



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

PERMIT CARD – PLEASE POST AT JOB SITE

THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

Per FBC 105.3.3: An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies." The issuance of this permit does not grant permission to violate any applicable City, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Roofing, Electrical, Gas, Plumbing and Mechanical services. This permit becomes VOID if the work authorized is not commenced within 6 months, or is suspended or abandoned for a period of 6 months after commencement. WORK SHALL BE CONSIDERED SUSPENDED IF AN APPROVED INSPECTION HAS NOT BEEN MADE WITHIN A 6 MONTH PERIOD. PERMISSION IS GRANTED TO DO THE FOLLOWING WORK ACCORDING TO THE CONDITIONS HEREON AND THE APPROVED PLANS AND SPECIFICATIONS, SUBJECT TO COMPLIANCE WITH THE ORDINANCES OF THE CITY OF BELLE ISLE, FLORIDA.

Scope of Work: MECHANICAL: c/o 2.5ton HVAC with no ductwork

Comments: None

Project Information

Address: 3913 Quando Drive, Belle Isle, FL 32812
Parcel ID: 20-23-30-1646-00-780
Property Owner: Greenway, Mary
Phone Number: 407-855-2150

Company Name: Harrell Home Services, Inc
Contractor Name: Harrell, Justin
License Number: CAC817177
Address: 7033 Stapoint Court, Ste G, Winter Park, FL 32792
Phone Number: 407-392-1232

Permit Number: 2014-07-002

Date of Application: 06/25/2014

Date Permit Issued: 06/26/2014

WARNING TO OWNER: "YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT." ON THE JOB INSPECTION(S) MUST BE MADE BEFORE PROCEEDING WITH SUBSEQUENT WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND BE PROTECTED FROM THE WEATHER WHILE BEING VISIBLE FROM THE STREET UNTIL THE FINAL INSPECTIONS HAVE BEEN APPROVED.

BUILDING FEATURES

IMPACT FEES

School \$

ZONING FEES

Zoning Fee \$

UNIVERSAL ENG - BUILDING FEES

Demo \$
Building \$
Fence \$
Driveway \$
Shed \$
Window(s) \$
Door(s) \$
PrePower \$
Electrical \$
Temp Pole \$
Plumbing \$111.00
Mechanical \$
Gas \$
Roofing \$
Boat Dock \$
Screen Encl \$
Swimming Pool \$

SURCHARGE FEES

Surcharge Fee \$2.00
Surcharge Fee \$2.00

TOTAL FEES \$115.00

Date Paid 6-26-14

CC or Check # mc 9653

Amount Paid 115⁰⁰

The person accepting this permit shall conform to the terms of the application on file and construction shall conform to the requirements of the Florida Building Code (FS 553).

BUILDING INSPECTOR USE ONLY

IF APPLICABLE:

Have Zoning Approval Conditions Been Met? YES NO Have Stormwater Approval Conditions

Been Met? YES NO Silt fencing in place? YES NO Turbidity Barrier in place? YES NO

BUILDING

1st _____ (Footing/Foundation)
Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? ____
2nd _____ (Slab)
3rd _____ (Lintel)(Wall Reinforcing on Masonry Building)
4th _____ (Exterior Framing)(Roof/Wall Sheathing)
5th _____ (Framing) (To be made after Plumbing/ Mechanical/
Electrical Rough-Ins & Windows/Doors Installed)
6th _____ (Insulation to be Made After Roof Installed)
7th _____ (Drywall)
8th _____ (Sidewalk/Driveway)
9th _____ (Other)
10th _____ (Final – After MEP and Other Applicable Finals)

ROOFING

1ST ROOFING Deck Nailing/Dry-in/Flashing _____
2nd ROOFING Covering In-Progress _____
3rd ROOFING Covering Final _____

PLUMBING (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...)

1ST _____ (Underground) 2nd _____ (Sewer)
 3rd _____ (Rough-In/Tub Set) 4th _____ (Final)

CHECK APPROPRIATE BOX

GAS ___Natural ___LP MECHANICAL ELECTRICAL LOW VOLTAGE

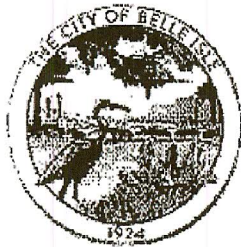
1st _____ (Rough-In) 2nd _____ (Final)

Inspection requests are to be emailed to BDIscheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. **Next-Day Inspection requests must be made by 1pm.** Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed.

For a copy of your permit, or to check inspection results, please visit <https://universalengineering.sharefile.com/f/fo94edc4-832d-44bd-9809-ecf32f9e2e63>

login ID = cobi@universalengineering.com

password = universal13



City of Belle Isle

Universal Engineering Sciences 3532 Maggle Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

received
6-25-14

APPLICATION FOR MECHANICAL PERMIT

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

DATE OF APPLICATION: JUNE 24 2014

PERMIT NUMBER 2014-07-002

PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 3913 QUANDO DRIVE, Belle Isle FL 32809 32812
Property Owner MARY GREENWAY Phone 407-855-2150
Property Owner's Mailing Address 3913 QUANDO DR City BELLE ISLE
State FL Zip Code 32812 Parcel Id Number: 202330164600780

To obtain this information, please visit: <http://www.ocpaf1.org/Searches/ParcelSearch.aspx>

Class of Building: Old New Type of Building: Residential Commercial Other
Type of Work: New Alteration Addition Repair

- REQUIRED: Tie Down Engineering
- REQUIRED: if adding A/C to new space, provide Energy Calculations & Equipment Sizing Calculations
- REQUIRED: if replacing unit with no duct work, Duct Certification as per FB 101.4.7.1, must be posted on unit

Please indicate the nature of work by completing the information below:

Air Conditioning: # of Units 1 Tons Per Unit 2.5 Total Tons 2.5
Type of System: Water to Air Chiller Split System Package Heat Pump Estimated Cost \$ 8586

Heating: # of Units KWS Per Unit: 8 Kw Total KWS 8 Kw BTU's _____
Oil Electric Boiler Gas Estimated Cost \$ _____

(A) Estimated Cost Fee \$ _____

Fees for items below are based on valuation of all units, equipment, materials and labor supplied by owner or contractor.

Ventilation:
(Number of) Grease _____ Heat _____ Hoods, Air Intakes _____ Exhaust Fans _____ Dryer Vents _____ Estimated Cost \$ _____

Refrigeration: Number of units _____ Estimated Cost \$ _____

Piping: Air _____ Vacuum _____ Steam _____ Chill Water _____ Estimated Cost \$ _____

Others: (Specify) _____ Estimated Cost \$ _____

Was the space previously Air Conditioned? Yes No (B) Estimated Cost Fee \$ 8586

I hereby certify that the above is true and correct to the best of my knowledge and make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances.

LICENSE HOLDER SIGNATURE Justin Harrell LICENSE # CAC1817177

LICENSE HOLDER NAME JUSTIN HARRELL COMPANY NAME HARRELL HOME SERVICES

Street Address 7033 STAPOINT CT SUITE G

City WINTERPARK State FL Zip Code 32792 Phone Number 407-392-1232PERMITS@

Email Address PERMITS@HARRELLHOMESERVICES.COM

Building Official: Angel Perez Date 6-26-2014
Verified Contractor's Licenses & Insurance are on file ecg Date 6-25-14

Permit Fee	\$	<u>74.00</u>
Review Fee	\$	<u>37.00</u>
3% Florida Surcharge	\$	<u>4.00</u>
Total Permit Fee	\$	<u>115.00</u>

NOTE: The Building Permit Number is required if the Mechanical Installation is associated with any construction or alteration where a Building Permit has been issued. Building Permit Number _____

PROJECT NUMBER 0115.1400326.0000

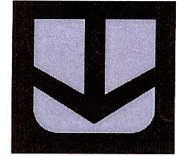
TASK NUMBER 02

CITY OF BELLE ISLE
Permit Application Review Sheet

Permit Number	2014-07-002
Property Owner	Greenway
Address	3913 Amanda Dr
Nature of Improvement	Mechanical
Received Application	6-25-14
Sent for Stormwater Review	
Stormwater Approved	
Sent for Zoning Review	
Zoning Approved	
Applied for Variance	
Variance Approved	
Sent to BO for Review	6-25-14 6038714
Building Official Approved	6-26-2014
Comments	
1.	6-26-14 cq emailed contr it's ready
2.	
3.	
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12.	



COBI Permit Fee Calculation Form



Reviewer Signature: AP.

Date: 6/26/2014

Permit Type: Mechanical Job Cost: \$ 8,586-

Permit Fee: \$ 74.00

Plans Review Fee: \$ 37.00 (50% of permit fee – excluding ReRoofs)

1.5% State Fee: \$ 2.00

1.5% State Fee: \$ 2.00

TOTAL BUILDING FEE: \$ 115.00 (does not include Zoning fees or Deposits)

Note: Total gets doubled for SWO/AFT permits

Condenser + Air handler
 $\$37 \times 2 = \74
 $\$74 \times 50\% = \37
 $\$111$
 $\$111 \times 3\% (4.00) = \$4 + \$111 = \115.00



Certificate of Product Ratings

AHRI Certified Reference Number: 5055925

Date: 6/25/2014

Product: Split System: Air-Cooled Condensing Unit, Coil with Blower

Outdoor Unit Model Number: MSA4BD030KB

Indoor Unit Model Number: B6EMMX30K-A

Manufacturer: MAYTAG

Trade/Brand name: MAYTAG

Series name: MAYTAG MSA4BD SERIES

Manufacturer responsible for the rating of this system combination is MAYTAG

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	28600
EER Rating (Cooling):	12.20
SEER Rating (Cooling):	14.00
IEER Rating (Cooling):	



* Ratings followed by an asterisk (*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

DISCLAIMER

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CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom right.



1" STEEL CLIP TIE-DOWN SCHEDULE: ROOF-TOP MOUNTED INSTALLATIONS:

WINDING ELEMENTS AREA PER UNIT LAMINATED FLOOR	UNIT WEIGHT	UNIT WEIGHT	TYPICAL ALLOWABLE UPLIFT: 90 LBS/CLIP		TYPICAL ALLOWABLE UPLIFT: 90 LBS/CLIP	
			TO CONCRETE	TO STEEL	TO CONCRETE	TO STEEL
4 FT	48 LB	34 LB	100 PSF	100 PSF	100 PSF	100 PSF
6 FT	72 LB	51 LB	100 PSF	100 PSF	100 PSF	100 PSF
8 FT	96 LB	68 LB	100 PSF	100 PSF	100 PSF	100 PSF
10 FT	120 LB	85 LB	100 PSF	100 PSF	100 PSF	100 PSF
12 FT	144 LB	102 LB	100 PSF	100 PSF	100 PSF	100 PSF
14 FT	168 LB	119 LB	100 PSF	100 PSF	100 PSF	100 PSF
16 FT	192 LB	136 LB	100 PSF	100 PSF	100 PSF	100 PSF
18 FT	216 LB	153 LB	100 PSF	100 PSF	100 PSF	100 PSF
20 FT	240 LB	170 LB	100 PSF	100 PSF	100 PSF	100 PSF
22 FT	264 LB	187 LB	100 PSF	100 PSF	100 PSF	100 PSF
24 FT	288 LB	204 LB	100 PSF	100 PSF	100 PSF	100 PSF
26 FT	312 LB	221 LB	100 PSF	100 PSF	100 PSF	100 PSF
28 FT	336 LB	238 LB	100 PSF	100 PSF	100 PSF	100 PSF
30 FT	360 LB	255 LB	100 PSF	100 PSF	100 PSF	100 PSF
32 FT	384 LB	272 LB	100 PSF	100 PSF	100 PSF	100 PSF
34 FT	408 LB	289 LB	100 PSF	100 PSF	100 PSF	100 PSF
36 FT	432 LB	306 LB	100 PSF	100 PSF	100 PSF	100 PSF

ADDITIONAL ALLOWABLE UPLIFT: 90 LBS/CLIP

THIS TABLE PROVIDES UPLIFT CAPACITY FOR 1" STEEL CLIP TIE-DOWN SCHEDULE: ROOF-TOP MOUNTED INSTALLATIONS. UPLIFT CAPACITY IS BASED ON THE FOLLOWING ASSUMPTIONS:

- 1. THE CLIP IS WELDED TO THE STEEL DECK.
- 2. THE CLIP IS WELDED TO THE CONCRETE.
- 3. THE CLIP IS WELDED TO THE STEEL DECK AND CONCRETE.
- 4. THE CLIP IS WELDED TO THE STEEL DECK AND CONCRETE AND THE STEEL DECK IS WELDED TO THE CONCRETE.
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2" STEEL CLIP TIE-DOWN SCHEDULE: ROOF-TOP MOUNTED INSTALLATIONS:

WINDING ELEMENTS AREA PER UNIT LAMINATED FLOOR	UNIT WEIGHT	UNIT WEIGHT	TYPICAL ALLOWABLE UPLIFT: 90 LBS/CLIP		TYPICAL ALLOWABLE UPLIFT: 90 LBS/CLIP	
			TO CONCRETE	TO STEEL	TO CONCRETE	TO STEEL
4 FT	96 LB	68 LB	100 PSF	100 PSF	100 PSF	100 PSF
6 FT	144 LB	102 LB	100 PSF	100 PSF	100 PSF	100 PSF
8 FT	192 LB	136 LB	100 PSF	100 PSF	100 PSF	100 PSF
10 FT	240 LB	170 LB	100 PSF	100 PSF	100 PSF	100 PSF
12 FT	288 LB	204 LB	100 PSF	100 PSF	100 PSF	100 PSF
14 FT	336 LB	238 LB	100 PSF	100 PSF	100 PSF	100 PSF
16 FT	384 LB	272 LB	100 PSF	100 PSF	100 PSF	100 PSF
18 FT	432 LB	306 LB	100 PSF	100 PSF	100 PSF	100 PSF
20 FT	480 LB	340 LB	100 PSF	100 PSF	100 PSF	100 PSF
22 FT	528 LB	374 LB	100 PSF	100 PSF	100 PSF	100 PSF
24 FT	576 LB	408 LB	100 PSF	100 PSF	100 PSF	100 PSF
26 FT	624 LB	442 LB	100 PSF	100 PSF	100 PSF	100 PSF
28 FT	672 LB	476 LB	100 PSF	100 PSF	100 PSF	100 PSF
30 FT	720 LB	510 LB	100 PSF	100 PSF	100 PSF	100 PSF
32 FT	768 LB	544 LB	100 PSF	100 PSF	100 PSF	100 PSF
34 FT	816 LB	578 LB	100 PSF	100 PSF	100 PSF	100 PSF
36 FT	864 LB	612 LB	100 PSF	100 PSF	100 PSF	100 PSF

ADDITIONAL ALLOWABLE UPLIFT: 90 LBS/CLIP

THIS TABLE PROVIDES UPLIFT CAPACITY FOR 2" STEEL CLIP TIE-DOWN SCHEDULE: ROOF-TOP MOUNTED INSTALLATIONS. UPLIFT CAPACITY IS BASED ON THE FOLLOWING ASSUMPTIONS:

- 1. THE CLIP IS WELDED TO THE STEEL DECK.
- 2. THE CLIP IS WELDED TO THE CONCRETE.
- 3. THE CLIP IS WELDED TO THE STEEL DECK AND CONCRETE.
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ANCHOR SCHEDULE:

ANCHOR	ANCHOR
1. 1/2" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT	1. 1/2" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT
2. 3/4" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT	2. 3/4" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT
3. 1" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT	3. 1" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT
4. 1 1/4" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT	4. 1 1/4" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT
5. 1 1/2" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT	5. 1 1/2" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT
6. 1 3/4" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT	6. 1 3/4" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT
7. 2" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT	7. 2" DIA. STEEL ANCHOR BOLT WITH 3" EMBEDMENT

3

13-BMP-0001

REV. 10/10

DATE

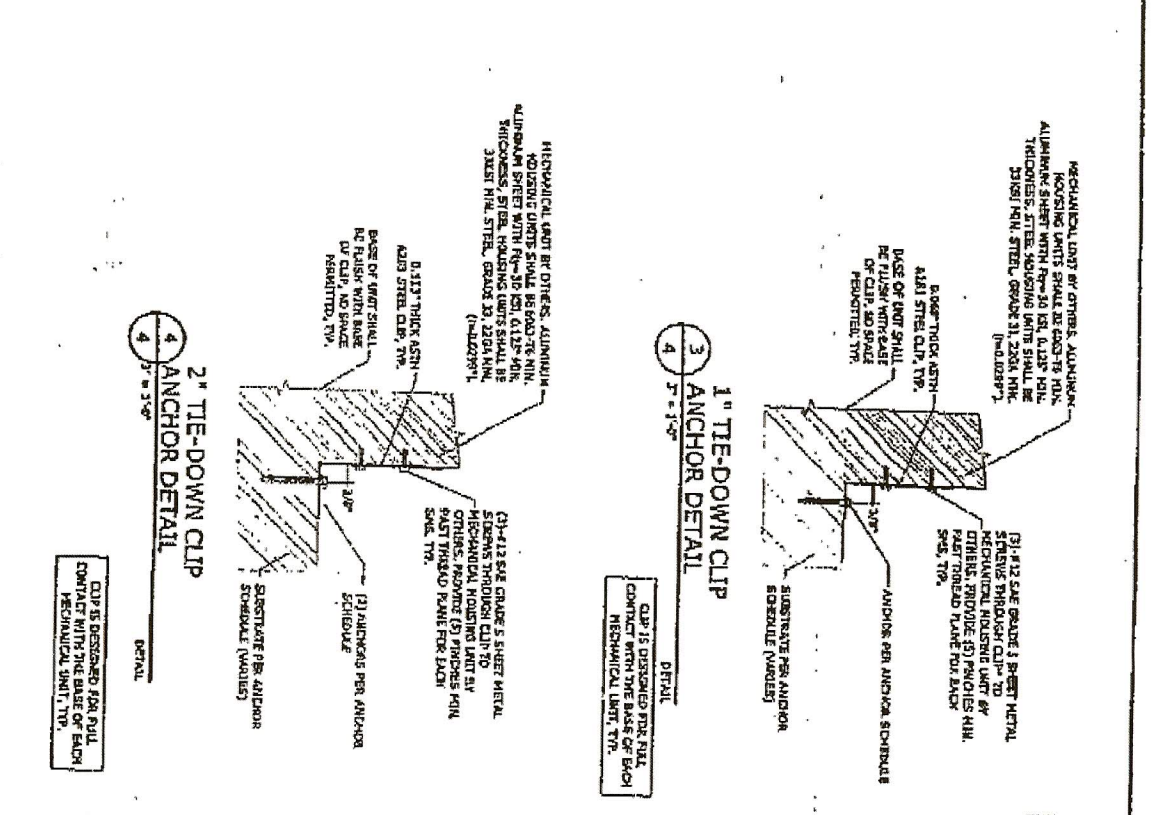
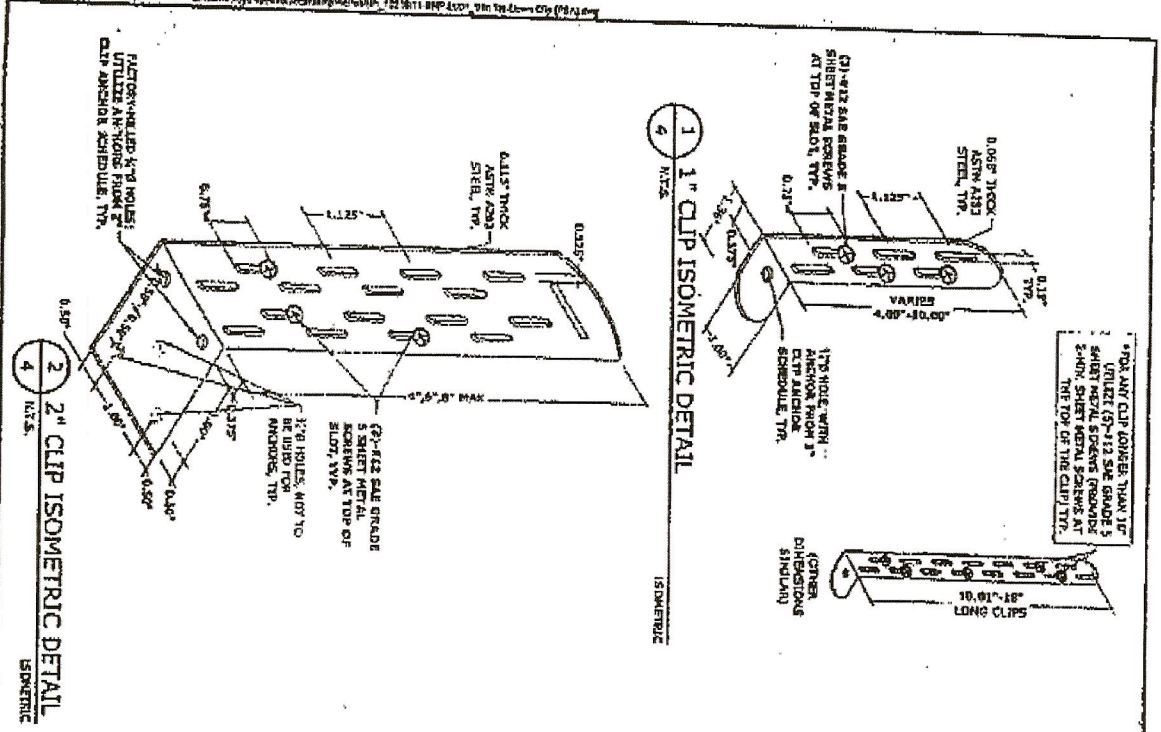
DESCRIPTION

BMP INTERNATIONAL, INC.

4710 28TH STREET NORTH
ST. PETERSBURG, FL 33771
PH: (727) 577-1513

MECHANICAL UNIT STEEL TIE-DOWN CLIPS
FLORIDA STATEWIDE APPROVAL

ENGINEERING
No. 40849
150 SW 12TH AVENUE
DEERFIELD BEACH, FL 33442
PH: (561) 254-0400 FAX: (561) 254-0401
WWW.BMGEXP.COM



REVISION	DATE	BY	CHKD

1.1-BMP-01001
 SCALE: 1/4" = 1'-0"
 DATE: 06/25/14
 DRAWN BY: [Signature]

BMP INTERNATIONAL, INC.
 4710 28TH STREET NORTH
 ST. PETERSBURG, FL 33771
 PH: (727) 577-1612
 MECHANICAL UNIT STEEL TIE-DOWN CLIPS
 FLORIDA STATEWIDE APPROVAL

ENGINEER EXPRESS
 160 SW 12th AVENUE
 DEERFIELD BEACH, FL 33442
 TEL: (561) 334-0000 FAX: (561) 334-0001
 WWW.ENGCORP.COM
 A FRANK, EDWARDS, P.C., INC. FIRM

Professional Engineer Seal: State of Florida, No. 12458, Exp. 12/31/15

