

Sheet 1 of 3

# Office of Statewide Health Planning and Development

ANCHORAGE PRF-APPROVAL

**OPA-2607-07** 

**Equipment Manufacturer: Terrawave Solutions** 

Equipment Type: 24x24 Ceiling Enclosure

## **GENERAL NOTES**

- 1. FORCES PER ASCE 7-05 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE S  $_{DS}$  = 2.00,  $a_p$  = 2.5,  $I_p$  = 1.5 &  $R_p$  = 2.5
- 2. THIS PRE-APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE AND COVERS THE ANCHORAGE OF THE UNIT ONLY.
- 3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA. THE ELEVATED FLOOR DETAILS MAY BE USED AT ANY HEIGHT IN A BUILDING.
- 4. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE STRENGTH LEVEL LOADS AND MAY BE USED FOR STRENGTH DESIGN.
- 5. THIS PRE-APPROVAL COVERS THE ANCHORAGE OF THE UNIT ONLY.

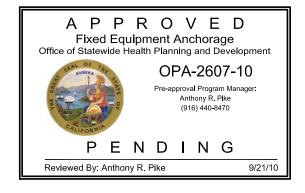
### RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- 6. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS. THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE UNITS FOR THE LOADS IMPOSED ON THEM BY THE UNITS AS WELL AS ALL OTHER LOADS.
- 7. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- 8. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2010 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL.

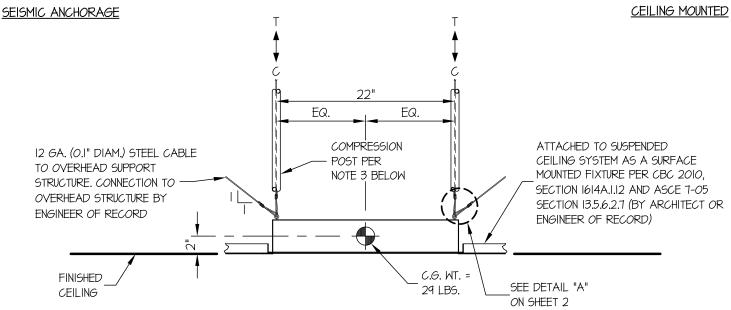
  VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND

  GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.









FRONT ELEVATION

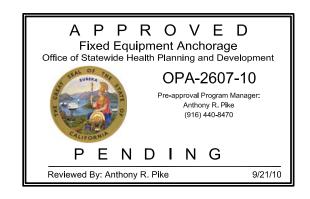
### NOTES:

1. ANCHORAGE DESIGN PER 2010 CALIFORNIA BUILDING CODE - SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. STRENGTH DESIGN IS USED.

HORIZONTAL FORCE (E<sub>h</sub>) = 3.60 W<sub>p</sub> (S<sub>DS</sub>= 2.00,  $a_p$  = 2.5,  $I_p$  = 1.5,  $R_p$  = 2.5) VERTICAL FORCE (E<sub>v</sub>) = 0.40 W<sub>p</sub>

- 2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 3. ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- 4. SEE GENERAL NOTES: SHEET 1





T MAX = 64 LBS/CABLE

# TERRAWAVE SOLUTIONS 24 x 24 CEILING ENCLOSURE DES. J. ROBERSON JOB 11-1059 DATE 9/21/10 OF 3 SHEETS

SEISMIC ANCHORAGE CEILING MOUNTED

