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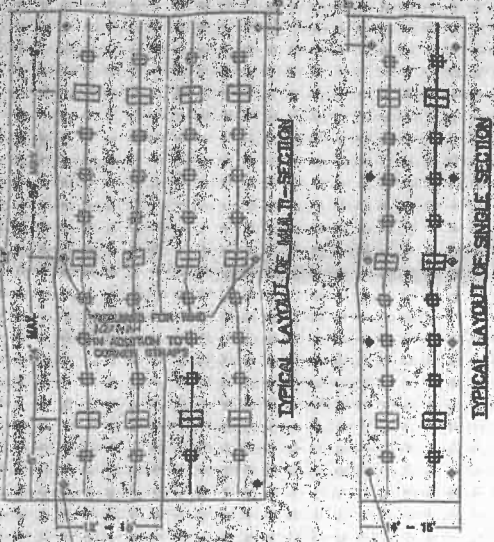
Kittitas County CDS

U.S. PATENT # 5,862,635



INSTALLATION INSTRUCTIONS

1. INSTALL FOUNDATIONWORKS FOOTINGS AND SUPPORT COLUMNS AS SHOWN ON DRAWING
2. FOUNDATION FOR CHASSIS BEAM SUPPORT SHALL BE LOCATED AND SIZED FOR THE LOADS AS SHOWN BY THE MANUFACTURED HOME INSTALLATION INSTRUCTIONS.
3. LEVEL THE SOIL AND PLACE REINFORCED CONCRETE FOOTING BELOW MANUFACTURED HOME, AS PER LAYOUT ON THIS SHEET. SAND OR LOW GRADE MAY BE USED TO FILL IN VOIDS UNDER FOOTINGS, WHERE GROUND IS UNEVEN. FOOTING MUST BE PLACED BELOW FROST LINE.
4. SINGLE AND DOUBLE UNITS:
[illegible] UP TO THE PERIMETER WALL OF THE MANUFACTURED HOME MAY BE ROTATED SO THAT THE LONG DIMENSIONS OF THE FOOTINGS ARE PARALLEL TO THE MAIN FRAME, DUE TO SITE OR SET-UP CONDITIONS.
5. SET SUPPORT COLUMN TO ITS LOWEST SETTING, PLACE IT ON CONCRETE FOOTING AND ATTACH IT TO FOOTING WITH 3/8" BOLTS. DO NOT TIGHTEN BOLTS YET IF INSTALLING CROSS-BRACING.
6. RAISE TOP SECTION OF SUPPORT COLUMN UNTIL IT TOUCHES BOTTOM CHASSIS BEAM, THEN LOWER UNTIL HOLES LINE UP AT CORSE ADJUSTMENT LOCATION. INSTALL 5/8" BOLT THROUGH SUPPORT COLUMN, THEN TIGHTEN.
7. TURN LARGE NUT UNDER HEAD UNTIL PLATE CONTACTS BEAM. INSTALL 3 CLAMP PLATES AND TIGHTEN FIRMLY. DO NOT TIGHTEN CLAMP BOLTS YET IF INSTALLING CROSS-BRACING.
8. FOR FINAL FINE ADJUSTMENT AND LOAD TRANSFER TO FOOTING AND SUPPORT COLUMNS, TURN LARGE NUT UNDER HEAD

BEAM SIZE NOTES

SPACING SHOWN ON THIS PLAN ARE FOR HOMES WITH 10" BEAMS MIN

TIE DOWN NOTES

REFER TO TIE DOWN CHARTS ON THIS PAGE FOR SPACING REQUIREMENTS.

ALL TIE DOWNS MUST HAVE A WORKING LOAD OF 3150 LBS. OF VERTICAL RESISTANCE.

HOME LENGTH NOTES

SINGLE WIDE
WIND 100 M.P.H. EXPOSURE C
UP TO 44' 6 FOOTINGS AND COLUMNS
45' - 60' 10 FOOTINGS AND COLUMNS
OVER 60' 14 FOOTINGS AND COLUMNS

DOUBLE WIDE
WIND 100 M.P.H. EXPOSURE C
UP TO 44' 4 FOOTINGS AND COLUMNS
45' - 60' 8 FOOTINGS AND COLUMNS
OVER 60' 8 FOOTINGS AND COLUMNS

TIE DOWN NOTES

SINGLE WIDE AND MULTI-SECTION HOMES SHALL HAVE AUGER AND STRAP TYPE TIE DOWNS PLACED AT EACH CORNER ONLY.

TIE DOWNS SHOULD BE AN AUGER AND STRAP TYPE RATED FOR A MINIMUM OF 4250 LBS. PULLOUT.

GENERAL NOTES

DESIGN LOADS:
ROOF LOADS - 30 PSF
FLOOR LOADS - 40 PSF

MULTI-SECTION
WIND 100 M.P.H. EXPOSURE C
SEISMIC DESIGN CAT D

SINGLE WIDE
WIND 100 M.P.H. EXPOSURE C
SEISMIC DESIGN CAT D

THE DESIGN LOADS SHALL BE CONSISTANT WITH ROOF LIVE LOAD, WIND LOAD AND SEISMIC ZONE AS ESTABLISHED FOR PERMANENT BUILDINGS WITH A SPECIFIC LOCAL AREA.

SEISMIC
Ss = 1.39 SITE CLASS D
S1 = 0.69
IE = 1.00
SEISMIC USE GROUP I
SEISMIC DESIGN CAT D
SDS = 1.09
SD1 = 0.69

THIS FOUNDATION IS INTENDED TO BE CONSTRUCTED ON SITES WITHOUT ANY EXISTING OR POTENTIAL SLOPING AREAS GREATER THAN 1000 PSF SOIL AND SHALL BE SUITABLE WITH LOCAL SOIL CONDITIONS, HOWEVER, THE SITE MUST BE SUITABLE FOR BUILDING INSTALLATION.

IN AREAS WHERE SETTLEMENT MAY OCCUR, MANUFACTURED HOMES SHOULD BE RE-LEVELED WHEN IT ADVERSELY AFFECTS THE MANUFACTURED HOME.

FOR TRIPLE WIDE AND WIDER HOMES, USE THE SAME PIER LAYOUT FOR EACH SECTION OF A DOUBLE-WIDE HOME OF THE SAME LENGTH.

INSTALLATION MEAN ASCENDING AND DESCENDING SLOPES SHALL BE IN ACCORDANCE WITH SEC 1609.3.1 AND 1609.3.2 UNLESS A SITE SPECIFIC GEOTECHNICAL REPORT RECOMMENDS OTHERWISE.

COMPACTED GRANULAR FILL OVER 12" IN DEPTH SHALL HAVE A COMPACTION TEST PERFORMED TO ENSURE ADEQUATE COMPACTION IS PRESENT.

SPECIFICATIONS

- BUILD ACCORDING TO A.W.S.D. 1.1-98 SPECIFICATIONS
- A.W.S. WELD WIRE ER70S-6
- PLATES A572M A36
- PIPE SCHEDULE 40
- SUPPORT COLUMN BOLTS S.A.E. GRADE 5
- FOOTINGS 3000 PSI @ 28 DAYS LIGHTWEIGHT REINFORCED CONCRETE

FOUNDATIONWORKS SUPPORT ASSEMBLIES SHALL BE COATED WITH ROBERT THOMSON COATINGS CHASSIS PAINT #8-8-245 OR EQUIVALENT.

TESTING

TESTS PERFORMED BY: PR LAB #89-04124-1

SEE EXAMPLE LABEL FOR LOAD VALUES

LISTING

THIS PRODUCT HAS BEEN LISTED BY T.S. ARNOLD AND ASSOCIATES, INC. FILE #7001 W-QUINET

CERTIFICATION

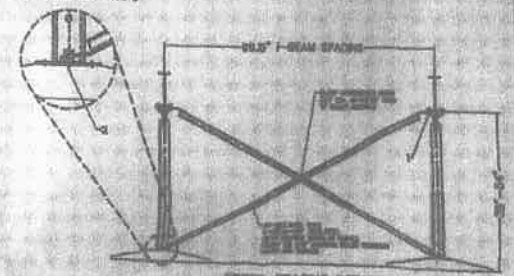
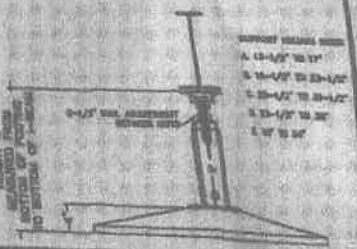
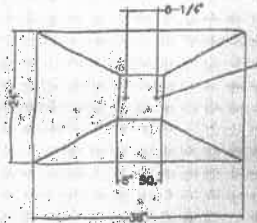
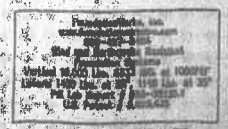
THIS IS TO CERTIFY THAT THE SUBJECT FOUNDATIONWORKS, INC. SYSTEM IS CAPABLE OF WITHSTANDING ALL RATED DESIGN LOADS. THIS CERTIFICATION IS PUBLICATED UPON THE PROPER INSTALLATION AND TIGHTENING OF THE SUPPORT COLUMNS.

FOUNDATION INSTALLED PER THE MANUFACTURERS INSTRUCTION COMPLIES WITH THE HUD GUIDE FOR PERMANENT FOUNDATIONS 1984.

SPECIAL CONDITIONS

PLEASE CONTACT FOUNDATIONWORKS, INC. FOR ANY OF THE FOLLOWING CONDITIONS:

- SNOW LOADS GREATER THAN 30 PSF
- FLOOD PLAIN LOCATIONS
- PIER HEIGHTS GREATER THAN 28" REQUIRES CROSS-BRACING AND LONGITUDINAL BRACING

CROSS-BRACING NOTES

1. INSTALL FIRST DIAGONAL CROSS BRACE WITH THE BANDS, THERE ATTACHING TO THE CLOSEST PIER OF THE PAIR. ATTACH NUT TO HOLD IN PLACE
2. THE OTHER END OF THE CROSS BRACE IS NOW ATTACHED TO THE OPPOSITE PIER VIA AN ADDITIONAL BOLT WELDED TO THE BASE PLATE. INSTALL NUT TO HOLD IN PLACE.
3. INSTALL THE SECOND DIAGONAL BRACE OPPOSITE OF THE FIRST.
4. ATTACH LONGITUDINAL BRACING TO ENDING BOLT ON BASE PLATE OF PIER THAT IS USED TO ATTACH WEB TO FOOTING.
5. CLAMP HEAD ASSEMBLY OF LONGITUDINAL BRACE TO I-BEAM BUT DO NOT TIGHTEN BOLTS YET. INSTALL BOLT INTO BOTTOM OF HEAD ASSEMBLY UNTIL IT REACHES THE BOTTOM FLANGE OF THE I-BEAM. THIS BOLT IS USED TO ASSIST CLOSE IRON TIGHTEN ALL I-BEAM CLAMP NUTS ON LONGITUDINAL BRACE HEAD ASSEMBLY.
6. TIGHTEN ALL NUTS AND BOLTS ON SUPPORT COLUMNS, PIERS AND BRACING.
7. TRANSFER LOAD OF HOME ONTO FOUNDATIONWORKS PIERS USING THE PIER ADJUSTMENT (UNLOADING NUT).
8. FOR THIS STEP A 10" SPOT-UP BOLT AT END A 10 HORSEPOWER DRILL ARE NEEDED. DRILL HOLE THROUGH CROSS BRACE TUBING (DIRECTLY BEHIND NOLES AS SHOWN). THERE ARE (2) HOLES IN EACH CROSS BRACE ARM. HOLE SIZE IS 13/32". USING 3/8" BOLTS AND NUTS PROVIDED.
9. USE SUPPLIED 5" BOLT TO FASTEN THE CROSS BRACE ARMS TOGETHER AT THE INTERSECTING POINT.