NSE
Neal Smith Engineering, Inc.
139 Pinehurst Avenue - Suite C
Southern Pines, NC 28387
Phone: (910) 695-8825
Fax: (910) 695-8832
www.nsengineering.com
License No. C-1425

July 20, 2020

Eunice Bucur
14089 McDougald Rd.
Sanford, NC 27332

Telephone: 623-297-5810
Email: eunicebucur@gmail.com

Subject: **Structural Inspection for Mobile Home Setup**
14089 McDougald Road
Sanford, North Carolina
NSE Project #2000580

Dear Ms. Bucur:

On July 18, 2020, **NSE** performed a set-up inspection at the above address. This letter certifies that the set-up complies with the North Carolina Regulations for Manufactured/Mobile Homes with the following exceptions:

1. Egress was not installed at the time of inspection.
2. Skirting was not yet installed.

Additional notes: The owner is installing a masonry skirting. If the skirting is placed on a 6" thick footing at least 4" below grade per the attached curtain wall sketch, ventilation is provided per table 3.10.3a and a 6 mil vapor barrier is installed then a belly pan is not required.

Attached is a worksheet of the inspection.

Thank you for the opportunity to do business with you. If you have any questions or comments, or need additional information, please do not hesitate to call.

Sincerely,
NEAL SMITH ENGINEERING, INC.

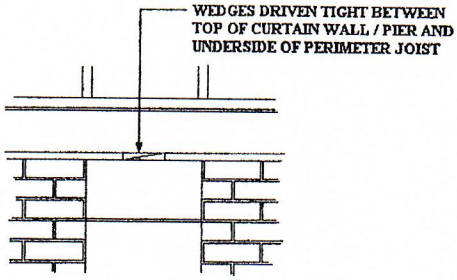
Neal Smith, PE
President

NORTH CAROLINA PROFESSIONAL SEAL 19311 ENGINEER NEAL SMITH
7/20/20

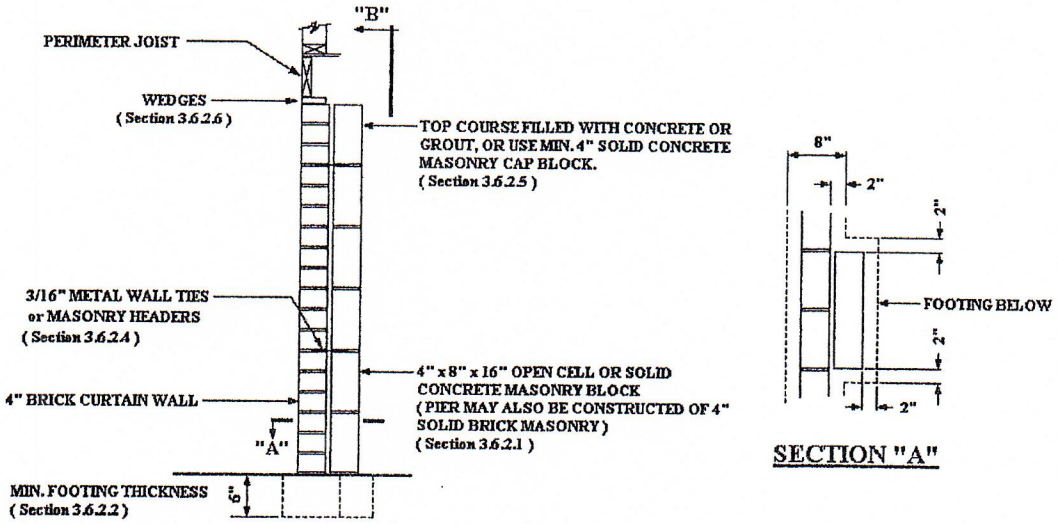
Mobile Home Set-up Inspection Worksheet

Name:	Eunice Bucur
Address:	14089 McDougald Rd. Sanford, North Carolina 27332
Site Inspection: a) Drainage b) Debris c) Overall appearance d) Egress	 o.k. o.k. o.k. not in yet
Home Width	29'-6"
I-Beam spacing	8'-0"
Max. vertical height	60"
Max. strapping spacing	8'-0" o.c.high end 12'-0" o.c. low end
Does strapping comply with table 4.6.5?	Yes
If not, is double strapping provided?	Yes
If, not does 10% rule work?	N/A
Is first strap within 2' from end?	Yes
Is strap 1-1/4" x .035" galv?	Yes
Bearing Capacity Readings a) Reading 1 b) Reading 2 c) Reading 3 d) Reading 4 e) Reading 5 f) Reading 6 g) Reading 7	12 tons min with Digital Pentrometer
Ave of middle 5 converted to psf	3500 psf
Footing pad size and thickness	16" x 16" x 4"
Min Pier Height (12" reqd.)	Yes
Maximum single stack pier height (40")	34"
Maximum double stack pier height (80")	60"
4" cap on double stack piers?	Yes
2" cap on single stack piers?	Yes
Is shimming proper? (1"max)	Yes
What is maximum pier spacing?	8'-0"
Does pier spacing comply with Table 3.7	Yes
If double wide does marriage wall pier meet code	Yes

Notes:



SECTION "B"



SECTION "A"

FIGURE 3.6.4
Prescriptive Pier and Curtain Wall Construction

3.7 PIERS AND PIER SPACING

3.7.1 Pier Design and Spacing -- General

3.7.1.1 New Manufactured Homes
For all NEW manufactured homes the design and spacing of all main I-beam, marriage line, and perimeter support piers shall be in accordance with this Code for homes produced by manufacturers listed in **Appendix A**, and shall utilize the predetermined soil bearing capacity of the site as specified in **Section 3.5.3.** For manufacturers NOT listed in **Appendix A**, pier spacing shall be as indicated in the Manufacturer's Installation Instructions for a given soil bearing capacity and footing size. (See **Section 1.3.1**). ALL FOOTINGS, WHETHER PIER SPACING AND CONFIGURATION ARE DETERMINED BY THIS CODE OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, SHALL COMPLY WITH **SECTION 3.5** OF THIS CODE AS TO MINIMUM SIZE RESTRICTIONS, ORIENTATION, DEPTH TO BOTTOM OF FOOTING, AND FOOTING MATERIALS. Marriage line and perimeter support piers shall be located as indicated either by markings or tags provided by the manufacturer, by guidelines provided in this Code, or as indicated in the Manufacturer's Installation Instructions.

3.7.1.2 Used Manufactured Homes
For USED manufactured homes the design and spacing of all main I-beam, marriage line, and perimeter support piers shall be in accordance with the requirements of **Section 3.7** of this Code, and main I-beam pier spacing shall be in accordance with **Table 3.7**, utilizing the predetermined soil bearing capacity of the site as specified in **Section 3.5.3.** Marriage line and perimeter support piers shall be located on both sides of all openings greater than 4 feet in width. Footing sizes for marriage line and perimeter support piers shall be determined using the procedure given in **Section 3.7.10.**

TABLE 3.10.3A

CRAWLSPACE VENTILATION

Homes WITH a Vapor Barrier

Required Net Free Ventilation Area (square inches) : V=LxWx144/1500

LENGTH	WIDTH OF MANUFACTURED HOME (feet)																					
(feet)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
40	31	38	46	54	61	69	77	84	92	100	108	115	123	131	138	146	154	161	169	177	184
42	32	40	48	56	65	73	81	89	97	105	113	121	129	137	145	153	161	169	177	185	194
44	34	42	51	59	68	76	84	93	101	110	118	127	135	144	152	161	169	177	186	194	203
46	35	44	53	62	71	79	88	97	106	115	124	132	141	150	159	168	177	185	194	203	212
48	37	46	55	65	74	83	92	101	111	120	129	138	147	157	166	175	184	194	203	212	221
50	38	48	58	67	77	86	96	106	115	125	134	144	154	163	173	182	192	202	211	221	230
52	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240
54	41	52	62	73	83	93	104	114	124	135	145	156	166	176	187	197	207	218	228	238	249
56	43	54	65	75	86	97	108	118	129	140	151	161	172	183	194	204	215	226	237	247	258
58	45	56	67	78	89	100	111	122	134	145	156	167	178	189	200	212	223	234	245	256	267
60	46	58	69	81	92	104	115	127	138	150	161	173	184	196	207	219	230	242	253	265	276
62	48	60	71	83	95	107	119	131	143	155	167	179	190	202	214	226	238	250	262	274	286
64	49	61	74	86	98	111	123	135	147	160	172	184	197	209	221	233	246	258	270	283	295
66	51	63	76	89	101	114	127	139	152	165	177	190	203	215	228	241	253	266	279	291	304
68	52	65	78	91	104	118	131	144	157	170	183	196	209	222	235	248	261	274	287	300	313
70	54	67	81	94	108	121	134	148	161	175	188	202	215	228	242	255	269	282	296	309	323
72	55	69	83	97	111	124	138	152	166	180	194	207	221	235	249	263	276	290	304	318	332
74	57	71	85	99	114	128	142	156	170	185	199	213	227	242	256	270	284	298	313	327	341
76	58	73	88	102	117	131	146	161	175	190	204	219	233	248	263	277	292	306	321	336	350