ADDRESS . : 1092 MCARTAN RD SUBDIV:
CONTRACTOR : TITAN DESIGNS MANAGEMENT PHONE : (910) 258-1348
OWNER . . : MCLAMB WILLIAM R & DOROTHY PHONE :
PARCEL . . : 01-0544- - -0014- -01-
APPL NUMBER: 14-50033651 CP MANUFACTURED HOME RA20R/RA20M CRITERIA
DIRECTIONS : T/S: 05/14/2014 03:07 PM DJOHNSON --
210S ABOUT 7-8 MILES TO FLAT BRANCH
FIRE DEPARTMENT TAKE ELLIOTT BRIDGE RD
ABOUT 5 MILES THEN LEFT ONTO MCARTAN RD
1.25 MILE ON RIGHT

STRUCTURE: 000 000 32X76 4 BR
FLOOD ZONE . . . . : FLOOD ZONE X
BEDROOMS . . . . . : 4.00 PROPOSED USE . . . . . : DWMH
SEPTIC - EXISTING? . . . . : NEW WATER SUPPLY . . . . . : COUNTY

PERMIT: CPDW 00 CP MOBILE HOME DOUBLEWIDE

TYP/SQ	REQUESTED / COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
H824 01	7/14/14	BM	ENVIR. OPERATIONS PERMIT TIME: 17:00 VRU #: 002554947
	7/14/14	AP	T/S: 07/15/2014 11:32 AM SSTEWART ----------
			T/S: 07/15/2014 11:33 AM SSTEWART ----------
T501 01	7/14/14	JH	R*MOBILE HOME FOUND./ M. WALL TIME: 17:00 VRU #: 002553733
	7/14/14	DA	T/S: 07/11/2014 12:23 PM VBROWN ----------
			T/S: 07/11/2014 12:24 PM VBROWN ----------
			problems call the precher up the rd at 910 890 4357 or 893 9181 overhills church.
			1)Need engineer letter for fill soil added on right side of home.2)Need to install sewer line & DWV test.3)Need cross over duct installed for heat.4)Ridge cap needs to be installed.5) 6 mil poly lapped 6" per code needs to be nstalled under house.
T501 02	7/23/14 7-23-14	TI APH	R*MOBILE HOME FOUND./ M. WALL TIME: 17:00 VRU #: 002557569
			T/S: 07/22/2014 09:38 AM VBROWN ----------

---------- COMMENTS AND NOTES ----------

John and Lauren Krohn
988 Mcartan Road
Linden, NC 28356

07/18/2014

RE: Daily Field Report for 07/17/2014
1092 Mcartan Road Linden, John and Lauren Krohn
Building & Earth Project No : RD 140311

Ladies and Gentlemen:

On this date, representative(s) of Building & Earth were present to perform construction material testing services at this project site. Our testing and observations for this date include the following:

FO-1 : Field Observations made on this date.
- Structural Fill Evaluation for 1092 McCarten Road. For Information Only

ST-1 : In place field density testing was performed for Finished Subgrade Soils -Building. The field density testing was performed in general accordance with ASTMD1556, using the results of field one-point as compared to the laboratory proctors. One(1) in-place field density test was performed on this date. The testing results indicate that in-place compaction and moisture content at the location and depth tested meet or exceed the specified requirements outlined in the project plans and specifications. For additional details of our testing, please refer to the attached Field Density Test Report.

Closing

The testing and observations identified above have been reviewed by our project manager. If you have questions regarding this information, please do not hesitate to contact us.

Respectfully Submitted,
Building & Earth Sciences, LLP

Enclosures : FO-1, ST-1

NORTH CAROLINA
PE
SEAL
024412
ENGINEER
STUART A. MILLER

Reviewed By:

610 Spring Branch Road
Dunn, NC 28334
Phone 910-292-2085 Fax 910-292-2192
www.BuildingandEarth.com

Field Observations Report

Project Name:	**1092 Mcartan Road Linden, John and Lauren Krohn**	Project Number:	**RD 140311**
Client Name:	**John and Lauren Krohn**	Placement#:	**FO-1**
Contractor:	**John and Lauren Krohn**	Technician:	**Matt Walker**
Monitoring:	**DCP**		

1 : Structural Fill Evaluation for 1092 McCarten Road.

Our representative arrived onsite to evaluate the newly placed fill that supports the new modular home residence for Mike & Lauren Krohr at 1092 McCartan RD. We understand the structure has been designed to be supported on a a series of isolated pier footings. Upon arrival, the contractor had placed 12 to 16 inches of fill on the right half of the pad to achieve finished subgrade elevation, and the house was in place. As such, our tests were performed near the walls of the house to represent the soils that have been placed to grade.

Our evaluation as documented in this report includes:
1) A visual description of the area
2) Hand rod probing of the excavations
3) Performing Dynamic Cone Penetration (DCP) tests at representative locations

Visual Description:
The area generally slopes from left to right. Maximum relief across the lot is approximately 12 inches. The building pad has been leveled with fill being placed on the right half of the pad. Surface water runoff appears to drain away from the proposed structure. The left (west) side of the pad had been cut to grade (approximately 1 foot).

Hand Rod Probing:
Our representative performed hand rod probing of the bearing surface. Hand rod probing of the bearing material generally showed an average penetration of approximately 2-3 inches, indicating firm resistance and our representative did not observe areas of soft/loose material. Our representative also did not observe standing water or evidence of standing water on the bearing surface.

DCPs:
Our representative performed Dynamic Cone Penetration (DCP) testing in general accordance with ASTM STP-399 at two representative locations to a depth 36 inches below the base of the surface.

The following information provides the results of our hand auger borings and DCP testing:

---------- Depth----"N"-------USCS---- Soil Color----------Notes:

Front Right Corner
DCP 1: ------ BOF ----8.5 -------- Orange sandy clay
---------- -1' ---- 15+ ------ Orange sandy clay
---------- -2' ---- 12.5 -------- Orange/Brown sandy clay
---------- -3' ---- 12 ---------- Brown sandy clay

Right Rear Corner
DCP 2: ------ BOF ---- 9 -------- Orange sandy clay
---------- -1' ---- 9.5 ------ Orange sandy clay
---------- -2' ---- 7.5 -------- Orange sandy clay
---------- -3' ---- 7 ---------Orange/Brown sandy clay

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Field Observations Report

Project Name:	**1092 Mcartan Road Linden, John and Lauren Krohn**	Project Number:	**RD 140311**
Client Name:	**John and Lauren Krohn**	Placement#:	**FO-1**
Contractor:	**John and Lauren Krohn**	Technician:	**Matt Walker**
Monitoring:	**DCP**		

Based upon this information, at the locations and depths tested the recently placed structural fill soils are firm and suitable to support the new pier foundations. The new fill soils and underlying soils were able to provide a bearing capacity of 2,000 psf at the locations and depths tested.

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Reviewed By

BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

ST-1

Test Date: 07/17/2014
Field Technician: Matt Walker
Tests requested by: N/R
Results provided to: N/R

Report of Field Density Testing

Project Name:	1092 Mcartan Road Linden, John and Lauren Krohn	Ambient Temperature:	50-70
Project Number:	RD 140311	Weather:	Clear
Project Location:	Linden, NC	Wind Conditions:	Calm
Client:	John and Lauren Krohn	Results Provided To:	N/R
Contractor:	John and Lauren Krohn	Superintendant:	N/R

Notes:
1 Test location by technician
2 Elevation by Technician
3 Fill/backfill placed prior to technician arriving

Design & Specification Data

Area ID	Area Description	Depth (ft)	Test Method	% Compaction	Moisture Range	
					Min	Max
FSG-Bldg	Finished Subgrade Soils -Building	0.0 - 2.0	ASTM D-698	95 %	- 10.0	+ 10.0

Laboratory Proctors

Proctor ID	Description of Material	USCS/AASHTO	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
1-point			112.0	9.5%

Density Test Data

Test #	IDs		Test Type	Location	Elev. (ft)	Dry Density(pcf)	% Moisture	% Compaction	Result
	Area	Proctor							
1	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : NEC of Lot 1092 65' W. : 1' S.	FSG	108.9	11.1	97%	PASS

Equipment Used:
Last Calibration:
Standard Counts:
Density:
Moisture:

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