

#### DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION **FACILITIES DEVELOPMENT DIVISION**

#### APPLICATION FOR HCAI PREAPPROVAL OF **MANUFACTURER'S CERTIFICATION (OPM)**

OFFICE USE ONLY

APPLICATION #: OPM-0620

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Type:  X   New	Renewal/Update
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Manufacturer Information				
Manufacturer: MEDIK Hospital Design				
Manufacturer's Technical Representati	e: Jean-Paul Isroe			
Mailing Address: Eiffestraße 78, Hamb	urg, xx 20537			
Telephone: (123) 456-7890	Email: Jean-paul.isroe@medik-hd.com			

Jeffrey Kikumoto

#### **Product Information**

Product Name: STERIS/MEDglas Prefabricated Wall System

Product Type: Prefabricated Wall System

Product Model Number: Not Applicable

General Description: The STERIS/MEDglasTM Prefabricated Wall System provides a "hygienic" finished wall surface in Hospital Operating Rooms and other interior wall conditions. This wall system has an independent structure that supports glass panels which serves as the finish in front of a wall assembly and can accommodate integration of medical equipment and MEP services. For this Testing Program finishes to the back side of the substructure such as gypsum board or lead lining have not been considered. The STERIS/MEDglasTM Prefabricated Wall System is composed of glass panels point attached to a light gauge steel substructure via aluminum holding clips adhered to the glass and screwed to a single vertical tube at every glass panel gap. The glass panels dead load down on a light gauge steel curb and transfer lateral loads via the holding clips back to the substructure. A top and bottom light gauge track provide lateral support for the light gauge steel tubes. All gaps between the glass panels, between glass panels and trim pieces, and between the bottom edge of the glass panel and a cove base placed in front along the steel curb are filled with a non-corrosive silicon sealant. The top edge of the glass is closed off by a light gauge steel ceiling profile trim that is secured to the substructure with screws, but not glued to the glass. The glass panels have a colored opaque thermoplastic powder coating baked onto the back during fabrication, which can be custom designed for each wall and/or room to a selected color or scenery of the client's choosing. An additional option is for the upper 305mm [12"] of the glass panel to be coated with a translucent white color allowing ambient light from a LED source in an aluminum light box to shine through. Also, a steel panel typically 762mm [30"] tall by the panel width can be attached to the backside of the glass that provides a magnetic surface, like a bulletin board.

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





STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



Title: Partner

## DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Applicant Information			
Applicant Company Name:			
Contact Person: Jacqueline Vinkler			
Mailing Address: 950 S. Grand Avenue, Fourth Floor, Los		or, Los	Angeles, CA 90015
Telephone: (213	) 483-6490	Email:	vinkler@johnmartin.com



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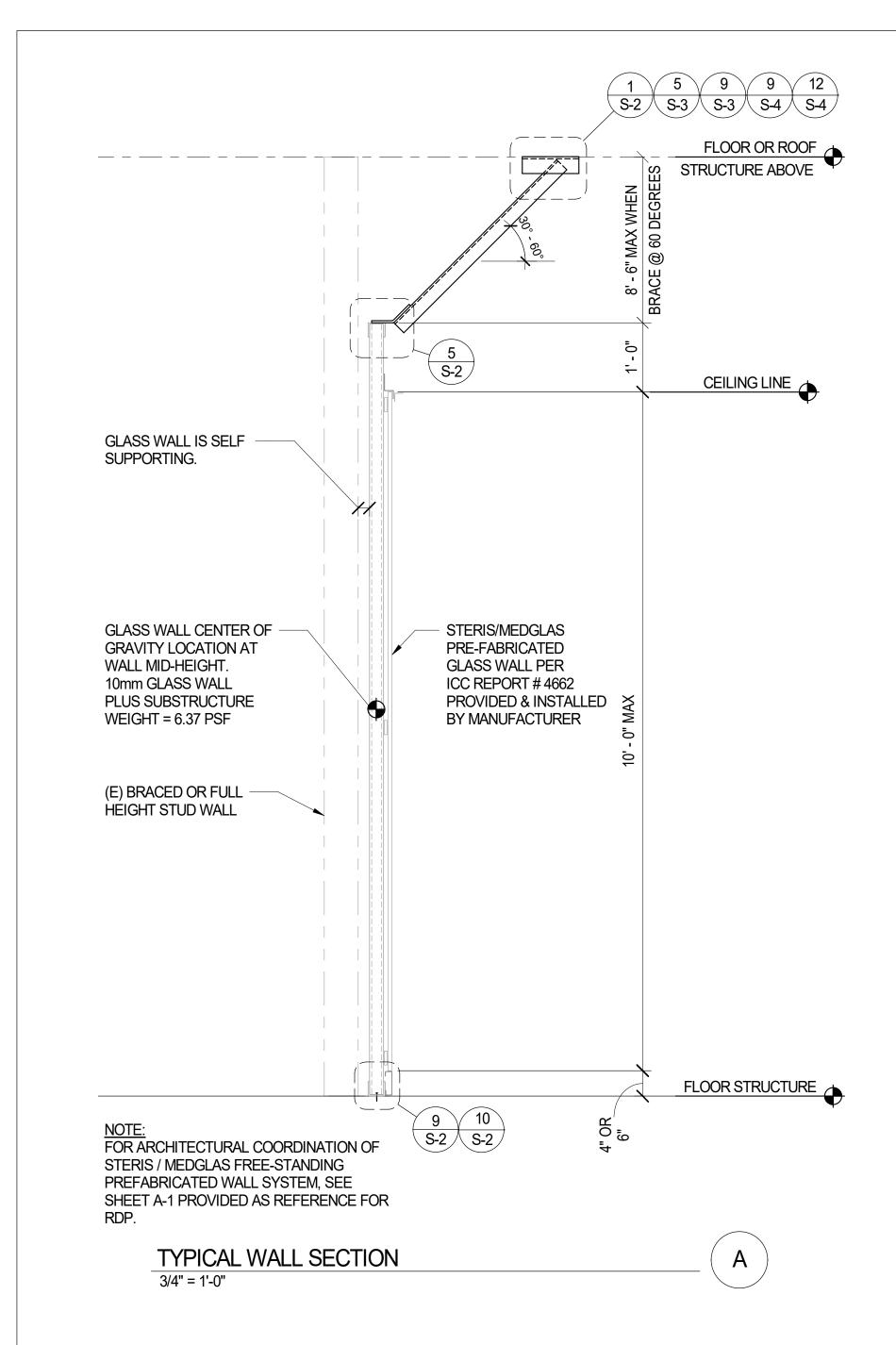
## DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations			
Company Name: JOHN A. MARTIN & ASSOCIATES, INC.			
Name: Jacqueline Vinkler California License Number: S4412			
Mailing Address: 950 S. Grand Avenue, Fourth Floor, Los Angeles, CA 90015			
Telephone: (213) 483-6490 Email: vinkler@johnmartin.com			
HCAI Special Seismic Certification Preapproval (OSP)			
Special Seismic Certification is preapproved under OSP OSP Number:			
FOR CODE COA			
Certification Method			
Testing in accordance with: X ICC-ES AC156 FM 1950-16			
Other(s) (Please Specify):			
*Use of criteria other than those adopted by the California Building Standards Code, 2019 (CBSC 2019) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2019 may be used when approved by HCAI prior to testing.			
X Analysis			
Experience Data  DATE: 07/25/2022			
Combination of Testing, Analysis, and/or Experience Data (Please Specify):			
CONTRACTOR OF THE PROPERTY OF			
HCAI Approval			
Date: 7/25/2022			
Name: Jeffrey Kikumoto Title: Senior Structural Engineer			
Condition of Approval (if applicable):			

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#### POST INSTALLED ANCHORS

- EXPANSION WEDGE ANCHORS INTO CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
   A. HILTI KB-1 IAPMO ER 678
   B. HILIT KB-TZ2 ICC ESR 4266
- B. THEIT NO-122 100 LOIX 4200
- 3. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER SHALL DETERMINE A NEW LOCATION.
- 4. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER LIGHT GAGE STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN DETAILS

5. CONCRETE MUST HAVE ATTAINED ITS MIN DESIGN STRENGTH PRIOR TO INSTALLATION OF THE ANCHORS AND MUST HAVE A MIN AGE OF 21 DAYS.

#### **ANCHOR TESTING**

- 1. TESTING AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.5 AND CAC 7-149, ALL REPORTS SHALL BE SENT OT THE INSPECTOR OF RECORD, OWNERE AND THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE.
- A. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
- B. TORQUE CONTROLLED ANCHORS ARE PERMITTED TO BE TESTED USING TORQUE BASED ON AN APPROVED EVALUATION REPORT.
- 2. IF NO INSTALLATION TORQUE IS PROVIDED, TEST 50% OF ANCHORS PER METHOD AND IN ACCORDANCE WITH THE VALUES CALCULATED BELOW:

TORQUE WRENCH METHOD: TEST ANCHORS TO THE INSTALLATION TORQUE LOAD WITHIN ONE-QUARTER TURN OF THE NUT FOR SCREW ANCHORS AND ONE-HALF TURN OF THE NUT FOR ALL OTHER ANCHORS.

THE FOLLOWING ARE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUES PER MENTIONED ICC-ESR OR IAPMO-ER REPORTS AND SHALL QUALIFY AS THE REQUIRED TEST LOADS:

ANCHOR Ø (IN)	EMBED HEF (IN)	ANCHOR TYPE	ESR/ER#	TEST TORQUE (FT-LBS)
3/8	2	HILTI KB-TZ2 GALVANIZED CARBON STEEL	ESR-4266	30
3/8	2	HILTI KB-1 GALVANIZED CARBON STEEL	IAPMO ER-678	20

- 4. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOSSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
- 5. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY.

### RESPONSIBILITIES OF THE SEOR/AOR:

- 1. VERIFY THE ADEQUACY OF THE PRIMARY STRUCTURE TO WITHSTAND THE LOADS IMPOSED BY THE WALL ASSEMBLY AND THE ANCHOR FORCES GIVEN IN THIS OPM IN ADDITION TO ALL OTHER LOADS AND FORCES.
- 2. DESIGN ANY SUPPLEMENTARY MEMBERS AND THEIR ATTACHMENT IF REQUIRED FOR THE BRACING OF THE WALL ASSEMBLY
- 3. VERIFY THAT THE CONCRETE SLAB AND/OR DECK WHICH THE WALL ASSEMBLY WILL BE ANCHORED OR BRACED TO MEETS MINIMUM THICKNESS AND COMPRESSIVE STRENGTH PER THE DETAILS.
- 4. VERIFY INSTALLATION IS IN CONFORMANCE w/ THE 2019 CBC & w/ THE DETAILS, MATERIAL & GAGE OF THE COMPONENT WHERE THE ATTACHMENTS ARE MADE AGREE w/ THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS
- 5. VERIFY THAT THE PROJECT SPECIFIC VALUES OF S<sub>DS</sub> & z/h RESULT IN SEISMIC FORCES (Eh, Ev) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.

## IOR INSPECTION REQUIREMENTS:

- 1. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE DETAILS SHOWN IN THIS OPM.
- 2. VERIFY THAT THE SUSPENDED AND/OR FRAMED CEILING DOES NOT CONNECT TO OR IS SUPPORTED BY THE WALL ASSEMBLY.
- 3. VERIFY THAT THE TOP SEISMIC BRACES ARE AT LEAST 6" CLEAR OF BUILDING DUCTS, PIPES, AND/OR CONDUITS TO AVOID IMPACT DURING AN EARTHQUAKE.

#### <u>GENERAL</u>

- . THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM MUST BE BASED ON THE CBC 2019.
- 2. THIS OPM APPLIES ONLY TO THE ANCHORAGE AT THE FLOOR AND LATERAL BRACING AT THE TOP OF STERIS/MEDGLAS PREFABRICATED GLASS WALL SYSTEM AS DEFINED IN ICC ESR # 4662
- ALL WORK SHALL CONFORM TO THE STANDARDS OF THE FOLLOWING: CALIFORNIA BUILDING CODE, 2019 EDITION
- AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING BUT NOT LIMITED TO CAL/OSHA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH, AND THOSE CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CAREFULLY REVIEW THESE DRAWINGS TO IDENTIFY THE EXTENT OF THE SCOPE OF WORK. VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS AND DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS WITH THIS OPM WITH THE OWNER'S

- ANY DEVIATION FROM THIS OSHPD APPROVED OPM SHALL BE SUBMITTED TO THE RDP AND OSHPD FOR REVIEW/APPROVAL BEFORE PROCEEDING WITH THE WORK.
- B. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS. DRAWINGS SHALL NOT BE SCALED.
- MANUFACTURED MATERIALS SHALL BE APPROVED BY THE CHECKING AGENCY PRIOR TO THEIR USE. ALL REQUIREMENTS OF THOSE APPROVALS SHALL BE FOLLOWED.
- ARCHITECTURAL AND LIFE SFETY CODE COMPLIANCES TO BE REVIEWED AT PROJECT SUBMITTAL
- 11. THIS OPM REPRESENT THE FINISHED STRUCTURE. IT DOES NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE MEANS, METHOD, TECHNIQUES, SEQUENCE AND PROCEDURE OF CONSTRUCTION AS REQUIRED.
- STERIS/MEDGLAS PREFABRICATED WALL ASSEMBLY DEAD LOADS:

  A. GLAZING & SUBSTRUCTURE MAXIMUM WEIGHT = 6.5 PSF

  B. MISCELLANEOUS ARCH'L/MEP ACCESSORIES

  & SECONDARY SUBSTRUCTURE = 0.5 PSF
- 13. SEISMIC DESIGN CRITERIA USED FOR THIS OPM:

  A. RISK CATEGORY:

  B. COMPONENT IMPORTANCE FACTOR ( $I_p$ ):

  C. COMPONENT AMPLIFICATION FACTOR ( $a_p$ ):

  D. COMPONENT RESPONSE FACTOR ( $R_p$ ):

  E. OVERSTRENGTH OMEGA FACTOR ( $\Omega_o$ ):

  2.0
- 14. ANCHOR FORCES SHOWN ON THE DRAWINGS ARE ASD OR LRFD LOADS AS APPLICABLE AND ARE NOTED AS SUCH. ANCHOR FORCES ARE BASED ON  $S_{DS}$  =1.95g AND  $z/h \le 0.9$  WHICH ARE THE MAXIMUMS ASSOCIATED WITH THIS OPM
- 15. ADJUSTMENTS TO ANCHOR FORCES BASED ON  $S_{DS}$  AND z/h LESS THAN THE MAXIMUMS ARE ACCEPTABLE IF CALCULATIONS ARE SUBMITTED BY THE SEOR AND APPROVED BY OSHPD.

## LIGHT GAGE BRACING

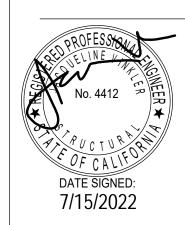
- LIGHT GAUGE FRAMING AND ITS INSTALLATION SHALL COMPLY WITH ICC ESR 3064P.
- 2. FRAMING SHALL COMPLY WITH ASTM A653, SECTION 2210A OF THE CALIFORNIA BUILDING CODE AND SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS OF AISI S100, LATEST EDITION.
- 3. PROVIDE LIGHT GAUGE FRAMING FORMED FROM STANDARD COMMERCIAL STEEL WITH A MINIMUM YIELD AT 33,000 PSI FOR GAUGES 18 AND LIGHTER AND 50,000 PSI FOR GAUGES 16 AND HEAVIER.
- 4. PROVIDE UNPUNCHED TRACK SIZE AND GAGE AS SPECIFIED ON DETAILS.
- 5. CUT BRACING, SQUARELY OR AT AN ANGLE TO FIT TIGHT AGAINST ABUTTING MEMBERS. HOLD MEMBERS FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
- SPLICES IN ANY LIGHT GAUGE MEMBERS NOT SPECIFICALLY DETAILED IN THIS SET OF DRAWINGS ARE NOT ALLOWED.
- OPENINGS IN TRACK WEBS ARE PROHIBITED.
- 8. ALL SHEET METAL SCREWS INDICATED ON THESE DRAWINGS ARE HILTI SELF-DRILLING/SELF-PIERCING SCREWS (ICC ESR-2196) OR PRO-TWIST MARKER & DART SELF-DRILLING SCREWS (ICC ESR 1408). INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ICC REPORT AND MANUFACTURER RECOMMENDATIONS.
- THE MINIMUM SPACING BETWEEN CENTERS OF FASTENERS SHALL NOT BE LESS THAN 3 x FASTENER DIAMETER. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF A FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 1.5 x FASTENER DIAMETER.

#### SHEET INDEX

- -1 GENERAL NOTES & TYP SECTION
  -2 SUPPORTS & ATTACHMENTS
  DETAILS
- S-3 SUPPORTS & ATTACHMENTS DETAILS
  - SUPPORTS & ATTACHMENTS DETAILS



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OSHPD # OPM-0620-TEMP00

**STERIS** 

5960 Heisley Road Mentor, Ohio 44060



OSHPD SUBMITTAL 05/24/2021
OSHPD BACKCHECK #1 03/11/2022
OSHPD BACKCHECK #2 07/15/2022

# STERIS/MEDGLAS™ PREFABRICATED WALL SYSTEM

GENERAL NOTES & TYP SECTION

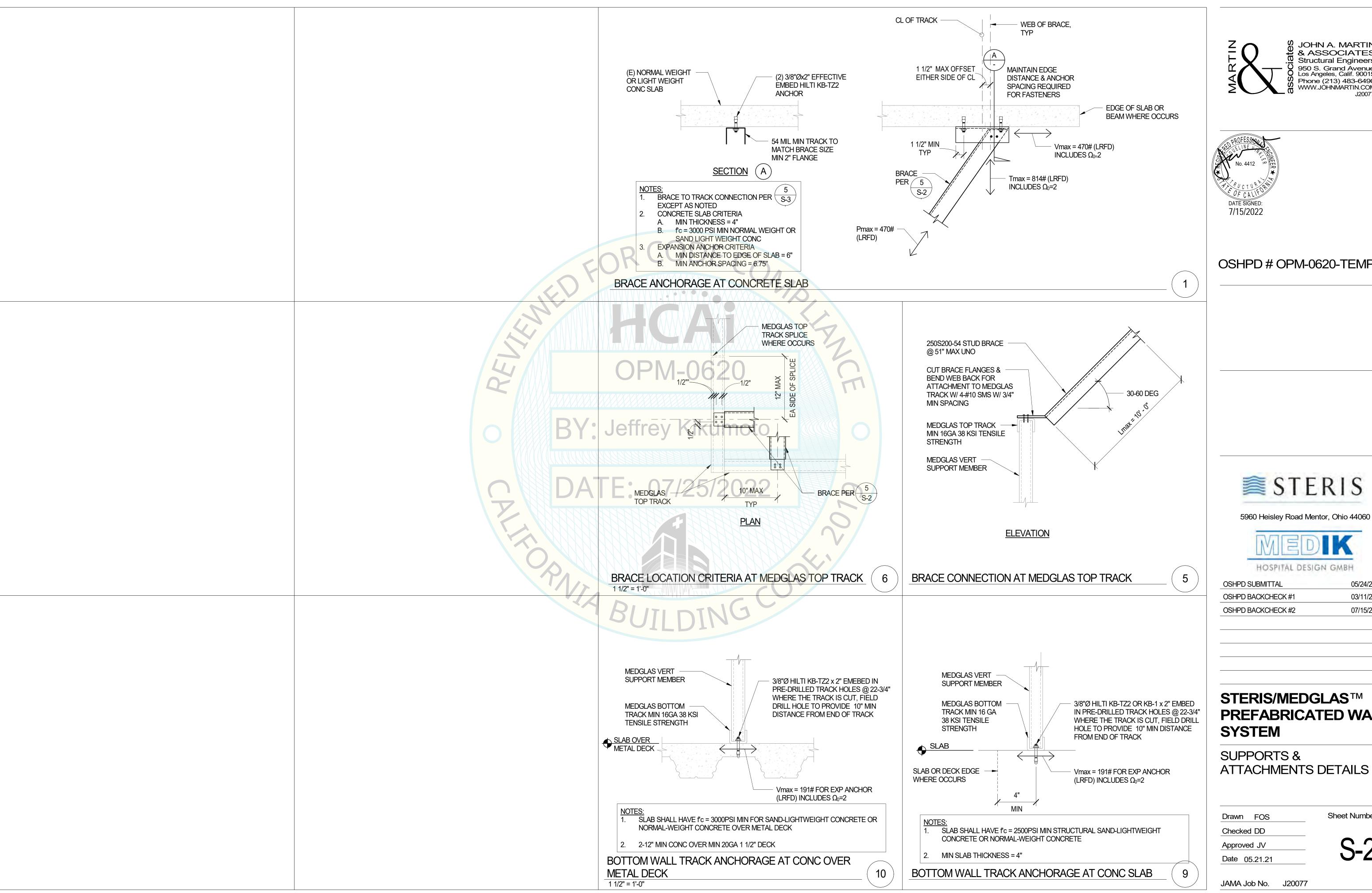
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Approved JV
Date 05.21.21

**S-1** 

Sheet Number

JAMA Job No. J20077

7/25/2022 OPM-0620" Reviewed fro Code Compliance by Jeffrey Kikumoto





S JOHN A. MARTIN & ASSOCIATES Structural Engineers 950 S. Grand Avenue Los Angeles, Calif. 90015 Phone (213) 483-6490 WWW.JÒHNMARTIN.COM



### OSHPD # OPM-0620-TEMP00





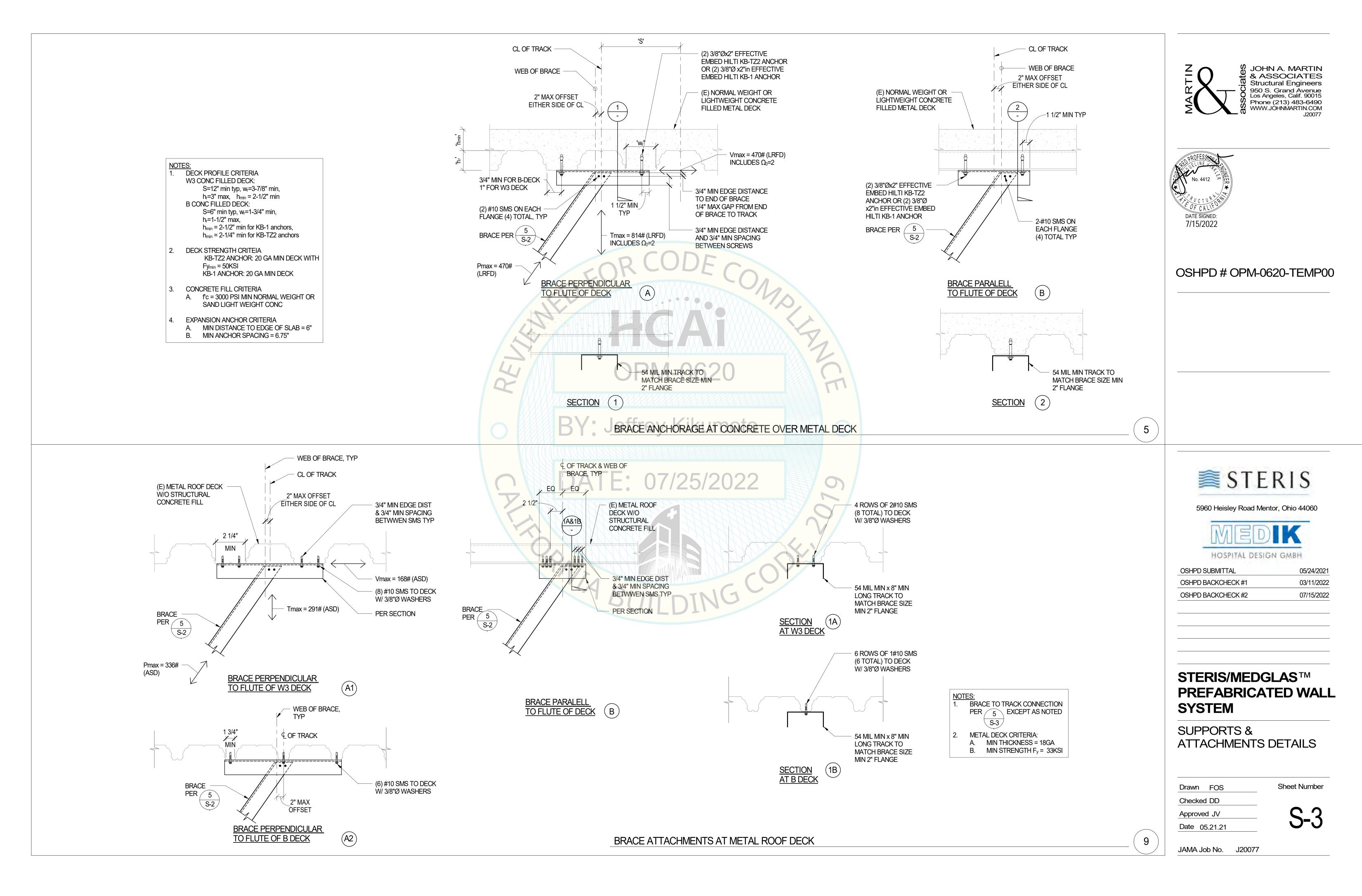
OSHPD SUBMITTAL	05/24/202
OSHPD BACKCHECK #1	03/11/2022
OSHPD BACKCHECK #2	07/15/2022

## STERIS/MEDGLAS™ PREFABRICATED WALL **SYSTEM**

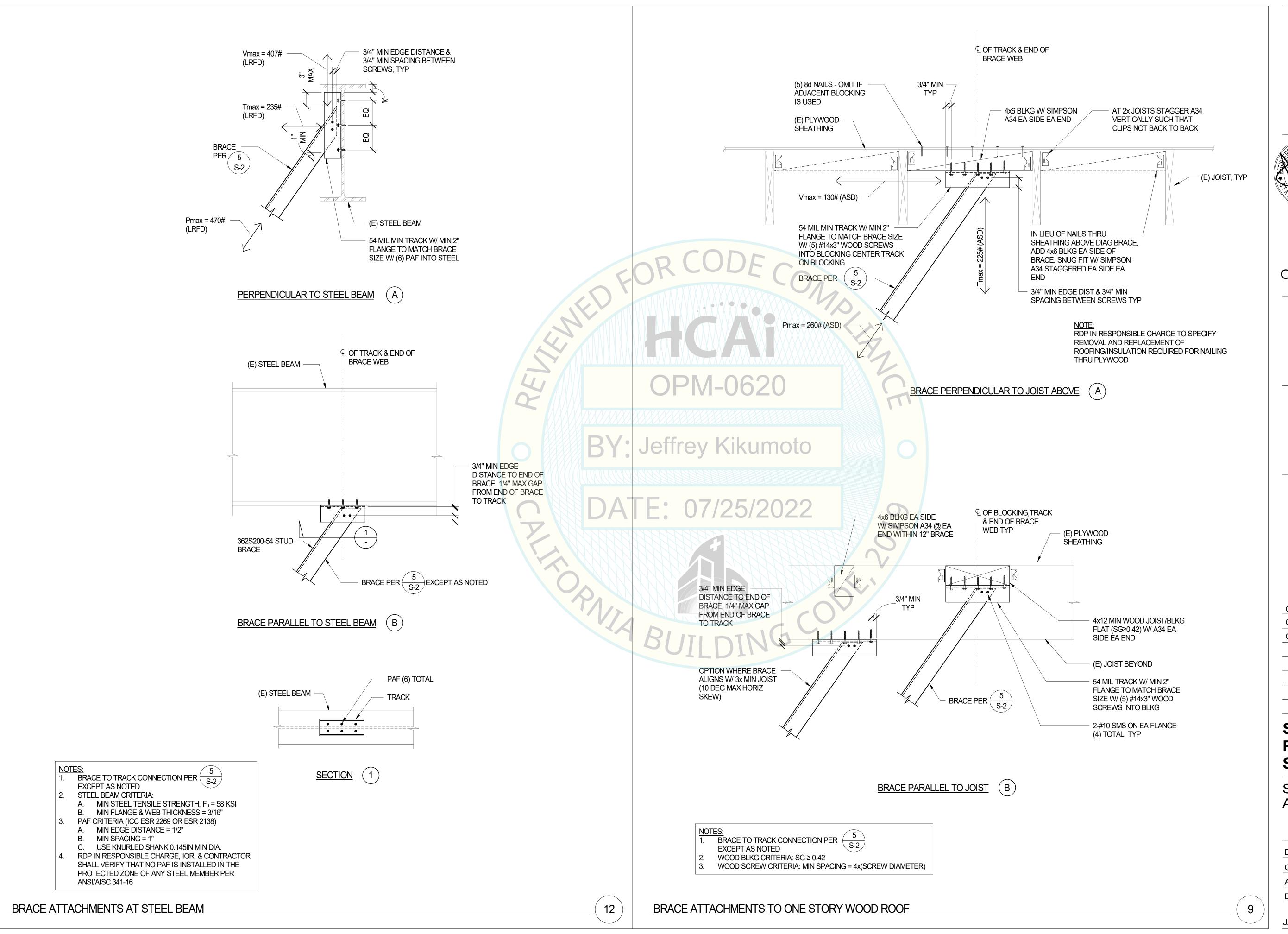
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JOHN A. MARTIN & ASSOCIATES Structural Engineers 950 S. Grand Avenue Los Angeles, Calif. 90015 Phone (213) 483-6490 WWW.JOHNMARTIN.COM



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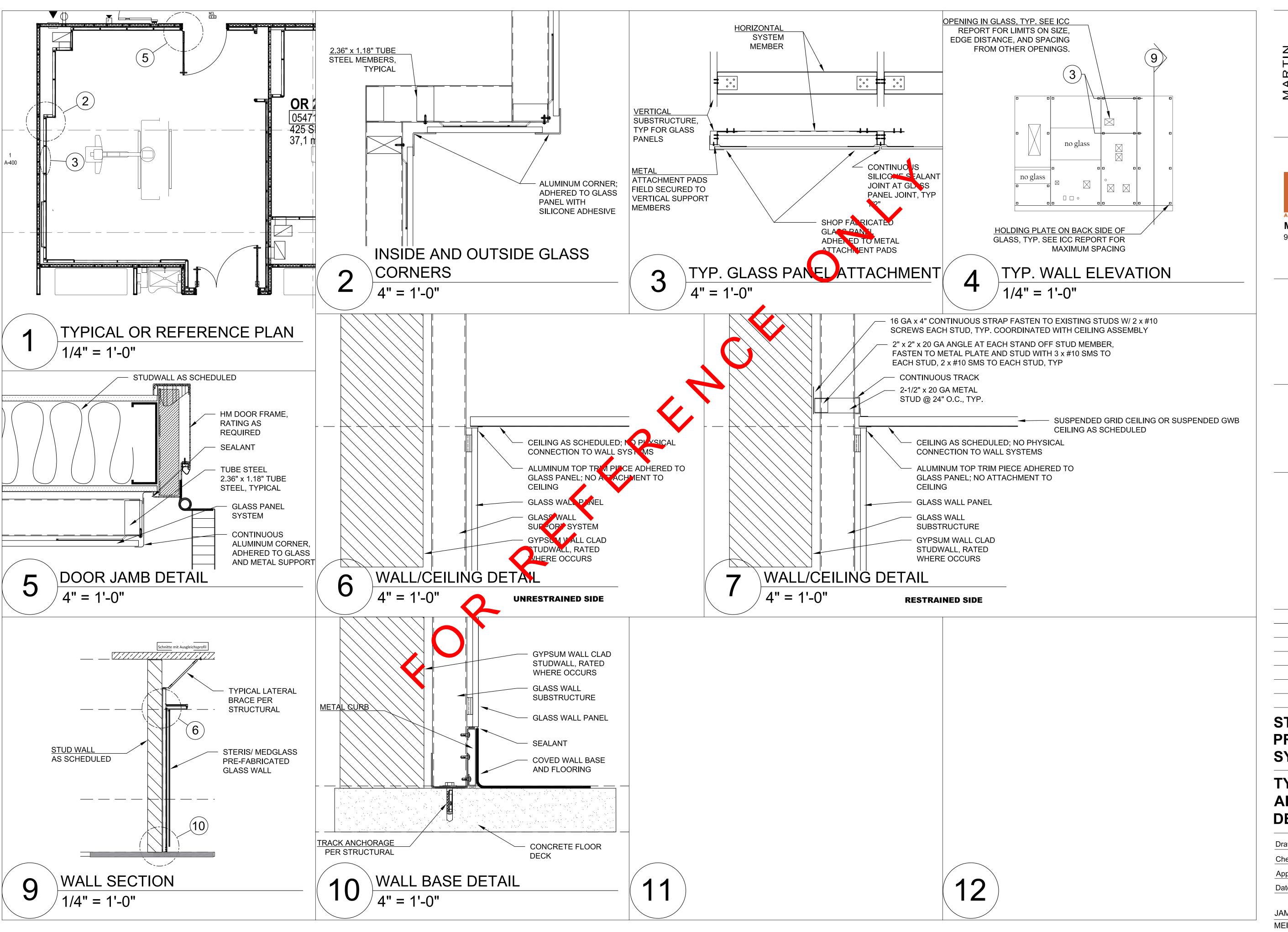
# STERIS/MEDGLAS™ PREFABRICATED WALL SYSTEM

SUPPORTS & ATTACHMENTS DETAILS

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5960 Heisley Road Mentor, Ohio 44060



STERIS/MEDGLAS<sup>TM</sup>
PREFABRICATED WALL
SYSTEM

TYPICAL ARCHITECTURAL DETAILS

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Approved MW	_
Date 05/21/21	

JAMA Job No. J20077 MEI #718

7/25/2022