

# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL	OFFICE USE ONLY							
OF MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0284-13							
OSHPD Preapproval of Manufacturer's Certification (OPM)								
Type: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 O	PA Number:							
Manufacturer Information								
Manufacturer: Milestone AV Technologies								
Manufacturer's Technical Representative: Michael Harrell								
Mailing Address: 8401 Eagle Creek Parkway, Ste 700, Savage, MN. 55378								
Telephone: (952) 225-6313 Email: Michael.harrell@milestone.com								
Product Information	OMB							
Product Name: XSM1U & XTM1U Series Monitor Wall Mounts								
Product Type: Computer OPM-0284-13								
Product Model Number: XSM1U, XTM1U	Lin Ei							
General Description: Wall Mount for Video Monitor								
Q DATE: 02/18/2016	<u> </u>							
F	202							
Applicant Information	\$ '							
Applicant Company Name: EASE Co.	COA							
Contact Person: Jonathan Roberson, S.E.								
Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709								
Telephone: (909) 606-7622 Email: J.Rob	person@EASECo.com							
I hereby agree to reimburse the Office of Statewide Health F accordance with the California Administrative Code, 2013.								
Signature of Applicant:	Date: 12/7/15							
Title: Principal Engineer Company Name: EASE	E Co.							

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

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os Dpd

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 1/24/13)

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# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations								
Company Name:	EASE Co.							
Name: Jonat	han Roberson, S.E.	California License Numb	per: S4197					
Mailing Addres	Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709							
Telephone:	909-606-7667	Email: <u>J.Roberson@EASE</u>	ECo.com					
OSHPD Spec	OSHPD Special Seismic Certification Preapproval (OSP)							
(Separate	Seismic Certification is preapproved under OS e application for OSP is required) Seismic Certification is not preapproved	SP-						
Certification	Certification Method(s)							
	accordance with:	☐ FM 1950-10						
	(A)							
component sur		or distribution system, interior	partition wall, and suspended					
Experience	ce Data DATE: 02/	/18/2016 m						
☐ Combinat	ion of Testing, Analysis <mark>, and/</mark> or Experience [	Data (Please Specify):						
List of Attac	hments Supporting the Manufacturer's	s Certification						
☐ Test Repo	ort	Ilations	rer's Catalog					
	ONLY – OSHPD APPROVAL VALID FOR C							
	Well Sade	Date:	02/18/2016					
	William Staehlin							
Title: SSE	oproval (if applicable):							
Condition of A								

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 1/24/13)

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5877 Pine Ave, Ste. 210 Chino Hills, CA. 91709 Phn: (909) 606-7622

Office of Statewide Health Planning and Development PREAPPROVAL OF MANUFACTURER'S CERTIFICATION OPM-0284-13

THIS PREAPPROVAL CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE

MANUFACTURER: MILESTONE INC.

XSM1U & XTM1U SERIES MONITOR WALL MOUNT

Sheet: 1 of 8 Date: 2/10/16

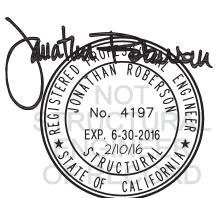
### **GENERAL NOTES**

**EQUIPMENT NAME:** 

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2013 CBC
- 2. THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTED ABOVE FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
- 3. THIS PREAPPROVAL CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 2.20.
- 4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 43.3-2 & 13.3-3, WHERE SDS = 2.20,  $\mathbf{a}_D$  = 2.5,  $\mathbf{I}_D$  = 1.5,  $\mathbf{R}_D$  = 2.5,  $\mathbf{z}/\mathbf{h}$  < 1 CONCRETE WALL. SEE FOLLOWING SHEETS FOR  $\Omega_0$
- 5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW BUILDEX (ICC ESR-1976).
- 8. CONCRETE WALL DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION. (i.e. z/h < 1)

### 9. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

- A. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
- C. VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev ) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- D. VERIFY THAT THE CONCRETE WALL TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR.
- E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY CONCRETE WALL EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).
- F. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 6hef FROM THIS UNIT'S ANCHORS.
- G. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.



# EASE

## EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

# MILESTONE INC.

# XSM1U & XTM1U SERIES MONITOR WALL MOUNT

DES. J. ROBERSON

**JOB NO.** 11-1518

DATE **2/10/16** 

2

SHEETS

### 9. EXPANSION ANCHORS:

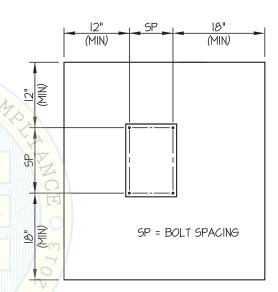
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. fc (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
1/4"	Normal Weight	3000	Hilti Kwik HUS	ESR-3027	1.92"	2.5"	12"	6"	N/A	779

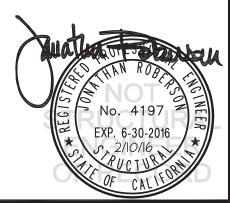
- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE WALL EDGES, 12" AWAY MINIMUM (i.e. CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.
- C. TESTING OF CONCRETE SCREW ANCHORS PER 2013 CBC, 1913A.7:
  TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL
  INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE
  SUBMITTED TO OSHPD
  - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST OR AT LEAST 50% OF THE ANCHORS.
  - (ii) ACCEPTANCE CRITERIA:

BY: William Staehlin

- DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
- (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.
- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE WALL WHEN INSTALLING CONCRETE SCREW ANCHORS.
- E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.



TYPICAL CONCRETE EDGE DETAIL



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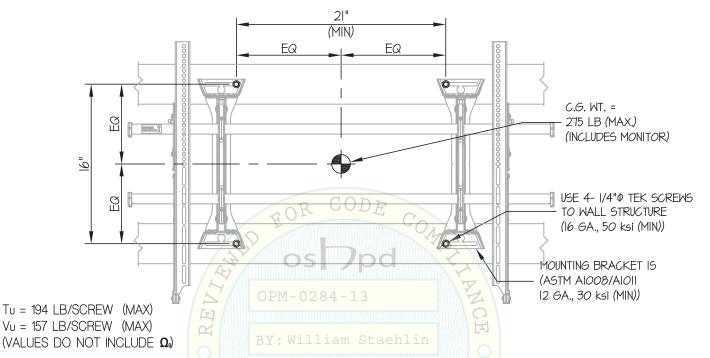
11-1524 JOB NO.

2/10/16 DATE

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



OELEVATION AT WALL PLATED (XSMIU MODEL SHOWN)

### NOTES:

1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.

STRENGTH DESIGN IS USED. (Sps = 2.20, 2p = 1.0, 1p = 1.5, Rp = 2.5,  $\Omega_0$  = 2.5,  $z/h \le 1$ )

HORIZONTAL FORCE (En) = 1.58 Wp BUILDING

HORIZONTAL FORCE (Emh) = 3.96 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E<sub>V</sub>) = 0.44 W<sub>p</sub>

2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER

LOADS THAT MAY BE PRESENT.

4. SEE GENERAL NOTES: SHEETS 1 AND 2.



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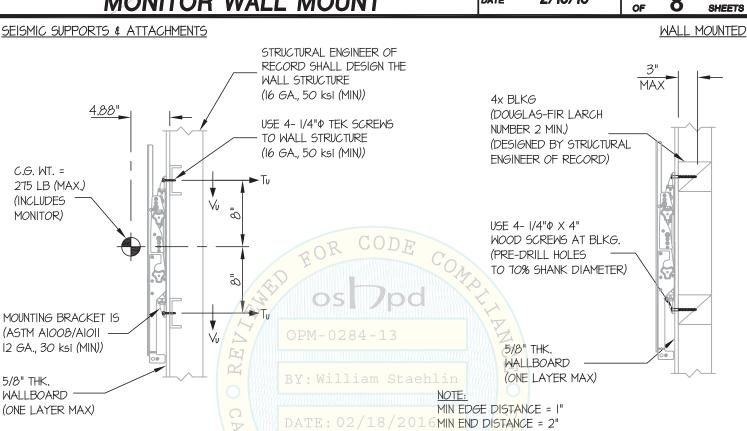
XSM1U & XTM1U SERIES MONITOR WALL MOUNT

DES. J. ROBERSON

11-1524 JOB NO.

2/10/16 DATE

SHEETS



STEEL STUD WALL SECTION (XSMIU MODEL SHOWN)

WOOD STUD WALL SECTION (XSMIU MODEL SHOWN)



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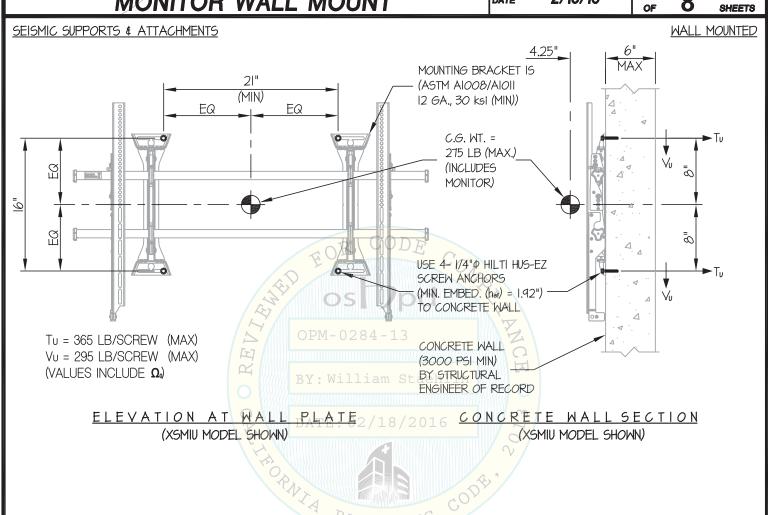
DES. J. ROBERSON

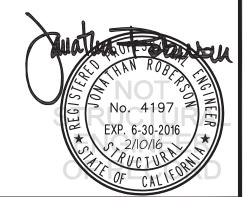
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SHEET

SHEETS





2/10/16

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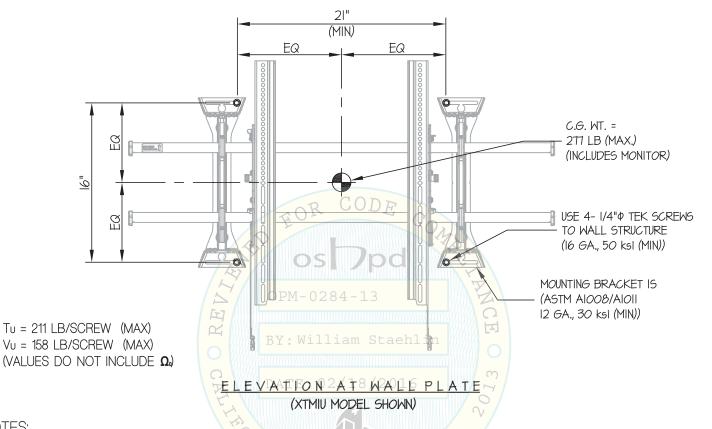
11-1524 JOB NO.

DATE

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



### NOTES:

1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.

STRENGTH DESIGN IS USED. (SDS = 2.20, 20 = 1.0, 10 = 1.5, 10 = 2.5, 20

HORIZONTAL FORCE (En) = 1.58 Wp

HORIZONTAL FORCE (Emh) = 3.96 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.44 Wp

- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
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- 4. SEE GENERAL NOTES: SHEETS 1 AND 2.

5/8" THK. WALLBOARD

(ONE LAYER MAX)

## **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

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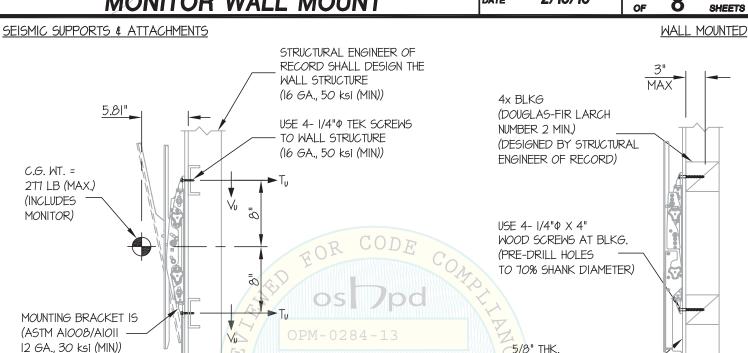
DES. J. ROBERSON

11-1524 JOB NO.

2/10/16 DATE

SHEET

SHEETS



STEEL STUD WALL SECTION (XTMIU MODEL SHOWN)

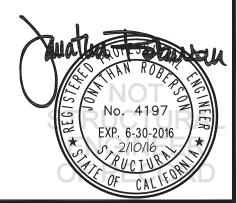
WOOD STUD WALL SECTION (XTMIU MODEL SHOWN)

WALLBOARD (ONE LAYER MAX)

MIN EDGE DISTANCE = I"

NOTE:

DATE: 02/18/2016 MIN END DISTANCE = 2"



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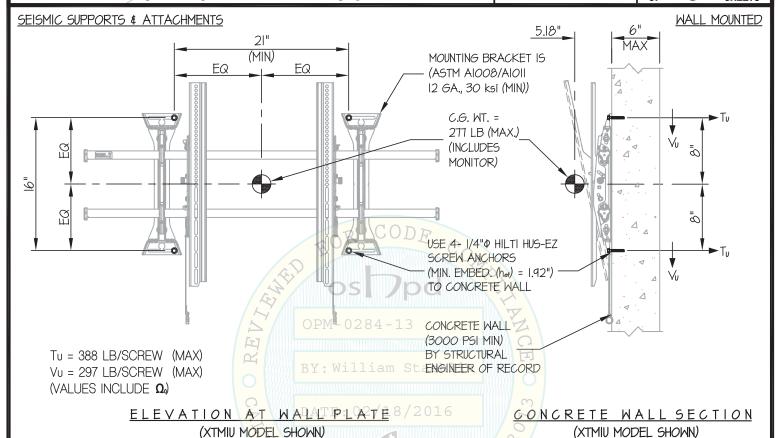
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OPNIA BUILDING

