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

OFFICE USE ONLY

APPLICATION #: OPM-0136

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: ☐ New ☒ Renewal/Update

Manufacturer Information

Manufacturer: BD Integrated Diagnostics Solutions

Manufacturer's Technical Representative: Mathew Mellarkey

Mailing Address: 7 Loveton Circle, Sparks, MD 21152

Telephone: (410) 316-4810 Email: Mathew.Mellarkey@bd.com

Product Information

Product Name: TOTALYS MULTIPROCESSOR

Product Type: Cytology Sampler

Product Model Number: Totalys Multiprocessor

General Description: Analysis samples for cervical cancer

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

Registered Design Professonal 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: 5/18/2022

Name: William Staehlin Title: Senior Structural Engineer

Condition of Approval (if applicable):

TABLE OF CONTENTS
OPM–0136

NOTES:

1. THESE DRAWINGS ARE PREPARED FOR BD INTEGRATED DIAGNOSTIC SOLUTIONS, SPARKS, MARYLAND.
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 PROGRAMS WEBSITE.
3. THIS PRE–APPROVAL COVERS THE SUPPORTS & ATTACHMENTS OF THE EQUIPMENT TO THE SUPPORTING STRUCTURE. THE EQUIPMENT, SEISMIC BRACKETS & ATTACHMENT HARDWARE ARE SUPPLIED BY THE MANUFACTURER. THE EXPANSION ANCHORS, THRU–BOLTS & STRUT PLATES SHOWN IN THIS OPM SHALL BE SUPPLIED & INSTALLED BY THE CONTRACTOR.

REGISTERED PROFESSIONAL ENGINEER
DIETER T SIEBALD
No. S4346
STRUCTURAL
STATE OF CALIFORNIA

SHEET TITLE: TABLE OF CONTENTS

CYS STRUCTURAL ENGINEERS, INC.
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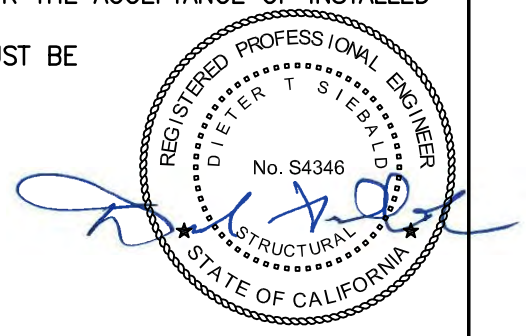
www.cyseng.com

Job No:	22018.02
Date:	05/17/2022
Page:	1 of 13

GENERAL NOTES:

1. THIS HCAI PRE–APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE W/ THIS OPM SHALL BE BASED ON THE CBC 2019.
2. IT IS THE RESPONSIBILITY OF THE SEOR FOR A SITE SPECIFIC PROJECT TO VERIFY:
   A. THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES & WT SPECIFIED FOR EA EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQ.
   B. THAT THE FLR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPGS.
   C. THAT THE FLR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS. THE SPCG SHOWN IN THE TEST TORQUE TABLE BLW IS THE REQ MIN SPCG OF THE GIVEN DIA ANCHORS. THE REQ SPCG FROM ANCHORS OF OTHER DIAMETERS & EMBEDMENTS MAY VARY & SHALL BE EVALUATED BY THE SEOR.
   D. THAT THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2019 & W/ THE DETAILS SHOWN IN THIS PRE–APPROVAL.
   E. THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, & THE MATERIAL & GAUGE OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFO SHOWN ON THE PRE–APPROVAL DOCUMENTS.
   F. THAT THE PROJECT SPECIFIC VALUES OF S_{DS} & z/h RESULT IN SEISMIC FORCES THAT DO NOT EXCEED THE VALUES IN THE DESIGN CRITERIA.
3. EXPANSION ANCHORS INSTALLED IN NWC OR SLWC SHALL BE CARBON STL HILTI KB–TZ OR HILTI KB–TZ2 EXPANSION ANCHORS AS NOTED COMPLYING W/ ESR–1917 REISSUED MAY 2021 OR ESR–4266 REVISED DECEMBER 17, 2021 RESPECTIVELY.
   A. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE W/ THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR & THE PARAMETERS GIVEN IN THE TABLE BLW.
   B. JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOBSITE TESTING IN ACCORDANCE W/ THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TORQUE TEST 50% OF THE INSTALLED ANCHORS. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE SPECIAL INSPECTOR & REPORT OF TEST RESULTS SHALL BE SUBMITTED TO HCAI. 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, HOWEVER NUT SHALL BE RETORQUED TO INSTALLATION TORQUE AFTER EQUIP INSTALL. ALSO REFER TO CBC 1910A.5 "TESTS FOR POST–INSTALLED ANCHORS IN CONCRETE". REPORT OF TEST RESULTS SHALL BE SUBMITTED TO HCAI. TESTING SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY EMPLOYED BY THE FACILITY OWNER. TEST REPORTS SHALL BE SUBMITTED TO THE IOR, OWNER & THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE. (CAC 7–149)
   C. FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
      - TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
        WEDGE TYPE: ONE–HALF (½) TURN OF THE NUT.
   D. AVOID DAMAGING (E) STL REINF IN CONC SLAB WHEN INSTALLING CONC EXPANSION ANCHORS.
   E. PROVIDE FOR FULL THRD ENGAGEMENT OF NUT & WASHER.



SHEET TITLE: GENERAL NOTES

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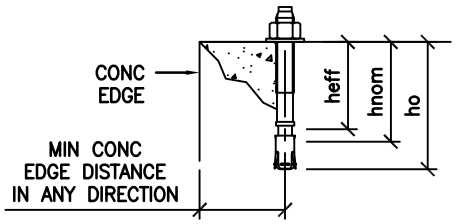
Job No:	22018.02
Date:	05/17/2022
Page:	2 of 13

GENERAL NOTES CONTINUED:

3F. EXPANSION ANCHOR TABLE FOR HILTI KB–TZ & KB–TZ2 ANCHORS:



CONDITION OF ANCHORAGE	ANCHOR DIA (INCH)	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) hef	HOLE DEPTH (INCH) ho	MIN CONC THK (INCH) h	MIN CONC EDGE DISTANCE (INCH)	MIN ANCHOR SPCG (INCH)	TEST TORQUE (FT–LBS)
CASE 1 STRUT PL'S	3/8	1 13/16" (1 7/8")	1 1/2	2	3 1/4	6	5	25 (30)
CASE 2	1/2	2 3/8" (2 1/2")	2	2 5/8 (2 3/4)	4	12	4 1/4	40 (50)

NOTES:

1. VALUES IN PARENTHESES ARE FOR HILTI KB–TZ2.
2. VALUES ARE THE SAME FOR BOTH ANCHORS WHERE ONLY ONE NUMBER IS REPORTED.

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

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SHEET TITLE: GENERAL NOTES (CONTINUED)

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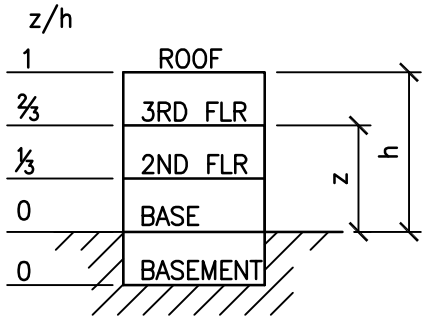
Job No:	22018.02
Date:	05/17/2022
Page:	3 of 13

GENERAL NOTES CONTINUED:

5. TWO (2) CASES OF ANCHORAGE ARE SPECIFIED AND PRESENTED IN THIS PRE-APPROVAL:



BUILDING ELEVATION

CASE 1: ANCHORAGE DETAILS LOCATED AT UPPER FLOORS ABOVE THE BASE OF A BUILDING (z/h<=1.0), IT IS ASSUMED THAT THE FLOORS ARE BUILT OF A MIN 3¼" SLWC TOPPING OVER METAL DECK (f'c = 3000 PSI, MIN). NOTE THAT CASE 1 MAY ALSO OCCUR AT GRADE OR BLW.

CASE 2: ANCHORAGE DETAILS LOCATED AT OR BELOW THE BASE OF A BUILDING (z/h=0). THE FLOORS ARE ASSUMED TO BE BUILT OF A MINIMUM 4" NWC SLAB. (f'c = 3000 PSI, MIN).

6. THIS PRE-APPROVAL MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE OF CALIFORNIA. WHERE S_{DS} LESS THAN OR EQUAL TO 2.50.

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SHEET TITLE: GENERAL NOTES (CONTINUED)

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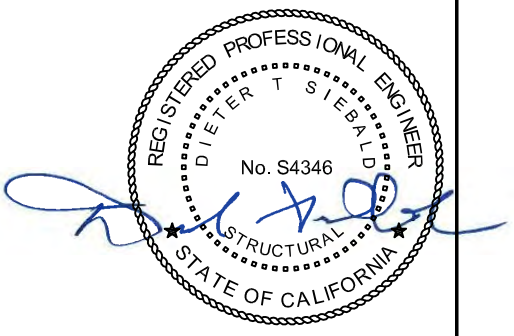
Job No:	22018.02
Date:	05/17/2022
Page:	4 of 13

ABBREVIATIONS:

AB	ANCHOR BOLT
ABV	ABOVE
ADJ	ADJACENT
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWS	AMERICAN WELDING SOCIETY
BD	BECTON, DICKINSON AND COMPANY
BLW	BELOW
BOTT	BOTTOM
CBC	CALIFORNIA BUILDING CODE
CG	CENTER OF GRAVITY
℄	CENTERLINE
CJP	COMPLETE JOINT PENETRATION
C_{max}	MAXIMUM COMPRESSION DUE TO SEISMIC FORCE
CONC	CONCRETE
COORD	COORDINATE
DBL	DOUBLE
DIA (ø)	DIAMETER
(E)	EXISTING CONDITION
EA	EACH
ELEV	ELEVATION
EQUIP	EQUIPMENT
ES	EACH SIDE
FF	FINISH FLOOR
FLR	FLOOR
Fp	HORIZONTAL SEISMIC FORCE PER ASCE 7-16 SEISMIC FORCE REQUIREMENTS
FT (')	FOOT/FEET
Fv	VERTICAL SEISMIC FORCE PER ASCE 7-16 SEISMIC FORCE REQUIREMENTS
Fy	SPECIFIED YIELD STRENGTH OF REINFORCING, PSI OR SPECIFIED MINIMUM YIELD STRESS OF STEEL, KSI
GA	GAUGE
HCAI	CALIFORNIA DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
HT	HEIGHT
IN (")	INCH
KSI	KIPS PER SQUARE INCH
LRFD	LOAD & RESISTANCE FACTOR DESIGN
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
(N)	NEW
NO. (#)	NUMBER OR POUNDS
NWC	NORMAL WEIGHT CONCRETE
OD	OUTSIDE DIAMETER
OPG	OPENING
PG(S)	PAGE(S)
PL	PLATE
PSI	POUNDS PER SQUARE INCH
R	RADIUS
REQ	REQUIRED
SEOR	STRUCTURAL ENGINEER OF RECORD
SLWC	SAND LIGHT WEIGHT CONCRETE
SOG	SLAB ON GRADE
SQ	SQUARE
T_{max}	MAXIMUM TENSION DUE TO SEISMIC FORCE
Tu	ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE
THRD	THREAD OR THREADED
TOC	TOP OF CONCRETE
TYP	TYPICAL
T&B	TOP & BOTTOM
Vu	ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE
V_{max}	MAXIMUM SHEAR DUE TO SEISMIC FORCE
W/	WITH
Wp	OPERATING WEIGHT



SHEET TITLE: ABBREVIATIONS

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Job No:	22018.02
Date:	05/17/2022
Page:	5 of 13

DESIGN CRITERIA:

1. SUPPORT & ATTACHMENT DESIGN IS PER 2019 CBC AT LRFD LEVEL FORCES.

   OTHER MECHANICAL OR ELECTRICAL COMPONENTS PER TABLE 13.6-1 OF ASCE 7-16:

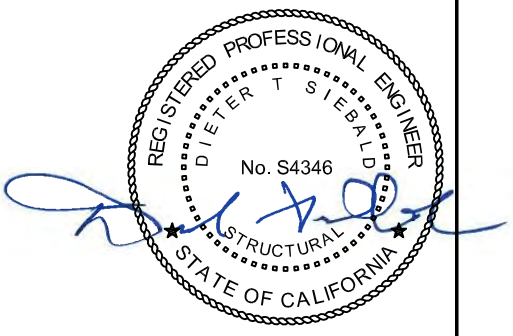
   $a_p = 1.0$ $R_p = 1.5$ $I_p = 1.5$ $\Omega_0 = 1.5$ (FOR CONC ANCHORS ONLY)

   UPPER FLRS ABV THE BASE OF BLDG
   CASE 1: $S_{DS} \leq 2.50$ $F_p = 3.00\ W_p$ $z/h \leq 1.0$

   FLRS AT OR BLW THE BASE OF BLDG
   CASE 2: $S_{DS} \leq 2.5$ $F_p = 1.125\ W_p$ $z/h = 0$

   LOAD COMBINATIONS
   $(0.9 - 0.2\ S_{DS})\ D - \Omega_0\ F_p$ (FOR MAX TENSION)
   $(1.2 + 0.2\ S_{DS})\ D + \Omega_0\ F_p$ (FOR MAX COMPRESSION)

2. THIS PRE-APPROVAL MAY BE USED ONLY AT GEOGRAPHICAL LOCATIONS IN THE STATE OF CALIFORNIA WHERE S_{DS} & z/h COMPLY W/ VALUES SHOWN ABOVE. OTHER COMBINATIONS OF S_{DS} & z/h ARE ACCEPTABLE PROVIDED THAT SEOR DEMONSTRATES THAT THE CORRESPONDING Fp VALUE IS LESS THAN OR EQ TO VALUE SHOWN ABV.



SHEET TITLE: DESIGN CRITERIA

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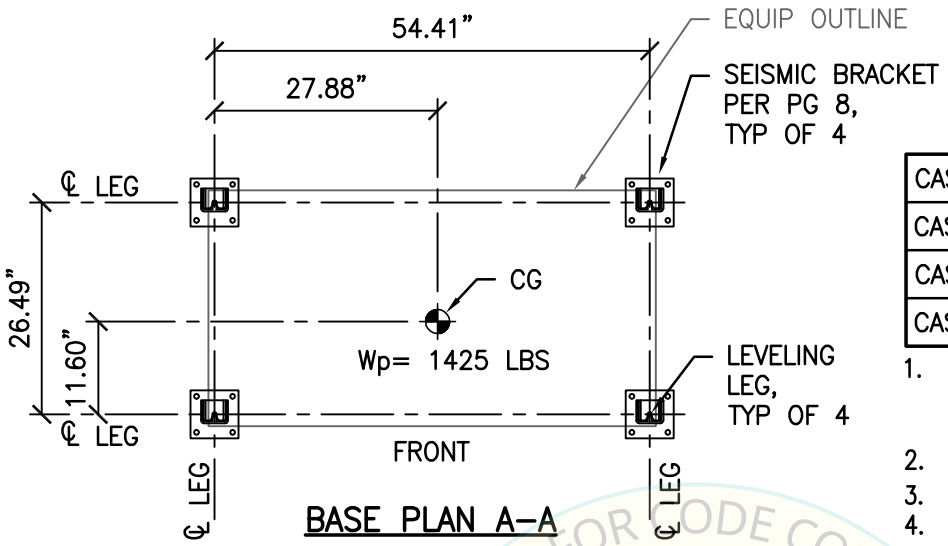
Job No:	22018.02
Date:	05/17/2022
Page:	6 of 13

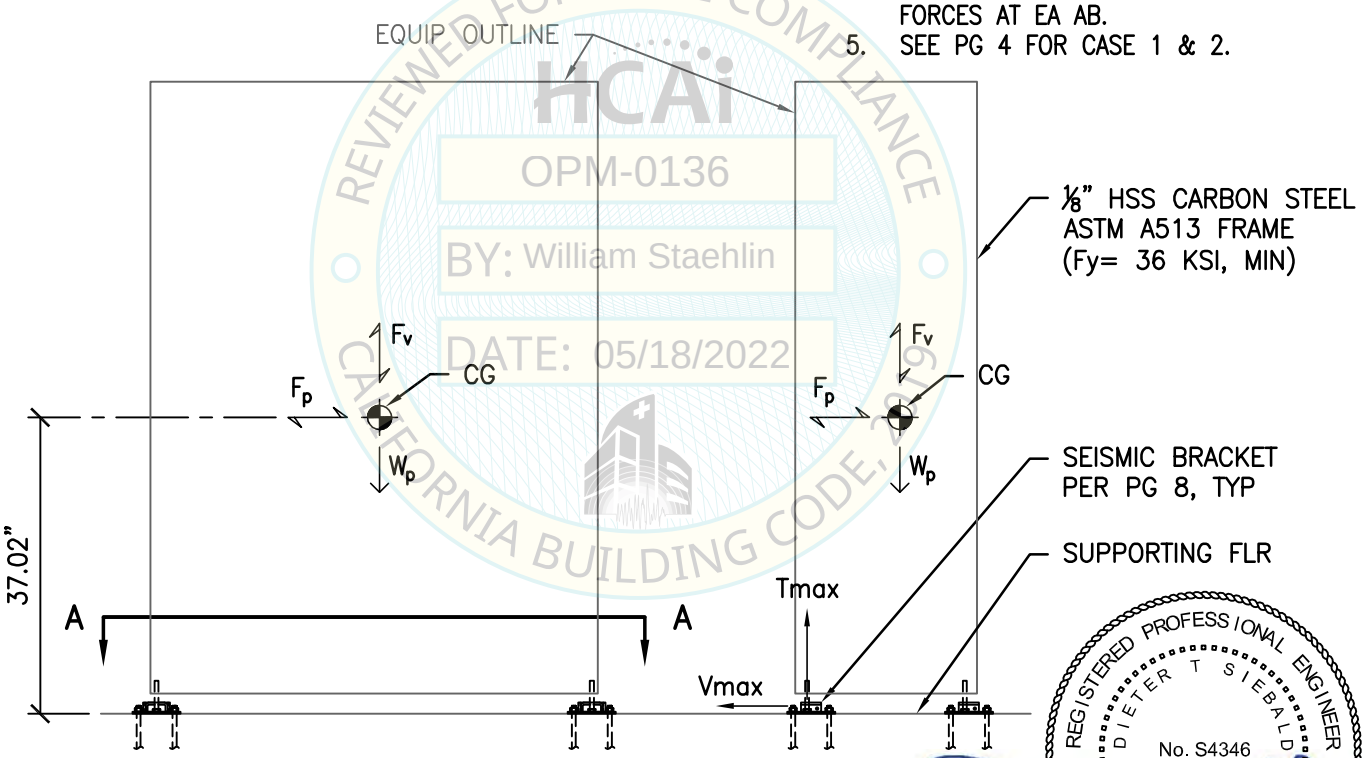
BD INTEGRATED DIAGNOSTIC SOLUTIONS
TOTALYS MULTIPROCESSOR



BASE PLAN A–A

	MAX ANCHOR FORCES AT LRFD AT LEVELING LEG [1]		
	T_{max}	C_{max}	V_{max}
CASE 1 [2]	3324#	4158#	1207#
CASE 1 [3]	5065#	5899#	1810#
CASE 2 [2]	1147#	1981#	452#
CASE 2 [3]	1800#	2634#	679#

1. ECCENTRICITY & PRYING ACTION MUST BE CONSIDERED BASED ON THE SEISMIC BRACKET CONFIGURATION.
2. OVERSTRENGTH FACTOR (Ω_o) EXCLUDED.
3. OVERSTRENGTH FACTOR (Ω_o) INCLUDED.
4. SEE PGS 11 & 13 FOR MAX ANCHOR FORCES AT EA AB.
5. SEE PG 4 FOR CASE 1 & 2.



FRONT ELEV

RIGHT SIDE ELEV

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SHEET TITLE: BASE PLAN & ELEVATIONS

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Job No:	22018.02
Date:	05/17/2022
Page:	7 of 13

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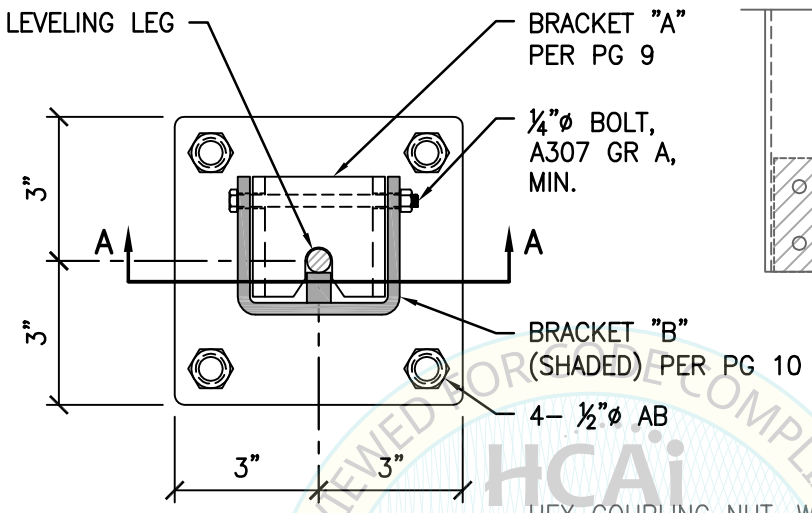
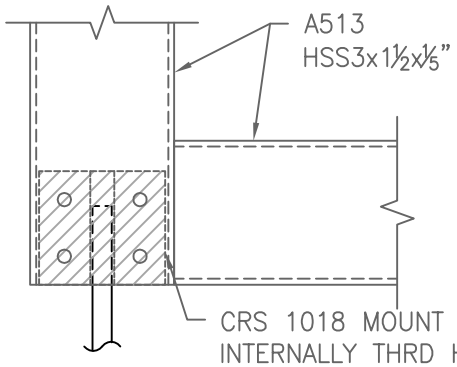
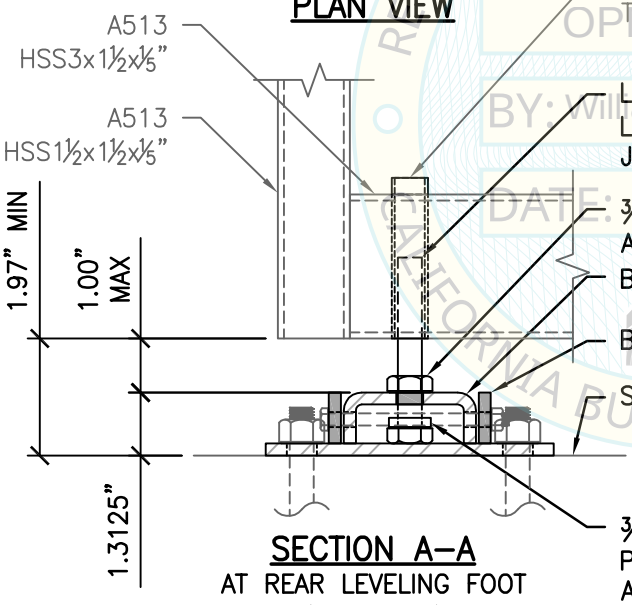
NOTES:
1. FOR CASE 1 & CASE 2 ANCHORAGE TO FLR, SEE PGS 11 TO 13.
2. BRACKET LAYOUT SHALL BE FOLLOWED AS SHOWN ON PLANS ON PG 7.



PLAN VIEW



SECTION A–A
AT FRONT LEVELING FOOT
(TYP OF 2)



SECTION A–A
AT REAR LEVELING FOOT
(TYP OF 2)

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SHEET TITLE: SEISMIC BRACKET ASSEMBLY DETAIL

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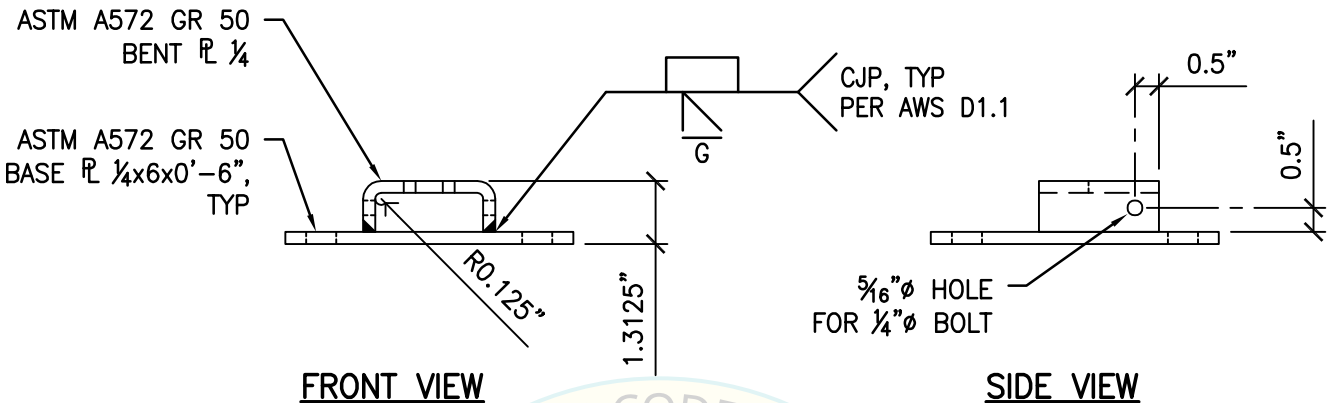
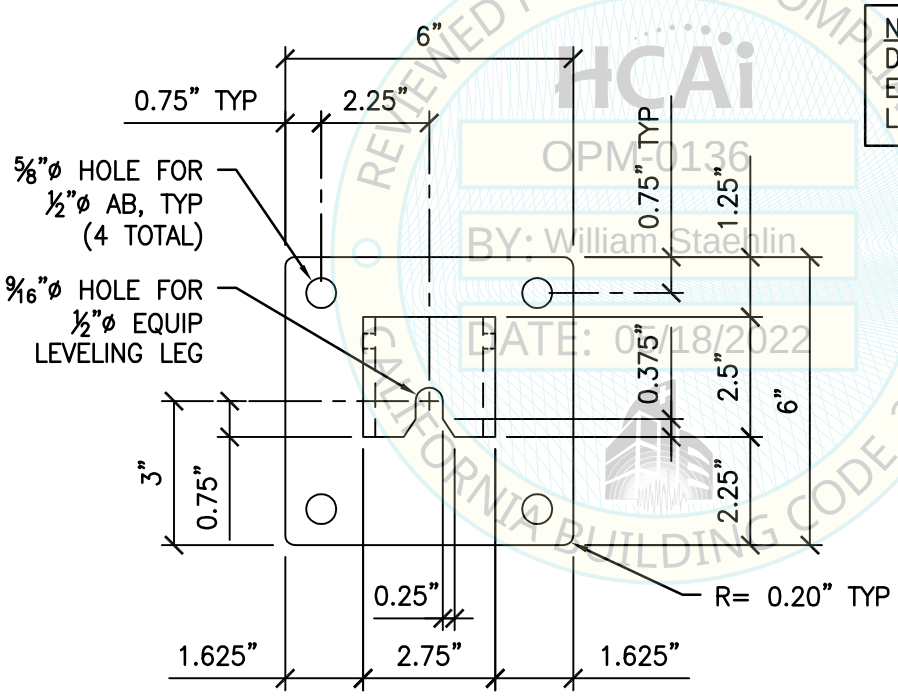
Job No:	22018.02
Date:	05/17/2022
Page:	8 of 13



FRONT VIEW

SIDE VIEW



PLAN VIEW

NOTE:
DUE TO TIGHT TOLERANCE, TAKE EXTREME CARE WHEN LAYING OUT LOCATIONS FOR CONC AB.

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SHEET TITLE: BRACKET "A" DETAIL

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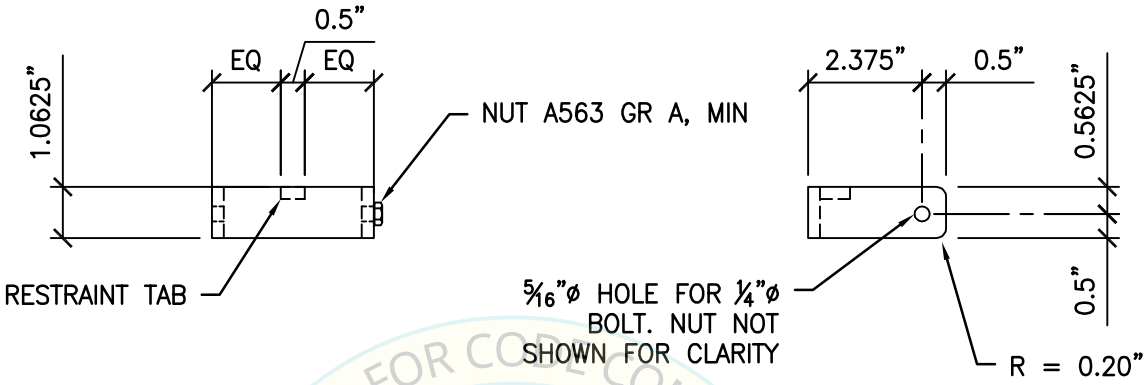
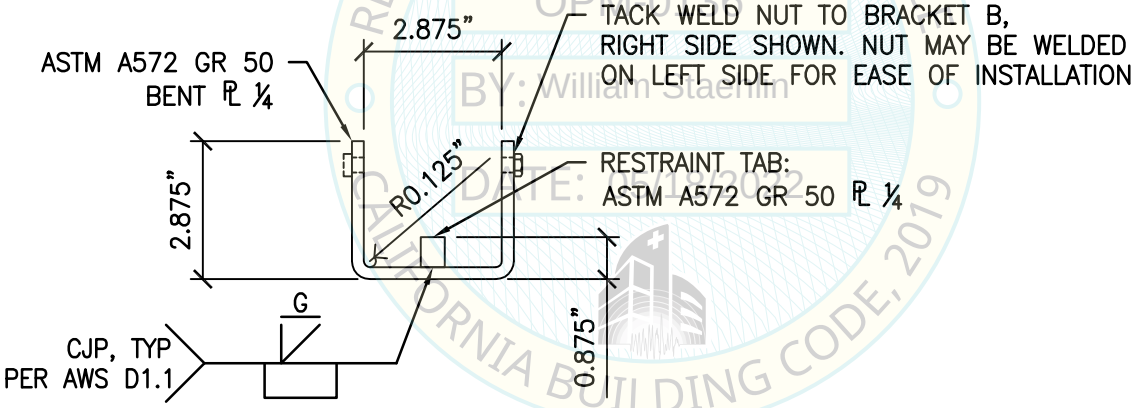
Job No:	22018.02
Date:	05/17/2022
Page:	9 of 13



FRONT VIEW

SIDE VIEW



PLAN VIEW

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SHEET TITLE: BRACKET "B" DETAIL

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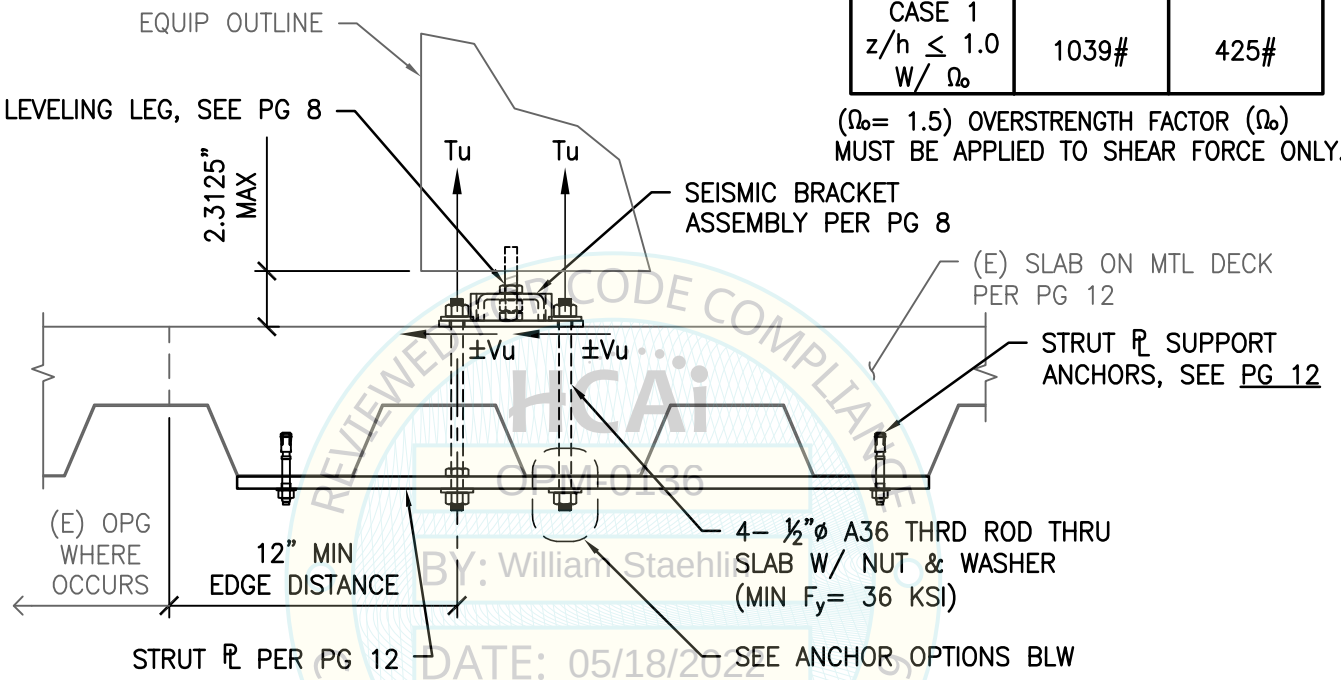
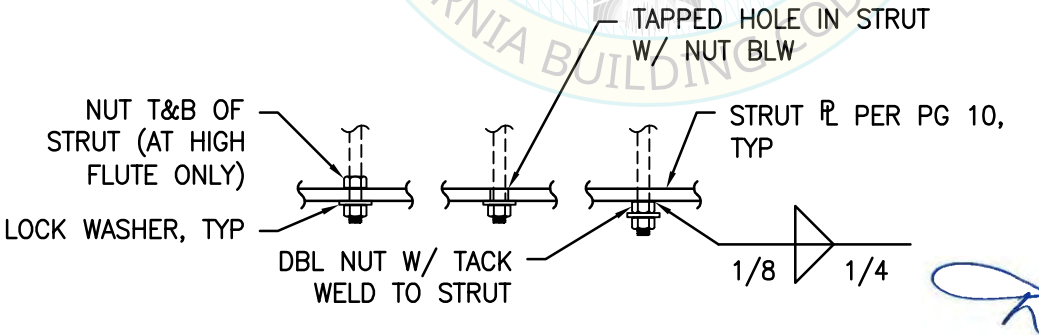
Job No:	22018.02
Date:	05/17/2022
Page:	10 of 13

	MAX ANCHOR FORCES AT LRFD AT EA AB	
	Tu	Vu
CASE 1 $z/h \leq 1.0$ W/O Ω_o	1039#	283#
CASE 1 $z/h \leq 1.0$ W/ Ω_o	1039#	425#

(Ω_o= 1.5) OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED TO SHEAR FORCE ONLY.



CASE 1 – SUSPENDED FLR W/ THRU BOLTS



ANCHOR OPTIONS

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SHEET TITLE: ATTACHMENT DETAILS
CONCRETE FILL OVER METAL DECK (CASE 1)

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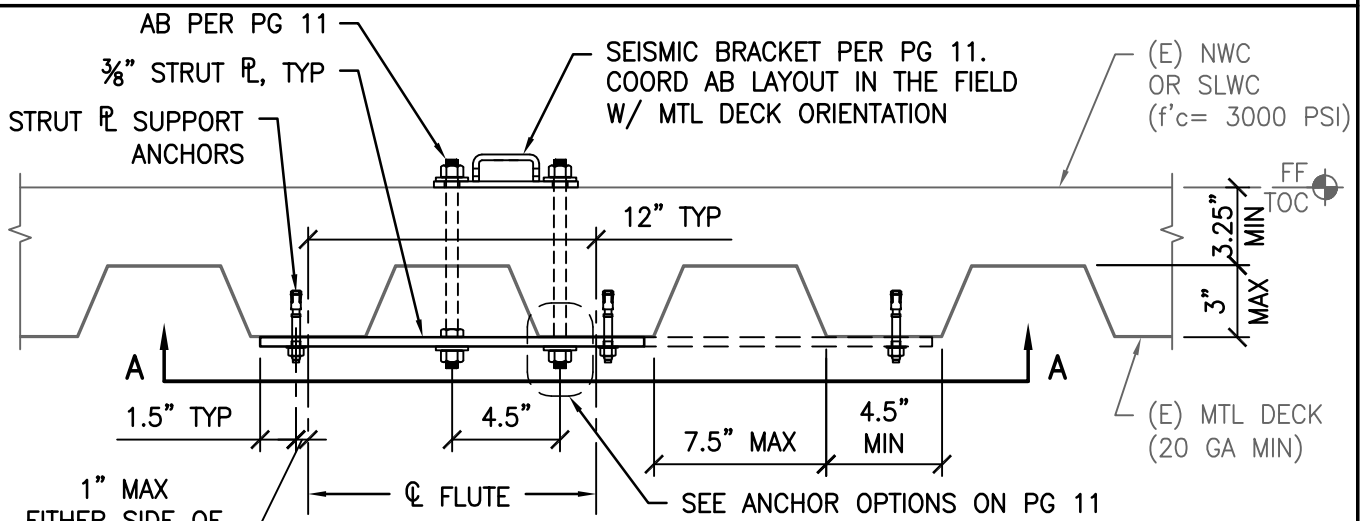
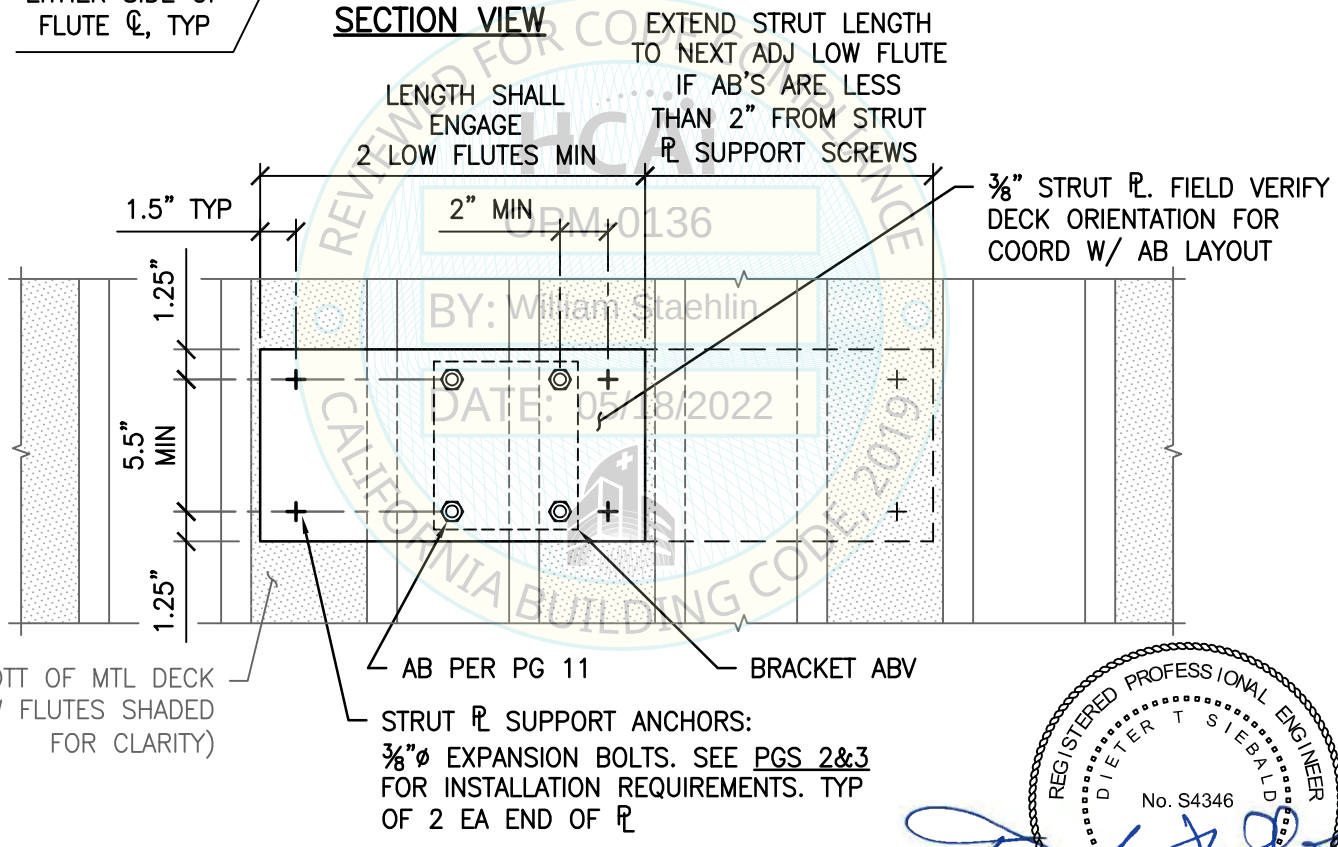
Job No:	22018.02
Date:	05/17/2022
Page:	11 of 13

BD INTEGRATED DIAGNOSTIC SOLUTIONS
TOTALYS MULTIPROCESSOR



SECTION VIEW



PLAN VIEW A–A

REGISTERED PROFESSIONAL ENGINEER
DIETER T SIEBALD
No. S4346
STRUCTURAL
STATE OF CALIFORNIA

SHEET TITLE: ATTACHMENT DETAILS
CONCRETE FILL OVER METAL DECK (CASE 1)

CYS STRUCTURAL ENGINEERS, INC.
2495 NATOMAS PARK DRIVE, SUITE 650
SACRAMENTO, CA 95833
TEL (916) 920-2020
www.cyseng.com

Job No:	22018.02
Date:	05/17/2022
Page:	12 of 13

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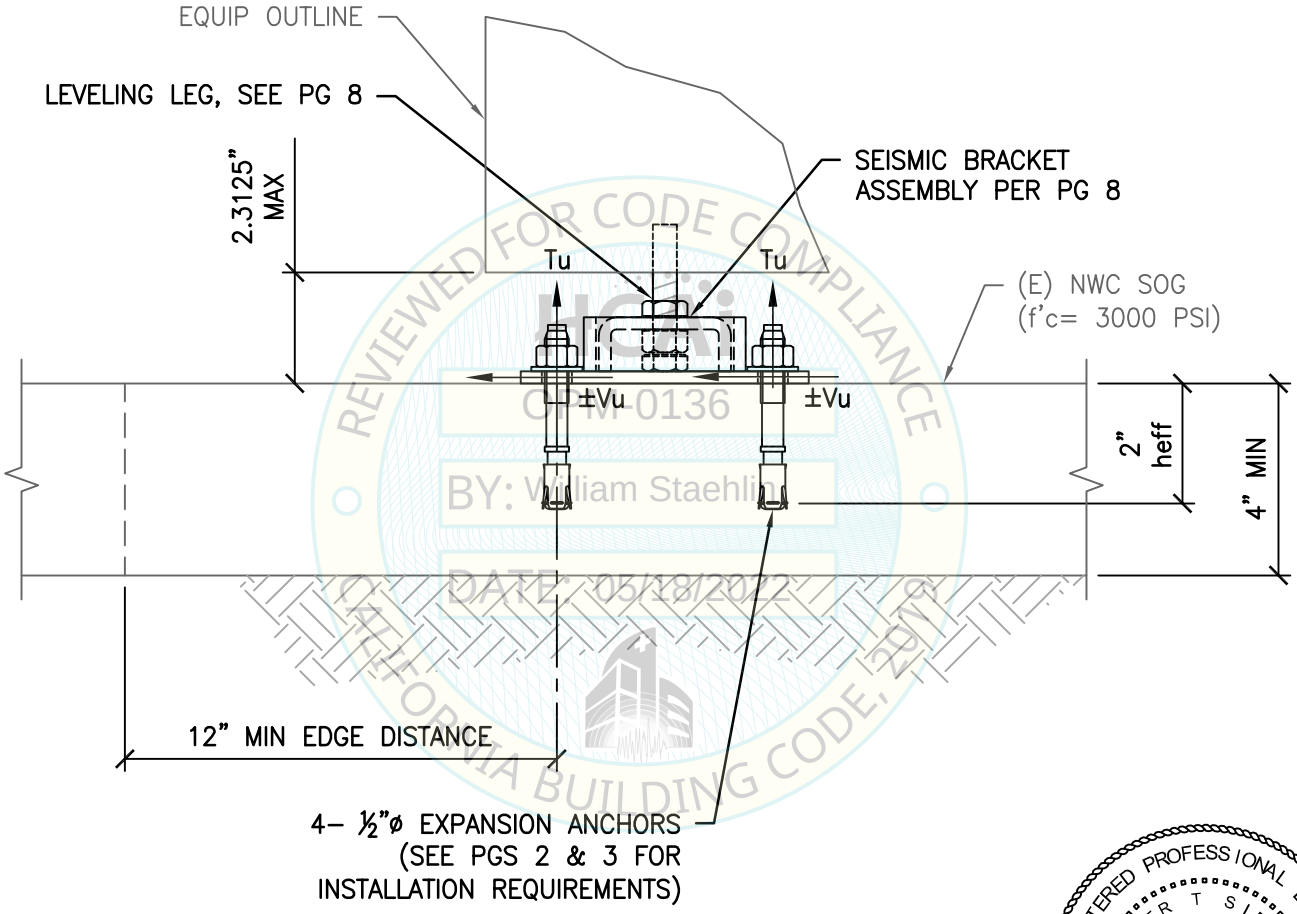
BD INTEGRATED DIAGNOSTIC SOLUTIONS
TOTALYS MULTIPROCESSOR

	MAX ANCHOR FORCES AT LRFD AT EA AB	
	Tu	Vu
CASE 2 z/h = 0	567#	159#

OVERSTRENGTH FACTOR (Ω_o) INCLUDED.



CASE 2 – SLAB ON GRADE

REGISTERED PROFESSIONAL ENGINEER
DIETER T SIEBALD
No. S4346
STRUCTURAL
STATE OF CALIFORNIA

SHEET TITLE: ATTACHMENT DETAILS
STAND TO SLAB ON GRADE (CASE 2)

CYS STRUCTURAL ENGINEERS, INC.
2495 NATOMAS PARK DRIVE, SUITE 650
SACRAMENTO, CA 95833
TEL (916) 920-2020
www.cyseng.com

Job No:	22018.02
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