



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0655

HCAI Preapproval of Manufacturer's Certification (OPM)

Type:  New  Renewal/Update

Manufacturer Information

Manufacturer: MAC Medical

Manufacturer's Technical Representative: Erica Moore

Mailing Address: 820 South Mulberry Str., Millstadt, IL 62260

Telephone: (618) 476-3550

Email: ericamoore@macmedical.com

Product Information

Product Name: Single Three-Basin Sinks

Product Type: Stainless Steel Processing Sinks

Product Model Number: Various Sizes with Fixed & Variable Heights

General Description: Medical Use Processing Sinks

Applicant Information

Applicant Company Name: CYS Structural Engineers, Inc.

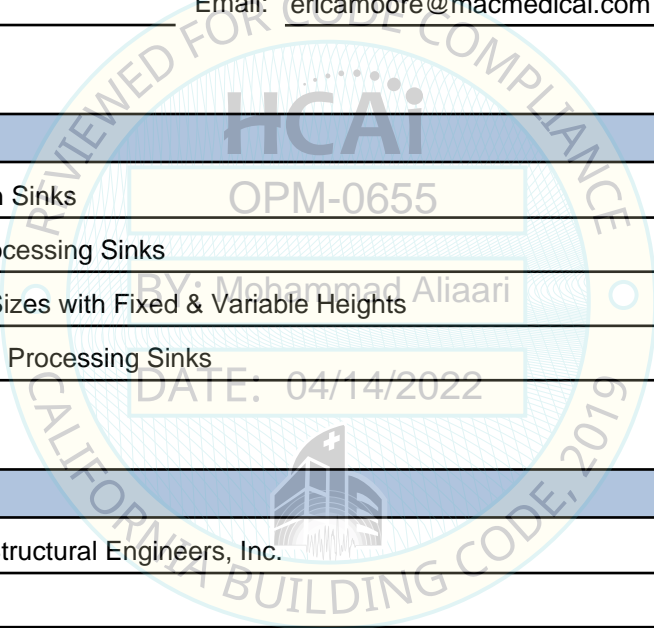
Contact Person: Dieter Siebald

Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833

Telephone: (916) 920-2020

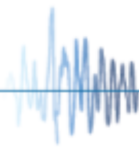
Email: dieters@cyseng.com

Title: Structural Engineer



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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





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

**Registered Design Professional Preparing Engineering Recommendations**

Company Name: CYS STRUCTURAL ENGINEERS, INC.

Name: Dieter Siebald

California License Number: S4346

Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833

Telephone: (916) 920-2020

Email: dieters@cyseng.com

**HCAI Special Seismic Certification Preapproval (OSP)**

Special Seismic Certification is preapproved under OSP

OSP Number: \_\_\_\_\_

**Certification Method**

Testing in accordance with:  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.

Analysis

Experience Data

Combination of Testing, Analysis, and/or Experience Data (Please Specify): \_\_\_\_\_

**HCAI Approval**

Date: 4/14/2022

Name: Mohammad Aliaari

Title: Senior Structural Engineer

Condition of Approval (if applicable): \_\_\_\_\_

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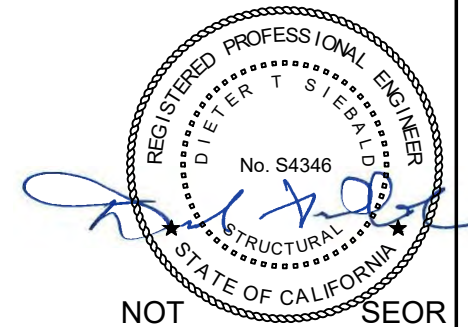
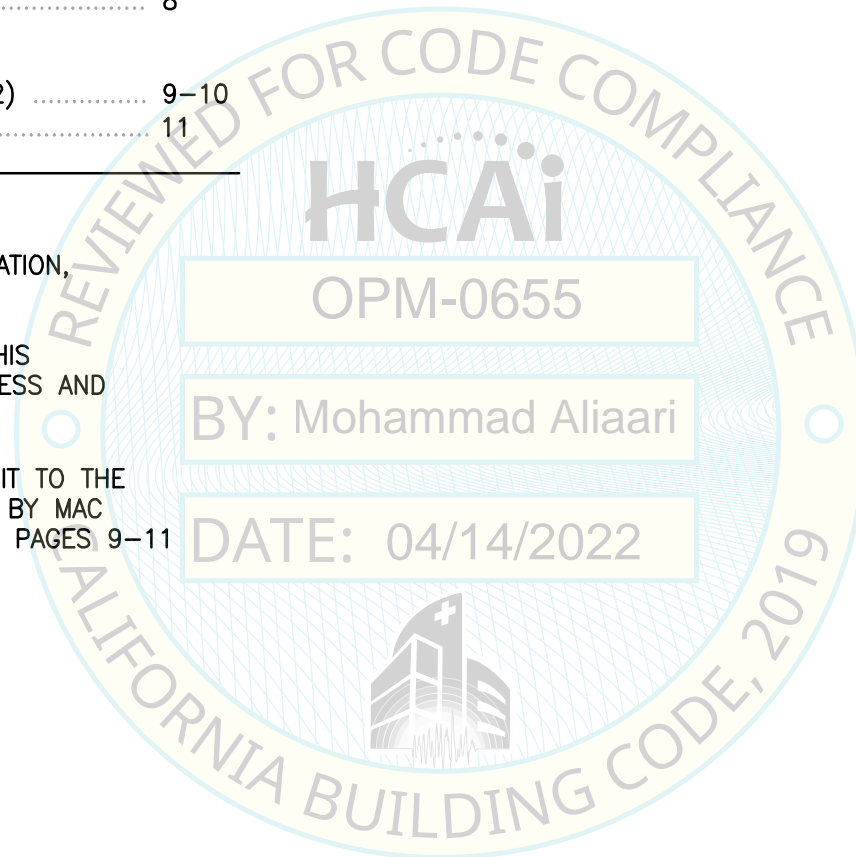


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**OPM-0655**

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**NOTES:**

1. THESE DRAWINGS ARE PREPARED FOR MAC MEDICAL, AN ILLINOIS CORPORATION, MILLSTADT, ILLINOIS.
2. THE CONTRACTOR & INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE CALIFORNIA DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION (HCAI) PRE-APPROVAL WEBSITE.
3. THIS PRE-APPROVAL COVERS THE SUPPORTS & ATTACHMENTS OF THE UNIT TO THE SUPPORTING STRUCTURE. THE SINKS & SEISMIC BRACKETS ARE SUPPLIED BY MAC MEDICAL. THRU BOLTS, STRUT PLATES & EXPANSION ANCHORS SHOWN ON PAGES 9-11 SHALL BE SUPPLIED & INSTALLED BY THE CONTRACTOR.



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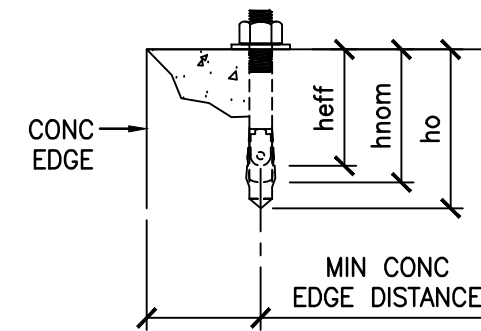
SHEET TITLE: TABLE OF CONTENTS				Rev	Description	Date	Job No: 21076	
							Date: 04/01/2022	
	MAC MEDICAL SINGLE THREE-BASIN SINK		CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833	TEL (916) 920-2020 www.cyseng.com				Page: 1 of 11

**GENERAL NOTES:**

1. THIS HCAI PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2019.
2. EQUIP ANCHORAGES SUCH AS EXPANSION ANCHORS, BOLTS & FITTINGS SHALL BE DESIGNED IN COMPLIANCE W/ THE FORCE LEVEL REQUIREMENTS OF THE 2019 CBC, TITLE 24, PART 2, VOLUME 2. LOAD COMBINATION FOR LOAD & RESISTANCE FACTOR DESIGN (LRFD) SHALL BE USED.
3. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SEOR) FOR A SITE SPECIFIC PROJECT TO VERIFY:
  - A. THE ADEQUACY OF THE (N) OR (E) STRUCTURE TO RESIST THE FORCES AND WT SPECIFIED FOR EA EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQ.
  - B. THAT THE (N) ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPGS. SEE TABLE 1 ON PG 2.
  - C. THAT THE (N) ANCHORS ARE LOCATED AT LEAST 18" AWAY FROM ADJ (E) ANCHORS OR THE SEOR SHALL EVALUATE THE ANCHORAGES FOR THE EQUIP IN THIS OPM FOR ADVERSE AFFECTS OF ADJ ANCHORS. THE SPACING SHOWN IN TABLE 1 ON PG 2, IS THE REQ MIN SPACING OF THE 1/2" DIA AB'S. THE REQ SPACING FROM ANCHORS OF OTHER DIA & EMBEDMENTS WILL VARY & SHALL BE EVALUATED BY THE SEOR.
  - D. THAT THE INSTALLATION IS IN CONFORMANCE W/ THE 2019 CBC AND W/ THE DTLs SHOWN IN THIS PRE-APPROVAL.
  - E. THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DTLs, & THE MATERIAL & GA OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFO SHOWN IN THIS PRE-APPROVAL.
  - F. THAT THE CONC SLAB TO WHICH THE EQUIP IS ANCHORED SHALL MEET THE REQUIREMENTS OF THE APPLICABLE ICC REPORT & THIS OPM.
4. EXPANSION ANCHORS INSTALLED IN NWC OR SLWC SHALL BE CARBON STEEL HILTI KWIK BOLT-TZ2 EXPANSION ANCHORS COMPLYING W/ ESR-4266 REVISED MARCH 2021.
  - A. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE W/ THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR AND THE PARAMETERS GIVEN IN THE TABLE ON PG 2.
  - B. JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITE TESTING IN ACCORDANCE W/ THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TEST 50% OF THE INSTALLED ANCHORS. THE TEST LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TORQUE IN THE ANCHOR SUCH AS CALIBRATED SPRING LOADING DEVICES OR CALIBRATED TORQUE WRENCH METHOD. REPORT OF TEST RESULTS SHALL BE SUBMITTED TO HCAI. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE INSPECTOR OF RECORD. IF ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. THE TEST SHALL BE PERFORMED 24 HOURS OR MORE AFTER INSTALLATION. TESTING MAY BE DONE PRIOR TO EQUIP INSTALLATION. ALSO REFER TO 2019 CBC 1910A.5 "TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE".
  - C. FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
    - **HYDRAULIC RAM METHOD:** APPLY & HOLD TEST LOAD FOR A MIN OF 15 SECONDS. THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD WHERE WASHERS ARE USED. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE OR BY A CONTINUOUS LOSS OF JACKING PRESSURE.
    - **TORQUE WRENCH METHOD:** THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: ONE-HALF (1/2) TURN OF THE NUT.

**GENERAL NOTES: (CONTINUED)**

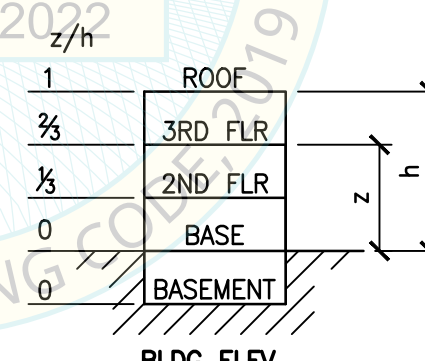
**4D. ANCHOR REQUIREMENTS:**



**TABLE 1**

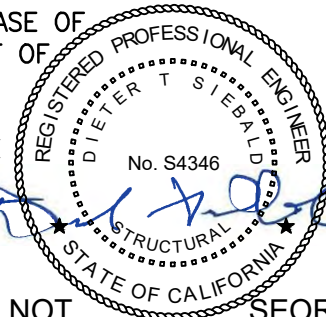
CONDITION OF ANCHORAGE	ANCHOR DIA (INCH) da	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) hef	HOLE DEPTH (INCH) ho	MIN CONC THICKNESS (INCH) h <sub>min</sub>	MIN CONC EDGE DISTANCE (INCH)	MIN AB SPACING (INCH)	TEST TORQUE (FT-LBS)
CASE 2	1/2	2 1/2	2	2 3/4	3/4	8	6	50
CASE 3	1/2	2 1/2	2	2 3/4	4	6	6	50

5. BOLTS THROUGH CONC ON MTL DECK:
  - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER SNUG TIGHT CONDITION IS ACHIEVED, UNO. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQ TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
  - B. THRU-BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16").
  - C. THRU-BOLTS IN CONC SHALL RECEIVE SPECIAL INSPECTION & TESTING IN ACCORDANCE W/ REQUIREMENTS FOR POST-INSTALLED ANCHORS. THRU-BOLTS W/ STL TO STL CONN IN TENSION DO NOT REQ TESTING.
6. THREE (3) CASES OF ATTACHMENT ARE SPECIFIED AND PRESENTED IN THIS PRE-APPROVAL:



- CASE 1:** ATTACHMENT DTLs LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG ( $z/h \leq 0.9$ ), THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 3/4" SLWC TOPPING OVER 3" DEEP MIN 20 GA MTL DECK ( $f'c = 3000$  PSI, MIN). FLR ANCHORS SHALL BE A36 STL ROD THRU CONC FILL & MTL DECK.
- CASE 2:** ATTACHMENT DTLs LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG ( $z/h \leq 0.8$ ), THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 3/4" SLWC TOPPING OVER 3" DEEP MIN 20 GA MTL DECK ( $f'c = 3000$  PSI, MIN). FLR ANCHORS SHALL BE CS HILTI KB-TZ2 EMBED INTO CONC.
- CASE 3:** ATTACHMENT DTLs LOCATED AT OR BLW THE BASE OF A BLDG ( $z/h = 0$ ). THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 4" NWC SLAB ( $f'c = 3000$  PSI, MIN).

7. FOR CASE 1, THIS PRE-APPROVAL MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE OF CALIFORNIA WHERE  $S_{DS}$  IS LESS THAN OR EQ TO 1.95. FOR CASE 2, THE MAX  $S_{DS}$  IS LIMITED TO 0.50. FOR CASE 3, THE MAX  $S_{DS}$  IS LESS THAN OR EQ TO 1.45.



NOT SEOR

SHEET TITLE: GENERAL NOTES

	MAC MEDICAL SINGLE THREE-BASIN SINK	CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com	Rev	Description	Date	Job No: 21076
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**DESIGN CRITERIA & SEISMIC DESIGN FORCES (LRFD)**

$F_p = 0.4 a_p S_{DS} W_p (1+2 z/h)$  ASCE 7-16 (13.3-1)  
 $F_p (MAX) = 1.6 S_{DS} I_p W_p$  ASCE 7-16 (13.3-2)  
 $F_p (MIN) = 0.3 S_{DS} I_p W_p$  ASCE 7-16 (13.3-3)  
 $E_v = F_v = \pm 0.2 S_{DS} W_p$  ASCE 7-16 (12.4-4)

SUPPORT & ATTACHMENT DESIGN IS PER 2019 CBC AT LRFD LEVEL FORCES PER TABLE 13.5-1 OF ASCE 7-16 SUPPLEMENT #1. "OTHER RIGID COMPONENTS - LOW DEFORMABILITY ELEMENTS & ATTACHMENTS"

$a_p = 1.0$   
 $R_p = 1.5$   
 $I_p = 1.5$   
 $\Omega_o = 1.5$   
 $W_p =$  AS NOTED ON PGS 4 TO 7

**TABLE 2 (LRFD)**

	$S_{DS}$	$z/h$	$F_p$ COEFFICIENT	$F_v$ COEFFICIENT
CASE 1	1.95	0.9	2.184 $W_p$	0.390 $W_p$
CASE 2	0.50	0.8	0.520 $W_p$	0.100 $W_p$
CASE 3	1.45	0	0.653 $W_p$	0.290 $W_p$

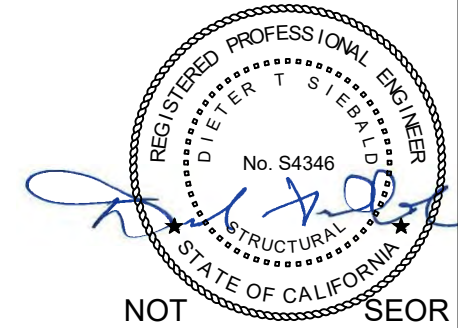
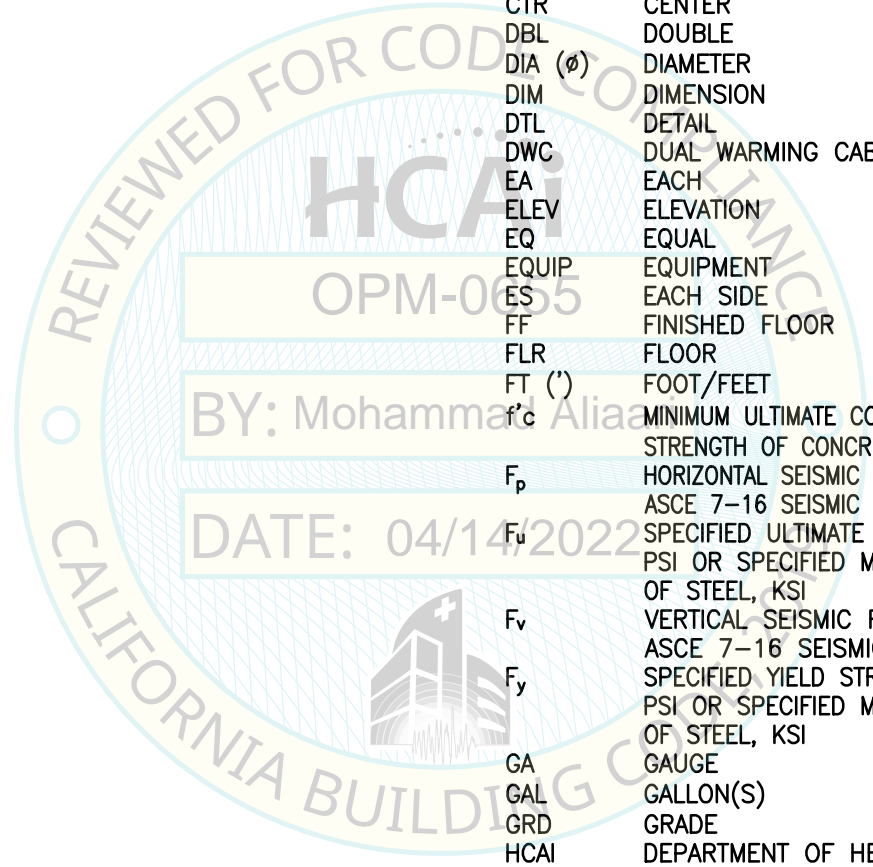
**LOAD COMBINATIONS**

- $(1.2 + 0.2 S_{DS}) D + 1.0E$
- $(0.9 - 0.2 S_{DS}) D + 1.0E$

**ABBREVIATIONS:**

@	AT
AB	ANCHOR BOLT
AI	AMERICAN INSTITUTE FOR STEEL CONSTRUCTION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
BLDG	BUILDING
BOTT	BOTTOM
BTW	BETWEEN
CBC	CALIFORNIA BUILDING CODE
CG	CENTER OF GRAVITY
CLR	CLEAR OR CLEARANCE
CLSE	CALIFORNIA LICENSED STRUCTURAL ENGINEER
CL	CENTERLINE
CONC	CONCRETE
CONN	CONNECTION
COORD	COORDINATE/COORDINATION
CTR	CENTER
DBL	DOUBLE
DIA ( $\phi$ )	DIAMETER
DIM	DIMENSION
DTL	DETAIL
DWC	DUAL WARMING CABINET
EA	EACH
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
FF	FINISHED FLOOR
FLR	FLOOR
FT (')	FOOT/FEET
$f'_c$	MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE
$F_p$	HORIZONTAL SEISMIC FORCE PER ASCE 7-16 SEISMIC FORCE REQUIREMENTS
$F_u$	SPECIFIED ULTIMATE STRENGTH OF REINFORCING, PSI OR SPECIFIED MINIMUM ULTIMATE STRESS OF STEEL, KSI
$F_v$	VERTICAL SEISMIC FORCE PER ASCE 7-16 SEISMIC FORCE REQUIREMENTS
$F_y$	SPECIFIED YIELD STRENGTH OF REINFORCING, PSI OR SPECIFIED MINIMUM YIELD STRESS OF STEEL, KSI
GA	GAUGE
GAL	GALLON(S)
GRD	GRADE
HCAI	DEPARTMENT OF HEALTH CARE ACCESS & INFORMATION
HT	HEIGHT
ICC	INTERNATIONAL CODE COUNCIL
IN (")	INCH
KSI	KIPS PER SQUARE INCH
L	LENGTH
LBS	POUNDS
LRFD	LOAD & RESISTANCE FACTOR DESIGN
MAX	MAXIMUM
MFR	MANUFACTURER

MIL	MILLIMETER
MIN	MINIMUM
MTL	METAL
NO.(#)	NUMBER
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OH	OPPOSITE HAND
OPM	HCAI PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION
PG	PAGE
PL	PLATE
PSI	POUNDS PER SQUARE INCH
R	RADIUS OF GYRATION
REQ	REQUIRED
SCHED	SCHEDULE
SDST	SELF-DRILLING SELF-TAPPING
SEOR	STRUCTURAL ENGINEER OF RECORD
SFRS	SEISMIC FORCE RESISTING SYSTEM
SIM	SIMILAR
SMS	SHEET METAL SCREW
SPCG	SPACING
SQ	SQUARE
SS	STAINLESS STEEL
STIFF	STIFFENER
STL	STEEL
STRUC	STRUCTURAL
SWC	SINGLE WARMING CABINET
T&B	TOP & BOTTOM
TEMP	TEMPORARY
THK	THICKNESS
THRD	THREAD OR THREADED
$T_{max}$	MAXIMUM TENSION DUE TO SEISMIC FORCE
T.O.	TOP OF
Tu	ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE
Vu	ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE
$V_{max}$	MAXIMUM SHEAR DUE TO SEISMIC FORCE
W/	WITH
$W_p$	COMPONENT SELF-WEIGHT
WT	WEIGHT



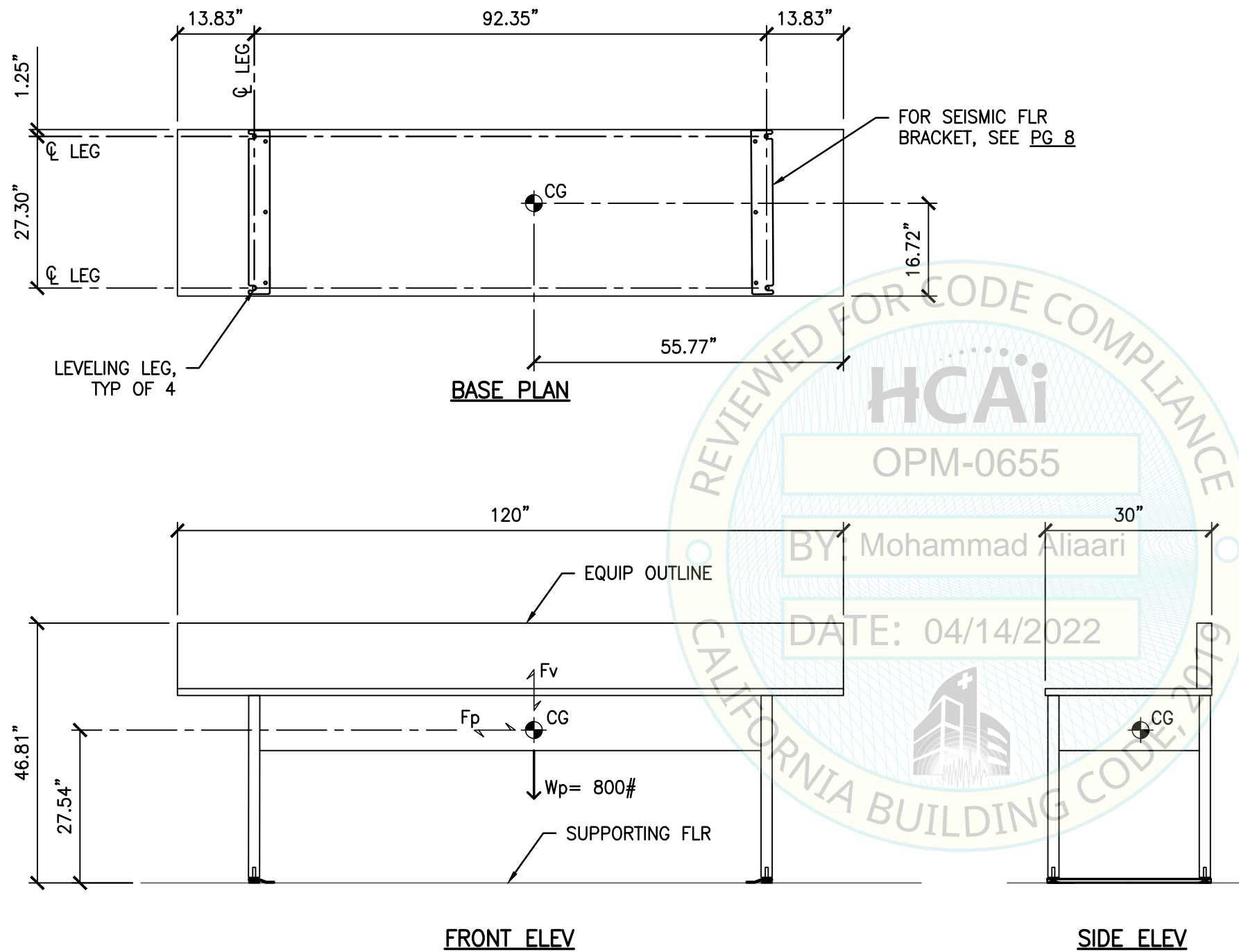
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SHEET TITLE: DESIGN CRITERIA & ABBREVIATIONS

	MAC MEDICAL SINGLE THREE-BASIN SINK	CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833	TEL (916) 920-2020 www.cyseng.com	Rev	Description	Date	Job No: 21076
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**ELEVATIONS & DIMENSIONS:**



**NOTES:**

1. SEOR FOR THE BLDG SHALL PROVIDE RIGID ( $q_p = 1.0$ ) SUPPORT STRUCTURE DESIGNED TO SUPPORT WTS & FORCES SHOWN, IN ADDITION TO ALL OTHER DWGS.
2. SEE GENERAL NOTES ON PGS 2-3.
3. EQUIP FRAME MATERIAL: 12 GA SS304.  $F_y = 31$  KSI MIN,  $F_u = 73$  KSI MIN.
4. LEG MATERIAL: 16 GA SS304.  $F_y = 31$  KSI MIN,  $F_u = 73$  KSI MIN.



NOT SEOR

SHEET TITLE: COMPONENT PLAN & ELEVATIONS  
LOWEST HEIGHT SINK

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MAC MEDICAL  
SINGLE THREE-BASIN SINK



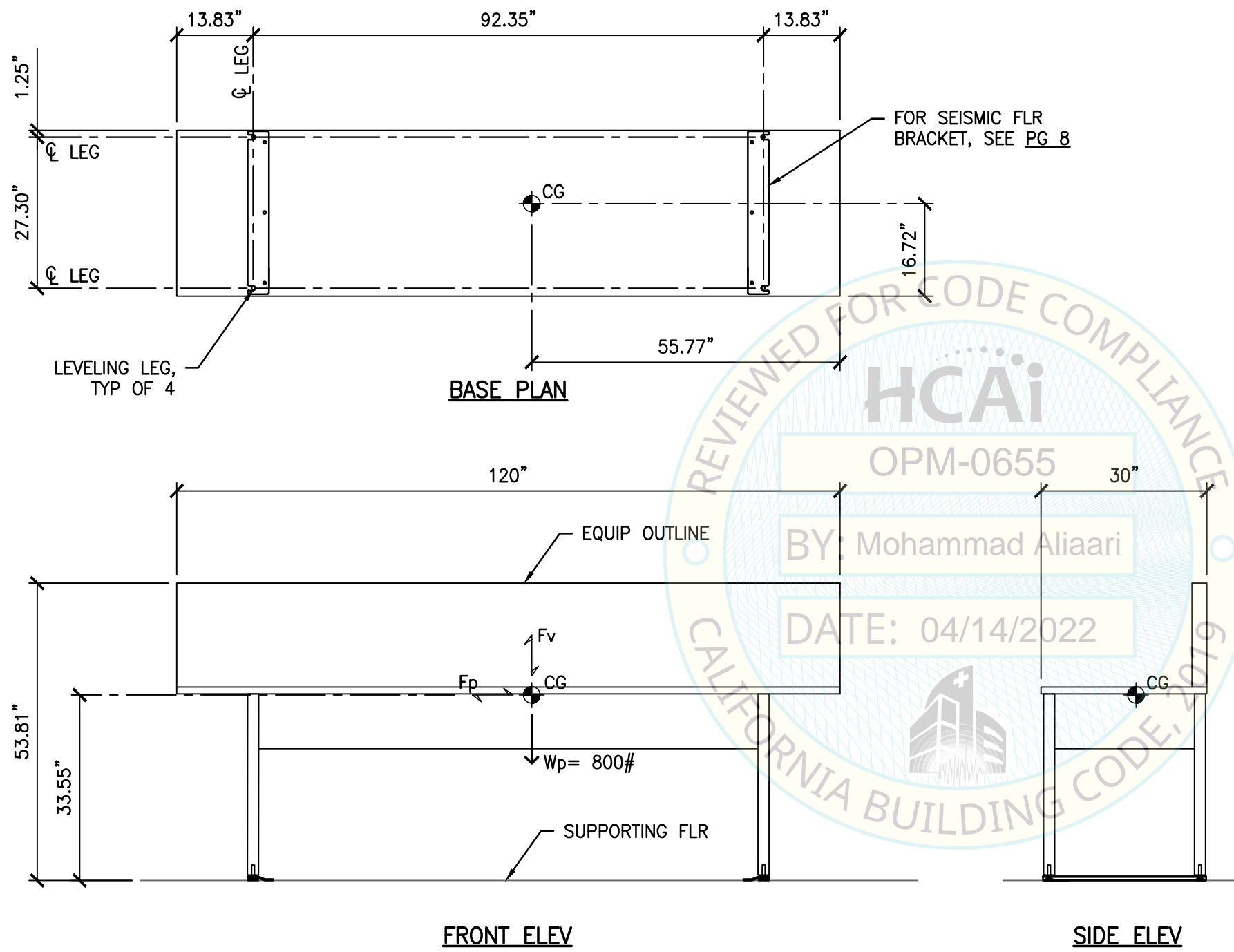
**CYS STRUCTURAL ENGINEERS, INC.**

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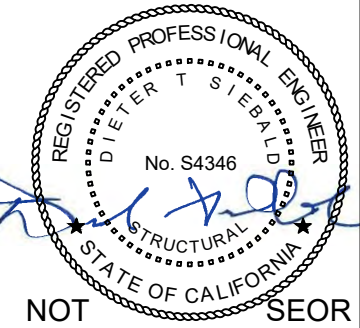
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SHEET TITLE: COMPONENT PLAN & ELEVATIONS  
MAX HEIGHT SINK

**mac MEDICAL**

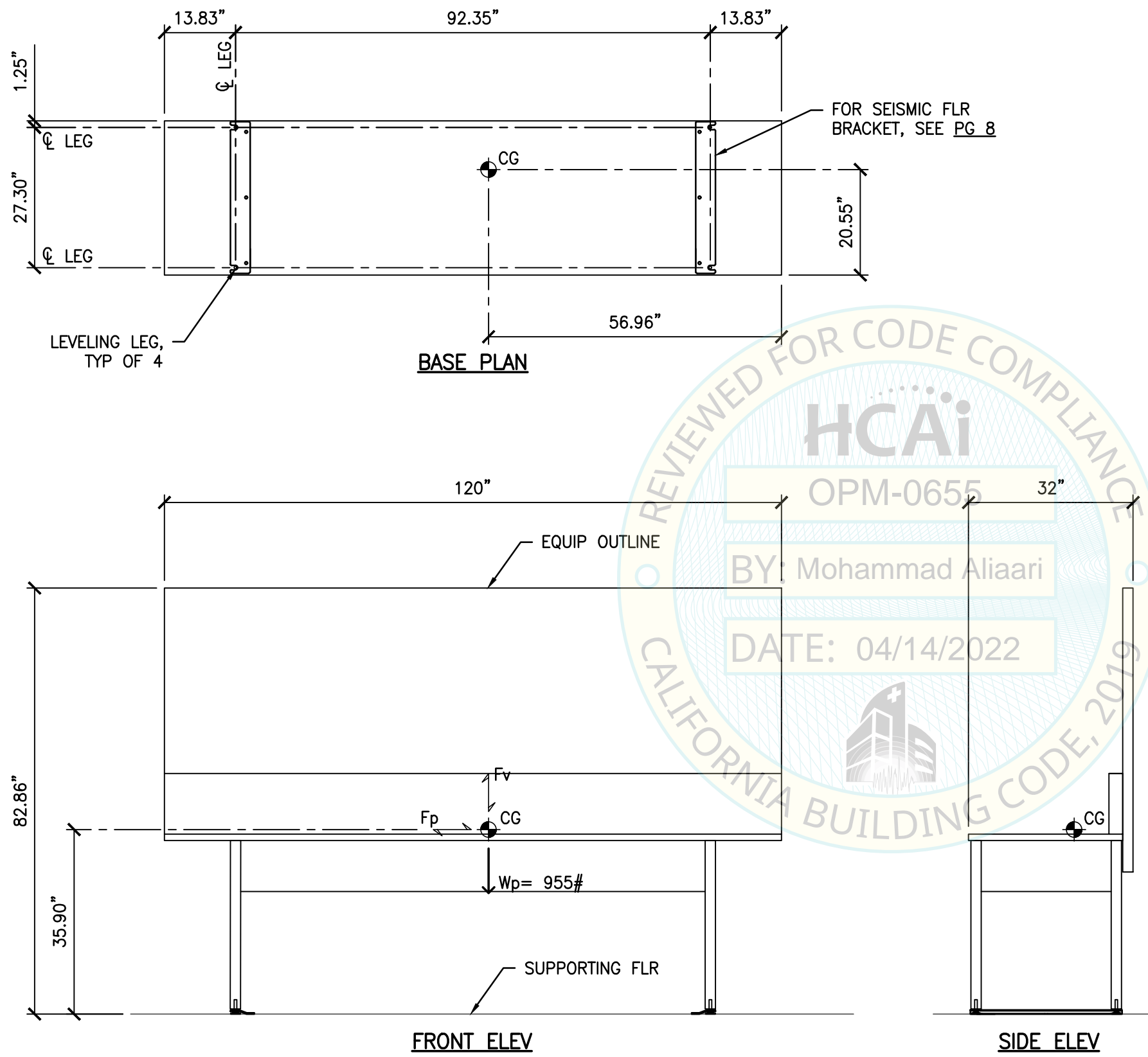
MAC MEDICAL  
SINGLE THREE-BASIN SINK

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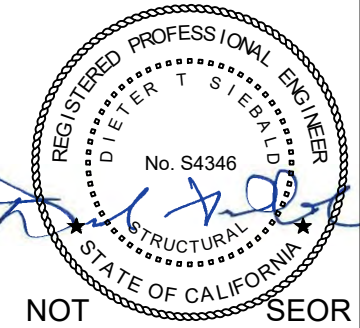
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NOT SEOR

SHEET TITLE: COMPONENT PLAN & ELEVATIONS  
 LOWEST HEIGHT SINK W/ BACKFRAME

**mac MEDICAL**

MAC MEDICAL  
 SINGLE THREE-BASIN SINK

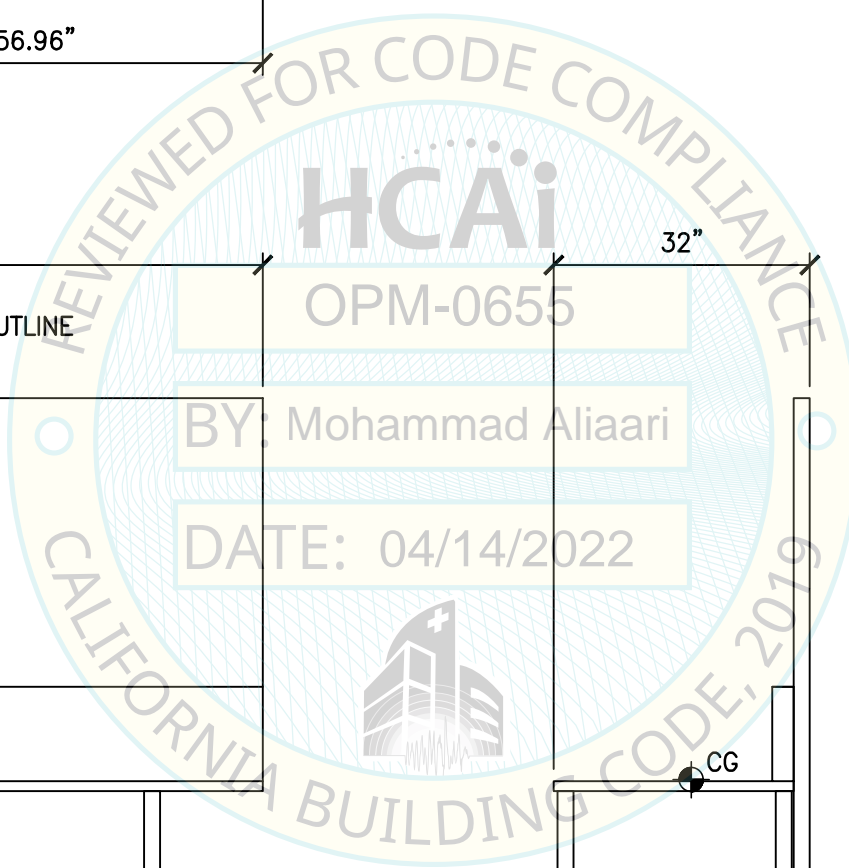
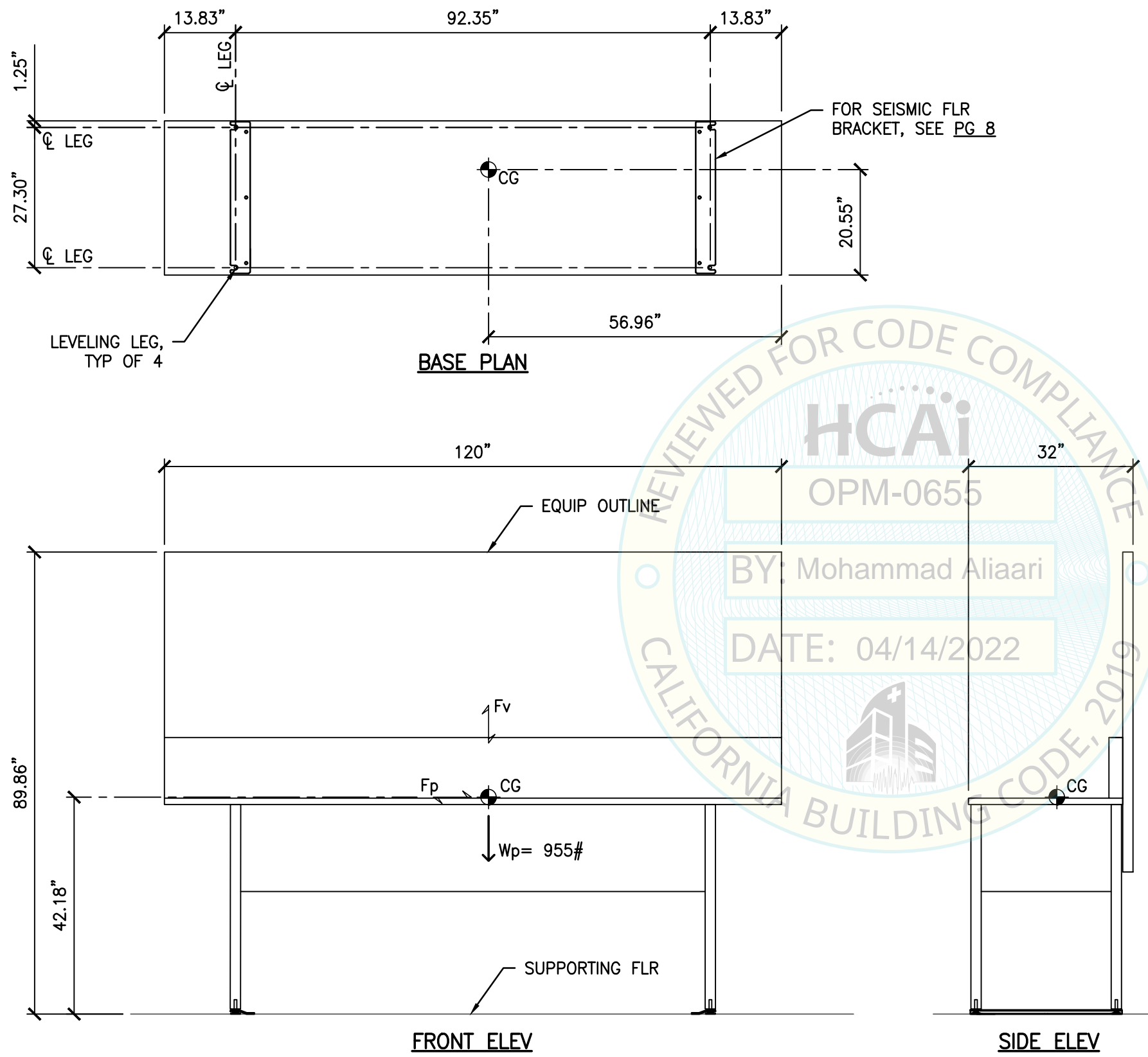
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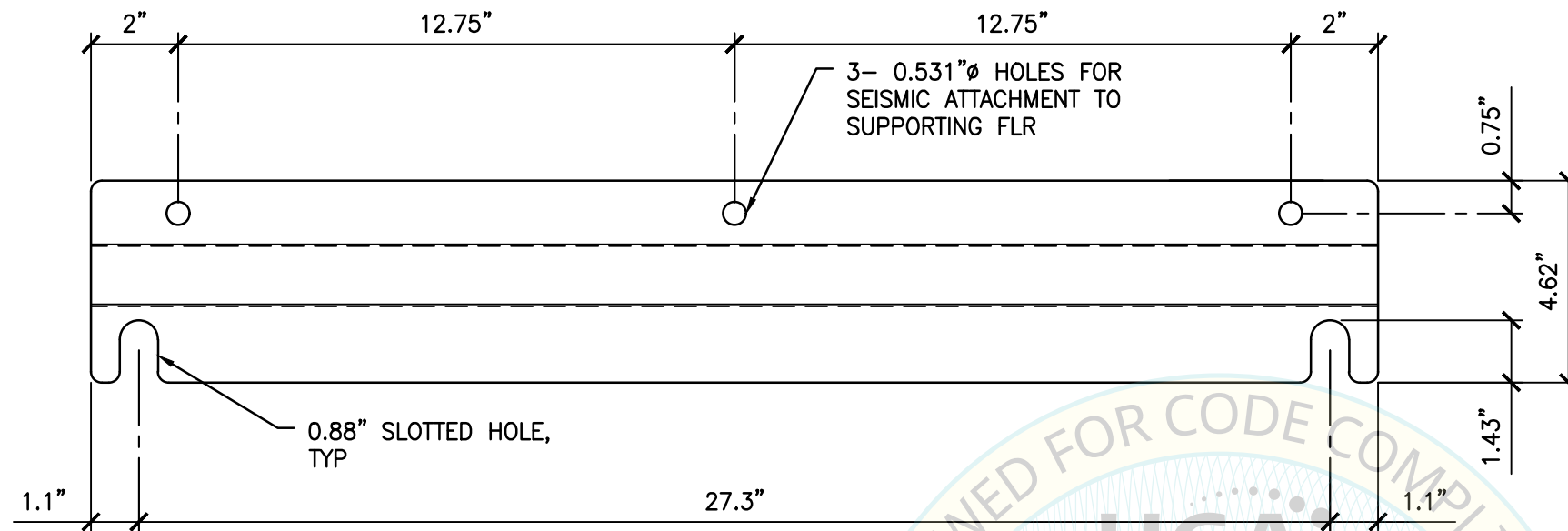
SHEET TITLE: COMPONENT PLAN 7 ELEVATIONS  
MAX HEIGHT SINK W/ BACKFRAME

**mac MEDICAL**  
MAC MEDICAL  
SINGLE THREE-BASIN SINK

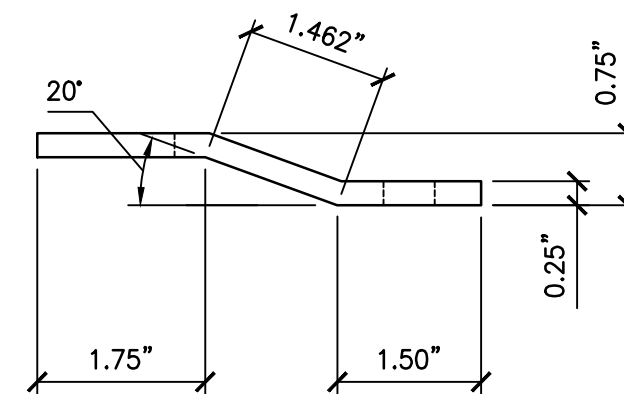
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SACRAMENTO, CA 95833  
TEL (916) 920-2020  
www.cyseng.com

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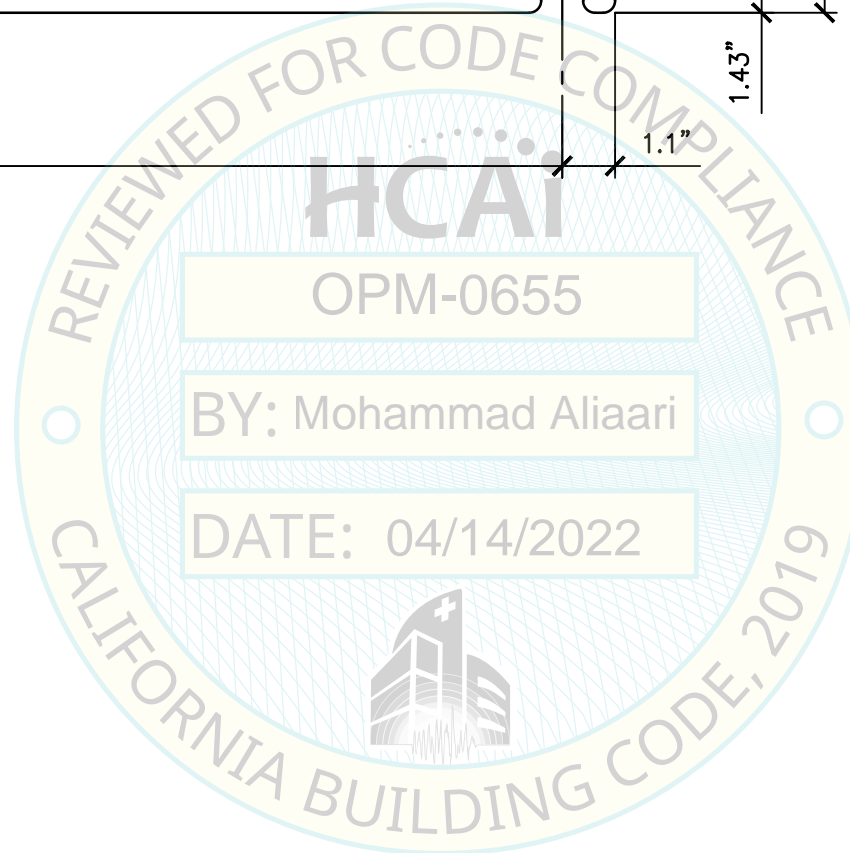
**SEISMIC BRACKET DETAIL:**



**PLAN VIEW**



**ELEV VIEW**



**SEISMIC BRACKET NOTES:**

- BRACKETS ARE MANUFACTURED & FURNISHED BY MAC MEDICAL FROM SS304 SHEET STL (ASTM A666, TYPE 304, ANNEALED) (F<sub>y</sub>= 31 KSI MIN, F<sub>u</sub>= 73 KSI MIN) BRACKET THICKNESS IS 1/4" MIN.
- FOR CASE 1 & CASE 2 ATTACHMENT TO FLR, SEE PGS 9-10. FOR CASE 3 ATTACHMENT, SEE PG 11.
- BRACKET & SLOT DIRECTION SHALL BE FOLLOWED AS SHOWN ON SYSTEM CONFIGURATION PLANS.



NOT SEOR

SHEET TITLE: SEISMIC BRACKET DETAIL

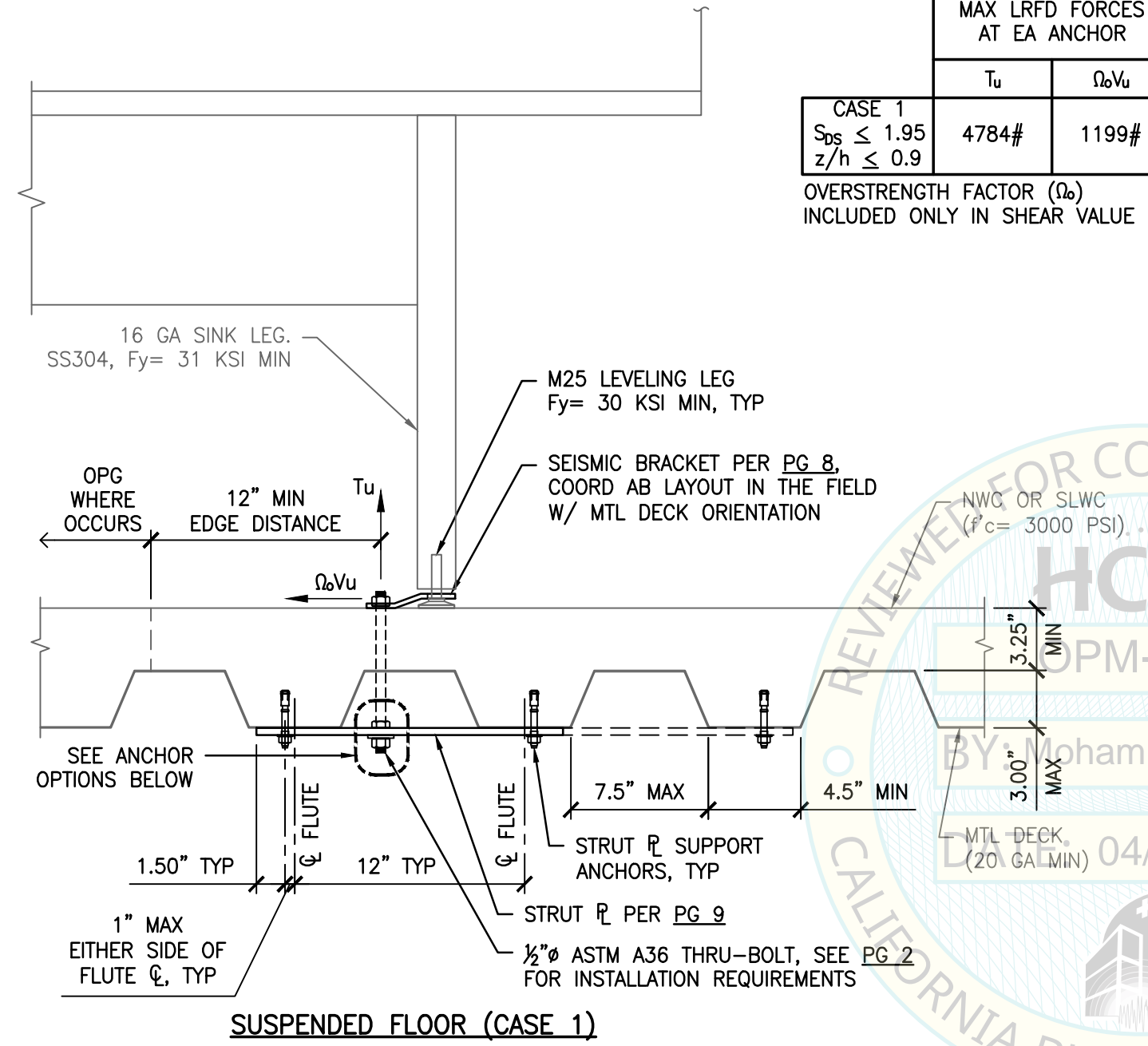
<p>MAC MEDICAL SINGLE THREE-BASIN SINK</p>	<p>CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com</p>	Rev	Description	Date	Job No: 21076
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L:\Jobs21\21076 MAC Medical - Processing Sinks\ACAD\STRU\S1.dwg Time:Apr08,2022-09:16am Login:FalkR DimScale:1 LTScale:6

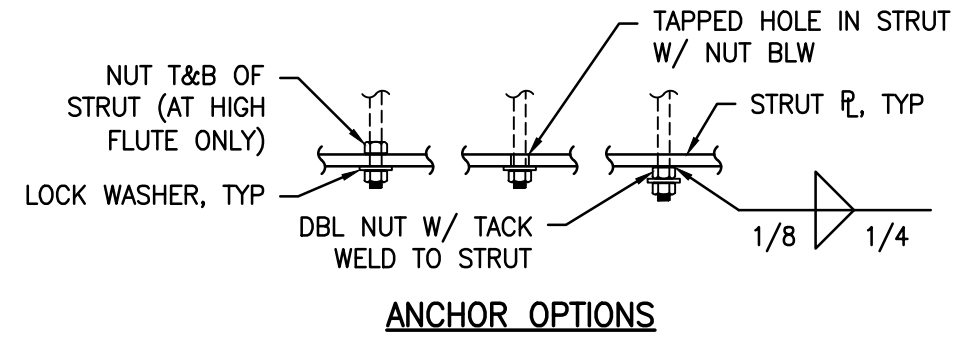
L:\Jobs21\21076 MAC Medical - Processing Sinks\ACAD\STRU\S1.dwg Time:Apr08,2022-09:16am Login:FalkR DimScale:1 LTScale:6

	MAX LRFD FORCES AT EA ANCHOR	
	$T_u$	$\Omega_o V_u$
CASE 1 $S_{Ds} \leq 1.95$ $z/h \leq 0.9$	4784#	1199#

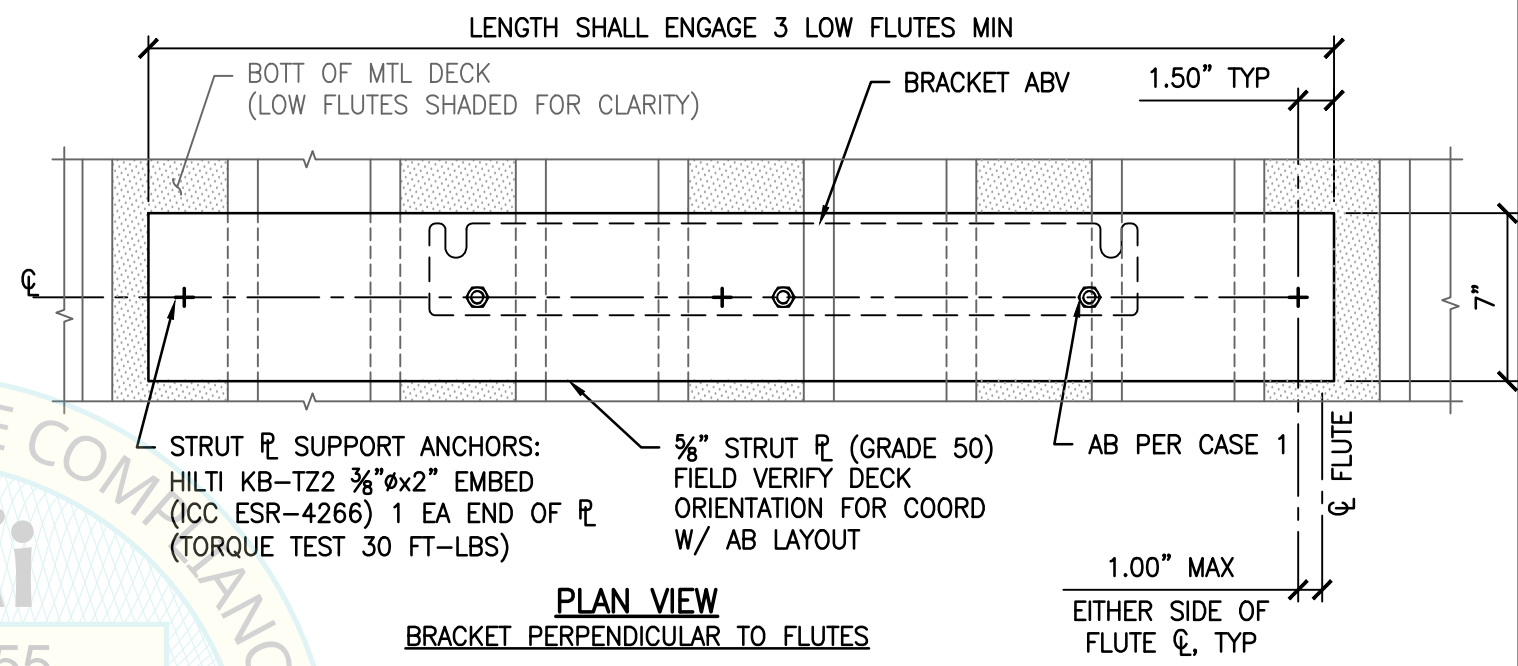
OVERSTRENGTH FACTOR ( $\Omega_o$ ) INCLUDED ONLY IN SHEAR VALUE



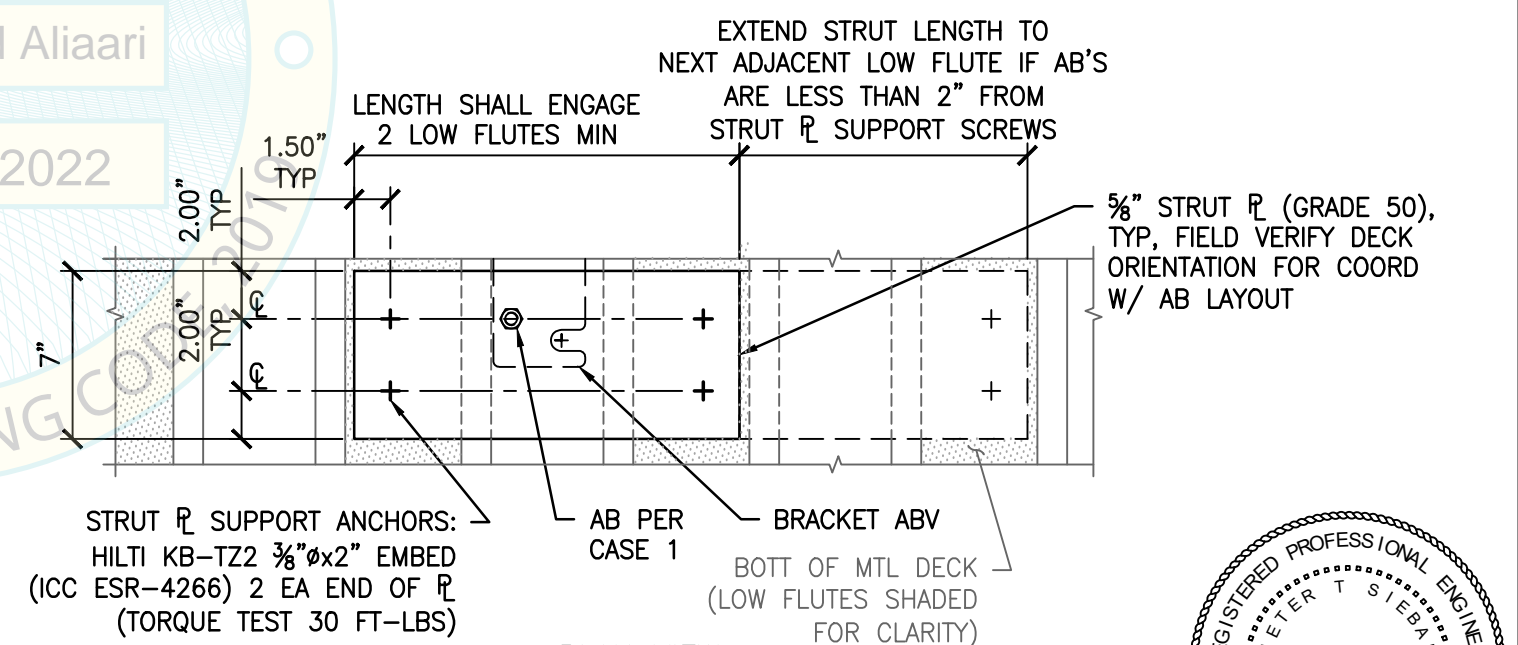
**SUSPENDED FLOOR (CASE 1)**



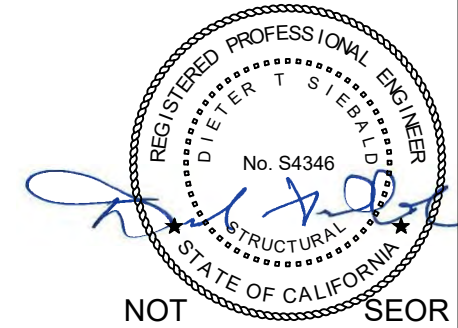
**ANCHOR OPTIONS**



**PLAN VIEW  
BRACKET PERPENDICULAR TO FLUTES**



**PLAN VIEW  
BRACKET PARALLEL TO FLUTES**



SHEET TITLE: ATTACHMENT DETAIL TO CONCRETE FILL OVER MDETAL DECK (CASE 1)

MAC MEDICAL  
SINGLE THREE-BASIN SINK

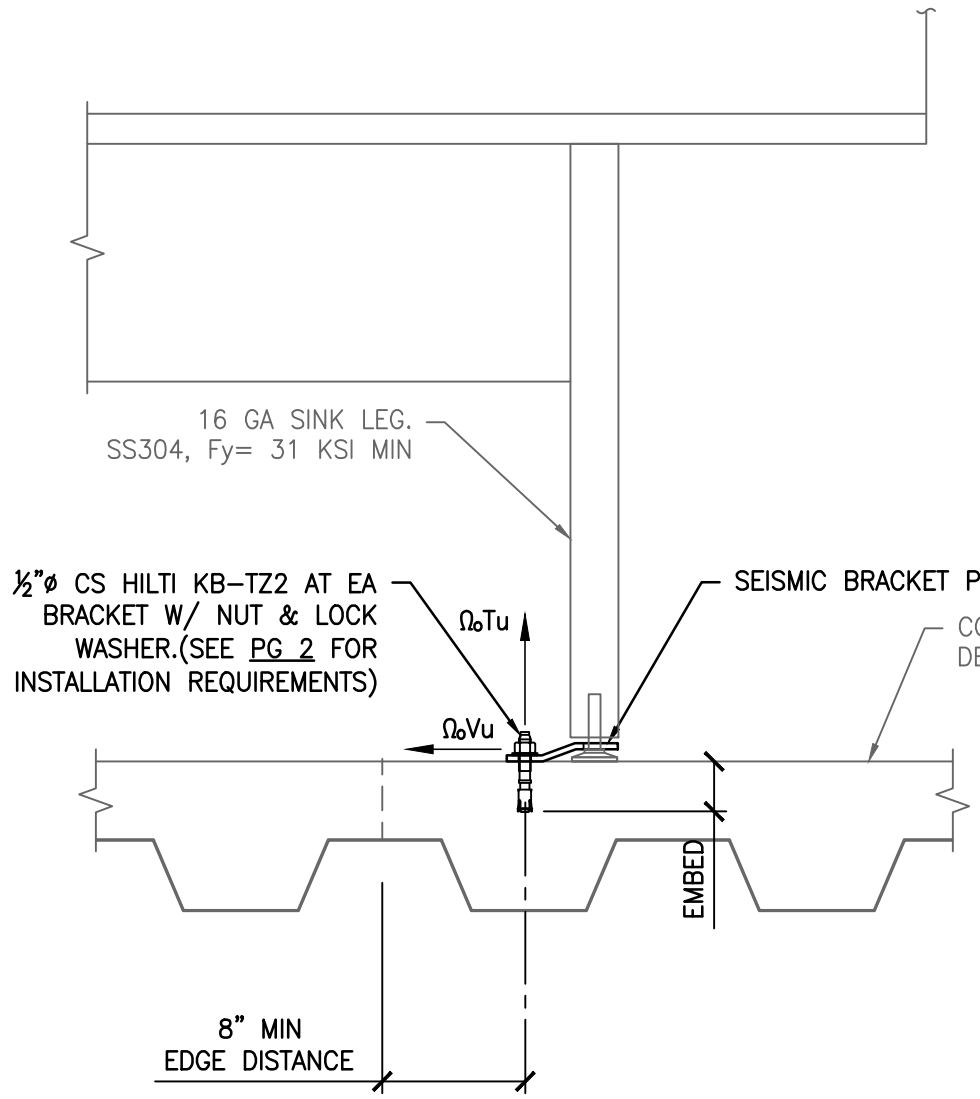
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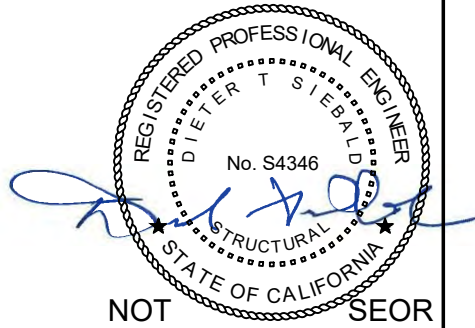
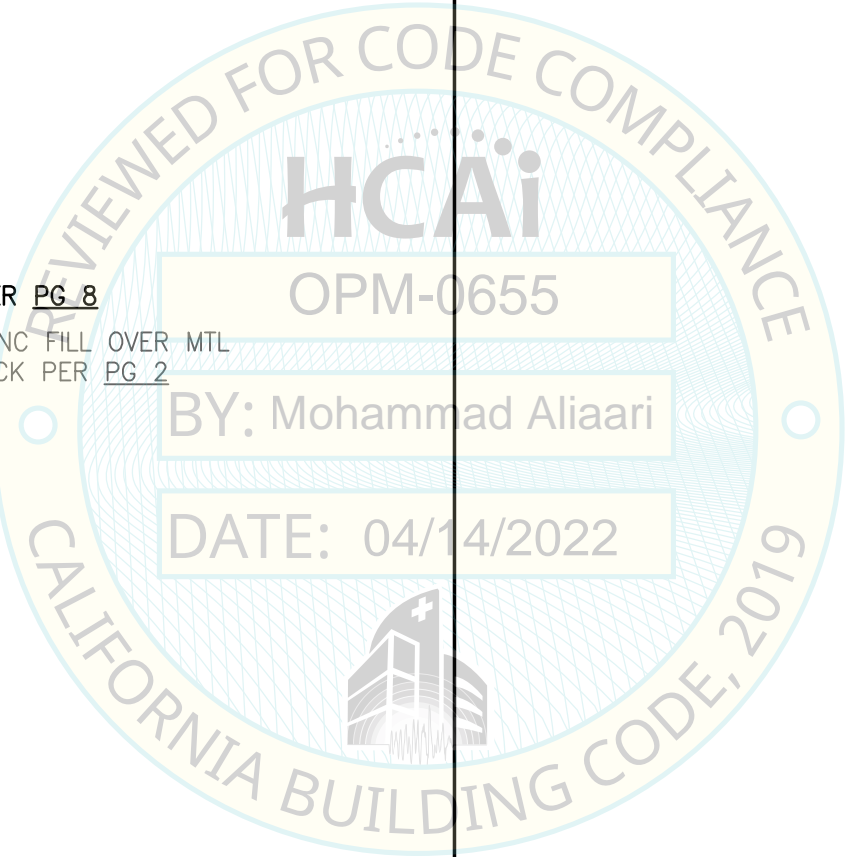
L:\Jobs21\21076 MAC Medical - Processing Sinks\ACAD\STRU\S1.dwg Time:Apr08,2022-09:16am Login:FalkR DimScale:1 LITScale:6

	MAX LRFD FORCES AT EA ANCHOR	
	$\Omega_o T_u$	$\Omega_o V_u$
CASE 2 $S_{DS} < 0.5$ $z/h \leq 0.8$	826#	286#

OVERSTRENGTH FACTOR ( $\Omega_o$ )  
INCLUDED WHERE NOTED



CASE 2



NOT SEOR

SHEET TITLE: ATTACHMENT DETAIL  
TO CONCRETE FILL OVER MDETAL DECK (CASE 2)

**mac MEDICAL**  
MAC MEDICAL  
SINGLE THREE-BASIN SINK

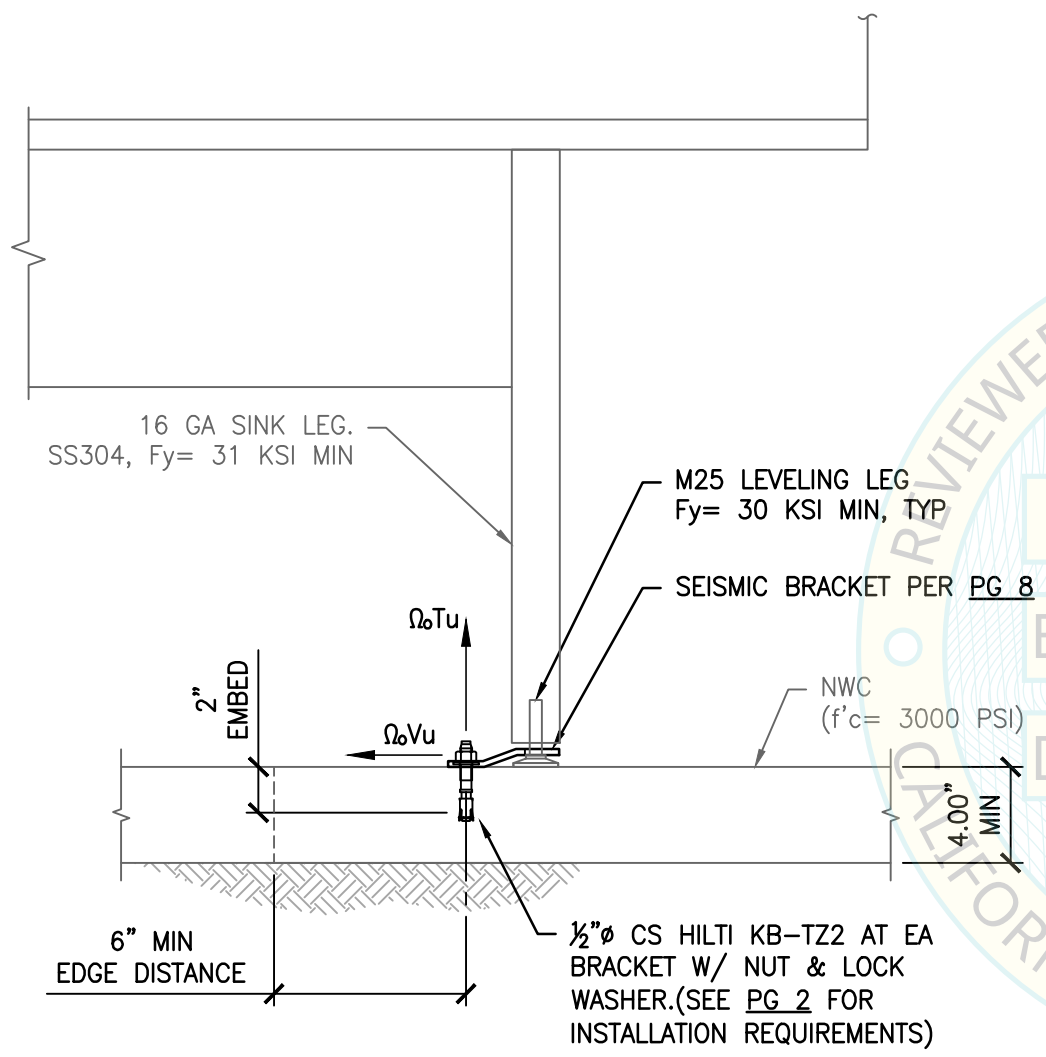
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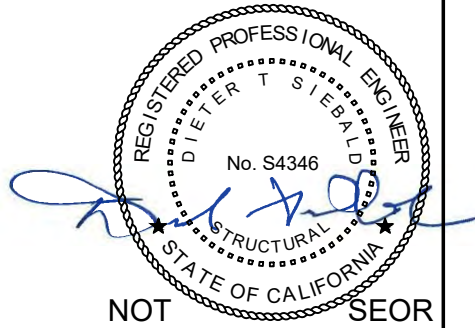
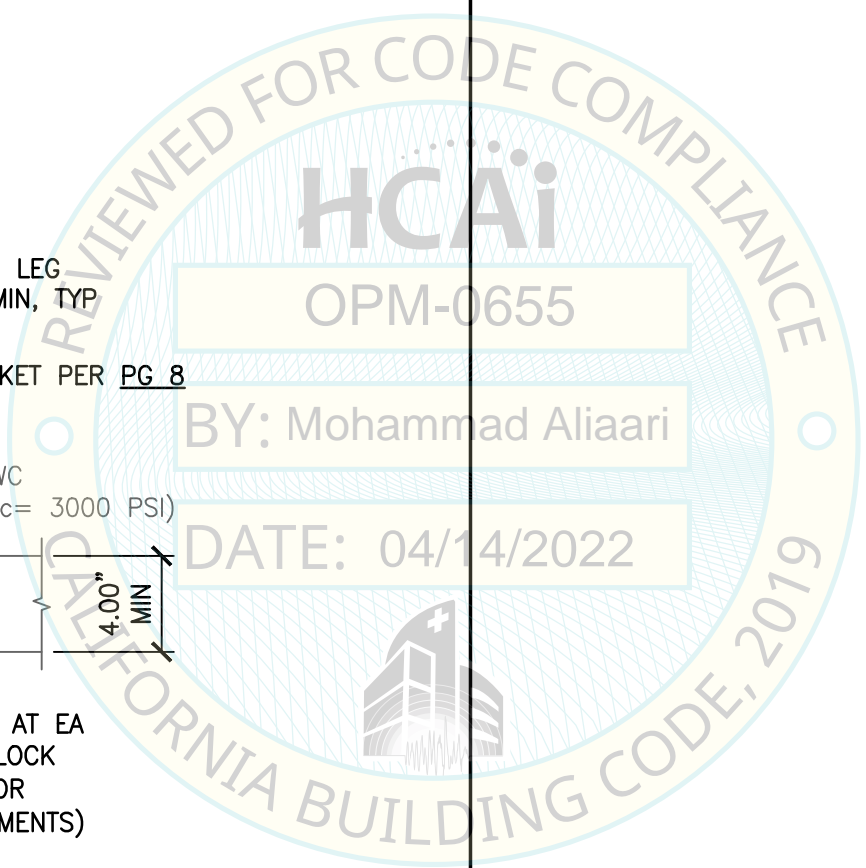
L:\Jobs21\21076 MAC Medical - Processing Sinks\ACAD\STRU\S1.dwg Time:Apr08,2022-09:16am Login:FalkR DimScale:1 LTScale:6

	MAX LRFD FORCES AT EA ANCHOR	
	$\Omega_o T_u$	$\Omega_o V_u$
CASE 3 $S_{ps} < 1.45$ $z/h \leq 0$	1551#	358#

OVERSTRENGTH FACTOR ( $\Omega_o$ )  
INCLUDED WHERE NOTED



**SLAB ON GRADE  
CASE 3**



NOT SEOR

SHEET TITLE: ATTACHMENT DETAIL  
TO CONCRETE SLAB ON GRADE (CASE 3)

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**mac MEDICAL**  
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