

RHEEM SALES COMPANY, INC.

WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETY AND STEEL TIE-DOWN CLIPS: ROOF MOUNTED APPLICATIONS

APPROVED DESIGN CRITERIA:

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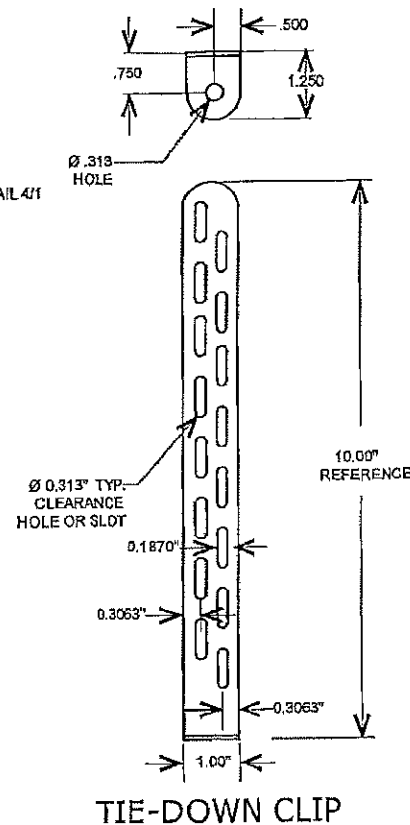
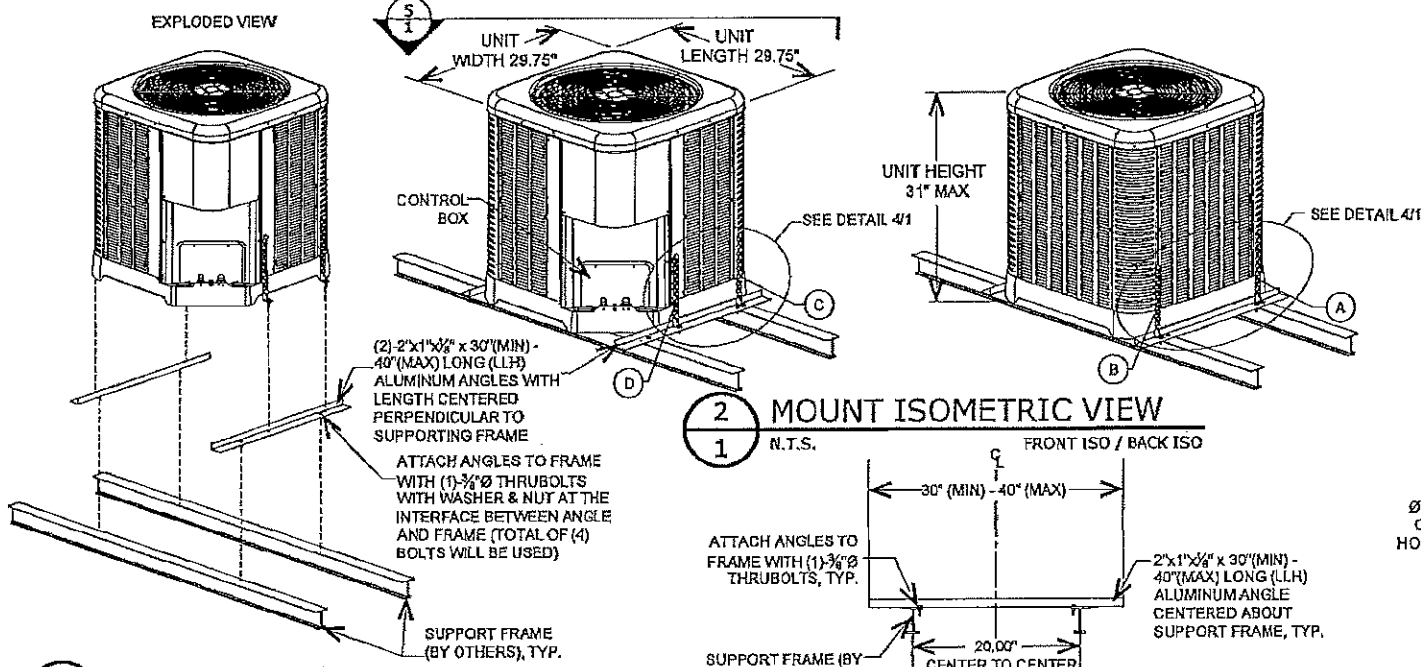
200 PSF LATERAL WIND LOAD
100 PSF UPLIFT WIND LOAD (CONCURRENT)

DESIGN NOTES:

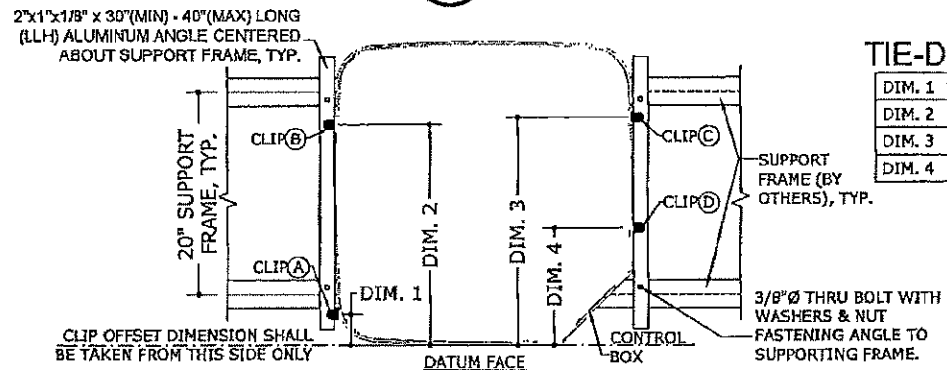
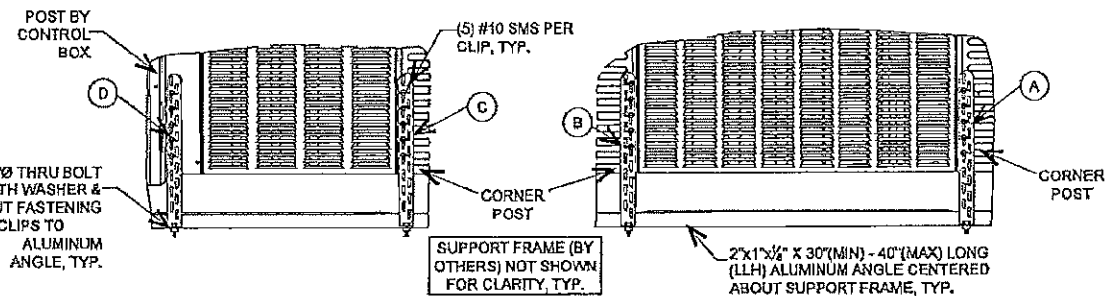
SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-10 AND CHAPTER 16 OF THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN. DESIGN PRESSURE REQUIREMENTS SHALL BE DETERMINED BY A REGISTERED DESIGN PROFESSIONAL ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.

GENERAL NOTES:

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FIFTH EDITION (2014). THIS SYSTEM MAY BE USED WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. THIS DESIGN IS NOT INTENDED TO CERTIFY IMPACT RESISTANCE OF THE MECHANICAL UNIT CABINETY.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
- DESIGN & CERTIFICATION OF THE UNIT CABINETY IS APPROVED THROUGH TEST REPORT #0323.01-15 BY AMERICAN TEST LAB OF SOUTH FLORIDA.
- ALL DIMENSIONS AND THE MINIMUM WEIGHT (120 LB MINIMUM) OF MECHANICAL UNIT SHALL CONFORM TO LIMITATIONS STATED HEREIN. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
- ALL SHEET METAL SCREWS USED TO FASTEN CLIPS TO MECHANICAL UNITS SHALL BE #10 (14 MIN THREADS PER INCH) GRADE 5 STEEL OR EQUIVALENT ONLY. BOLTS USED TO FASTEN ALUMINUM ANGLES TO SUPPORTING FRAME (BY OTHERS) SHALL BE ASTM F593 410 STAINLESS STEEL OR EQUIVALENT AND SHALL UTILIZE SAE GRADE WASHERS & NUTS. PROVIDE (5) PITCHES MINIMUM PAST THE THREAD PLANE FOR SHEET METAL SCREWS. ALL FASTENERS SHALL HAVE APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTROLYSIS. ALL FASTENER CONNECTIONS TO ALUMINUM SHALL PROVIDE 2xDIAMETER EDGE DISTANCE.
- ALUMINUM ANGLES SPECIFIED HEREIN SHALL BE 6061-T6 ALUMINUM ONLY.
- CONNECTIONS TO THE SUPPORTING FRAME (BY OTHERS) CONSIDER A FRAME MEMBER THAT IS 6061-T6 MIN ALUMINUM WITH A MINIMUM 0.094" THICK FLANGE AT ATTACHMENT POINT. PERFORMANCE OF THE RAIL AS A STRUCTURAL MEMBER TO SUPPORT THE UNIT ASSEMBLY SHALL BE PER SEPARATE CERTIFICATION.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- THE ADEQUACY OF ANY EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS SHALL BE VERIFIED BY THE ONSITE DESIGN PROFESSIONAL AND IS NOT INCLUDED IN THIS CERTIFICATION. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- WATER-TIGHTNESS OF EXISTING HOST SUBSTRATE SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR. CONTRACTOR SHALL ENSURE THAT ANY REMOVED OR ALTERED WATERPROOFING MEMBRANE IS RESTORED AFTER FABRICATION AND INSTALLATION OF STRUCTURE PROPOSED HEREIN. THIS ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY WATERPROOFING OR LEAKAGE ISSUES WHICH MAY OCCUR AS WATER-TIGHTNESS SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR.



THESE ISOMETRICS ARE INTENDED FOR DIAGRAMMATICAL PURPOSES ONLY; ALTERNATE RHEEM UNITS LISTED HEREIN MAY VARY IN APPEARANCE



TIE-DOWN CLIP OFFSETS:

DIM. 1	4.50" MAX OFFSET FROM DATUM FACE
DIM. 2	24.50" MIN OFFSET FROM DATUM FACE
DIM. 3	25.25" MIN OFFSET FROM DATUM FACE
DIM. 4	13" MAX OFFSET FROM DATUM FACE

APPLICABLE MODELS:

RA1318, RA1324, RA1330, RA1336, RA1342, RA1418, RA1424, RA1430, RA1618, RP1418, RP1424, RP1430, RP1518, RD1418, RP1524, RD1424
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PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 16-0712.07
Expiration Date 02/25/2021
By *[Signature]*
Miami-Date Product Control

Approved as complying with the Florida Building Code
Date 02/25/2016
NOA# 15-0405-08
Miami-Date Product Control
By *[Signature]*

NOTE: UNIT SHALL BE CENTERED ABOUT THE 20" RAIL TO RAIL SUPPORTING FRAME (BY OTHERS)

FRANK L. BENNARDO, P.E. #PE46549
12/30/2015
NO. 46549
STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER
LICENSE NO. 46549

ENGINEERING EXPRESS
160 SW 12th AVENUE, #106
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0443
WWW.ENGINEXP.COM
CERT OF AUTH #885
A. FRANK L. BENNARDO, P.E., INC. INNOVATION

RHEEM SALES COMPANY, INC.
5600 OLD GREENWOOD RD
FORT SMITH, AZ 72808 | PH: (770) 351-3000
ROOF MOUNTED MECH. CABINET AND TIE-DOWNS

DRWN	CHKD	DATE
JAC	TSH	08/14/15
REMARKS	INT ISSUE	

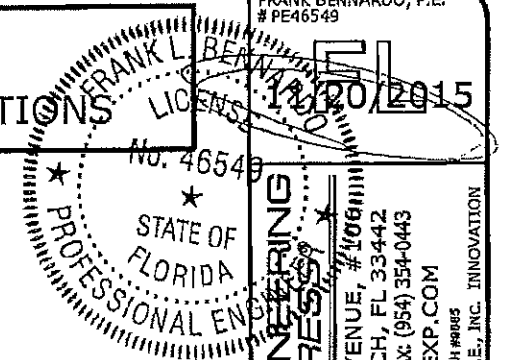
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RHEEM SALES COMPANY, INC.

WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETS AND STEEL TIE-DOWN CLIPS: ROOF MOUNTED APPLICATIONS

FRANK BENNARDO, P.E.
PE46549



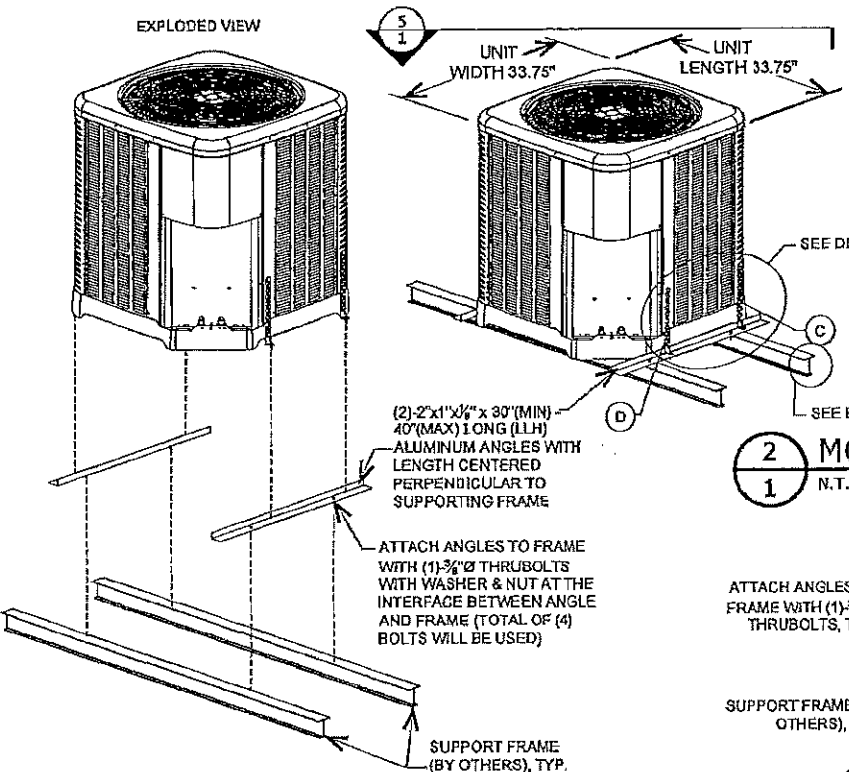
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DRWN	CHKD	DATE
JAC	TSS	05/14/15

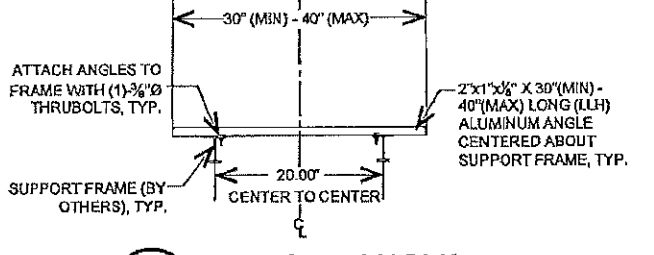
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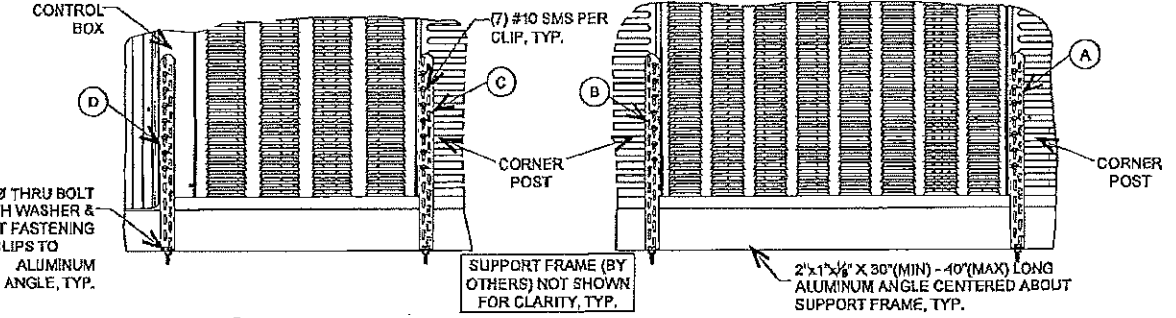
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1 N.T.S.
FRONT ISOMETRIC

2 MOUNT ISOMETRIC VIEW
1 N.T.S.
FRONT ISO / BACK ISO

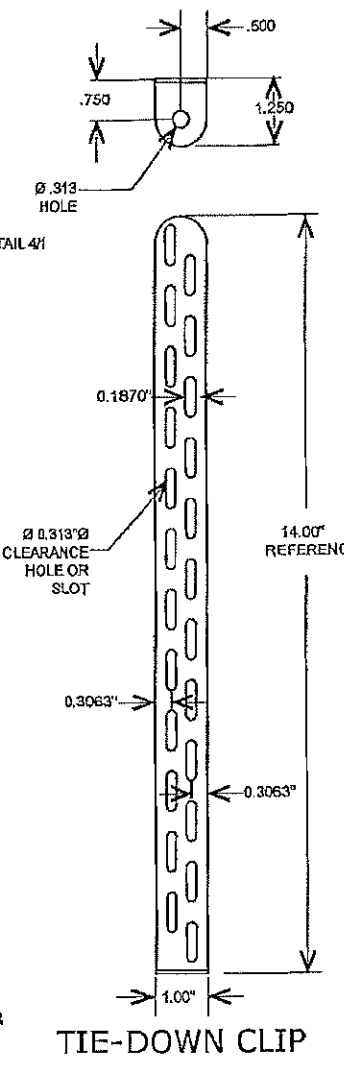


3 SUPPORT ANGLE
1 N.T.S.
ELEVATION

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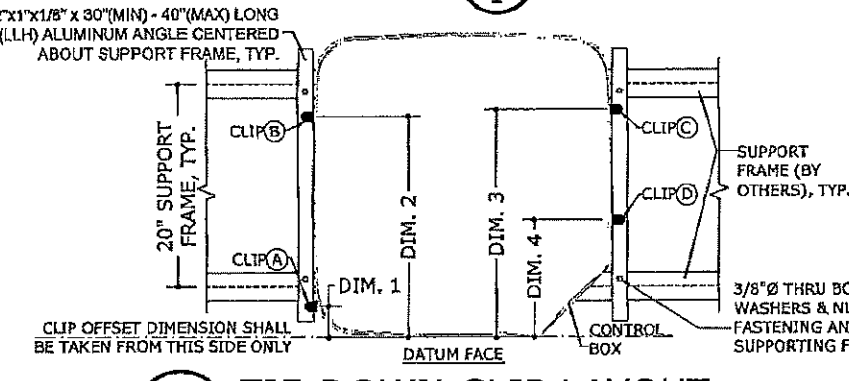


4 TIE-DOWN CLIP ATTACHMENTS
1 N.T.S.
ELEVATIONS



TIE-DOWN CLIP

MIAMI TECH CLIP: 12GA (0.09") ASTM A653 F490 K81 STEEL (CUTD14) MIAMI TECH KIT # RRCUTD34K



5 TIE-DOWN CLIP LAYOUT
1 N.T.S.
PLAN

TIE-DOWN CLIP OFFSETS:

DIM. 1	4.50" MAX OFFSET FROM DATUM FACE
DIM. 2	28.00" MIN OFFSET FROM DATUM FACE
DIM. 3	29.00" MIN OFFSET FROM DATUM FACE
DIM. 4	13.00" MAX OFFSET FROM DATUM FACE

APPLICABLE MODELS:
RA1348, RA1436, RA1442B, RA1624, RA1636B, RA1642B, RP1336, RP1348, RP1436, RP1442, RP1448, RP1530, RD1430, RP1536, RD1436, RP1542, RD1442, RA/UA1724, RA/UA2036, RA/UA2024, RP/UP1724, RP/UP1736, RA/UA1736, RP/UP2024

NOTE: UNIT SHALL BE CENTERED ABOUT THE 20" RAIL TO RAIL SUPPORTING FRAME (BY OTHERS)

PRODUCT REVISED
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NOA-No. **16-0712.07**
Expiration Date **02/25/2021**
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Miami-Dade Product Control

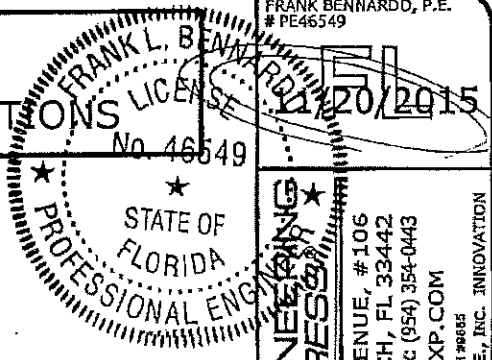
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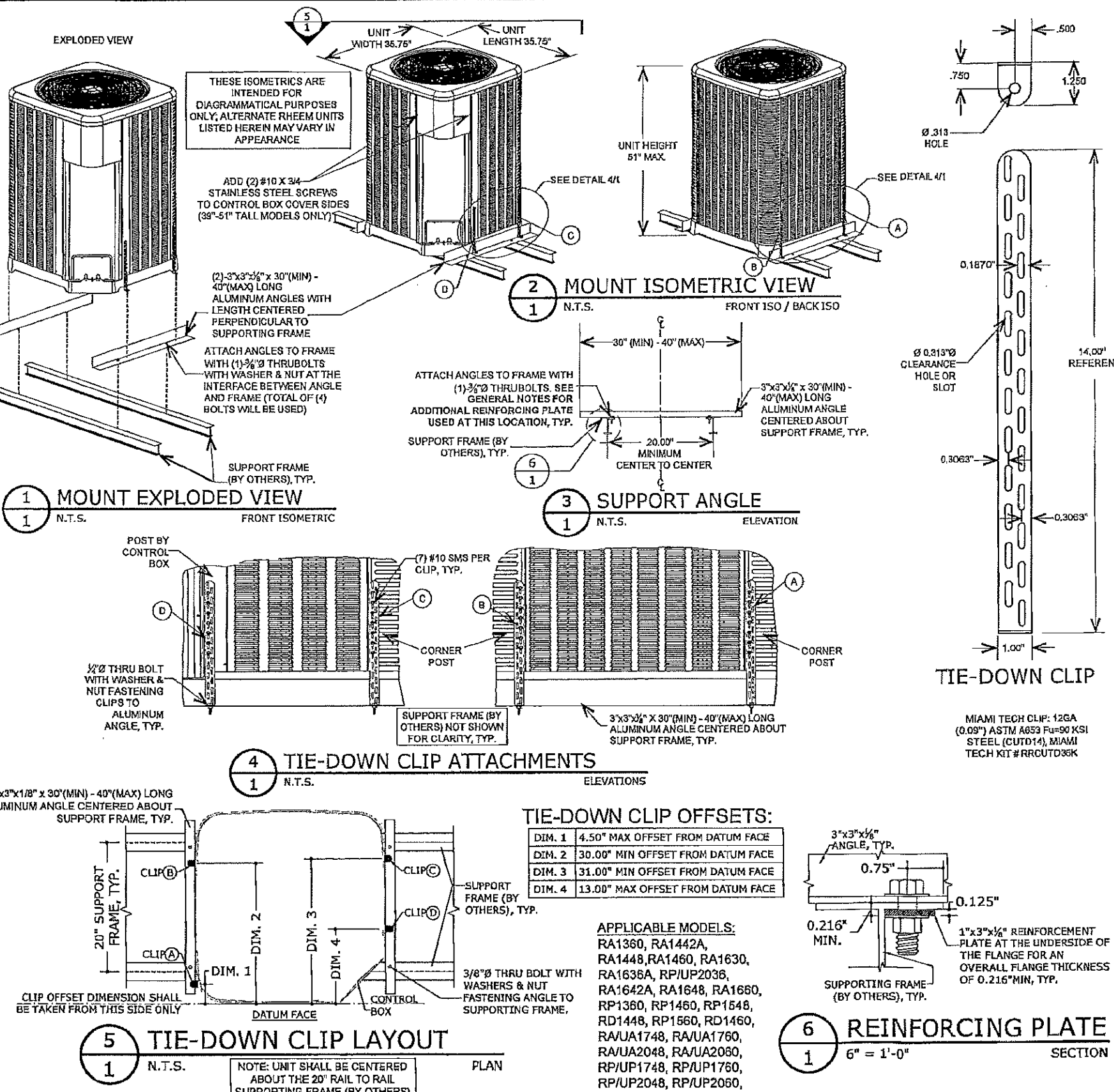
RHEEM SALES COMPANY, INC.
5600 OLD GREENWOOD RD
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DRWN	CHKD	DATE
JAC	TSB	05/14/15

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