

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

APPLICATION FOR HCAI PREAPPROVAL OF	OFFICE USE ONLY					
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0669					
HCAI Preapproval of Manufacturer's Certification (OPM)						
Type: X New Renewal/Update						
Manufacturer Information						
Manufacturer: Konica Minolta Heathcare Americas, Inc.						
Manufacturer's Technical Representative: Carson Thomas						
Mailing Address: 2217 U.S. Hwy 70 E, Garner, NC 27529						
Telephone: (224) 529-1873 Email: carson.the	e: (224) 529-1873 Email: carson,thomas@konicaminolta.com					
	MA					
Product Information	7					
Product Name: KDR System OPM-0669						
Product Type: Radiography and Fluoroscopy System						
Product Model Number: KDR System (SU-45XX, SU-40XX), General DR 80kW)	tors (SHF-415 to SHF-835, CMP200-DR40kW to CMP200-					
General Description: U Arm X-ray system and High Voltage General	tors4					
	S.					
Applicant Information						
Applicant Company Name: Structural Integrity Associates / TRU Con	npliance					
Contact Person: Grant Wu						
Mailing Address: 9710 Scranton Road, Suite 300, San Diego, CA 92	121					

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

Telephone: (619) 354-5602

Title: Senior Engineer

Email: gwu@structint.com



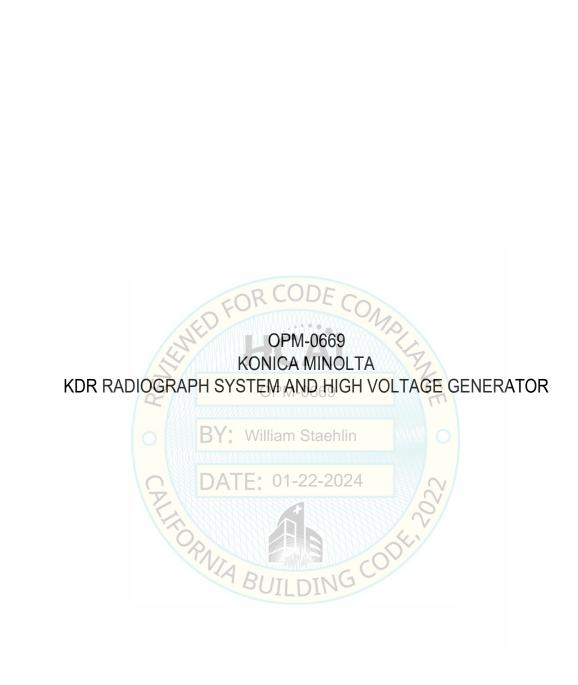
# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations							
Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.							
Name: LACHEZAR HANDZH	IYSKI California License Number: S6515						
Mailing Address: 5215 Hellyer Avenue, Suite 210, San Jose, CA 95138							
Telephone: (669) 437-0200	Email: Lhandzhiyski@StructInt.com						
HCAI Special Seismic Cer	rtification Preapproval (OSP)						
Special Seismic Certification is preapproved under OSP OSP Number: OSP-0576-10							
	OR CODE O						
Certification Method							
Testing in accordance with:	X ICC-ES AC156 FM 1950-16						
Other(s) (Please Specify)	OPM OCCO						
*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) 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 2022 may be used when approved by HCAI prior to testing.							
Analysis							
Experience Data	DATE: 01-22-2024						
Combination of Testing, Analysis, and/or Experience Data (Please Specify):							
	OPNIA CODE						
HCAI Approval	BOILDING						
Date: 1/22/2024							
Name: William Staehlin	Title: Senior Structural Engineer						
Condition of Approval (if applic	cable):						

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HCA

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5215 HELLYER AVENUE, SUITE 210 SAN JOSE, CALIFORNIA 95138

PHONE 1-877-4SI-POWER

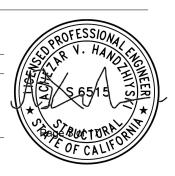
PROJECT #: 2200260

DRAWN: GW CHECKED: ZCW

OPM-0669: Reviewed for Code Compliance by William Staehlin REVIEWED: LH

DATE: 01/12/2024

SHEET: <u>01</u> of 15



#### GENERAL NOTES:

- THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 CBC.
- 2. THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
- THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE WHERE S<sub>DS</sub> IS NOT GREATER THAN 2.0 (z/h≤1) AND 2.5 (z/h=0). SEE DETAIL FOR APPLICABILITY.
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3
  - WHERE  $S_{DS} = 2.5$ ,  $a_P = 2.5$ ,  $I_P = 1.5$ ,  $R_P = 2.5$ , z/h = 0. SEE FOLLOWING SHEETS FOR  $\Omega_0$  (RADIOGRAPH SYSTEM).
  - WHERE  $S_{DS} = 2.0$ ,  $a_p = 2.5$ ,  $I_p = 1.5$ ,  $R_p = 2.5$ ,  $z/h \le 1.0$ . SEE FOLLOWING SHEETS FOR  $\Omega_0$  (RADIOGRAPH SYSTEM).
  - WHERE  $S_{DS}$  = 2.5,  $a_P$  = 2.5,  $I_P$  = 1.5,  $R_P$  = 6.0, z/h = 0. SEE FOLLOWING SHEETS FOR  $\Omega_0$  (VOLTAGE GENERATOR).
- WHERE  $S_{DS}$  = 2.0,  $a_P$  = 2.5,  $I_P$  = 1.5,  $R_P$  = 6.0,  $z/h \le$  1.0. SEE FOLLOWING SHEETS FOR  $\Omega_0$  (VOLTAGE GENERATOR).

  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. CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING (i.e. z/h≤1)
- 3. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. z/h=0)
- 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 2022 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  $S_{DS}$  & z/h RESULTS IN SEISMIC FORCES ( $E_h$ ,  $E_v$ ) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
  - D. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR REPORT AND THIS OPM
  - E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS.
  - 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.
- 10. POST-INSTALLED 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. f'c (psi)	Anchor Type	ICC Report	Effective Embed. Depth 69 (in.)	Min. Conc. Thickness (in.)	Min. Conc. Edge Dist. (in.)	Sheet
1/4"	Sand Light Weight	3000	KWIK HUS-EZ	3027	1.92	3.25	6	14
1/4"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	aehlin 1.5	4	2.5	12
1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	-2024	3.25	7.5	10
1/2"	Sand Light Weight	3000	ASTM F1554 GR. 105 Threaded Rod	N/A	Thru-Bolt	3.25	N/A	06
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	2.0	4	4	04
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	2.0	4	2.75	08

- B. INSTALL POST-INSTALLED ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS WITH PERIODIC SPECIAL INSPECTION AS REQUIRED BY CBC 2022 TABLE 1705A.3. REINFORCING STEEL DOWELS, THREADED RODS, AND ANCHORS SHALL BE FREE OF DUST, GREASE, RUST AND OTHER MATERIALS THAT WILL IMPAIR BOND WITH CONCRETE.
- C. USE ONLY NON-REBAR CUTTING DRILL BITS MEETING THE REQUIREMENTS OF ANSI B212.15-1994 (R2000) TO DRILL HOLES IN CONCRETE AND CONCRETE MASONRY UNITS. EXISTING REINFORCING STEEL AND PRESTRESSING TENDONS SHALL BE POSITIVELY LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. DO NOT CUT OR DAMAGE EXISTING REINFORCING STEEL AND PRESTRESSING TENDONS UNLESS APPROVED BY THE ENGINEER OF RECORD.
- D. WHERE EXISTING CONCRETE IS DAMAGED AND/OR DRILLED HOLES ABANDONED, THE DAMAGED CONCRETE OR ABANDONED HOLES SHALL BE REPAIRED OR FILLED WITH NO-SHRINK GROUT. BRING EACH CONDITION TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO IMPLEMENTING REPAIRS.
- E. BRING TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD ANY POST-INSTALLED ANCHOR LOCATION THAT CANNOT COMPLY WITH THE PARAMETERS STATED HEREIN AND INDICATED IN THIS OPM.
- F. DO NOT DRILL HOLES WITHIN 4 INCHES OF EXISTING ELECTRICAL OUTLETS THAT ARE EMBEDDED IN SUBSTRATE.
- G. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318-19 17.1.2).
- H. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.
- I. WHERE NEOPRENE WASHERS ARE REQUIRED IN FINAL INSTALLATION THE ANCHORS SHALL FIRST BE INSTALLED AND TESTED USING METAL WASHERS AND THE NEOPRENE WASHERS SHALL BE INSTALLED AFTER TESTING.



5215 HELLYER AVENUE, SUITE 210

SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER

OPM-0669: Reviewed for Code Compliance by Willia

#### **GENERAL NOTES**

CHECKED: ZCW

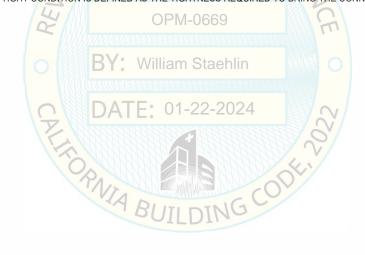
PROJECT #: 2200260 DATE: 01/12/2024

DRAWN: GW SHEET: 02 of 15

REVIEWED: LH SCALE: NTS ...... OPM-0669



- 11. BOLTS THROUGH CONCRETE ON METAL DECK
  - INSTALL THROUGH-BOLT ANCHORS WITH PERIODIC SPECIAL INSPECTION AS REQUIRED BY CBC 2022 TABLE 1705A.3.
  - USE ONLY NON-REBAR CUTTING DRILL BITS MEETING THE REQUIREMENTS OF ANSI B212.15-1994 (R2000) TO DRILL HOLES IN CONCRETE AND CONCRETE MASONRY UNITS. EXISTING REINFORCING STEEL AND PRESTRESSING TENDONS SHALL BE POSITIVELY LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. DO NOT CUT OR DAMAGE EXISTING REINFORCING STEEL AND PRESTRESSING TENDONS UNLESS APPROVED BY THE ENGINEER OF RECORD.
  - WHERE EXISTING CONCRETE IS DAMAGED AND/OR DRILLED HOLES ABANDONED. THE DAMAGED CONCRETE OR ABANDONED HOLES SHALL BE REPAIRED OR FILLED WITH NO-SHRINK GROUT. BRING EACH CONDITION TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO IMPLEMENTING REPAIRS.
  - BRING TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD ANY THROUGH-BOLT ANCHOR LOCATION THAT CANNOT COMPLY WITH THE PARAMETERS STATED HEREIN AND INDICATED IN THIS OPM.
  - E. DO NOT DRILL HOLE WITHIN 4 INCHES OF EXISTING ELECTRICAL OUTLETS THAT ARE EMBEDDED IN SUBSTRATE.
  - PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.
  - THROUGH-BOLTS BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG-TIGHT CONDITION IS ACHIEVED, UNLESS NOTED G OTHERWISE. (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT)
  - Η. THROUGH-BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
  - THROUGH-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.
- TESTING REQUIREMENTS 12.
  - TEST 50% OF INSTALLED ANCHORS. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE WHICH ARE INSTALLED BY THE SAME TRADE AND NOT PREVIOUSLY TESTED SHALL BE TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST
  - TEST LOADS SHALL BE THE MANUFACTURER'S RECOMMENDED PROOF LOADS AND INSTALLATION TORQUES AS APPROVED IN ICC-ES REPORTS В. AND PROVIDED ON THE FOLLOWING SHEETS.
  - ANCHORS SHALL BE TESTED BY THE TORQUE WRENCH METHOD USING A CALIBRATED TORQUE WRENCH WITHIN 1/2 TURN OF NUT.
  - ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE SPECIAL INSPECTOR/INSPECTOR OF RECORD. D
- STEEL TO STEEL BOLTED CONNECTIONS 13.
  - STEEL TO STEEL BOLTS SHALL BE TORQUED BY 1/2 TURN OF THE NUTS AFTER THE SNUG-TIGHT CONDITION IS ACHIEVED, UNLESS NOTED OTHERWISE. (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT)





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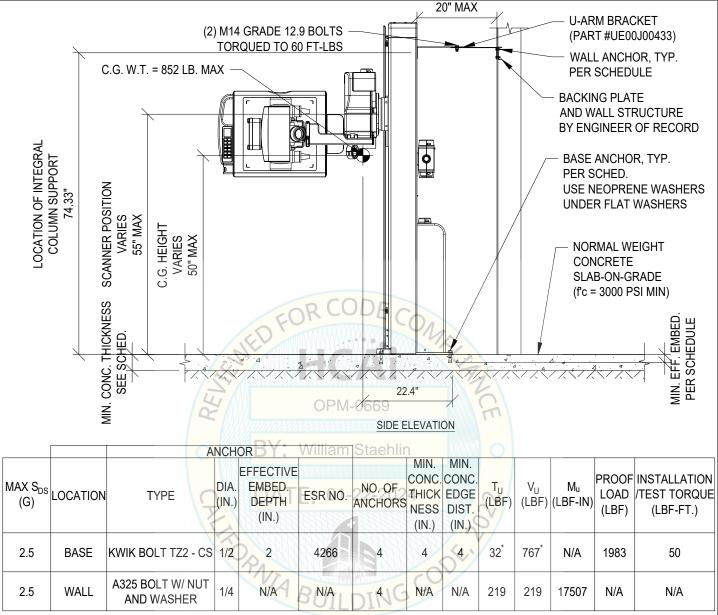
#### **GENERAL NOTES**

PROJECT #: 2200260 DATE: 01/12/2024 DRAWN: GW SHEET: 03 of 15

CHECKED: ZCW REVIEWED: LH

OPM-0669 SCALE: NTS
OPM-0669: Reviewed for Code Compliance by Willia





<sup>\*</sup> VALUES INCLUDE  $\Omega_o$ 

#### NOTES:

- FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13. STRENGTH DESIGN IS USED. ( $a_p$  = 2.5,  $I_p$  = 1.5,  $R_p$  = 2.5,  $\Omega_0$  = 2.0, z/h = 0)
- CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL 2. ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- LOADS LISTED ARE THE MAXIMUM FOR AN INDIVIDUAL ANCHOR. 3.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- KDR RADIOGRAPH HAS OBTAINED SPECIAL SEISMIC CERTIFICATION. REFER TO OSP-0576 (UUT-1). OPM MUST BE 5. USED IN CONJUNCTION WITH OSP-0576.
- SEE GENERAL NOTES: SHEET 2 AND 3. 6.



5215 HELLYER AVENUE, **SUITE 210** 

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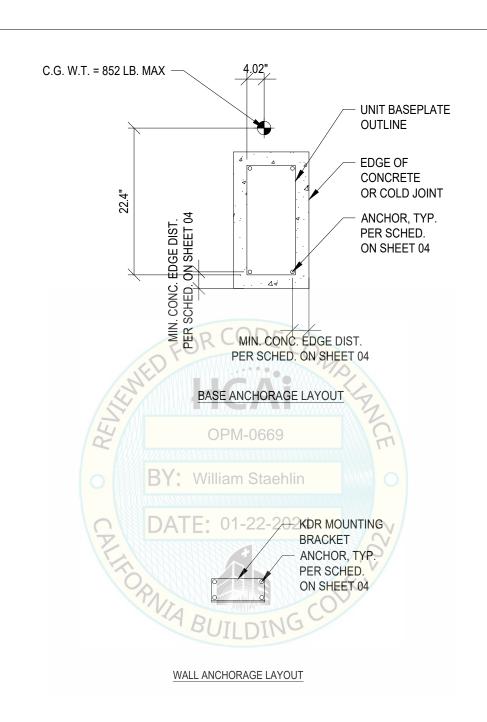
### KDR Radiograph System SU-45XX (Slab-on-Grade)

PROJECT #: 2200260 DATE: 01/12/2024 DRAWN: GW SHEET: 04 of 15

CHECKED: ZCW REVIEWED: LH

OPM-0669: Reviewed for Code Compliance by William







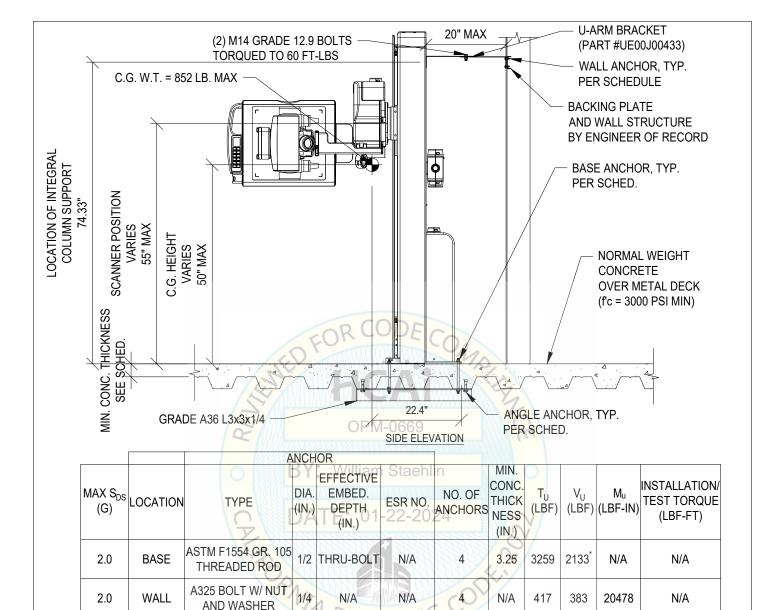
KDR Radiograph System SU-45XX (Slab-on-Grade)

PROJECT #: 2200260 DATE: 01/12/2024
DRAWN: GW SHEET: 05 of 15

CHECKED: ZCW REVIEWED: LH

REVIEWED: LH OPM-0669: Reviewed for Code Compliance by William Staehlin





<sup>\*</sup> VALUES INCLUDE Ω<sub>0</sub>

**ANGLE** 

#### NOTES:

2.0

FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13. STRENGTH DESIGN IS USED. ( $a_p$  = 2.5,  $I_p$  = 1.5,  $R_p$  = 2.5,  $\Omega_o$  = 2.0,  $z/h \le 1.0$ )

3.25

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

4266

LOADS LISTED ARE THE MAXIMUM FOR AN INDIVIDUAL ANCHOR.

KWIK BOLT TZ2 - CS 1/2

- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- KDR RADIOGRAPH HAS OBTAINED SPECIAL SEISMIC CERTIFICATION. REFER TO OSP-0576 (UUT-1). OPM MUST BE USED IN CONJUNCTION WITH OSP-0576.



5215 HELLYER AVENUE, **SUITE 210** 

SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER

## KDR Radiograph System SU-45XX (Concrete over Metal Deck)

4

3.25

0

2133

N/A

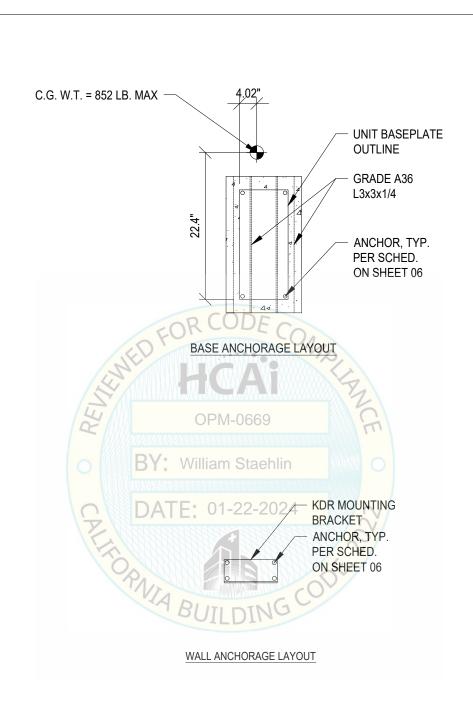
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PROJECT #: 2200260 DATE: 01/12/2024 DRAWN: GW SHEET: 06 of 15

CHECKED: ZCW REVIEWED: LH

SCALE: NTS
OPM-0669: Reviewed for Code Compliance by William







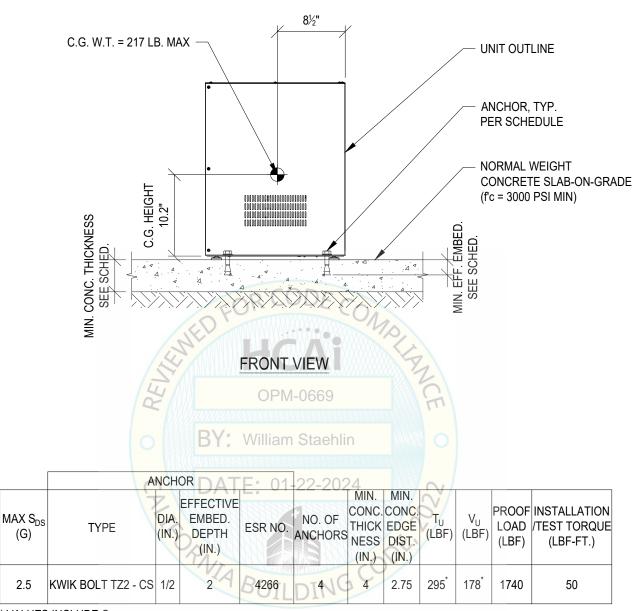
KDR Radiograph System SU-45XX (Concrete over Metal Deck)

PROJECT # : 2200260 DATE: 01/12/2024

DRAWN: GW SHEET: 07 of 15 CHECKED: ZCW

PHONE 1-877-4SI-POWER REVIEWED : LH SCALE: NTS OPM-0669: Reviewed for Code Compliance by William Staehlin





<sup>\*</sup> VALUES INCLUDE  $\Omega_{\circ}$ 

#### NOTES:

- FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13. STRENGTH DESIGN IS USED. ( $a_p$  = 2.5,  $I_p$  = 1.5,  $R_p$  = 6.0,  $\Omega_o$  = 2.0, z/h = 0)
- CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- KDR SHF-835 HAS OBTAINED SPECIAL SEISMIC CERTIFICATION. REFER TO OSP-0576 (UUT-4).
- SEE GENERAL NOTES: SHEET 2 AND 3.



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SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER

SCALE: NTS
OPM-0669: Reviewed for Code Compliance by Willia

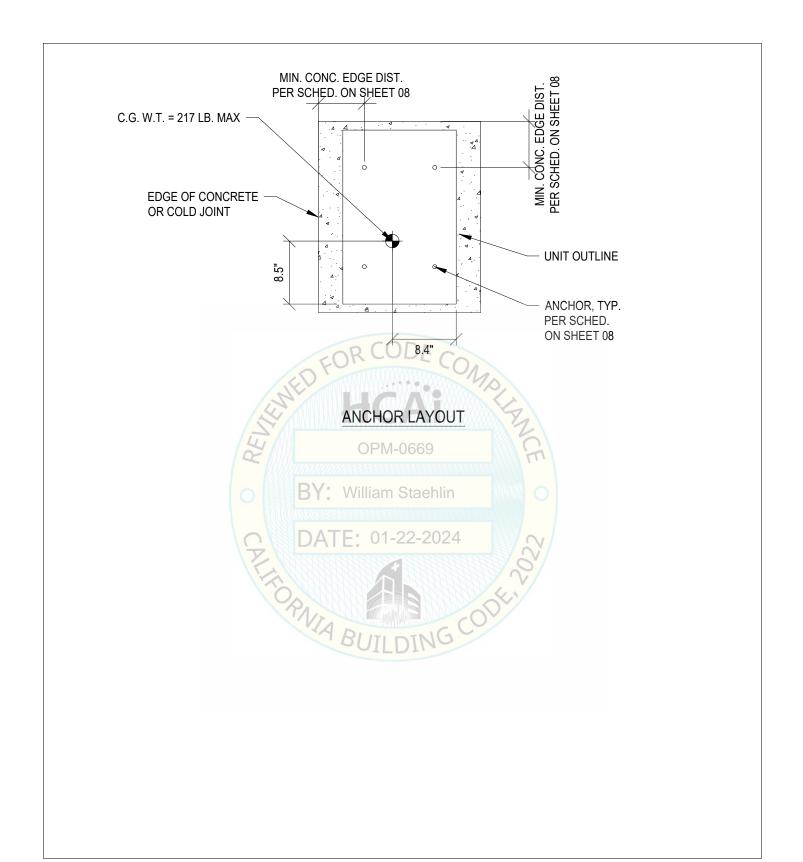
## High Voltage Generator SHF-835 (Slab-on-Grade)

PROJECT #: 2200260 DATE: 01/12/2024 DRAWN: GW SHEET: 08 of 15

CHECKED: ZCW REVIEWED: LH

OPM-0669







High Voltage Generator SHF-835 (Slab-on-Grade)

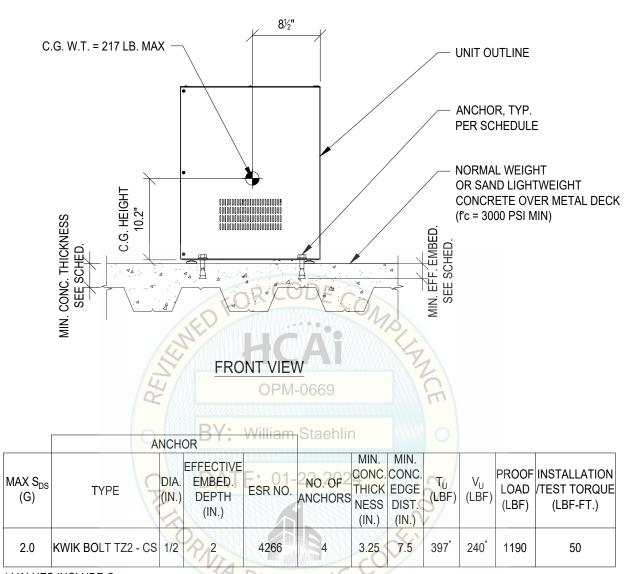
PROJECT #: 2200260 DATE: 01/12/2024

DRAWN: GW SHEET: 09 of 15

CHECKED: ZCW REVIEWED: LH

REVIEWED: LH OPM-0669: Reviewed for Code Compliance by William Staehlin





#### \* Values include $\Omega_{\!\scriptscriptstyle 0}$

#### NOTES:

- 1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13. STRENGTH DESIGN IS USED. ( $a_p$  = 2.5,  $I_p$  = 1.5,  $R_p$  = 6.0,  $\Omega_o$  = 2.0, z/h = 1.0)
- 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 TO PROVIDE STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 4. KDR SHF-835 HAS OBTAINED SPECIAL SEISMIC CERTIFICATION. REFER TO OSP-0576 (UUT-4).
- 5. SEE GENERAL NOTES: SHEET 2 AND 3.



High Voltage Generator SHF-835 (Concrete over Metal Deck)

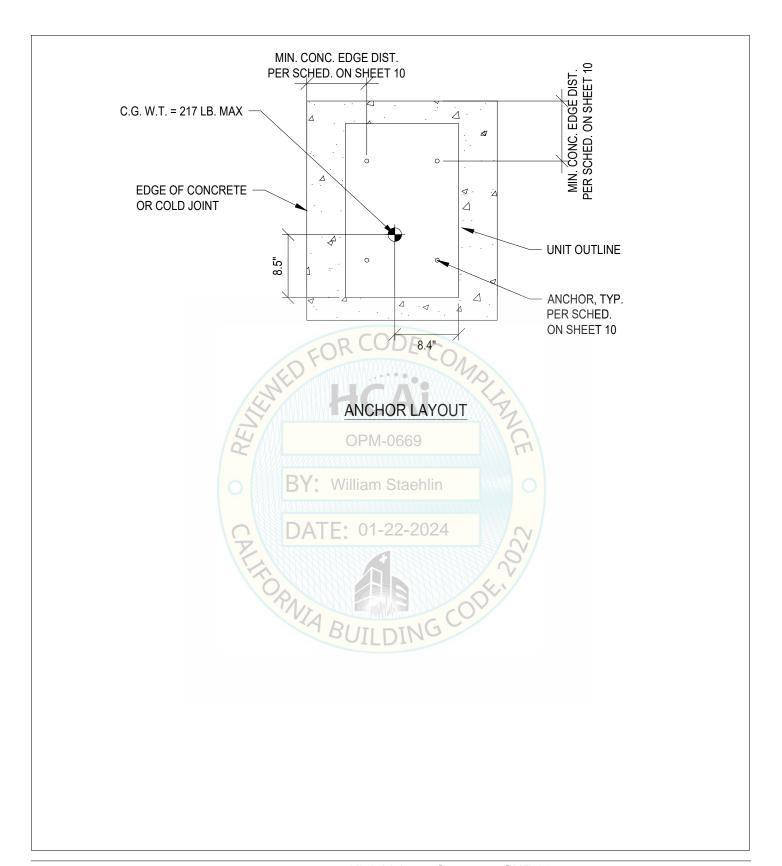
PROJECT #: 2200260 DATE: 01/12/2024

DRAWN: GW SHEET: 10 of 15

CHECKED: ZCW REVIEWED: LH

REVIEWED: LH SCALE: NTS OPM-0669: Reviewed to Code Compliance by William Staehlin







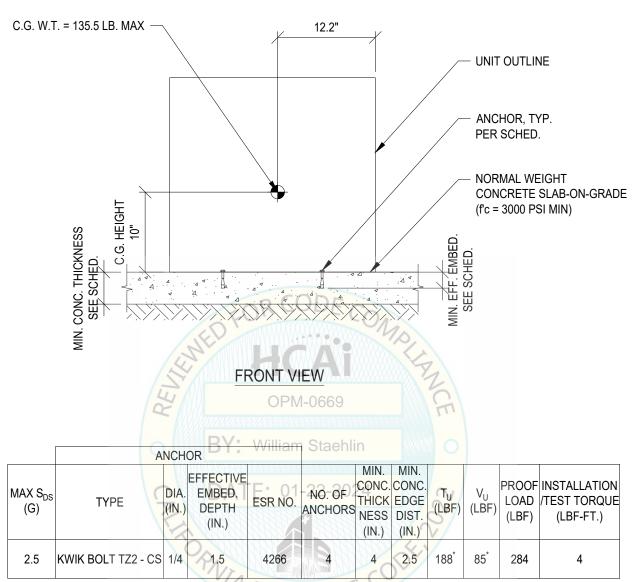
# High Voltage Generator SHF-835 (Concrete over Metal Deck)

PROJECT #: 2200260 DATE: 01/12/2024

DRAWN: GW SHEET: 11 of 15 CHECKED: ZCW

PHONE 1-877-4SI-POWER REVIEWED : LH SCALE: NTS OPM-0669: Reviewed for Code Compliance by William Staehlin





#### \* VALUES INCLUDE Ω<sub>0</sub>

#### NOTES:

- FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13.
- STRENGTH DESIGN IS USED. (a $_p$  = 2.5, I $_p$  = 1.5, R $_p$  = 6.0,  $\Omega_o$  = 2.0, z/h = 0) CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- KDR CMP200 HAS OBTAINED SPECIAL SEISMIC CERTIFICATION. REFER TO OSP-0576 (UUT-6).
- SEE GENERAL NOTES: SHEET 2 AND 3.



5215 HELLYER AVENUE, **SUITE 210** 

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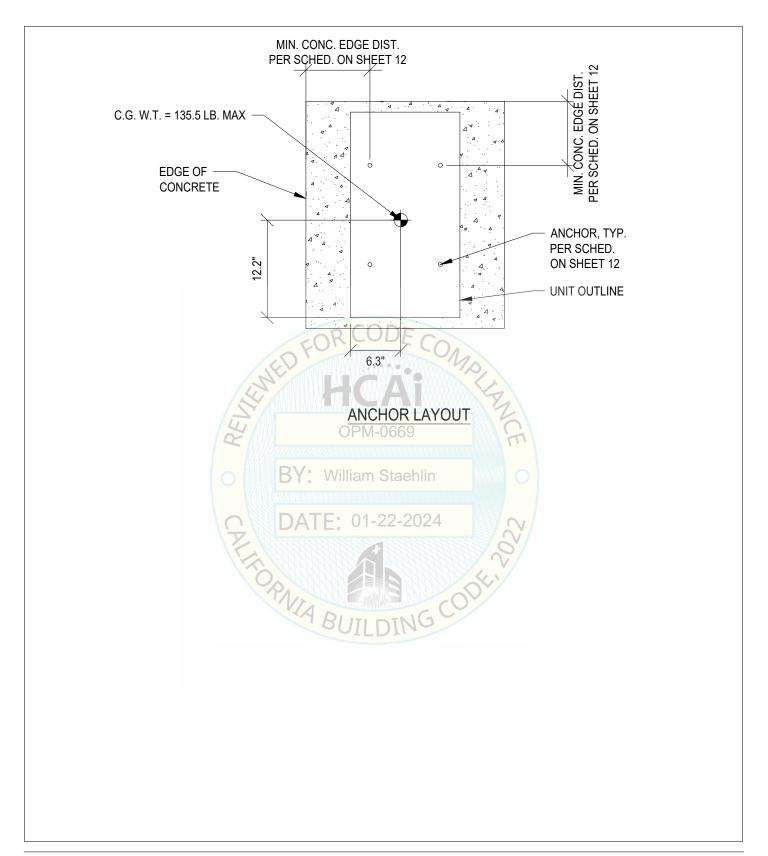
## High Voltage Generator CMP200-DR 80kV' (Slab-on-Grade)

PROJECT #: 2200260 DATE: 01/12/2024 DRAWN: GW SHEET: 12 of 15

CHECKED: ZCW REVIEWED: LH

OPM-0669: Reviewed for Code Compliance by Willia







5215 HELLYER AVENUE, SUITE 210 SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER

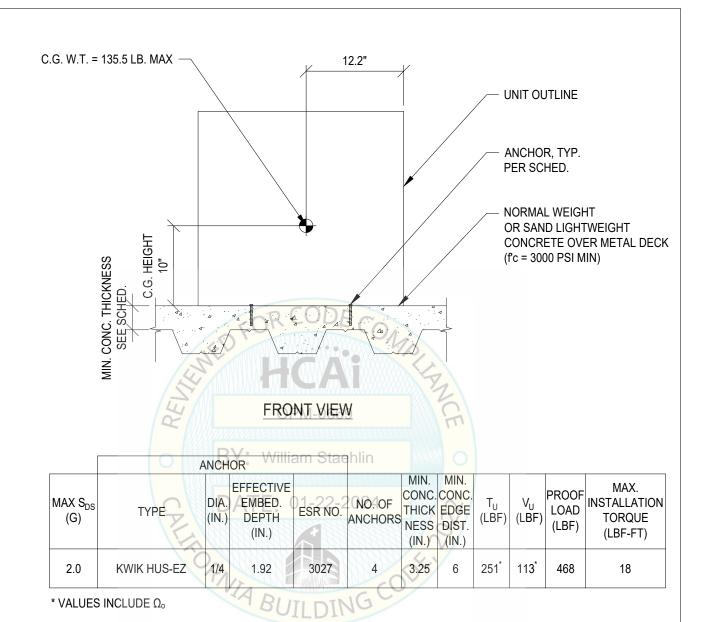
High Voltage Generator CMP200-DR 80kV' (Slab-on-Grade)

PROJECT #: 2200260 DATE: 01/12/2024 DRAWN: GW SHEET: 13 of 15

CHECKED: ZCW REVIEWED: LH

OPM-0669: Reviewed for Code Compliance by William Staehlin





#### NOTES:

- FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13. STRENGTH DESIGN IS USED. ( $a_D = 2.5$ ,  $I_D = 1.5$ ,  $R_D = 6.0$ ,  $\Omega_D = 2.0$ , z/h = 1.0)
- 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 TO PROVIDE STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 4. KDR CMP200 HAS OBTAINED SPECIAL SEISMIC CERTIFICATION. REFER TO OSP-0576 (UUT-6).
- SEE GENERAL NOTES: SHEET 2 AND 3.



High Voltage Generator CMP200-DR 80kV' (Concrete over Metal Deck)

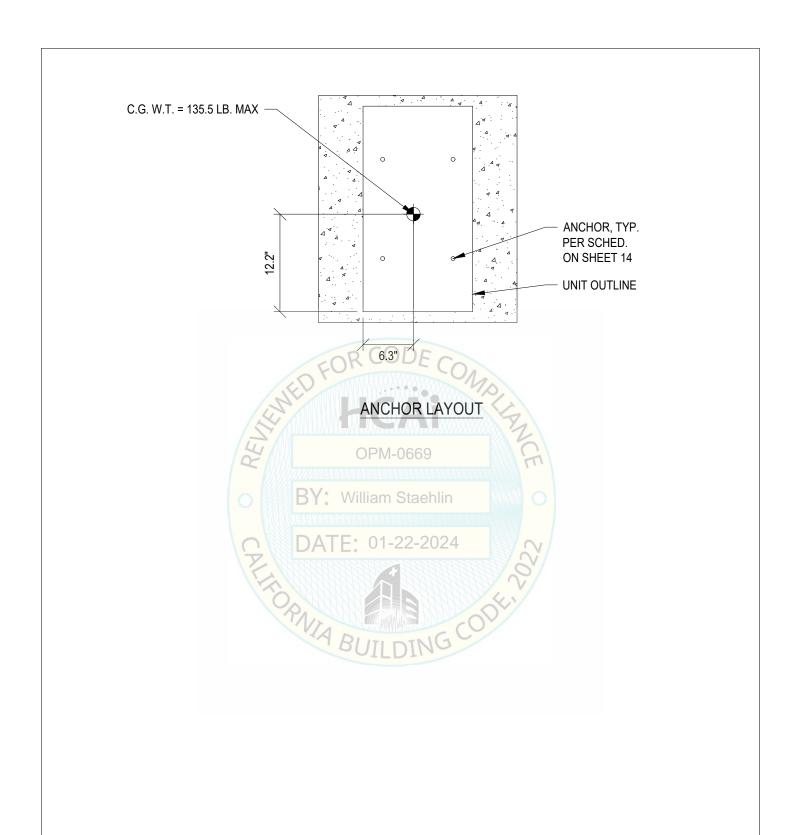
PROJECT #: 2200260 DATE: 01/12/2024

DRAWN: GW SHEET: 14 of 15

CHECKED: ZCW REVIEWED: LH

1-877-4SI-POWER REVIEWED: LH SCALE: NTS OPM-0669: Reviewed tor Code Compliance by William Staehlin







High Voltage Generator CMP200-DR 80kV' (Concrete over Metal Deck)

PROJECT #: 2200260 DATE: 01/12/2024
DRAWN: GW SHEET: 15 of 15

CHECKED: ZCW REVIEWED: LH

REVIEWED: LH SCALE: NTS OPM-0669: Reviewed for Code Compliance by William Staehlin

