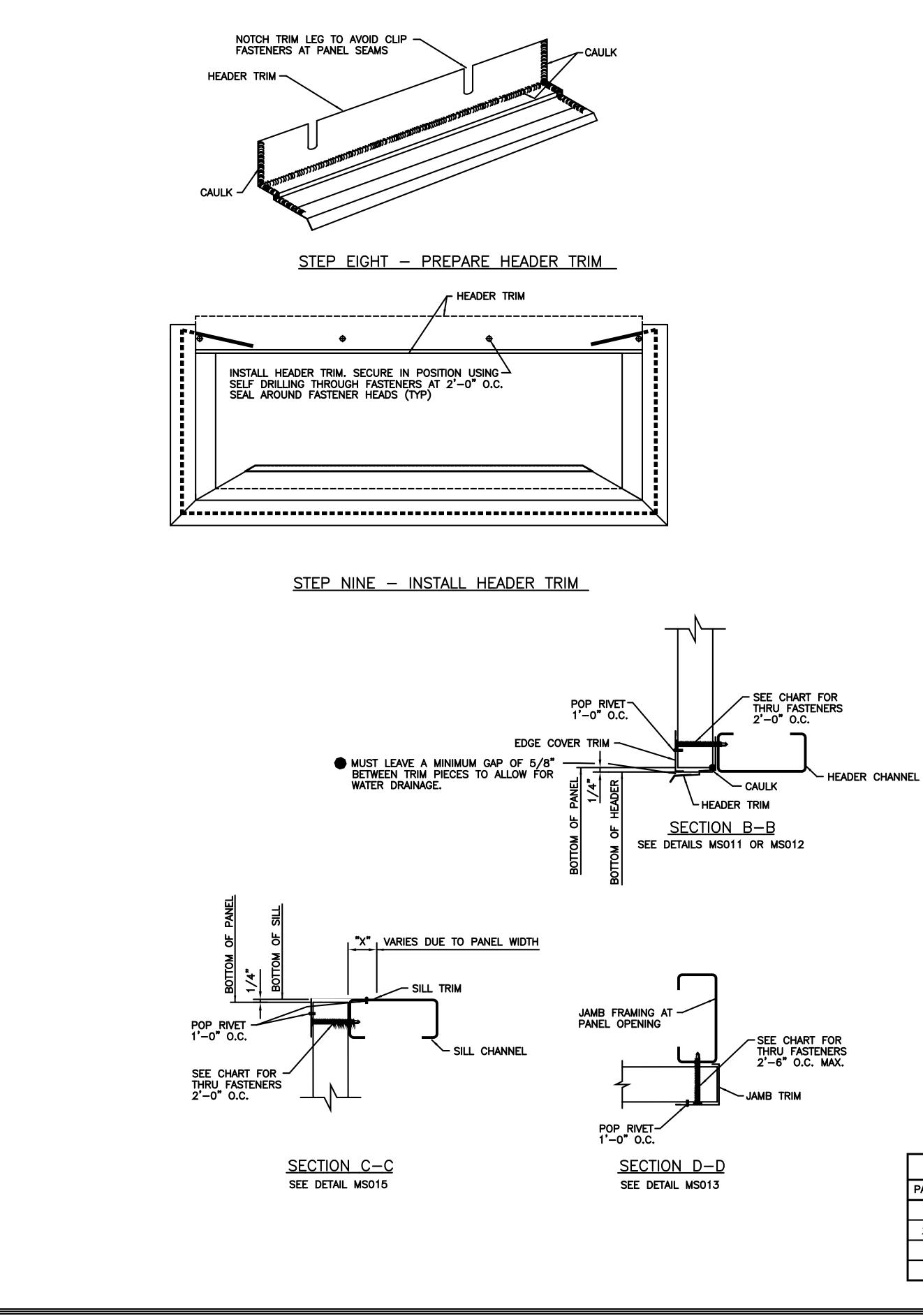
INSULATED PANEL GENERAL INSTALLATION							
	DRAWN BY	CHECKED BY	GROUP NUMBER: 33-031-01				
	BSN	RLB					
	FIRST RELEASE DATE	REVISION DATE	R	B-081517	$ \cap 4 $		
	12/20/10	12/04/18					

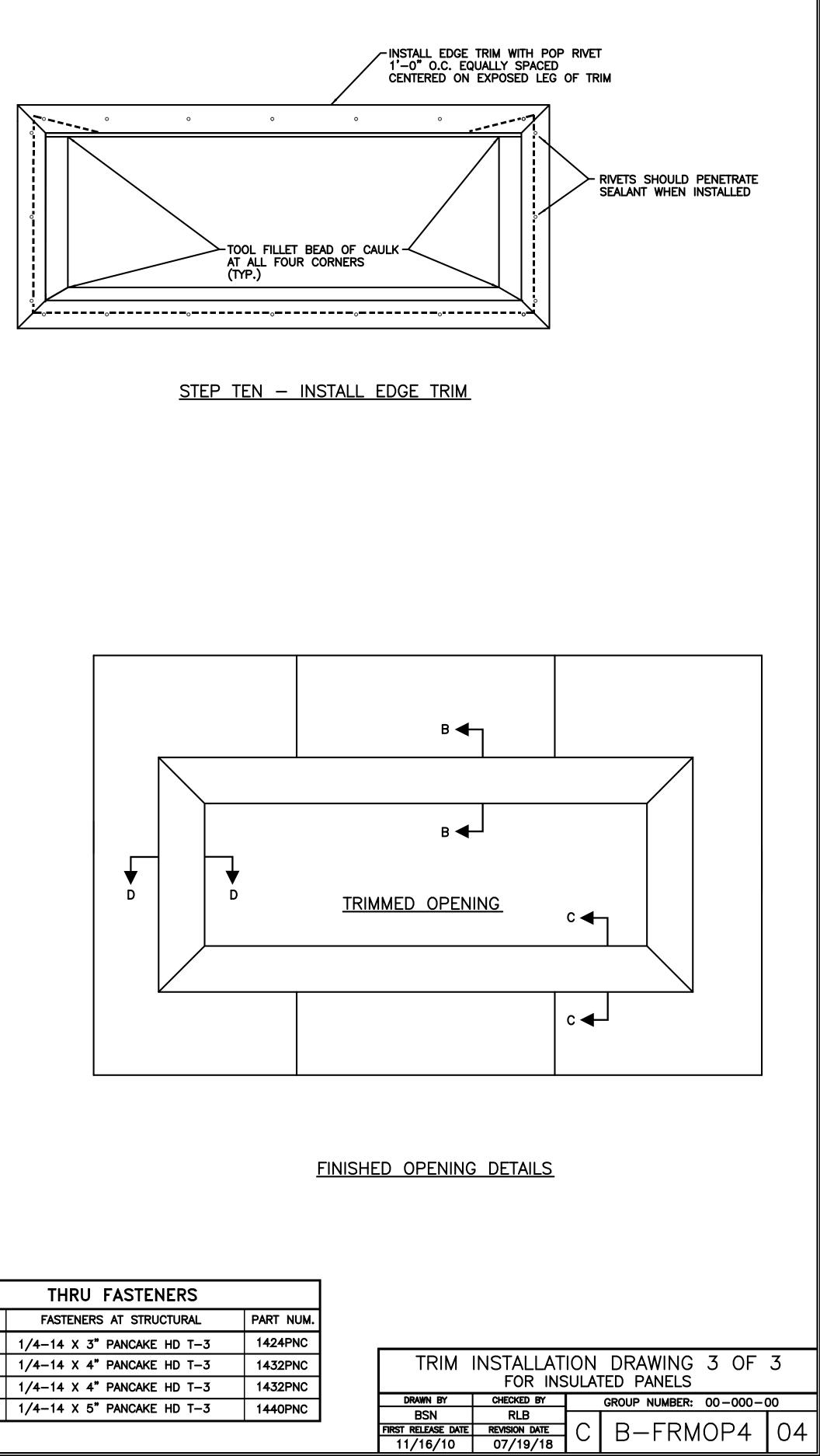


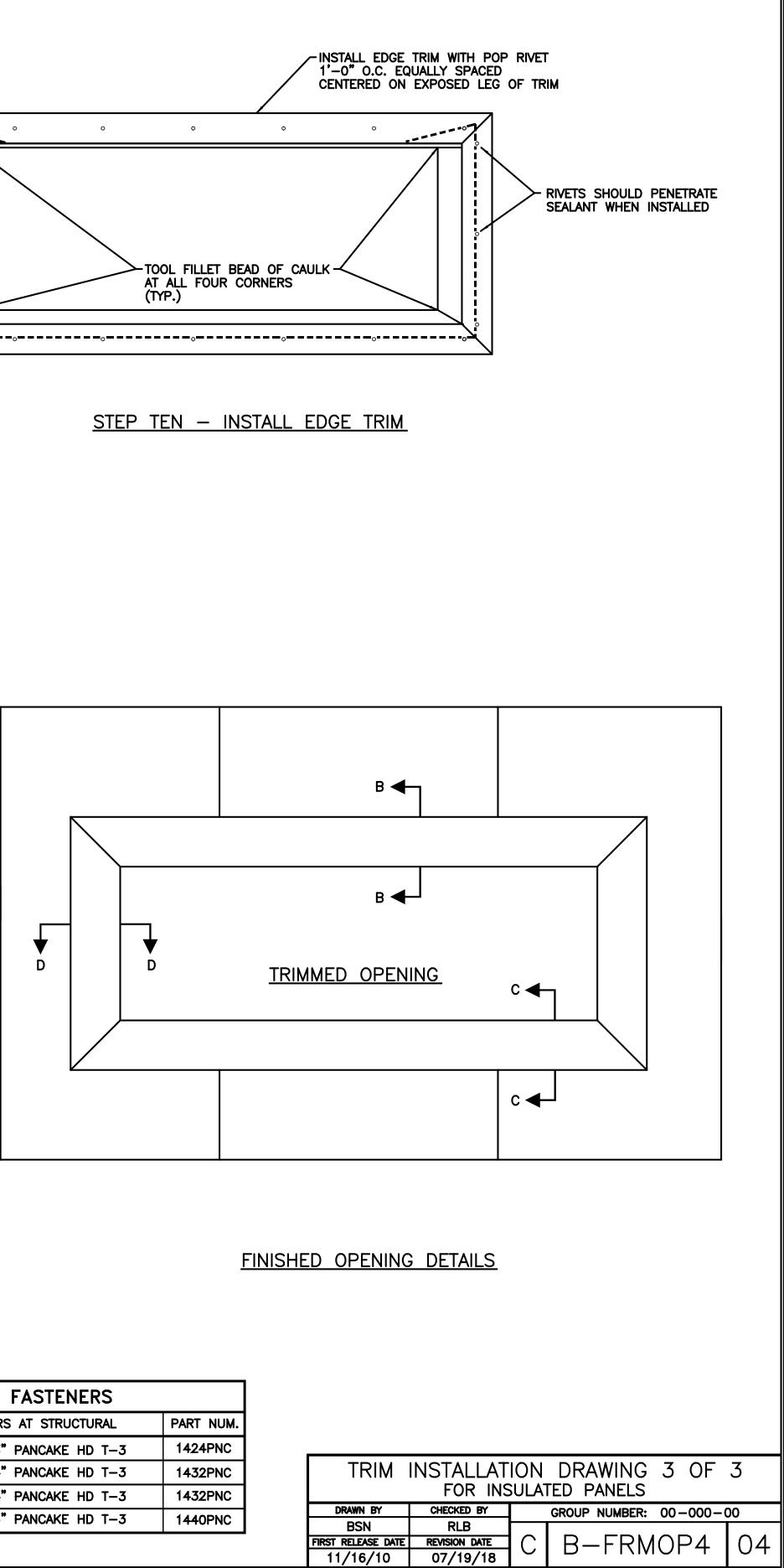


TRIM I	NSTALLA ⁻	TION	DRAWING 1 OF	3				
	FOR INSULATED PANELS							
DRAMN BY	GHEDKED BY		GROUP NUNBER: DO-DOD-1	Σ				
B\$N	RLB							
FIRST RELEASE DATE	REVISION DATE		B-FRMOP2	102				
11/15/10	11/06/14	\sim						

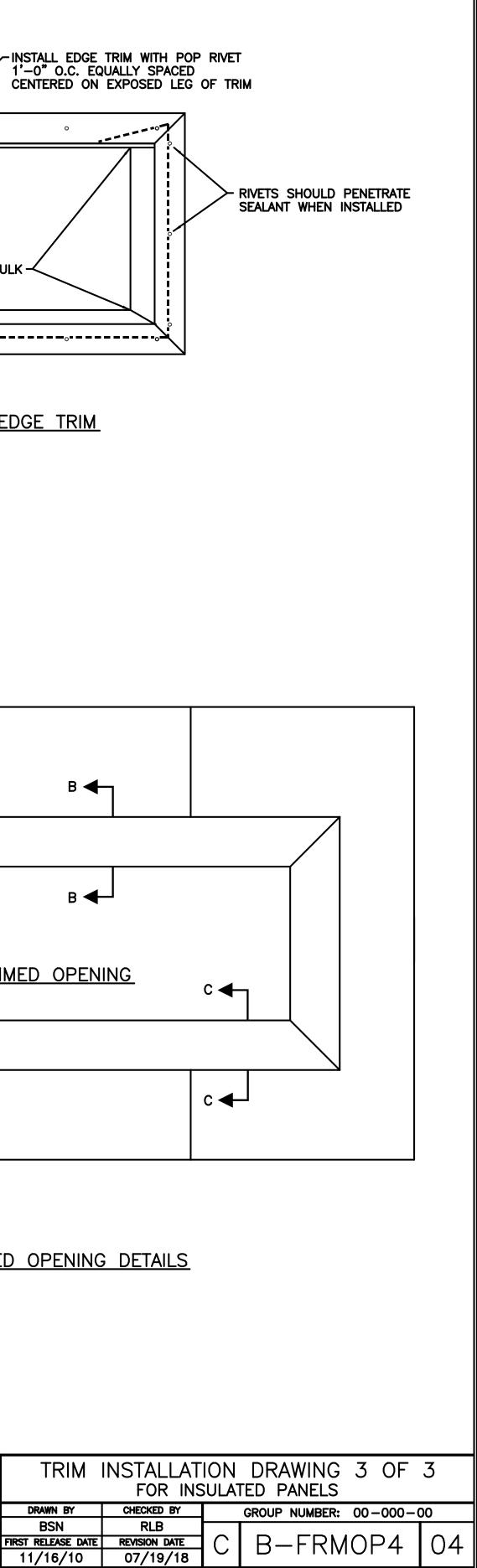


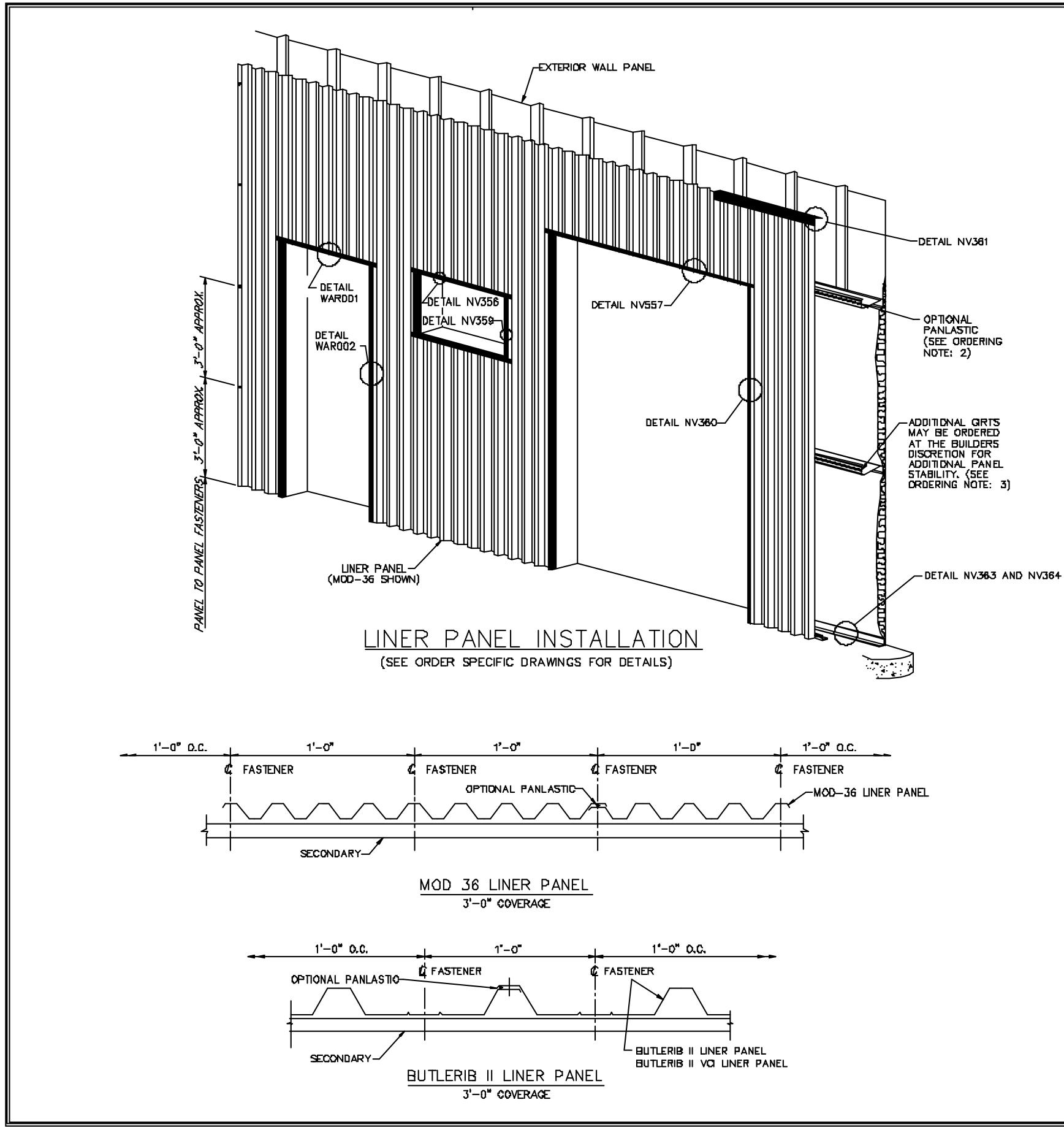






PANEL THK.	FASTENERS AT STRUCTURAL	PART NUM.
2"	1/4–14 X 3" PANCAKE HD T–3	1424PNC
2 1/2"	1/4–14 X 4" PANCAKE HD T–3	1432PNC
3"	1/4–14 X 4" PANCAKE HD T–3	1432PNC
4"	1/4–14 X 5" PANCAKE HD T–3	1440PNC





TRIM FASTENER OPTIONS							
PART NUMBER	DESCRIPTION	HOLE SIZE	COLOR				
097580 XXX	BLIND RIVET	9/64" DIA.	SEE DRAWING P-081764				
097216	SELF DRILLING SCREW		BLACK				
097295	SELF DRILLING SCREW		ALZN				

ORDERING NOTES:

- COLUMNS, AND ACCESSORIES.

- 4. FIELD WORK REQUIRED FOR ALL OPENINGS.

ERECTION NOTES:

- 5. FIELD WORK REQUIRED FOR ALL OPENINGS.

1. DETERMINE AREA TO RECEIVE LINER PANEL AND STUDY THE DETAILS ON ORDER SPECIFIC DRAWINGS OF THE VARIOUS CONDITIONS APPLICABLE TO YOUR BUILDING. THESE DETAILS ARE SUGGESTIONS AND ARE INTENDED TO BE A STARTING POINT FROM WHICH OTHER SUITABLE APPLICATIONS MAY BE DERIVED. DETERMINE LINER PANEL LENGTH DESIRED, AND LENGTHS OF TRIM PARTS REQUIRED FOR CORNERS, POSTS, 2. IT IS RECOMMENDED THAT PANLASTIC (D25390) BE USED AT PANEL LAPS AND BETWEEN PANELS AND STRUCTURALS FOR SOUND DEADENING. ONE ROLL OF PANLASTIC CONTAINS 40 LINEAL FEET, PANLASTIC MUST BE ORDERED SEPARATELY. 3. AN ADDITIONAL GIRT MAY BE REQUIRED FOR ADDITIONAL STABILITY, PARTIAL HEIGHT WALLS OR WITH OVERHEAD DOORS TO SUPPORT THE LINER PANEL ABOVE THE DOOR HEADER. (FIELD HOLES IN COLUMN WILL BE REQUIRED). FOR CLIPS AND BOLTS REQUIRED TO ATTACH ADDITIONAL GIRTS, REFER TO STANDARD GIRT CONNECTION FOR PANEL TO PANEL FASTENER AND #12-14 X 1 1/4 TORX T-30 SELF DRILLING SCREW DETAILS. 1. INSTALL LINER PANEL AFTER INSTALLATION OF GIRTS, EXTERIOR WALL PANELING, DOORS, AND OTHER WALL ACCESSORIES. 2. INTERIOR FLANGE OF GIRT IS UNPUNCHED FOR WALL LINER APPLICATION. EMC PROVIDES 1/4-14 × 3/4" TORX T-3D SELF DRILLING SCREW (097364) FOR PANEL TO PANEL FASTENER AND #12-14 × 1 1/4" TORX T-3D SELF DRILLING SCREW (DB7365) FOR THE PANEL TO STRUCTURAL FASTENER. 3. BECAUSE PANELS ARE UNPUNCHED, "CREEPING" MAY OCCUR DURING INSTALLATION. BE SURE TO CHECK FOR PANEL MODULARITY AND SQUARENESS. 4. TO AVOID DIMPLING OF THE TRIM PARTS, FASTENER SPACING FOR TRIM ATTACHMENT SHOULD ALIGN WITH WALL LINER CORRUGATIONS. LINER PANEL INSTALLATION ALL WALLS/MOD-36 AND BUTLERIB II

Checked By

TRST RELEASE DATE REVISION DATE B P-080234

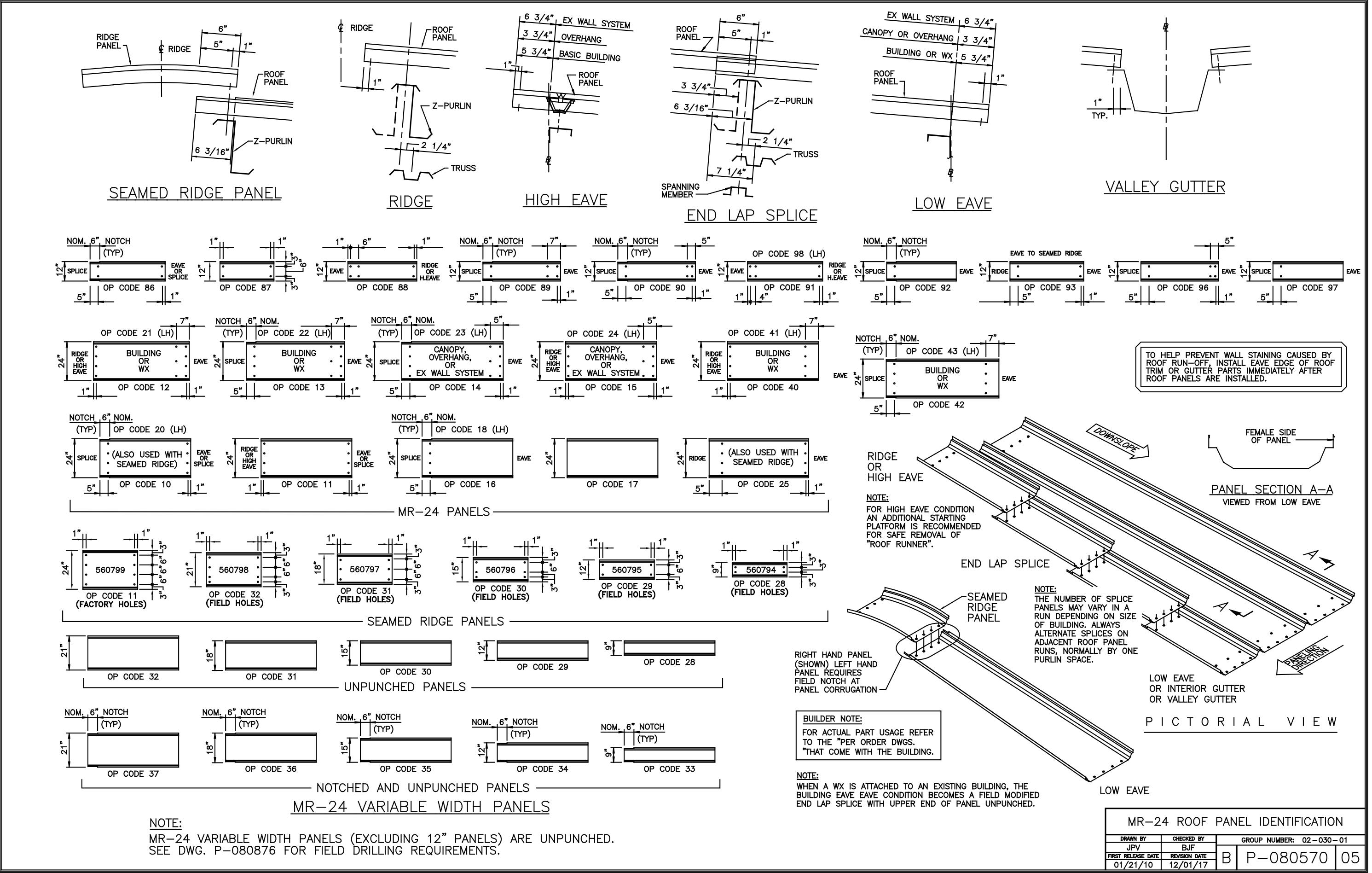
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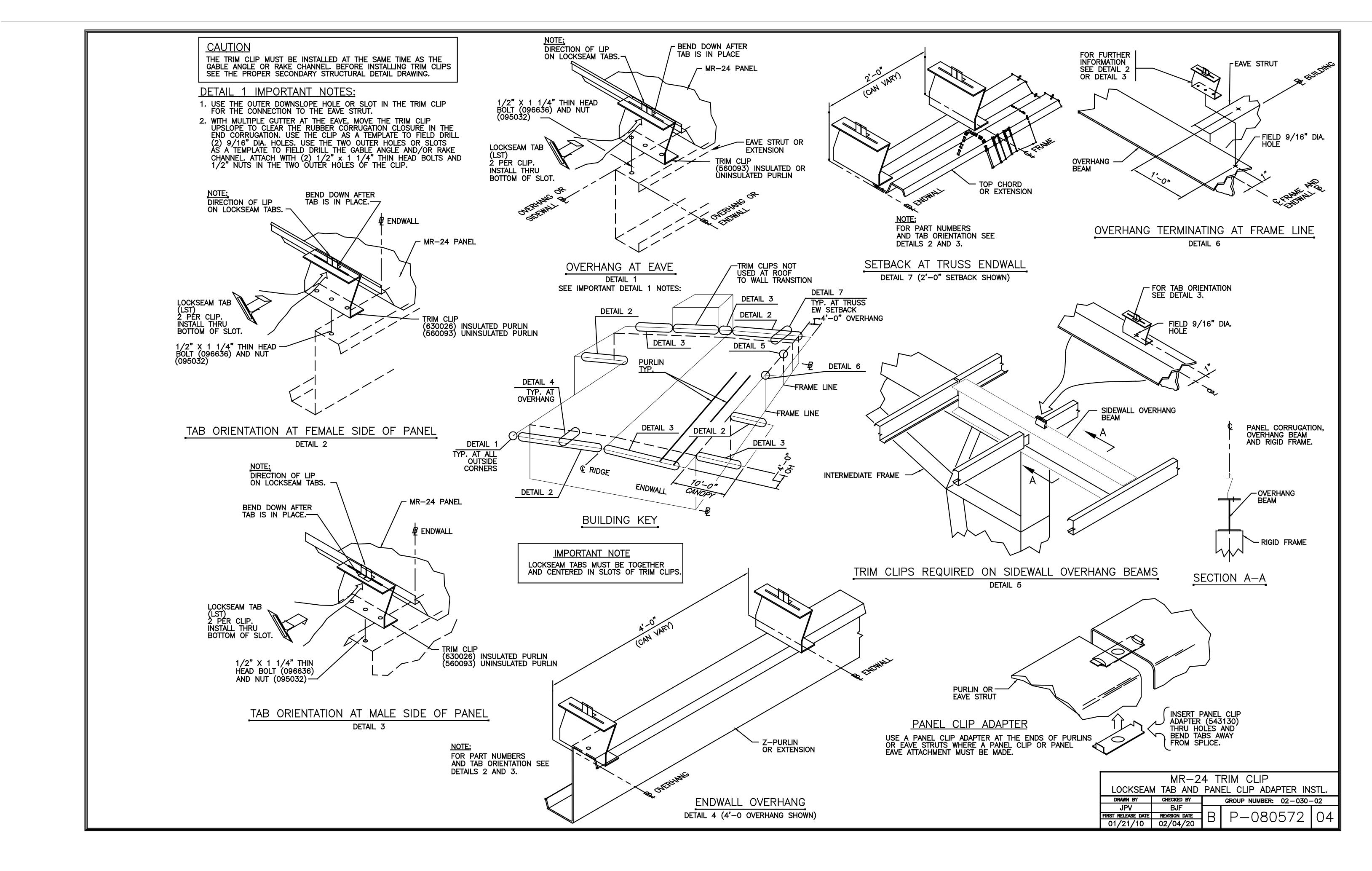
GROUP NUMBER: 28 - 031 - 01

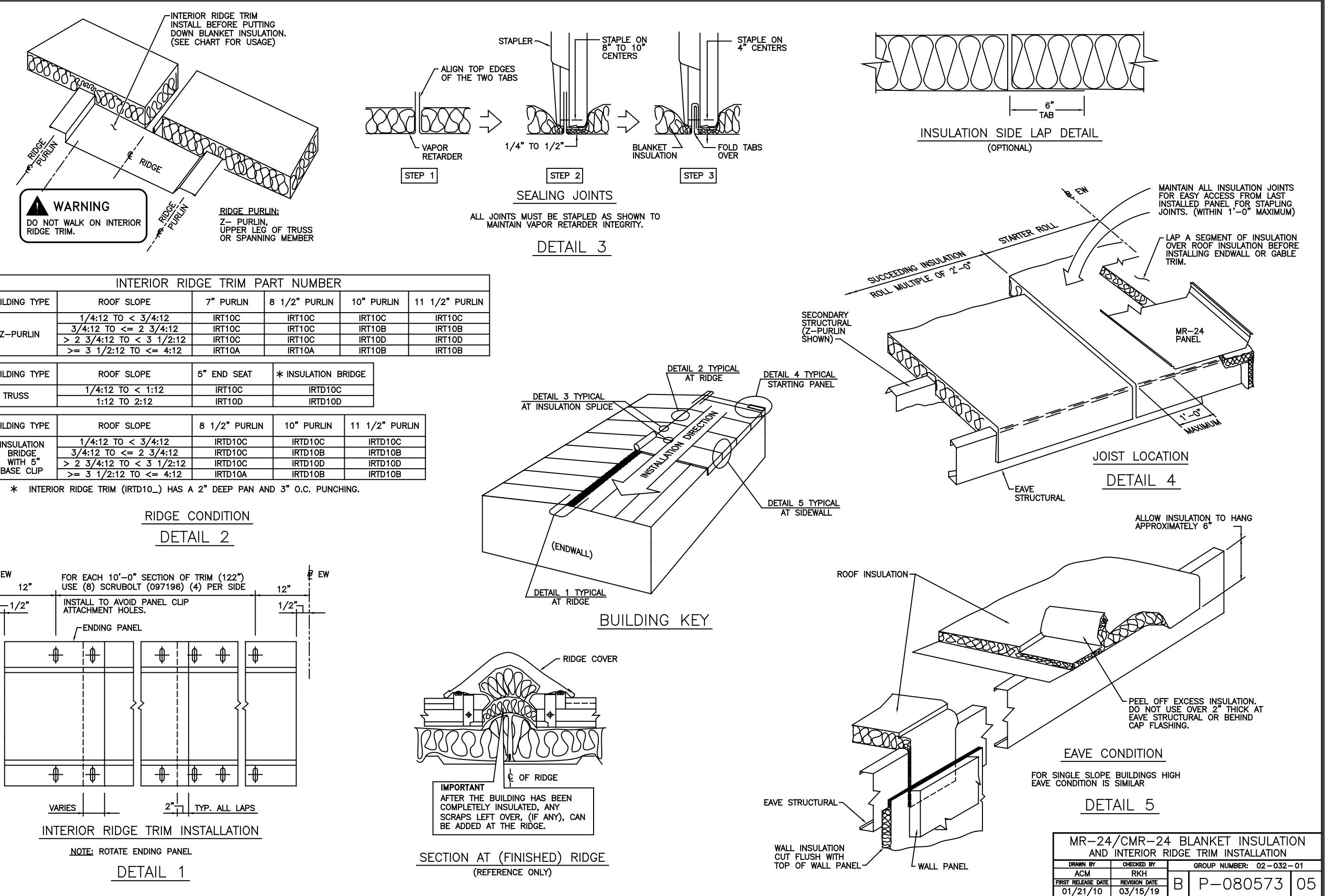
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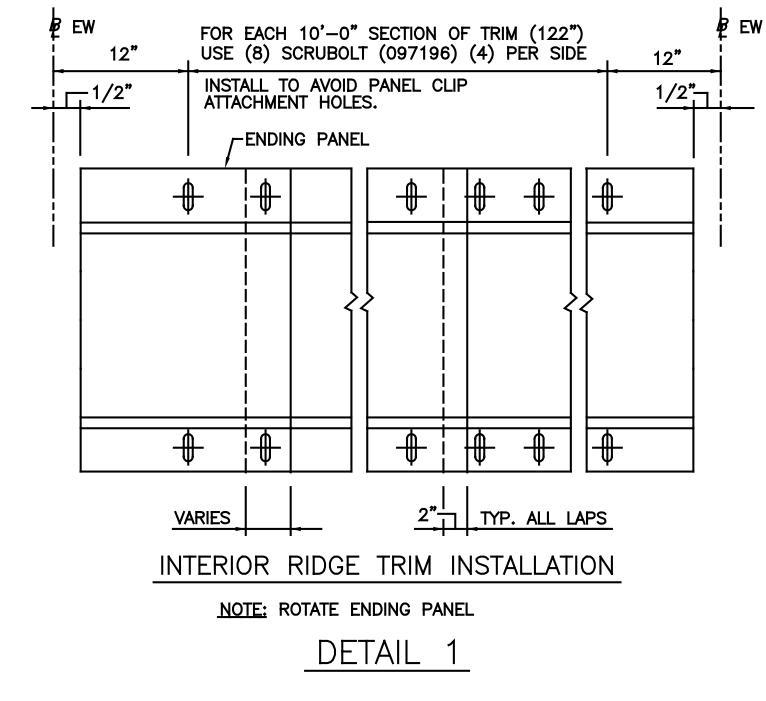


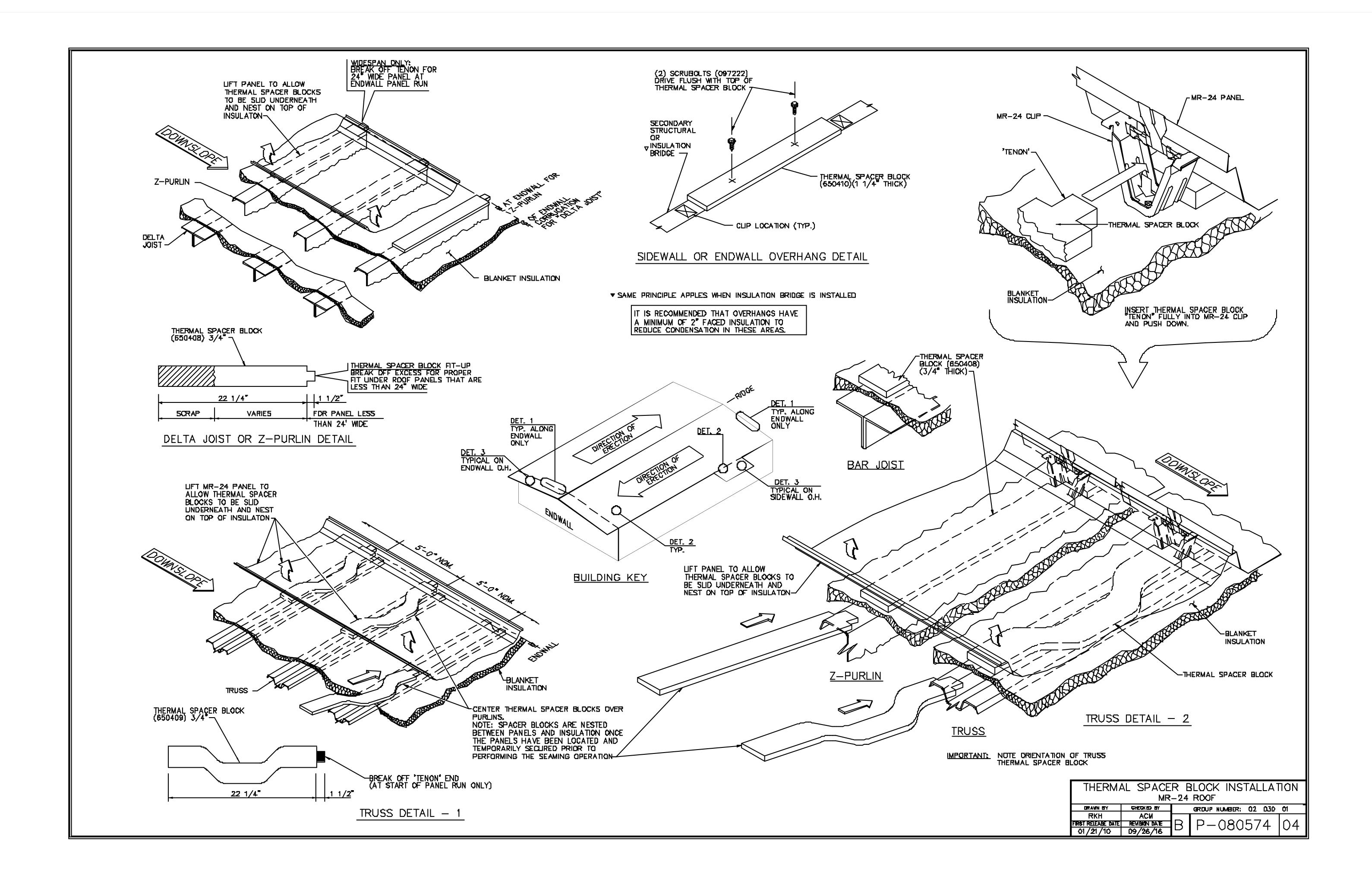


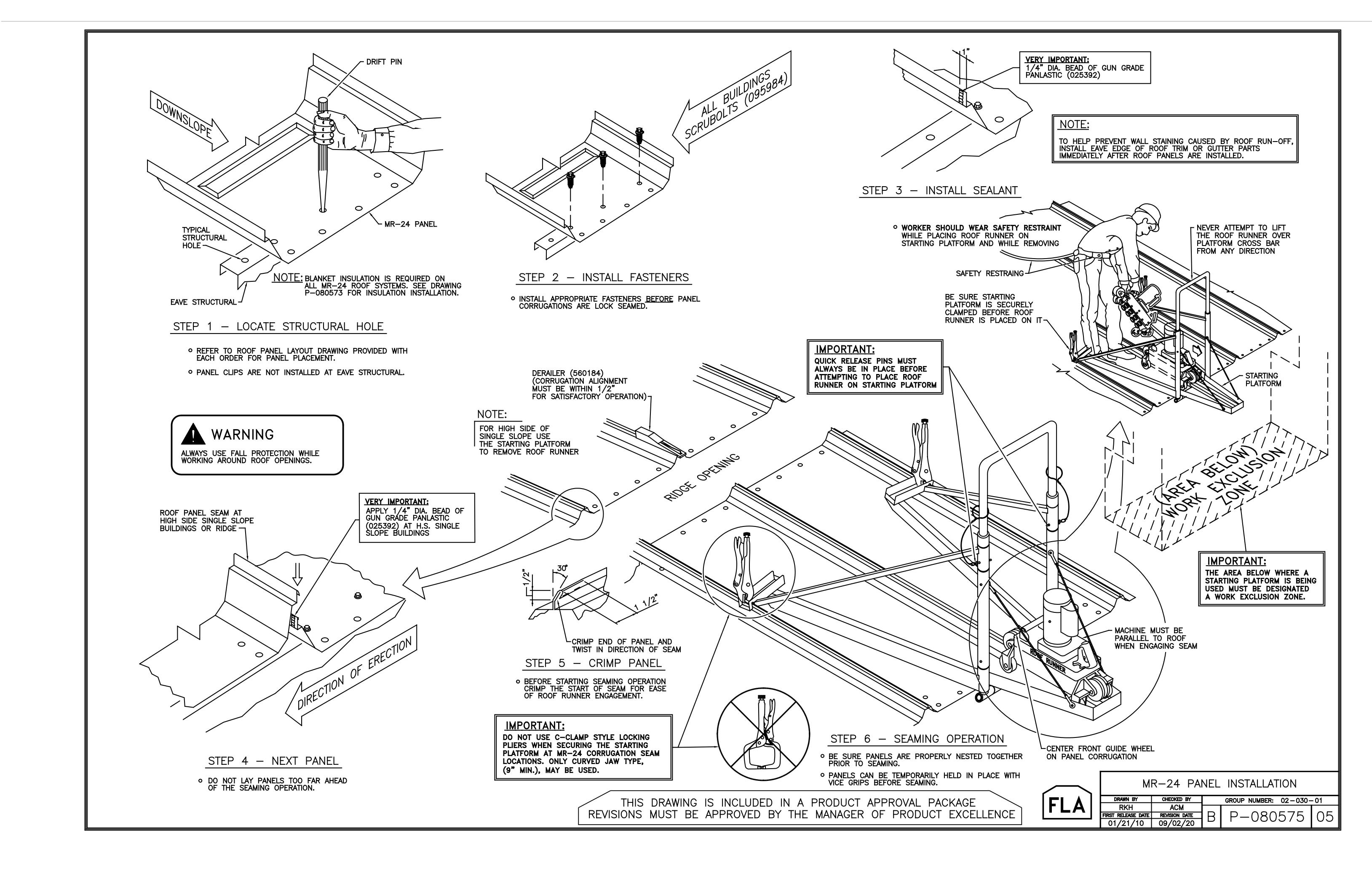


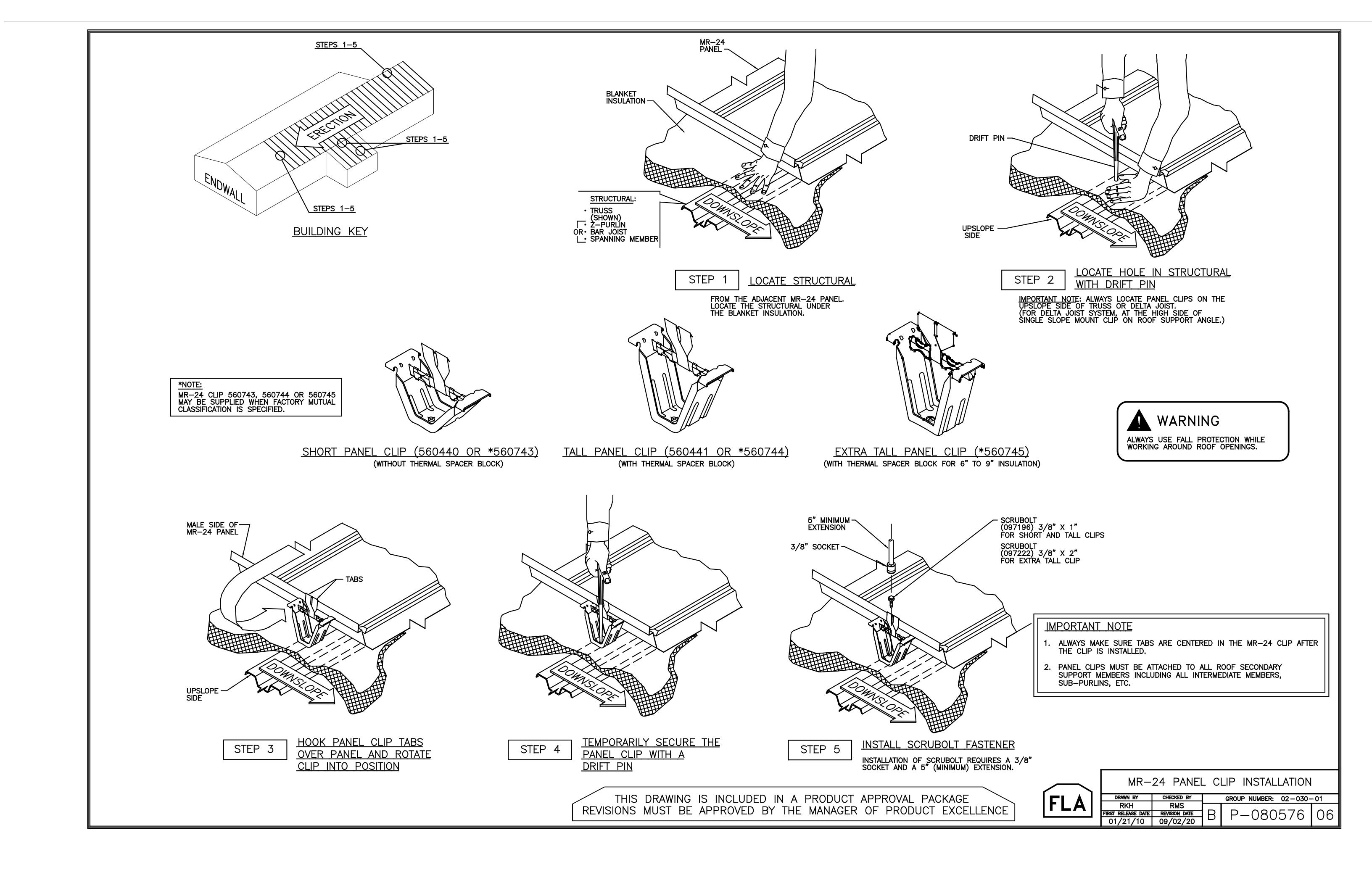
	INTERIOR RI	DGE TRIM PA	ART NUMBER	
BUILDING TYPE	ROOF SLOPE	7" PURLIN	8 1/2" PURLIN	10" PU
	1/4:12 TO < 3/4:12	IRT10C	IRT10C	IRT10
Z-PURLIN	3/4:12 TO <= 2 3/4:12	IRT10C	IRT10C	IRT10
	> 2 3/4:12 TO < 3 1/2:12	IRT10C	IRT10C	IRT10
	>= 3 1/2:12 TO <= 4:12	IRT10A	IRT10A	IRT10
	-			
BUILDING TYPE	ROOF SLOPE	5" END SEAT	* INSULATION E	
TDUCC	1/4:12 TO < 1:12	IRT10C	IRTD10C	
TRUSS	1:12 TO 2:12	IRT10D	IRTD10D)
BUILDING TYPE	ROOF SLOPE	8 1/2" PURLIN	10" PURLIN	11 1/2
INSULATION	1/4:12 TO < 3/4:12	IRTD10C	IRTD10C	IRTI
BRIDGE	3/4:12 TO <= 2 3/4:12	IRTD10C	IRTD10B	IRTI
· WITH 5"	> 2 3/4:12 TO < 3 1/2:12	IRTD10C	IRTD10D	IRTI
BASE CLIP	>= 3 1/2:12 TO <= 4:12	IRTD10A	IRTD10B	IRTI

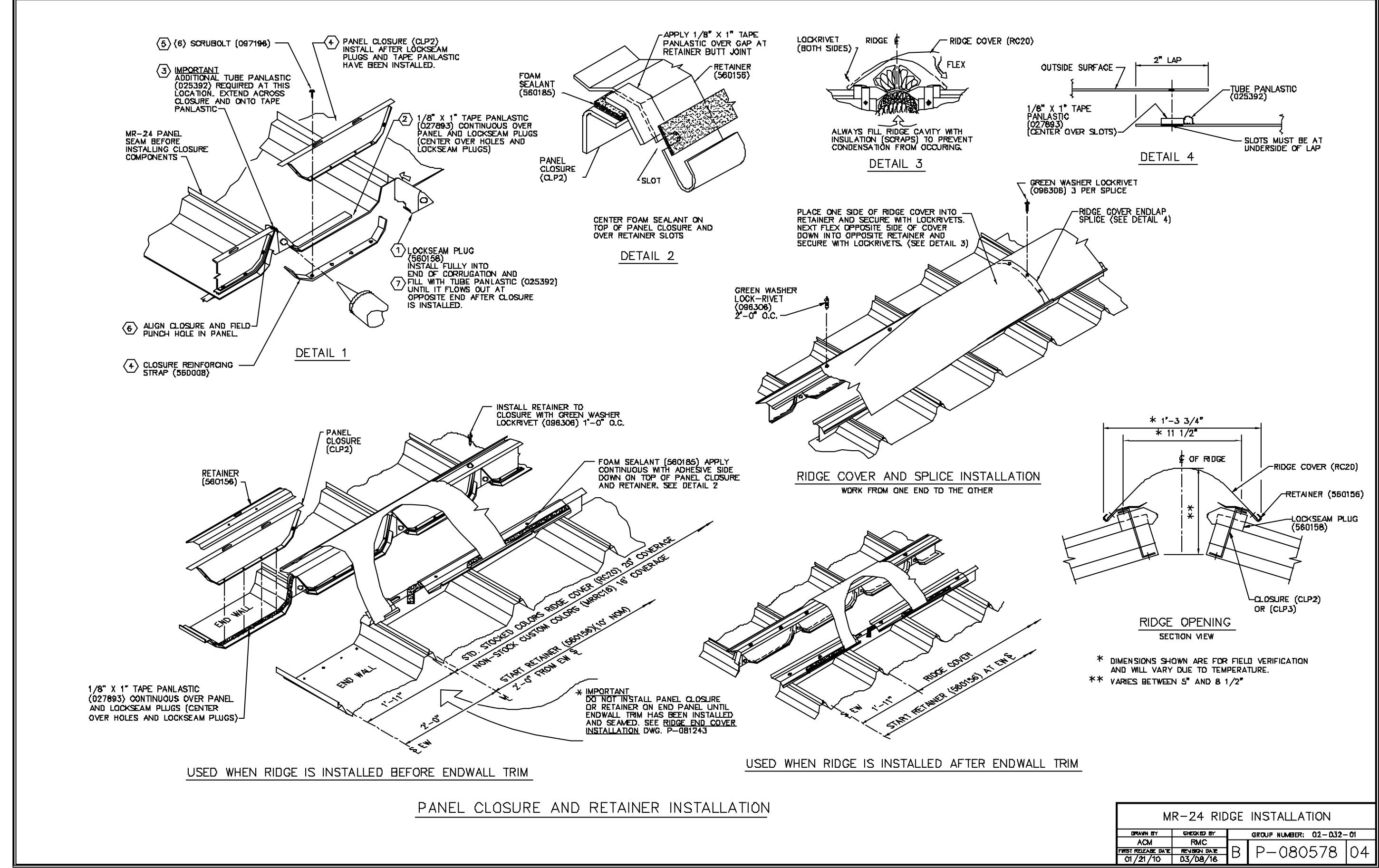
RIDGE	CON	DITION
DE	ΓAIL	2

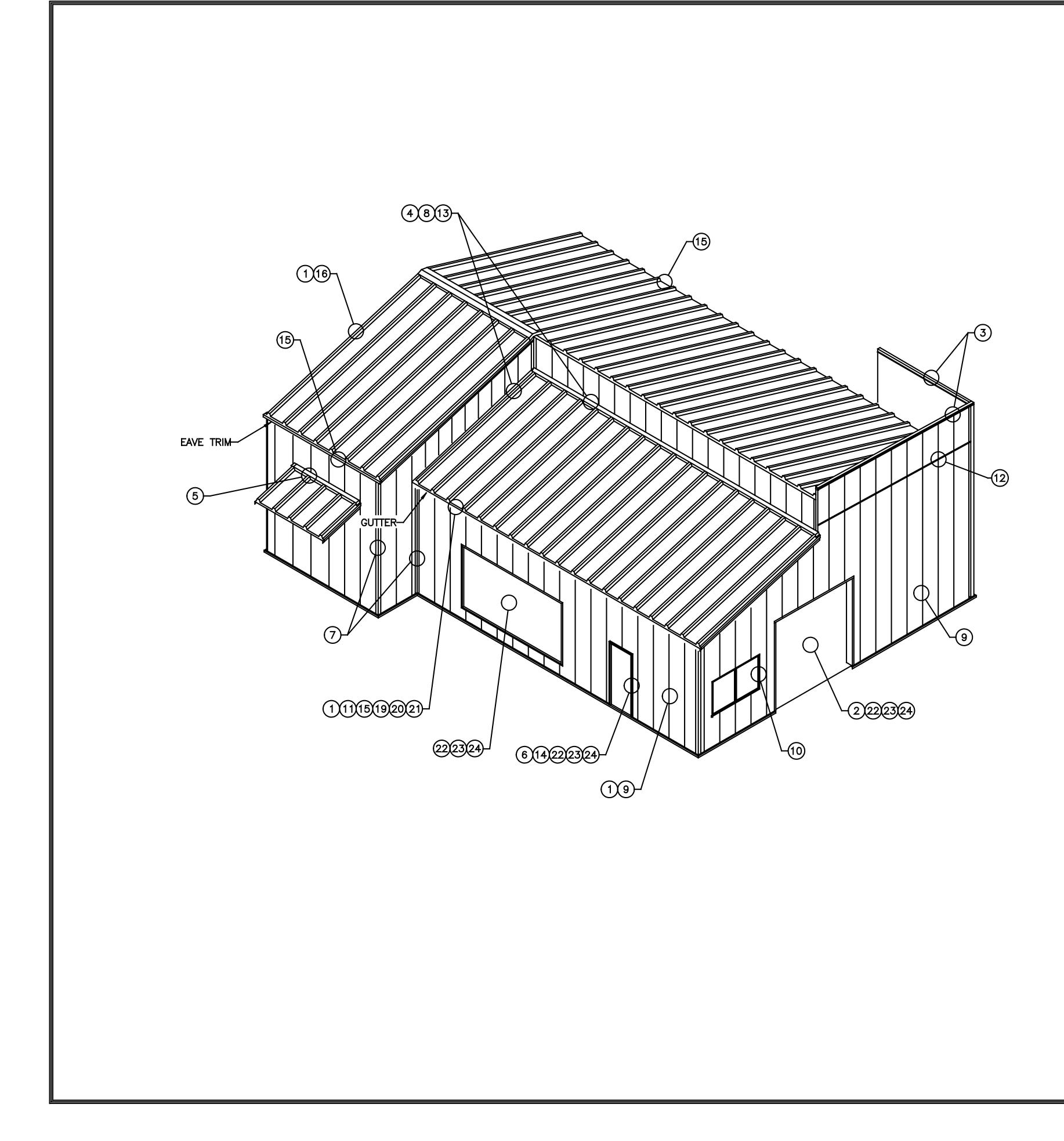










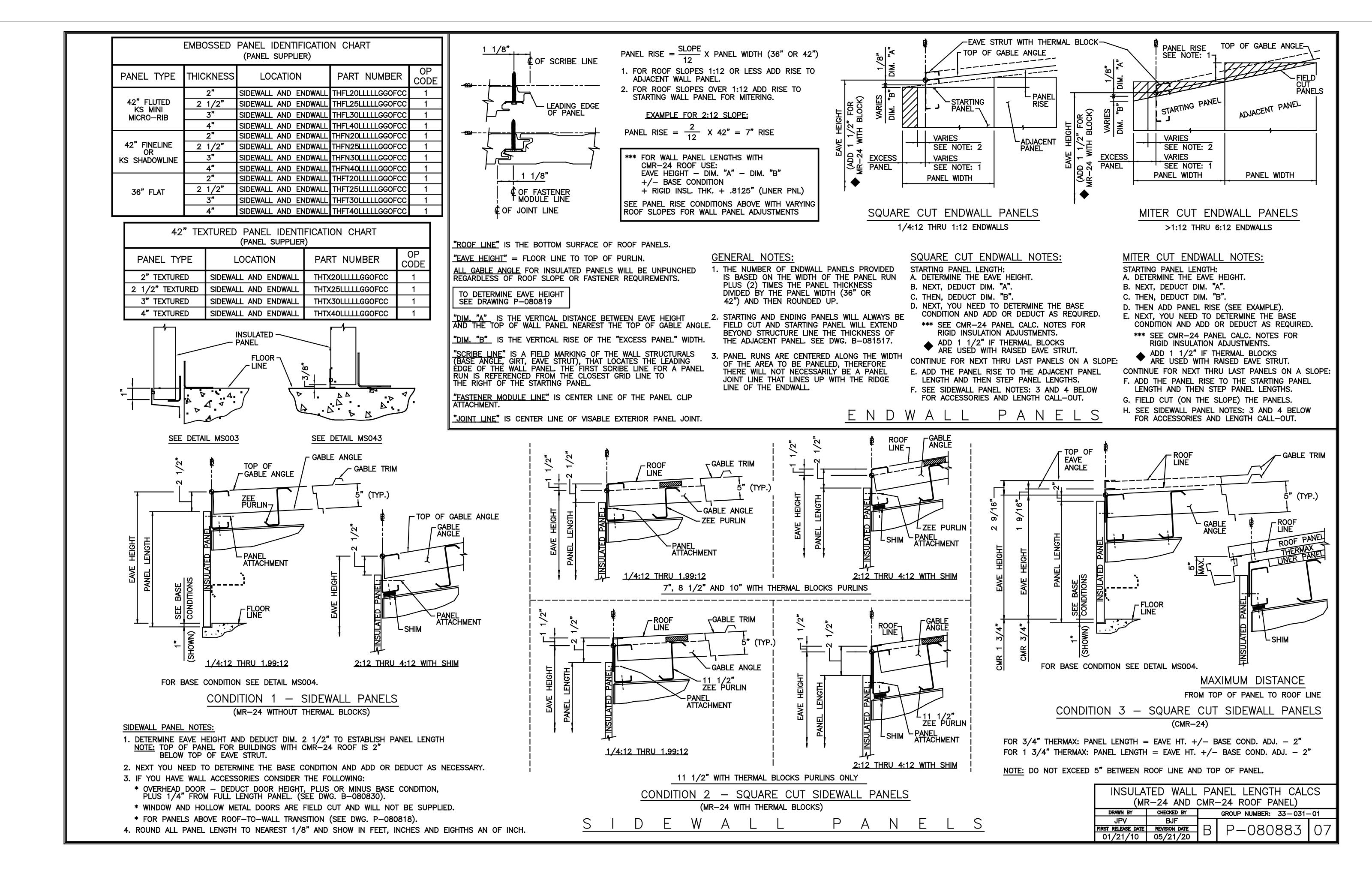


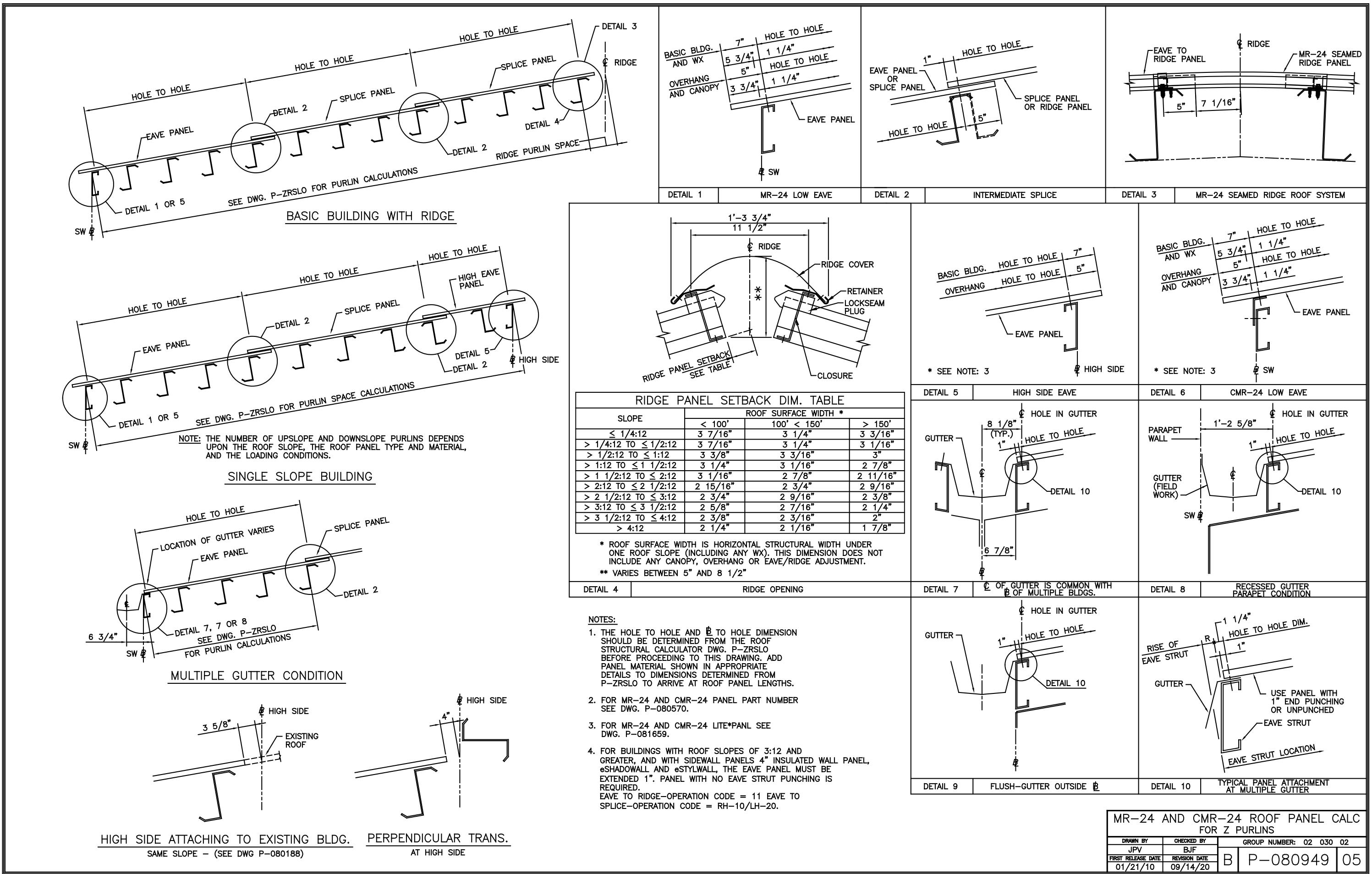
		INSULATED WALL PANEL DRAWINGS AND DETAILS
ITEM	DRAWING NUMBER	DRAWING TITLE
1	P-080883	INSULATED WALL PANEL LENGTH CALCULATIONS
2	B-080830	OVERHEAD DOOR INSTALLATION
3	B-080836	INSULATED WALL PANEL – PARAPET INSTALLATION
4	P-080886	WALL PANEL INSTL. – BRII ROOF TO WALL TRANS. – INSULATED WALL PANEL
5	P-081370	ROOF-WALL CANOPY FLASHING DETAILS AT BELOW EAVE
6	B-081379	HOLLOW METAL DOOR - PANEL AND TRIM INSTALLATION
7	B-081398	CORNER TRIM INSTALLATION
8	P-081611	WALL PANEL INSTL. – MR-24/CMR-24 ROOF TO WALL TRANS. – INSULATED WALL PANEL
9	B-081517	GENERAL PANEL INSTALLATION – INSULATED WALL PANEL
10	XXXXXXX	ERECTION DRAWINGS FOR WINDOW INSTALLATION WILL BE FURNISHED BY THE WINDOW SUPPLIER
11	P-080091	ALL BLDGS. – WIDE CTR. GUTTER/CONDUCT. PIPE INSTL. & DETAILS
12	SEE DETAILS	STACKED JOINT DETAILS MS019 AND MS020
13	P-080818	ALL BLDGS, - WALL PANEL CALC, - ROOF TO WALL TRANSITIONS
14	P-081380	EXPI-DOOR - GIRT CONNECTION AT 6'-0" OR LESS
15	P-105017	INSULATION – TOP OF WALL – SIDEWALL
16	P-105018	INSULATION - TOP OF WALL - ENDWALL
19	P-105224	CONDUCTOR PIPE INSTALLATION
20	P-105225	CONDUCTOR PIPE DETAILS
21	P-105228	ALL BLDGS. – CONDUCTOR PIPE DETAILS
22	B-FRMOP2	TRIM INSTALLATION FOR FRAMED OPENING 1 OF 3
23	B-FRMOP3	TRIM INSTALLATION FOR FRAMED OPENING 2 OF 3
24	B-FRMOP4	TRIM INSTALLATION FOR FRAMED OPENING 3 OF 3

NOTE:

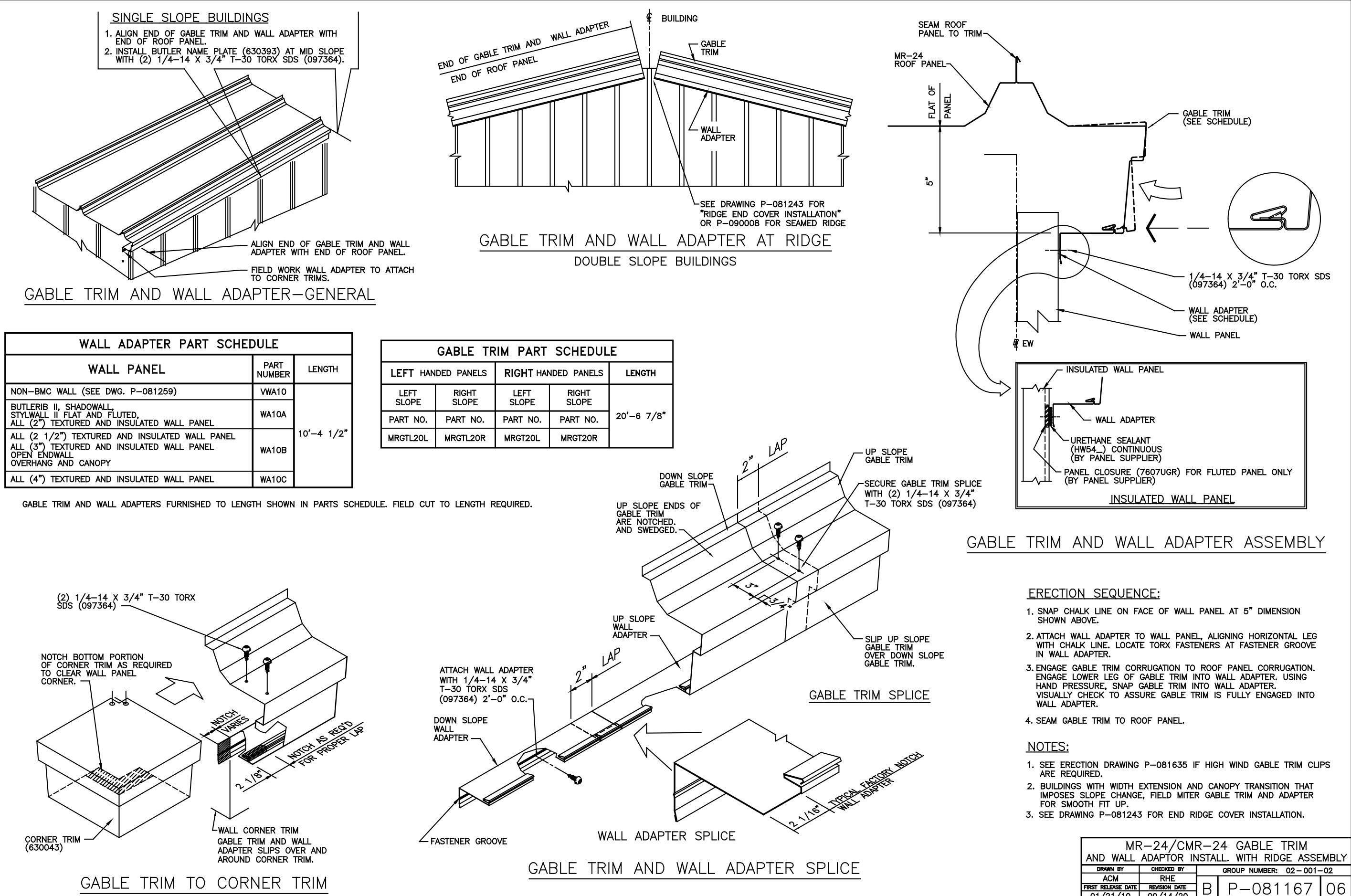
ONLY THOSE DRAWINGS REQUIRED SPECIFICALLY ON A GIVEN BUILDING ORDER WILL BE FURNISHED WITH THE ORDER.

INSULATED WALL PANEL DRAWING INDEX								
DRAWN BY	CHECKED BY	CHECKED BY GROUP NUMBER: 33 031 01						
BSN	RLB							
FIRST RELEASE DATE	REVISION DATE	R	P-080879 0	4				
02/17/11	09/14/20			I				



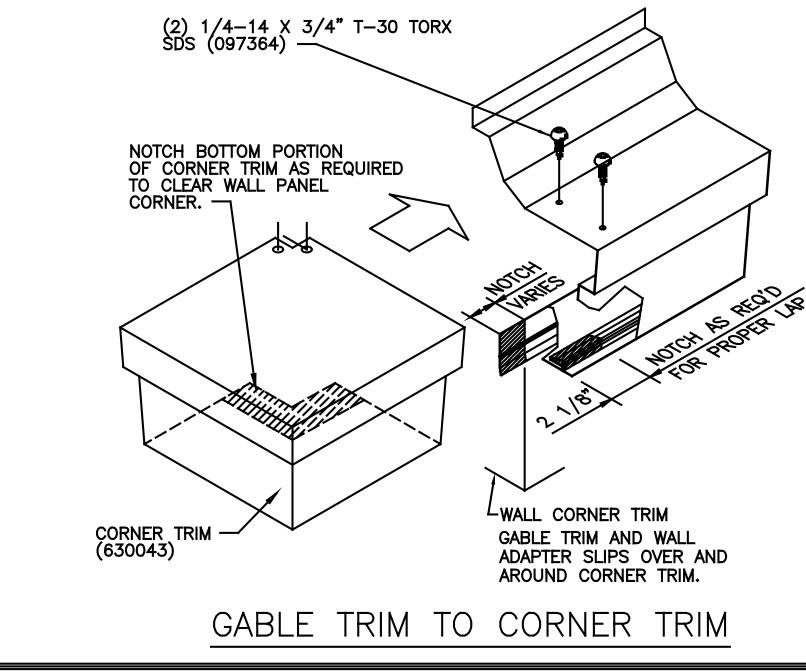


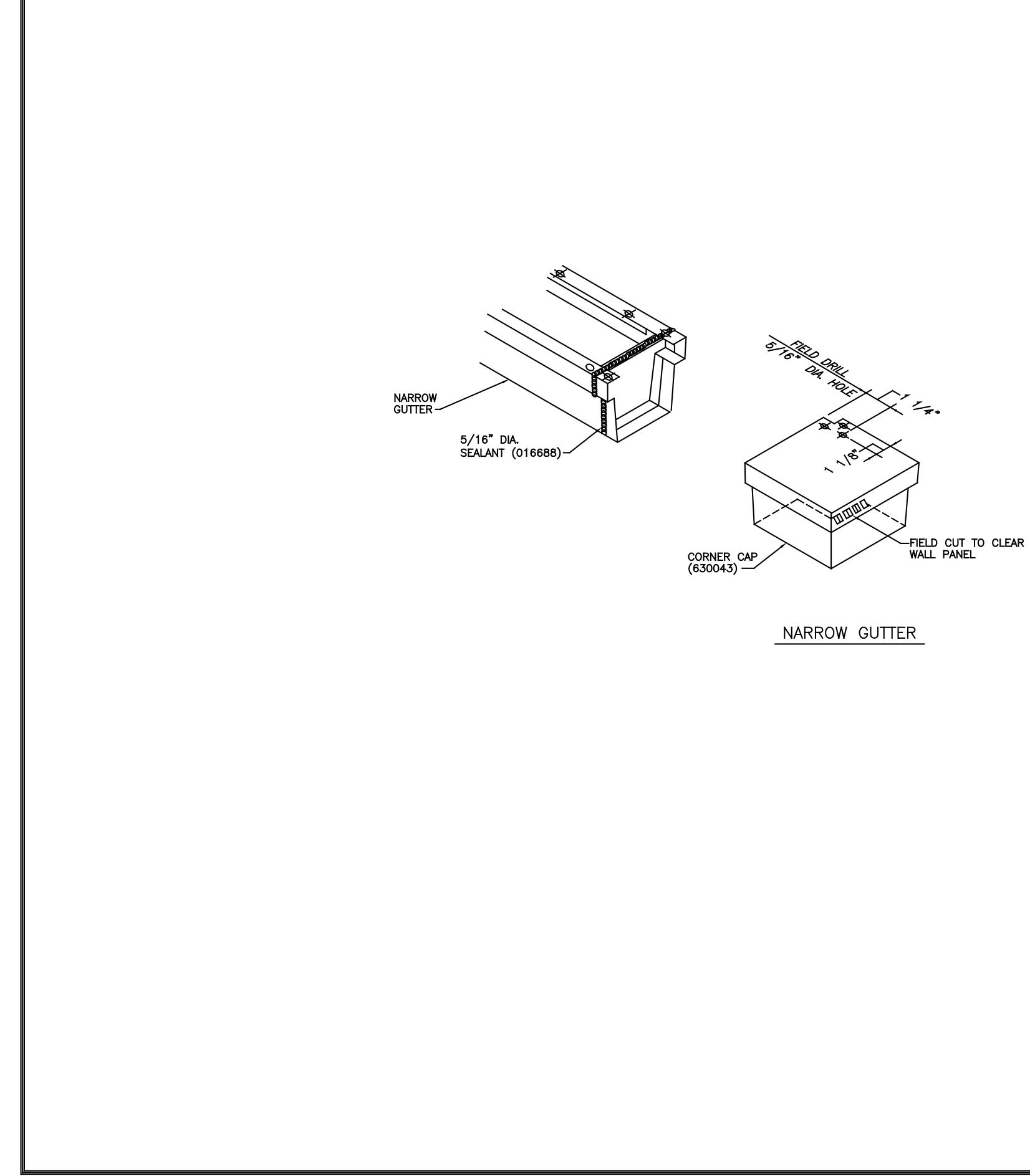
ATECORY	DRAWING TITLE	DWG. NO.	CATECORY	DRAWING TITLE	DWG. NO.	CATEGORY	DRAWING TITLE	DWG. NO.	CATEGORY	DRAWING TITLE	DWG. N
	MR-24 ROOF SYSTEM ERECTION MANUAL	P-004797		WIDE GUTTER, ASSELY. AND COMP'NTS.	P-D80082		WALL PNL. CALC. (ROOF TO WALL TRANS.)	P-080818		THERMAL SPACER BLOCK INSTALLATION	P-0805
F	MR-24 WIDTH ADDITION TO EXISTING BLDG.	P-080188		WIDE GUTTER INSTALLATION		P-D80088 5	FLEXIBLE SEAL INSTALLATION	P-081525	1	SKY-WEB PRODUCT DETAILS	P-0809
-	MAXIMUM 50 FT. SAME SLOPE			WITHOUT WEATHERSEAL			STEPPED ROOF OR ROOF TO WALL TRANS.) SUPPORT MEMBER INSTALL (STEPPED ROOF)	P-081526		SKY-WEB INSTALL, ON BLDG, STRUCT,	P-0809
-	MR-24 ROOF PANEL IDENTIFICATION	P-080570		MIDE GUTTER WITH WEATHERSEAL MR/CMR-24 WEATHERSEAL FOR LOCAL TRIM	P-080089 P-080377		STEPPED ROOF FLASH'G INSTALLATION	P-081528		SKY-WEB ATTACHMENT DETAILS	P-080
	MR-24 TRIM CLIP LOC. LOCKSEAM TAB AND PNL. CLIP ADAPTER	P-080572		MR/CMR-24 HIGH EAVE PNL, CLOSURE			END COVER INSTALLATION	P-081530		SKY-WEB ASSEMBLY DAMAGE	P-080
Γ	MR-24 PANEL INSTALLATION	P-080575		FOR LOCAL TRIM	P-D80378		PERP. ROOF TRANSITION			FOURE INSTALLATION PROCEDURES	P-0811
ļ	MR-24 PANEL CLIP INSTALLATION	P-080576		MR/CMR-24 RIDGE TRANSITION AND EXTENSION			PARALLEL TRANS SUPT ANGLE INSTALL (CMR-24 AND UN-INSUL PURLIN W/ MR-24)	P-081531		IFCURE INSTALLATION PROCEDURES DIVERTER PLATE AND CURE	P-0811
	MR-24 END LAP SPLICE	P-080577		MR/CMR-24 DRIP ANGLE INSTALL.			SHORT PARALLEL TRANSITION	P-081532		IFOURD INSTALLATION	
H	MR-24 RIDGE INSTALLATION	P-080578		MR/CMR-24 WEATHERSEAL FOR LOCAL TRIM GABLE TRIM AND WALL ADAPTER	P-D80802		PANEL INSTALLATION PARALLEL TRANS, SUPT ANGLE INSTALL			ELEVATED FRAME AT CARRY BEAMS	P-D81
	MR/CMR-24 HAND SEAMER INSTRUCTIONS MR/CMR-24 VALLEY FLASH. PNL. PREP.	P-08060D P-080783		INSTALLATION (WITH RIDGE ASSEMBLY)	P-D81167		(INSULATED PURLIN)	P-D81534		IFCURE INSTALLATION DOUBLE WALL - PURLIN CUTTING REQ [®] D	P-081
H	MR/CMR-24 VALLEY FLASH, PARTS INSTALL,	P-080784		INSIDE CORNER TRIM INSTALLATION- NARROW CUTTER TO CABLE TRIM	P-081235		TALL PARALLEL TRANSITION PANEL INSTALLATION	P-081535		IFCURB INSTALLATION	P-081
H	MR/CMR-24 VALLEY FLASH. DETAILS	P-080785		NARROW GUTTER CORNER CAP INSTALL.	D 00107¢		PARA / PERP TRANS. (SHORT AND TALL)	P-081537		DOUBLE WALL - NO FURLIN CUTTING RED [®] D	
Ī	MR/CMR-24 HIP RIDGE PNL. PREP.	P-080786		INSTALLATION BUTLERIB II, MR-24/CMR-24	P-081236		COUNTER FLASHING INSTALLATION PARALLEL TO PERP. TRANSITION			CARRY BEAMS - PURLIN CUTTING REQ'D	P-081
	MR/CMR-24 HIP RIDGE PARTS INSTALL.	P-0 8 0787		EAVE TRIM INSTALLATION	P-081239		INSIDE CORNER WITHOUT CORRUGATION	P-081539	ROOF	IFCURB INSTALLATION CARRY BEAMS - NO PURLIN CUTTING REQ'D	P-081
	MR/CMR-24 HIP RIDGE DETAILS	P-080788		WIDE GUTTER, CORNER TRIM AND COLLECTOR BOX INSTALL.	P-081240		PARALLEL TO PERP. TRANSITION	P-D81541	ACCES-	LITE*PANL PLACEMENT	P-D81
	MR-24 HS EAVE CLIP AND PNL. CLIP REQMT.			WIDE GUTTER SEALANT	P-081241		RIDGE TO WALL SHORT TRANS. (W/O CORR.)	P-081546	50RIE5	UNINSULATED LITE*PANL-UNINSULATED PURLIN	P-DB1
-	MR/CMR-24 MASTIC APPLICATION MR/CMR-24 VARIABLE WIDTH PANELS	P-080847 P-080875	TRIM	AND SUPPORT CHANNEL INSTALLATION RIDGE END COVER INSTALLATION			RIDGE TO WALL SHORT TRANS. (W/CORR.)	P-081547	-	INSULATED LITE*PANL-UNINSULATED PURLIN	P-081
ROOF	MR/CMR-24 VARIABLE WIDTH FANELS MR/CMR-24 CORR. END DEFLECTOR	P-080918		(WITH RIDGE ASSEMBLY)	P-D81243		RIDGE TO WALL TALL TRANS. (W/O CORR.)	P-081548		UNINSULATED LITE*PANL-INSULATED PURLIN	P-D8
	MR/CMR-24 SEAM REINFORCING CLIP ASSBLY.	P-080951		INSIDE CORNER TRIM INSTALLATION	P-081244		RIDGE TO WALL TALL TRANS. (W/CORR.)	P-081549			P-D8
F	MR-CMR-24 ROOF WITHOUT RIDGE	P-081257		EAVE TRIM TO GABLE TRIM WIDE GUTTER INSIDE CORNERS	P-DE1246	TRANSI- TIONS	PARALLEL TO PERP. TRANSITION INSIDE/OUTSIDE CORNER WITH CORR.	P-081552		UL \$0 UNINSULATED LITE*PANL FOR UNINSULATED PURLINS	P-DB
Ē	MR-24 SUB PURLIN INSTALLATION	P-081598		VARIABLE WALL ADAPTER INSTALLATION	P-081259	HAND	PARALLEL TO PERP. TRANSITION	P-081553		UL 90 INSULATED LITE*PANL	P-D8
H	MR-24 SEAMER PLATFORM ASS'Y AND USAGE	P-081616		EW TRIM REINFORCING CLIP	P-D81635		INSIDE /OUTSIDE CORNER WITHOUT CORR.			FOR UNINSULATED PURLIN UL 90 UNINSULATED LITE*PANL	
	MR-24 REPAIR CLIP INSTALLATION	P-081680		(HIGH WIND LOAD APPLICATION)			END COVER INSTALLATION STEPPED ROOF (WITH SUPPORT MBR.)	P-081554		FOR INSULATED PURLIN	P-D8
-	MR-24/CMR-24 PANEL CLOSURE INSTALL. MR-24 ENDWALL EXT./ROOF REPLACEMENT	P-103247 P-105528		NARROW GUTTER ASSEMBLY MR/CMR-24 GUTTER EXPANSION JOINT	P-103223 P-103315		PERPENDICULAR R TO W TRANSITION	P-081564		UL 90 INSULATED LITE*PANL FOR INSULATED PURLIN	P-081
	MR-24 ENDWALL EXT. / RODF REFLACEMENT MR-24/CMR-24 PANEL CLOSURE INSTALL.	P-105634		BIRD STOP INSTALL CABLE TRIM	P-104542		WITH SOLID WALL PERPENDICULAR R TO W TRANSITION	P-081568		LITE*PANL REPLACEMENT - DRAWING 1 OF 1	P-D8
	MR-24 SINGLE PANEL REPAIR	P-107656		SOFFIT TRIM DETAILS	P-104544		PERPENDICULAR TRANSITION			RIDGE VENTILATOR DETAILS	P-107
H	MR-24/CMR-24 PANEL REPAIR CAP INSTALL.	P-107657		CORNER CAP INSTALLATION	P-104549		SHORT PERP. FLASHING INSTALLATION	P-081572		RIDGE VENTILATOR PREPARATION DETAILS	P-107
F	MR-24/CMR-24 MULT, PANEL REPAIR	P-107743					PERPENDICULAR TRANSITION WITH OPEN WALL TALL PERP, FLASHING INSTALLATION	P-081573		RIDGE VENTILATOR INSTALLATION	P-107
	AND DET.			NARROW GUTTER INSTALL. W/D WEATHERSEAL NARROW GUTTER INSTALL. W/WEATHERSEAL	P-104713 P-104714		PARALLEL TRANSITION INSTALLATION	P-081613		CONTINUOUS RIDGE VENTILATOR INSTALL.	P-1D7
H	MR-24 MULTIPLE PANEL REPAIR MR-24 MULTIPLE PANEL REPAIR	P-107744 P-107745					TO EXISTING BLDG - NO WIDTH ADD. PARALLEL TRANSITION INSTALLATION				
H	MR-24 SEAMED RIDGE ROOF SYSTEM						TO EXISTING BLOG - FOR WIDTH ADD.	P-D81614			
	GENERAL INSTALLATION	P-090006		MR-24 SEAMED RIDGE ROOF SYSTEM	P-090008		CORRUGATION TRANSITION INSTALLATION GENERAL INFO AND CLIP INSTALL 1 OF 5	P-081675			
	MR-24 SEAMED RIDGE ROOF SYSTEM PANEL INSTALLATION	P-090007		RIDGE END COVER INSTALL. WITH RIDGE ASSY. MR-24 SEAMED RIDGE ROOF SYSTEM			CORRUGATION TRANSITION INSTALLATION	P-081676			
	MR-24 SEAMED RIDGE ROOF SYSTEM			INTERIOR RIDGE TRIM INSTALLATION	P-090010		SEAMING OPERATION 2 OF 5				
	ROOF PANEL FIELD NOTCHING DETAILS	P-090011		CONDUCTOR PIPE INSTALLATION AND DETAILS	P-OBDD91		CORRUGATION TRANSITION INSTALLATION SILICONE MEMBRANE AND COVER 3 OF 5	P-081677			
	MR-24 SEAMED RIDGE ROOF SYSTEM	F-090012	CONDUC-	COLLECTOR BOX INSTALL - NARROW GUTTER	P-103225	25	CORRUGATION TRANSITION INSTALLATION	P-081678			
			tor Pipe	CONDUCTOR PIPE INSTALLATION	P-105224		SPECIFIC DETAILS 4 OF 5 CORRUGATION TRANSITION INSTALLATION				
	MR/CMR-24 ROOF PANEL CALCULATOR ROOF STRUCTURALS FOR ROOF PNL. CALC.	P-081113 M-149099		CONDUCTOR PIPE DETAILS	P-105225		RIDGE AND PERP. TRANS. 5 OF 5	P-081679			
	MR/CMR ROOF PANEL CALCULATOR	P-080949		CONDUCTOR PIPE DETAILS	P-105228		MR-24 SEAMED RIDGE ROOF SYSTEM RIDGE PANEL AT PARALLEL TRANSITION	P-090009			
SS. WITH H	ROOF STRUCTURALS FOR				ŀ		PERPENDICULAR TRANSITION	P_001574			
	ROOF PANEL CALCULATIONS	P-ZR SLO				MEMBRANE	MEMBRANE ROOF TO METAL ROOF	P-081574			
							PARALLEL TRANSITION MEMBRANE ROOF TO METAL ROOF	P-081575			
					ł		INTERIOR GUTTER CORNER INSTALLATION	P-080189			
							ROOF TO WALL				
	NOTES:						INTERIOR GUTTER PAR, TO INSIDE CORNER FLASHING WITHOUT CORRUGATION	P-081543			
							INTERIOR GUTTER PAR. TO INSIDE CORNER FLASHING WITH CORRUGATION	P-081545			
	1. THE ABOVE DRAWINGS PERTAIN TO WID FOR THE ROOF SECONDARY, THESE BU			•			PARALLEL TO PARAPET GUTTER				
	MEMBER), GABLE ANGLES OR RAKE CH	ANNELS AT	THE BUILDIN	G STRUCTURE LINE, AT		INTERIOR	WITH AND WITHOUT CORRUGATION	P-081550			
	STANDARD LOCATIONS, FOR PANEL AN ROOF PANEL, TRIM AND ACCESSORY					GUTTERS	PARALLEL TRANS. TO VALLEY GUTTER WITH AND WITHOUT CORRUGATION	P-D81551			
	2. ONLY THOSE DRAWINGS REQUIRED ON	A SPECIFIC B	WILDING				MULT. GUTTER STOP FLASHING	P-105525			
							MULT. GUTTER GABLE TRIM	P-105526			
							MULT. GUTTER EXPANSION JOINT	P-105533			
							MULT. GUTTER SPECIAL APPLICATIONS	P-105534		MR-24 ERECTION DRAWN	G INITI
							WELD PROCEDURES FOR SS GUTTERS SUGGESTED FIELD FABRICATION	P-105846			
							COLLECTOR BOX AND SCREEN	P-107134		DIRAVIN BY DHEDKED BY DROUP NUMBER	<u>к: 07-03</u>

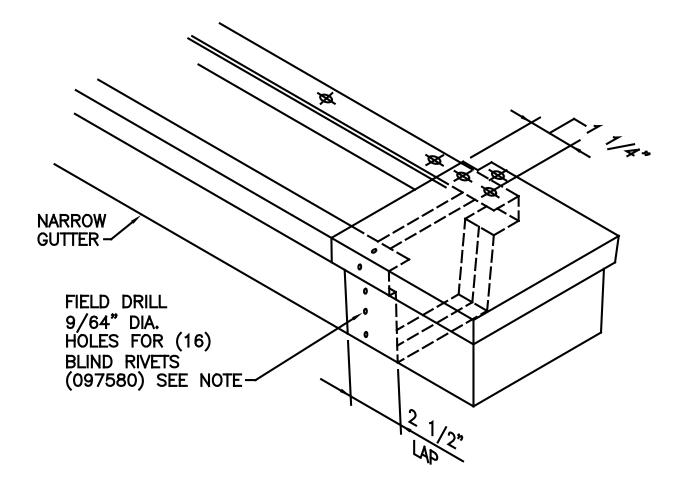


01/21/10 09/14/20

WALL ADAPTER PART SCHEE	DULE		
WALL PANEL	PART NUMBER	LENGTH	L
NON-BMC WALL (SEE DWG. P-081259)	VWA10		
BUTLERIB II, SHADOWALL, STYLWALL II FLAT AND FLUTED, ALL (2") TEXTURED AND INSULATED WALL PANEL	WA10A		P/
ALL (2 1/2") TEXTURED AND INSULATED WALL PANEL ALL (3") TEXTURED AND INSULATED WALL PANEL OPEN ENDWALL OVERHANG AND CANOPY	WA10B	10'-4 1/2"	MF
ALL (4") TEXTURED AND INSULATED WALL PANEL	WA10C		



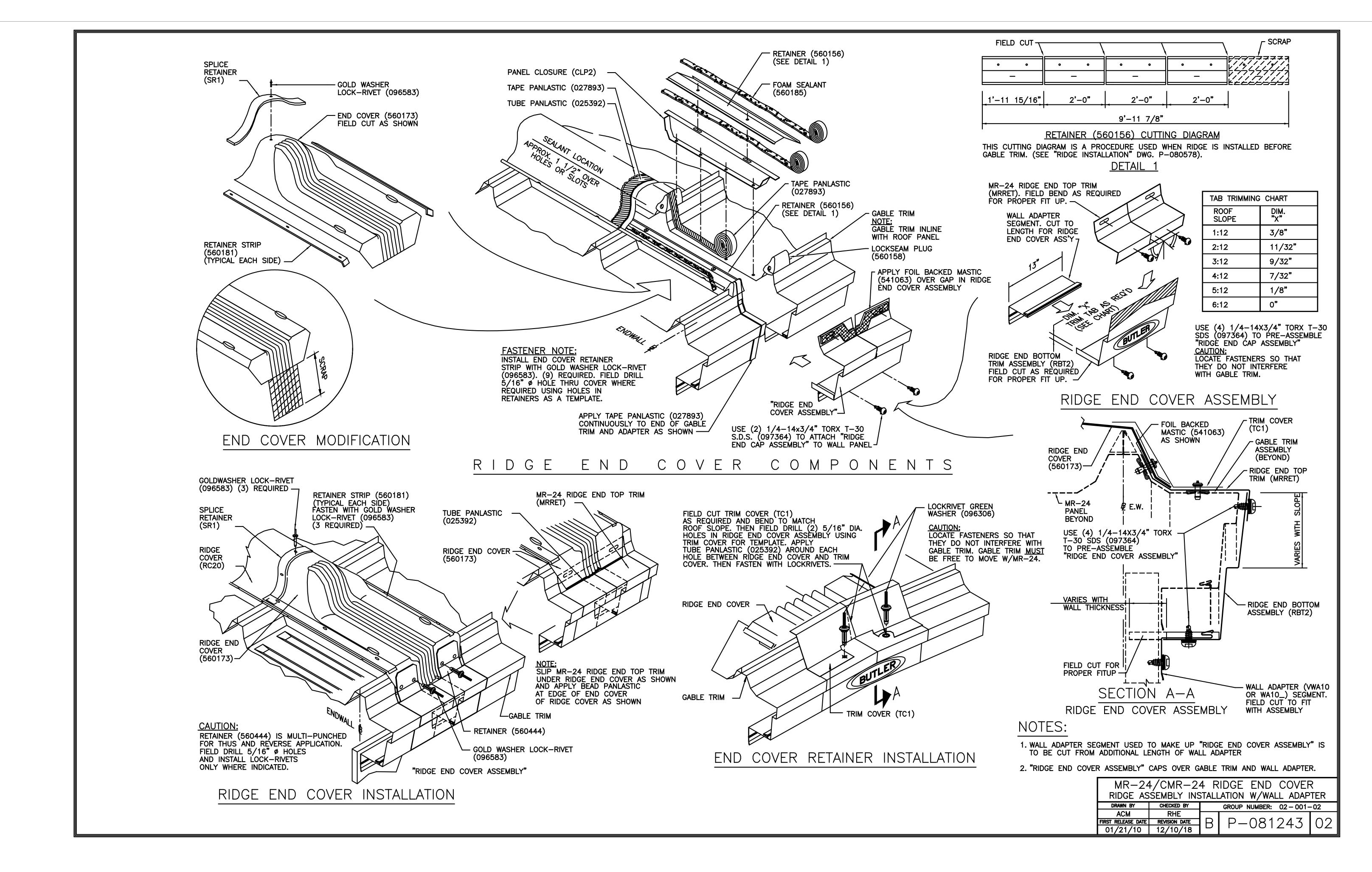


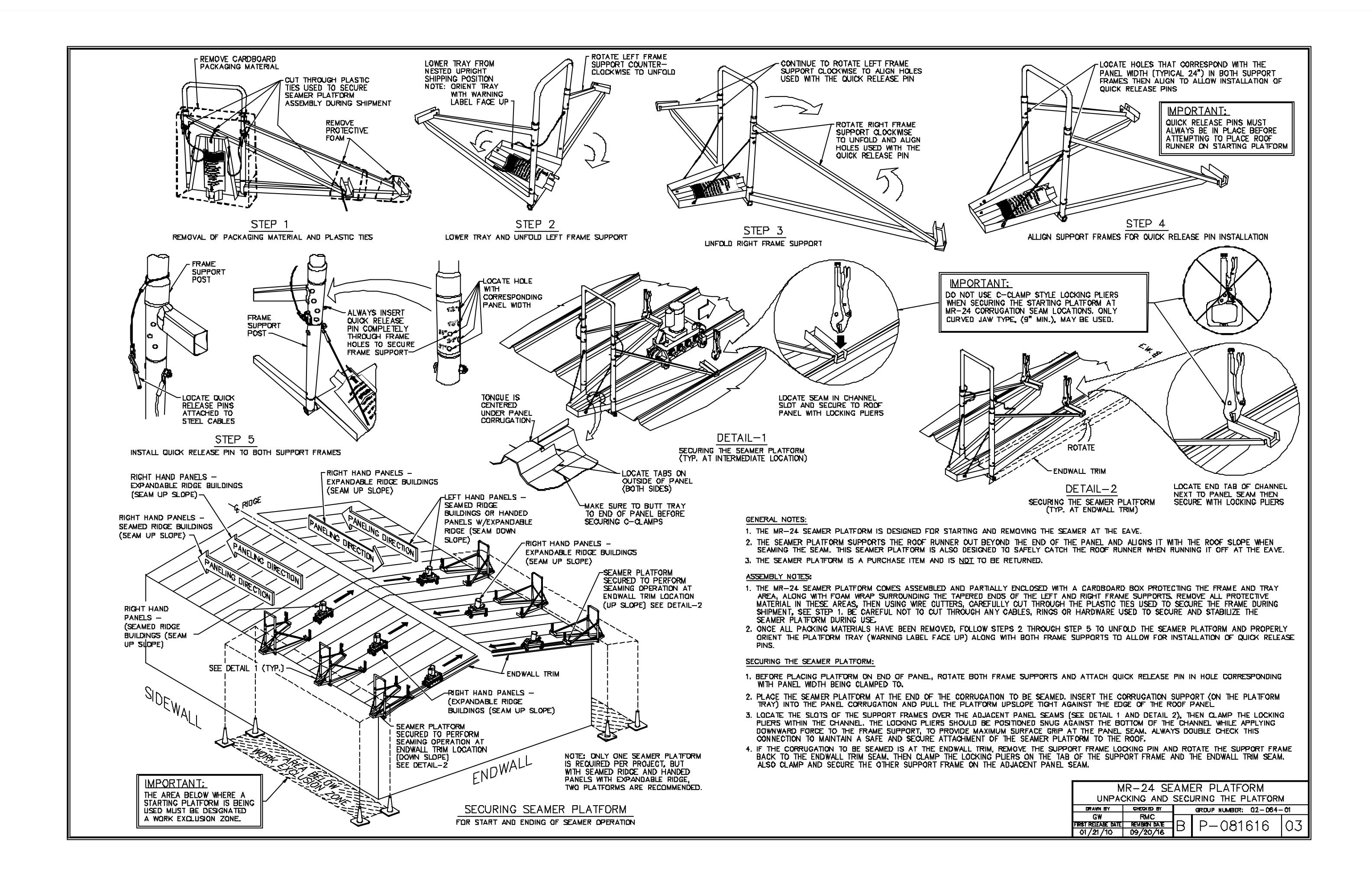


NOTE:

NARROW GUTTER CORNER CAP INSTALLATION – ALL ROOFS						
DRAWN BY	CHECKED BY		GROUP NUMBER: 01-004-01			
CAG	MEC					
FIRST RELEASE DATE	REVISION DATE	I R I	P-081236	14		
01/21/10	12/04/18		1 001200			

SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION.





SAFETY PRECAUTIONS

SAFETY MUST BE A PRIME CONCERN THROUGHOUT THE ENTIRE ERECTION PROCESS. THESE INSTRUCTIONS CONTAIN SAFETY INFORMATION THAT IS IMPORTANT FOR ALL WORKERS TO KNOW AND UNDERSTAND. IN ADDITION, LOCAL, STATE AND OSHA SAFETY REGULATIONS MUST BE FOLLOWED AT ALL TIMES. THE ERECTION CONTRACTOR HAS THE ULTIMATE RESPONSIBILITY FOR THE SAFETY OF THE WORKERS AND MUST COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS.

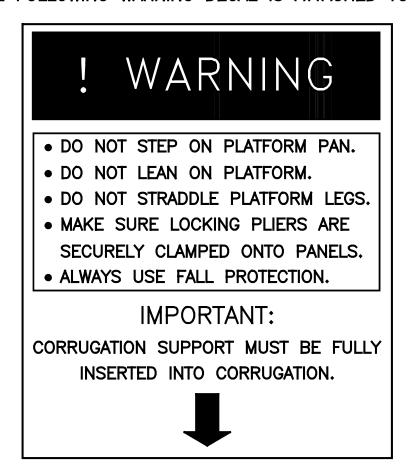
RECOGNIZE SAFETY INFORMATION



THIS IS THE SAFETY-ALERT SYMBOL. WHEN YOU SEE THIS SYMBOL IN THESE INSTRUCTION, BE ALERT TO THE POTENTIAL FOR PERSONAL INJURY. FOLLOW RECOMMENDED PRECAUTIONS AND SAFE PRACTICES.

FOLLOW SAFETY INSTRUCTIONS

CAREFULLY READ ALL SAFETY MESSAGES IN THESE INSTRUCTIONS AS WELL AS MR-24 ERECTION MANUAL, ALL APPLICABLE DRAWINGS AND THE ROOFING WORK SAFETY INSTRUCTIONS AND ROOF PANEL WARNING LABEL THAT ARE SHIPPED WITH THE ROOF MATERIALS. THE FOLLOWING WARNING DECAL IS ATTACHED TO THE SEAMER PLATFORM PAN.



INJURY OR EVEN DEATH.

IN ADDITION, FOLLOW THESE GUIDELINES DURING ALL ROOF RUNNER SEAMING OPERATIONS:

- ALWAYS USE FALL PROTECTION AND WALKBOARDS WHEN INSTALLING PANELS OR WORKING NEAR ROOF EDGES. - MAKE SURE SEAMING FOLOWS LAYING OF PANELS AS CLOSELY AS POSSIBLE AND USE FALL PROTECTION. - LOCKING PLIERS (NOT BY BUTLER MANUFACTURING COMPANY) USED TO ATTACH SEAMER PLATFORM TO PANELS MUST BE IN GOOD CONDITION AND ADJUSTED TO RESIST A GOOD HARD PULL (60 POUNDS). ALWAYS DOUBLE CHECK SECURENESS OF
- LOCKING PLIERS EACH TIME THE SEAMER PLATFORM IS SECURED TO THE ROOF CORRUGATIONS. - NEVER STEP ON THE SEAMER PLATFORM PAN. • NEVER "RIDE" THE ROOF RUNNER OR BLOCK VENTS ON THE MOTOR IN ANY WAY.
- PANELS NOT FULLY SEAMED CAN COLLAPSE OR SLIDE OUT FROM UNDER YOU, ALWAYS USE FALL PROTECTION AND WALKBOARDS WHEN INSTALLING PANELS OR WORKING NEAR ROOF EDGES. MAKE SURE SEAMING FOLLOWS THE LAYING OF PANELS AS CLOSELY AS POSSIBLE.



NEVER TIE POWER CORDS TOGETHER OR TO THE ROOF RUNNER



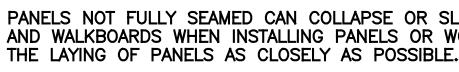
KEEP THE PATH OF THE ROOF RUNNER CLEAR AT ALL TIMES AND POWER CORDS FREE OF ENTANGLEMENTS. A NON-LOCKING PLUG IS SUPPLIED SO THAT IT WILL UNPLUG ITSELF SHOULD THE POWER CORD BECOME ENTANGLED. DO NOT DEFEAT THIS SAFETY FEATURE BY TYING THE POWER CORD TO THE MOTOR LEAD OR TO THE ROOF RUNNER. ADDITIONALLY, TOWING OF THE POWER CORD(S) CAN CAUSE IMPROPER SEAMS TO BE FORMED.



DON'T RIDE THE ROOF RUNNER OR BLOCK VENTS ON THE MOTOR IN ANY WAY.



WARNING:





CAUTION:

ALL ELECTRICAL SERVICE MUST BE PROPERLY GROUNDED, AND MUST INCLUDE A GROUND FAULT INTERRUPTER!

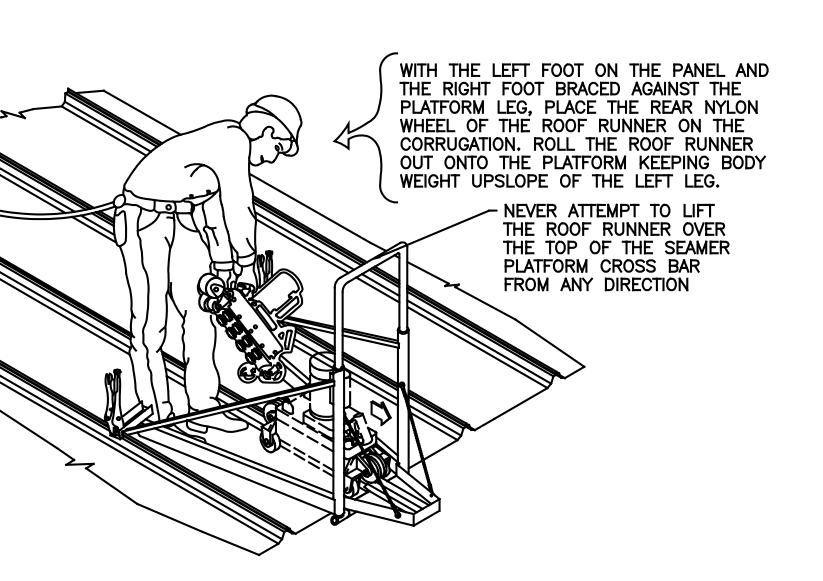
FAILURE TO HEED THESE WARNINGS CAN RESULT IN SERIOUS

IF THE WARNING DECAL BECOMES ILLEGIBLE. ORDER A FREE REPLACEMENT FROM THE ROOF RUNNER OPERATIONS DEPARTMENT.

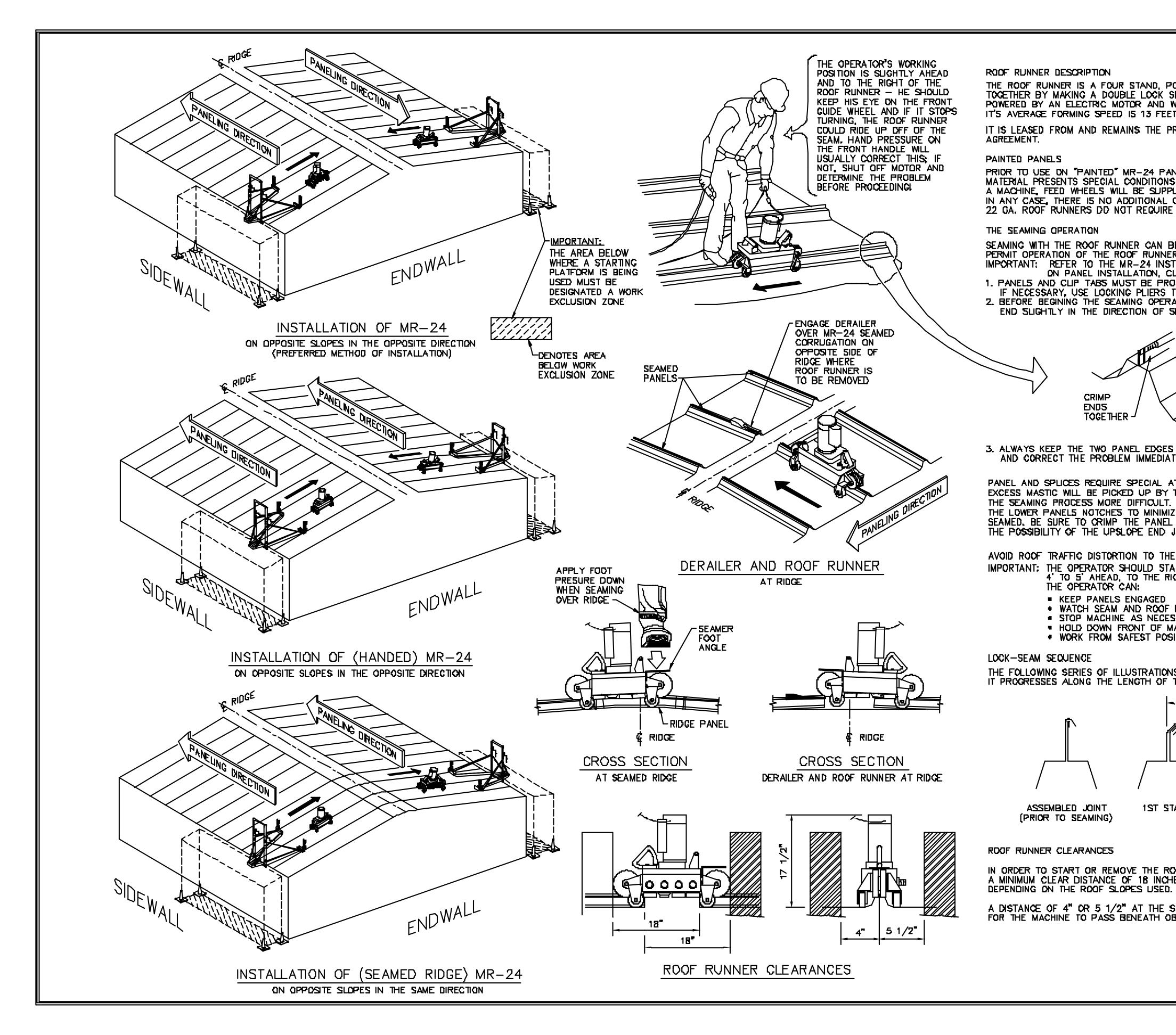


NEVER STRADDLE THE PLATFORM OR COUNTERBALANCE THE ROOF RUNNER WITH YOUR WEIGHT.

PANELS NOT FULLY SEAMED CAN COLLAPSE OR SLIDE OUT FROM UNDER YOU. ALWAYS USE FALL PROTECTION AND WALKBOARDS WHEN INSTALLING PANELS OR WORKING NEAR ROOF EDGES. MAKE SURE SEAMING FOLLOWS



MR-24 ROOF RUNNER OPERATIONS							
SAFETY PRECAUTIONS							
DRAWN BY	DRAWN BY CHECKED BY GROUP NUMBER: 02-064-01						
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FIRST RELEASE DATE	REVISION DATE	IRI	P-081672	1			
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CRIMP END5 TOGETHER AND CORRECT THE PROBLEM IMMEDIATELY.

- PANEL AND SPLICES REQUIRE SPECIAL ATTENTION IMPROPERLY PLACED OR EXCESS MASTIC WILL BE PICKED UP BY THE ROOF RUNNER MACHINE MAKING

THE OPERATOR CAN:

ASSEMBLED JOINT

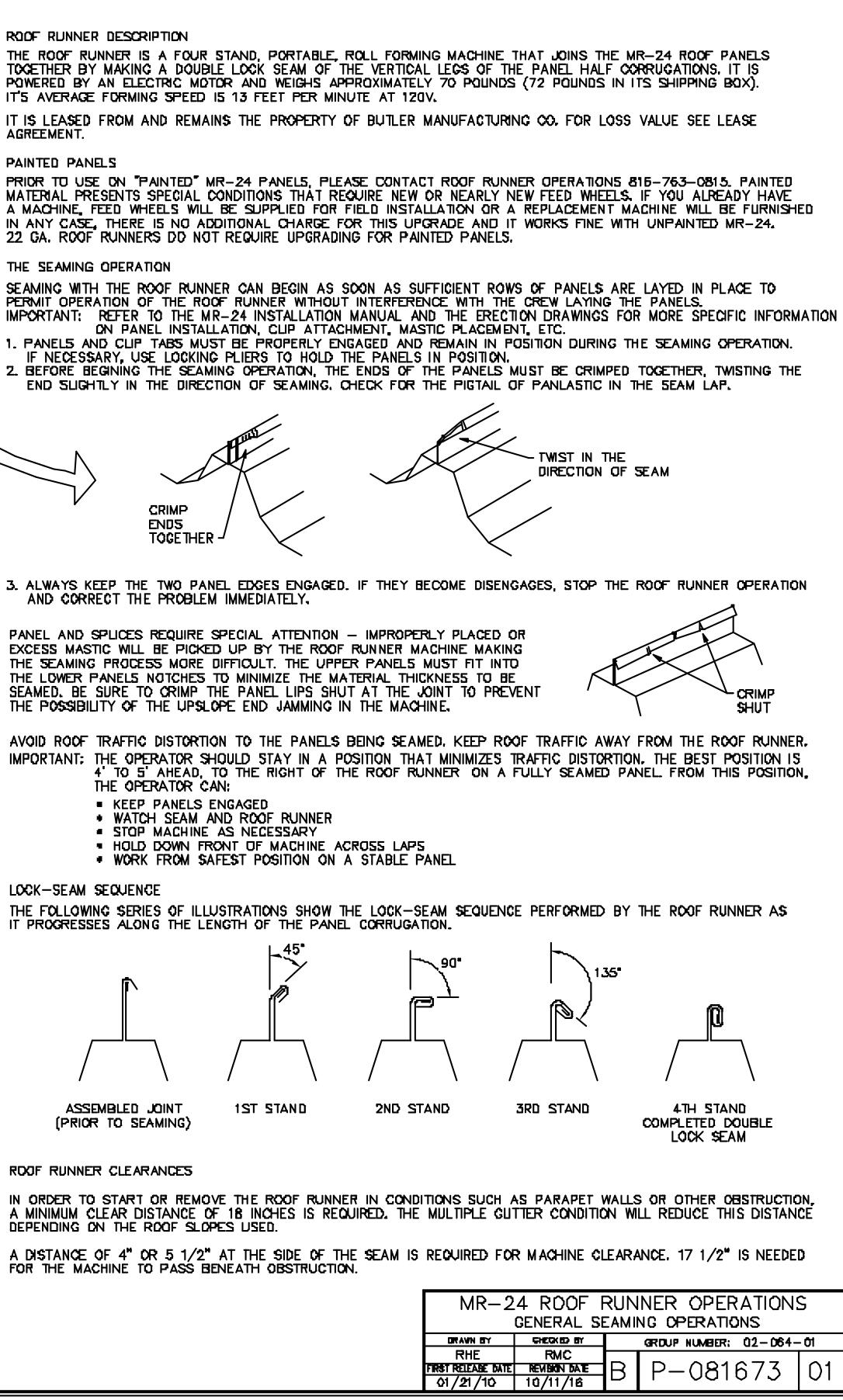
(PRIOR TO SEAMING)

ROOF RUNNER CLEARANCES

1ST STAND

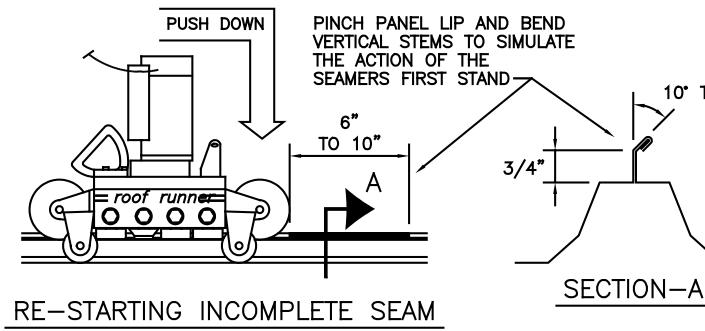
KEEP PANELS ENGAGED

- THE SEAMING PROCESS MORE DIFFICULT. THE UPPER PANELS MUST FIT INTO THE LOWER PANELS NOTCHES TO MINIMIZE THE MATERIAL THICKNESS TO BE SEAMED. BE SURE TO CRIMP THE PANEL LIPS SHUT AT THE JOINT TO PREVENT

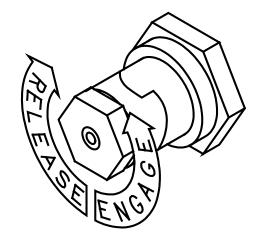


TIPS FOR TROUBLE FREE OPERATION

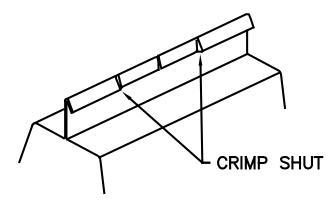
- 1. SAFE AND CORRECT SEAMING REQUIRES ALL MACHINE OPERATORS TO BE FAMILIAR WITH THE MACHINE FEATURES, BE SURE THEY ARE AWARE OF THE PROPER MATERIAL FLOW THROUGH THE FEED WHEELS SO THAT THEY CAN SPOT A MALFUNCTION QUICKLY AND CAN CORRECT ITS CAUSE IMMEDIATELY. IMPROPER SEAMS LONGER THAN 5 FEET ARE DIFFICULT TO REPAIR AS THEY INVOLVE THE PANEL CLIPS AND TABS.
- 2. ALWAYS USE A SEAMER PLATFORM.
- 3. MAKE SURE THE FEED WHEELS ARE KEPT CLEAN, ESPECIALLY ON PAINTED MATERIAL! (SEE MAINTENANCE)
- 4. MANY SEAMING PROBLEMS ARE THE RESULT OF MIS-ALIGNED PURLINS AND/OR FRAMES, A SUDDEN CHANGE IN DIRECTION (1/4" IN 5'-0") CAN CAUSE AN INCORRECT SEAM. A GOOD RULE TO FOLLOW IS TO "STRING LINE" THE PURLIN HOLES IN ÉACH BAY BEFORE PANELING.
- 5. BE SURE THE PANELS ARE PROPERLY ENGAGED PRIOR TO SEAMING. USE LOCKING PLIERS TO HOLD THEM IN POSITION AS REQUIRED. SHOULD AN INCOMPLETE SEAM OCCUR, STOP THE ROOF RUNNER IMMEDIATELY! AN INCOMPLETE SEAM CAN USUALLY BE RESTARTED BY BENDING THE PANEL STEMS SEVERAL INCHES AHEAD OF THE SEAMER. IN THE DIRECTION OF SEAMING.



- 6. WATCH TO SEE THAT THE LARGE FRONT AND REAR GUIDE WHEELS ARE BEARING ON THE CORRUGATION. THE WHEELS SHOULD TURN THROUGHOUT THE SEAMING OPERATION (AT CLIPS AND END SPLICES THEY MAY STOP MOMENTARILY, BUT SHOULD RESUME TURNING AGAIN IMMEDIATELY).
- 7. CAM RELEASES ARE PROVIDED FOR THE PURPOSE OF DISENGAGING THE MACHINE FROM THE PANEL. THEY SHOULD BE USED ONLY WHEN ABSOLUTELY NECESSARY. A LARGE ADJUSTABLE WRENCH OR 30 MM SOCKET IS REQUIRED AND THE PROCESS SHOULD BE DONE SLOWLY AND WITH GREAT CARE AS THERE ARE SEVERAL CAST PIECES INVOLVED THAT ARE UNDER HEAVY SPRING PRESSURE. THESE PIECES WILL BREAK IF EXTREME CARE IS NOT USED TO RELEASE AND ENGAGE THE CAM.



8. PANEL AND SPLICES REQUIRE SPECIAL ATTENTION - IMPROPERLY PLACED OR EXCESS MASTIC WILL BE PICKED UP BY THE ROOF RUNNER MACHINE MAKING THE SEAMING PROCESS MORE DIFFICULT. THE UPPER PANELS MUST FIT INTO THE LOWER PANELS NOTCHES TO MINIMIZE THE MATERIAL THICKNESS TO BE SEAMED. BE SURE TO CRIMP THE PANEL LIPS SHUT AT THE JOINT TO PREVENT THE POSSIBILITY OF THE UPSLOPE END JAMING THE ROOF RUNNER MACHINE.



9. AVOID ROOF TRAFFIC DISTORTION TO THE PANELS BEING SEAMED. KEEP ROOF TRAFFIC AWAY FROM THE ROOF RUNNER. IMPORTANT: THE OPERATOR SHOULD STAY IN A POSITION THAT MINIMIZES TRAFFIC DISTORTION. THE BEST POSITION IS 4' TO 5' AHEAD, TO THE RIGHT OF THE ROOF RUNNER THE OPERATOR CAN:

- KEEP PANELS ENGAGED - WATCH SEAM AND ROOF RUNNER
- STOP MACHINE AS NECESSARY
- HOLD DOWN FRONT OF MACHINE ACROSS LAPS
- WORK FROM SAFEST POSITION ON A STABLE PANEL

10° TO 20°

MAINTENANCE FOR THE SEAMER PLATFORM

ALL MAINTENANCE AND REPAIRS ARE THE RESPONSIBILITY OF THE BUILDER.

THE SEAMER PLATFORM MUST BE MAINTAINED IN GOOD WORKING CONDITION IN ORDER TO FUNCTION PROPERLY AND SAFELY. DO NOT ALLOW THE SEAMER PLATFORM TO BE DROPPED, BENT, OR IN ANY WAY BE DAMAGED.

REGULAR INSPECTION OF THE SEAMER PLATFORM IS ADVISABLE IN ORDER TO DISCOVER HIDDEN DAMAGE AND TO INSURE IT IS IN GOOD WORKING ORDER.

IF ANY DAMAGE TO THE SEAMER PLATFORM AFFECTS ITS SAFE USAGE, DO NOT CONTINUE TO USE IT.

TO PURCHASE A REPLACEMENT, CALL THE ROOF RUNNER OPERATIONS DEPARTMENT.

THE WARNING DECAL ON THE SEAMER PLATFORM MUST ALSO BE KEPT IN GOOD CONDITION. REPLACEMENTS MAY BE ORDERED, FREE OF CHARGE, FROM THE ROOF RUNNER OPERATIONS DEPARTMENT (816-763-0815).

MAINTENANCE FOR THE ROOF RUNNER

ALL MAJOR MAINTENANCE AND REPAIRS WILL BE DONE BY BUTLER MANUFACTURING COMPANY - ROOF RUNNER OPERATIONS. EACH MACHINE WILL BE CLEANED, WORN PARTS REPLACED, LUBRICATED, PAINTED, AND TESTED BEFORE BEING SHIPPED TO INSURE RELIABLE PERFORMANCE ON THE JOB SITE.

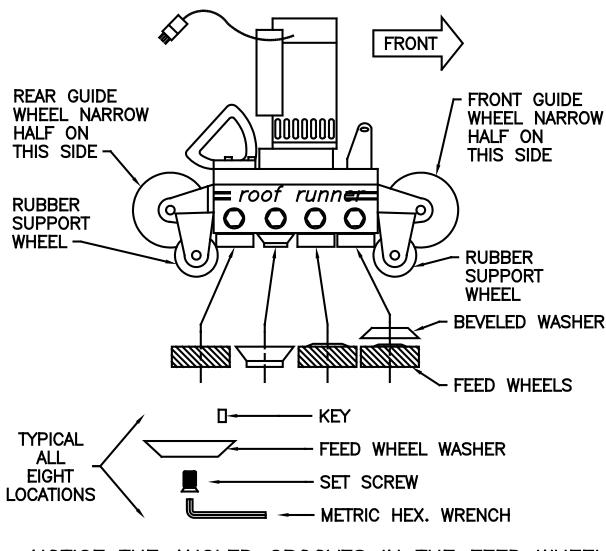
MINOR MAINTENANCE SUCH AS MASTIC REMOVAL, PROTECTION FROM MOISTURE, DAMAGE, SHIPPING BOX CARE, ETC., ARE SOLELY THE RESPONSIBILITY OF THE LESSEE.

ALL QUESTIONS PERTAINING TO THE ROOF RUNNER SHOULD BE DIRECTED TO: (PLEASE REFER TO SPECIFIC ROOF RUNNERS BY SERIAL NUMBER ON ALL CORRESPONDENCE)

MASTIC REMOVAL - THE EIGHT FORMING WHEELS ON THE UNDERSIDE OF THE ROOF RUNNER MAY BE REMOVED FOR CLEANING (AN "L" SHAPED METRIC HEX WRENCH IS FURNISHED WITH THE ROOF RUNNER TO REMOVE THE FEED WHEEL SET SCREWS). THE FEED WHEELS, WASHERS, AND SET SCREWS CAN BE SOAKED IN A SOLVENT BATH TO REMOVE MASTICS. NAPTHA OR MINERAL SPIRITS WILL EFFECTIVELY CUT BUTLER MASTICS. CAUTION - READ SOLVENT LABELS THOROUGHLY BEFORE USING. DO NOT SOAK ANY OTHER PART OF THE ROOF RUNNER - SOLVENTS WILL ATTACK THE RUBBER SUPPORT WHEELS AND REMOVE THE LUBRICATING ABILITY OF THE BRONZE BEARINGS IF SOAKED. THESE PARTS MAY BE CLEANED BY BRUSHING OR WIPING WITH SOLVENTS AND SHOULD BE DRIED IMMEDIATELY. THE FOLLOWING SKETCHES SHOW THE PROPER ORIENTATION OF THE FEED WHEELS, KNURLING DIRECTION, AND OTHER PARTS THAT CAN BE REMOVED FOR CLEANING. FEED WHEELS MUST BE RE-INSTALLED EXACTLY AS SHOWN BEFORE THE MACHINE CAN FUNCTION PROPERLY.

PAINTED PANELS - FEED WHEELS MUST PENETRATE THE PAINTED SURFACE IN ORDER TO GRIP THE PANEL AND MAKE THE SEAM. THIS WILL LEAVE NON-OBJECTIONABLE TRACKS ON THE SEAM. A BUILD-UP OF PAINT CHIPS IN THE GROOVES OF THE FEED WHEELS WILL OCCUR REQUIRING CONTINUOUS WIRE BRUSHING TO INSURE AN ADEQUATE GRIP DURING THE SEAMING PROCESS.

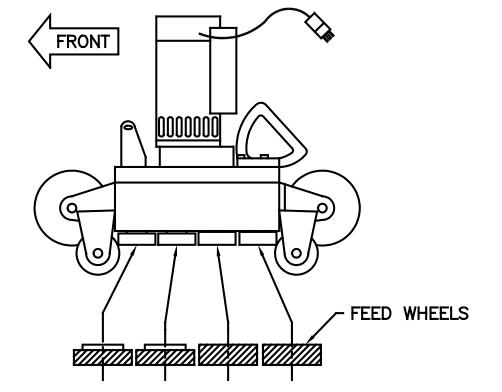
THE FREQUENCY OF CLEANING SHOULD BE DETERMINED BY THE MACHINE OPERATOR. MASTIC MUST NOT BE ALLOWED TO ACCUMULATE ON THE FEED WHEELS EVEN THOUGH THE MACHINE IS FUNCTIONING PROPERLY. AS MASTICS BUILD UP, A CERTAIN AMOUNT WILL MIGRATE TO THE INTERNAL PARTS CAUSING BINDING OF PARTS AND RESULTING IN IMPROPER FUNCTIONING. INTERNAL CLEANING IS CONSIDERED MAJOR MAINTENANCE AND MUST BE DONE BY ROOF RUNNER OPERATIONS.



NOTICE THE ANGLED GROOVES IN THE FEED WHEELS, THEY MUST BE RE-INSTALLED EXACTLY AS SHOWN!

BUTLER MANUFACTURING COMPANY 13500 BOTTS ROAD GRANDVIEW, MISSOURI 64030

TEL: 816-763-0815 FAX: 816-763-1717 ATTN: ROOF RUNNER OPS.



GUIDE WHEELS AND RUBBER SUPPORT WHEELS MAY ALSO BE REMOVED FOR CLEANING BY REMOVING SNAP RINGS AND WITHDRAWING THE AXLES

			INER OPERATION	-
				•
DRAWN BY	CHECKED BY		GROUP NUMBER: 02-064-	-01
RHE	RMC	_		
FIRST RELEASE DATE	REVISION DATE	R	P-081674	
01/21/10	12/04/18	D	1 001074	

		SCRUBOLTS
PART MARK	COLOR	DESCRIPTION
095984		11/32 X 7/8", HEX HD, SS W/WASHER
096932		3/8 X 1 1/4", HEX HD W/WASHER
097104		11/32 X 1 1/4", HEX HD, SS W/WASHER
097196		3/8 X 1", HEX HD W/WASHER
097222		3/8 X 2", HEX HD W/WASHER
097264		3/8 X 2 3/4", HEX HD W/WASHER
097270		3/8 X 2 1/4", HEX HD W/WASHER
097271		3/8 X 3 1/2", HEX HD W/WASHER
097292		3/8 X 5", HEX HD W/WASHER
097298		3/8 X 6", HEX HD W/WASHER
097351		11/32 X 7/8", T-45 TORX HD W/O WASHER (GRAY)
097352		11/32 X 1 1/4", T-45 TORX HD W/O WASHER (GRAY)
097361-		11/32 X 7/8", T-45 TORX HD W/WASHER
097362-		11/32 X 1 1/2", T-45 TORX HD W/WASHER
097363—		11/32 X 2", T-45 TORX HD W/WASHER
097604—		11/32 X 3 1/2", T-45 TORX HD W/WASHER
097267		SCRUBOLT NUT, 11/32", 1/2" HEX
097466		SCRUBOLT NUT, 23/64", 1/2" HEX

		SELF-DRILLING SCREWS
PART MARK	COLOR	DESCRIPTION
097216		(T-3) #10-16 X 3/4", 5/16" HEX HD
097295		(T-3) #12-14 X 3/4", 5/16" HEX HD W/WASHER
097296		(T-3) #12-14 X 1 1/4", 5/16" HEX HD W/WASHER
097354		(T-4) 1/4-14 X 1 1/2", 3/8" HEX HD W/WASHER
097356		(T-3) 1/4-14 X 1" PHILLIPS WAFER HD
097373		(T-3) #12-14 X 1 1/4", 3/8" HEX HD, SS W/WASHER
097374		(T-3) #12-14 X 1 1/4", 3/8" HEX HD, SS W/WASHER
097405		(T-3) 5/16-12 X 1", 3/8" HEX HD W/WASHER
097406		(T-3) 5/16-12 X 1 1/2", 3/8" HEX HD W/WASHER
097409		(T-3) 1/4-14 X 7/8", 3/8" HEX HD, SS W/WASHER
097460		(T-3) 5/16-18 X 1 1/4", 3/8" HEX HD W/WASHER
097554		(T-5) #12-24 X 1 1/4", 5/16" HEX HD W/O WASHER
097555		(T-3) 1/4-14 X 1 1/4", 3/8" HEX HD W/O WASHER
097230-		(T-3) 1/4-14 X 1 1/4", 3/8" HEX HD W/WASHER
097357—		(T-1) 1/4-14 X 7/8", 3/8" HEX HD W/WASHER
097364—		(T-1) 1/4-14 X 3/4", T-30 TORX HD W/WASHER
097365—		(T-3) #12-14 X 1 1/4", T-30 TORX HD W/WASHER
097529-		(T-5) #12-24 X 1 1/2", T-30 TORX HD W/WASHER
097584-		(T-2) #12-14 X 1 1/4", 5/16" HEX HD, SS CAP W/WASHER
097605-		(T-5) $\#12-24 \times 3 1/8$ ", T-30 TORX HD STANDOFF SDS W/WASHER
55307		(T-3) 1/4-14 X 1 1/4", 5/16" HEX HD
55310		(T-3) 1/4-14 X 3", 5/16" HEX HD
55312		(T-3) #12-14 X 1" PANCAKE PHILLIPS SQUARE DRIVE
55320		(T-3) 1/4-14 X 1 1/2", 5/16" HEX HD
56104		(T-5) #12-24 X 1 1/2", 5/16" HEX HD
56450		(T-2) #12-14 X 1 1/4", 5/16" HEX HD W/O WASHER
097581-		(T-1) 1/4-14 X 7/8", 5/16" HEX HD, SS CAP W/WASHER

		MISCELLANEOUS FASTENERS	
PART MARK	COLOR	DESCRIPTION	
095050		MACHINE SCREW 1/4 X 3/4", HEX HD	
095051		MACHINE SCREW 1/4 X 1", HEX HD	
095056		MACHINE SCREW 1/4 X 3", HEX HD	
095062		NUT, MACHINE SCREW 1/4", HEX HD	
095241		NUT, 1/4" FLAT SPEED NUT	
095895		(T-A) #10 X 3/4", PAN HD (SHEET METAL SCREW)	
097190-		NUT, 1/4-20 SS FLANGE NUT	

	BLIND RIVETS
PART MARK COL	R DESCRIPTION
097580	_ POP RIVET, 1/8 X 3/8"

FASTENER COLOR SUFFIX CHART

SUFFIX	COLOR
100 =	COOL IGLOO WHITE
101 =	COOL IVORY WHITE
102 =	COOL SOLAR WHITE
103 =	COOL BRICK RED
104 =	COOL COUNTRY WHEAT
105 =	COOL HARVEST
106 =	COOL SAFARI BROWN
107 =	COOL PALM GREEN
108 =	COOL MARSH GREEN
109 =	COOL EMERALD GREEN
110 =	COOL ONYX BLACK
111 =	COOL MAJESTIC BLUE

SUFFIX COLOR
112 = COOL SHELL GRAY
113 = COOL DESERT BEIGE
115 = COOL OCEAN BLUE
116 = COOL GRAY STONE
117 = COOL COPPER PENNY
118 = COOL METALLIC SILVER
119 = COOL JADE GREEN
120 = COOL BRIGHT RED
121 = COOL PARCHMENT
122 = COOL OLD TOWN GRAY
141 = COOL BIRCH WHITE
UNPNTD = UNPAINTED

	LOCK-RIVETS
PART MARK	DESCRIPTION
096295	9/32" X 1 3/32", "A" HD W/BLACK WASHER
096306	9/32" X 1 3/32", "B" HD W/GREEN WASHER
096582	9/32" X 1 11/32", "A" HD W/BLUE WASHER
096583	9/32" X 1 11/32", "B" HD W/GOLD WASHER

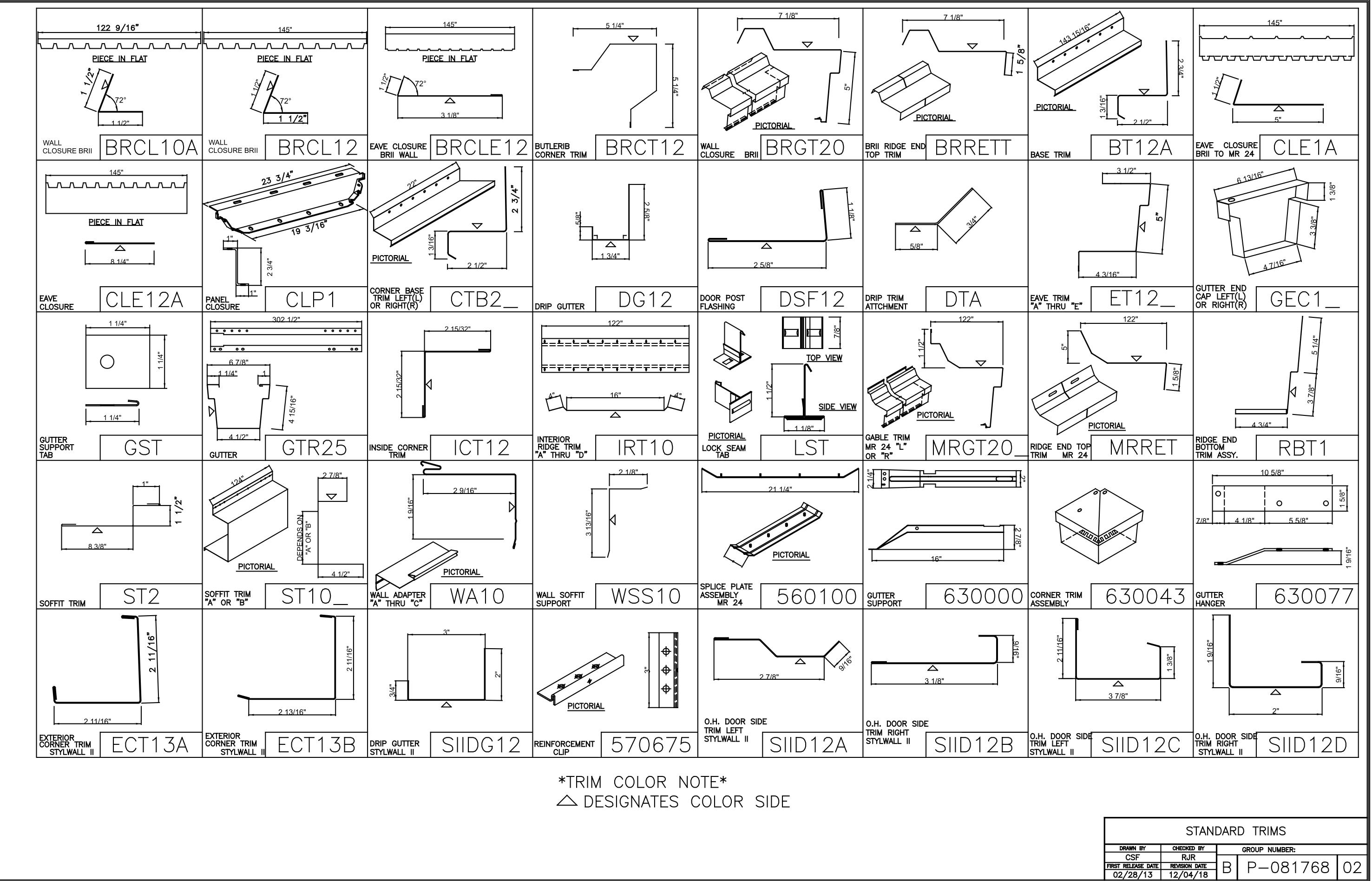
	FOAM TYPE SEALANT
PART MARK	DESCRIPTION
560185	3/16" X 3/4" X 50' ROLL
560201	3" X 3" X 1'-10" STRIP

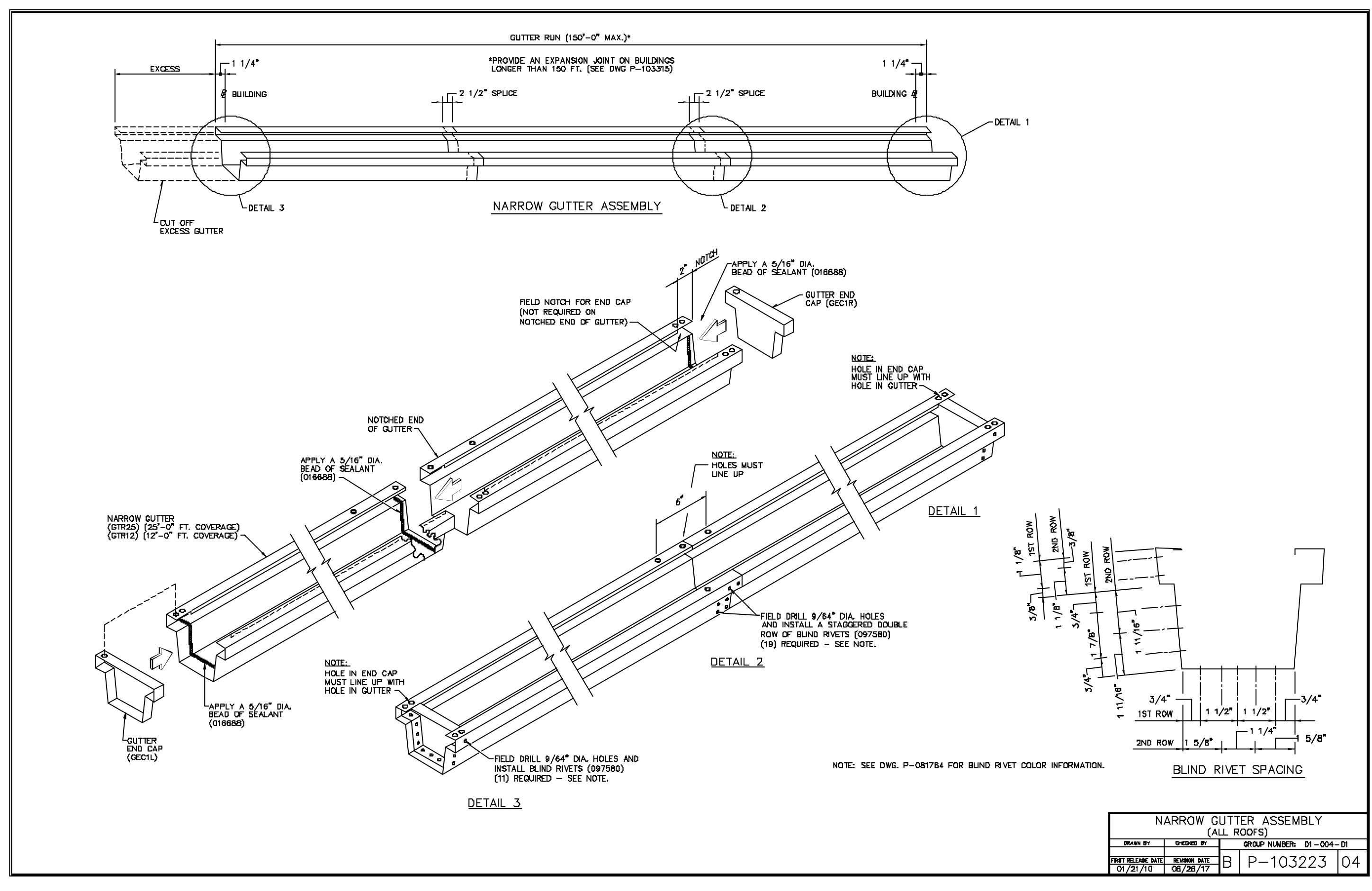
	SEALANT
PART MARK	DESCRIPTION
016688	GRAY SKINNING SEALANT
025392	WHITE NON-SKINNING PANLASTIC SEALANT
80531	IMMERBOND FLEXIBLE SEAL ADHESIVE
560460	FLEXIBLE FLASHING ADHESIVE

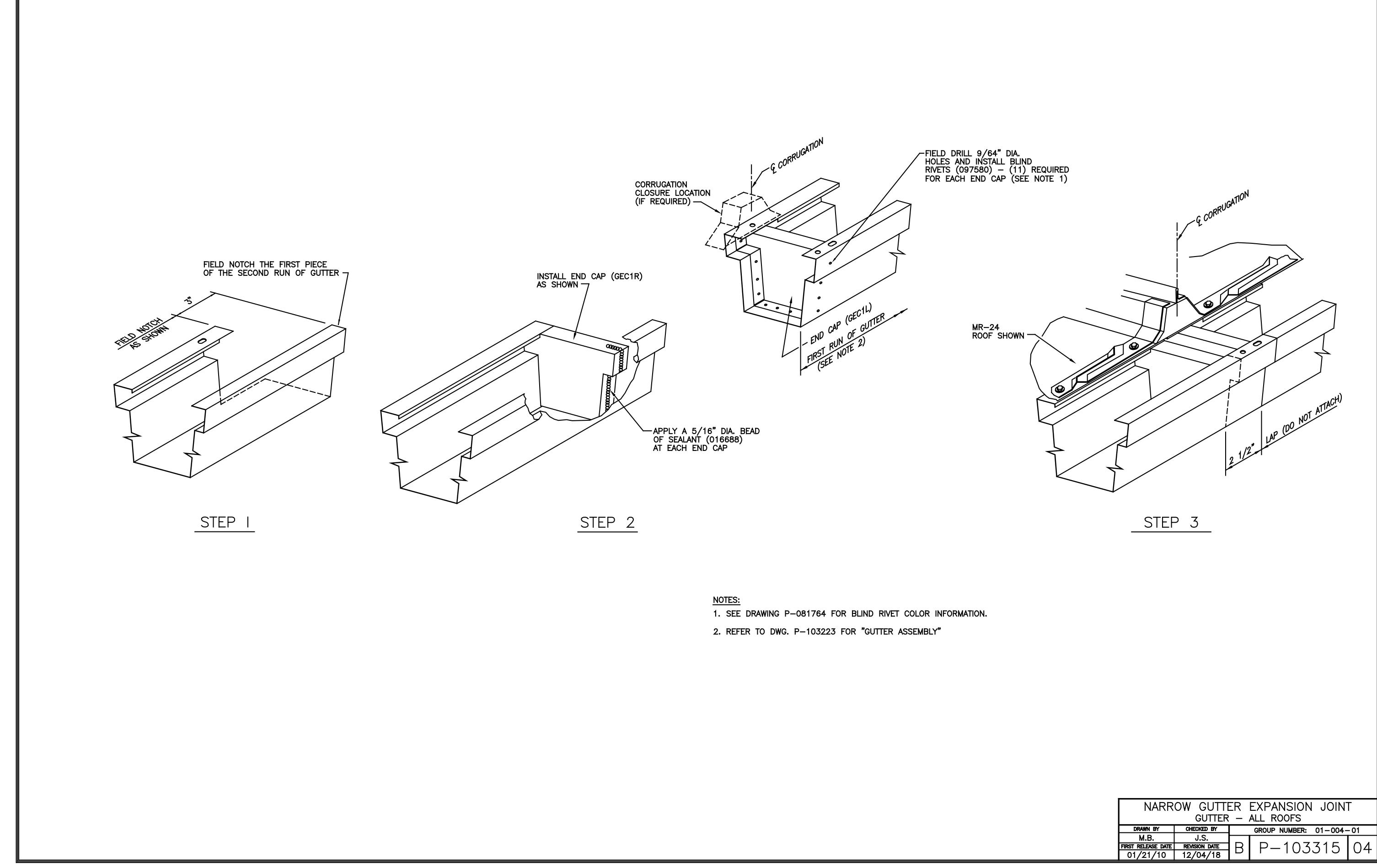
	TAPE MASTIC
PART MARK	DESCRIPTION
025390	3/16" X 1/4" X 40' ROLL (10 ROLLS PER BOX)
027893	1/8" X 1" X 25' (5 ROLLS PER BOX)
042715	1/8" X 1 1/2" X 40' ROLL
042717	1/8" X 1" X 2'-0 1/4" STRIP (64 STRIPS PER BOX)
541063	1/8" X 3 7/8" X 10" ROLL FOIL STRIP (5 ROLLS PER CARTON)
560562	1/16" X 1" X 40' ROLL (5 ROLLS PER BOX)
560564	3/16" DIA. X 40' ROLL (10 ROLLS PER BOX)

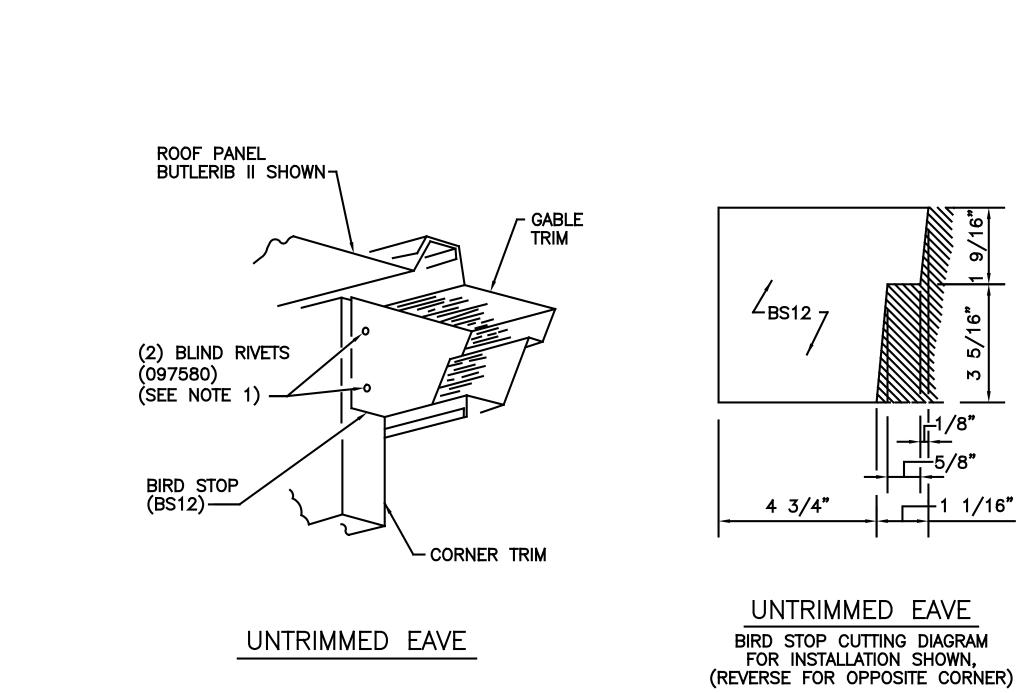
	PANEL CLOSURES
PART MARK	DESCRIPTION
026648	OPT. BUTLERIB RUBBER BASE CLOSURE 3'
026649	OPT. BUTLERIB FOAM BASE CLOSURE 3'
026654	BUTLERIB RUBBER ROOF CLOSURE 10 23/32"
560000	MR-24 RUBBER CORRUGATION CLOSURE
560158	MR-24 LOCK SEAM PLUG
560348	MR-24 PLASTIC CORRUGATION CLOSURE
570452	OPT. STYLWALL FLUTED FOAM WALL CLOSURE 2'-8"
570555	BUTLERIB OUTSIDE FOAM WALL CLOSURE 3'
570597	STYLWALL FLAT FOAM BASE CLOSURE 1'-4"
570674	STYLWALL FLUTED FOAM BASE CLOSURE 1'-4"
570730	OPT. SHADOWALL RUBBER BASE CLOSURE 10 11/16"
570731	OPT. SHADOWALL FOAM BASE CLOSURE 3'
570776	SHADOWALL OUTSIDE FOAM WALL CLOSURE 3'
ARPCPG	VSR II CORRUGATION CLOSURE
ARPHCP	VSR II HIP CORRUGATION PLUG 3'
BRCCL12	BUTLERIB CANOPY CLOSURE 12'
BRCL10A	OPT. BUTLERIB WALL CLOSURE 10' .75:12-3:12
BRCL10B	OPT. BUTLERIB WALL CLOSURE 10' 3.1:12-4:12
BRCL12	OPT. BUTLERIB WALL CLOSURE 12' .25:12-1:12
BRCLE12	VSR II EAVE CLOSURE 12' W/BUTLERIB WALL
CLE12A	BUTLERIB EAVE CLOSURE 12', 6 3/4"
CLE12B	BUTLERIB EAVE CLOSURE 12" W/BUTLERIB OVER 4:12, SHADOWALL OVER 1/2:12
CLE12C	MR-24 EAVE CLOSURE 12' W/STYLWALL OR SHADOWALL
CLE12D	MR-24 EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL
CLE1A	MR-24 EAVE CLOSURE 12' W/BUTLERIB
CLP2	MR-24 PANEL CLOSURE 2'-1 1/2"
MRCLE12A	CMR-24 EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL 10 3/4"
MRCLE12B	CMR-24 EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL 1'-1 3/4"
SHCL12	OPT. SHADOWALL WALL CLOSURE 12' .25:12-4:12
SHCLE11A	VSR II EAVE CLOSURE 11' W/SHADOWALL
SIIC12A	VSR II EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL OR FLAT STYLWALL
SIIC12B	VSR II EAVE CLOSURE 12' W/FLUTED STYLWALL
SIICLB1A	STYLWALL FLUTED METAL TRANSITION BASE CLOSURE 1'-4"
SIICLB1B	STYLWALL FLAT METAL TRANSITION BASE CLOSURE 1'-4"
TLCLB	BUTLERIB WITH TLS PARTIAL WALL HEIGHT EAVE CLOSURE
TLCLM	MR-24 WITH TLS PARTIAL WALL HEIGHT EAVE CLOSURE
TLCLV	VSR II WITH TLS PARTIAL WALL HEIGHT EAVE CLOSURE

BMC	COMMON	WA	REHOUSE PARTS	
DRAWN BY	CHECKED BY		GROUP NUMBER:	
BJF				
FIRST RELEASE DATE	REVISION DATE	RI	P-081764	1 7
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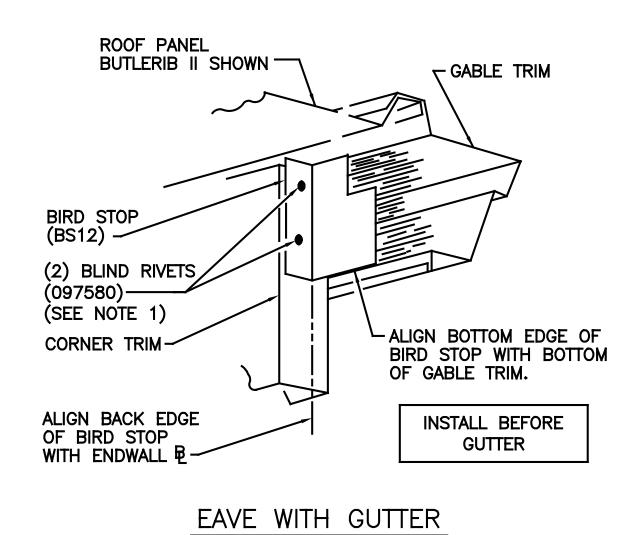


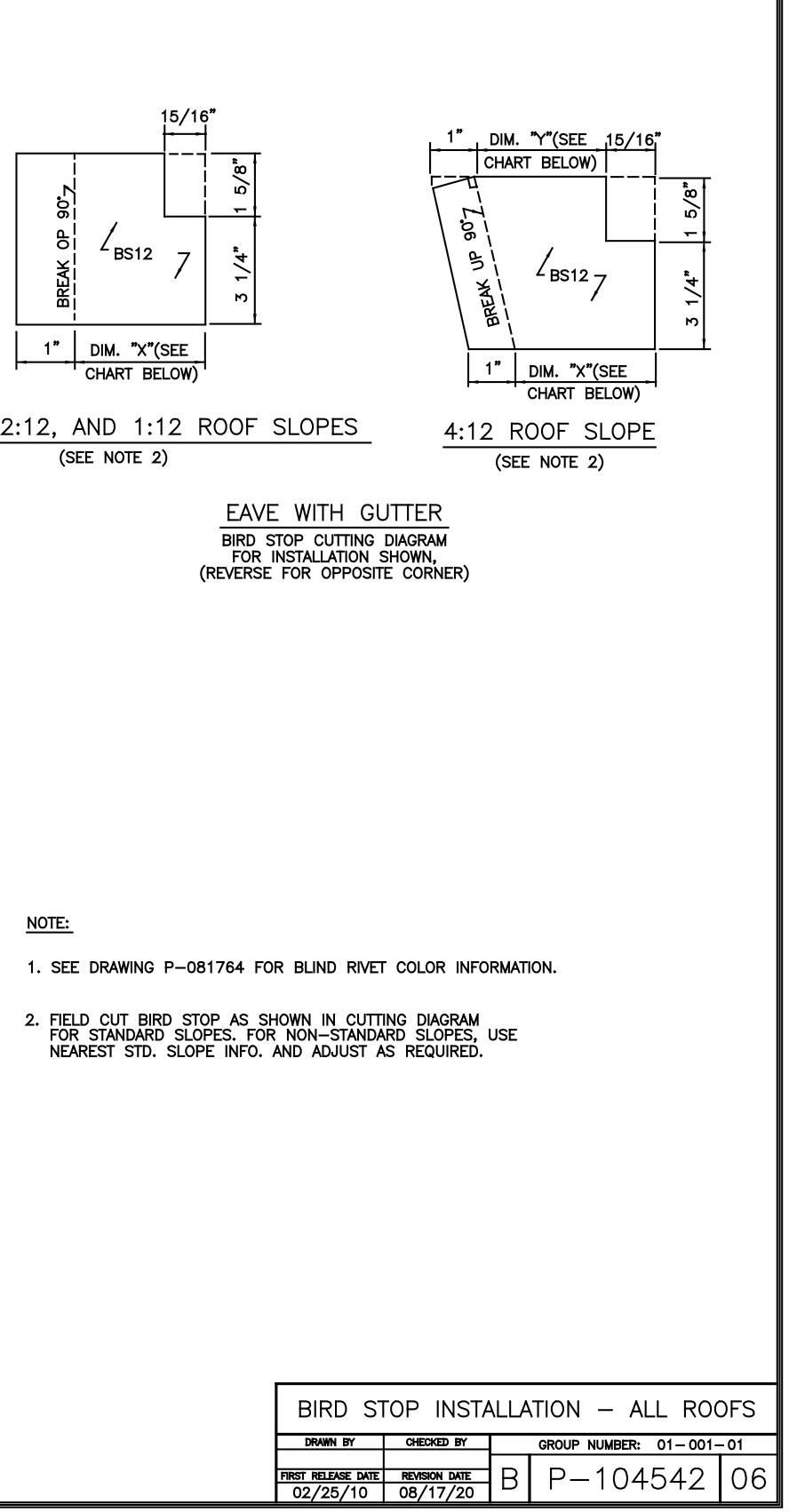


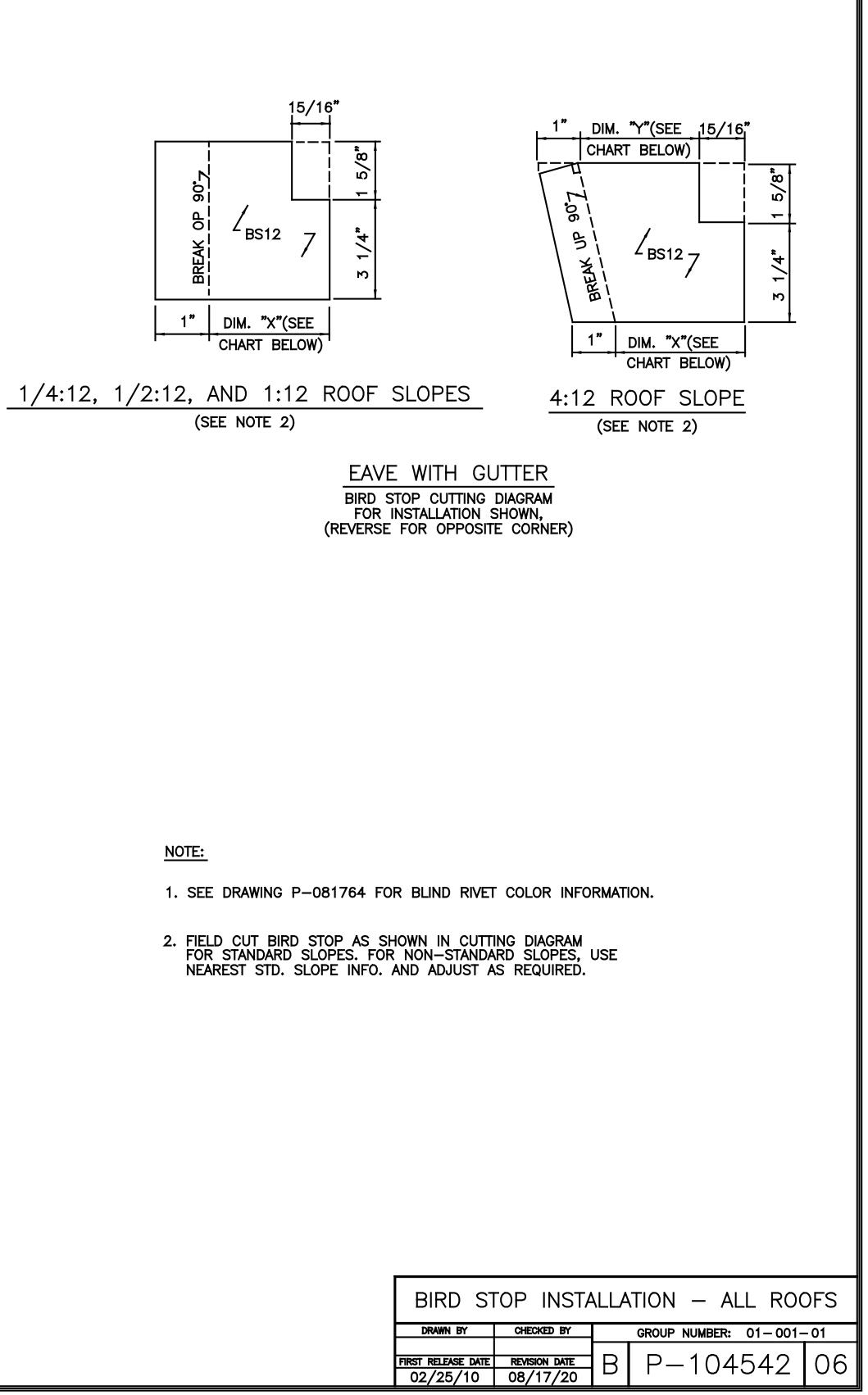
	CUTTIN	G
WALL	_	1/
BUTLERIB II OR	SHADOWALL	
SHADOWALL	-	
	2"	
INSULATED	2 1/2"	
WALL PANEL	3"	
	4"	
	2"	
	2 1/2"	
INSULATED WALL PANEL	3"	
	4"	
STYLWALL II	HIGH CORR.	
STILWALL II	LOW CORR.	



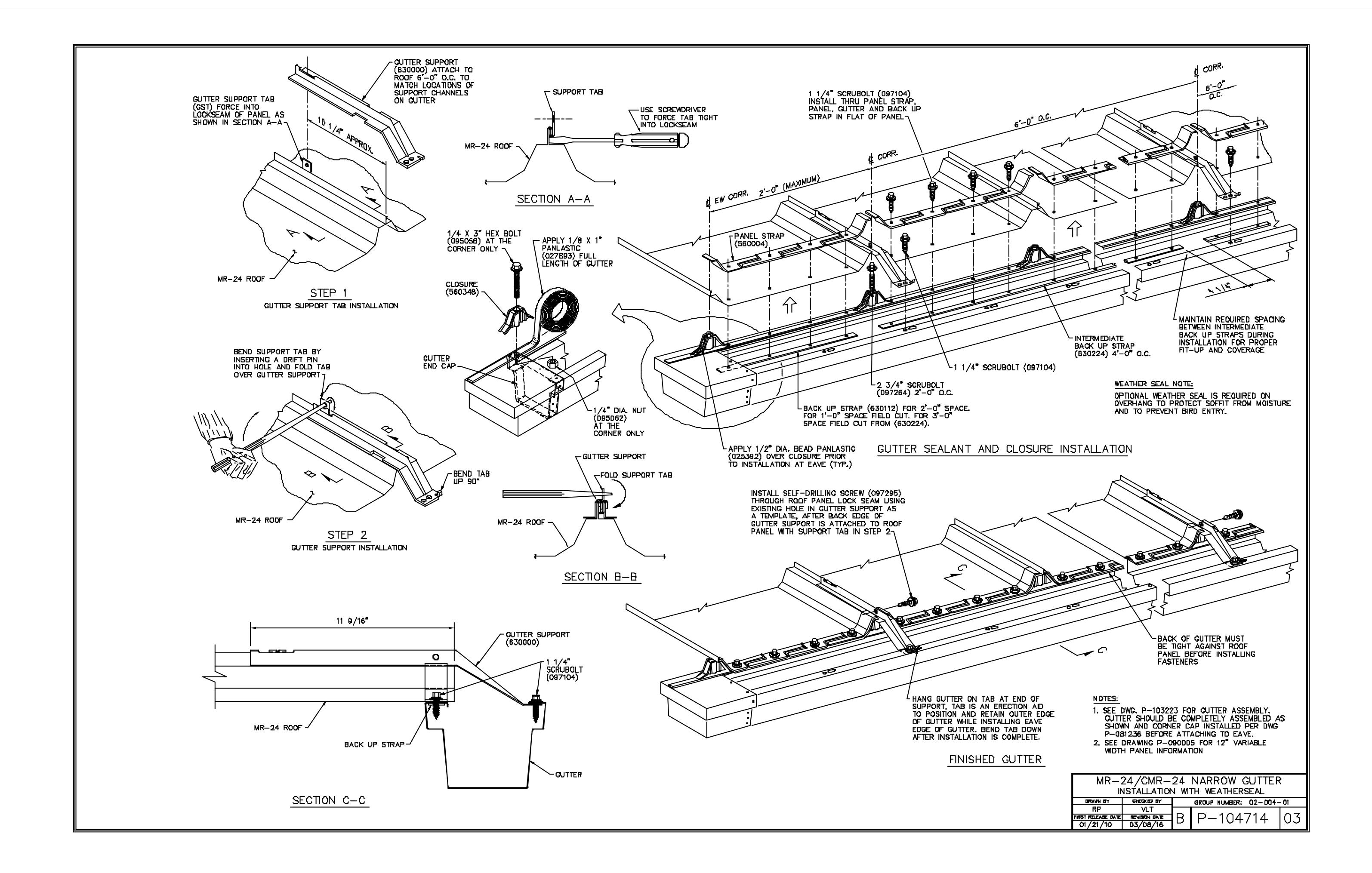


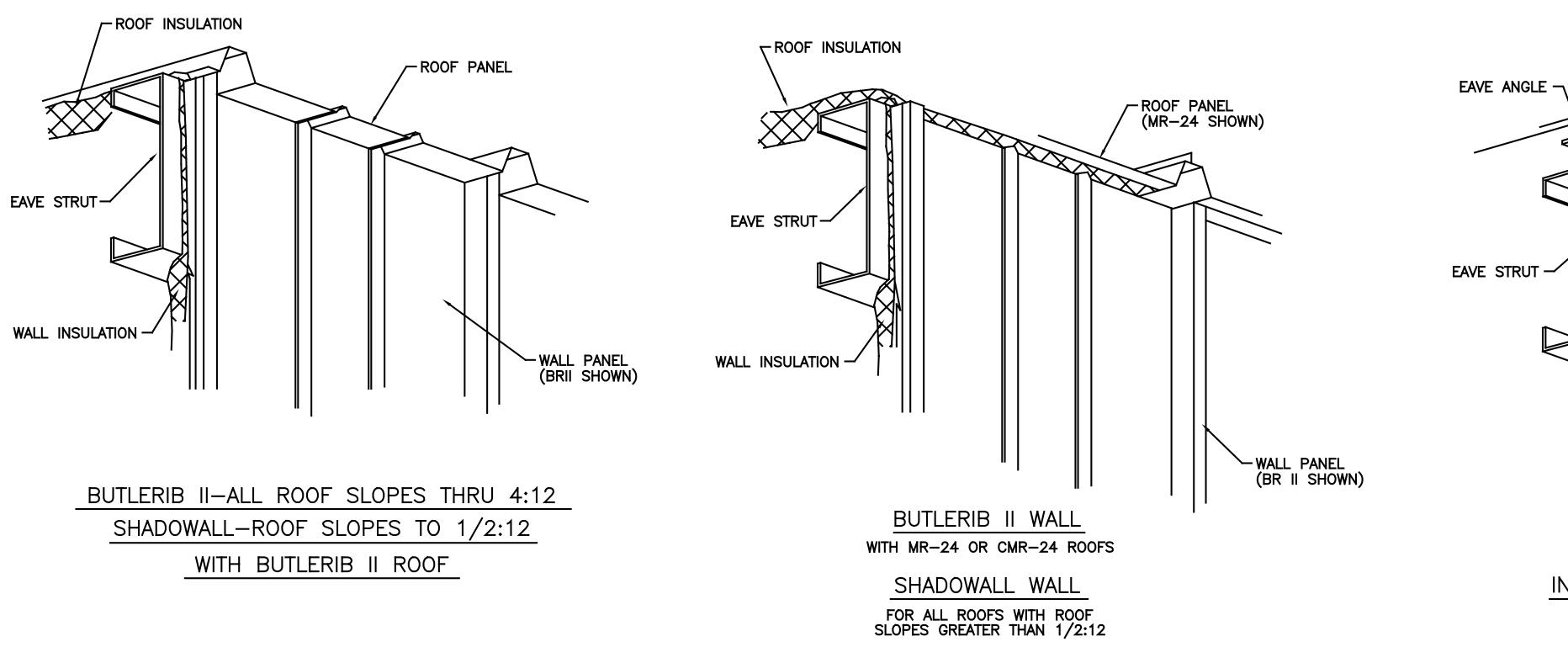


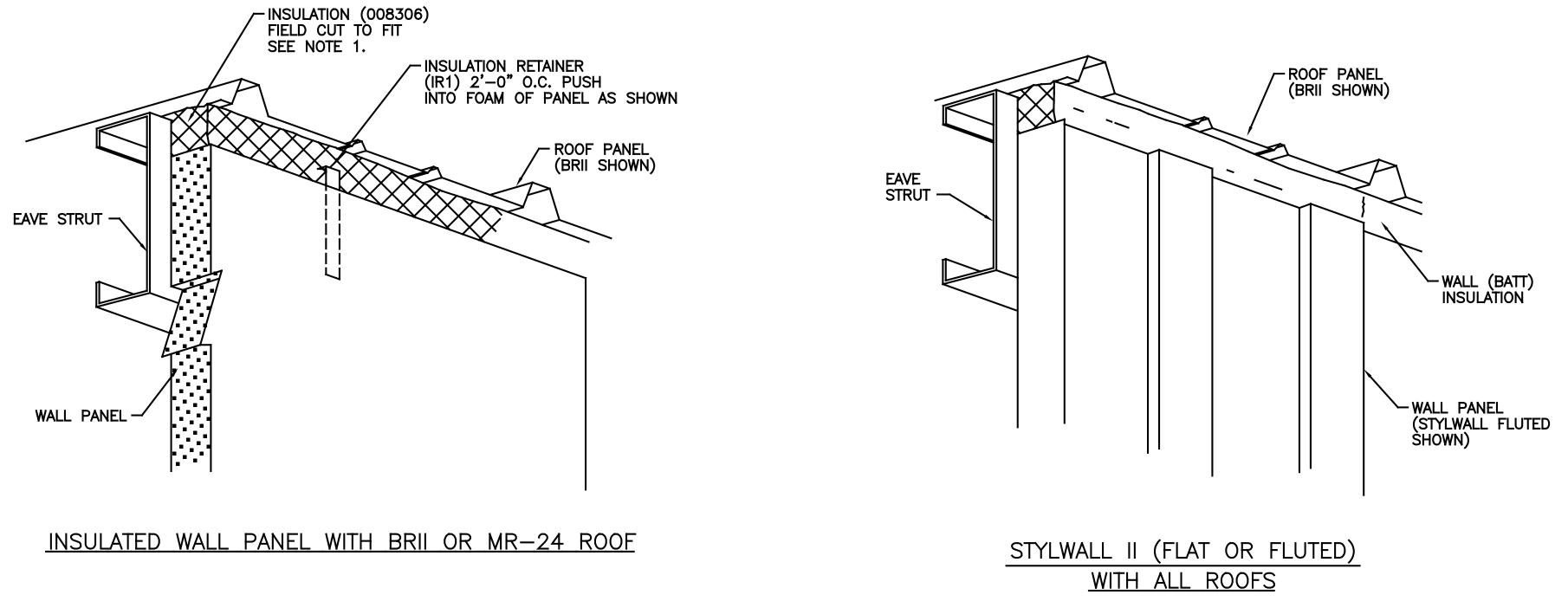


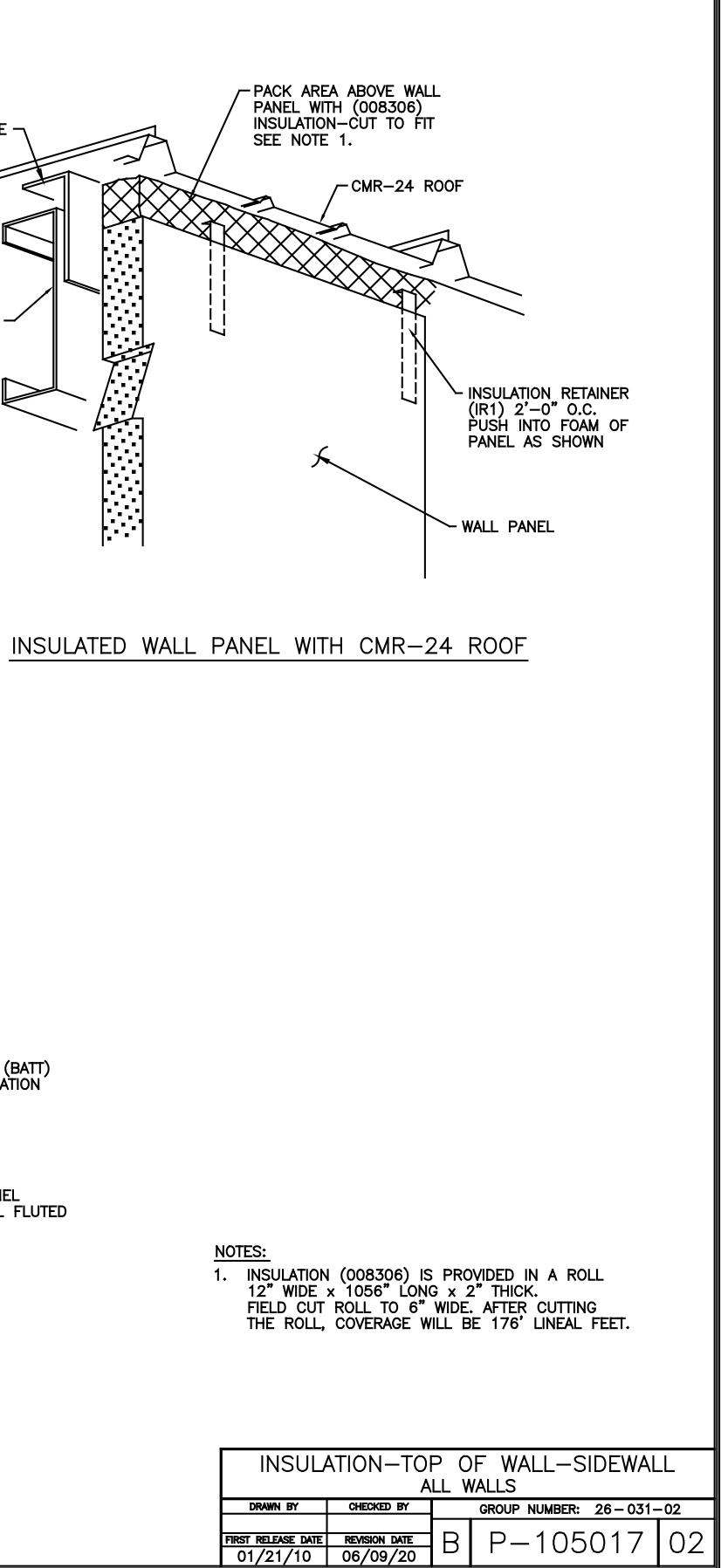


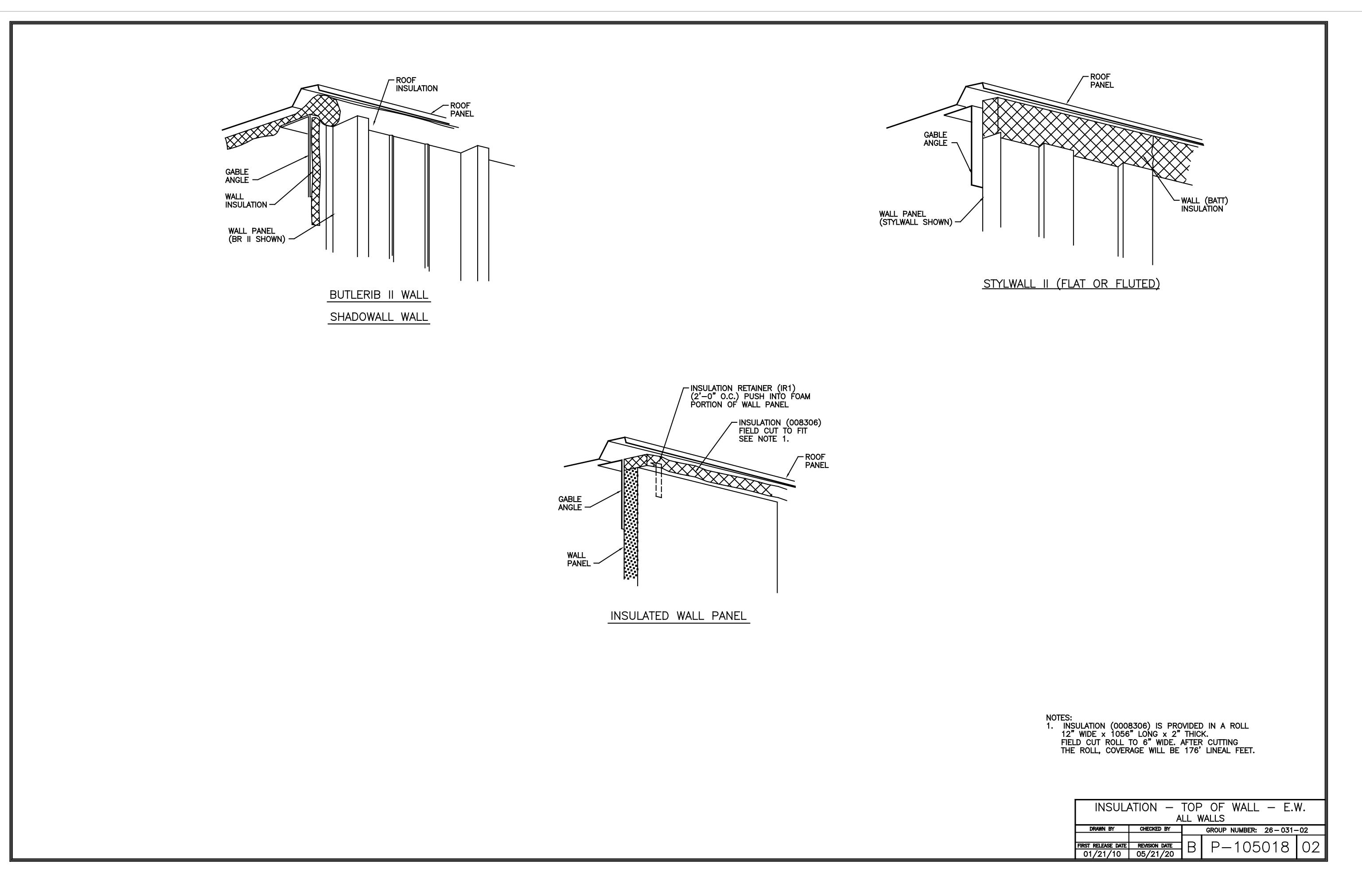
DIMENSIONS 1/4, 1/2, AND 1:12 4:12 ROOF SLOPE DIM. "X" DIM. "Y" DIM. "X" 3 1/8" 1 3/4" 2 3/8" 1 3/4" 2 3/8" 3 1/8" 1 1/4" 1 7/8" 2 5/8" 2 1/8" NOT AVAILABLE 1 1/4" 1 7/8" 1 5/8" 5/8" NOT AVAILABLE 1/4" 7/8" 2 1/8" 1 5/8" NOT AVAILABLE 5/8" NOT AVAILABLE NOT AVAILABLE 2 5/8" NOT AVAILABLE 3 1/8" NOT AVAILABLE

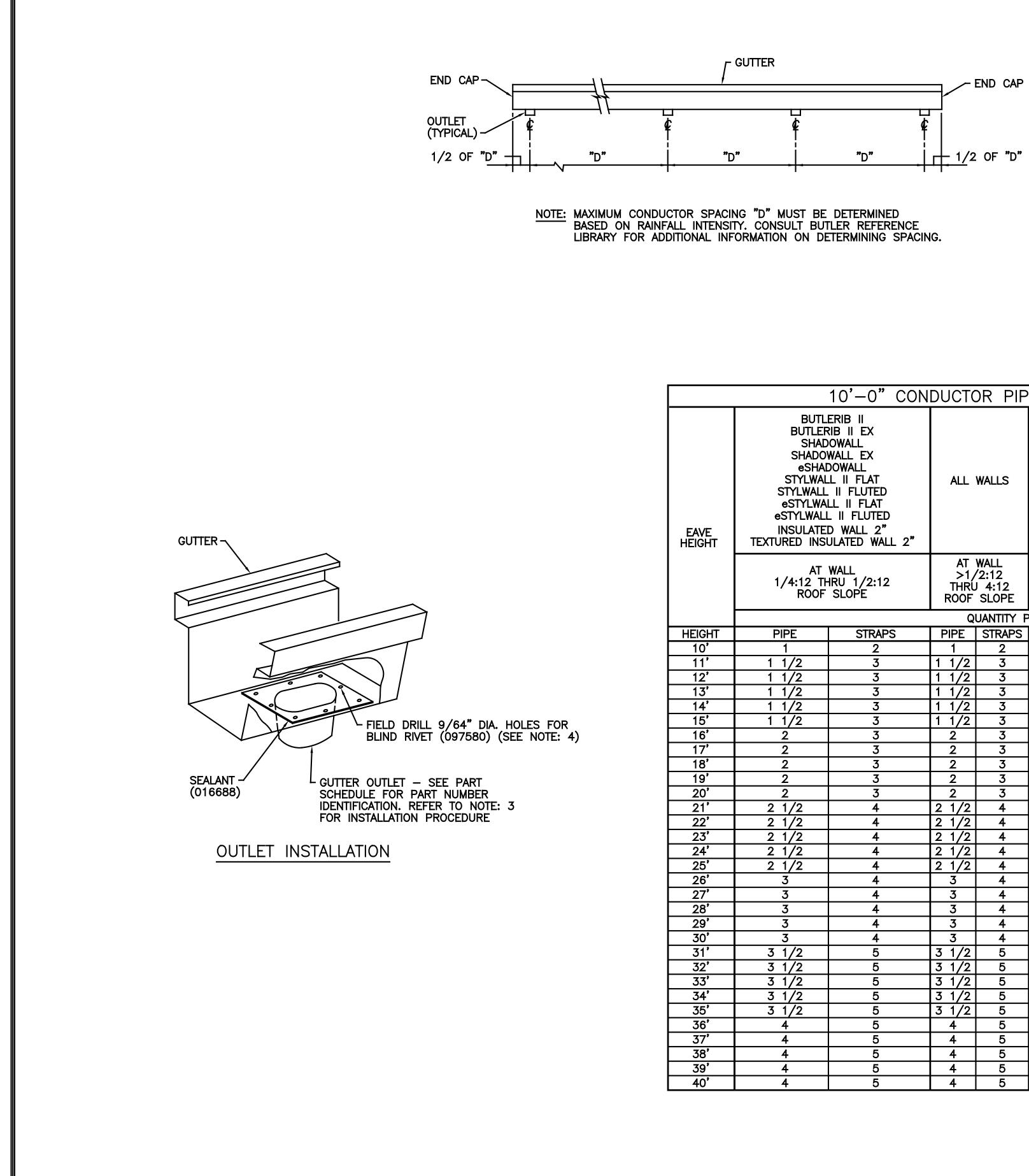












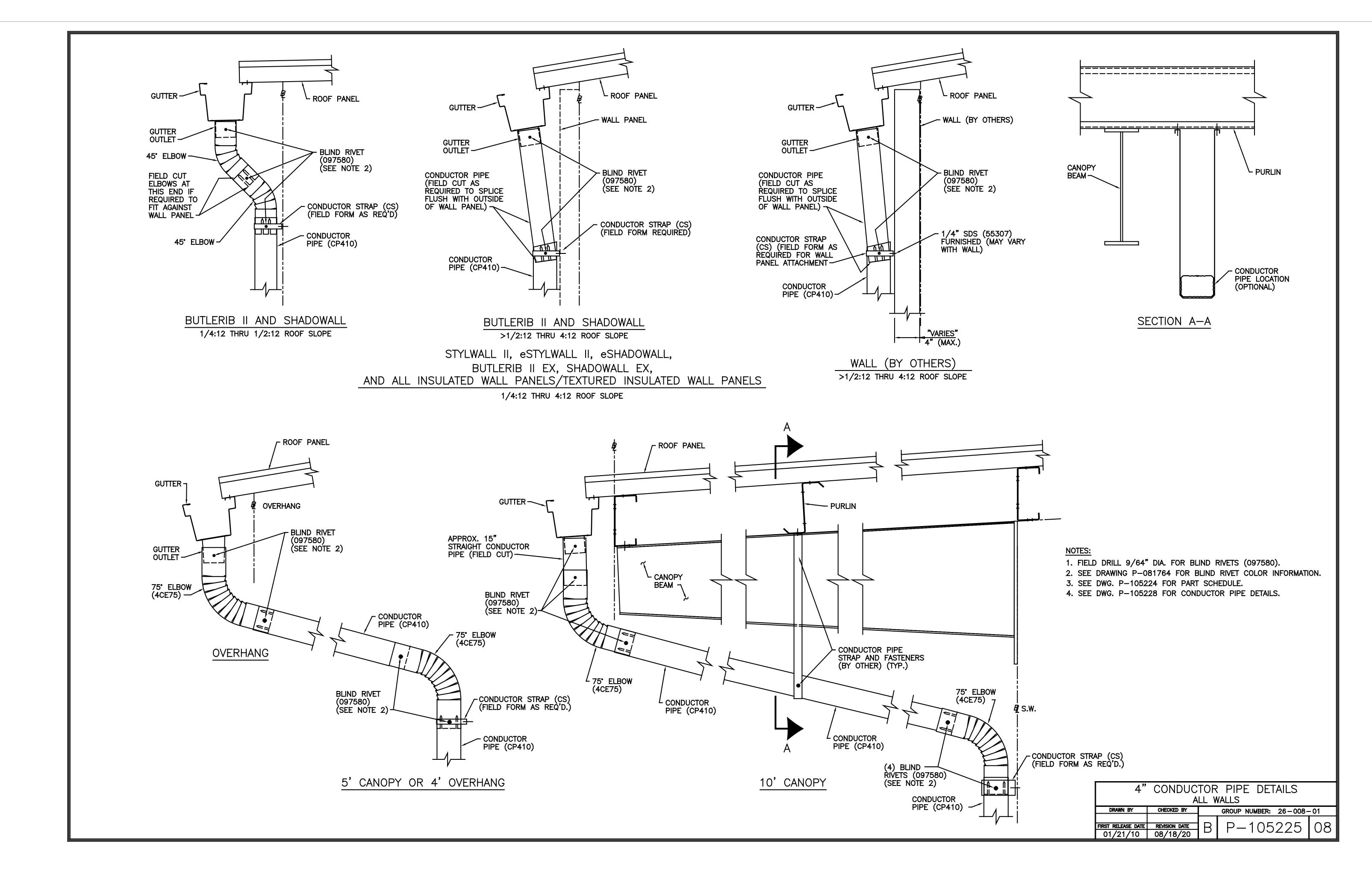
10'-0" CONDUCTOR PIPE AND STRAPS									
EAVE HEIGHT	BUTLER SHAD SHADOV eSHAE STYLWAL STYLWALL eSTYLWALL ESTYLWALL INSULATEI	ERIB II RIB II EX OWALL WALL EX DOWALL L II FLAT II FLUTED LL II FLAT II FLUTED D WALL 2" JLATED WALL 2"	ALL WALLS		4'-0" OVERHANG		5'-0" OR 10'-0" CANOPY		
	1/4:12 T⊦	WALL IRU 1/2:12 SLOPE	>1/ THRU ROOF	AT WALL >1/2:12 THRU 4:12 ROOF SLOPE					
			Q	UANTITY F	PER OUTI	ET			
HEIGHT	PIPE	STRAPS	PIPE	STRAPS	PIPE	STRAPS	PIPE	STRAPS	
10'	1	2		2	1 1/2	2	2 1/2	2	
11'	1 1/2	3	1 1/2	3	2	3	3	3	
12'	1 1/2	3	1 1/2	3	2	3	3	3	
13'	1 1/2	3	1 1/2	3	2	3	3	3	
14'	1 1/2	3	1 1/2	3	2	3	3	3	
15'	1 1/2	3	1 1/2	3	2	3	3	3	
16'	2	3	2	3	2 1/2	3	3 1/2	3	
17'	2	3	2	3	2 1/2	3	3 1/2	3	
18'	2	3	2	3	2 1/2	3	3 1/2	3	
19'	2	3	2	3	2 1/2	3	3 1/2	3	
20'	2	3	2	3	2 1/2	3	3 1/2	3	
21'	2 1/2	4	2 1/2	4	3	4	4	4	
22'	2 1/2	4	2 1/2	4	3	4	4	4	
23'	2 1/2	4	2 1/2	4	3	4	4	4	
24'	2 1/2	4	2 1/2	4	3	4	4	4	
25'	2 1/2	4	2 1/2	4	3	4	4	4	
26'	3	4	3	4	3 1/2	4	4 1/2	4	
27'	3	4	3	4	3 1/2	4	4 1/2	4	
28'	3	4	3	4	3 1/2	4	4 1/2	4	
29'	3	4	3	4	3 1/2	4	4 1/2	4	
30'	3	4	3	4	3 1/2	4	4 1/2	4	
31'	3 1/2	5	3 1/2	5	4	5	5	5	
32'	3 1/2	5	3 1/2	5	4	5	5	5	
33'	3 1/2	5	3 1/2	5	4	5	5	5	
34'	3 1/2	5	3 1/2	5	4	5	5	5	
35'	3 1/2	5	3 1/2	5	4	5	5	5	
36'	4	5	4	5	4 1/2	5	5 1/2	5	
37'	4	5	4	5	4 1/2	5	5 1/2	5	
38'	4	5	4	5	4 1/2	5	5 1/2	5	
39'	4	5	4	5	4 1/2	5	5 1/2	5	
40'	4	5	4	5	4 1/2	5	5 1/2	5	

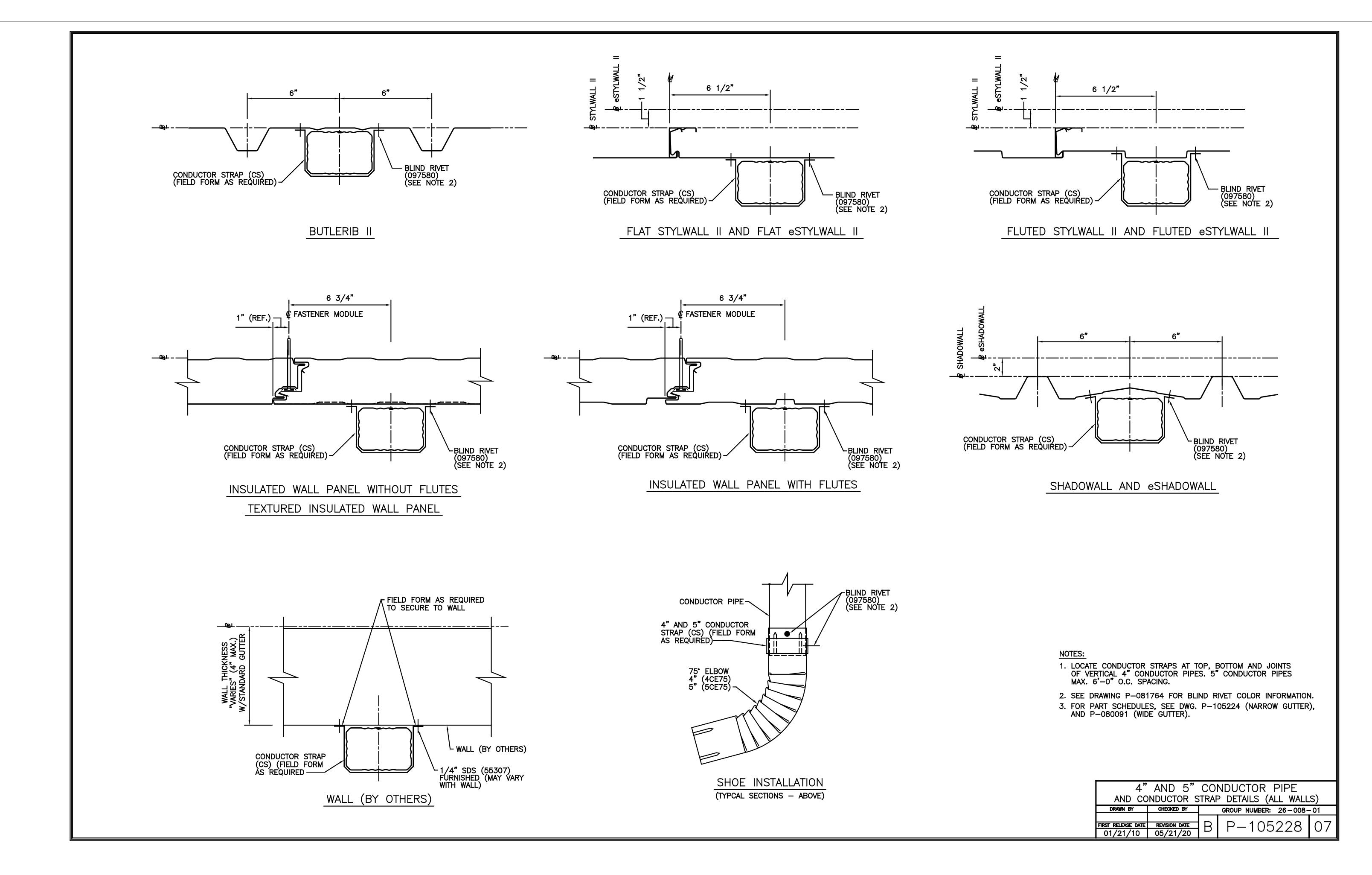
	PART SCHEDULE
PART NUMBER	DESCRIPTION
CP410	CONDUCTOR PIPE
4CE45	45° ELBOW
008738	GUTTER OUTLET 1/4:12 THRU 1/2:12
4CE75	75° ELBOW
016688	GRAY SEALANT
CS	CONDUCTOR STRAP (FIELD FORMED)
640432	GUTTER OUTLET - >3:12 THRU 4:12
640492	GUTTER OUTLET $- >1/2:12$ THRU 3:12

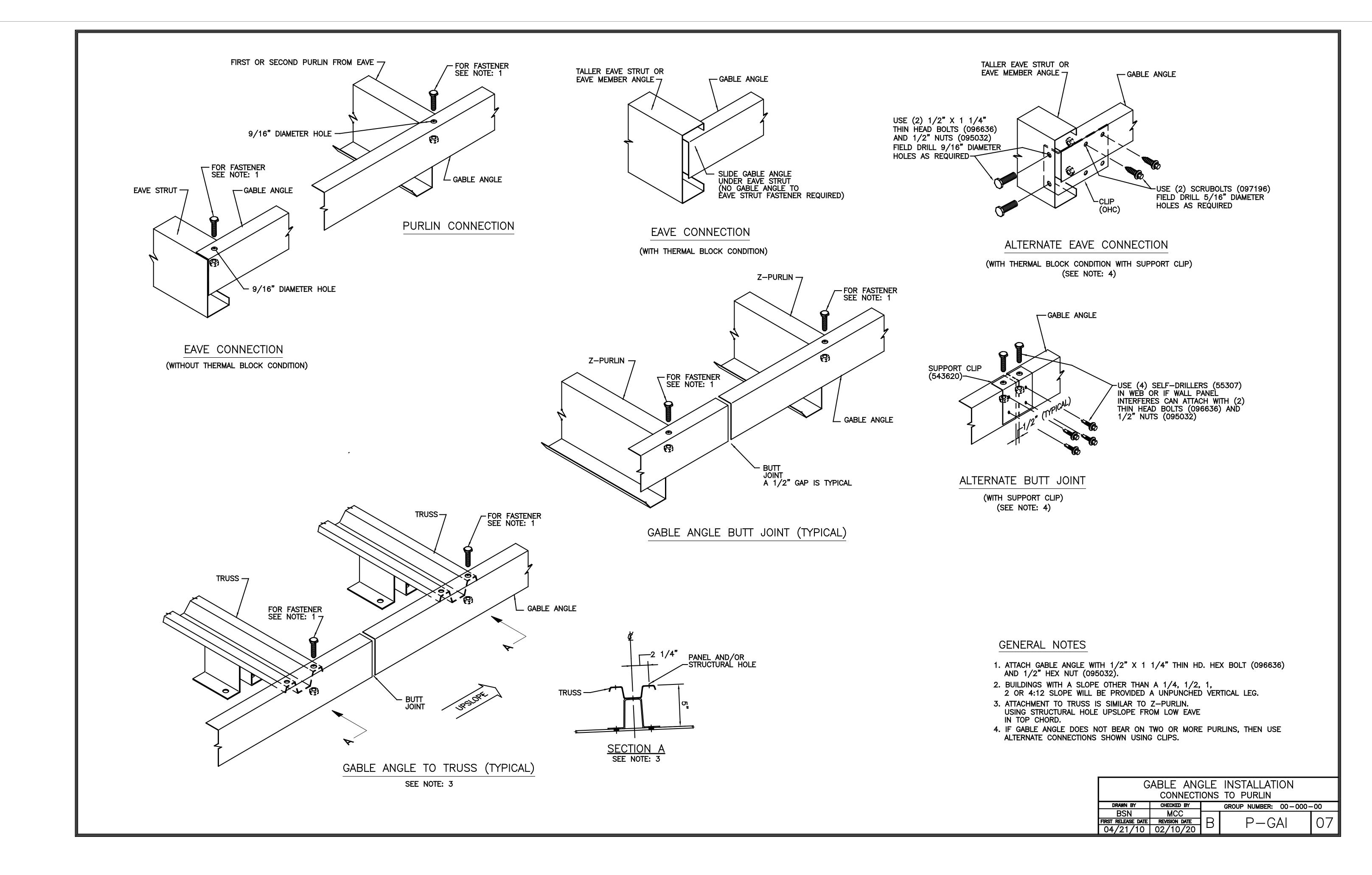
NOTES:

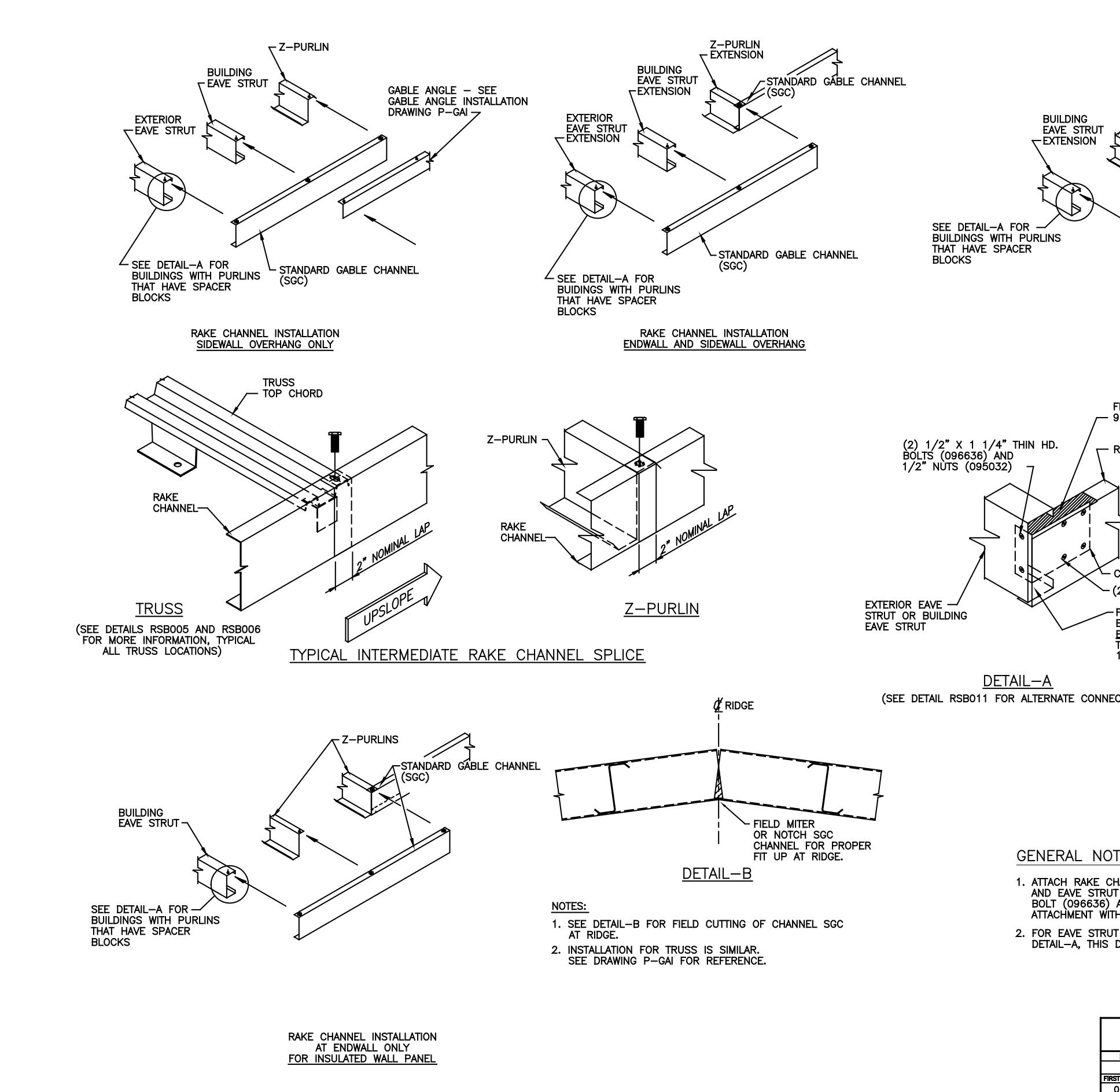
 CONDUCTOR PIPE (CP410) FURNISHED IN 10'-0" LENGTHS ONLY. FIELD CUT TO LENGTHS REQUIRED.
 USE (2) BLIND RIVETS AT EACH PIPE JOINT.
 USING GUTTER OUTLET AS A PATTERN. FIELD CUT GUTTER FOR PROPER FIT. APPLY 016688 SEALANT TO UNDERSIDE OF OUTLET LIP AND ATTACH WITH (8) BLIND RIVETS. <u>IMPORTANT:</u> BE SURE TO ORIENT GUTTER AND GUTTER OUTLET PROPERLY PRIOR TO ATTACHMENT. 4. SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION. 5. FOR CONDUCTOR PIPE DETAILS SEE DRAWINGS P-105225 AND P-105228.

4" CONDUCTOR PIPE INSTALLATION ALL WALLS						
DRAWN BY	CHECKED BY		GROUP NUMBER: 26-008-	- 01		
RHE	BJF	_				
FIRST RELEASE DATE	REVISION DATE	R	P-105224	07		
01/21/10	05/06/20			07		

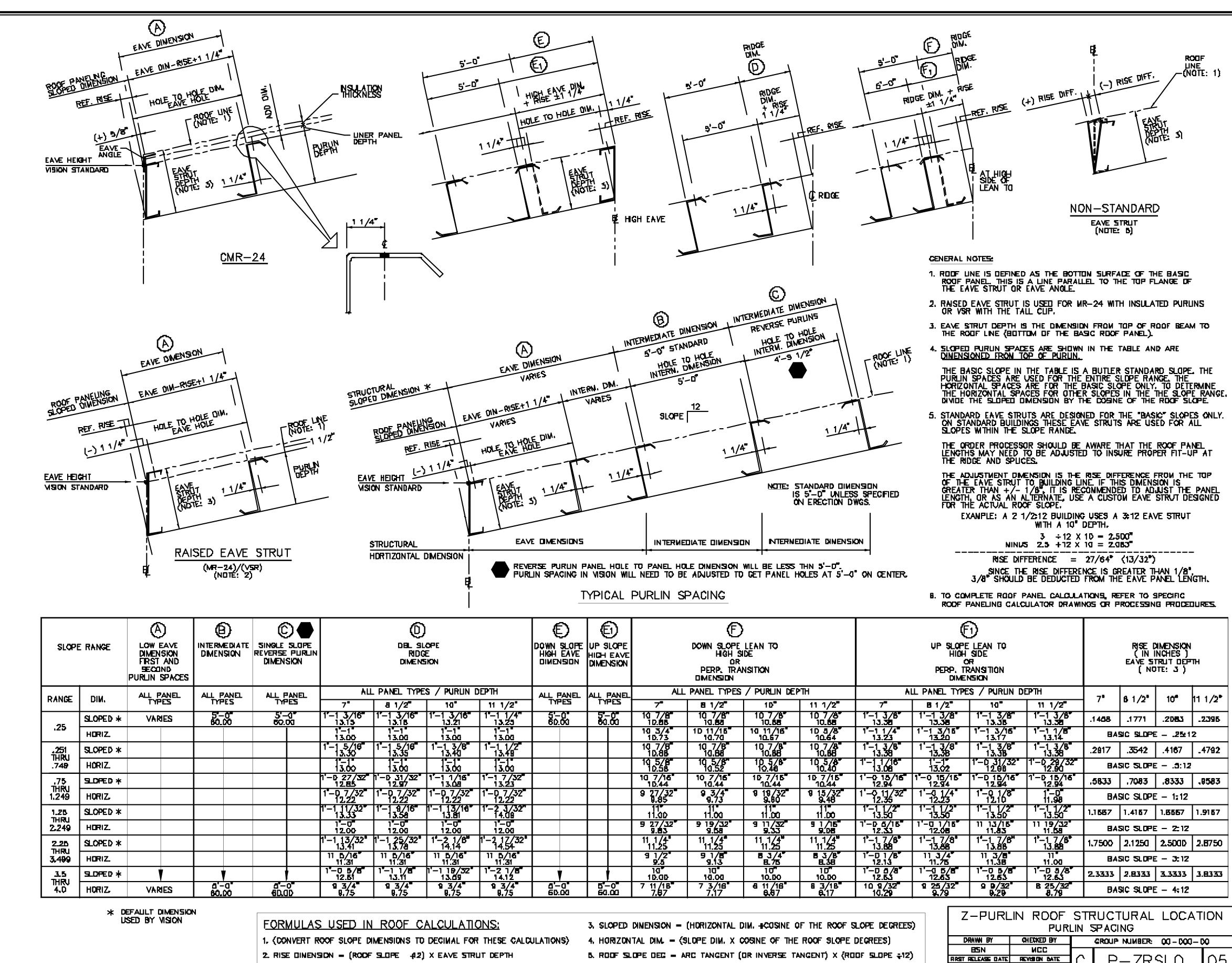








	Z-PURLIN EXTENSION	SGO	NSTALLATION	L
	<u>ENDWALL</u>	OVERI	HANG ONLY	
FIELD NOTC 9" FOR CLI				
RAKE CHAN	NEL			
	DLTS (097196 6 ^{°°} DIA. HOLE ^{°°} <u>RAKE CHANI</u> I FOR 1/2 ^{°°} 3 BOLT (096636 (095032).	•	ND 1/4"	
			URLIN EXTENSION 1/4" THIN HEAD CLUDING EAVE STRUT	
RAK			VITH OUT FASCI	A
drawn by BSN RST release date	CHECKED BY RHE REVISION DATE	\cap	GROUP NUMBER: 00-000	
01/21/10	05/02/19	С		



ŞLOPE		DIMENSION FIRST AND SECOND PURLIN SPACES		DIMENSION		DIMENSKON			
RANGE	DIN.	ALL F TYF	'ANEL "ES	ALL PANEL TYPES		ALL PANEL TYPES		7*	ALL
	SLOPED *	VAR	VARIES		5-0 60.00		5'-0" 60.00		,
.25	HORIZ.							13.15 1-1 13.00	
.251 Thru	SLOPED *							1 –1 5/16 13.30	, ,
.749	hûriz.							1-1 13.00	
.75	SLOPED *							1'-6 27/3 12.85	
THRU 1.249	HORIZ,							1 - 0 7/3 12.22	2
1.25 THRU	SLOPED *							1'-1 11/3 13.33	2*
2,249	HORIZ.							1 – 0 12.00	
2.25 THRU	SLOPED *							1'-1 13/3 13.41	2"
3,499	HORIZ.							11 5/16" 11.31	
3.5 THRU	9LDPED *					T		1 -0 5/2 12.51	
4,0	horiz,	VAR	des	රු - සිට.	.a* 00	5-0 60.00		1 <u>3/4</u> 9,75	
		efallt (Sed by)		N		1. (CON	vert r	SUSED OOF SLOPE IDN - (RC	: Din

Ľ	IN ROOF	STF	RUCTURAL LOCAT	ION			
	PURLIN SPACING						
	CHECKED BY		GROUP NUMBER: QQ - QQQ - I	8			
	ИСС			05			
E	REVISION DATE		P-ZRSLO				
	11/06/14	\sim					

01/21/10