

Trenco 818 Soundside Rd Edenton, NC 27932

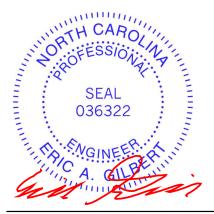
Re: 24120115-01 58 Magnolia Acres-Roof-Greyson EC SP 3CG SL GLH

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I72839392 thru I72839392

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



April 18,2025

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

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The Capacity Space ALCS 1000000000000000000000000000000000000	24120115-0	1 A		Attic		4	1	Job Reference (optional)	172839392
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Cale = 17.4.8 6-3-2 5-3-2 18-4-8 5-3-2 6-3-2 ate Offsets (X, Y): [2:0-214.0-2-8], [6:0-2-8:0, C2-8], [7:0-5-40-2-12], [9:0-5-4.0-2-12], [9:0-5-4.0-2-12], [1:0-4-13, 0-2-8], [1:4-0-2-8], [1:0-3-8, 0-6-8], [2:0-3-80-6-8] Example PLATES GRIP Stading (n) Pleic Gip DOL 1.15 TC 0.71 Vert(L1) -0.38 1:20 - 273 180 MT20 244/190 Stall Orde Vert(L1) -0.38 1:20 - 277 180 MT20 244/190 Dic 0.00 Code IRC2201/TPI2014 TC 0.71 Vert(L1) -0.38 1:20 - 277 180 MBER 2.02 2.05 P X0.02 Execpt 4-7,9-122:x6 SP X0.02 20 Vert(L1) -0.38 1:20 - 278 880 Vert(L1) -0.25 1.72.0 >788 860 DP CHORD 2.05 P 2400 F 2.0E 2.05 P 2.05 P 1.0E 2.0					IN EACH COVERED T		R. USE 2" MEI			39-5-0
are Offsets (X, Y): [20-2:4:40-2:8]; [60-2:8:0:2:8]; [20-3:8:0:6:8]; axing (L) (cord) (cord) (cord) (cord) [20-3:8:0:6:8]; [Cord] [Mark>4:1:0:-0:3:1:1:7:20:-999 [Mark>4:1:0:-0:3:1:7:20:-9773: 180; (Cord) (cord) (cord) (cord) [Ric2021/TPI2014] [Wind: ASCE 7-16; Yull=130mph (3:second gust)] [Weight: 380 lb FT = 20% MBER 20:0 2:0:0 (cord) (cord) (cord) [Wind: ASCE 7-16; Yull=130mph (3:second gust)] [Weight: 380 lb FT = 20% MBER 20:0 2:0:0 (cord)										
Constructure Spacing (r)		(, Y): [2:0-2-14.0-2-8	1. [6:0-2-8.0-2-8]. [7	:0-5-4.0-2-12]. [9:0-5-4	1.0-2-12]. [10:0-4-13.0	-2-8]. [14:0-2	-14.0-2-8]. [1]	7:0-3-8.0-6-8]. [20:0-3-8.)-6-8]	
CLL (moh) 20.0 Plate Grip POL 1.15 C 0.71 Ver(T) -0.68 17.20 >289 240 DDL 10.0 Code IRC2021/TPI2014 WBit 0.65 Wer(T) -0.04 14 n/a n/a DL 10.0 Code IRC2021/TPI2014 WBit 0.65 Hor(T) -0.25 17.20 >788 360 PC HORD 20.5 T Code Virol: ASCE 7-16; Vult=130mph (3-second gust) Vasal-103mph; (3-second gust)			1						1	
DL 10.0 Rep Briess Incr YES WB 0.65 Horz(C1) 0.0.4 14 n/a n/a DL 10.0 Code IRC2021/TPI2014 Matrix-MSH Artic -0.25 17-20 >788 360 DP CHORD 2x6 SP No.2 * Except* 4-7,9-12:2x6 SP 2400 F 200 Vindt ASCE 7-16; Vult=130mph (3-second gust) VascH 103mph (3-second gust)	oading CLL (roof)		1					()		
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 MBER PC CHORD 2x6 SP No.2 * Except* 4-7,9-12:2x6 SP 2400F 2.0 E Wind: ASEE 7-16; Vull=130mph (3-second gust) Vasd-103mph; TCDL=6,0sf, BCDL=6,0sf, h=25f; Cat. I; Exp B; Enclosed; MWFRS (cervelope) exterior zone and C-C Exterior(ZE) -0-10-8 to 3-0:13, interior (1) 29-7 to purlins (except) 29-7 to 20-23, 14-0-3-8 Max Grav 2-2250 (LC 48), 14-2250 (LC 48) 11-12-20054, 11-13-3789/0, 15-11-230054, 11-13-3789/0, 15-11-230054, 11-17-39302, 15-21-236/3010, 12-21-36/3010, 17-220-2029, 23-3-7720, 728-3277/0, 15-14-3770, 14-50-239 30-00-00 tall by 2-00-00 wide will fit between the bottom chord and alog do prevent with any other live loads. 9 This truss has been designed for a 10x of previon will fit between the bottom chord and alog do previon will fit between the bottom chord and alog (5, 0, psf) on member(s). 15-228-32770, 27-28-32770, 10-278-32390, 7-28-32770, 10-278-32390, 7-28-32770, 10-278-3290, 7-28-32770, 10-278-3290, 7-28-32770, 10-27	BCLL		1 '				· · /			
PP CHORD 2x6 SP No.2 * Except 4-7,9-12:2x6 SP 2400F 20E 2x10 SP 2400F 2.0E EBS 2x4 SP No.3 * Except 6-10:2x4 SP No.2 2x4 CNO 2x4 SP No.3 * Except 6-10:2x4 SP No.2 2x4 CNO Structural wood sheathing directly applied or 10-0-0 or bracing. 2-97 or putinis, except 2-0-36 putinis, except 2-0 or putinis, except 2-0-38, 14=0-3-8 2-0-2-20 (IC CB) 15: Is 10: Rough texp, texp policit, it 15: Is 10: Rough texp, texp policit, 10: Is 10: Rough texp, texp policit, 10: Is 10: Rough texp, texp policit, 10: Is 10: Rough texp policit, 10: Is 10: Roubing texp policit, 10: Is 10: Roubing texp policit, 1	SCDL	10.0							Weight: 380 lb	FT = 20%
2.0E 2.0E DT CHORD 2.04 SP No.3 "Except" 6-10.2x4 SP No.2 XACING Structural wood sheathing directly applied or 2-9-7 oc purlins, except 2.0 - 0 co purlins (6-0 m ax): 7-9. DT CHORD Structural wood sheathing directly applied or 10-0-0 co braining. 10: 32-76 10: 36-4.3 to 40-34 aco aco: caratilever left and right exposed; card writical left	UMBER			, , , , , , , , , , , , , , , , , , ,						
 2x4 SP No.3 "Except 6-10:2x4 SP No.2 2x4 SP No.3 "Except 6-10:2x4 SP No.2 3x4 SP No.3 "Except 6-10:2x4 SP No.2 3x6 CTORD Rigid celling directly applied or 10:0-0 cept for formations shown: Lumber DOL=1.60 plate grip DOL=1.60 3x1 S 1 Brace at U(g): 26, 27-28 3x7, 28 (b) Naximum Compression/Maximum 6-merssion/Maximum 6-mersion 8-10:0 (20 paf or 10:0 (20 paf or 10:0	OP CHORD		t* 4-7,9-12:2x6 SP	II; Exp B;	Enclosed; MWFRS (e	nvelope) ext	erior zone			
 Structural wood sheathing directly applied of 2-9-7 oc purlins, except 2-9-7 oc purlins	BOT CHORD				. ,		. ,			
 1 Chick C	BRACING	ZA4 OF NO.5 EXCEP	t 0-10.224 SF NO.2	(1) 29-7-0	6 to 36-4-3, Exterior(2	E) 36-4-3 to 4	10-3-8 zone;			
 2-0-0 ac purlins (6-0-0 max): 7-9. DT CHORD Rigid ceiling directly applied or 10-0-0 ob bracing. EBS 1 Row at midpt 26-28, 27-28 INTS 1 Brace at 1(8): 26, 27, 28 EACTIONS (size) 2=0-3-8, 14=0-3-8. Max Horiz 2=-255 (LC 12) Max Grav 2=2250 (LC 48), 14=2250 (LC 48), 14=2250 (LC 48), 14=2250 (LC 49), 14=2250 (LC 48), 14=230 (LC 48), 14=2250 (LC 48), 14=230 (LC 48), 14=230 (LC 48), 14=230 (LC 48), 14=2250 (LC 48), 14=230 (LC 48), 14=250 (LC 48), 14=2250 (LC 48), 14=250 (LC 48), 14=	OP CHORD		• • • • •							
 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Piate DOL=1.15); Pf=20.0 psf (roof LL: Lum DOL=1.15 Piate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15); Pf=2		2-0-0 oc purlins (6-0)-0 max.): 7-9.			OL=1.60 plat	e grip			
 EBS 1 Row at midpt 26-28, 27-28 DINTS 1 Brace at Jt(s): 26, 27, 28 EACTIONS (size) 2-0-3-8, 14=0-3-8 Max Horiz 2-256 (LC 48), 14=2250 (LC 48) Max Grav 2-256 (LC 48), 14=2250 (LC 48) ORCES (b) - Maximum Compression/Maximum Tension DP CHORD 1-2-0/29, 2-3=-3772/0, 3-5=-3789/0, 10-111-22000; 4, 6-7=-683/300, 7-8=-1016/370, 9-10-683/300, 7-8=-1016/370, 9-10-683/300, 7-8=-1016/370, 9-10-683/300, 7-8=-1016/370, 9-10-683/300, 10-111-22000; 4, 1-13-3-7329/0, 10-113-280-3772/0, 14-15=0/28 DT CHORD 2-21=-36/3101, 20-21=-36/3101, 14-16=0/3101 EBS 3-20=-642/337, 5-20=0/132, 11-17=0/1362, 13-17=-642/337, 5-20=0/132, 11-17=0/1362, 13-16=-560/126, 13-16=-560/126, 13-16=-560/126, 13-16=-560/126 DT ES Unbalanced root live loads have been considered for this cost chord live load (40.0 psf) and additional bottom chord have been considered for live load (40.0 psf) and additional bottom chord have load and (5.0 psf) on member(s). 5-20, 11-17 Di Bottom chord live load (40.0 psf) and additional bottom chord live load (40.0 psf) and additional bottom chord have load and (5.0 psf) on member(s). 5-20, 11-17 Di Bottom chord live load (40.0 psf) and additional bottom chord have load and (5.0 psf) on member(s). 5-20, 11-17 Di Bottom chord live load (40.0 psf) and additional bottom chord have locked for L/360 deflection. Di Arbitri V design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 1/22023 BEPGRE USE. 	OT CHORD		applied or 10-0-0 c	3) TCLL: AS	SCE 7-16; Pr=20.0 psf					
 Case Tions (Size) 2=0-3.8, 14=0-3-8 Max Horiz 2=-255 (LC 48), 14=2250 (LC 48) Case Tions (b) - Maximum Compression/Maximum Tension PC CHORD 1-2=0/29, 2-3=-3772/0, 3-5=-3789/0, 1-12=0/29, 2-3=-3772/0, 3-5=-3789/0, 1-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-13=-3789/0, 10-11=-2800/54, 11-17=0/1301, 14-16=0/3101 DT CHORD 2-21=-36/3101, 20-21=-36/3101, 7, 20=0/2190, 16-17-0/3101, 14-16=0/3101, 2-21=-36/2101, 2-21=-36/3101, 7, 2-28=-3277/0, 2-28=-3277/0, 2-28=-3277/0, 2-28=-3277/0, 2-28=-3277/0, 2-28=-3277/0, 2-28=-3277/0, 2-28=-3277/0, 2-28=-3277/0, 10-27=-3295/0, 2-28=-3277/0, 2-28=-328-42/33, 5-20=-10/17, 3-27=-0/173, 8-228=-42/38=-464 and ad (5.0 psf) and additional bottom chord dal bad (5.0 psf) and additional bottom chord dal bad (5.0 psf) and additional bottom chord. DT ES Unbalanced roof live loads have been considered for trainage where bead for L/360 deflection. Unbalanced roof live loads have been consider	VEBS	1 Row at midpt	26-28, 27-28							
 EACTIONS (SIZE) 22-0-33, 14=0-3-8 Max Horiz 2-255 (LC 12) Max Grav 2=2250 (LC 48), 14=2250 (LC 48) Max Grav 2=2250 (LC 48), 14=2250 (LC 48) Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord any other members. Celling dead load (5.0 psf) on member(s). 5-6, 10-11, 6-26, 26-28, 3277/0, 27-28=-3277/0, 13-17=-642/338, 6-28=-3295/0, 13-17=-642/338, 6-28=-3295/0, 26-28=-32277/0, 27-28=-3277/0, 13-16=-560/126 DTES Unbalanced roof live loads have been considered for ths design. MaxNiNu6 - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 1/2/2023 BEFORE USE. 	GINIO			Cs=1.00;	Ct=1.10					
 Max Grav 2=2250 (LC 48), 14=2250 (LC 48) PC HOR D 12=00 (29, 2-3=-37720), 15=3789(0, 13-14=-37720), 14-15=0/29 DT CHOR D 2=21=-36/3101, 20-21=-36/3101, 14-15=0/3101, 14-15=0/3101, 14-15=0/3101, 14-15=0/3102, 11-17=0/136				design.						
 DRCES (Ib) - Maximum Compression/Maximum Tension DP CHORD 1-2e/0/29, 2-3=-3772/0, 3-5=-3789/0, 5-6=-2800/54, 6-7=-683/300, 7-8=-1016/370, 8-9=-1016/370, 9-10=-683/300, 7-8=-1016/370, 10-11=-2800/54, 11-13=-3789/0, 13-14=-3772/0, 14-15=0/29 DT CHORD 2-21=-36/3101, 20-21=-36/3101, 14-16=0/3101 17-20=0/2900, 16-17=0/3101, 14-16=0/3101 17-20=0/2900, 16-17=0/3101, 14-16=0/3101 13-14=-6542/338, 6-26=-3295/0, 26-28=-3277/0, 26-28=-3277/0, 26-28=-3277/0, 26-28=-3277/0, 13-16=-560/126 DT ES Unbalanced roof live loads have been considered for the balanced roof live loads have been considered for the design of the design. Unbalanced roof live loads have been considered for the design of the design. WARNING - Vertry design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. 		(,						MILLI	unn.
 DP CHORD 1-2=0/29, 2-3=-3772/0, 3-5=-3789/0, 5-6=-2800/54, 6-7=683/300, 7-8=-1016/370, 8-9=-1016/370, 9-10=-683/300, 10-11=-2800/54, 16-7=683/300, 10-11=-2800/54, 16-7=683/300, 13-14=-3772/0, 14-15=0/29 DT CHORD 2-21=-36/3101, 20-21=-36/3101, 12-021=-36/3101, 20-21=-3295/0, 26=-32/27/0, 27-28=-3277/0, 10-25=-3295/0, 26=-32/27/0, 27-28=-3277/0, 27-28=-3277/0, 27-28=-3277/0, 10-25=-3295/0, 26=-22/27/618, 3-21=-560/126, 10-20-268=10/21, 20-268=20, 20-20-20-21/618, 3-21=-560/126, 10-20-268=20, 20-20-20-21/618, 3-21=-560/126, 10-20-268=20, 20-20-20-20-20-20-20-20-20-20-20-20-20-2	ORCES		pression/Maximum	overhang	s non-concurrent with	other live loa	ads.		TH C	ARO
 8-9=-1016/370, 9-10=-683/300, 10-11=-2800/54, 11-13=-3789/0, 13-14=-3772/0, 14-15=0/29 This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. Ceiling dead load (5.0 psf) on member(s). 5-6, 10-11, 6-26, 26-28, 27-28, 10-27; Wall dead load (5.0psf) on member(s).5-20, 11-17 Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-20 Bottom chord. Bottom chord. Ceiling dead load (5.0 psf) applied only to room. 17-20 Bottom chord. Chord bead load (5.0 psf) applied only to room. 17-20 Bottom chord. Ceiling dead load (5.0 psf) applied only to room. 17-20 Bottom chord. Ceiling dead load (5.0 psf) applied only to room. 17-20 Bottom chord. Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Bottom chord. Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0 psf) applied only to room. 17-20 Ceiling dead load (5.0	OP CHORD	1-2=0/29, 2-3=-3772		7) This trus				S.	OFEES	Sicht -
10-11=-2800/54, 11-13=-3789/0, 13-14=-3772/0, 14-15=0/29 on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. DT CHORD 2-21=-36/3101, 20-21=-36/3101, 17-20=0/2900, 16-17=-0/3101, 14-16=0/3101 9 EBS 3-20=-642/337, 5-20=0/1362, 11-17=0/1362, 13-17=-642/338, 6-26=-3295/0, 26-28=-3277/0, 27-28=-3277/0, 10-27=-3295/0, 7-26=0/173, 9-27=0/173, 8-28=-419/108, 7-28=-217/618, 9-28=-217/618, 3-21=-560/126, 13-16=-560/126 9 OTES Unbalanced roof live loads have been considered for this design. 10 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2023 BEFORE USE. SEAL				chiefa hite				En En	UN.	hill
bottom chord. DTES 12) Abtic room checked for L/360 deflection. Unbalanced roof live loads have been considered for this design. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.		10-11=-2800/54, 11	-13=-3789/0,	on the bo	ttom chord in all areas	s where a rec	tangle		. ×	
bottom chord. DTES 12) Attic room checked for L/360 deflection. Unbalanced roof live loads have been considered for this design. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.	OT CHORD					II fit between	the bottom		SE/	• •
bottom chord. DTES 12) Attic room checked for L/360 deflection. Unbalanced roof live loads have been considered for this design. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.		17-20=0/2900, 16-1	7=0/3101, 14-16=0/	(3101 9) Ceiling d	ead load (5.0 psf) on r				0363	322 : 3
bottom chord. DTES 12) Attic room checked for L/360 deflection. Unbalanced roof live loads have been considered for this design. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.		13-17=-642/338, 6-2	26=-3295/0,	,		ii dead load (o.upst) on		·	
bottom chord. DTES 12) Attic room checked for L/360 deflection. Unbalanced roof live loads have been considered for this design. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.				10) Bottom c	hord live load (40.0 ps			11	NGIN	VEED AN
bottom chord. DTES 12) Abtic room checked for L/360 deflection. Unbalanced roof live loads have been considered for this design. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.		8-28=-419/108, 7-28	3=-217/618,	11) Graphica	I purlin representation	does not de	pict the size	1	CA.	all BE I'm
this design. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.		9-28=-217/618 3-21	=-560/126,			long the top	and/or		"minu	
this design. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.					IVIN.					
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.	OTES	13-16=-560/126		12) Attic roor	n checked for L/360 d	eflection.			Ар	ril 18,2025
	Unbalance	13-16=-560/126 d roof live loads have	been considered fo	12) Attic roor	n checked for L/360 d	eflection.			Ар	ril 18,2025

is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria and DSE-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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