



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

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

OFFICE USE ONLY

APPLICATION #: OPM-0517

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal/Update

Manufacturer Information

Manufacturer: Steelco-USA, Inc

Manufacturer's Technical Representative: Christopher Sillet

Mailing Address: 7354 Central Industrial Drive, West Palm Beach, FL 33404

Telephone: (561) 791-8313

Email: sillet@steelco-usa.com

Product Information

Product Name: STEELCO Medical Washers

Product Type: Washer Disinfector

Product Model Number: DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks DS 1000 N, DS 1000 N1S, DS 1000 N2S

General Description: General Description: DS 1000 SERIES ADDITIONAL UNITS

Applicant Information

Applicant Company Name: Steelco-USA, Inc

Contact Person: Christopher Sillet

Mailing Address: 7354 Central Industrial Drive, West Palm Beach, FL 33404

Telephone: (561) 791-8313

Email: sillet@steelco-usa.com

Title: Vice President

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Registered Design Professional Preparing Engineering Recommendations

Company Name: FIROUZI CONSTULTING ENGINEERS, INC.
Name: Masoud Firouzi California License Number: CE36433
Mailing Address: 5965 Village Way, Suite 105-642, San Diego, CA 92130
Telephone: (619) 997-9997 Email: mikefirouzi@gmail.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): ASCE 7-16

*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: 12/17/2024
Name: Haeseong Lim Title: Senior Structural Engineer
Condition of Approval (if applicable): _____

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Department of Health Care Access and Information
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION

OPM-0517-19

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

GENERAL NOTES

SCOPE OF PRE-APPROVAL:

- 1) This HCAI Preapproval 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) Scope covers entire component supports (Those members, assemblies of members, or manufactured elements, and associated fasteners that transmit loads between nonstructural components and their attachments to the structure. Support includes structural members between components and attachments, braces, frames, skirts, legs, saddles, pedestals, cables, guys, stays, snubbers, hangers, struts, and tethers, as well as elements forged or cast as a part of the mechanical or electrical component and associated fasteners that transmit loads between nonstructural components and their attachments to the structure, etc.) & attachments (Means by which nonstructural components or supports of nonstructural components are secured or connected to the seismic force-resisting system of the structure. Such attachments include anchor bolts, welded connections, and mechanical fasteners) as required by ASCE 7-16.

DESIGN CRITERIA:

- 1) Governing code: 2019 California Building Code and ASCE 7-16. Allowable Stress Design is used. Strength stress values used to obtain capacities, were subsequently converted to ASD to obtain allowable.

(GENERAL NOTES: PAGES 1 OF 6)

EQUIPMENT LIST FOR OPM-0517-19: ▲ DECEMBER 10-2024

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

▲ 3 EQUIPMENT ADDED: DS 1000 N, DS 1000 N1S, DS 1000 N2S



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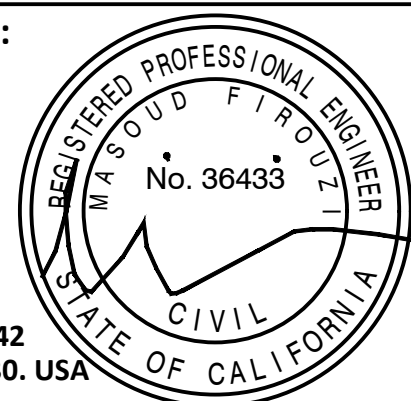
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STRUCTURAL DESIGN BY:

**FIROUZI
 CONSULTING
 ENGINEERS, INC.**

**5965 VILLAGE WAY, STE 105-642
 SAN DIEGO, CALIFORNIA, 92130. USA
 619.997.9997**



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DESIGN CRITERIA CONTINUE:

CONTINUE FROM PREVIOUS PAGE:

Strength Level Coefficients

Vertical Force (Ev) = 0.32 Wp

Horizontal Force (Eh) = 1.92 Wp (z/h≤1.0) at Concrete Slab on Metal Deck

0.72 Wp (z/h=0) at Concrete Slab

S_{DS} = 1.6 (maximum)

a_p = 1.0

ASCE 7-16, Table 13.6.1

I_p = 1.5

2019 CBC Section 1617A.1.17

R_p = 1.5

ASCE 7-16, Table 13.6-1 (Other Mechanical or Electrical Components constructed of sheet metal)

Ω_p = 1.5

2019 CBC Section 1617A.1.23

- 2) Center of gravity shown represents the load from a fully loaded equipment weight.
- 3) Design assumptions made for this equipment to be installed at any location in the State of California and in any floor height where S_{DS} is not greater than 1.6.


SCOPE OF OPM ENGINEER OF RECORD FOR SUPPORT:

- 1) The OPM designer is responsible for the connections to the building structure, including the struts.


SCOPE OF STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING:

- 1) Structural Engineer of Record for the Support Structure, to provide Structural Engineering and Structural Details for the structure supporting anchors.
- 2) Structural Engineer of Record for the Support Structure to verify and provide Structural Engineering and Details for the Existing Structure to support the existing loads in addition to the new loads added by STEELCO equipment.

(GENERAL NOTES: PAGES 2 OF 6)

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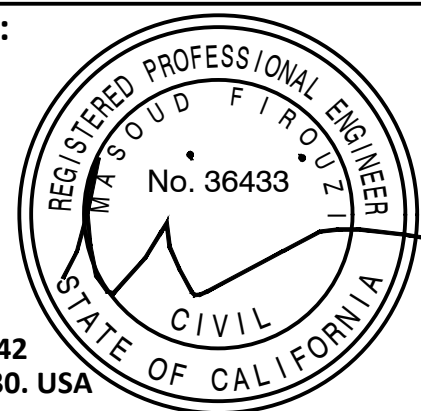
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SCOPE OF STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING CONTINUE:

- 3) Structural Engineer of Record shall verify that the structure is compatible with the anchors/connections shown in this OPM, (for example, a wood floor structure would not be compatible with the anchorage detailed)
- 4) Approval of the Structural Engineer of Record for Support Structure Design is not part of this Pre-Approval.
- 5) Project specific values of S_{DS} and z/h shall not exceed the values on this OPM.
- 6) Concrete slab for the anchor shall be verified to meet the requirement of its testing report and this OPM.
- 7) Concrete anchor's location shall be verified for the edge/end distance from the concrete edge or opening as indicated on the detail for this OPM.
- 8) Anchors' interaction shall be verified between new and existing anchors where they are within 18" or $6 \cdot h_{ef}$ from the unit's anchor.

BY: William Staehlin


EXPANSION ANCHORS:


1) Equipment shall be attached with the anchors listed and installed as follows:

- Anchor Diameter: 3/8", 1/2" or 3/4" diameter as specified on drawings
- Concrete Type: Normal weight or sand lightweight
- Min. f'c (psi): 3000
- Anchor Type: HILTI Kwik Bolt TZ2 Stainless Steel
- ICC-ES ESR Report #: ICC ESR-4266
- Min. Embedment (inches):

- 2" for 3/8" Diameter anchor bolts.
- 3 1/4" for 1/2" Diameter anchor bolts.
- 3 3/4" for 3/4" Diameter anchor bolts.

(GENERAL NOTES: PAGES 3 OF 6)

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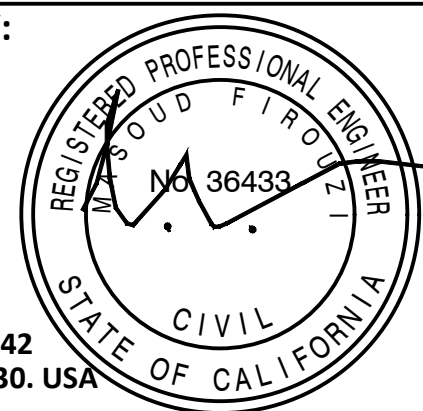
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EXPANSION ANCHORS CONTINUE:

CONTINUE FROM PREVIOUS PAGE:

Test Loads: - Direct Pull Tension: 3/8" dia. anchor bolt: 1810 lbs (for S.S.)
1/2" dia. anchor bolt: 3035 lbs (for S.S.)
3/4" dia. anchor bolt: 4646 lbs (for S.S.)
- Torque: 3/8" dia. anchor bolt: 30 ft-lbs (for S.S.)
1/2" dia. anchor bolt: 40 ft-lbs (for S.S.)
3/4" dia. anchor bolt: 125 ft-lbs (for S.S.)

- 2) It shall provide the full thread engagement of the nut and washer.
- 3) It shall avoid damaging existing rebar in the slab when installing the concrete anchor.


EXPANSION ANCHOR TESTING:

1. Direct pull tension or torque test shall be performed at least 24 hours after installation on at least 50% of the anchors. The testing of post-installed anchors shall be done in the presence of the special inspector, and a report of the test results shall be submitted to the inspector of record, owner, and architect or engineer in responsible charge (per CAC Section 7-149).
2. Acceptable performance criteria: 12/16/2024
 - a) Torque Test:
The specified torque must be reached within one-half (1/2) turns of the nut.
 - b) Direct Pull Tension Test:
At the test load, it shall maintain the test load for a minimum of 15 seconds, and there shall be no observable movement of the anchors, and the washers shall not become loose.
3. In case of any anchor failure, TEST ALL ANCHORS.

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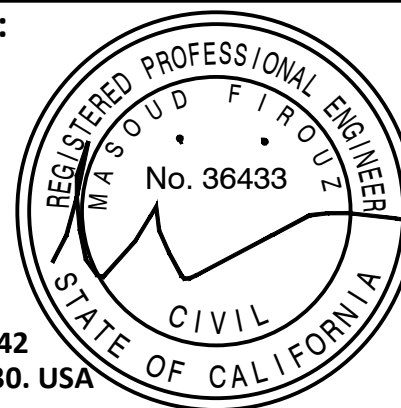
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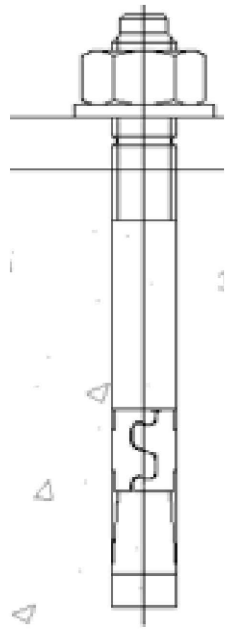
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TYPICAL ANCHOR EMBEDMENT TO ELEVATED SLAB AND SLAB ON GRADE:

3/8", 1/2" Or 3/4" Dia Kwik Bolt Tz2 W/2", 3 1/4" Or 3 3/4" Effective Embedment Length Into Elevated Slab Or Slab On Grade Below Unit To Follow Note 1. Below:



NOTE 1

The Minimum Thickness Of Reinforced Concrete Slabs is as Follows:

1) EQUIPMENT ATTACHED TO THE TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- Elevated Slabs: 8" Min
- Slab-on-grade:

Anchorage Diameter	Min. Effective Embedment	Concrete Type Min F'c=3000 Psi	Minimum Concrete Measured Thickness
3/8"	2"	nw	4"
1/2"	3 1/4"	nw	5 1/2"
3/4"	3 3/4"	nw	6"

MIN. EDGE DISTANCE : 12"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER

Metal Deck: Anchorage Diameter	Min. Effective Embedment	Concrete Type Min. F'c =3000 Psi	Minimum Concrete Measured Thickness
3/8"	2"	Nw Or Sand Lw	3 1/4"
1/2"	3 1/4"	Nw Or Sand Lw	5 1/2"
3/4"	3 3/4"	Nw Or Sand Lw	6"

MIN. EDGE DISTANCE : 12"

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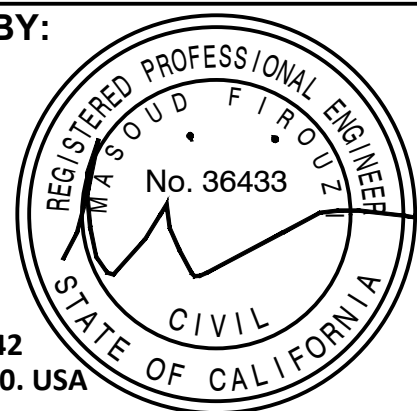
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SUMMARY OF MODEL WEIGHTS, REACTIONS, ANCHOR PROPERTIES AND BOLT PROPERTIES

KB-TZ2 IS AN ANCHOR TYPE MANUFACTURED BY HILTI WHICH IS DESIGNED TO PROVIDE IN SOG (SLAB ON GRADE) AND ES (ELEVATED SLABS.)

Page	Unit Number (N)	Equip. Weight (lbs)	Over-strength factor is included				SOG & ES Anchor Model	SOG & ES Anchor Size (in)	SOG & ES Anchor Effective Embedment (in)	Quantity of Anchor
			SOG (Per Bolt)		ES (Per Bolt)					
			Tension (ASD) (lbs)	Shear (ASD) (lbs)	Tension (ASD) (lbs)	Shear (ASD) (lbs)				
7	DS 500 CD	300	124	89	403	261	KB-TZ 2	0.375	2	8
8	DS 500 CDL	300	124	89	403	261	KB-TZ 2	0.375	2	8
9	DS 500 CL	283	117	84	380	247	KB-TZ 2	0.375	2	8
10	DS 610_1 D	630	355	76	1027	221	KB-TZ 2	0.5	3.25	10
11	DS 610_2 D	713	401	86	1162	250	KB-TZ 2	0.5	3.25	10
12	DS 1000 1S	1506	444	151	1364	440	KB-TZ 2	0.5	3.25	12
13	DS 1000 2S	1678	406	142	1299	411	KB-TZ 2	0.5	3.25	12
14	DS 1000 3S	1865	406	142	1299	411	KB-TZ 2	0.5	3.25	12
15	DS 1000	1285	444	151	1364	440	KB-TZ 2	0.5	3.25	12
15-1	DS 1000 N	1290	558	134	1767	382	KB-TZ 2	0.5	3.25	12
15-2	DS 1000 N1S	1500	718	156	2238	444	KB-TZ 2	0.5	3.25	12
15-3	DS 1000 N2S	1700	1011	177	3062	503	KB-TZ 2	0.5	3.25	12
16	ED100/2 Frontal Support	717	496	72	1400	209	KB-TZ 2	0.5	3.25	8
17	ED100/2 Lateral Support	717	384	72	1109	209	KB-TZ 2	0.5	3.25	8
18	ED250/1 Frontal Support	954	423	96	1247	279	KB-TZ 2	0.5	3.25	8
19	ED250/1 Lateral Support	954	479	95	1388	279	KB-TZ 2	0.5	3.25	8
20	ED250/2 Frontal Support	990	451	100	1331	290	KB-TZ 2	0.5	3.25	8
21	ED250/2 Lateral Support	990	496	100	1436	290	KB-TZ 2	0.5	3.25	12
22	ED250/3 Frontal Support	1600	448	122	1328	352	KB-TZ 2	0.5	3.25	12
23	ED250/3 Lateral Support	1600	512	97	1458	281	KB-TZ 2	0.5	3.25	12
24	ED250/4 Frontal Support	1693	473	129	1401	373	KB-TZ 2	0.5	3.25	12
25	ED250/4 Lateral Support	1693	542	103	1542	298	KB-TZ 2	0.5	3.25	12
26	ED100/1 Frontal Support	671	464	67	1309	196	KB-TZ 2	0.5	3.25	8
27	ED100/1 Lateral Support	671	359	67	1038	196	KB-TZ 2	0.5	3.25	8
28	ED150/1 Frontal Support	1029	444	103	1317	301	KB-TZ 2	0.5	3.25	8
29	ED150/1 Lateral Support	1029	492	103	1430	301	KB-TZ 2	0.5	3.25	8
30	ED150/2 Frontal Support	1075	464	108	1374	315	KB-TZ 2	0.5	3.25	8
31	ED150/2 Lateral Support	1075	510	108	1483	315	KB-TZ 2	0.5	3.25	8
32	ID 300/1 Frontal Support	615	425	62	1199	180	KB-TZ 2	0.5	3.25	8
33	ID 300/1 Lateral Support	615	329	62	951	180	KB-TZ 2	0.5	3.25	8
34	ID 300/2 Frontal Support	669	463	67	1307	196	KB-TZ 2	0.5	3.25	8
35	ID 300/2 Lateral Support	669	358	67	1035	196	KB-TZ 2	0.5	3.25	8
36	LC 20/1 CHAMBER	2484	477	215	1570	624	KB-TZ 2	0.75	3.75	14
37	LC 20/2 CHAMBER	2715	465	235	1568	682	KB-TZ 2	0.75	3.75	14
38	LC 80/2 CHAMBER	4421	500	230	1804	654	KB-TZ 2	0.75	3.75	20
39	LC 80/3 CHAMBER	5111	369	165	1153	475	KB-TZ 2	0.75	3.75	33
40	US 100 XL	729	319	217	1010	637	KB-TZ 2	0.5	3.25	8
41	US 900	2527	537	202	1681	582	KB-TZ 2	0.75	3.75	12
42	US 1000	2643	537	202	1681	582	KB-TZ 2	1.0	4.0	12
43	LC 20/1 & LC 20/2 TANKS	2083	952	129	2675	369	KB-TZ 2	0.75	3.75	20
44	LC 80/2 & LC 80/3 TANKS	3308	791	168	2375	486	KB-TZ 2	0.75	3.75	24
45	US 100	504	319	217	1010	637	KB-TZ 2	0.5	3.75	8

▲ DEC 10-2024

(GENERAL NOTES: PAGES 6 OF 6)

EQUIPMENT LIST FOR OPM-0517-19: ▲ DECEMBER 10-2024

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

▲ **3 EQUIPMENT ADDED: DS 1000 N, DS 1000 N1S, DS 1000 N2S**



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PH.+39 04237561

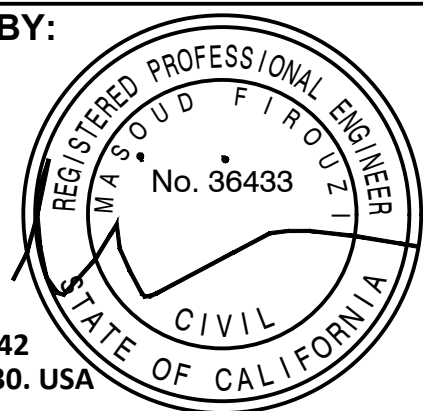
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STRUCTURAL DESIGN BY:

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619.997.9997



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▲ EQUIP. ADD.
DATE
DEC 10
2024

**STEELCO WASHER
DISINFECTOR MODEL
N° DS 500 CD**

**WEIGHT= 300 POUNDS
G.C.= GRAVITY CENTER
M.C.= MASS CENTER**

NOTE 1

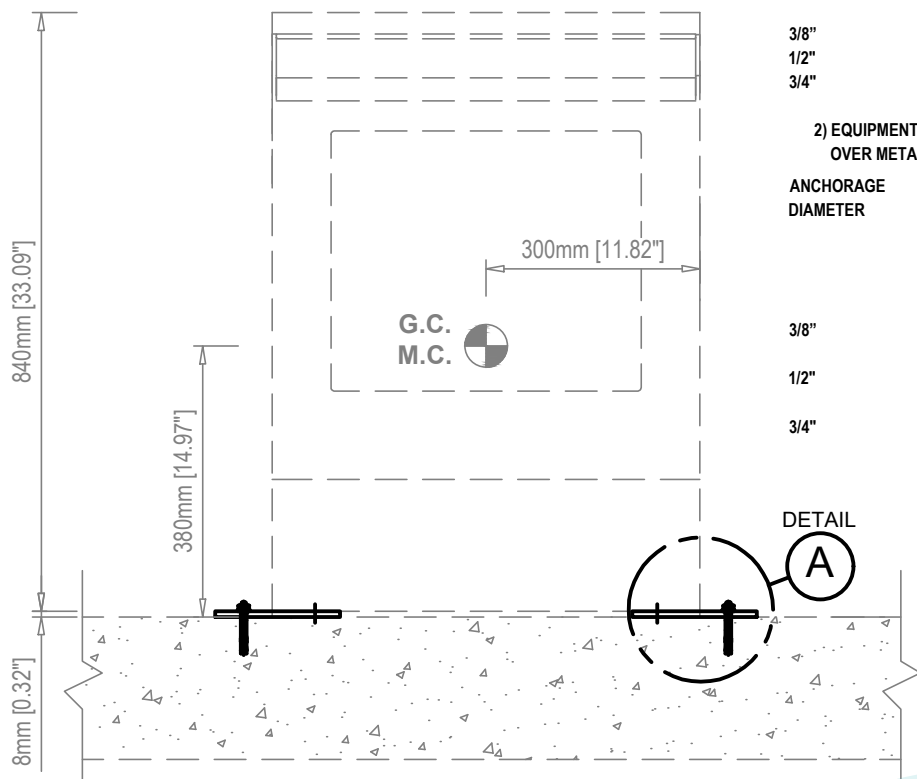
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

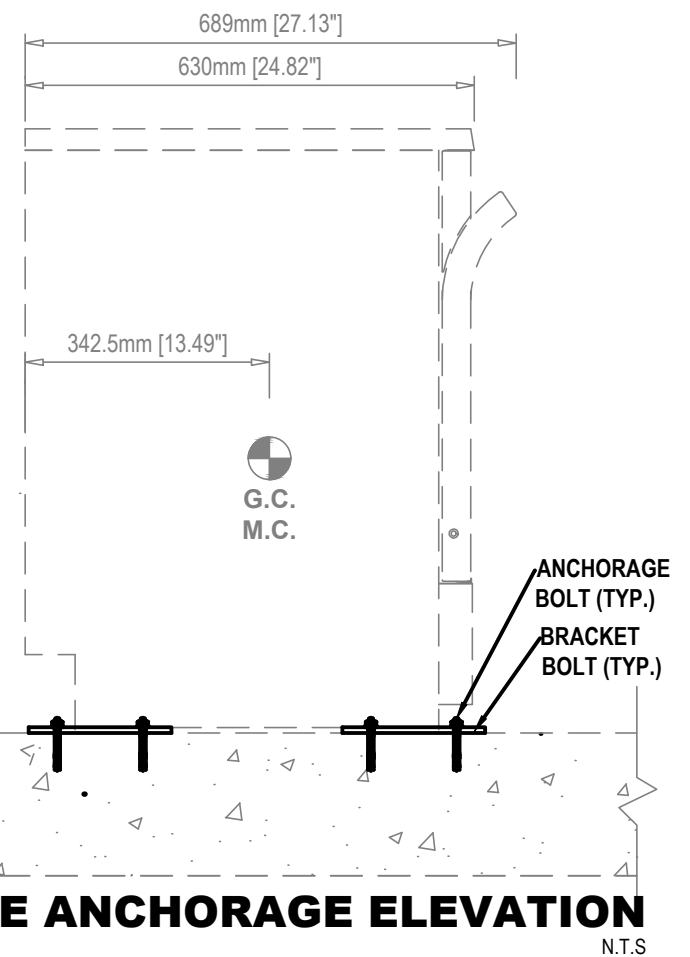
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"



FRONT ANCHORAGE ELEVATION

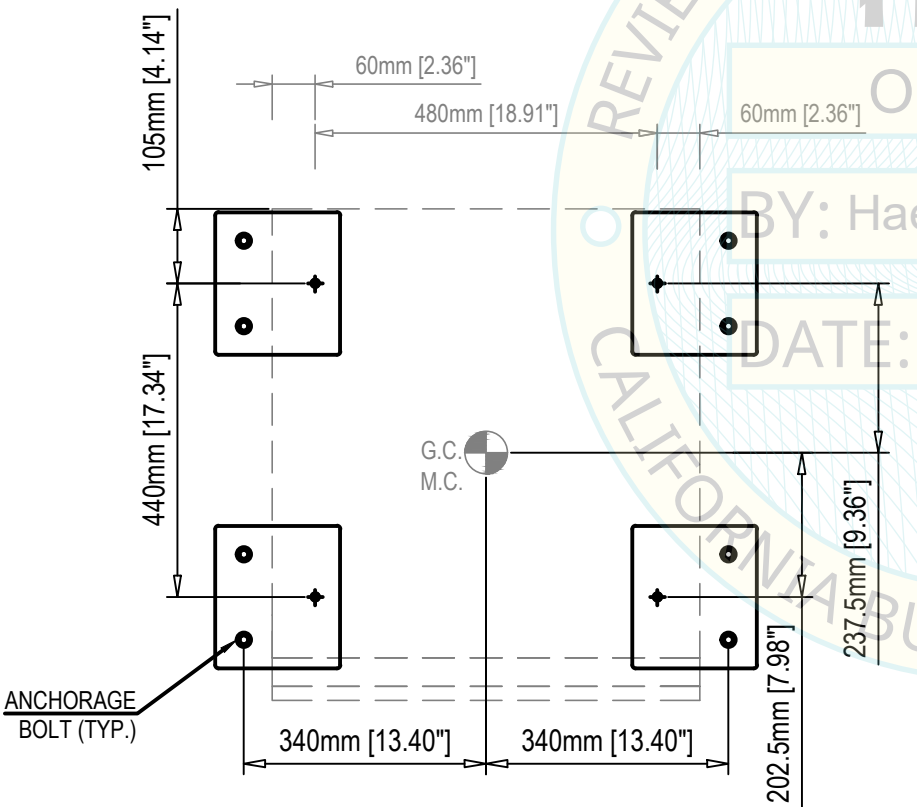
N.T.S

(SEE NOTE 1)



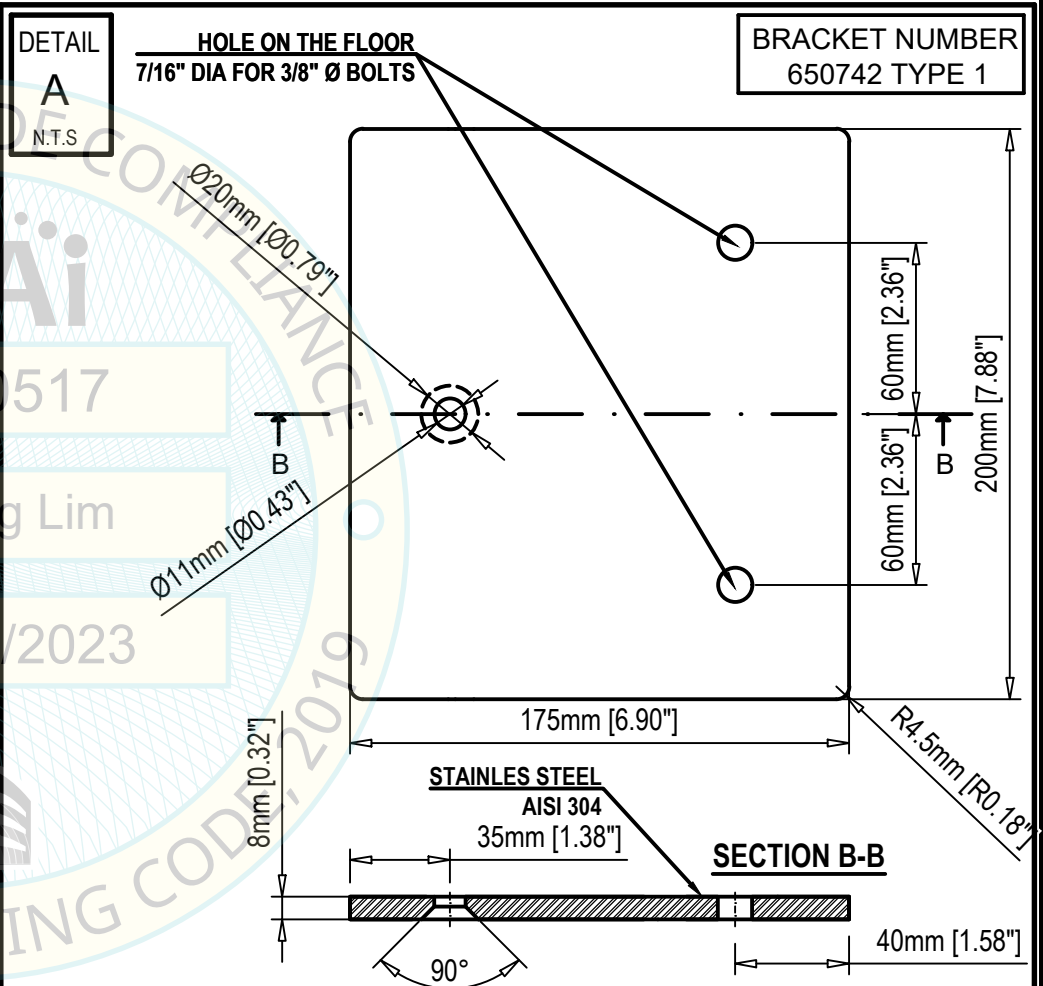
SIDE ANCHORAGE ELEVATION

N.T.S



ANCHORAGE LAYOUT @ BASE

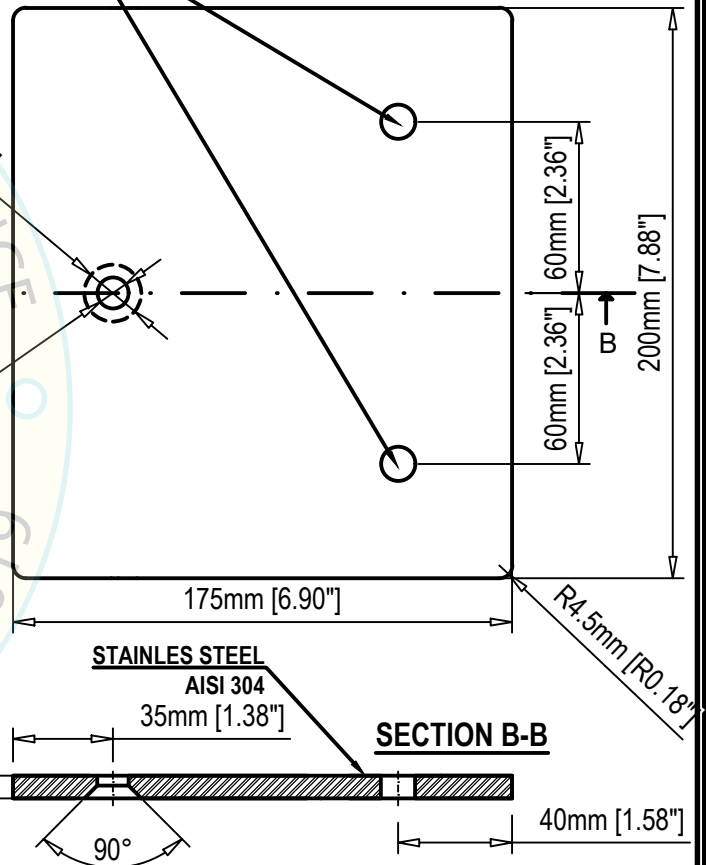
N.T.S



DETAIL A

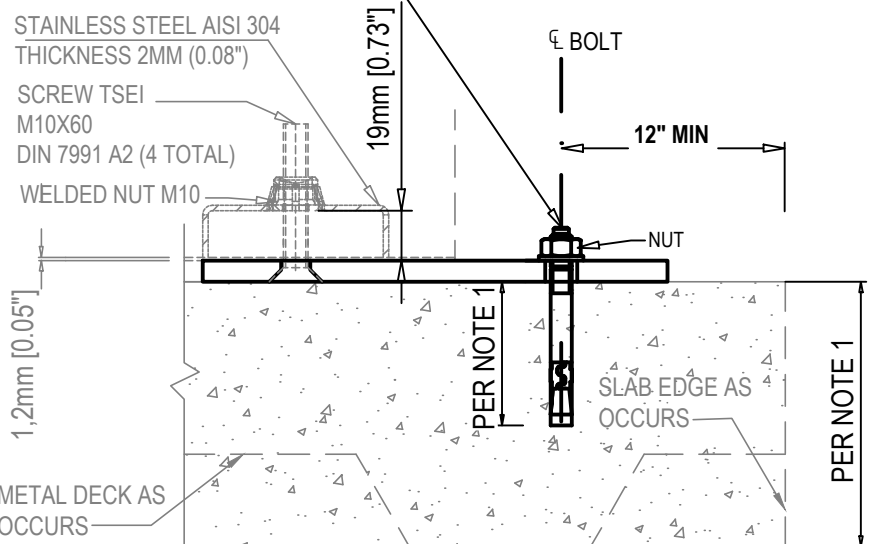
N.T.S

**BRACKET NUMBER
650742 TYPE 1**



SECTION B-B

ANCHOR BOLTS HILTI KB-TZ2
(8 TOTAL): 3/8" DIA



**Steelco
DS 500 CD**

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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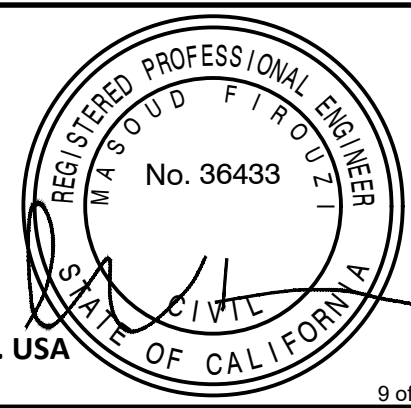
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**STEELCO WASHER
DISINFECTOR MODEL
N° DS 500 CDL**

**WEIGHT= 300 POUNDS
G.C.= GRAVITY CENTER
M.C.= MASS CENTER**

NOTE 1

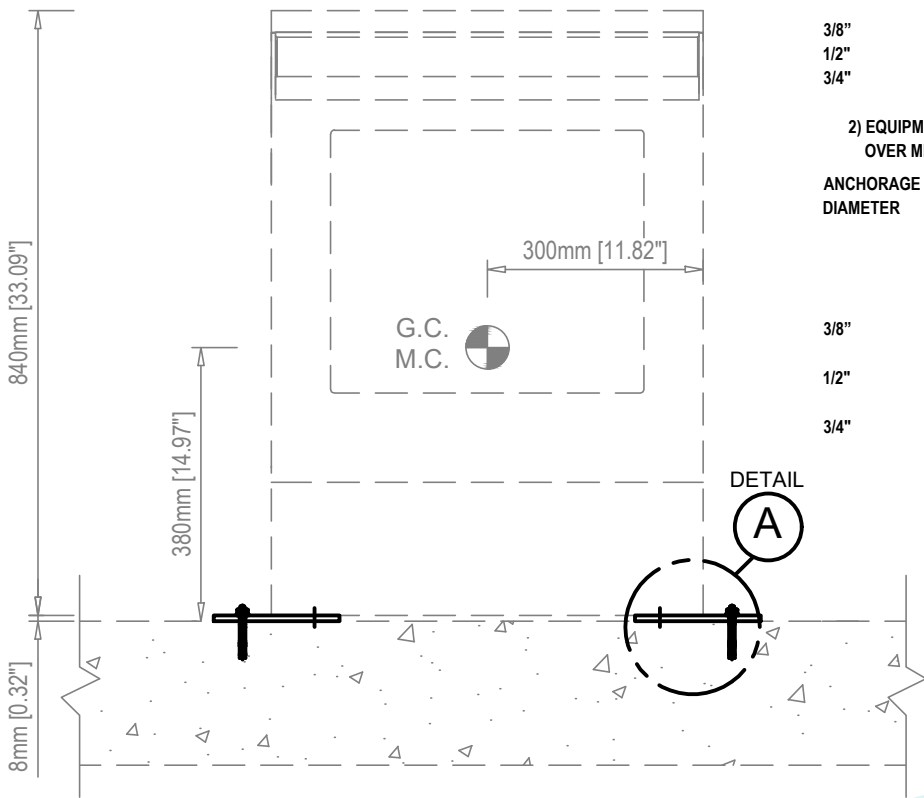
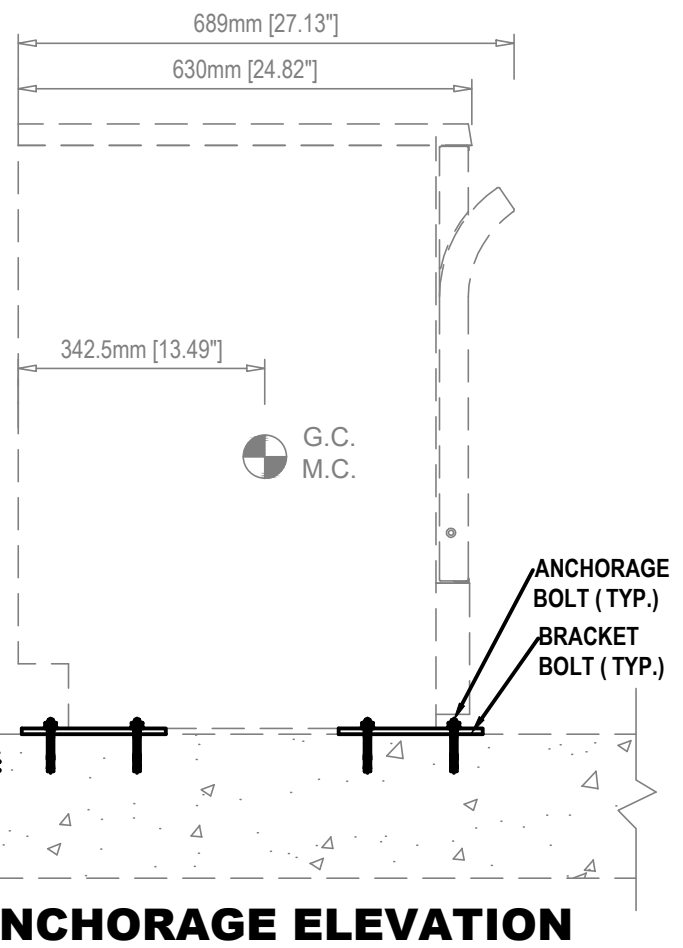
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"



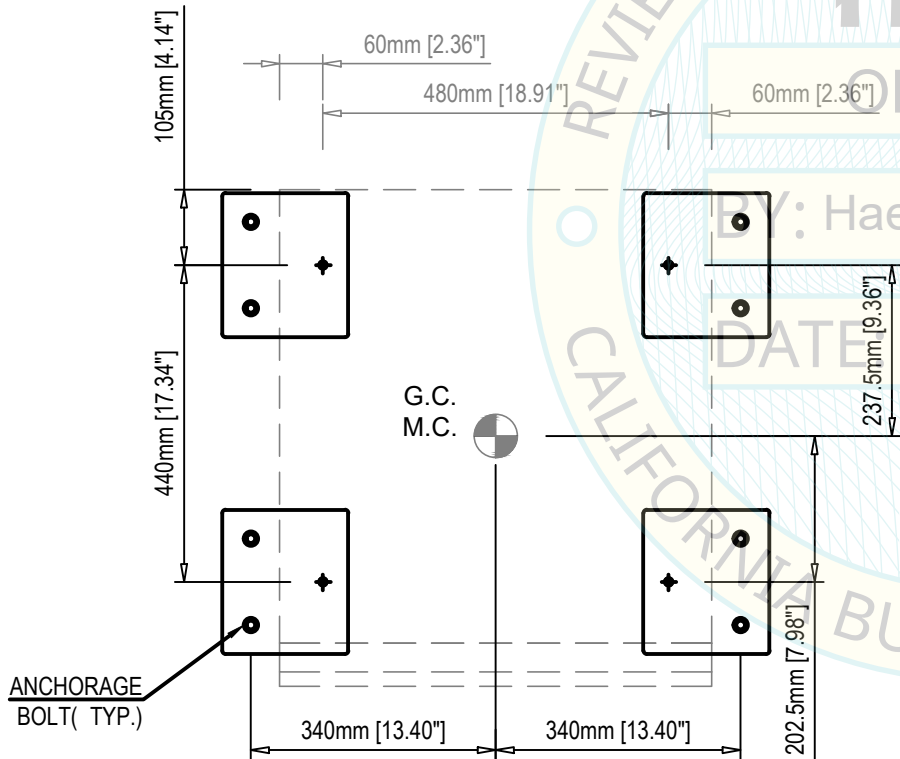
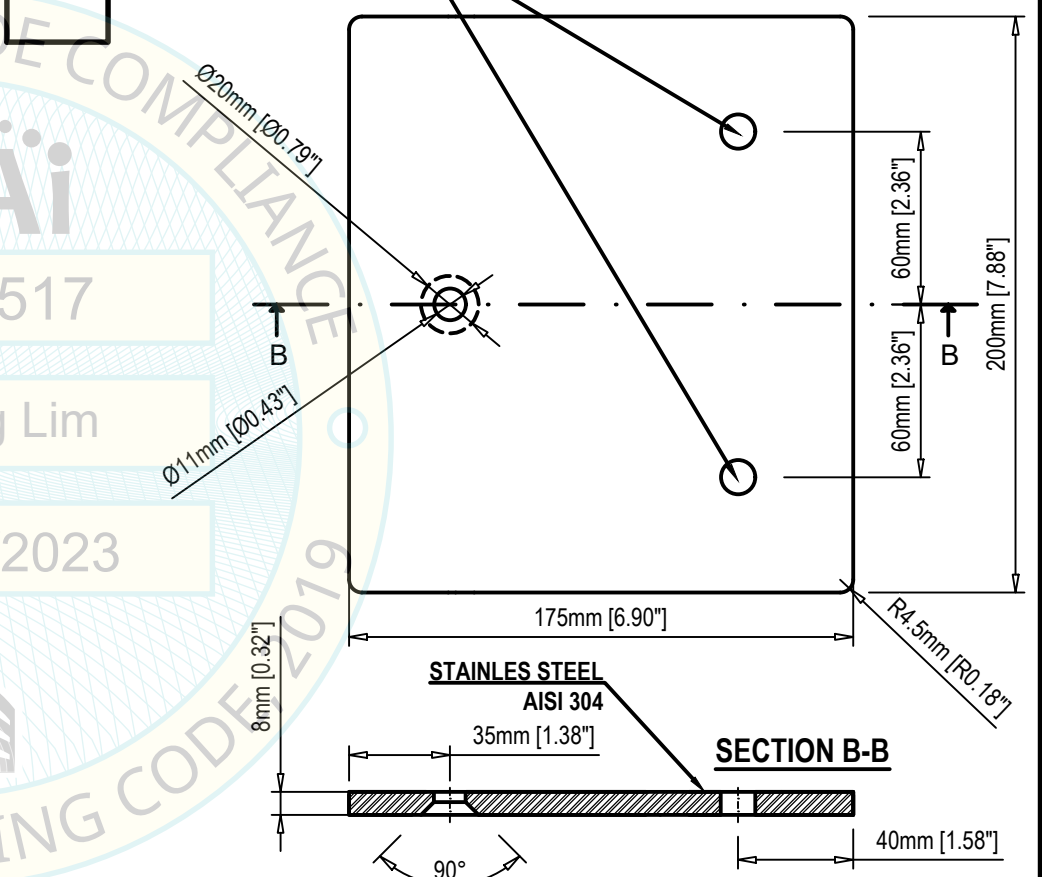
FRONT ANCHORAGE ELEVATION

SIDE ANCHORAGE ELEVATION

DETAIL A

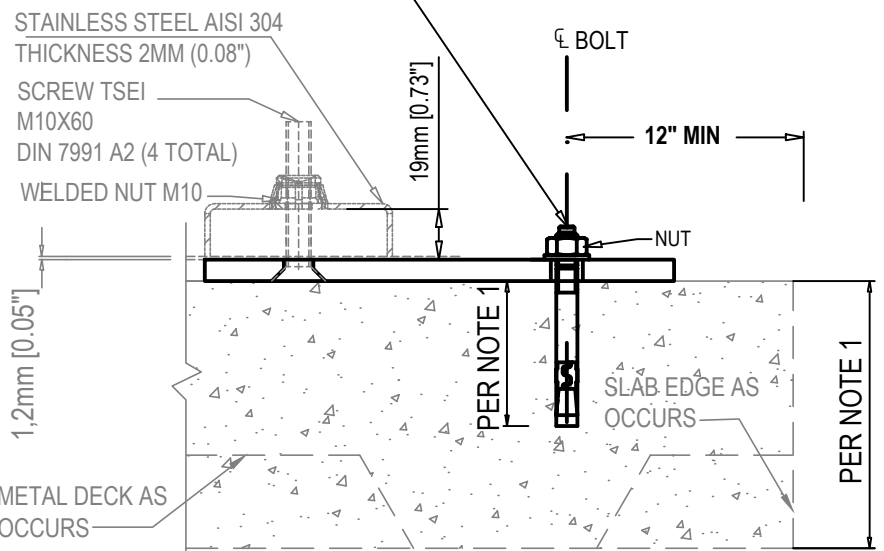
HOLE ON THE FLOOR
7/16" DIA FOR 3/8" Ø BOLTS

BRACKET NUMBER
650742 TYPE 1



ANCHORAGE LAYOUT @ BASE

ANCHOR BOLTS HILTI KB-TZ2
(8 TOTAL): 3/8" DIA



Steelco
DS 500 CDL

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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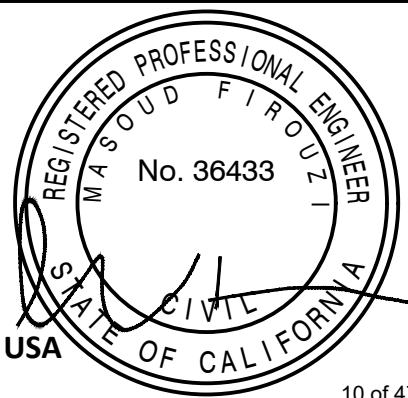
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**STEELCO WASHER
DISINFECTOR MODEL
N° DS 500 CL**

**WEIGHT= 283 POUNDS
G.C.= Gravity center
M.C.= Mass center**

NOTE 1

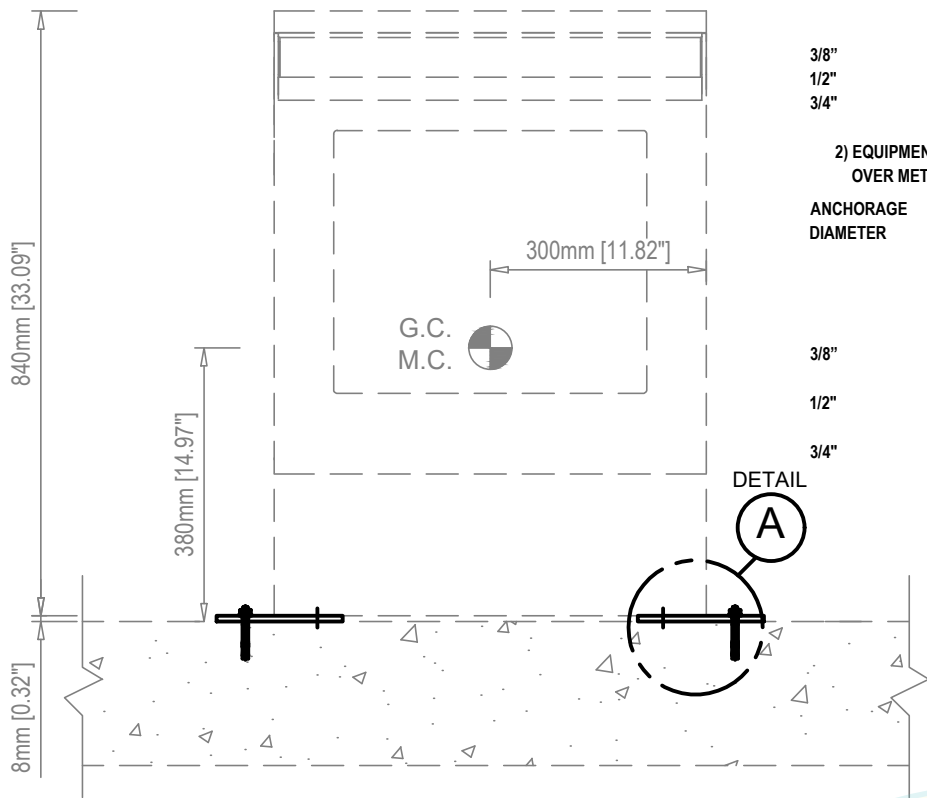
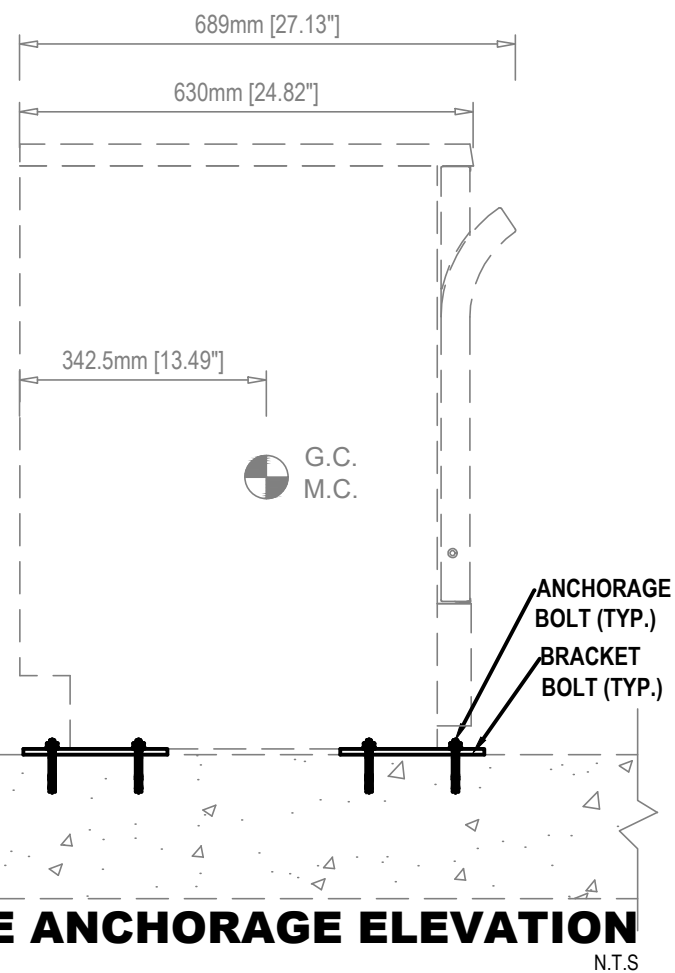
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

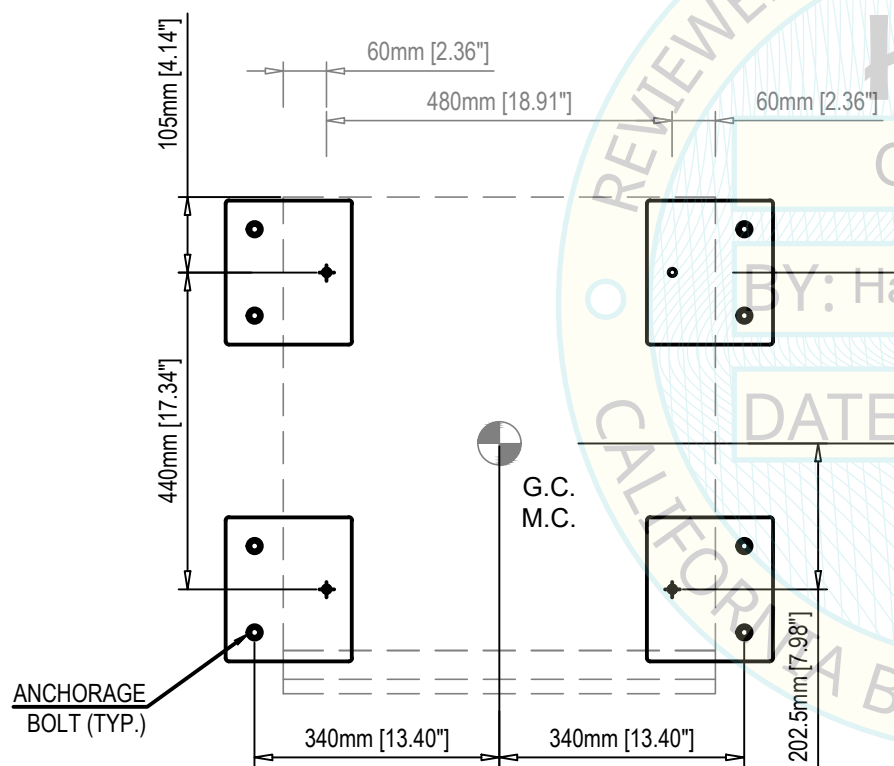
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"



FRONT ANCHORAGE ELEVATION
N.T.S

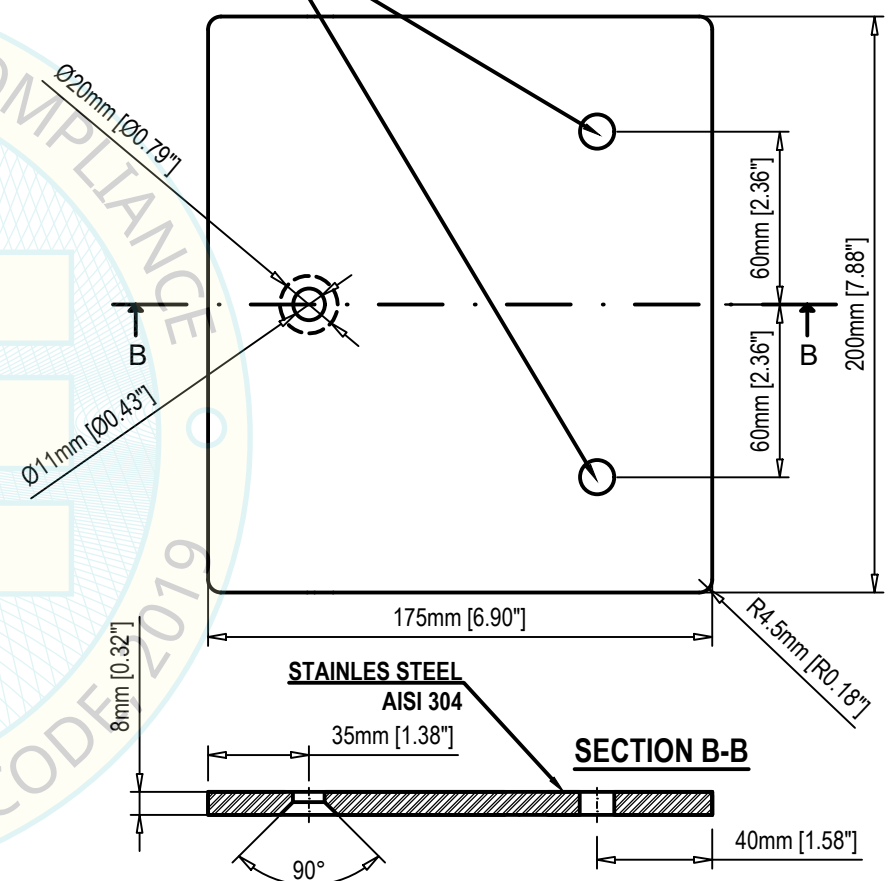


ANCHORAGE LAYOUT @ BASE
N.T.S

DETAIL A
N.T.S

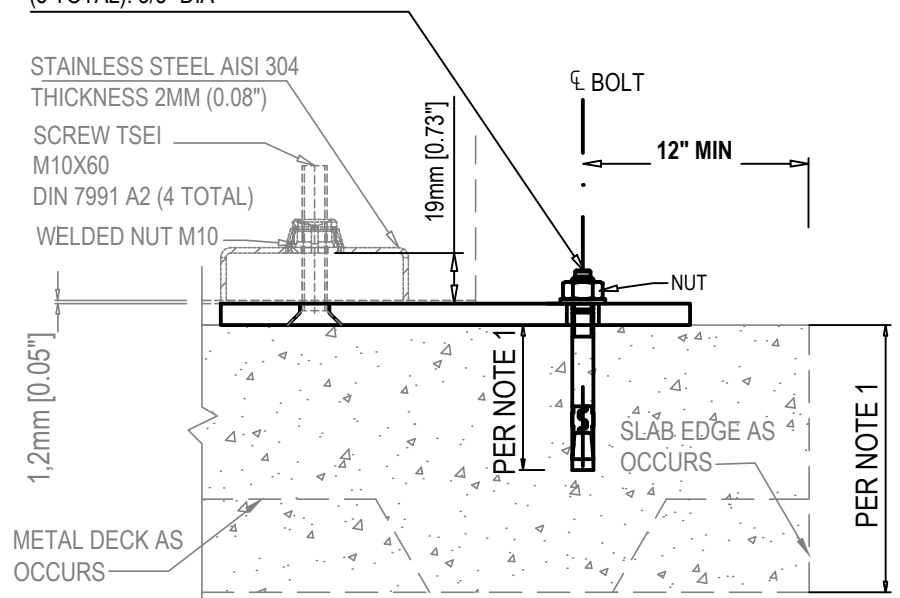
HOLE ON THE FLOOR
7/16" DIA FOR 3/8" Ø BOLTS

BRACKET NUMBER
650742 TYPE 1



ANCHOR BOLTS HILTI KB-TZ2
(8 TOTAL): 3/8" DIA

STAINLESS STEEL AISI 304
THICKNESS 2MM (0.08")
SCREW TSEI
M10X60
DIN 7991 A2 (4 TOTAL)
WELDED NUT M10



Steelco
DS 500 CL

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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**STEELCO WASHER
DISINFECTOR MODEL
N° DS 610/1 D**

WEIGHT= 630 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

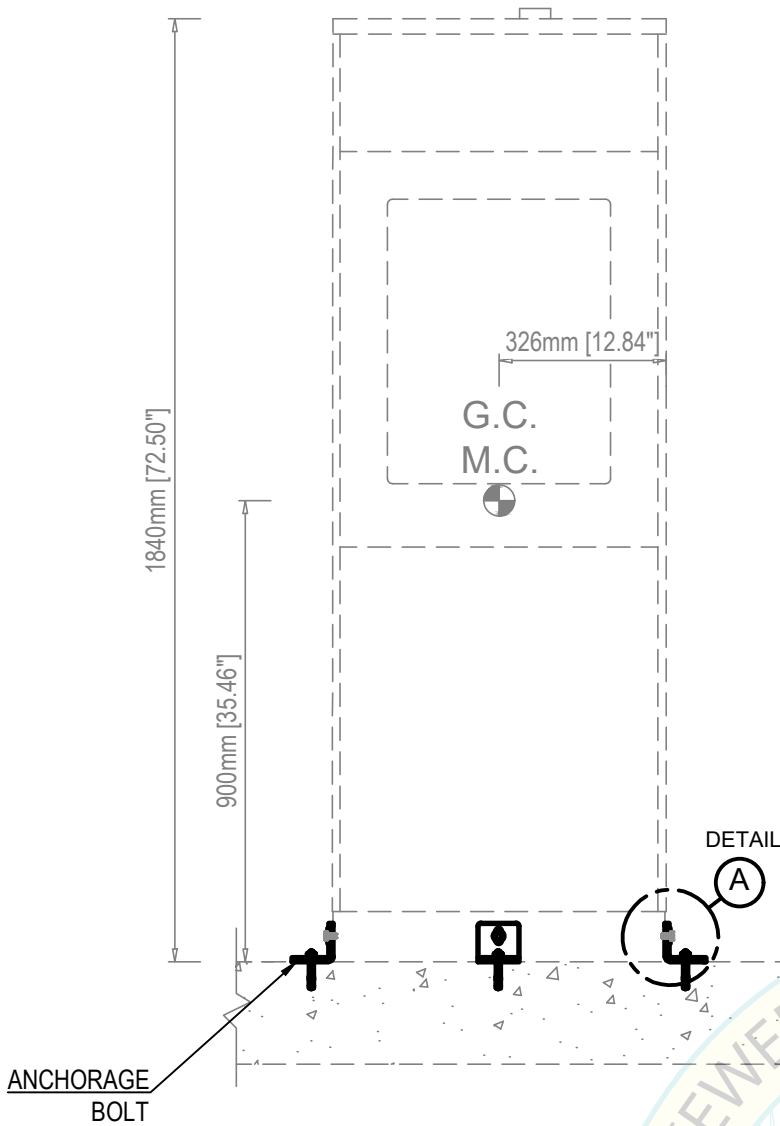
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

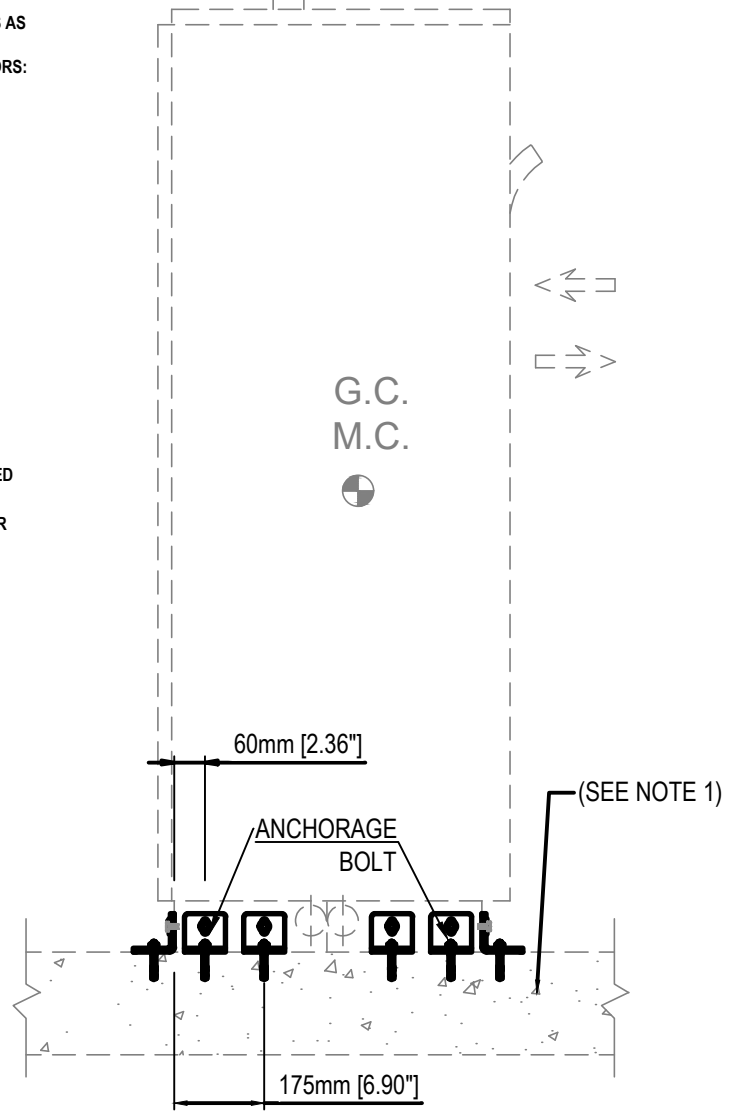
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

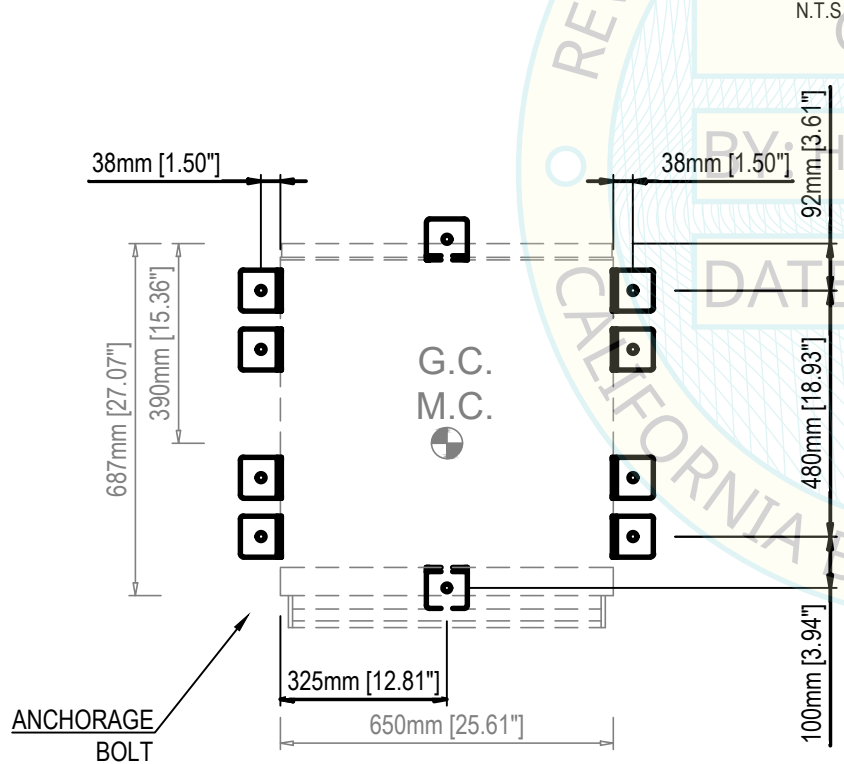
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16§J5



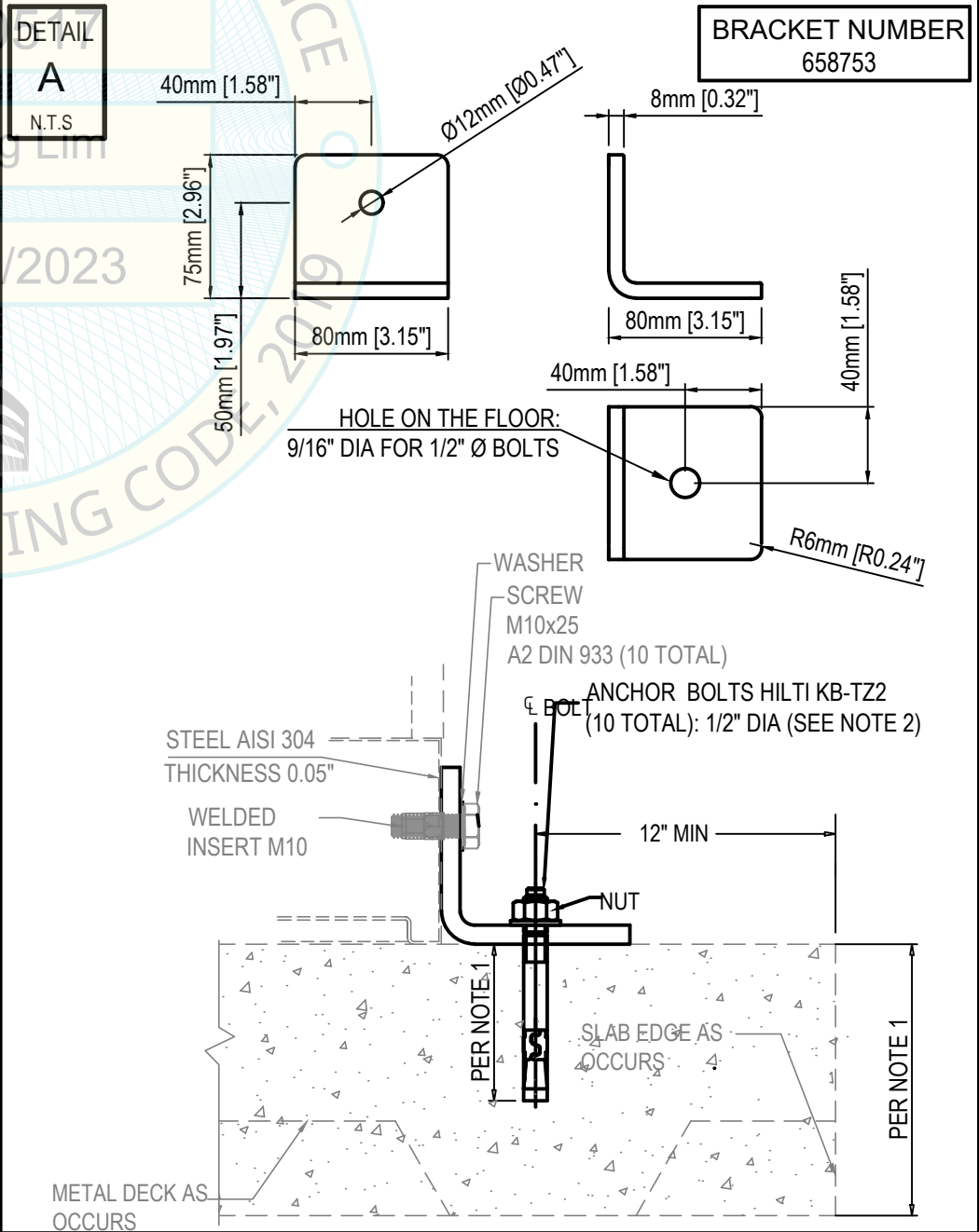
FRONT ANCHORAGE ELEVATION N.T.S.



SIDE ANCHORAGE ELEVATION N.T.S.



ANCHORAGE LAYOUT @ BASE N.T.S.



Steelco
DS 610/1 D

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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STRUCTURAL DESIGN BY:

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**5965 VILLAGE WAY, STE 105
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619.997.9997**



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2023

**STEELCO WASHER
DISINFECTOR MODEL
N° DS 610/2 D**

WEIGHT= 713 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

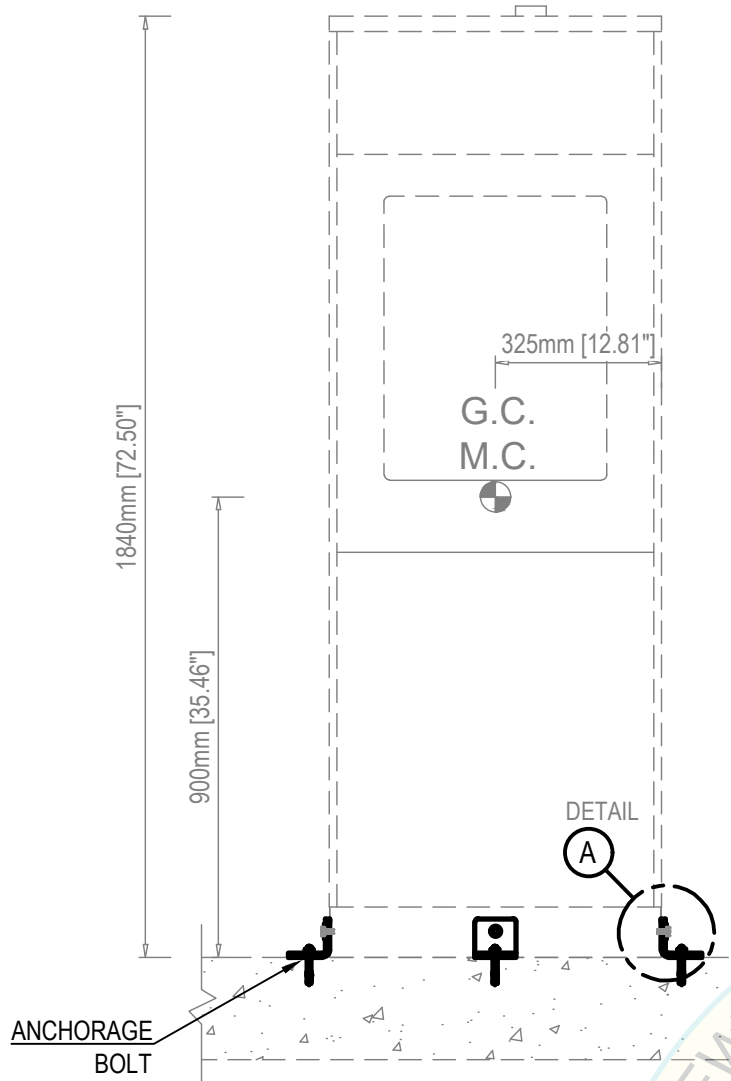
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

PROVIDE SHIMS (FILLERS) $\leq \frac{1}{4}$" WITHOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16 § J5

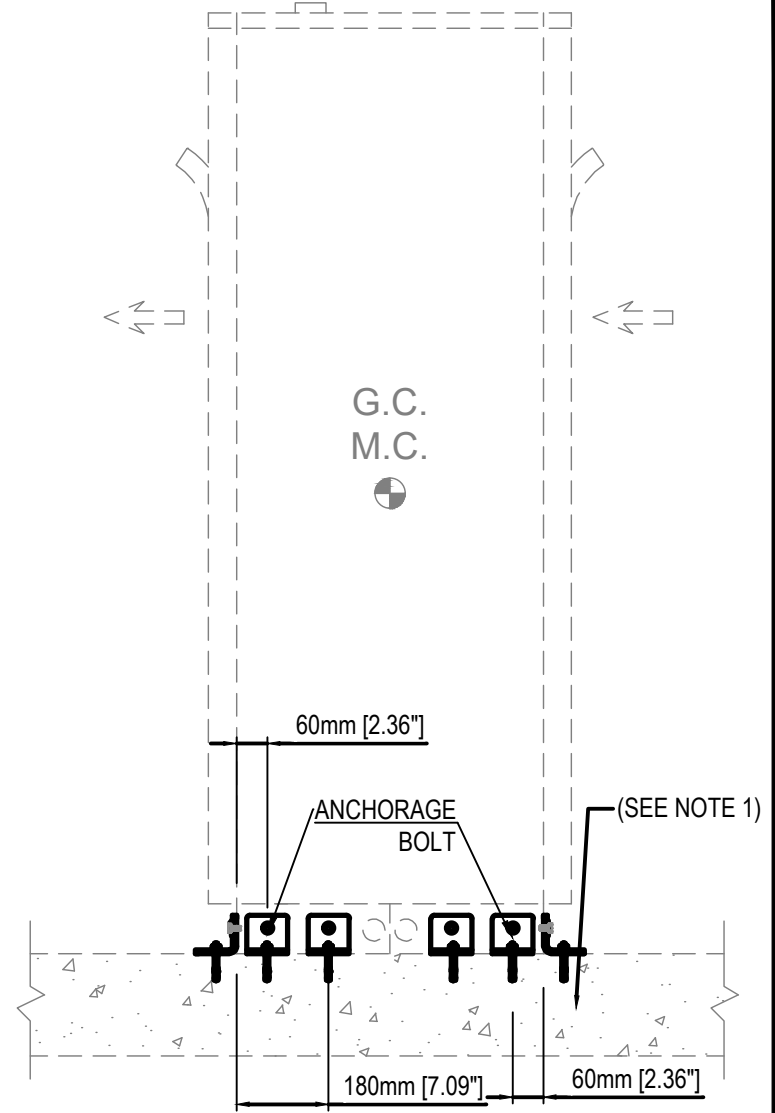


FRONT ANCHORAGE ELEVATION

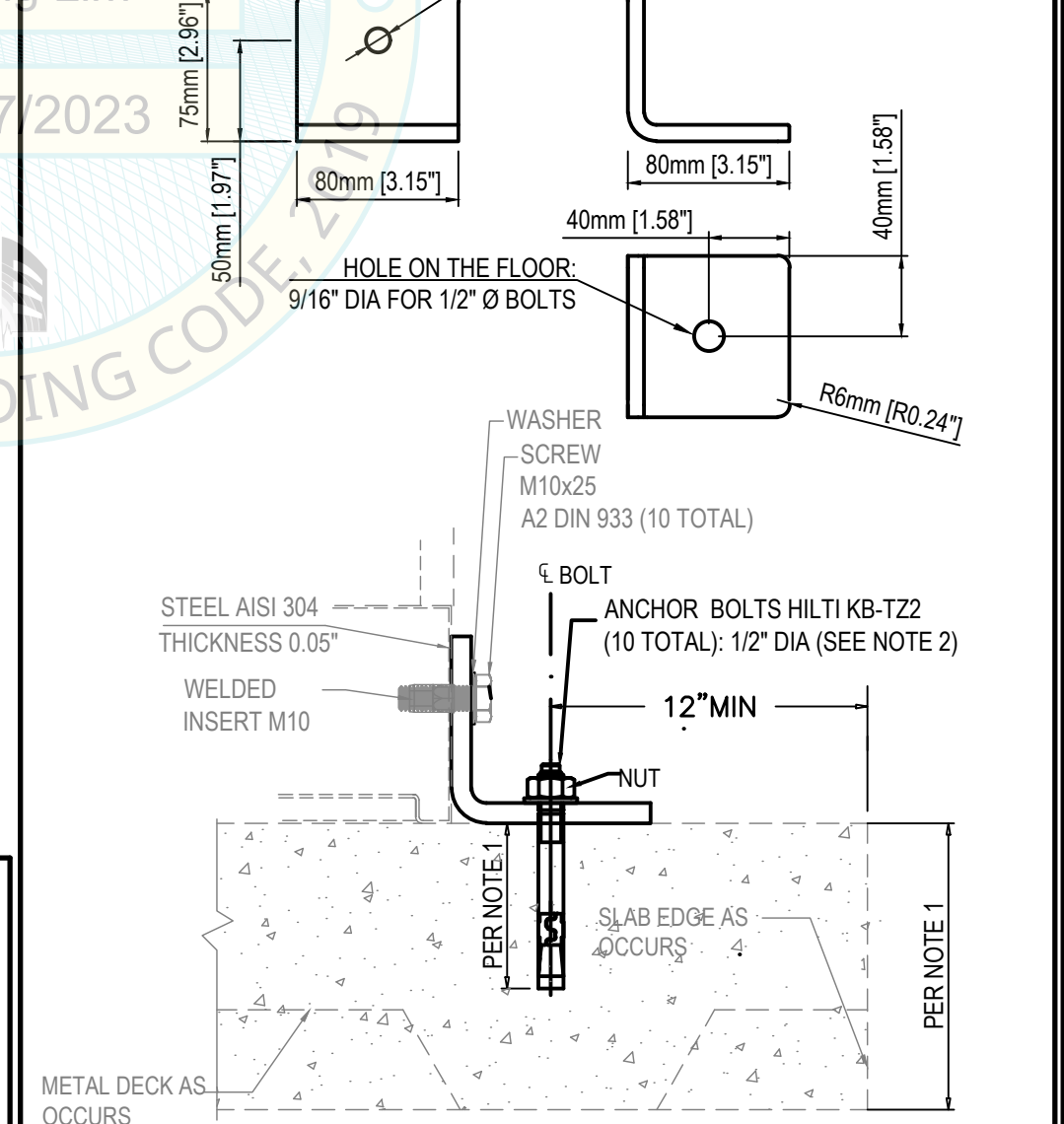
N.T.S

SIDE ANCHORAGE ELEVATION

N.T.S



N.T.S



ANCHORAGE LAYOUT @ BASE

N.T.S

Steelco
DS 610/2 D

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

Steelco
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VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
PH.+39 04237561

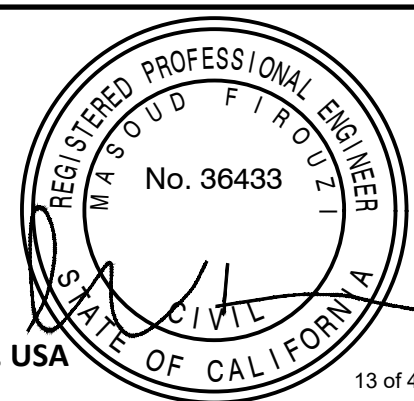
OPM 0517-19
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STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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**STEELCO WASHER
DISINFECTORS MODEL
N° DS 1000 1S**

WEIGHT= 1506 POUNDS
G.C.= Gravity center
M.C.= Mass center

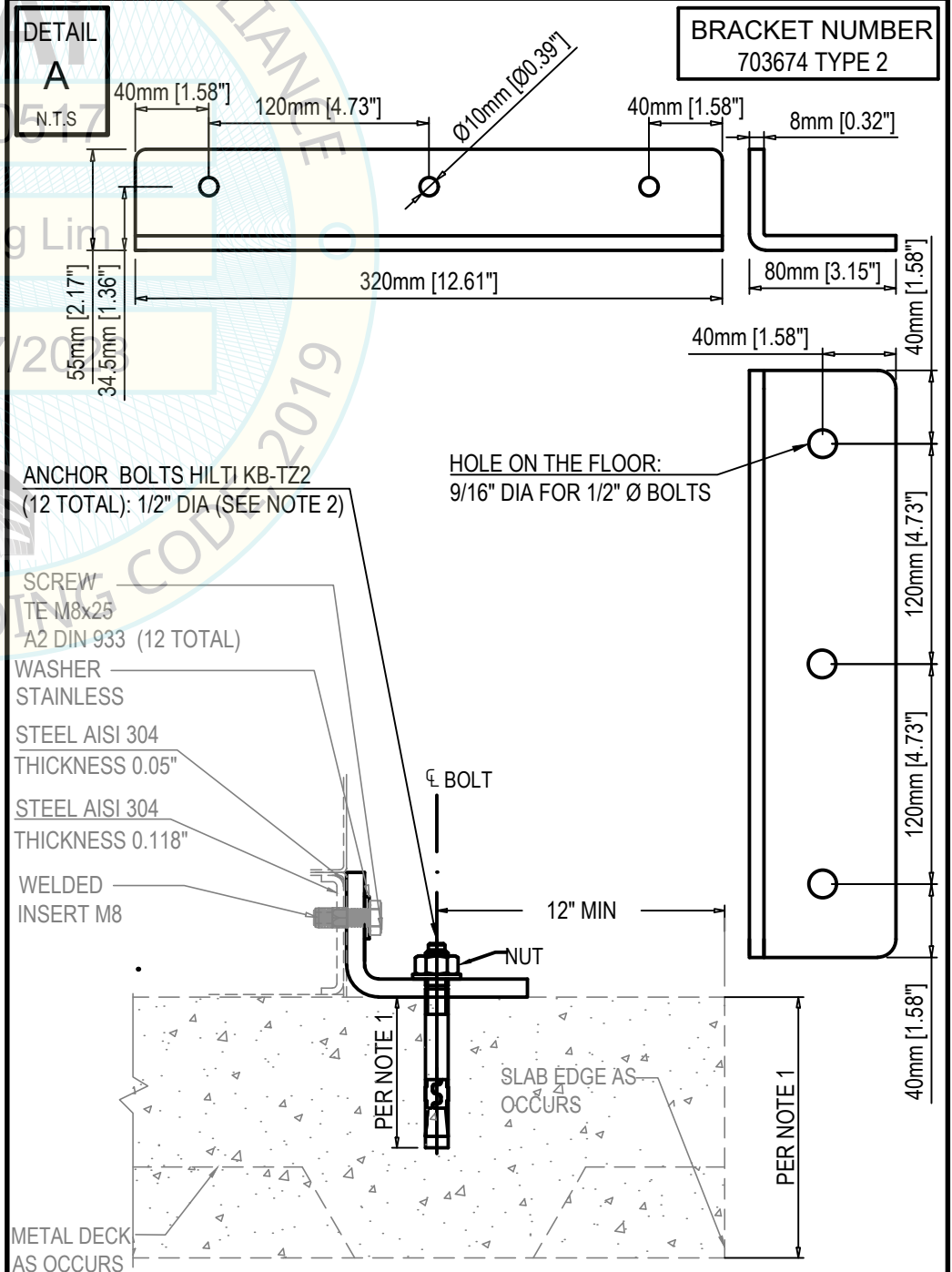
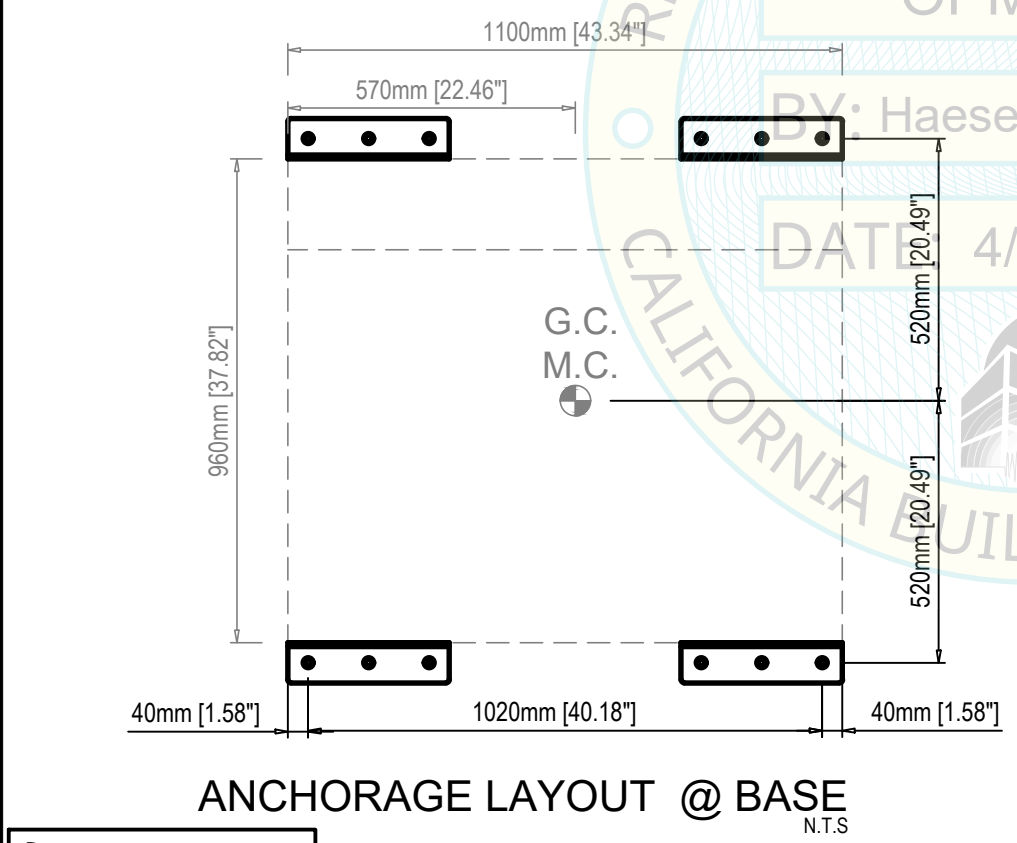
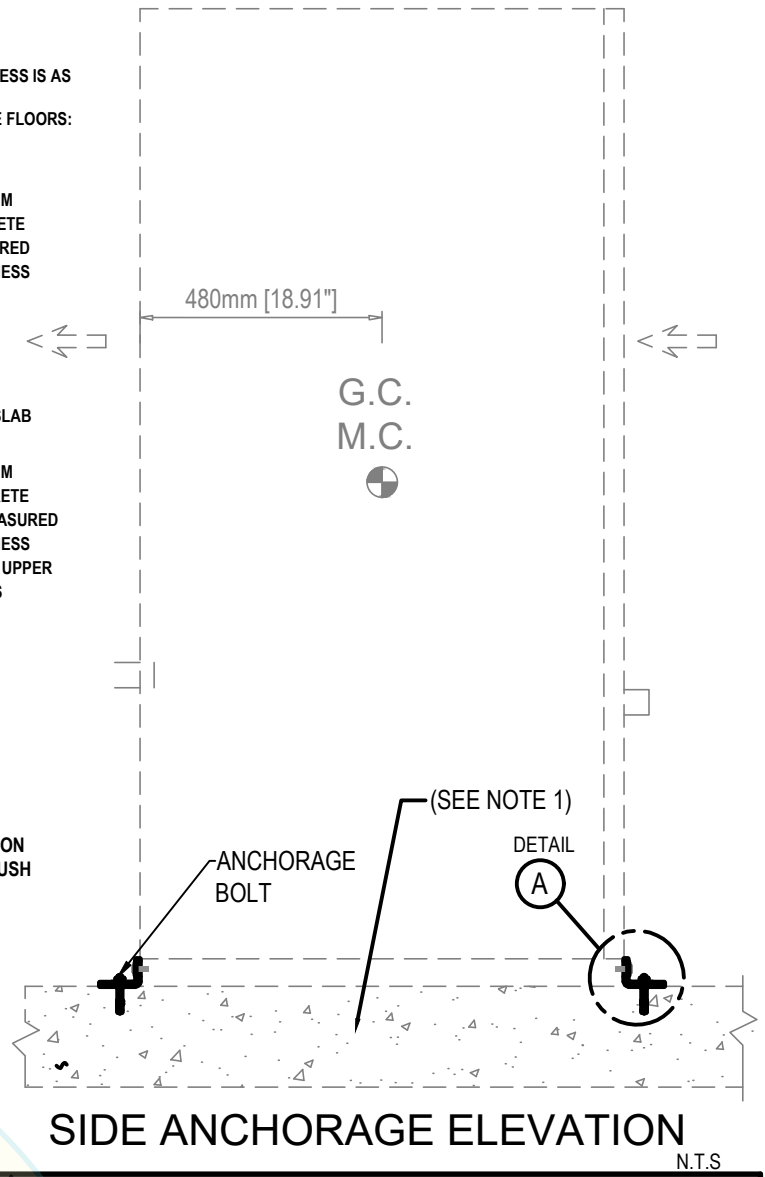
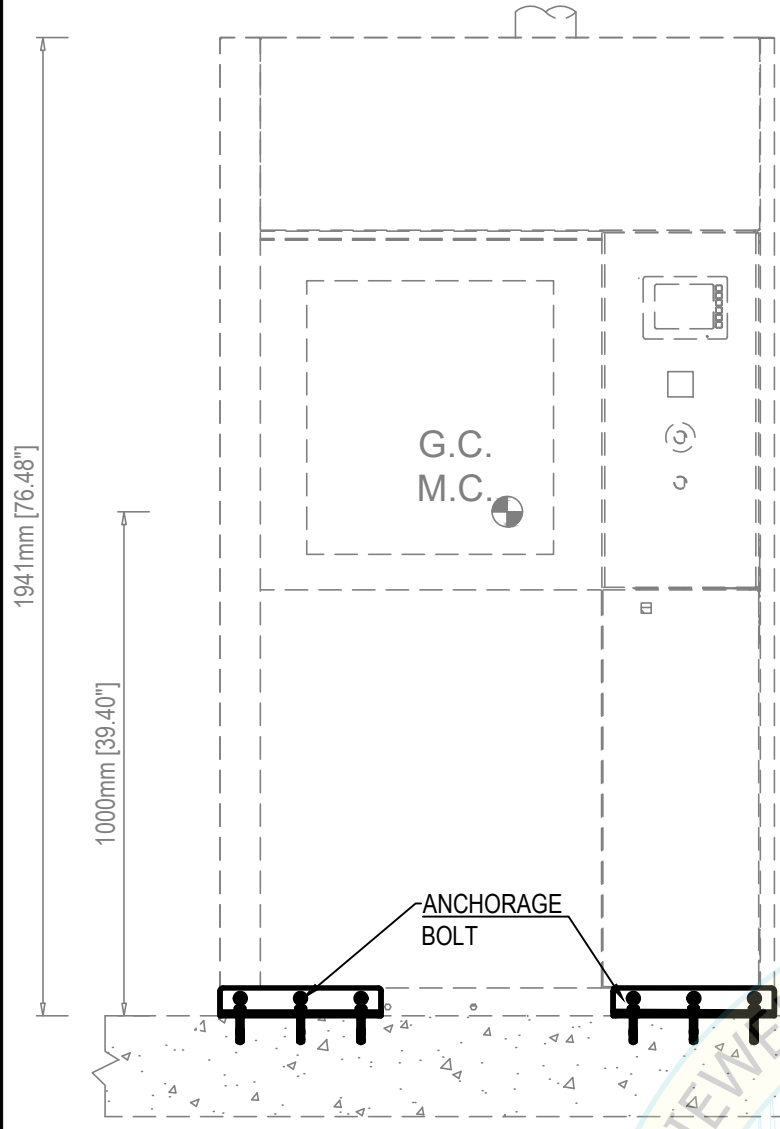
NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:
1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16§J5



Steelco
DS 1000 1S

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

Steelco
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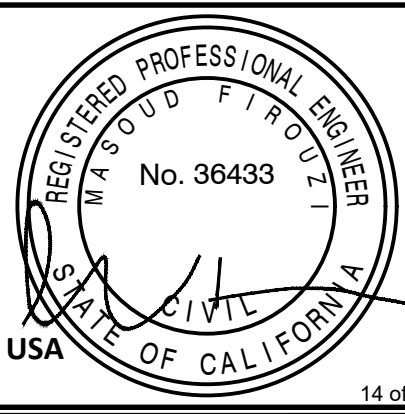
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VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
PH.+39 04237561

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619.997.9997



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APRIL 06
2023

**STEELCO WASHER
DISINFECTOR MODEL
N° DS 1000 2S**

WEIGHT= 1678 POUNDS
G.C.= Gravity center
M.C.= Mass center

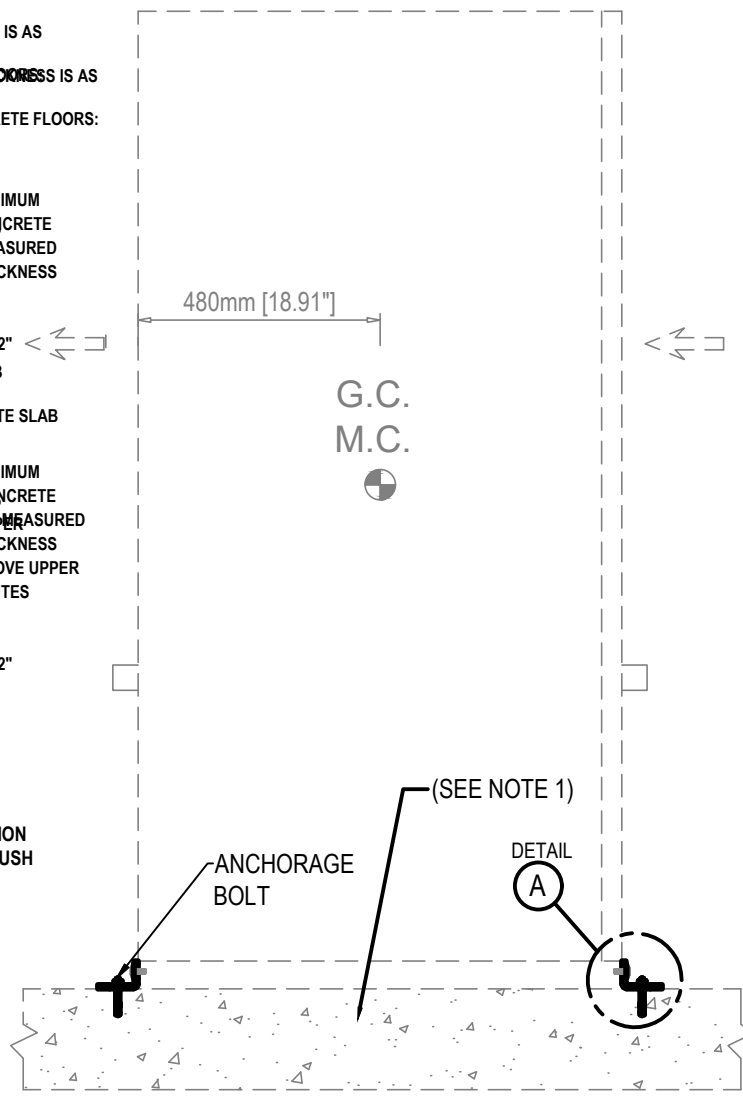
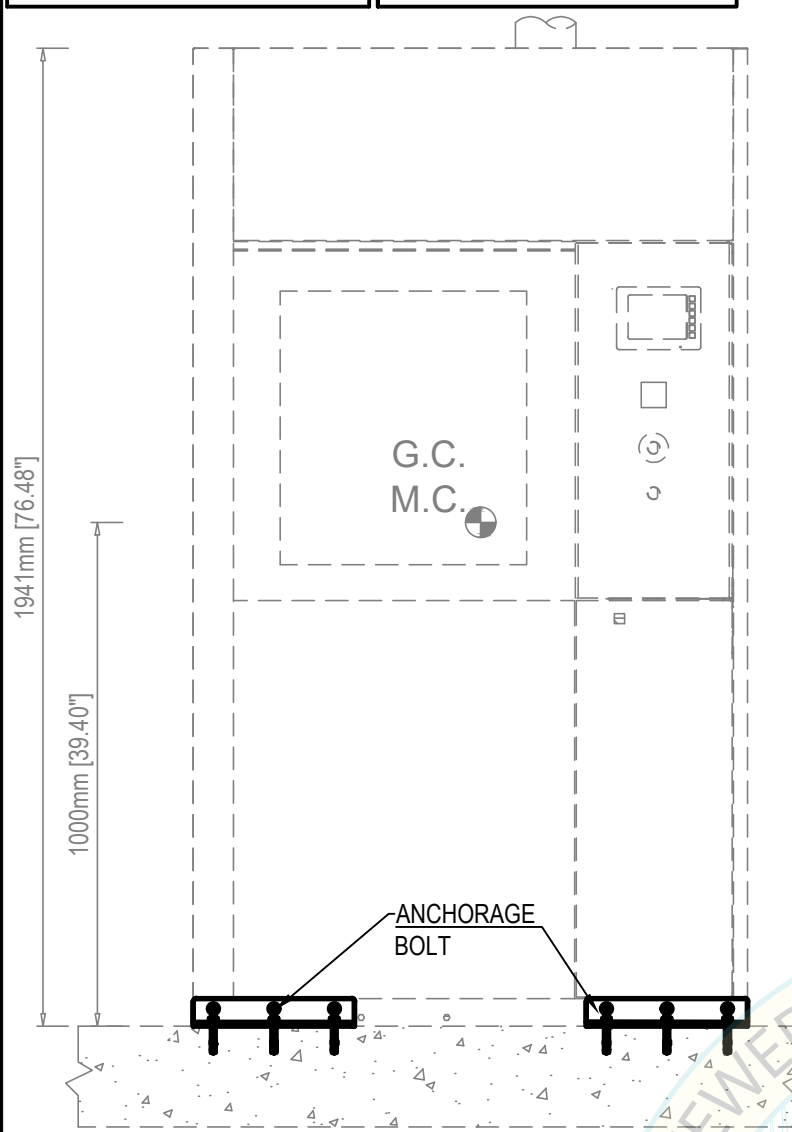
NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:
1) EQUIPMENT ATTACHED TO REINFORCED CONCRETE FLOOR:
- ELEVATED SLABS: 8" MIN
- SLAB ON GRADE: ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
ELEVATED SLABS: 8" MIN
CONCRETE MINIMUM THICKNESS MEASURED ABOVE UPPER FLUTES

ANCHORAGE DIAMETER	BOLT DIAMETER	CONCRETE TYPE	MINIMUM CONCRETE THICKNESS
3/8"	2"	NW	4"
1/2"	3/8"	NW	5 1/2"
3/4"	3/8"	NW	6"
1/2"	3/4"	NW	5 1/2"

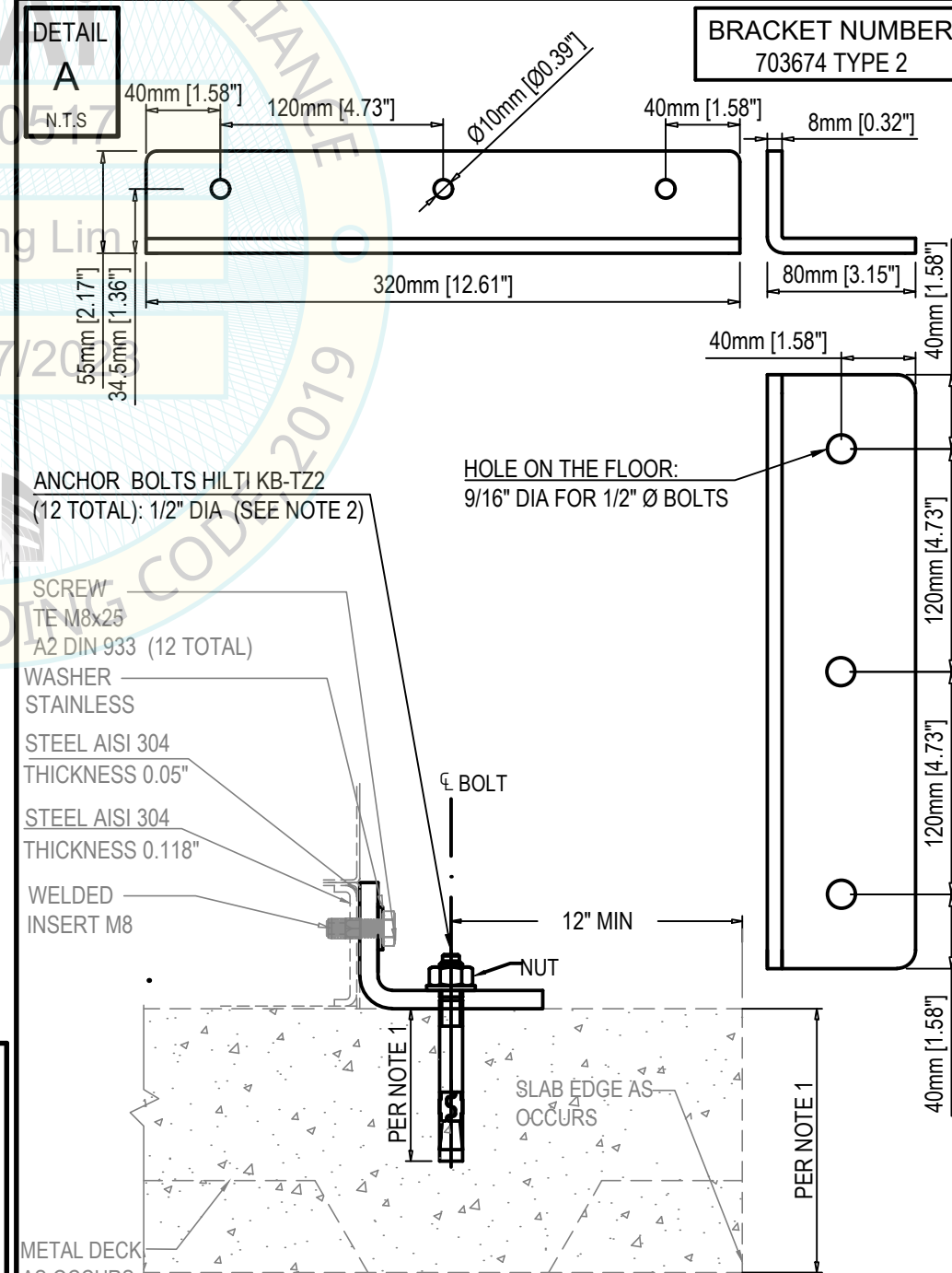
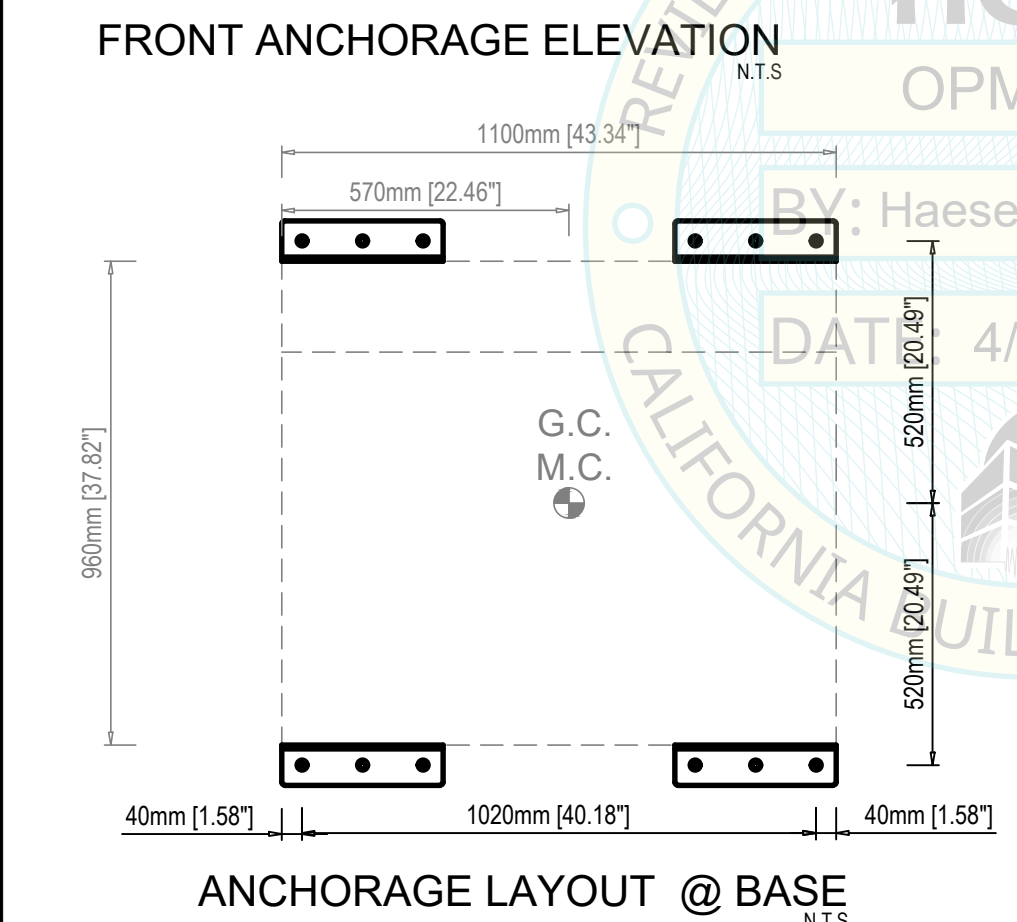
2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:
2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:
CONCRETE MINIMUM THICKNESS MEASURED ABOVE UPPER FLUTES

ANCHORAGE DIAMETER	BOLT DIAMETER	CONCRETE TYPE	MINIMUM CONCRETE THICKNESS
3/8"	2"	NW or SAND LW	4" ABOVE UPPER FLUTES
1/2"	3/8"	NW or SAND LW	5 1/2" ABOVE UPPER FLUTES
3/4"	1/2"	NW or SAND LW	6" ABOVE UPPER FLUTES
3/4"	3/4"	NW	6" ABOVE UPPER FLUTES

NOTE 2
PROVIDE SHIMS (FILLERS) < 1/4" WITHOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-168 J5



SIDE ANCHORAGE ELEVATION
N.T.S.



Steelco
DS 1000 2S

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
PH.+39 04237561

OPM 0517-19
INSTRUMENT WASHER DESINFECTOR

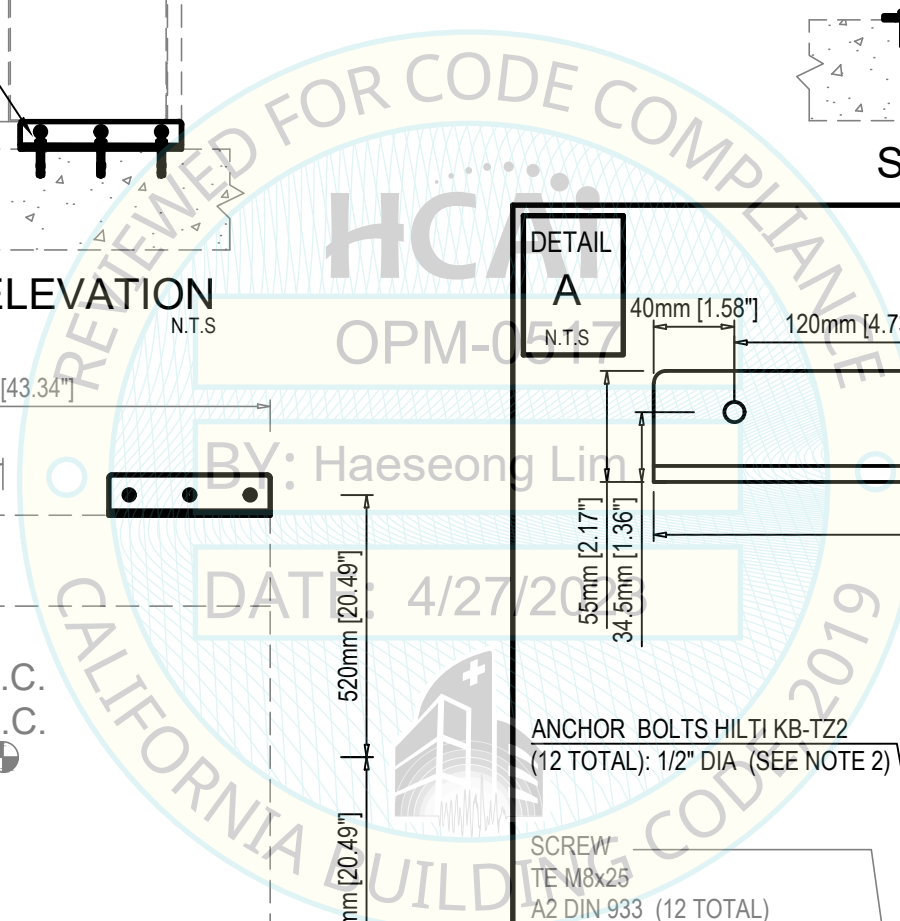
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5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997

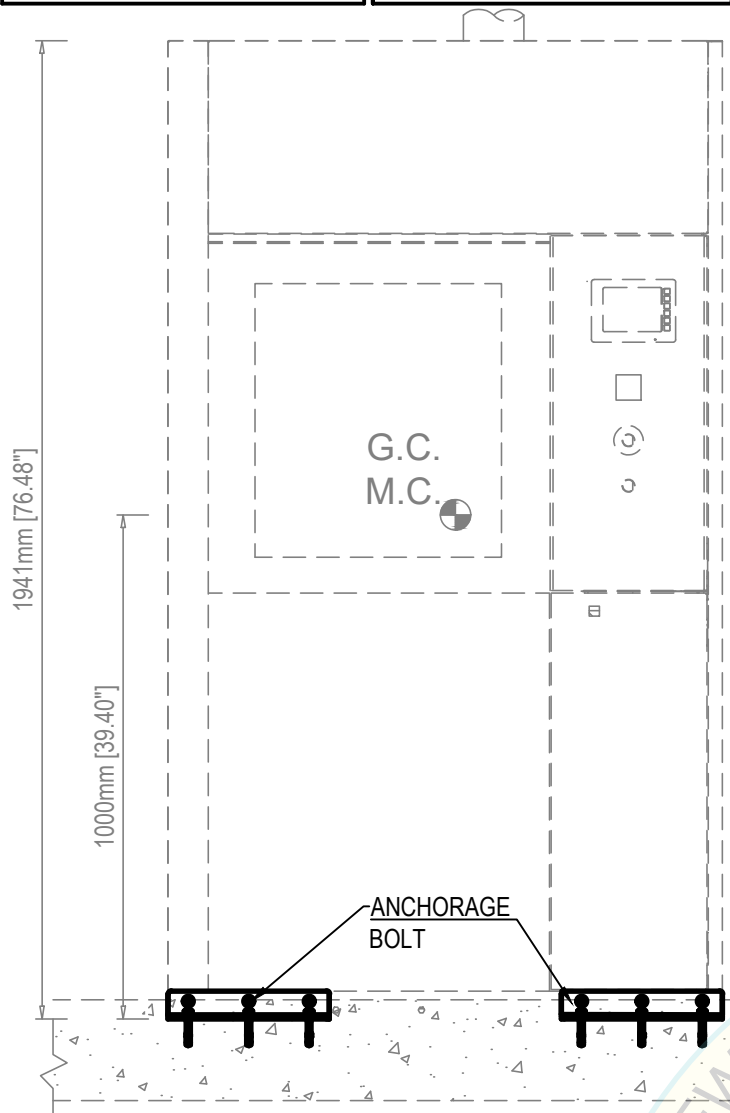


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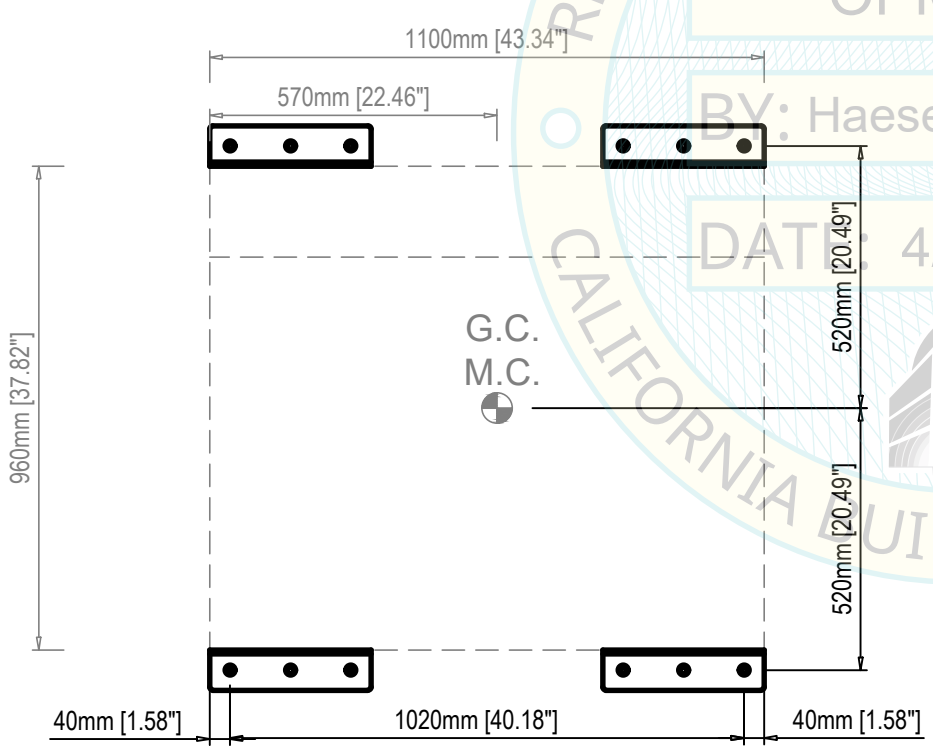


**STEELCO WASHER
DISINFECTOR MODEL
1000 3S**

WEIGHT= 1865 POUNDS
G.C.= Gravity center
M.C.= Mass center



FRONT ANCHORAGE ELEVATION
N.T.S



ANCHORAGE LAYOUT @ BASE
N.T.S

Steelco
DS 1000 3S

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
PH.+39 04237561

OPM 0517-19
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NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

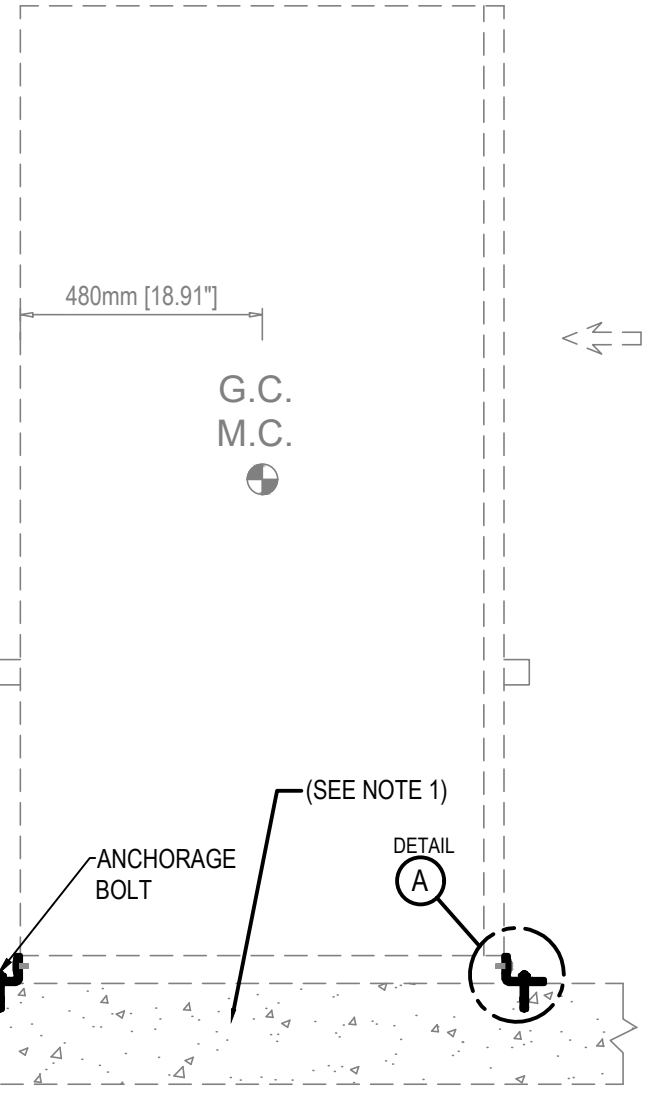
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

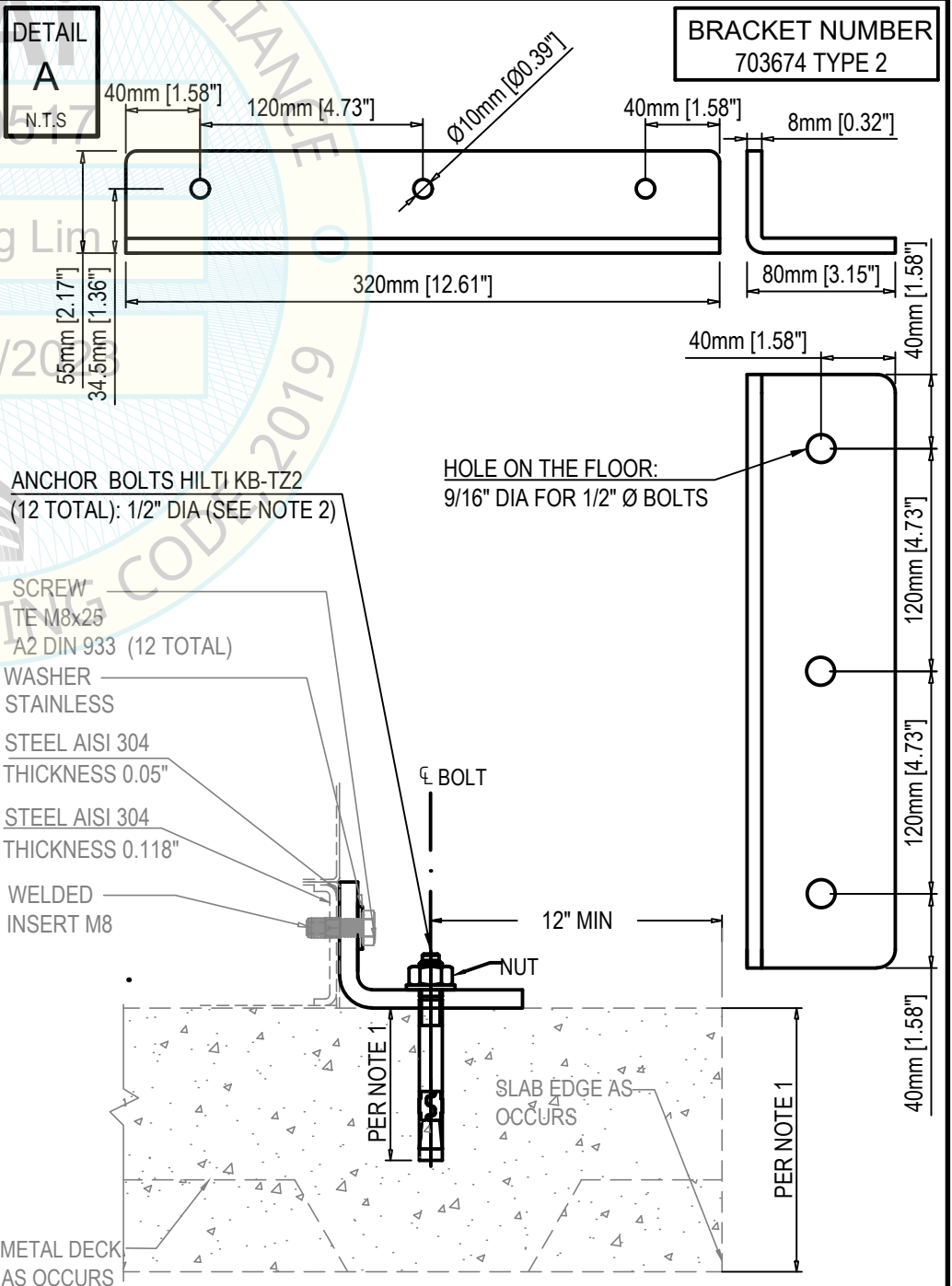
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16 § J5



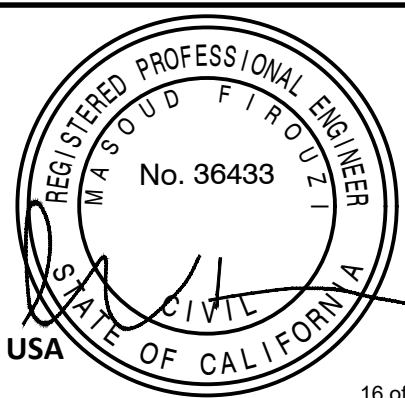
SIDE ANCHORAGE ELEVATION
N.T.S



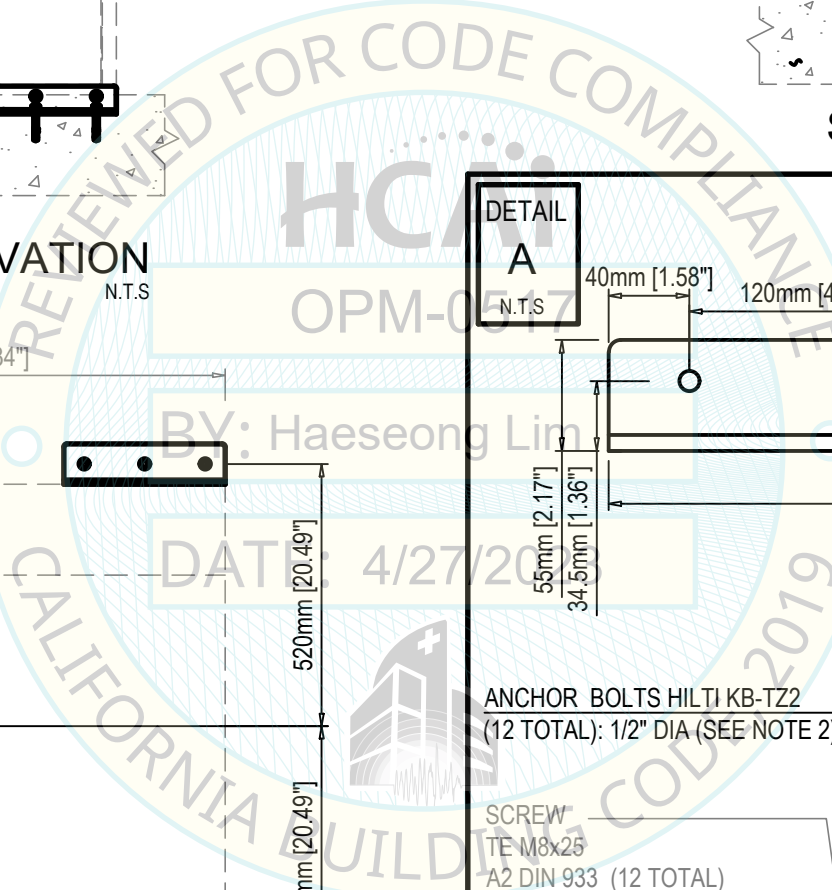
STRUCTURAL DESIGN BY:

**FIROUZI
CONSULTING
ENGINEERS, INC.**

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997

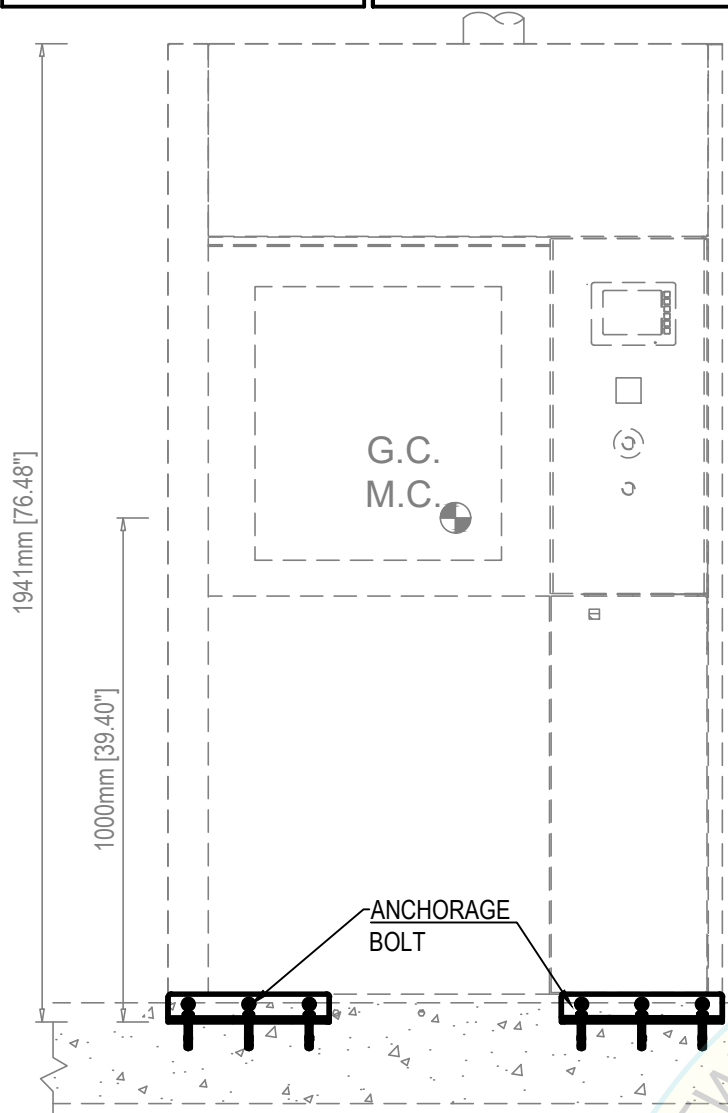


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**STEELCO WASHER
DISINFECTOR MODEL
N° DS 1000**

WEIGHT= 1285 POUNDS
G.C.= Gravity center
M.C.= Mass center



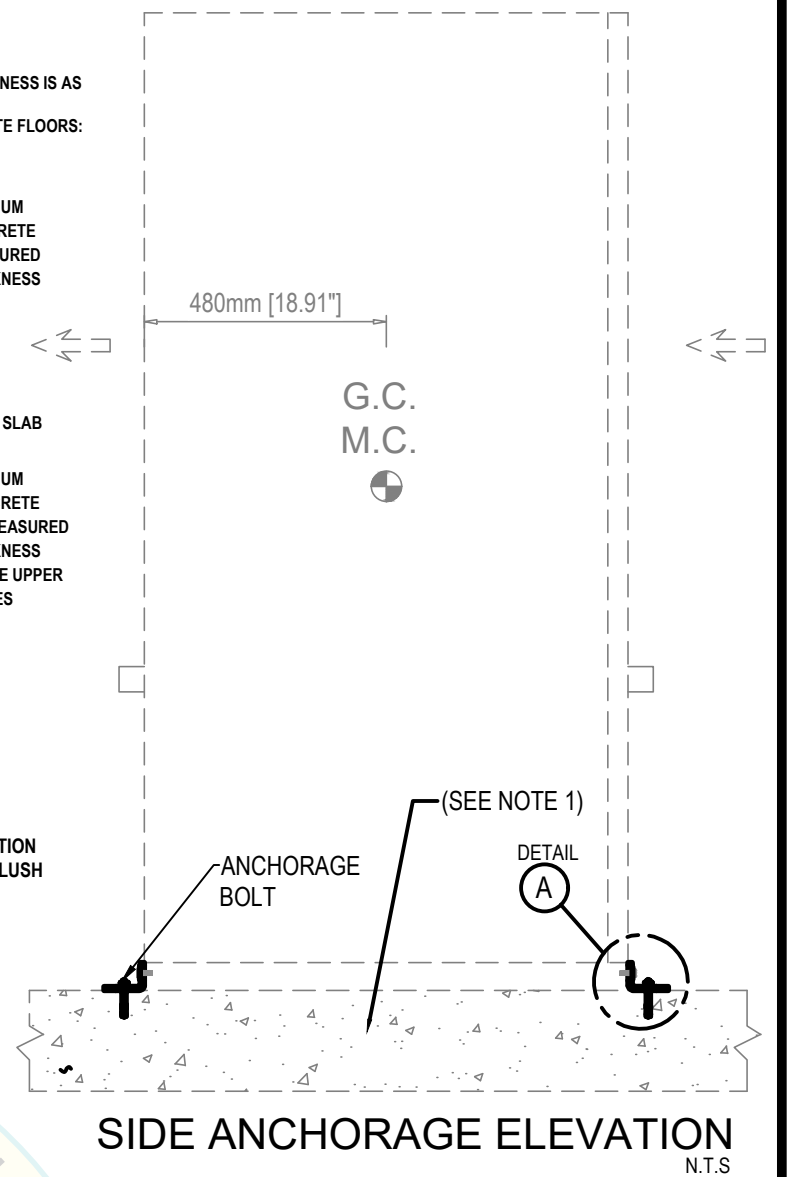
NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:
1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f _c =3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

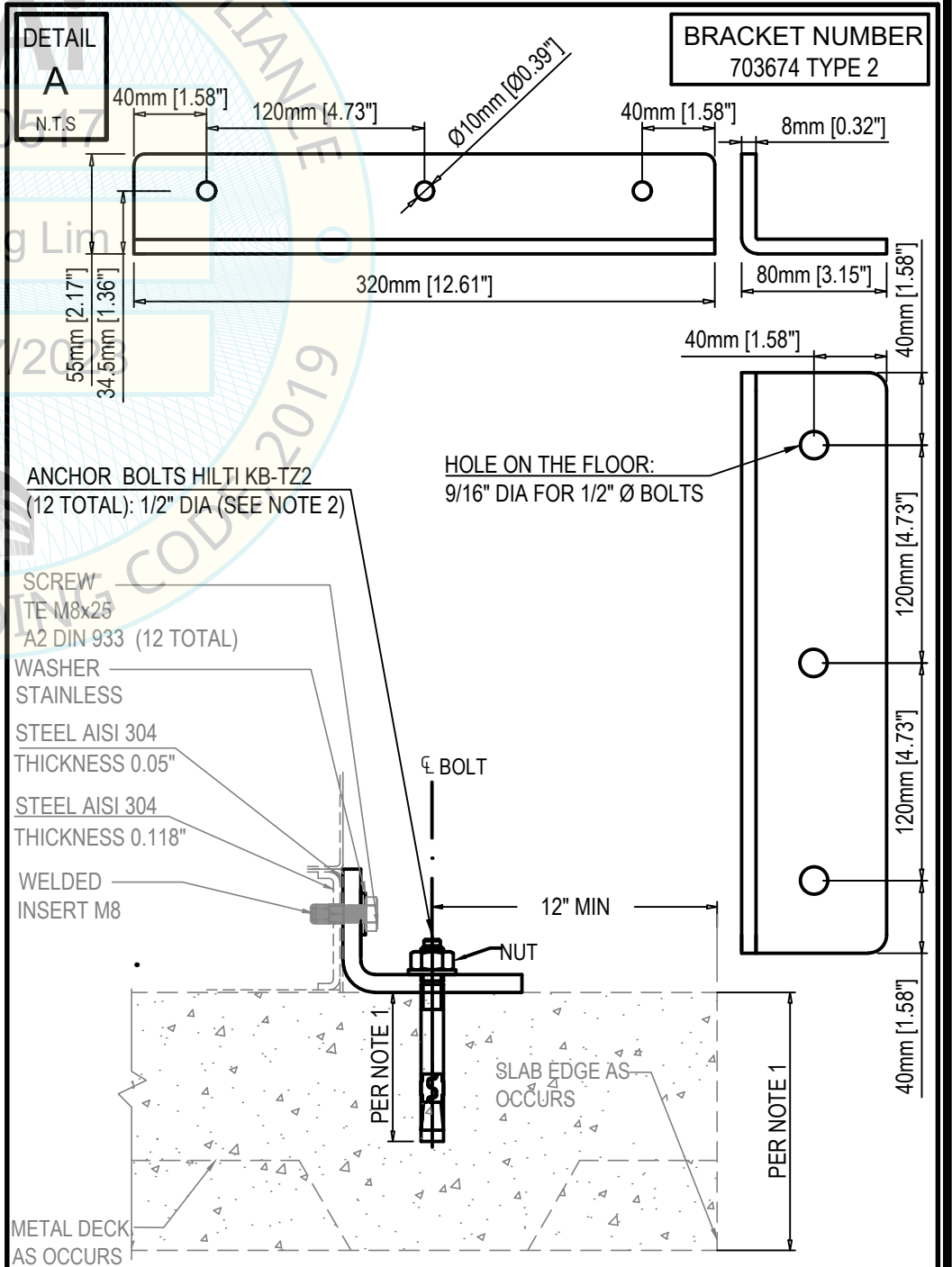
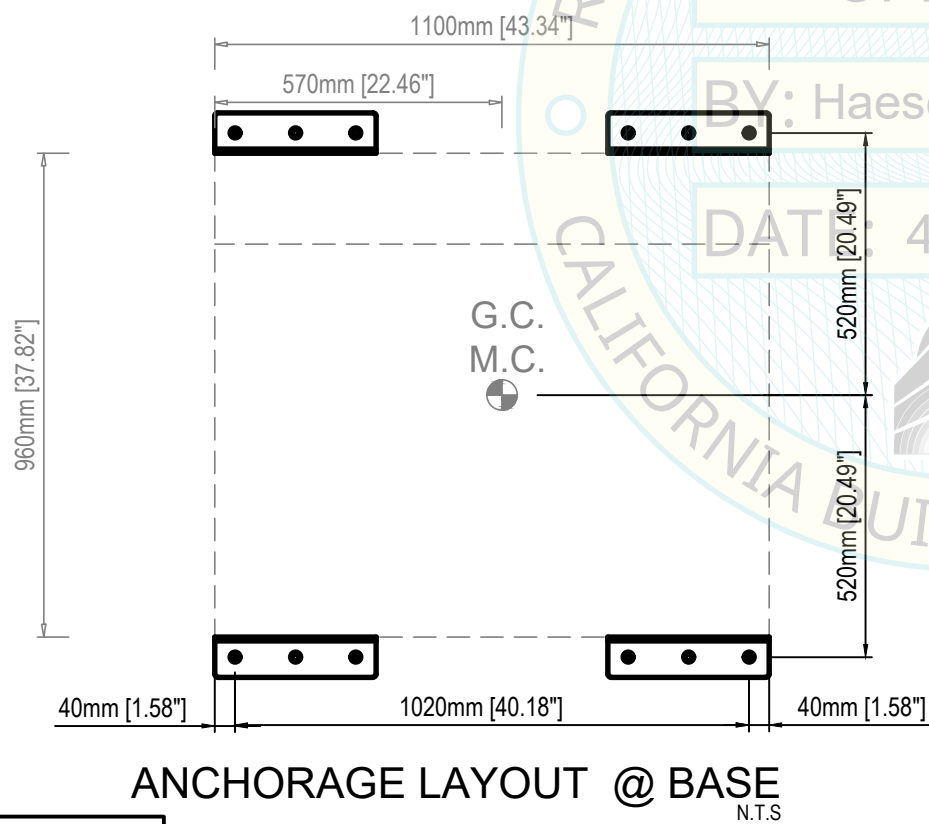
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f _c =3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16§J5



FRONT ANCHORAGE ELEVATION
N.T.S.

SIDE ANCHORAGE ELEVATION
N.T.S.



Steelco
DS 1000

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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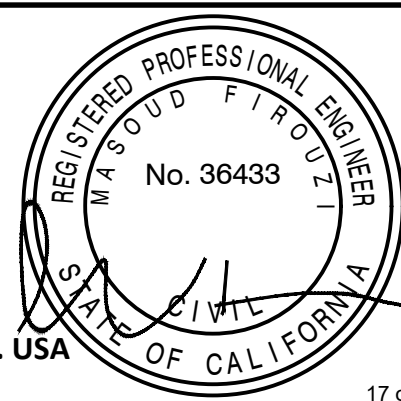
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CONSULTING
ENGINEERS, INC.**

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SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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2023

STEELCO WASHER
DISINFECTORS MODEL
N° DS 1000 N

WEIGHT= 1290 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

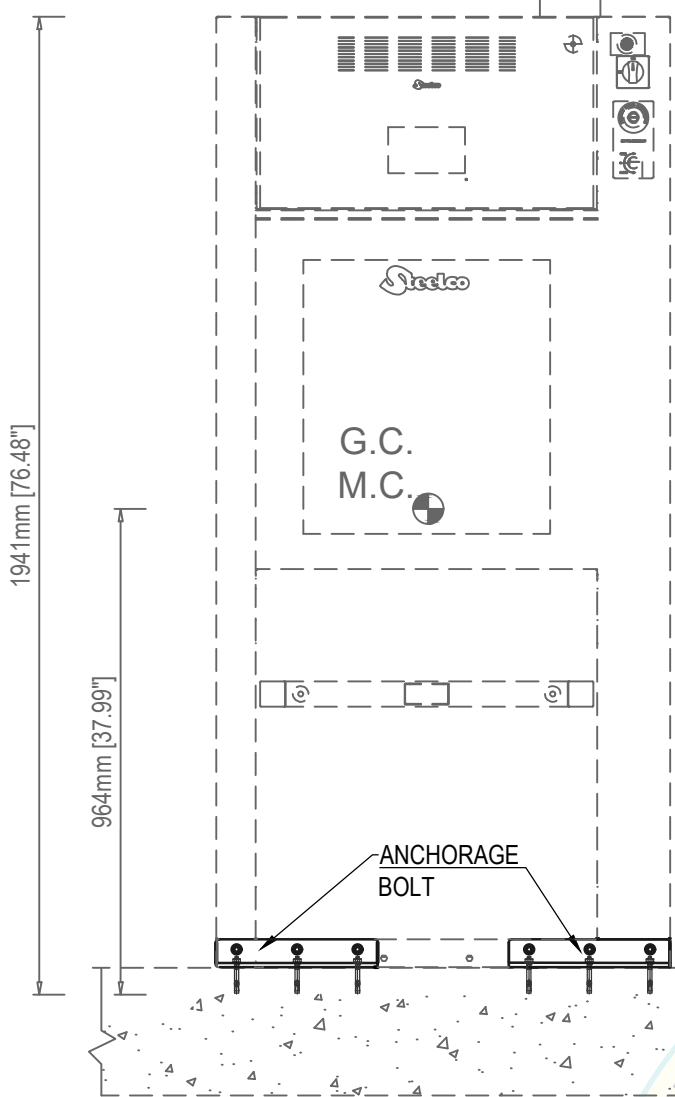
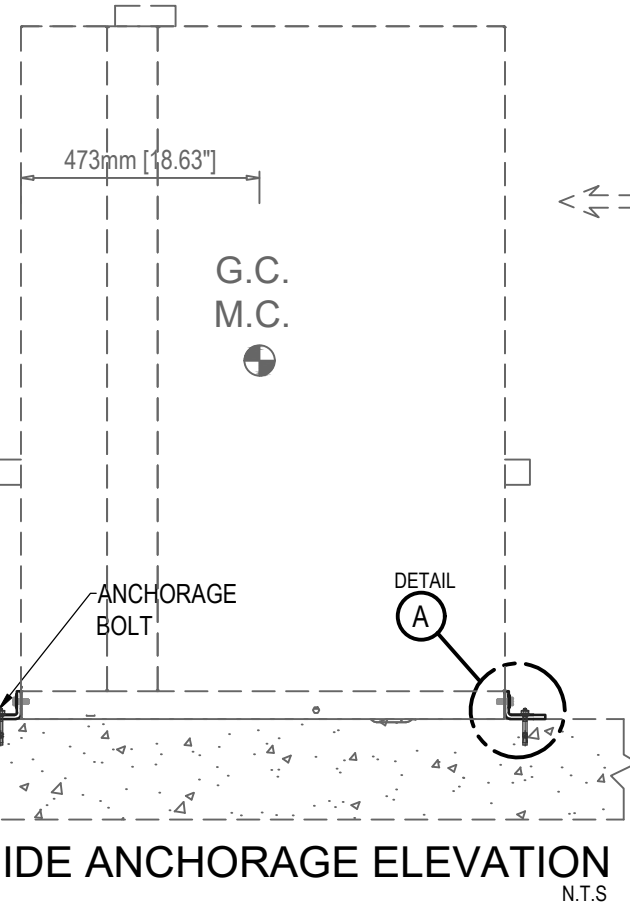
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

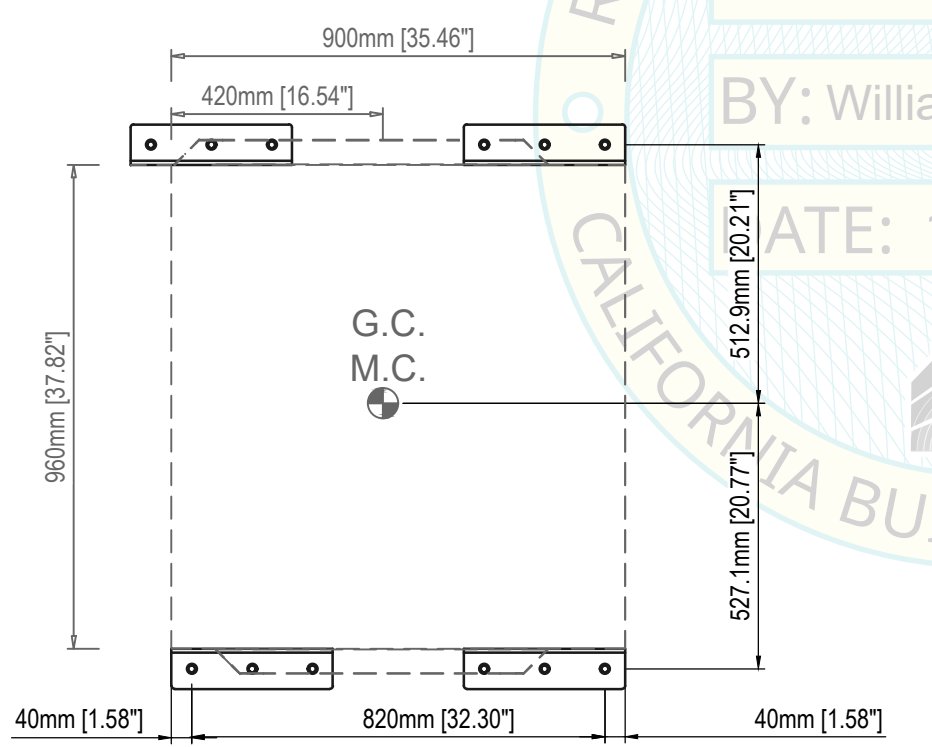
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

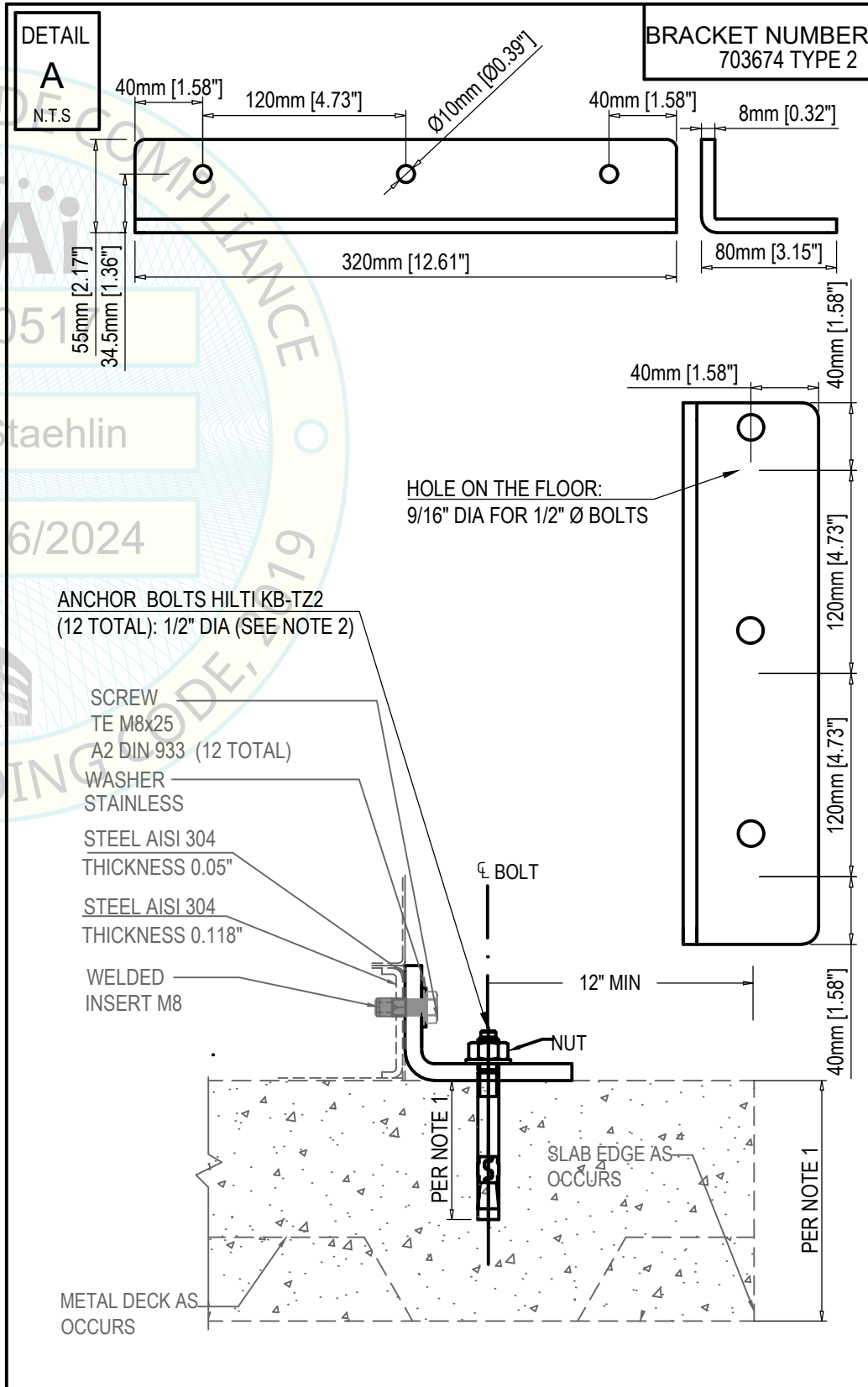
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WITHOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM DEGE TO BE FLUSH W/PL. REFER TO AISC 360-16 § J5



FRONT ANCHORAGE ELEVATION N.T.S



ANCHORAGE LAYOUT @ BASE N.T.S



- ANCHOR BOLTS HILTI KB-TZ2 (12 TOTAL): 1/2" DIA (SEE NOTE 2)
- SCREW TE M8x25 A2 DIN-933 (12 TOTAL)
- WASHER STAINLESS
- STEEL AISI 304 THICKNESS 0.05"
- STEEL AISI 304 THICKNESS 0.118"
- WELDED INSERT M8



EQUIPMENT LIST FOR OPM-0517-19: **1** DECEMBER 10-2024
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks
3 EQUIPMENT ADDED: DS 1000 N, DS 1000 N1S, DS 1000 N2S



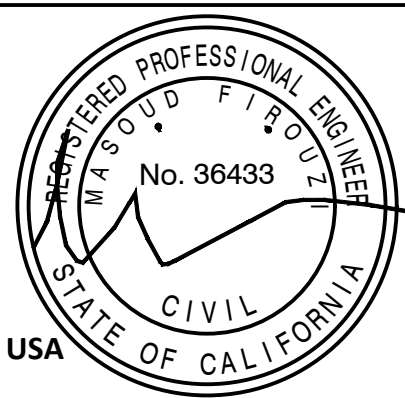
STEELCO, SpA
VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
PH.+39 04237561
OPM 0517-19
INSTRUMENT WASHER DISINFECTOR

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STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105-642
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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STEELCO WASHER
DISINFECTORS MODEL
N° DS 1000 N1S

WEIGHT= 1500 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

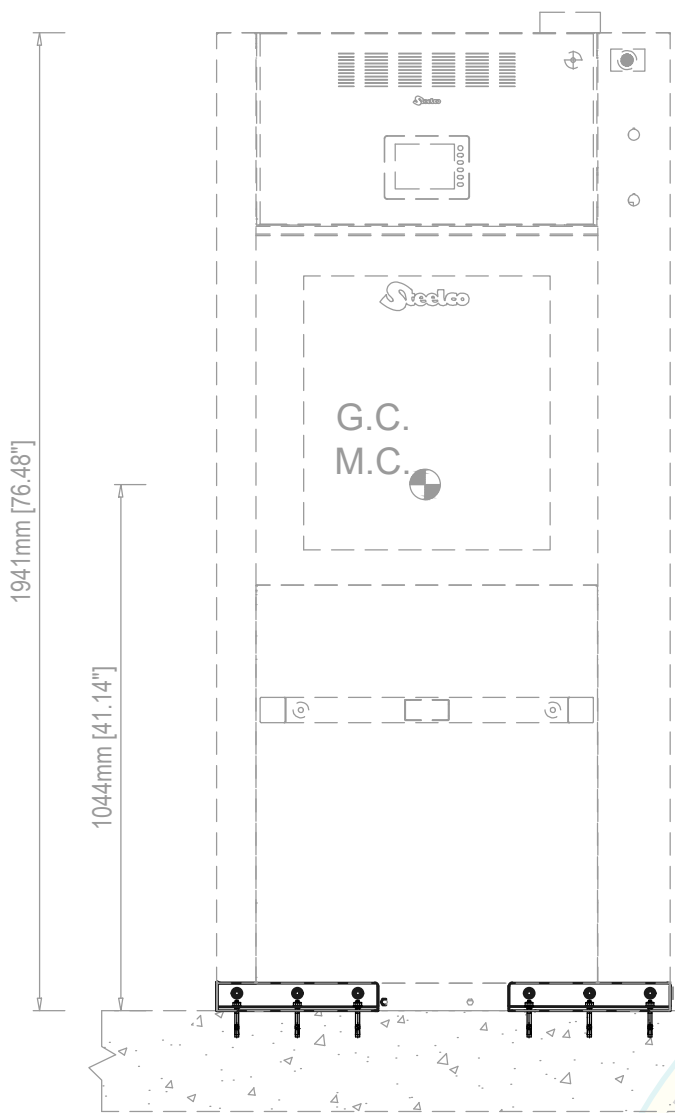
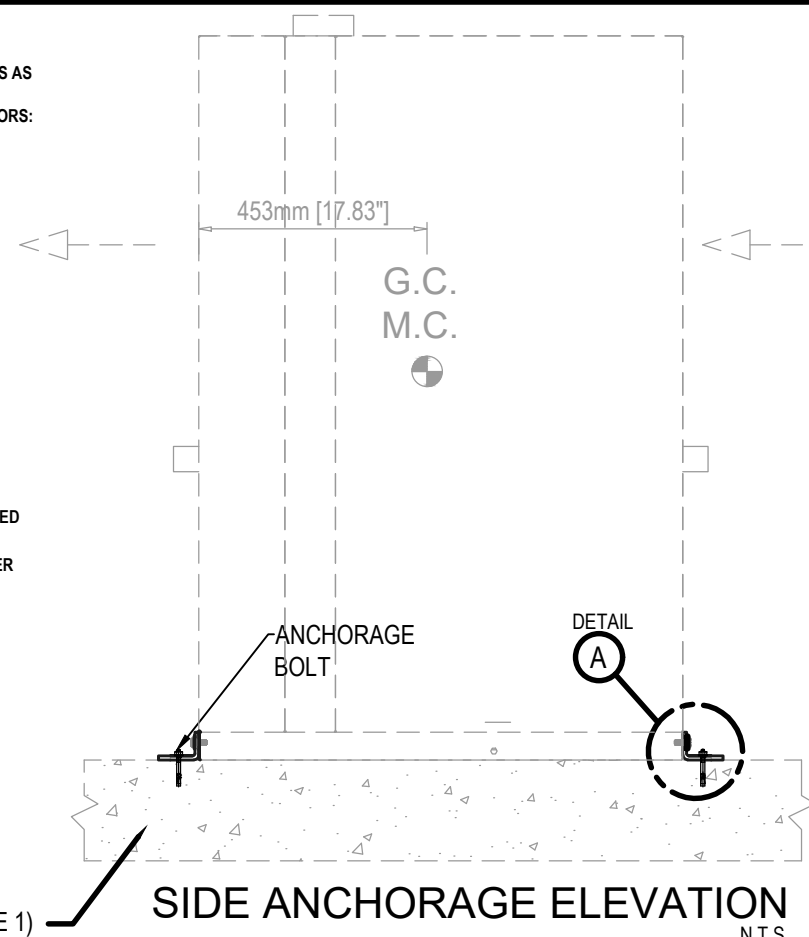
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

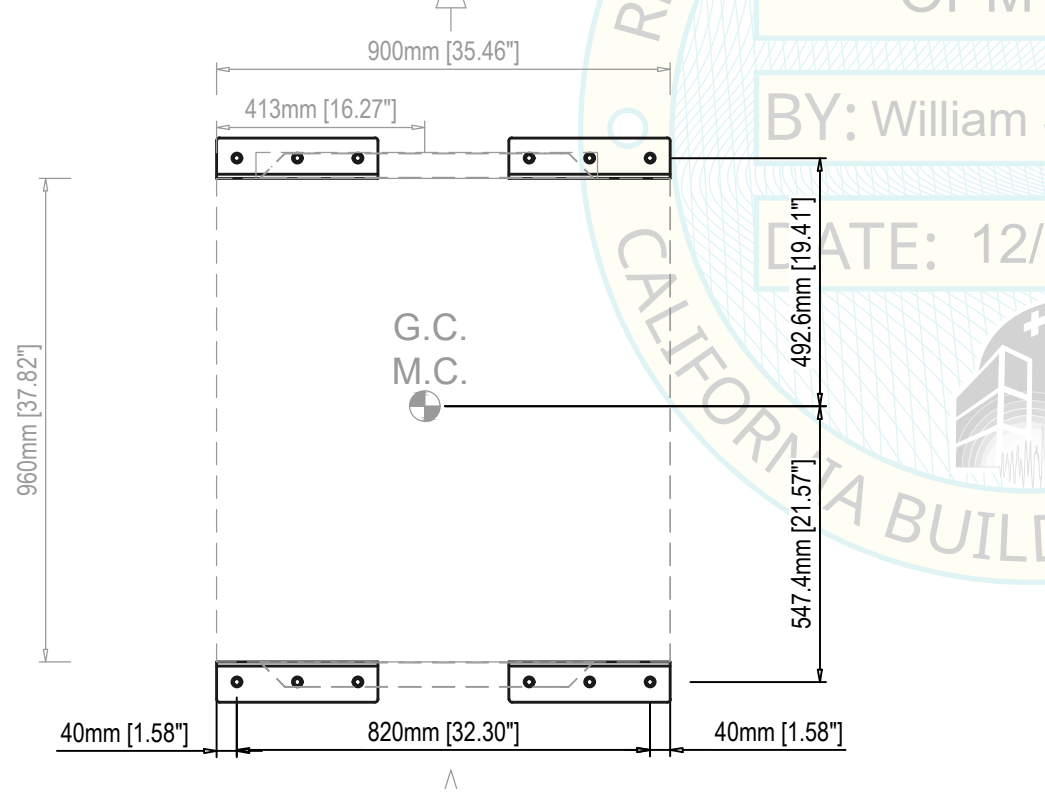
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

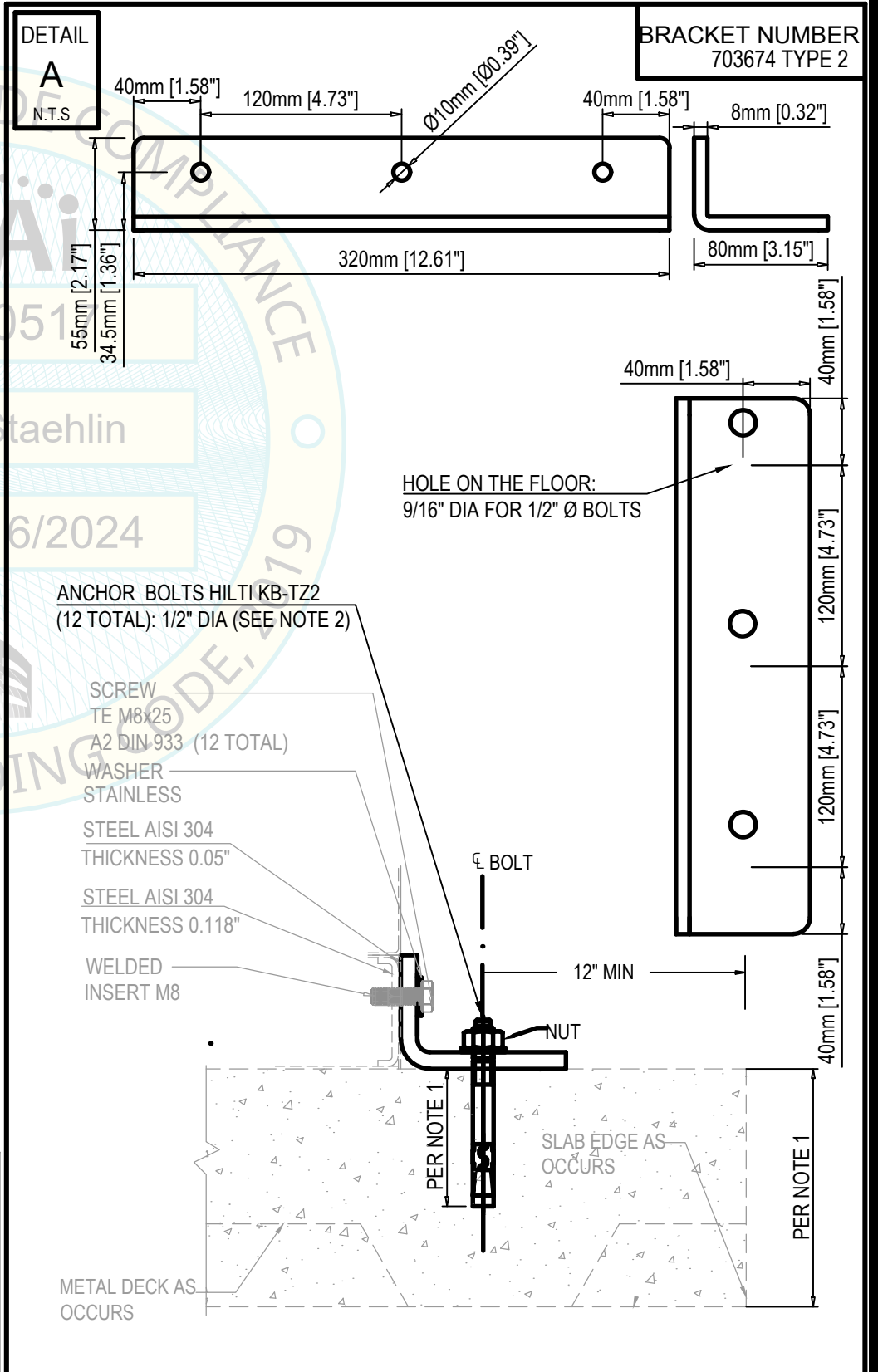
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WITHOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDGE TO BE FLUSH w/PL. REFER TO AISC 360-16§J5



FRONT ANCHORAGE ELEVATION N.T.S



ANCHORAGE LAYOUT @ BASE N.T.S



Steelco
DS 1000 N1S

EQUIPMENT LIST FOR OPM-0517-19: **DECEMBER 10-2024**
 DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks
3 EQUIPMENT ADDED: DS 1000 N, DS 1000 N1S, DS 1000 N2S

Steelco
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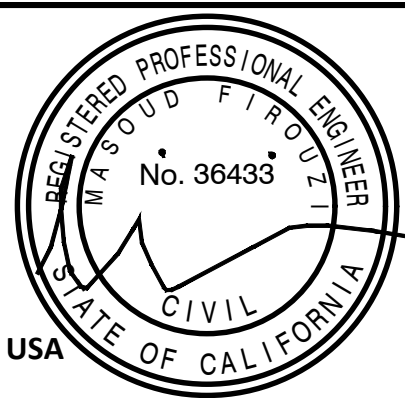
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PH.+39 04237561
OPM 0517-19
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STRUCTURAL DESIGN BY:

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STEELCO WASHER
DISINFECTORS MODEL
N° DS 1000 N2S

WEIGHT= 1700 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

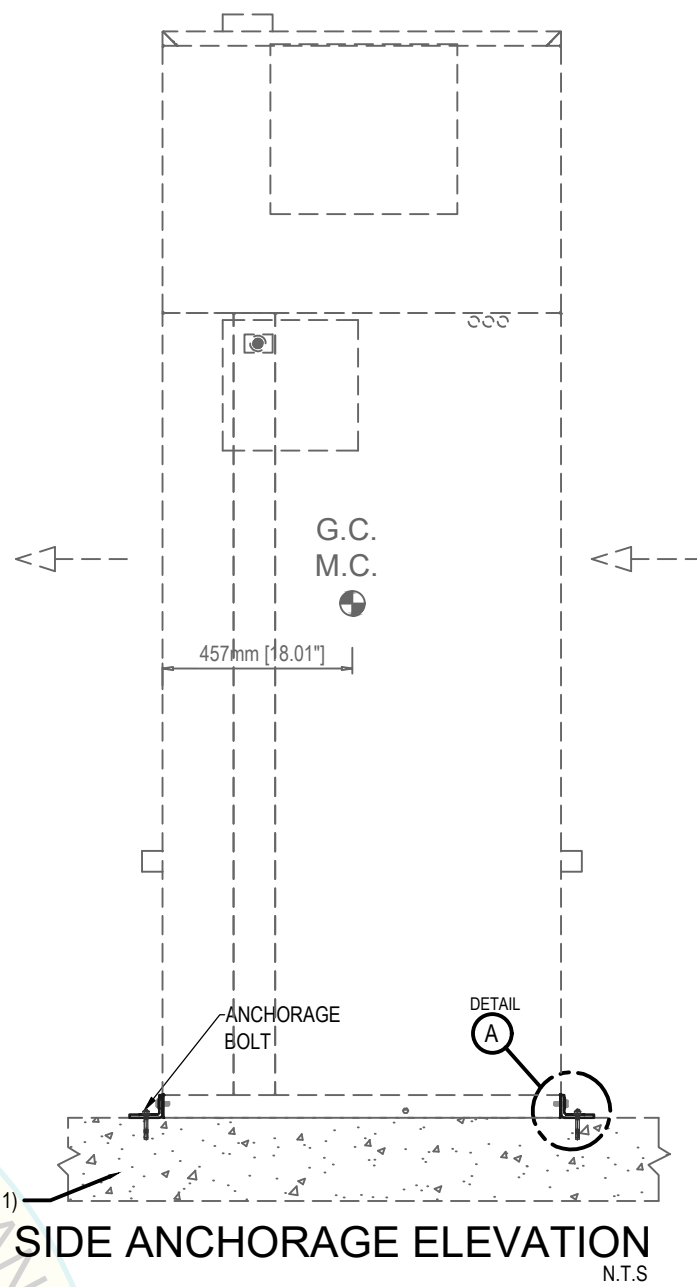
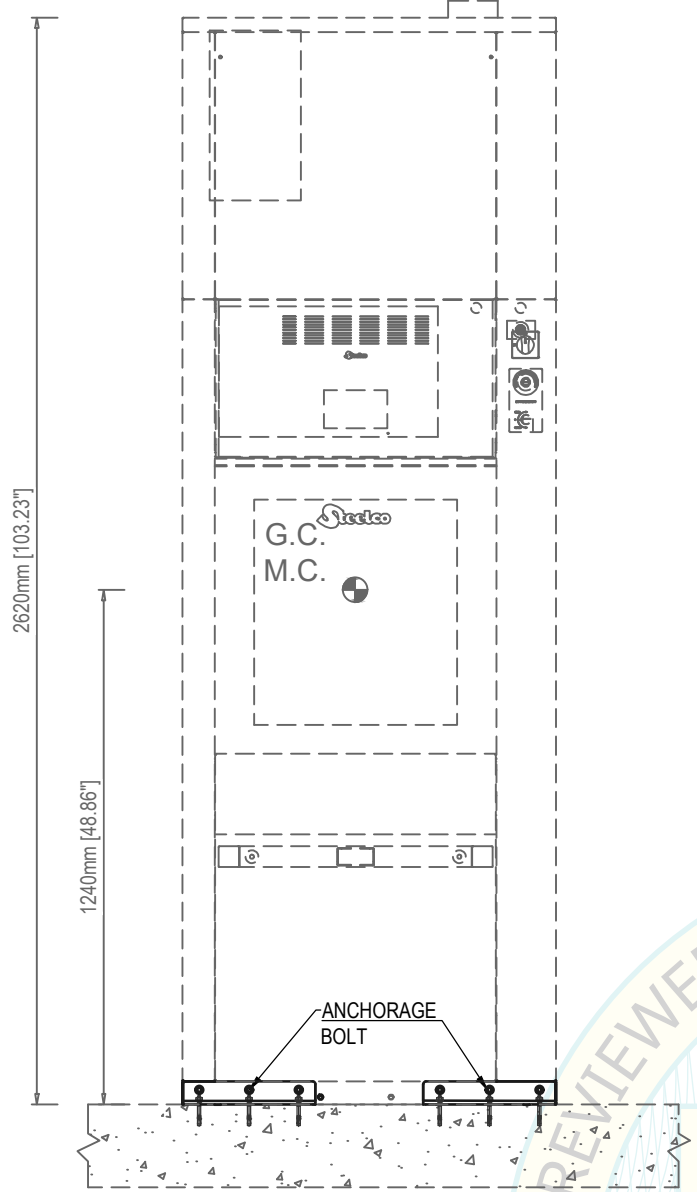
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

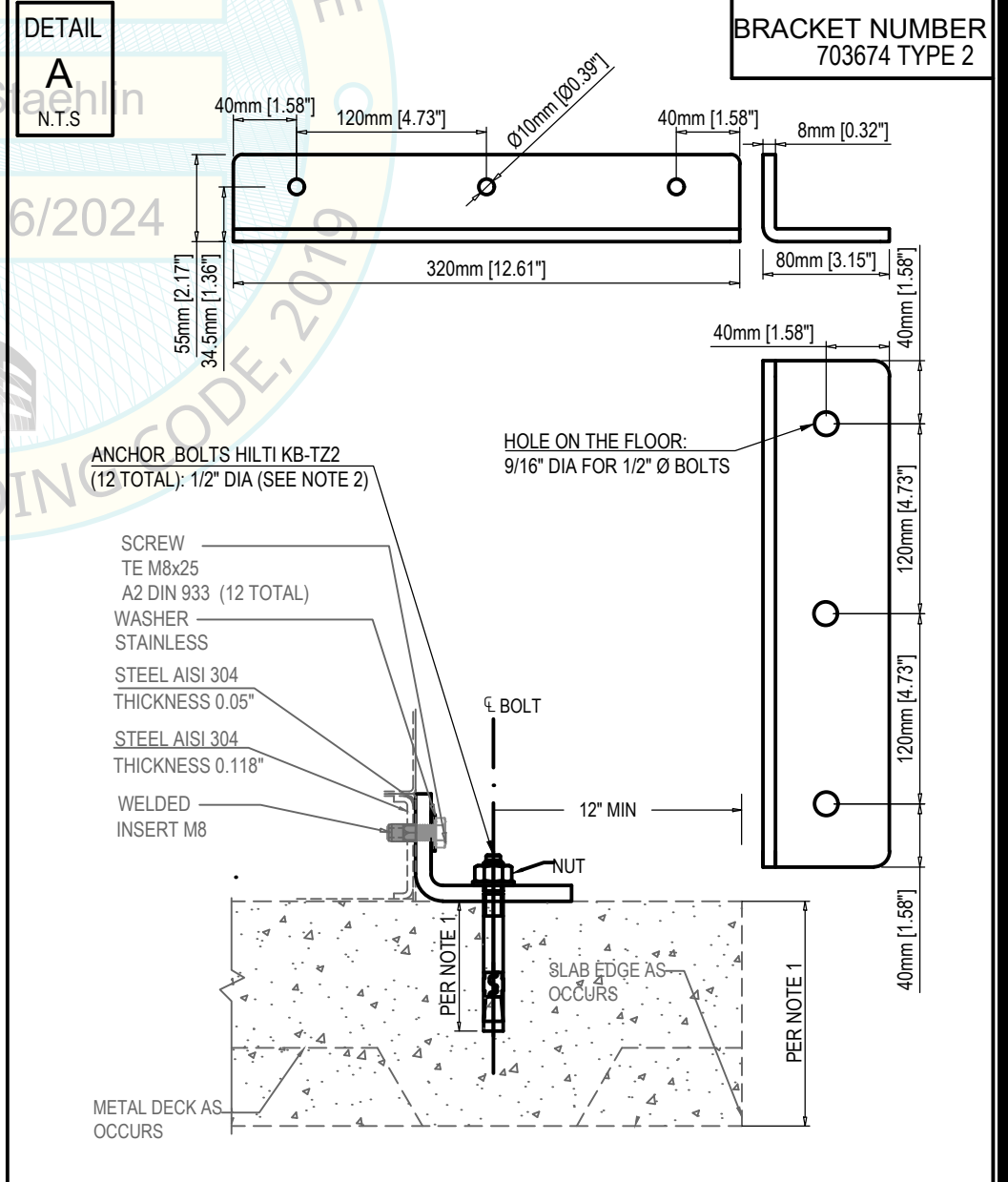
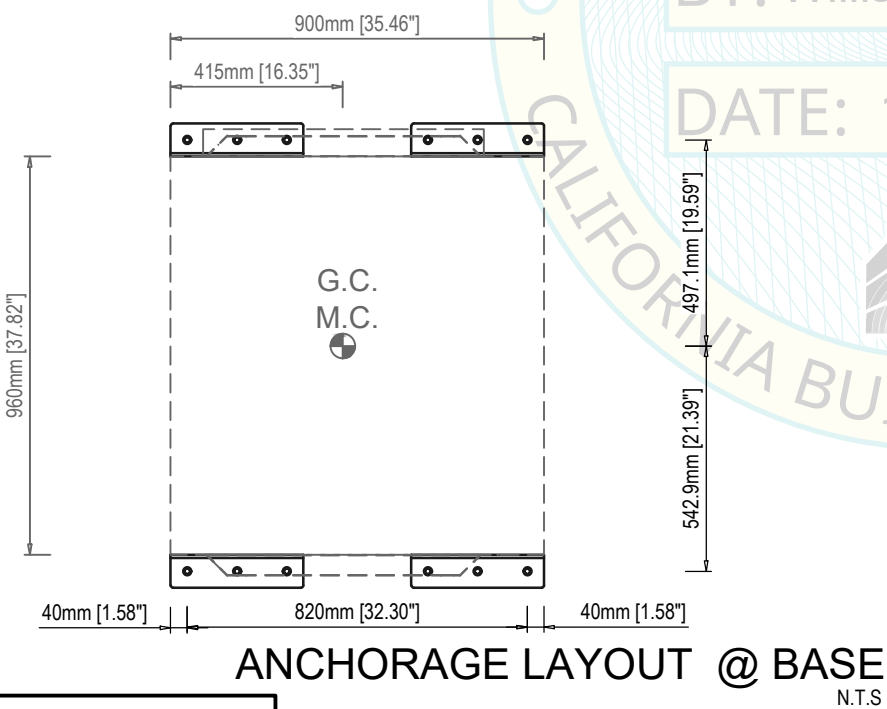
NOTE 2

PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WITHOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDGE TO BE FLUSH W/PL. REFER TO AISC 360-16§J5



FRONT ANCHORAGE ELEVATION

SIDE ANCHORAGE ELEVATION



Steelco
DS 1000 N2S

EQUIPMENT LIST FOR OPM-0517-19: **1** DECEMBER 10-2024
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks
1 **3 EQUIPMENT ADDED: DS 1000 N, DS 1000 N1S, DS 1000 N2S**

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VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
PH.+39 04237561

OPM 0517-19
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619.997.9997



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2024

STEELCO DRYING
CABINET MODEL N° ED 100/2
FRONTAL SUPPORT

WEIGHT= 717 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

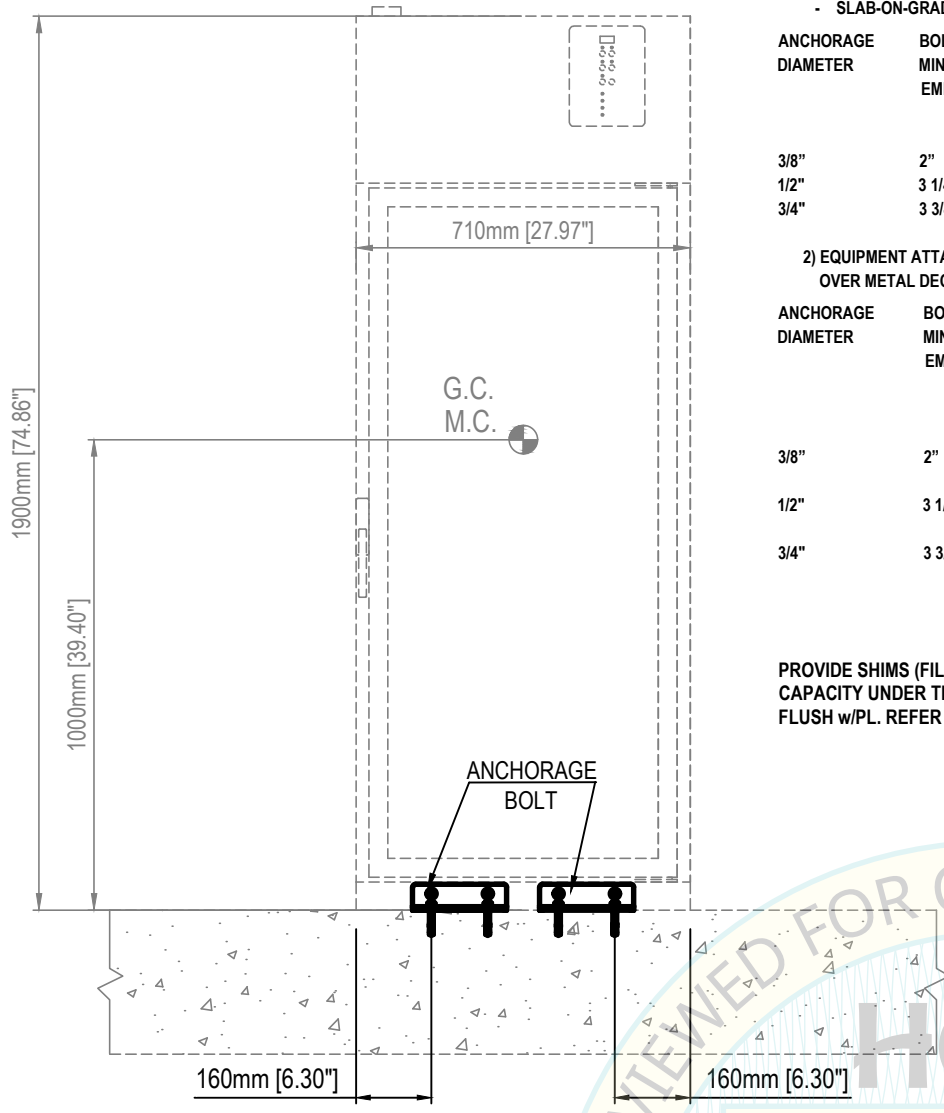
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

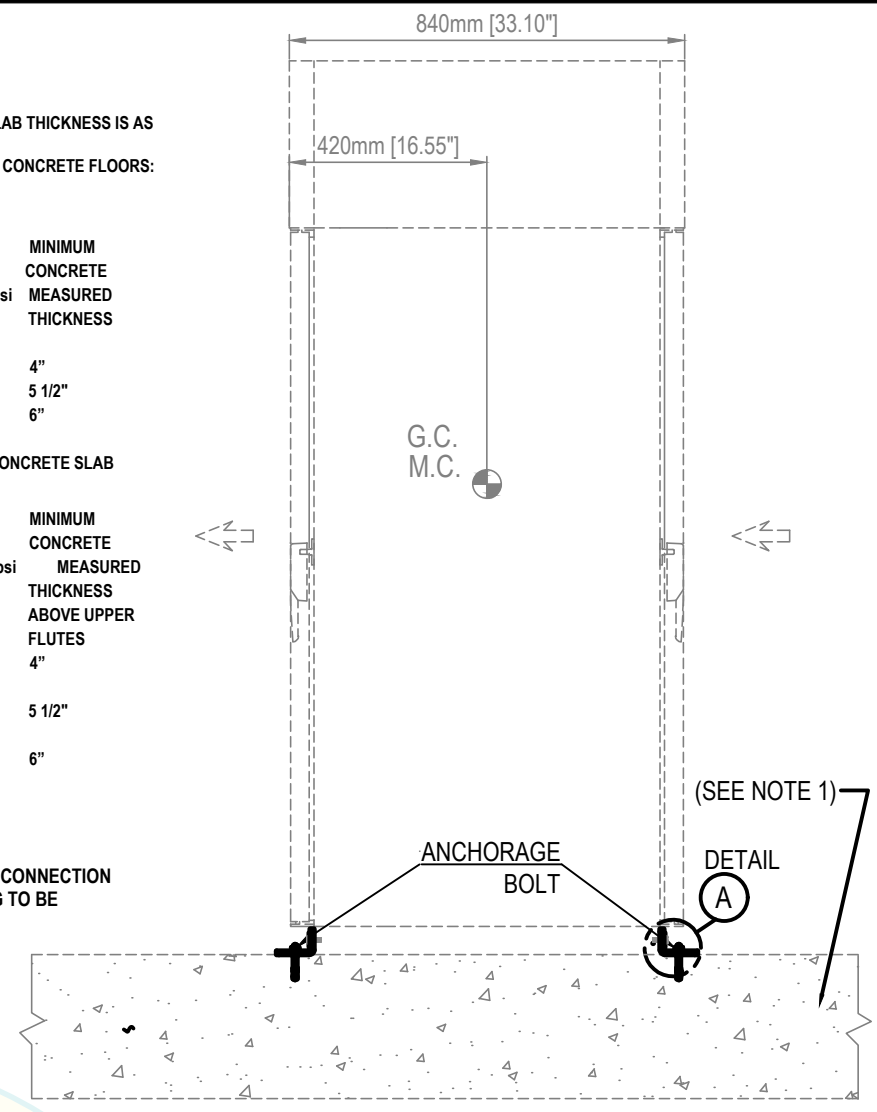
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

NOTE 2

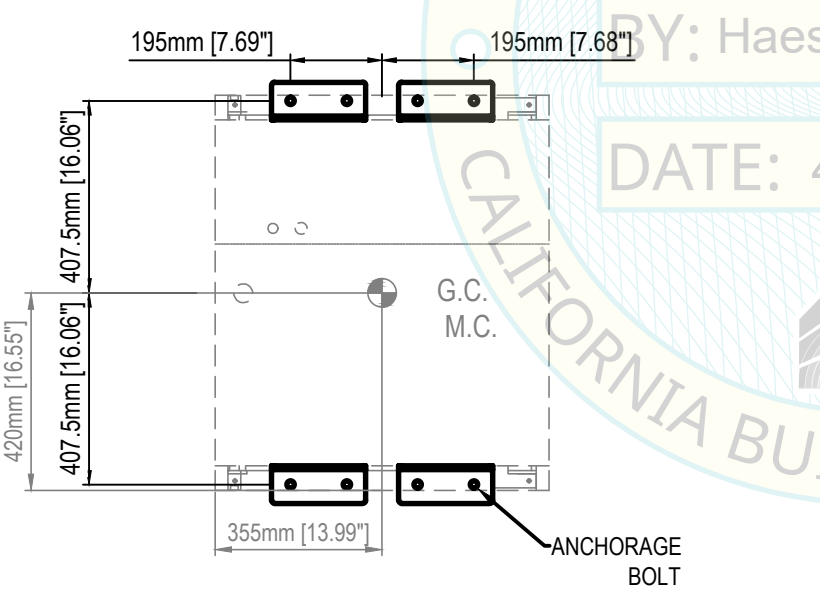
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-168 J5



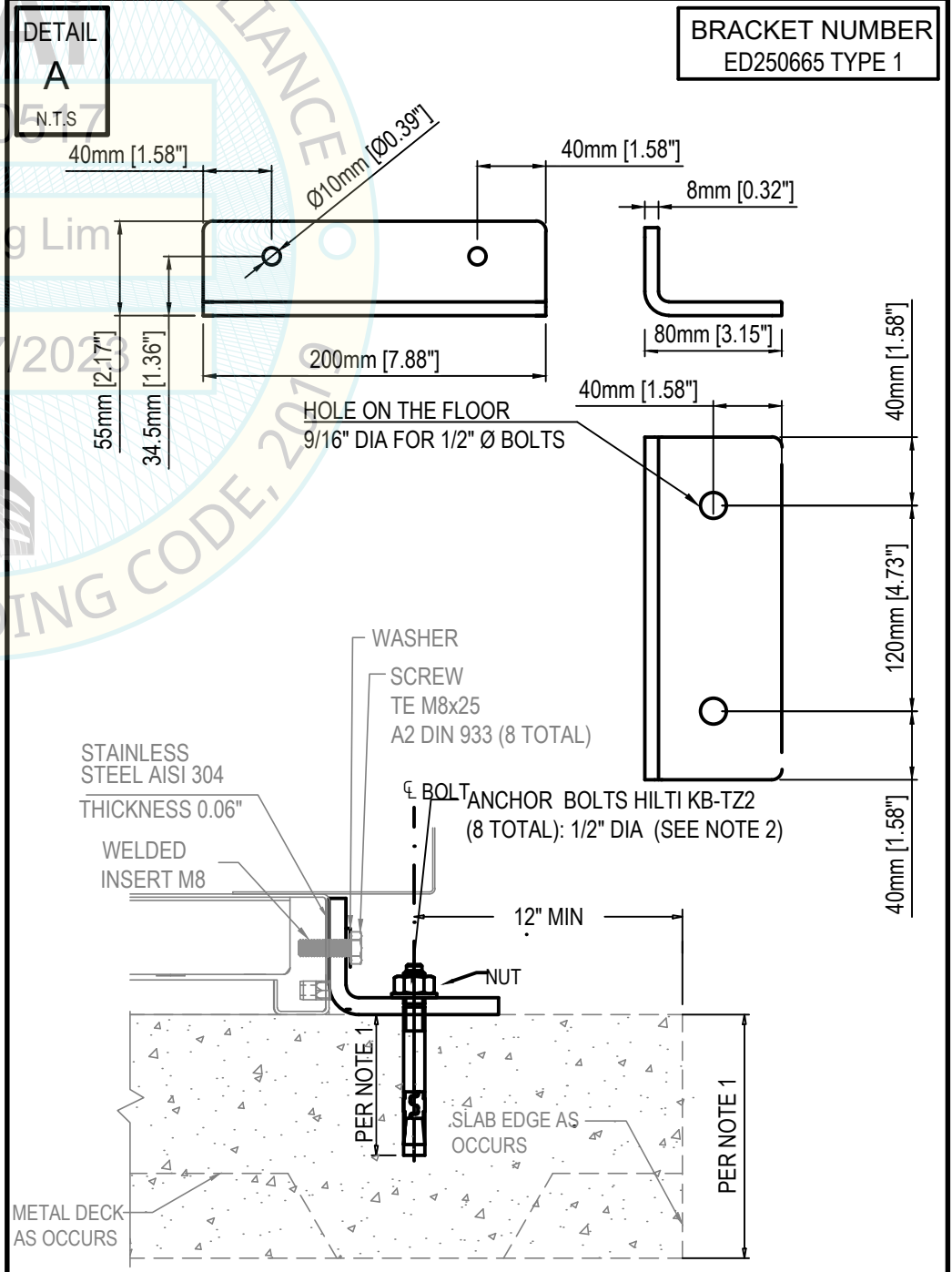
FRONT ANCHORAGE ELEVATION
N.T.S



SIDE ANCHORAGE ELEVATION
N.T.S



ANCHORAGE LAYOUT AT BASE
N.T.S



BRACKET NUMBER
ED250665 TYPE 1

Steelco
ED 100/2 FRONTAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

Steelco
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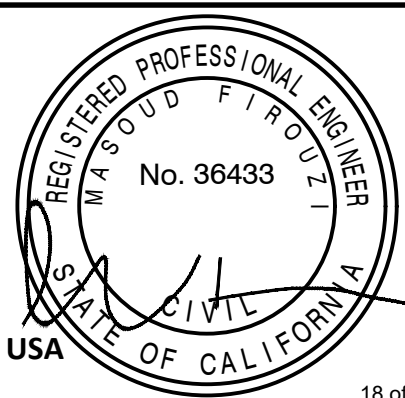
STEELCO, S.P.A.
VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
PH.+39 04237561
OPM 0517-19
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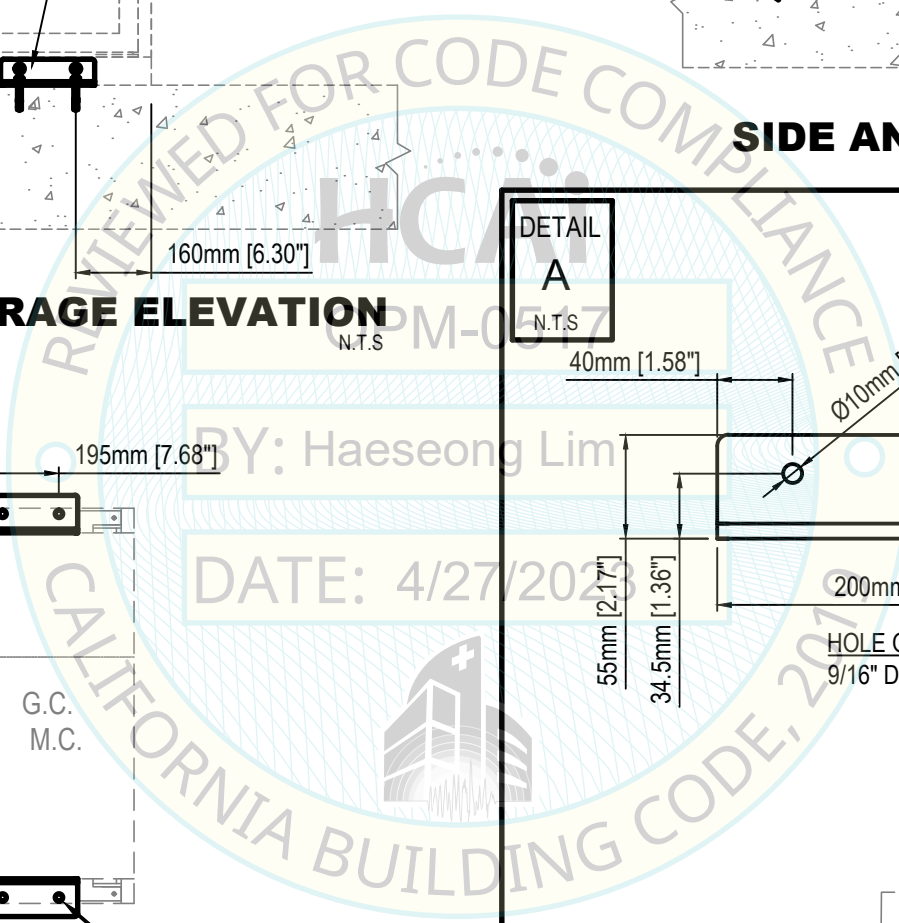
STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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STEELCO DRYING
CABINET MODEL N° ED 100/2
LATERAL SUPPORT

WEIGHT= 717 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

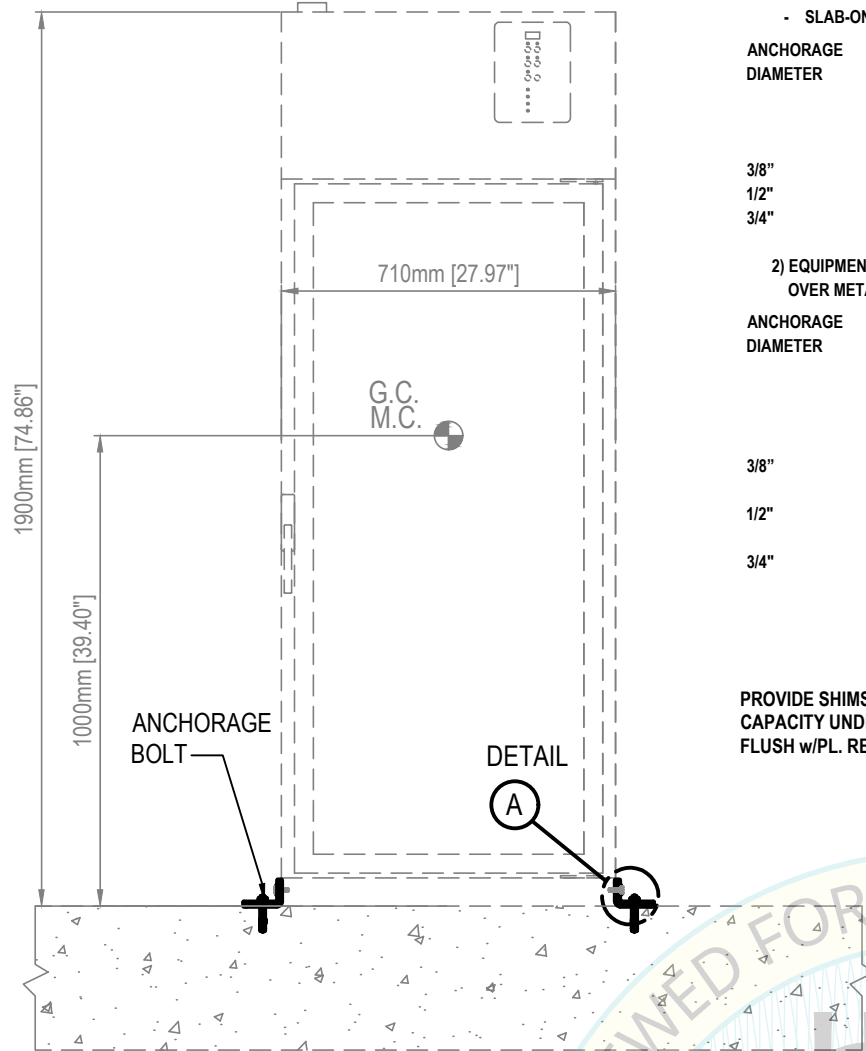
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

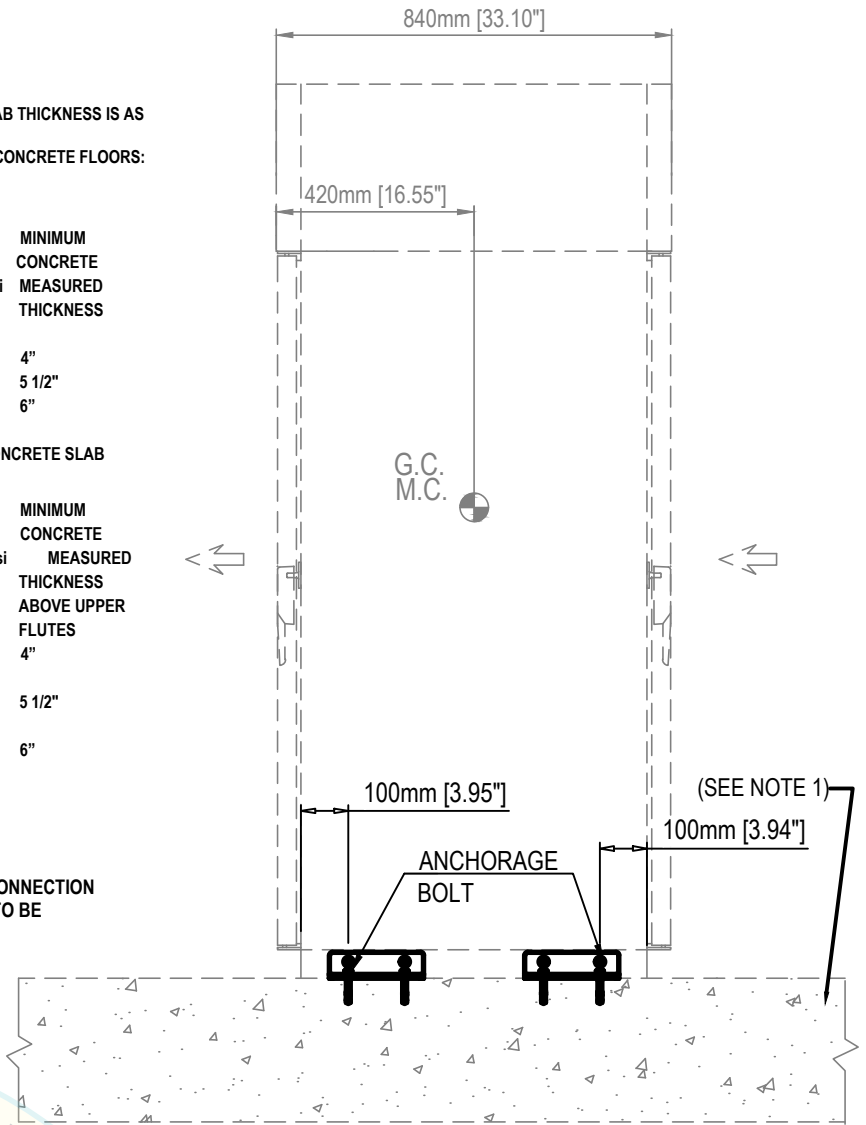
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

NOTE 2

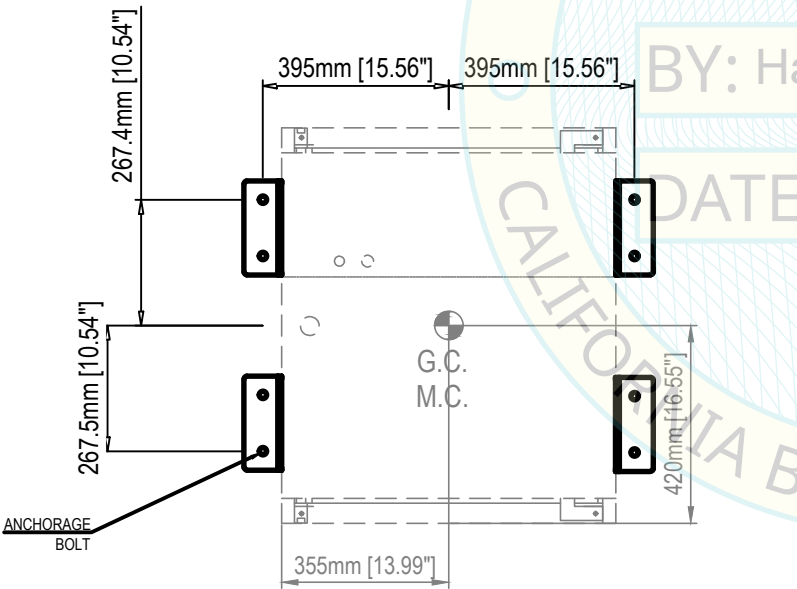
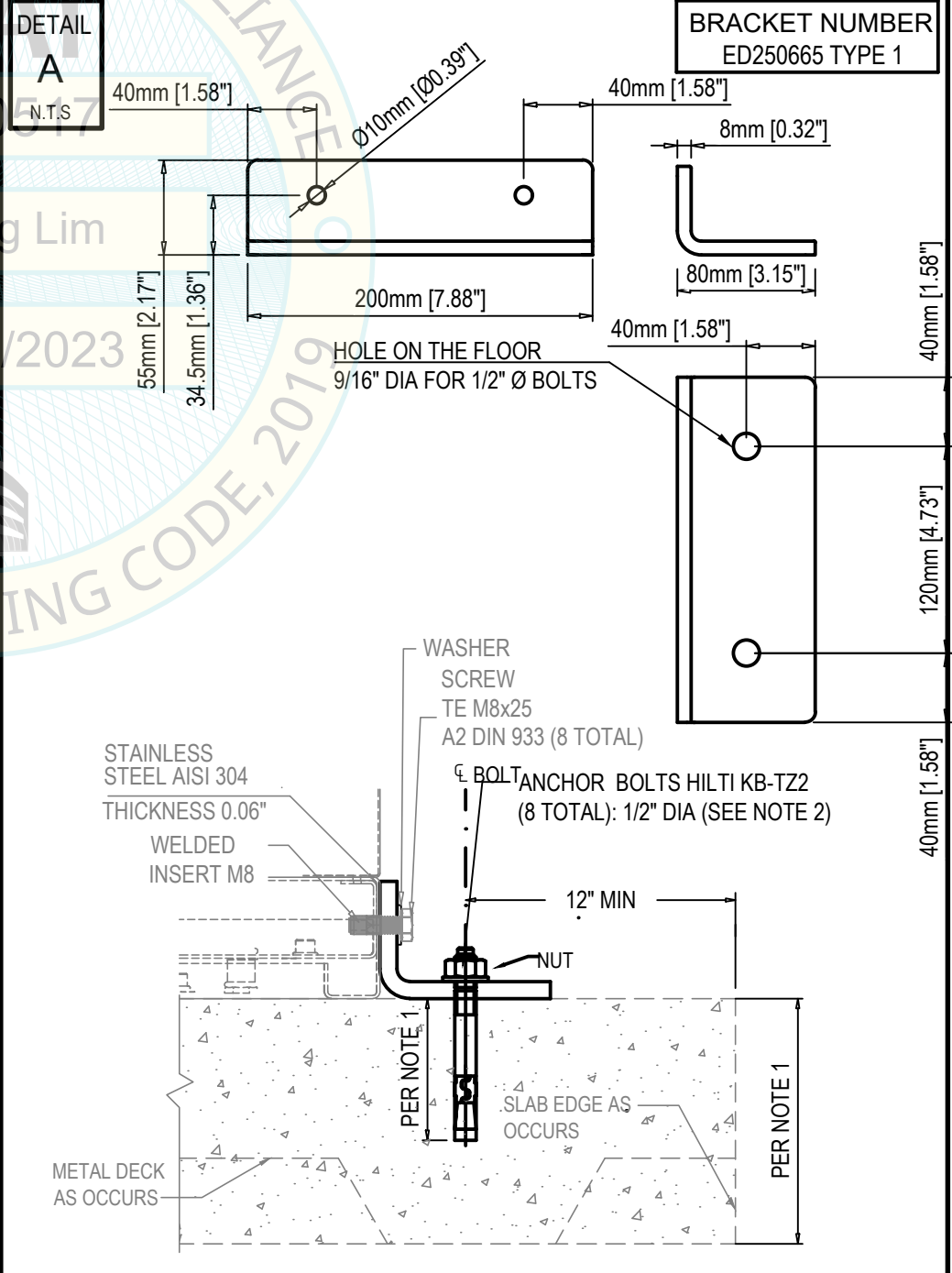
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16§ J5



FRONT ANCHORAGE ELEVATION
N.T.S.



SIDE ANCHORAGE ELEVATION
N.T.S.



ANCHORAGE LAYOUT AT BASE
N.T.S.

Steelco
ED 100/2 LATERAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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STRUCTURAL DESIGN BY:

FIROUZI
CONSULTING
ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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STEELCO DRYING
CABINET MODEL N° ED 250/1
FRONTAL SUPPORT

WEIGHT= 954 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

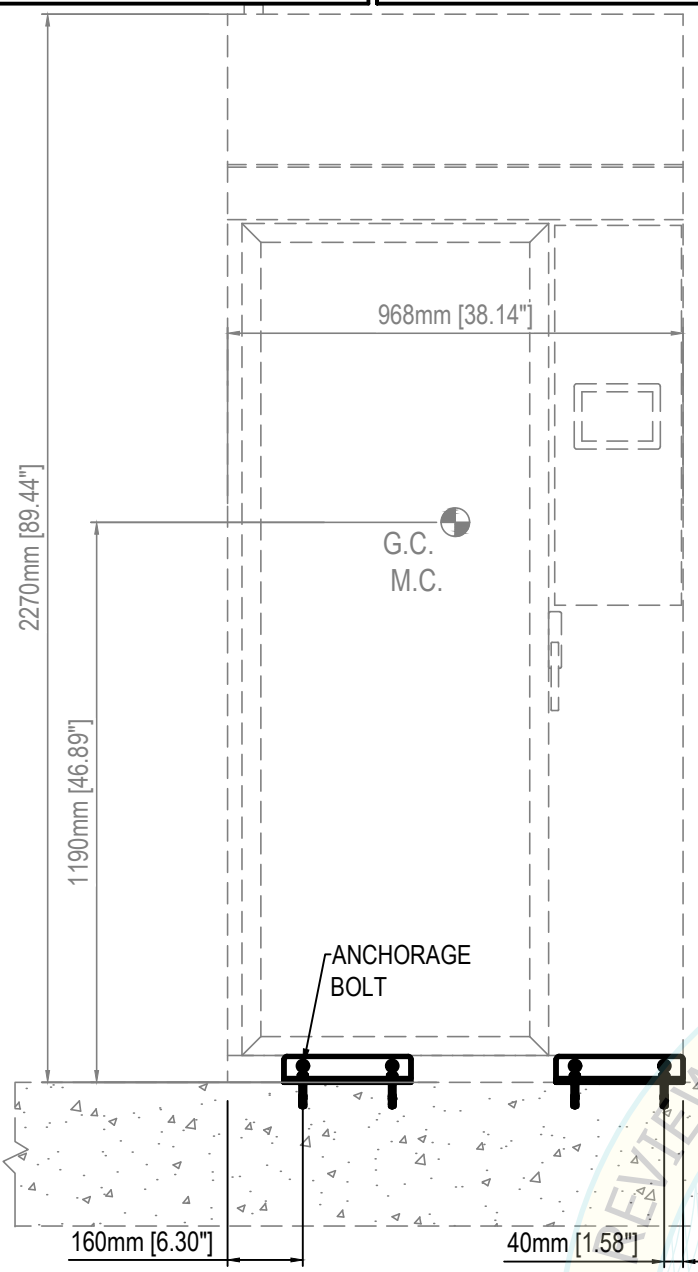
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN F _c =3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

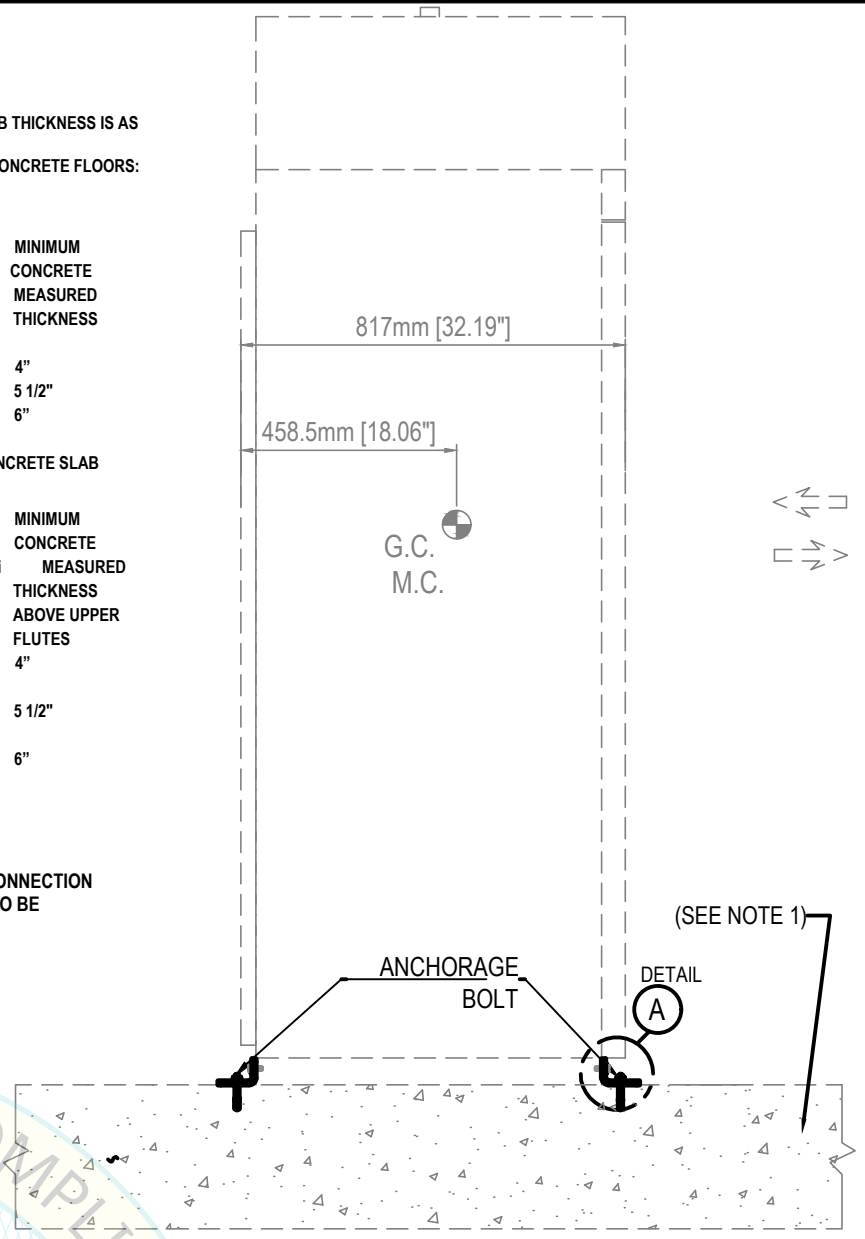
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN F _c =3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

NOTE 2

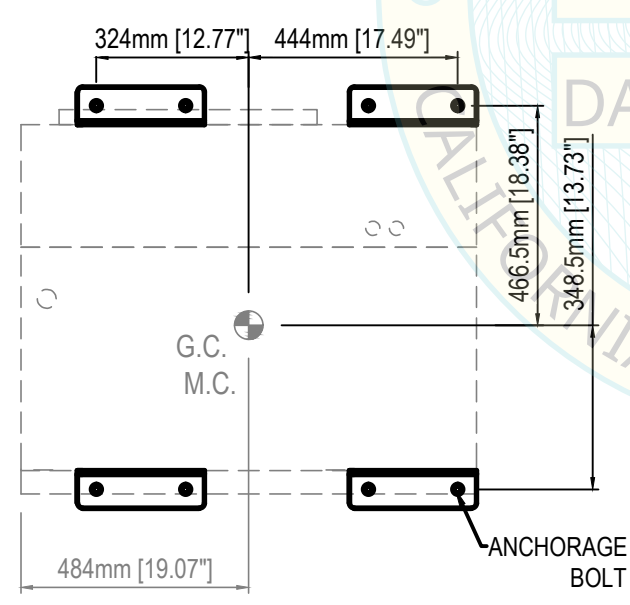
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16 § J5



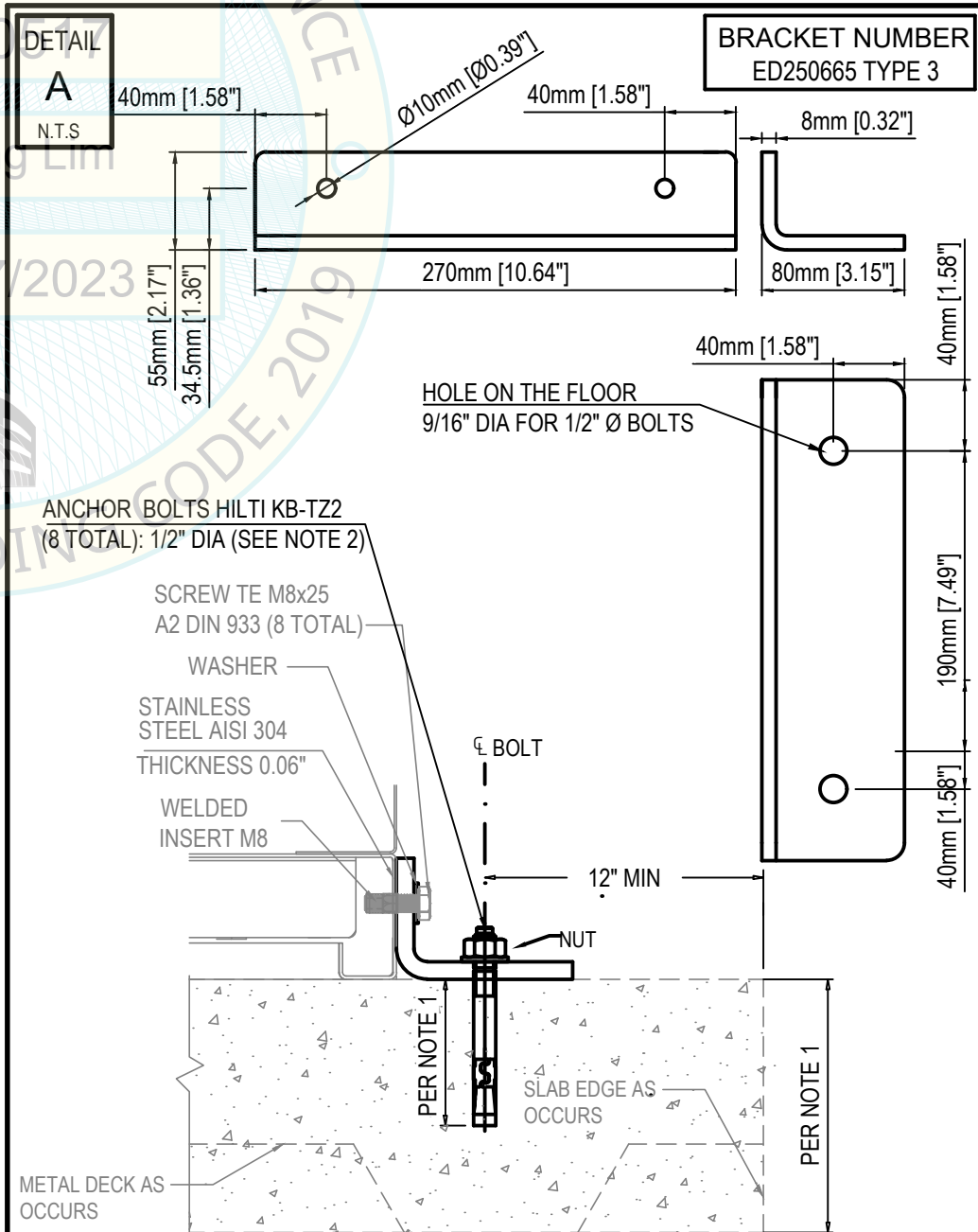
FRONT ANCHORAGE ELEVATION
N.T.S



SIDE ANCHORAGE ELEVATION
N.T.S



ANCHORAGE LAYOUT @ BASE
N.T.S



Steelco
ED 250/1 FRONTAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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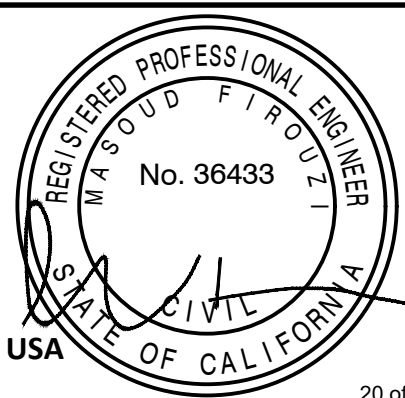
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619.997.9997



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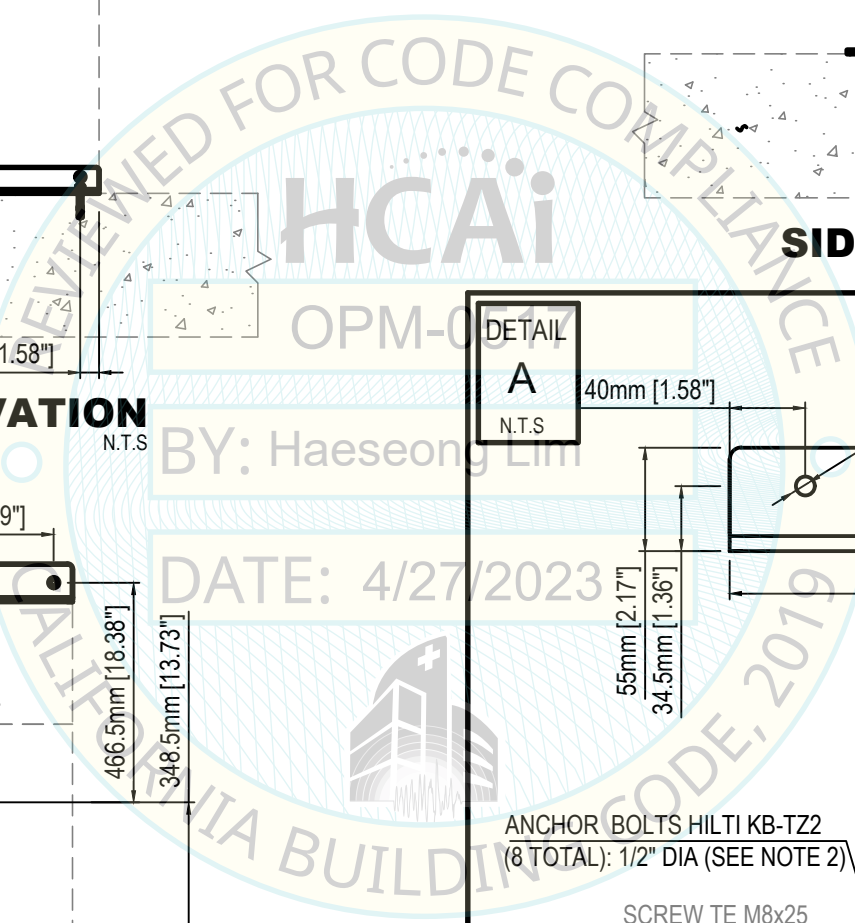
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DATE:

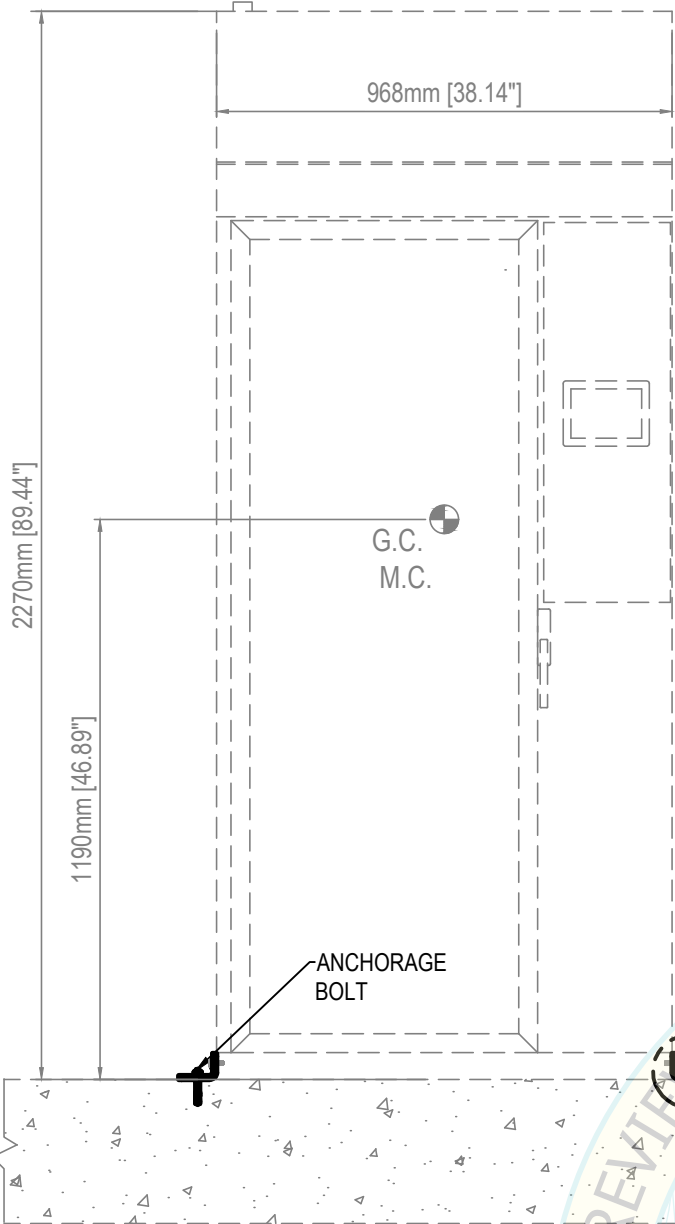
APRIL 06

2023



STEELCO DRYING
CABINET MODEL N° ED 250/1
LATERAL SUPPORT

WEIGHT= 954 POUNDS
G.C.= Gravity center
M.C.= Mass center



FRONT ANCHORAGE ELEVATION
N.T.S

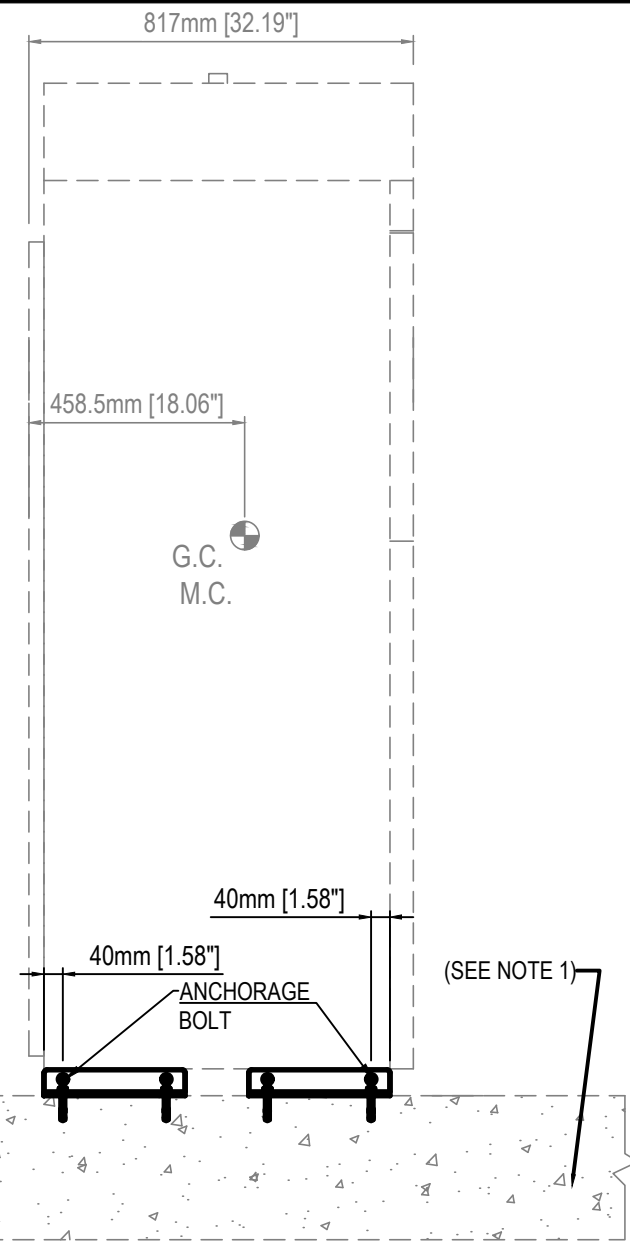
NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:
1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

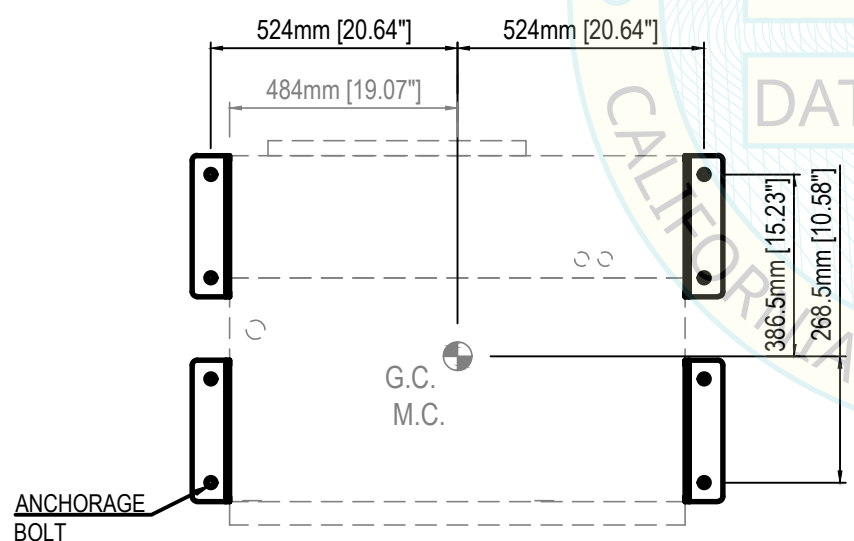
2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

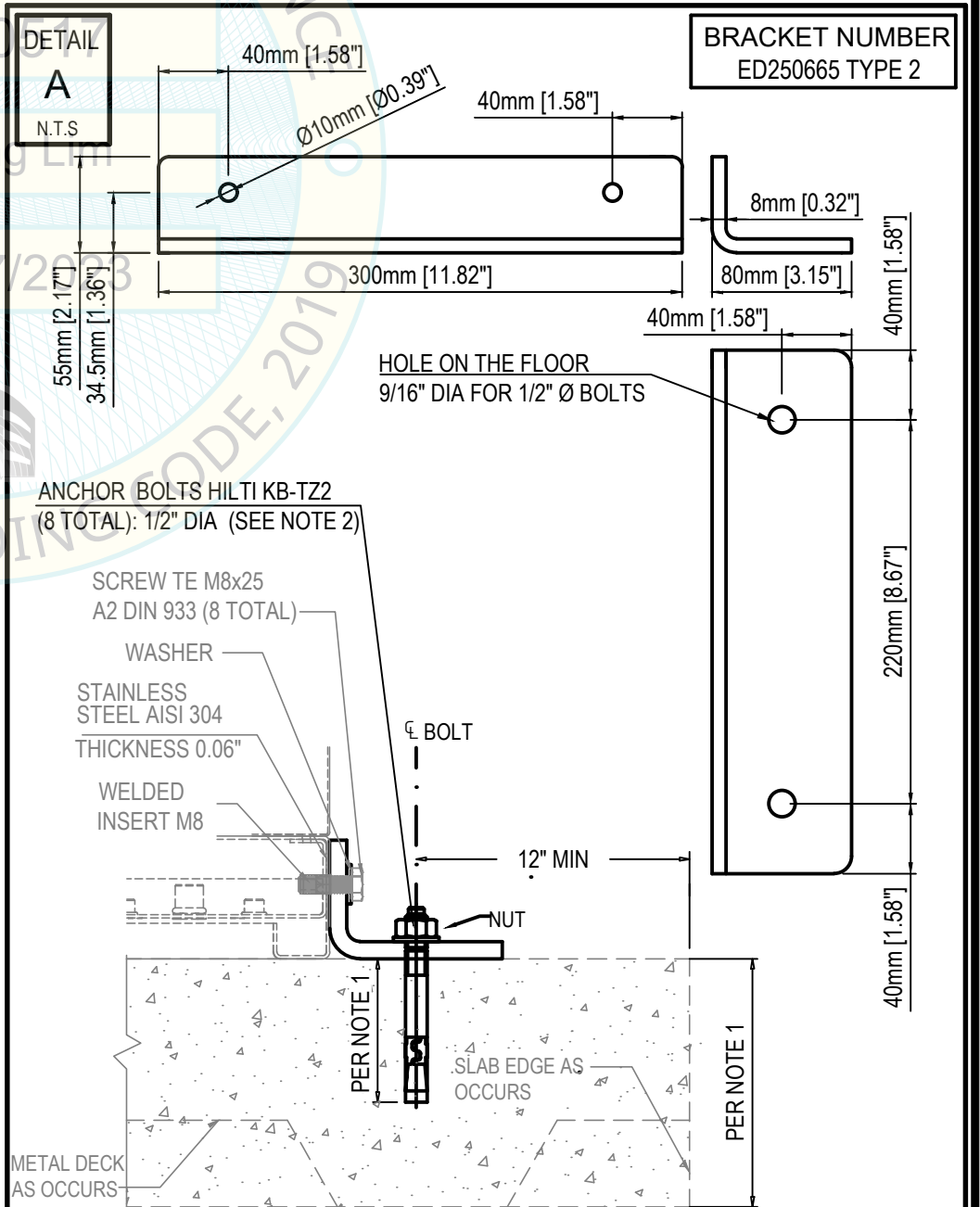
NOTE 2
PROVIDE SHIMS (FILLERS) $\leq \frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16 § J5



SIDE ANCHORAGE ELEVATION
N.T.S



ANCHORAGE LAYOUT @ BASE
N.T.S



BRACKET NUMBER
ED250665 TYPE 2

ANCHOR BOLTS HILTI KB-TZ2
(8 TOTAL): 1/2" DIA (SEE NOTE 2)

SCREW TE M8x25
A2 DIN 933 (8 TOTAL)

WASHER

STAINLESS STEEL AISI 304
THICKNESS 0.06"

WELDED INSERT M8

12" MIN

NUT

PER NOTE 1

SLAB EDGE AS OCCURS

METAL DECK AS OCCURS

STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

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SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997

REGISTERED PROFESSIONAL ENGINEER
MASOUD FIROUZI
No. 36433
STATE OF CALIFORNIA

PAGE:
19
OF 45
DATE:
APRIL 06
2023

Steelco
ED 250/1 LATERAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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STEELCO DRYING
CABINET MODEL N° ED 250/2
FRONTAL SUPPORT

WEIGHT= 990 POUNDS
G.C.= Gravity center
M.C.= Mass center

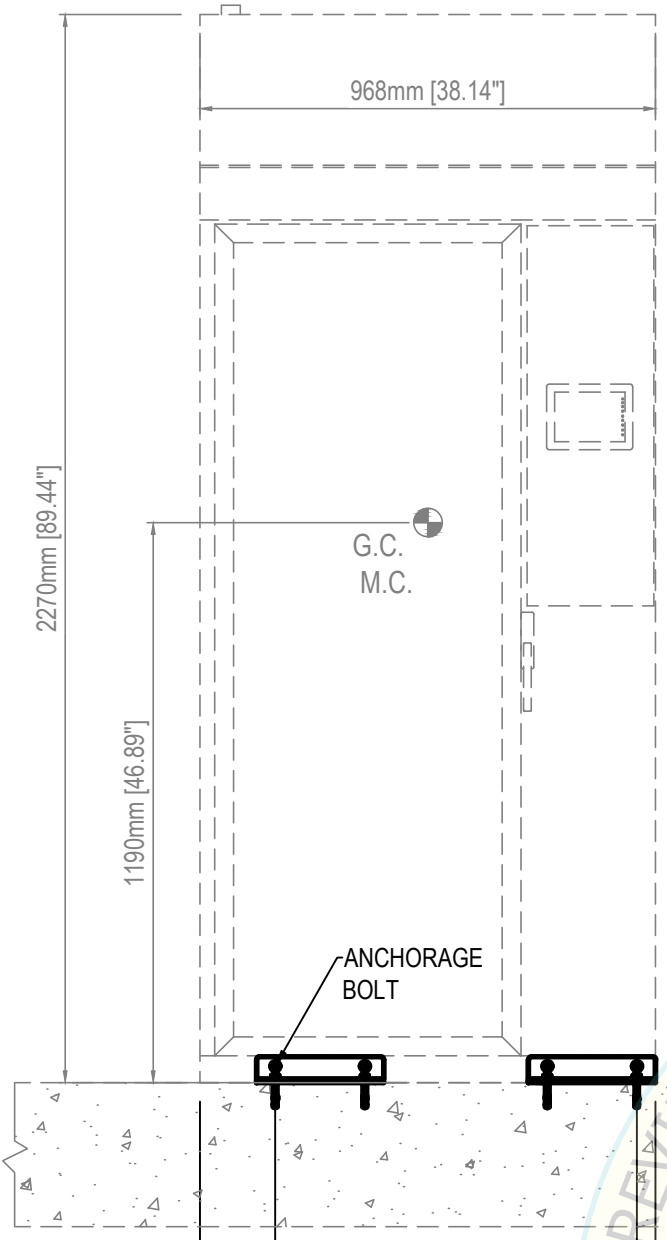
NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:
1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

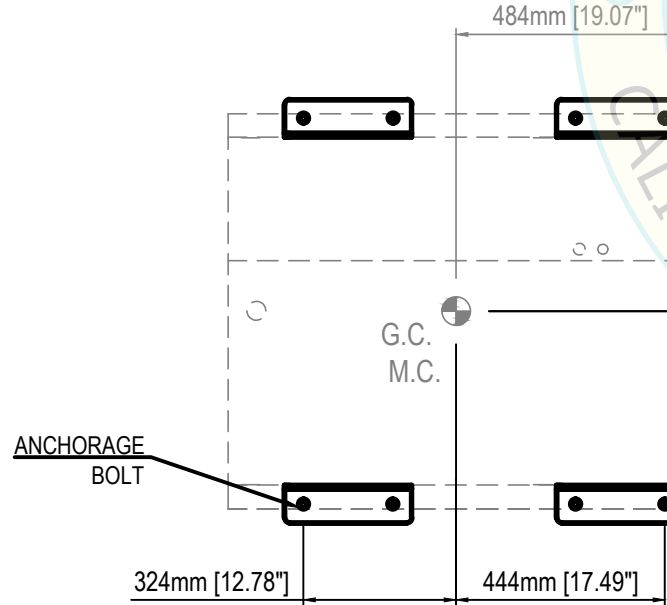
2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

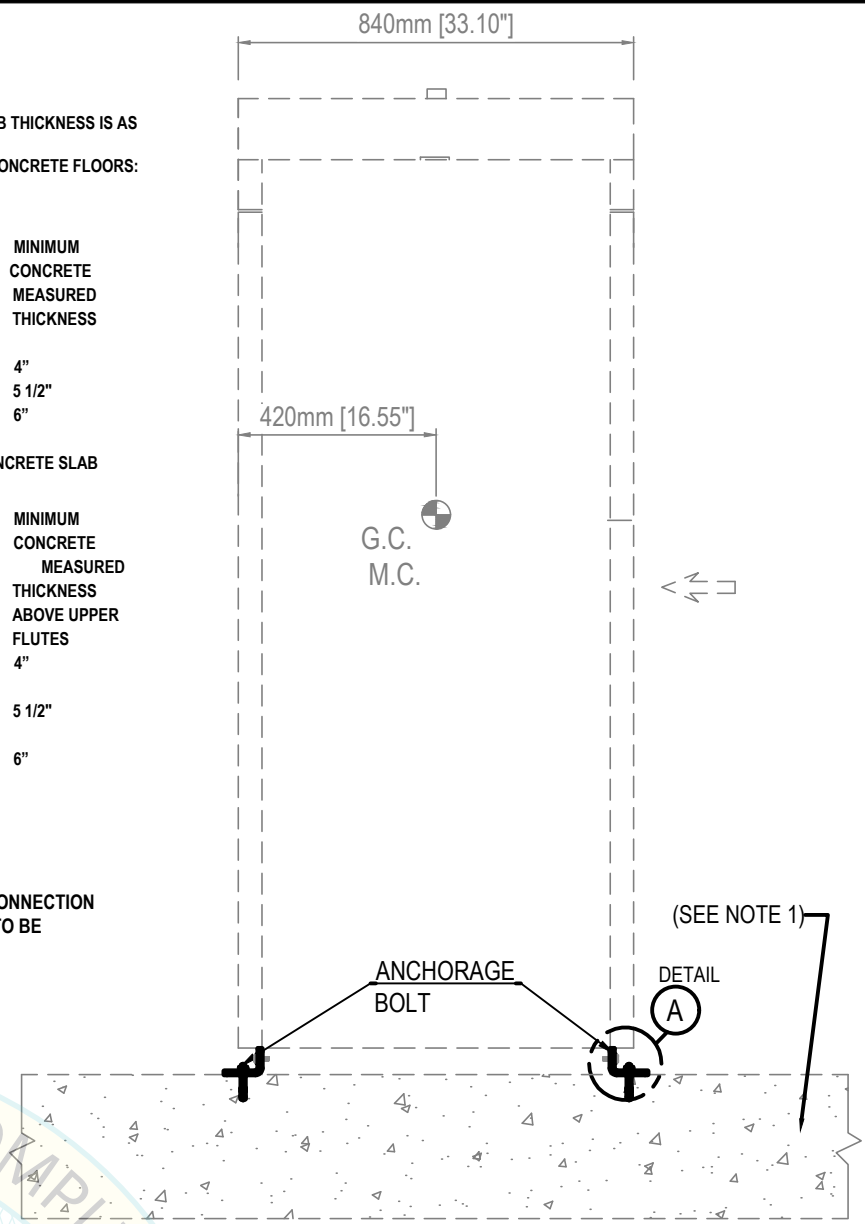
NOTE 2
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16 § J5



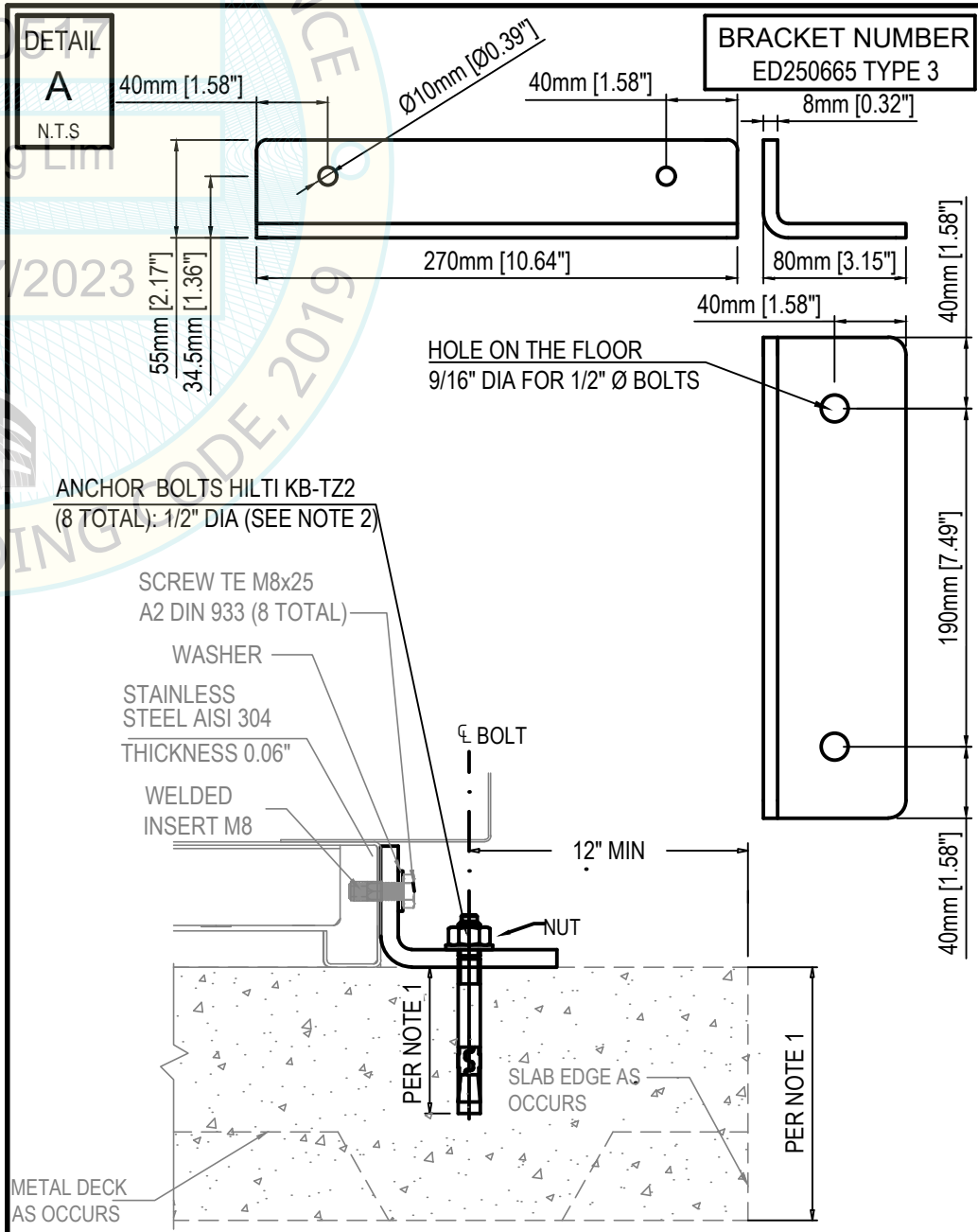
FRONT ANCHORAGE ELEVATION



ANCHORAGE LAYOUT @ BASE



SIDE ANCHORAGE ELEVATION



Steelco
ED 250/2 FRONTAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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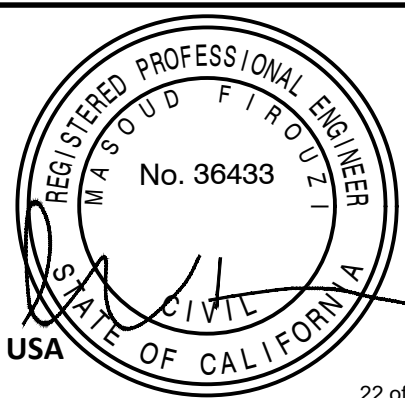
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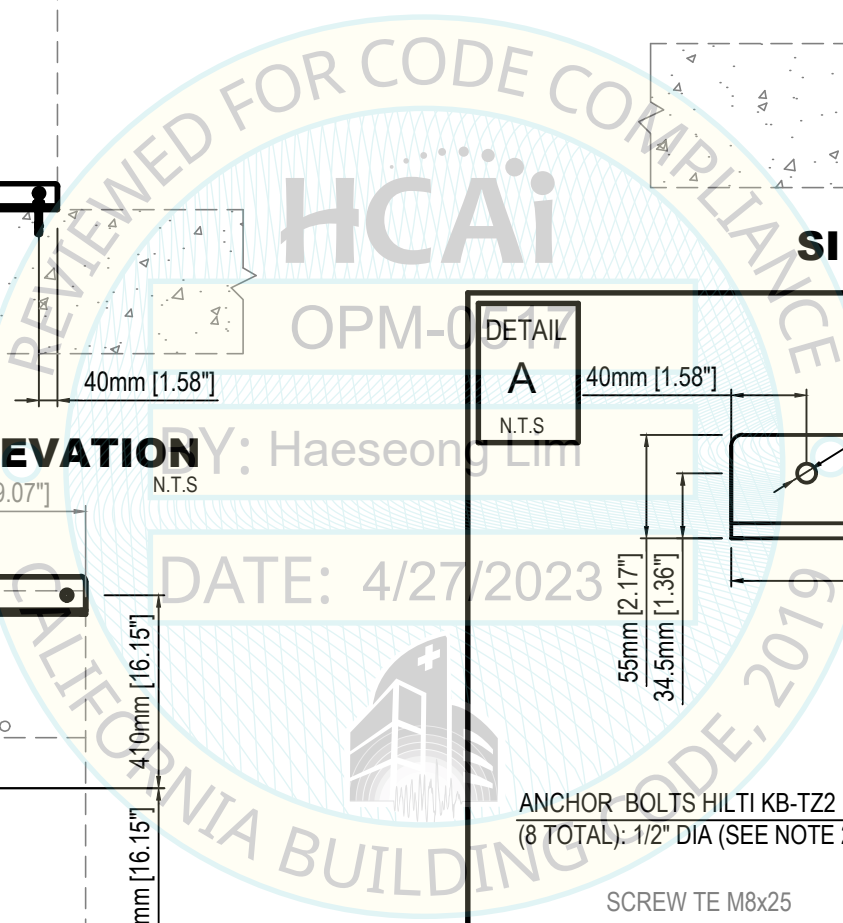
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FIROUZI CONSULTING ENGINEERS, INC.

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SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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APRIL 06
2023



STEELCO DRYING
CABINET MODEL N° ED 250/2
LATERAL SUPPORT

WEIGHT= 990 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

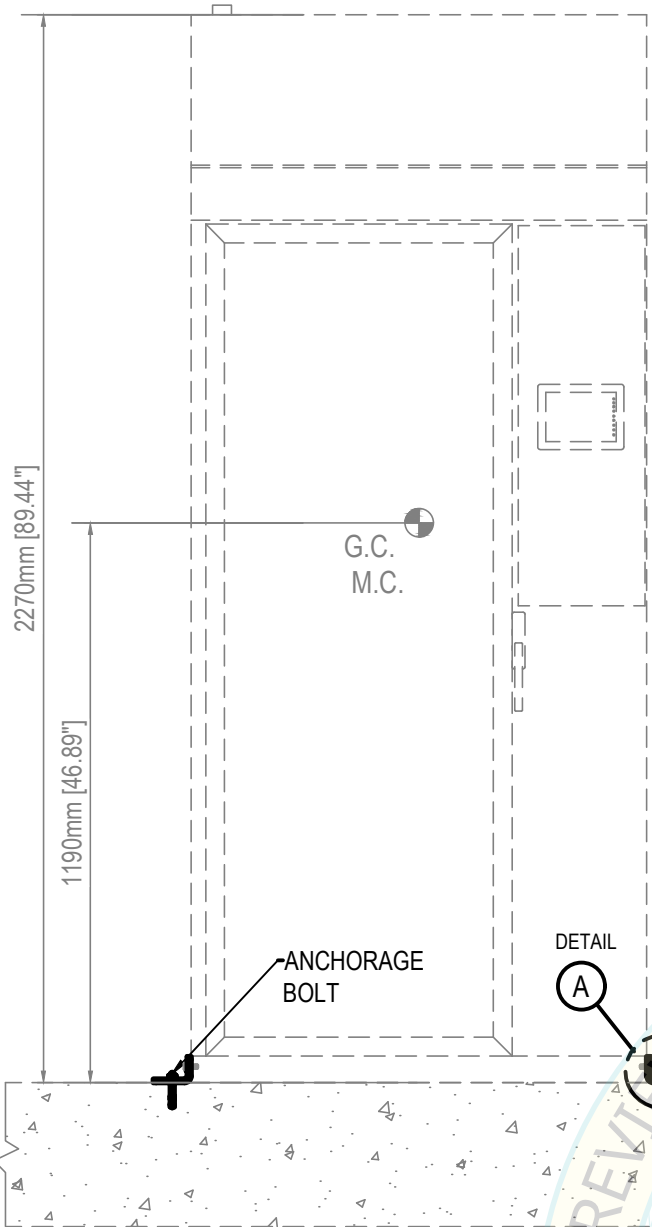
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

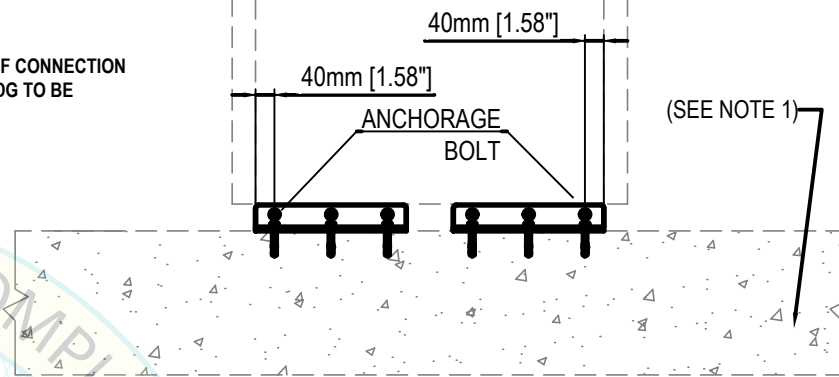
NOTE 2

PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16§ J5



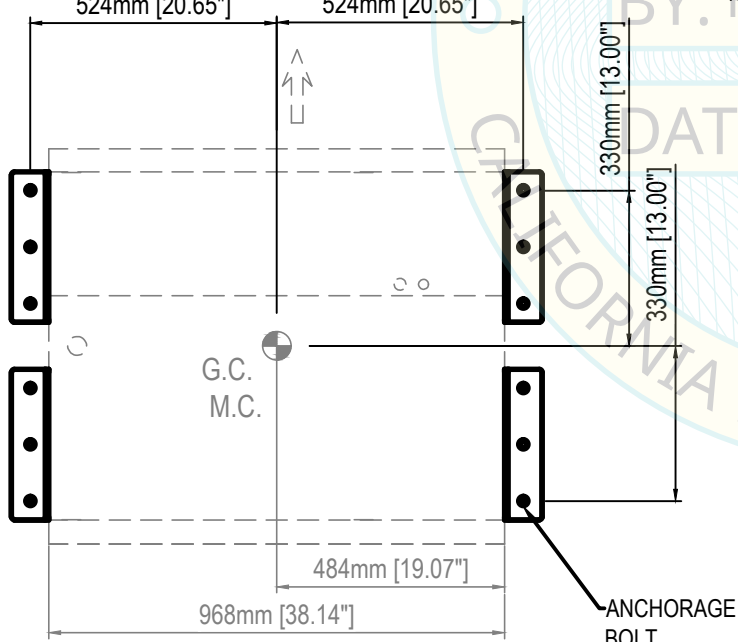
FRONT ANCHORAGE ELEVATION

N.T.S.



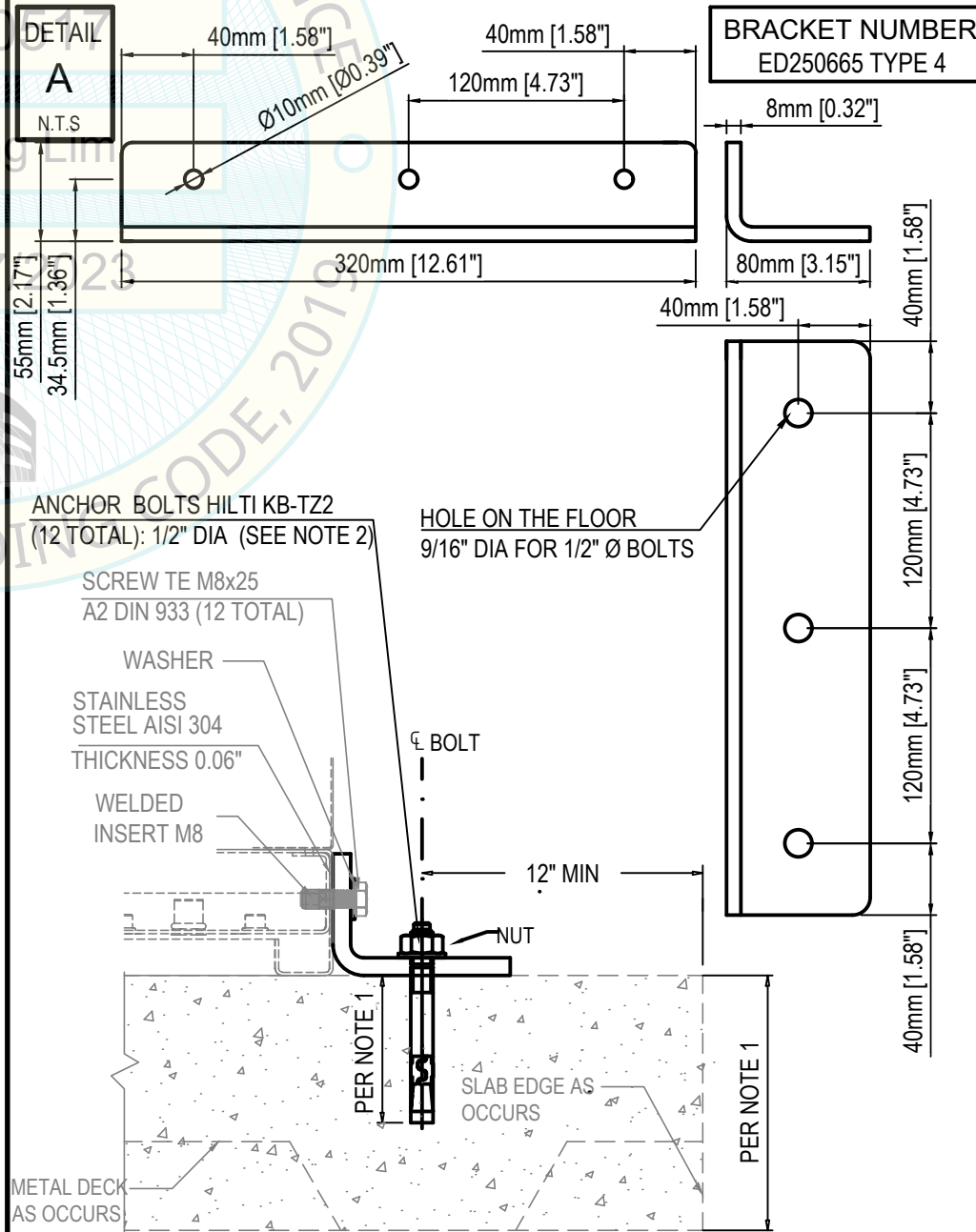
SIDE ANCHORAGE ELEVATION

N.T.S.



ANCHORAGE LAYOUT @ BASE

N.T.S.



BRACKET NUMBER
ED250665 TYPE 4

ANCHOR BOLTS HILTI KB-TZ2
(12 TOTAL): 1/2" DIA (SEE NOTE 2)

SCREW TE M8x25
A2 DIN 933 (12 TOTAL)

WASHER
STAINLESS
STEEL AISI 304
THICKNESS 0.06"

WELDED
INSERT M8

HOLE ON THE FLOOR
9/16" DIA FOR 1/2" Ø BOLTS

METAL DECK
AS OCCURS

SLAB EDGE AS
OCCURS

Steelco
ED 250/2 LATERAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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**FIROUZI
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ENGINEERS, INC.**

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SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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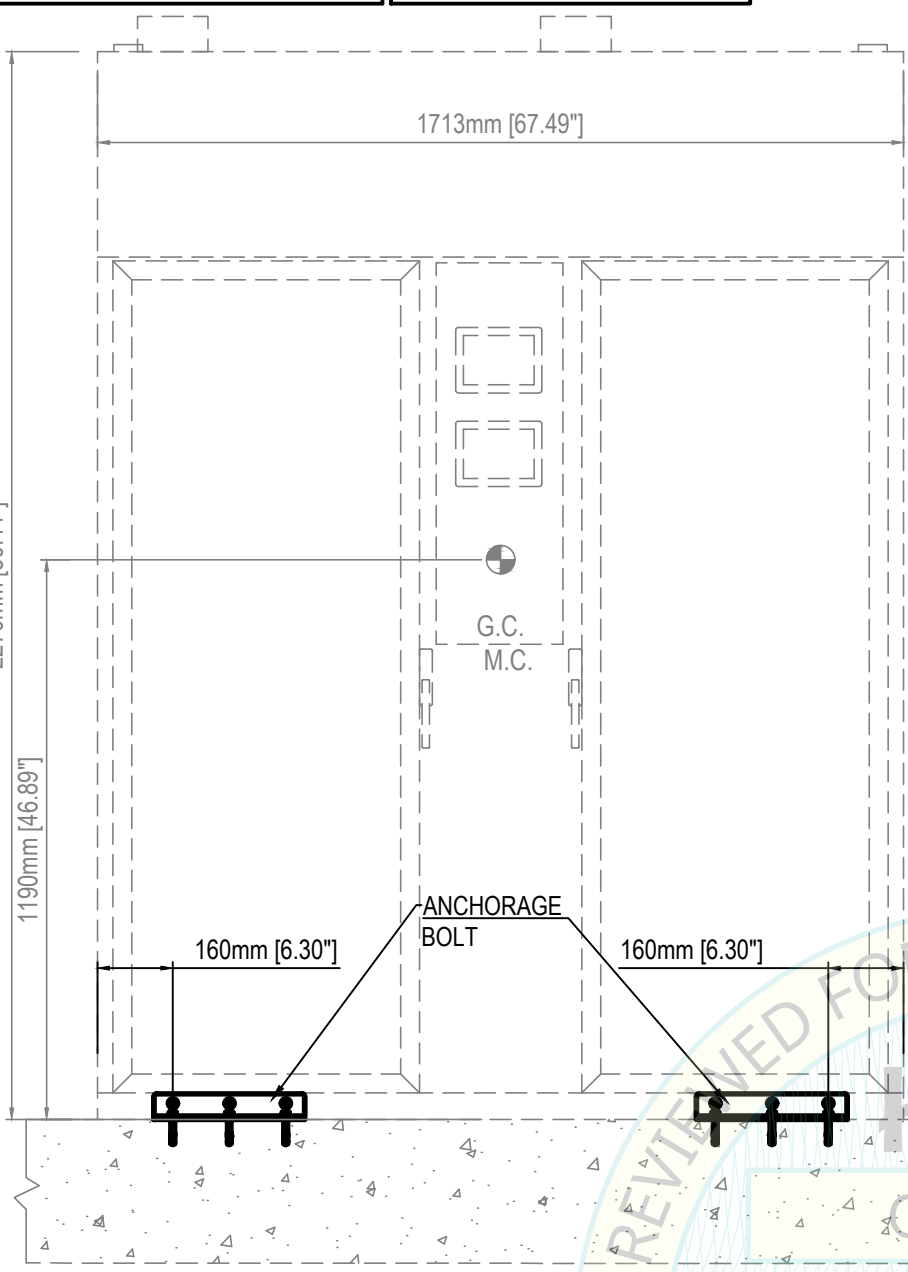
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APRIL 06

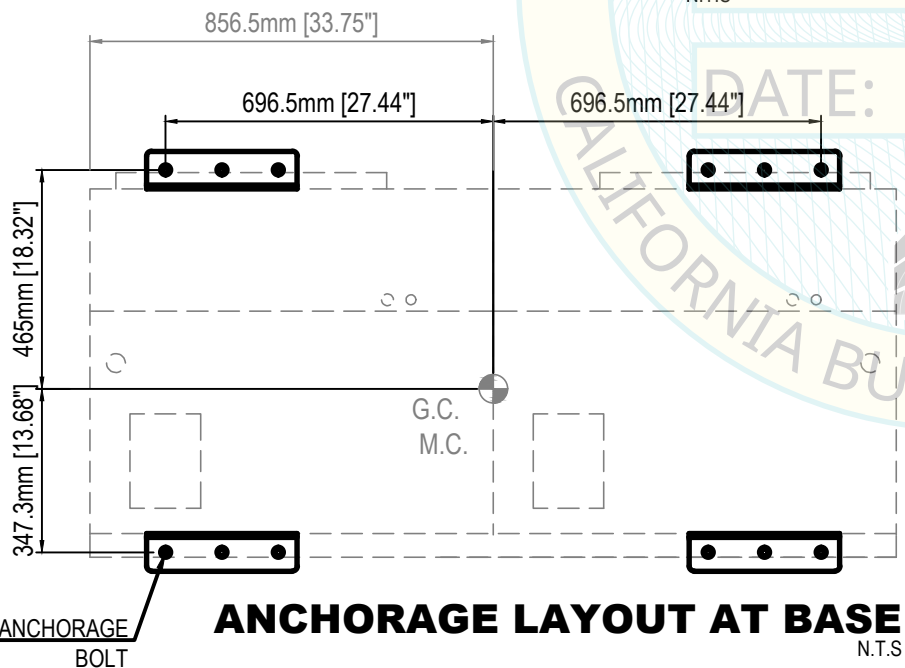
2023

STEELCO DRYING
CABINET MODEL N° ED 250/3
FRONTAL SUPPORT

WEIGHT= 1600 POUNDS
G.C.= Gravity center
M.C.= Mass center



FRONT ANCHORAGE ELEVATION



ANCHORAGE LAYOUT AT BASE

NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

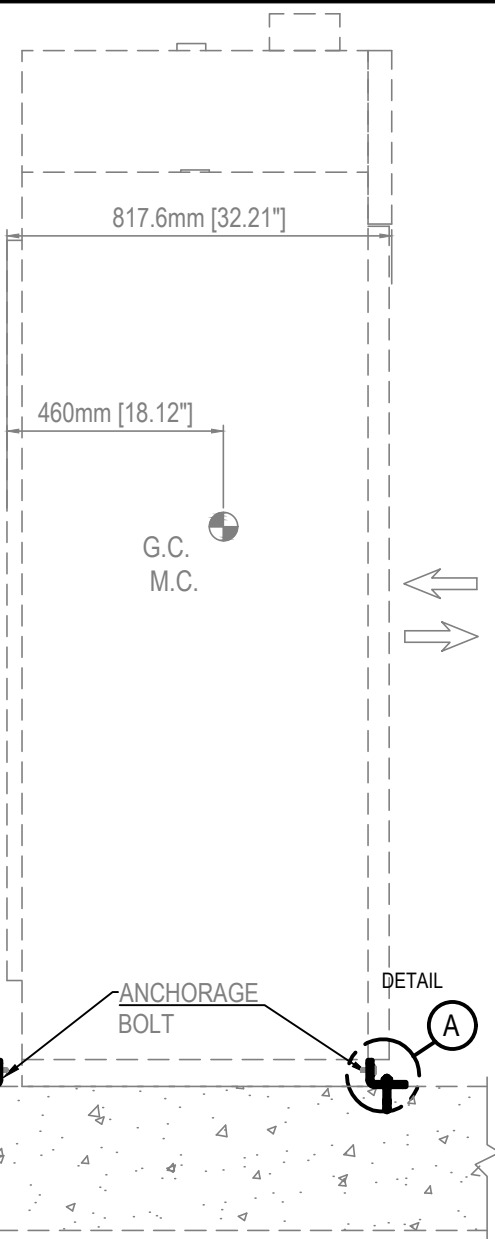
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f _c =3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

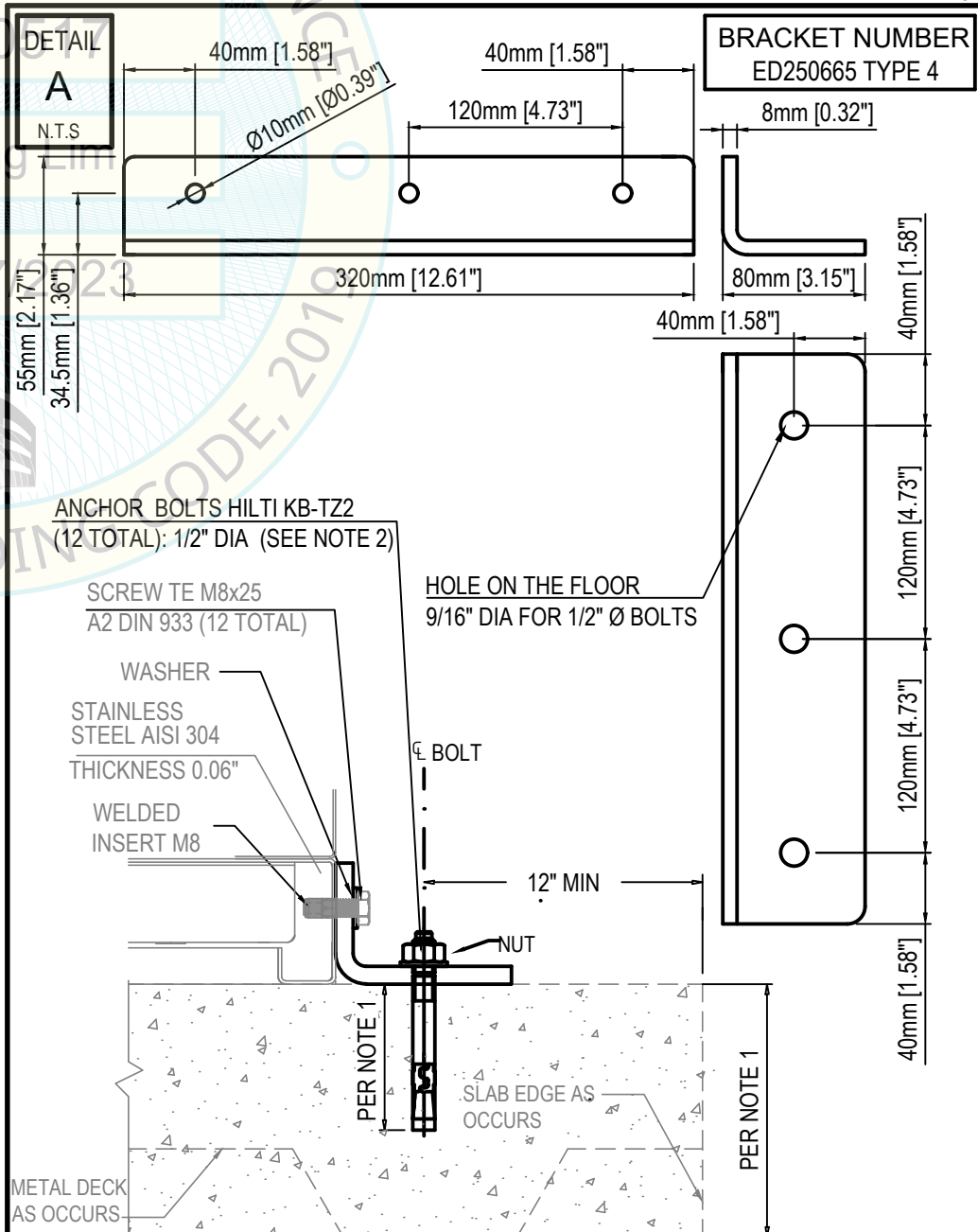
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f _c =3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16§ J5



SIDE ANCHORAGE ELEVATION



Steelco
ED 250/3 FRONTAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

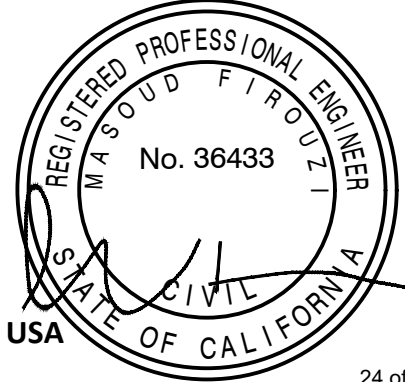
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VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
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OPM 0517-19
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STRUCTURAL DESIGN BY:
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SAN DIEGO, CALIFORNIA, 92130. USA
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2023

STEELCO DRYING
CABINET MODEL N° ED 250/3
LATERAL SUPPORT

WEIGHT= 1600 POUNDS
G.C.= Gravity center
M.C.= Mass center

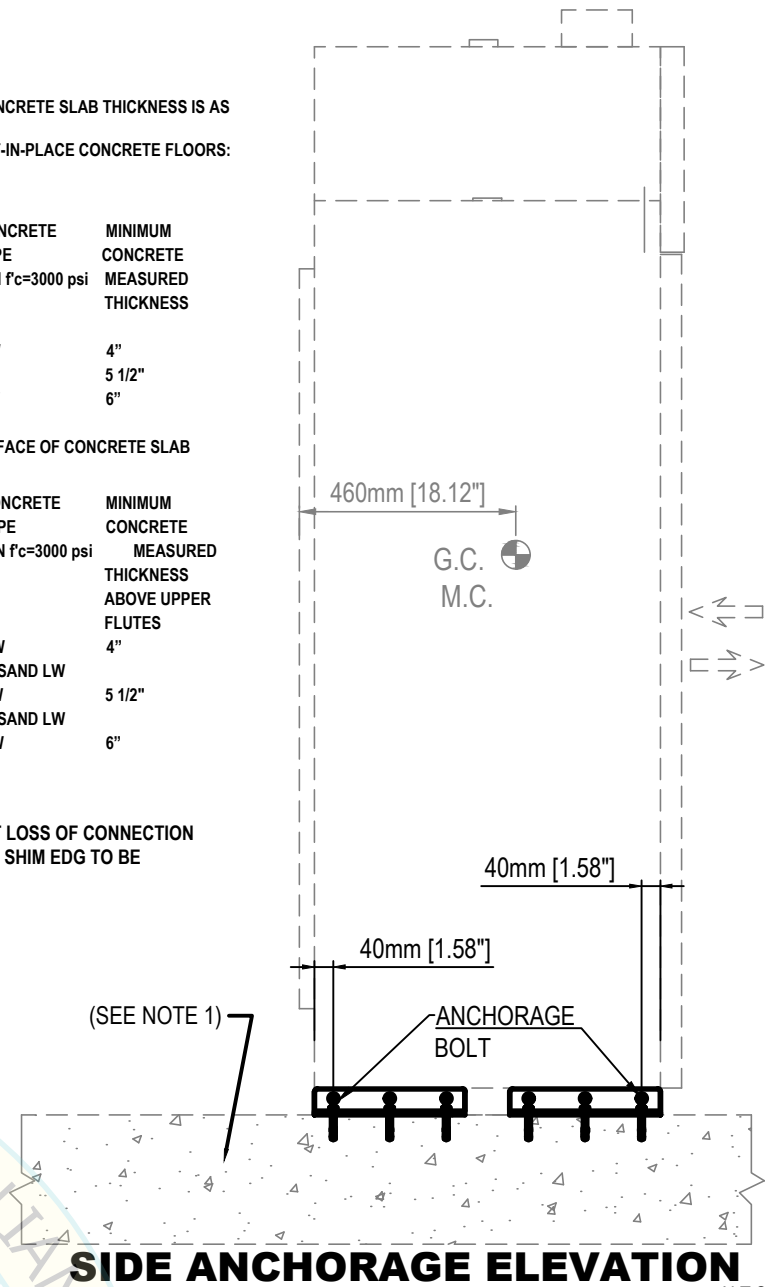
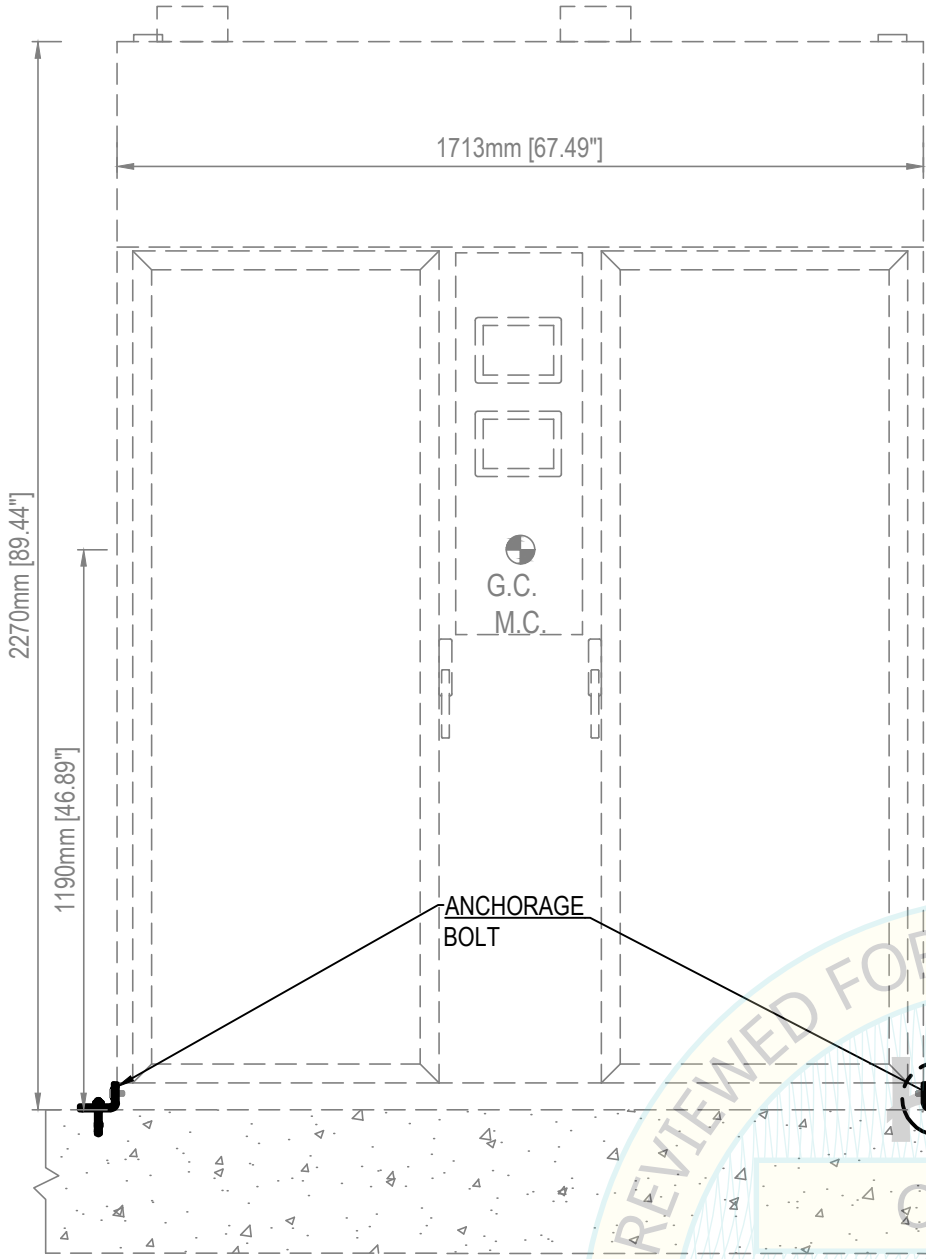
NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:
1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

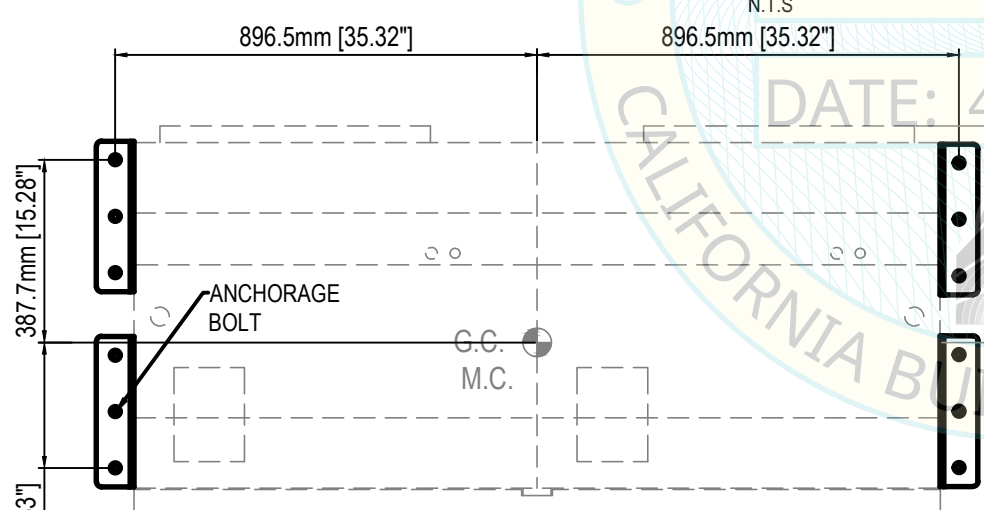
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION
CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE
FLUSH W/PL. REFER TO AISC 360-168 J5

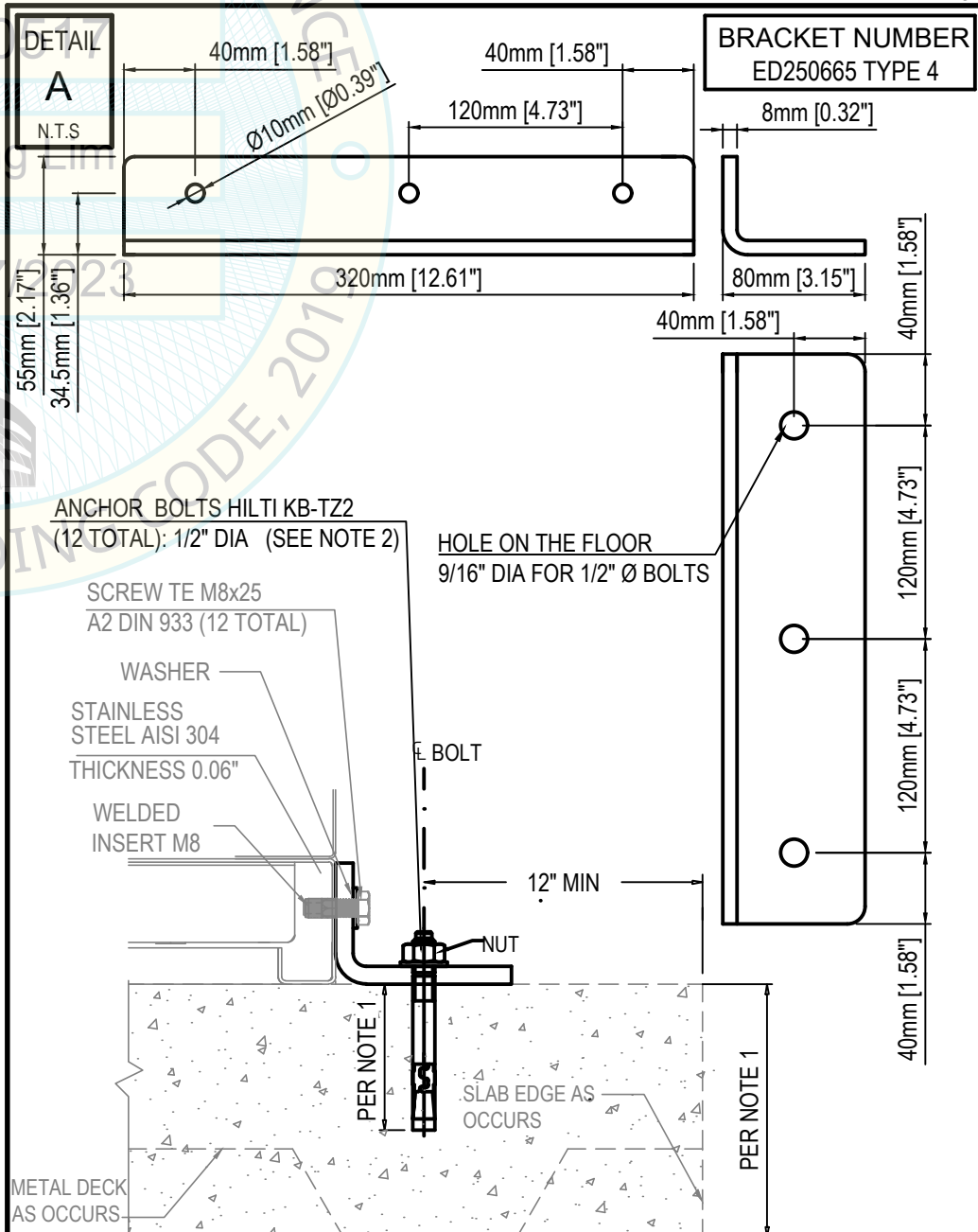


SIDE ANCHORAGE ELEVATION N.T.S.

FRONT ANCHORAGE ELEVATION N.T.S.



ANCHORAGE LAYOUT AT BASE N.T.S.



DETAIL A N.T.S.

Steelco
ED 250/3 LATERAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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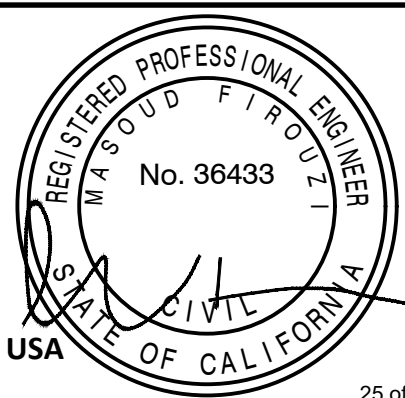
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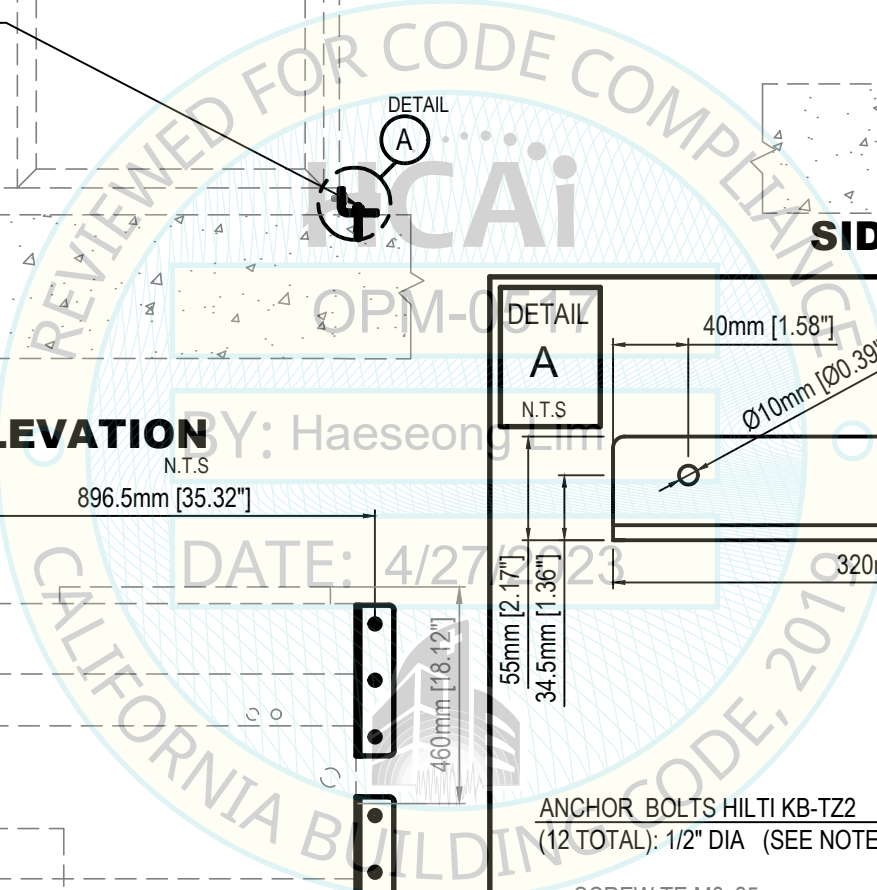
STRUCTURAL DESIGN BY:

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SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997

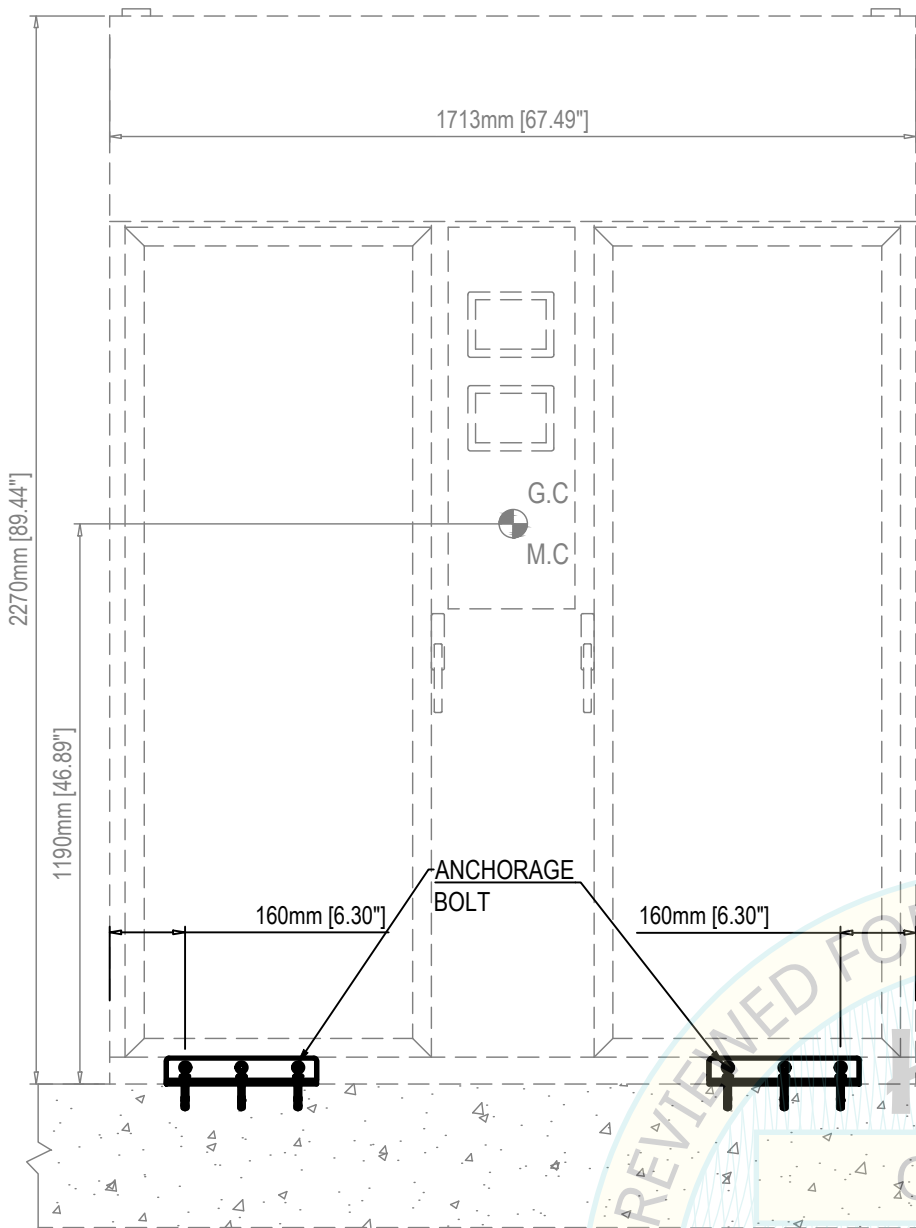


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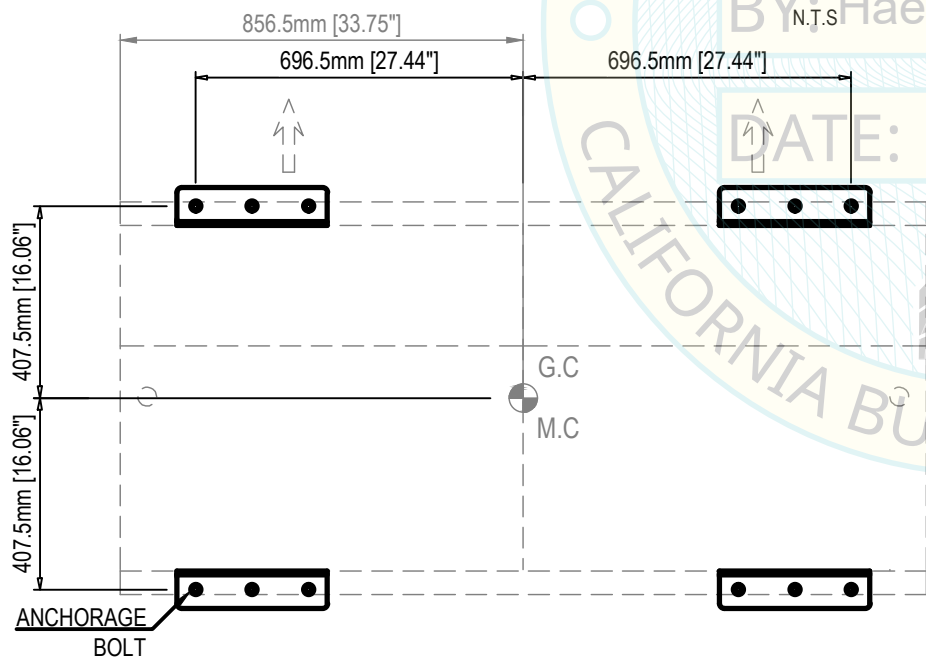


STEELCO DRYING
CABINET MODEL N° ED 250/4
FRONTAL SUPPORT

WEIGHT= 1693 POUNDS
G.C.= Gravity center
M.C.= Mass center



FRONT ANCHORAGE ELEVATION



ANCHORAGE LAYOUT AT BASE

NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

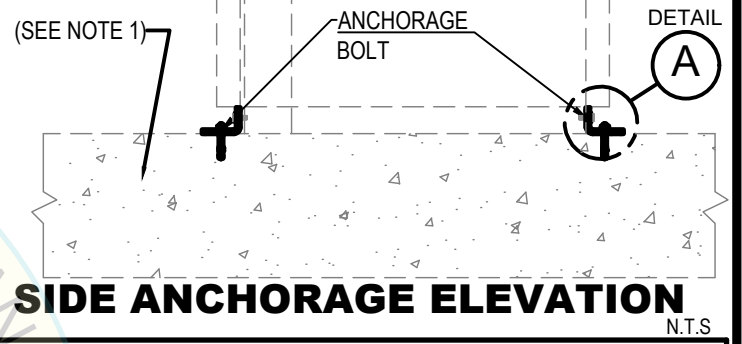
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

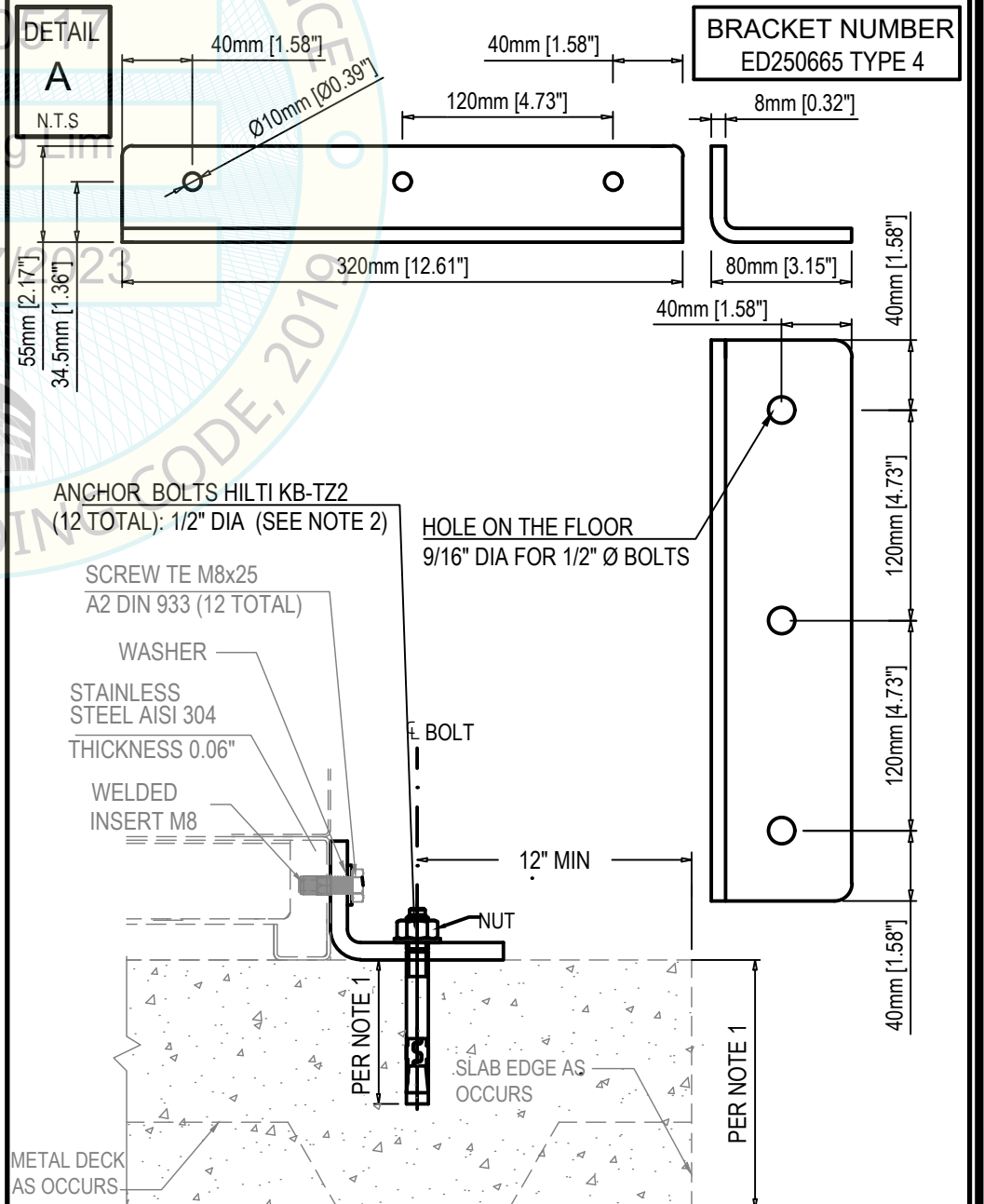
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

NOTE 2

PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16§ J5



SIDE ANCHORAGE ELEVATION



Steelco
ED 250/4 FRONTAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
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619.997.9997

REGISTERED PROFESSIONAL ENGINEER
MASOUD FIROUZI
No. 36433
STATE OF CALIFORNIA

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STEELCO DRYING
CABINET MODEL N° ED 250/4
LATERAL SUPPORT

WEIGHT= 1693 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

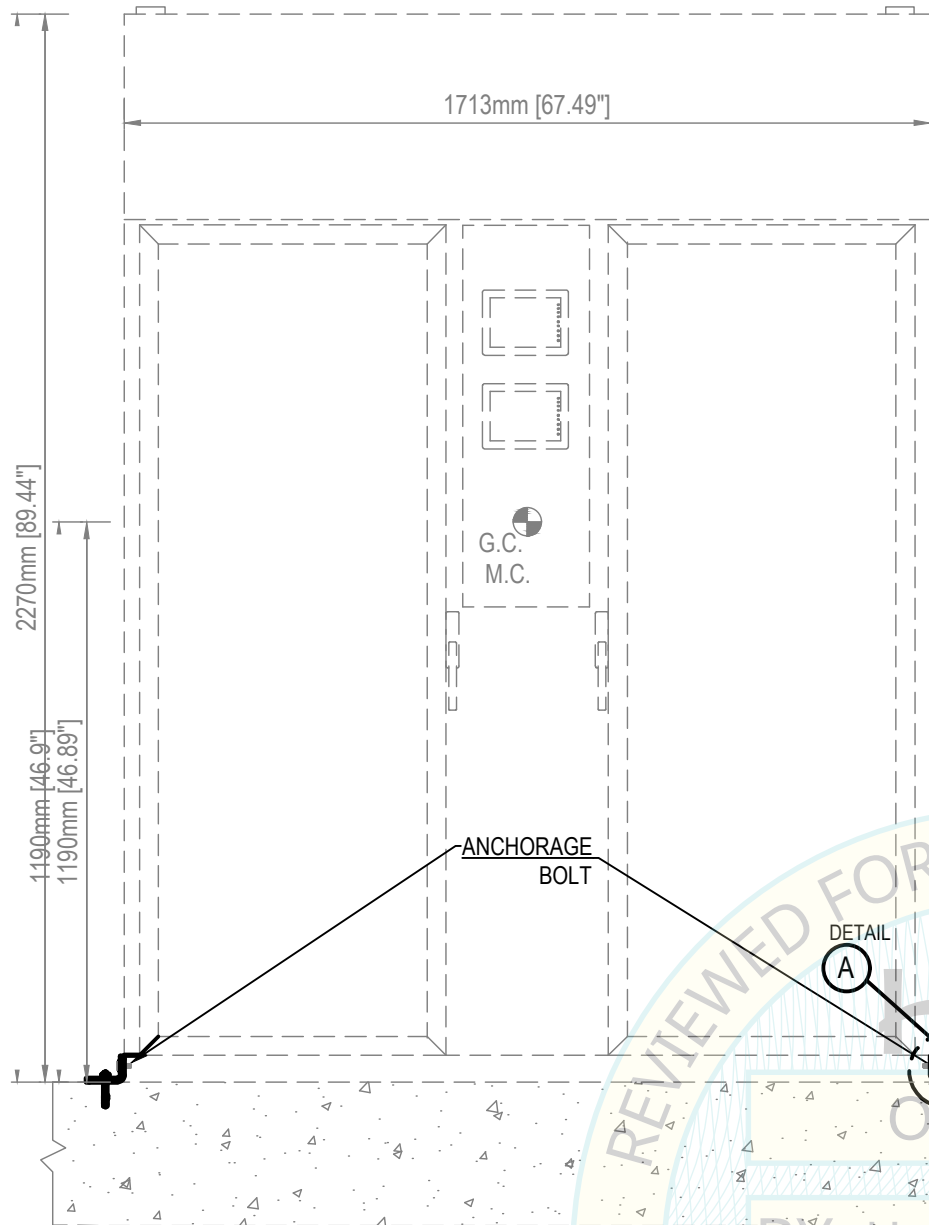
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

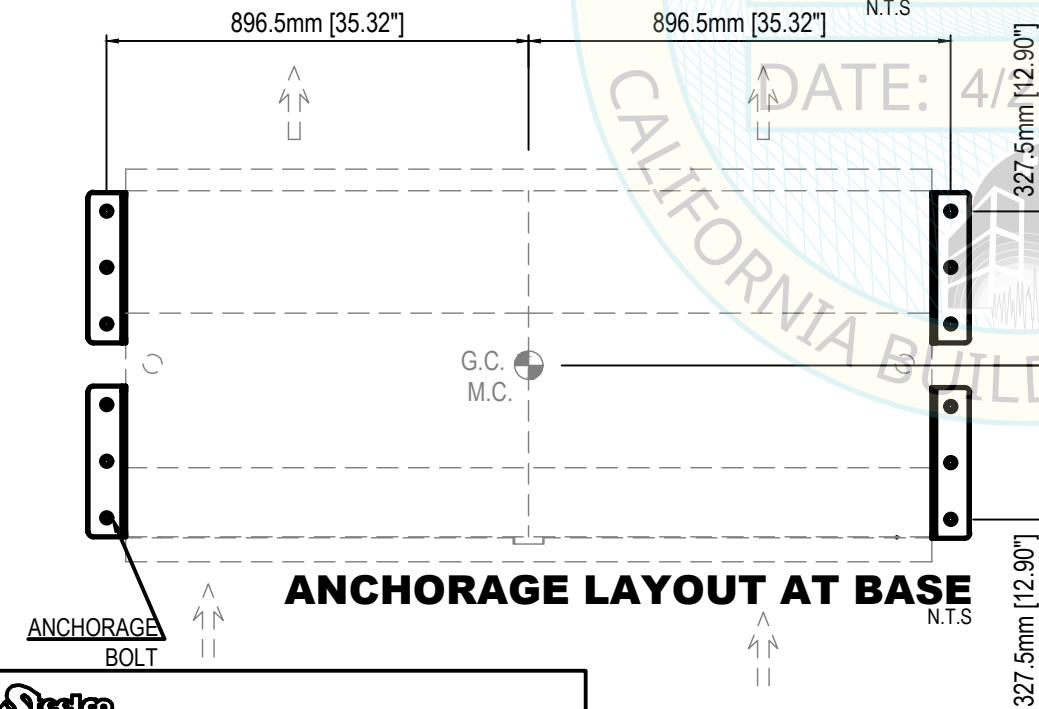
NOTE 2

PROVIDE SHIMS (FILLERS) $\leq \frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16 §J5

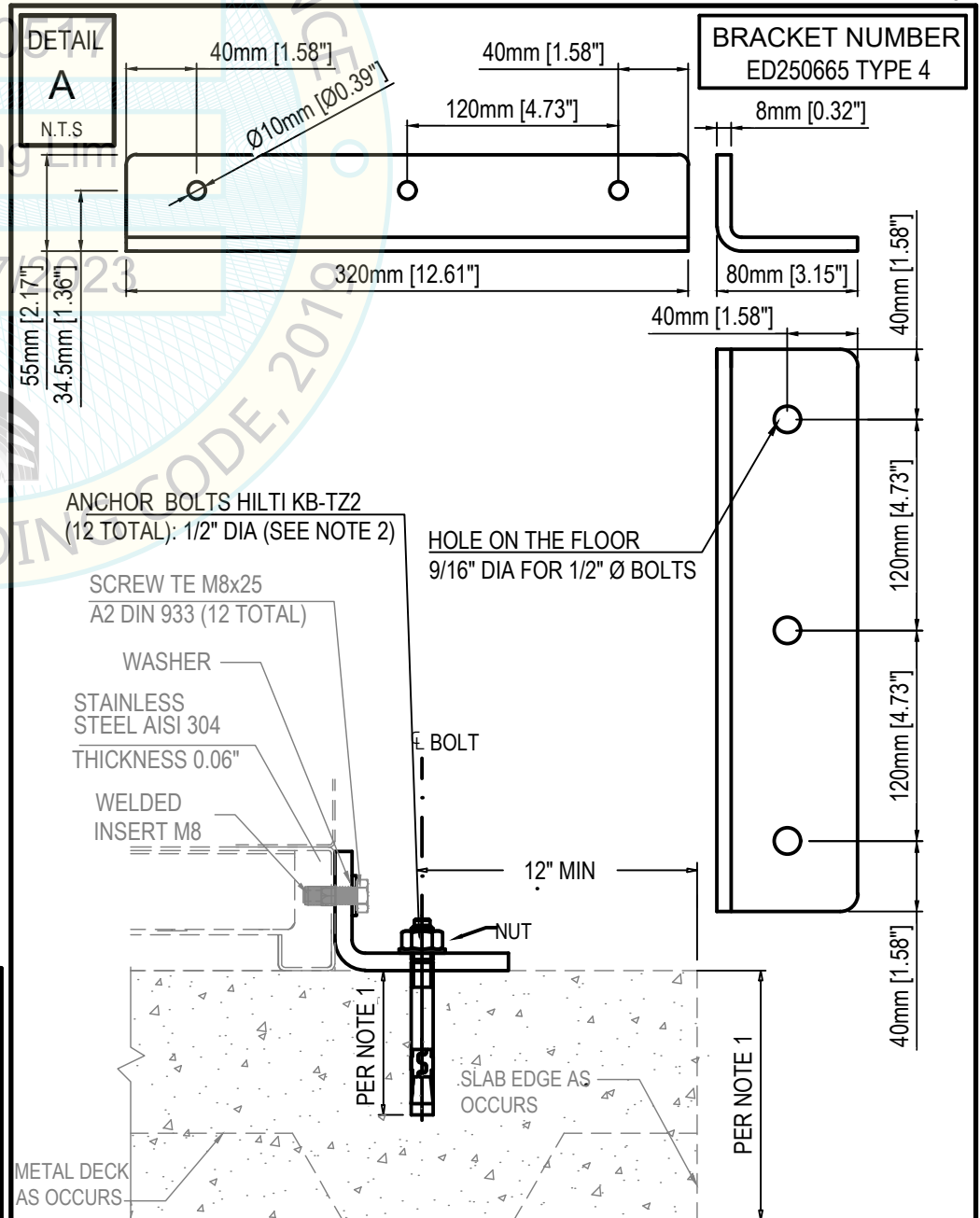


FRONT ANCHORAGE ELEVATION

SIDE ANCHORAGE ELEVATION



ANCHORAGE LAYOUT AT BASE



ANCHOR BOLTS HILTI KB-TZ2
(12 TOTAL): 1/2" DIA (SEE NOTE 2)

SCREW TE M8x25
A2 DIN 933 (12 TOTAL)

WASHER

STAINLESS
STEEL AISI 304
THICKNESS 0.06"

WELDED
INSERT M8

METAL DECK
AS OCCURS

HOLE ON THE FLOOR
9/16" DIA FOR 1/2" Ø BOLTS

12" MIN

NUT

PER NOTE 1

SLAB EDGE AS
OCCURS

PER NOTE 1

Steelco
ED 250/4 LATERAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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619.997.9997



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2023

STEELCO DRYING
CABINET MODEL N° ED 100/1
FRONTAL SUPPORT

WEIGHT= 671 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

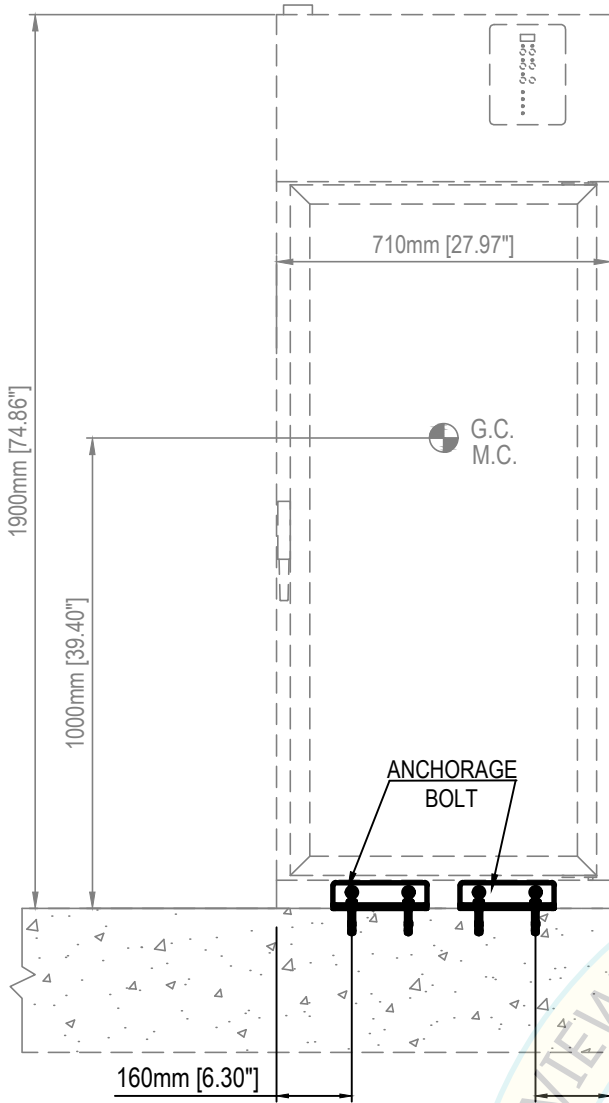
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

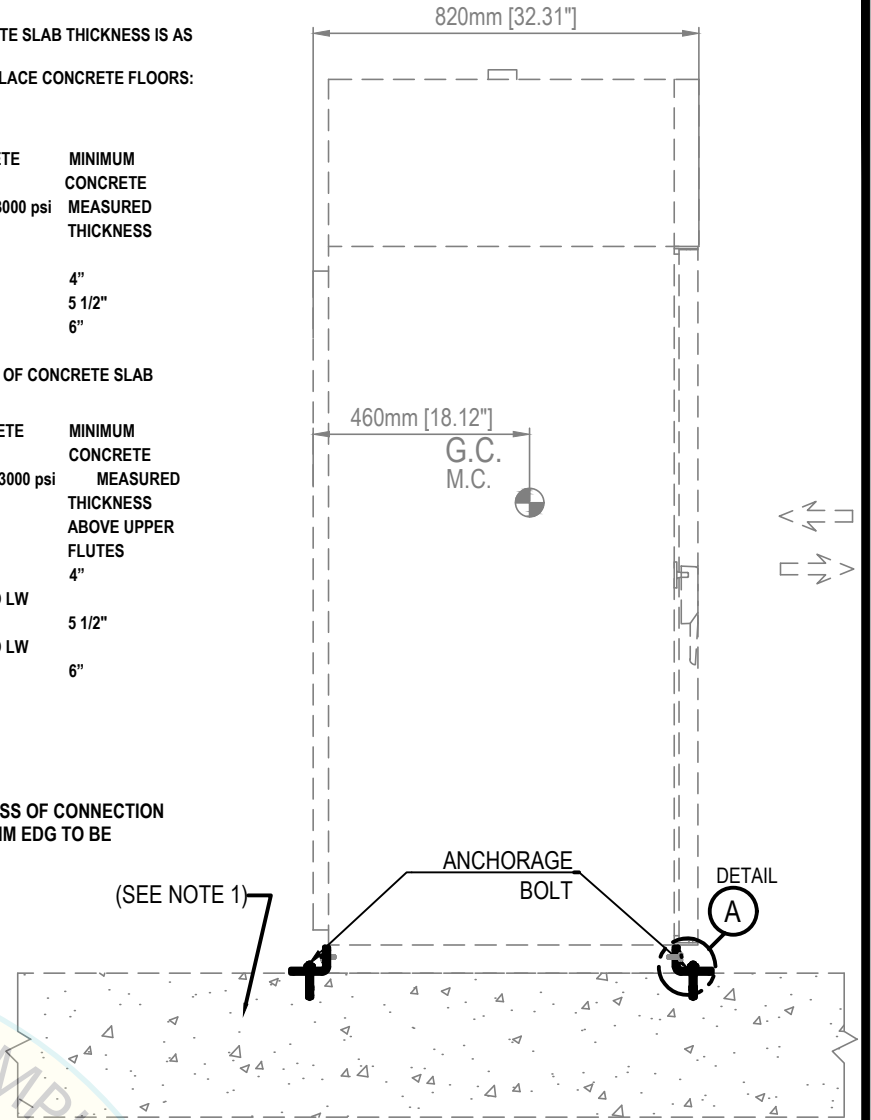
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

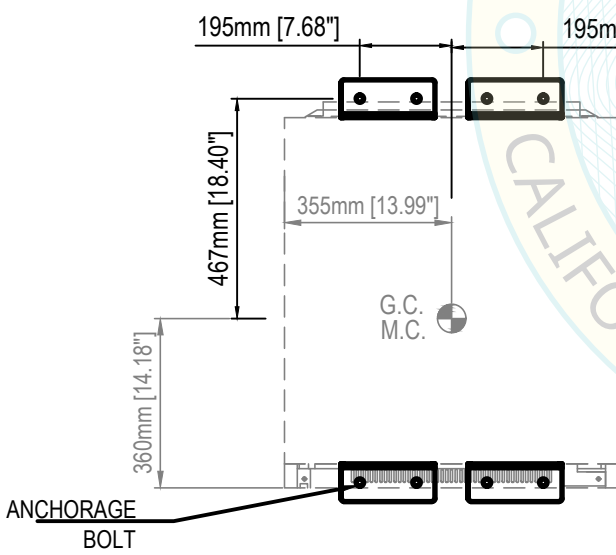
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16§ J5



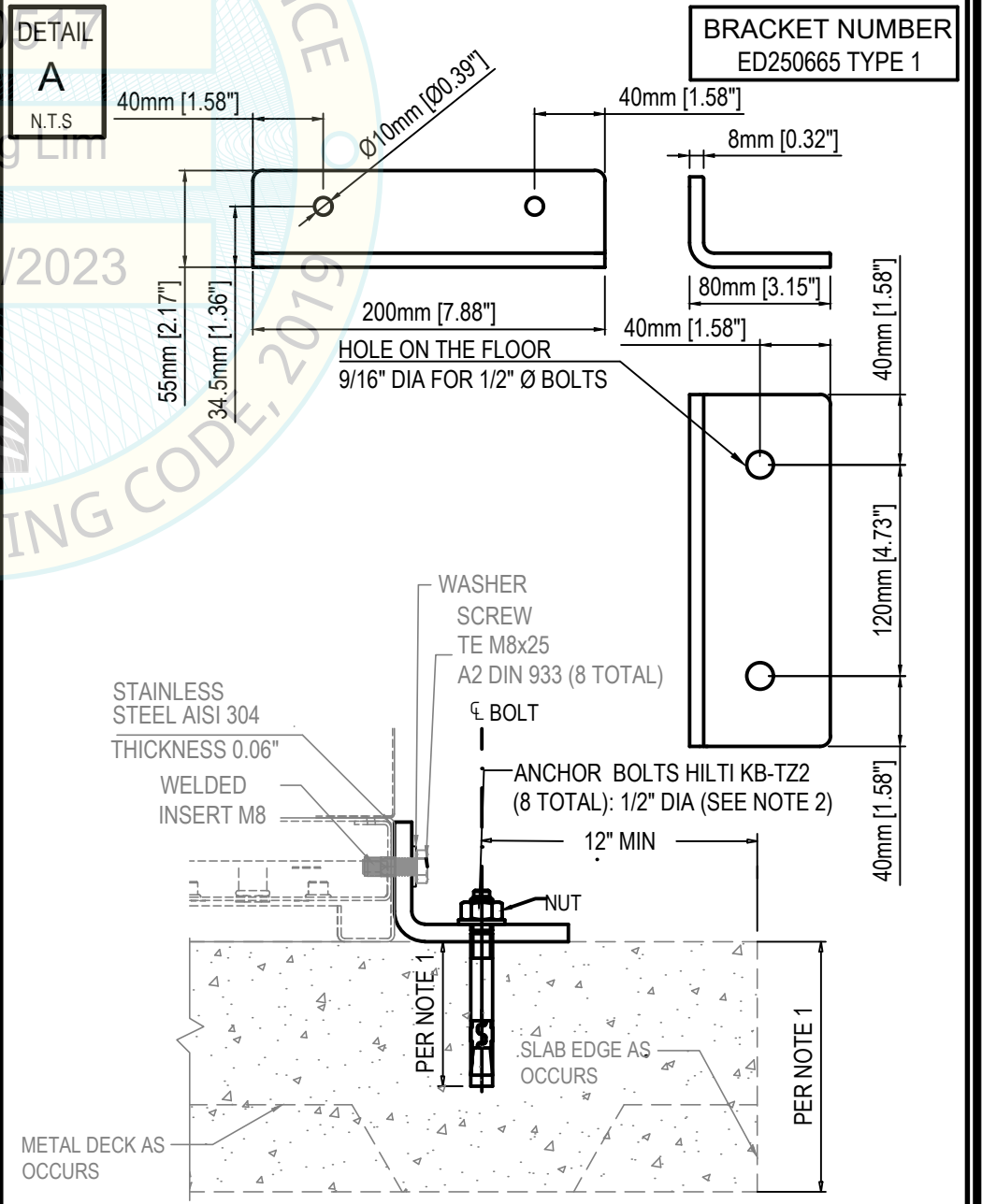
FRONT ANCHORAGE ELEVATION
N.T.S.



SIDE ANCHORAGE ELEVATION
N.T.S.



ANCHORAGE LAYOUT AT BASE
N.T.S.



STRUCTURAL DESIGN BY:

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Steelco
ED 100/1 FRONTAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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STEELCO DRYING
CABINET MODEL N° ED 100/1
LATERAL SUPPORT

WEIGHT= 671 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

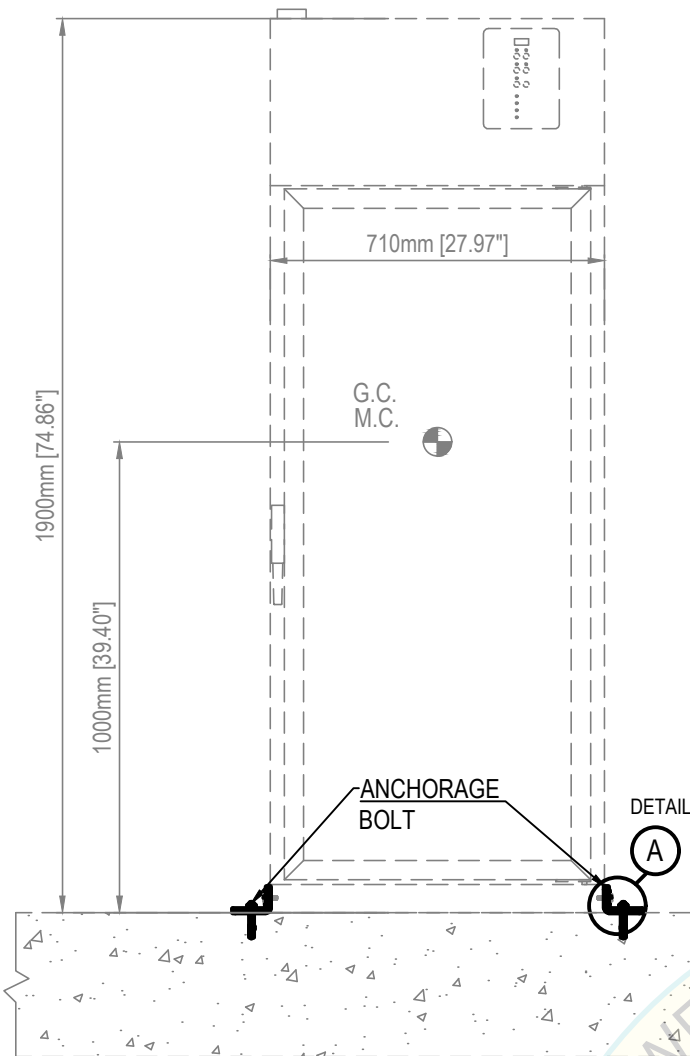
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

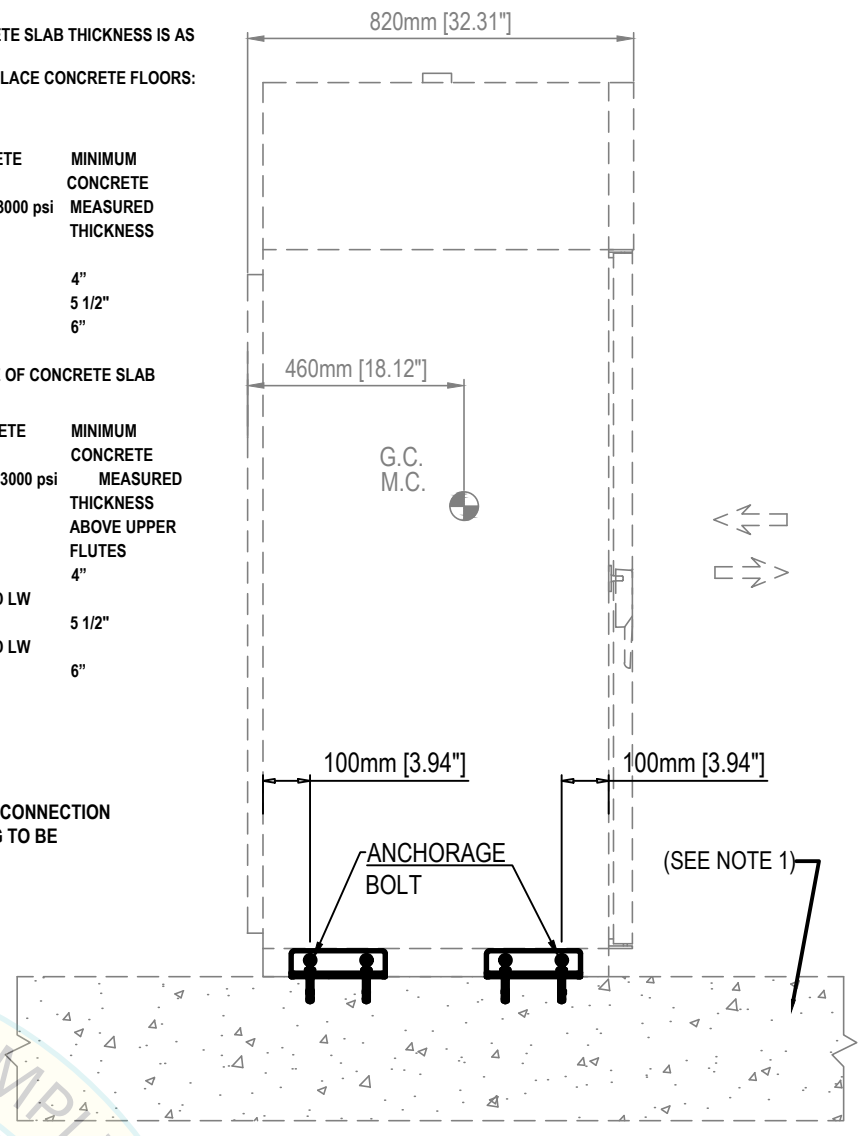
NOTE 2

PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION
CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE
FLUSH W/PL. REFER TO AISC 360-16§ J5



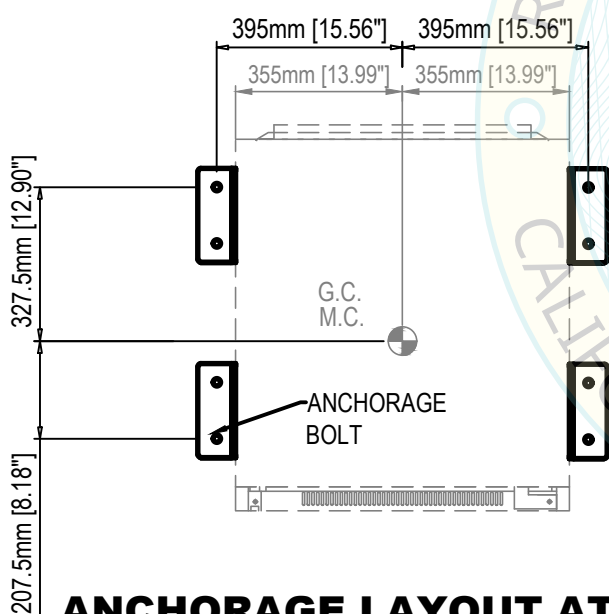
FRONT ANCHORAGE ELEVATION

N.T.S



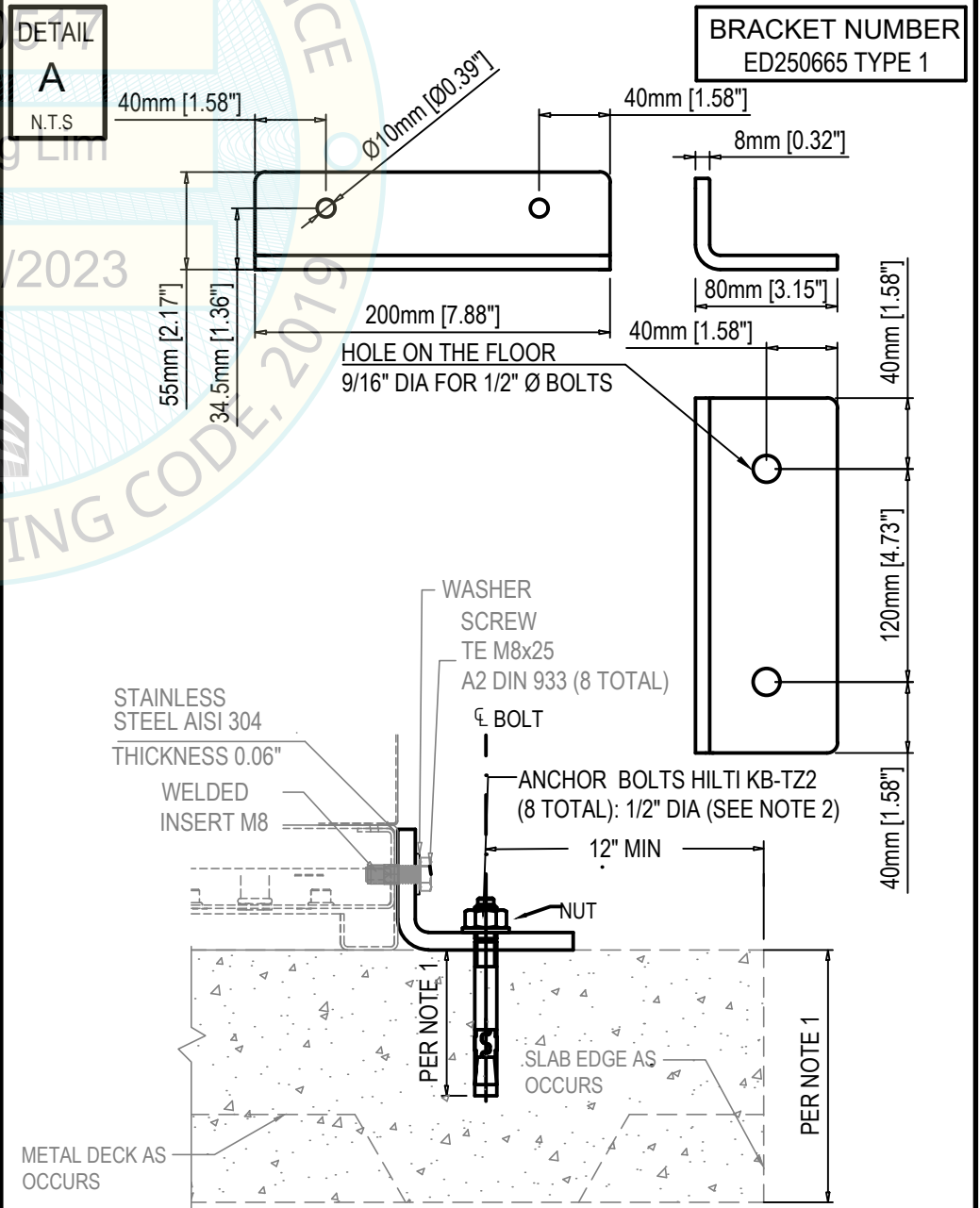
SIDE ANCHORAGE ELEVATION

N.T.S



ANCHORAGE LAYOUT AT BASE

N.T.S



STRUCTURAL DESIGN BY:

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DATE:

APRIL 06

2023

Steelco
ED 100/1 LATERAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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STEELCO DRYING
CABINET MODEL N° ED 150/1
FRONTAL SUPPORT

WEIGHT= 1029 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

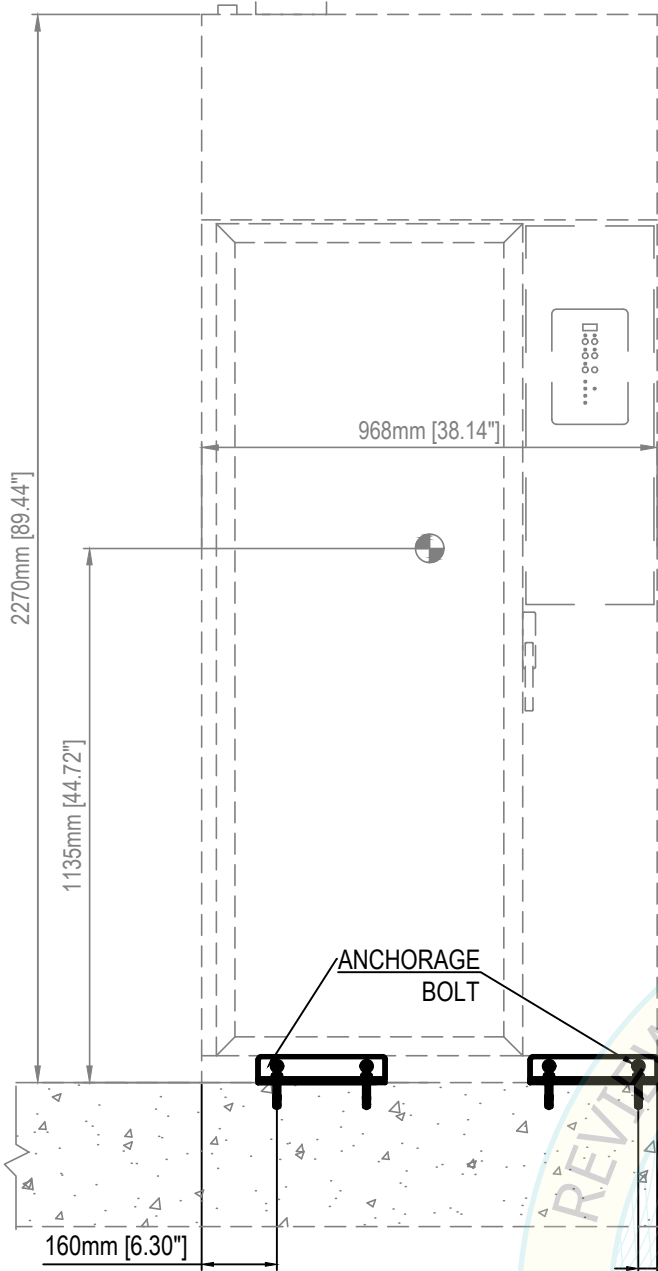
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

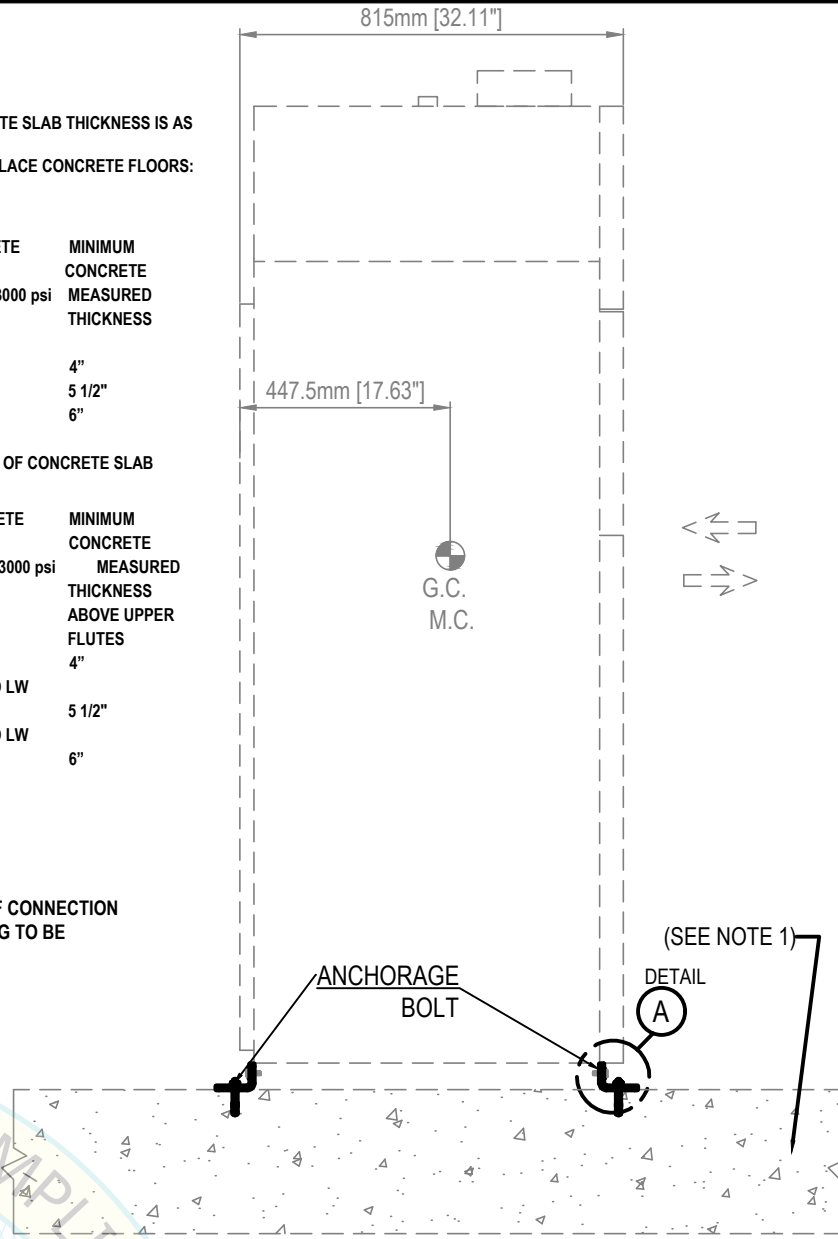
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

NOTE 2

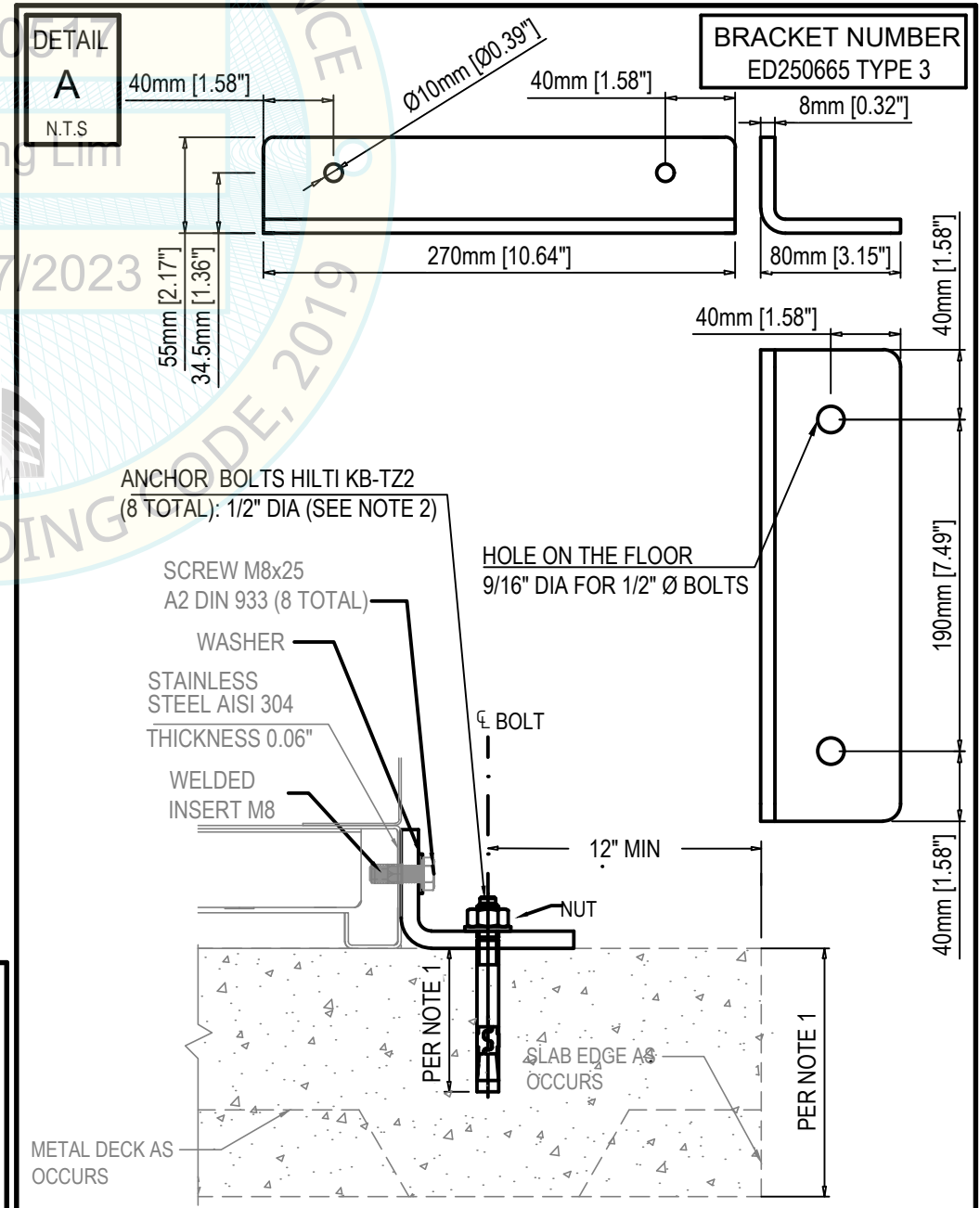
PROVIDE SHIMS (FILLERS) < 1/4" WITHOUT LOSS OF CONNECTION
CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE
FLUSH W/PL. REFER TO AISC 360-16§ J5



FRONT ANCHORAGE ELEVATION
N.T.S



SIDE ANCHORAGE ELEVATION
N.T.S



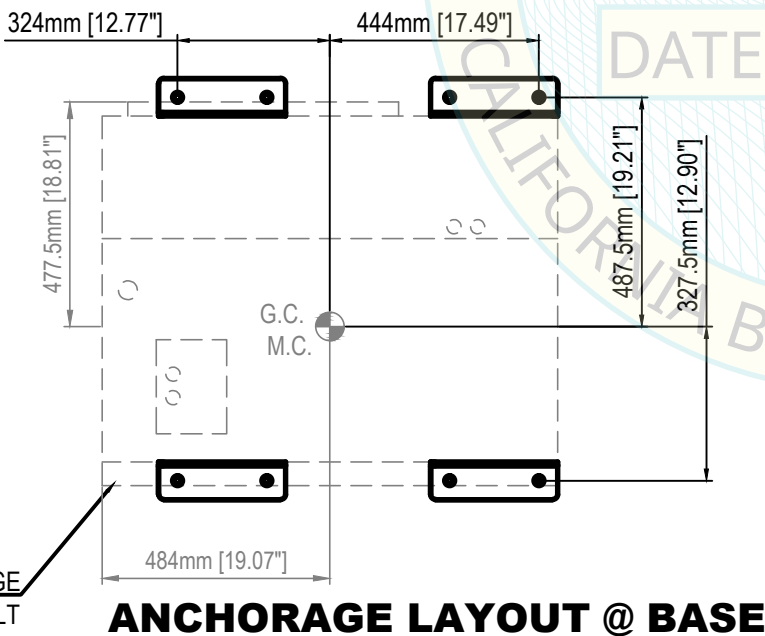
STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997

REGISTERED PROFESSIONAL ENGINEER
M ASOUD FIROUZI
No. 36433
STATE OF CALIFORNIA

PAGE: **28**
OF 45
DATE: APRIL 06 2023



ANCHORAGE LAYOUT @ BASE
N.T.S

Steelco
ED 150/1 FRONTAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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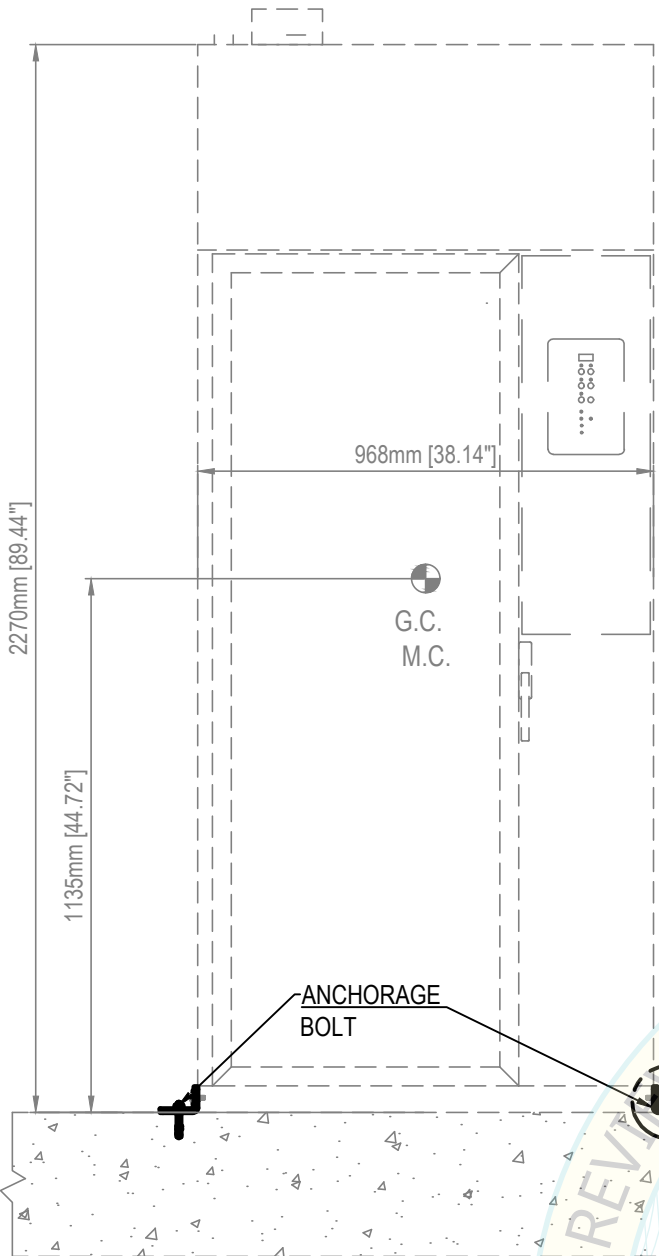
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STEELCO DRYING
CABINET MODEL N° ED 150/1
LATERAL SUPPORT

WEIGHT= 1029 POUNDS
G.C.= Gravity center
M.C.= Mass center



NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

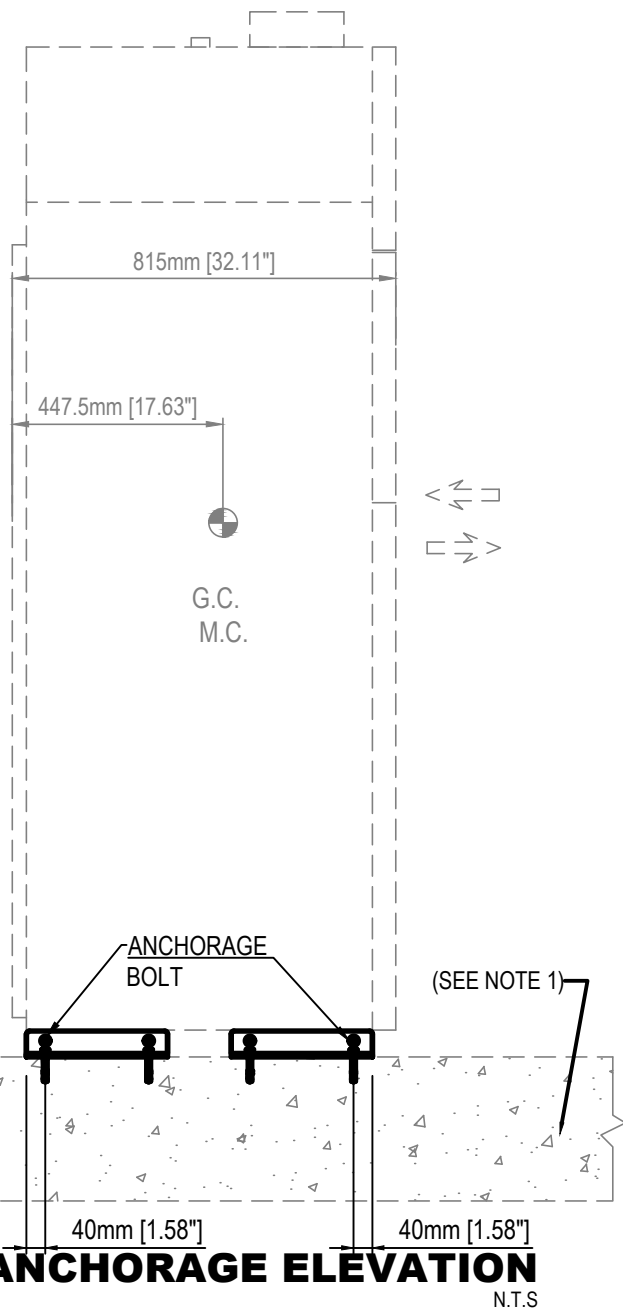
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

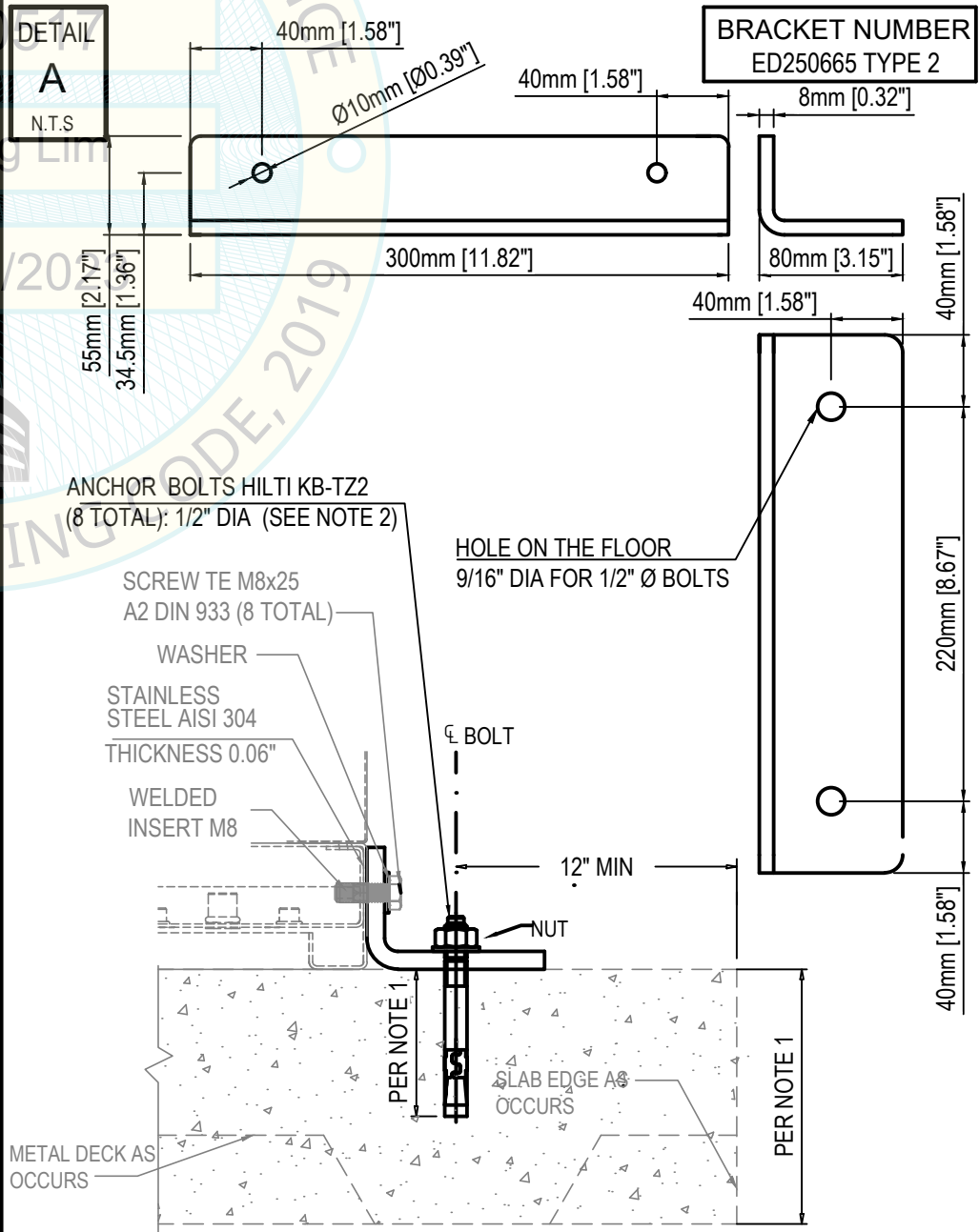
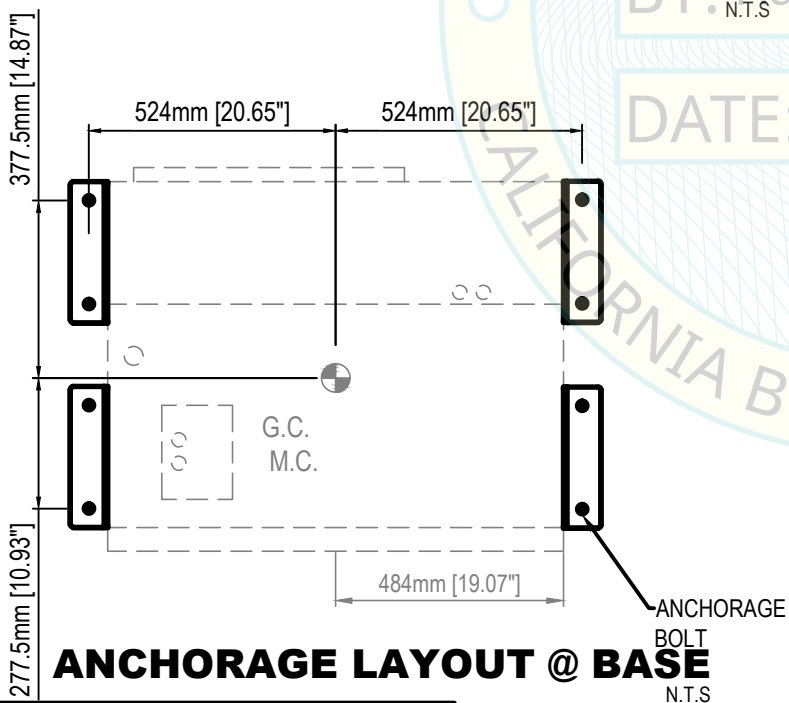
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

PROVIDE SHIMS (FILLERS) $\leq \frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16§ J5



FRONT ANCHORAGE ELEVATION



Steelco
ED 150/1 LATERAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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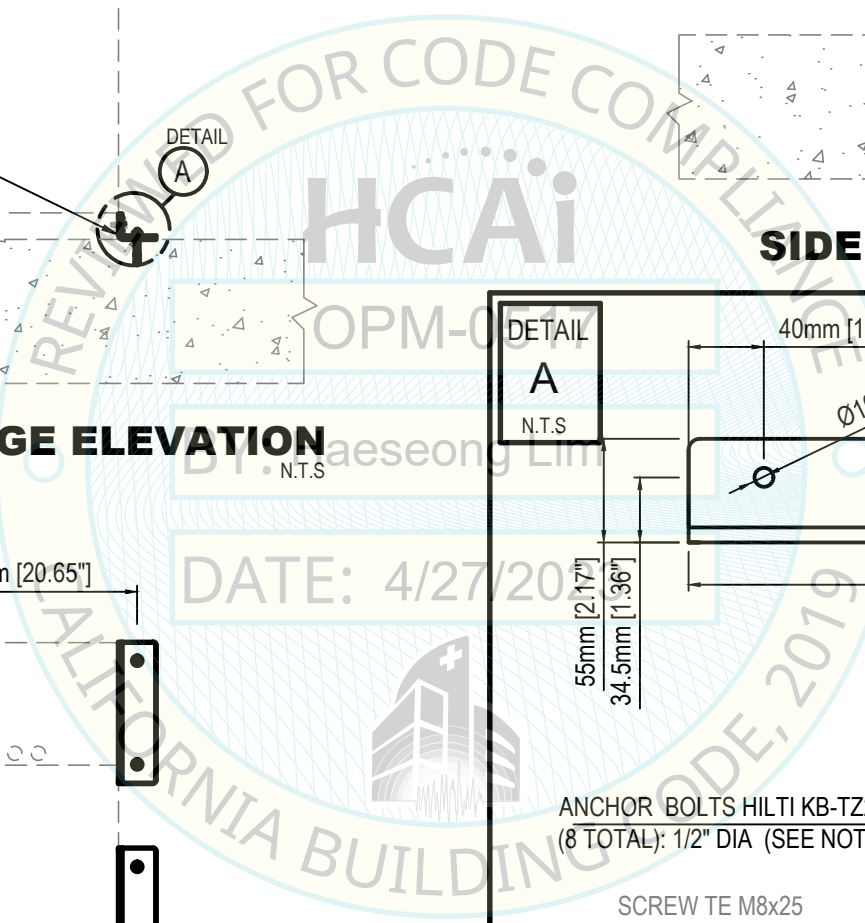
STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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2023



STEELCO DRYING
CABINET MODEL N° ED 150/2
FRONTAL SUPPORT

WEIGHT= 1075 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

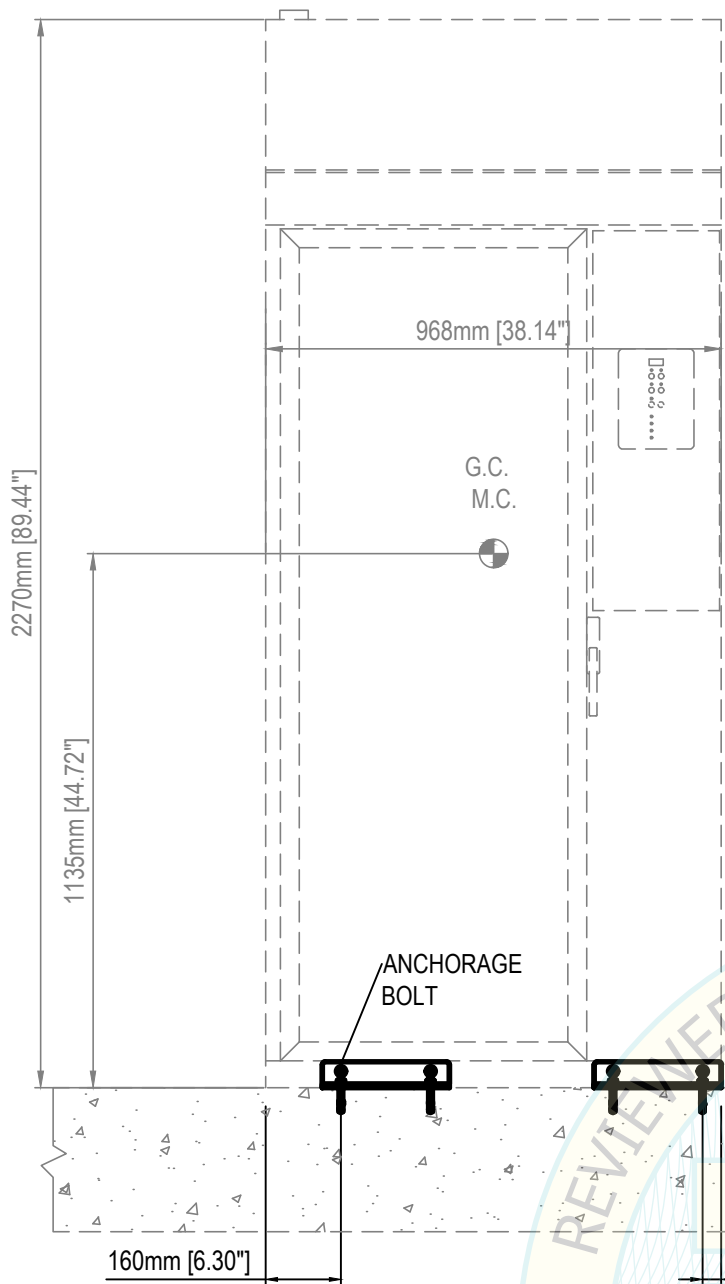
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

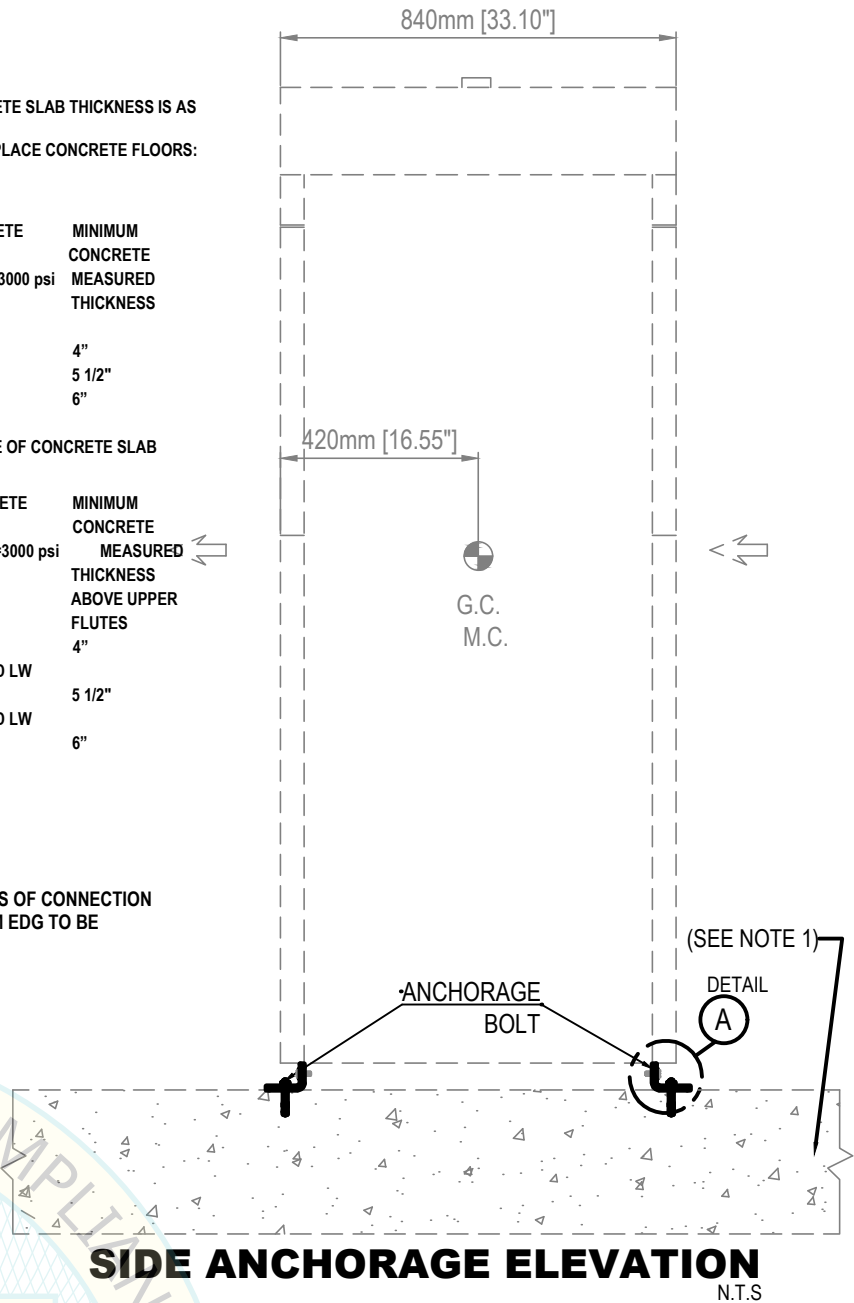
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

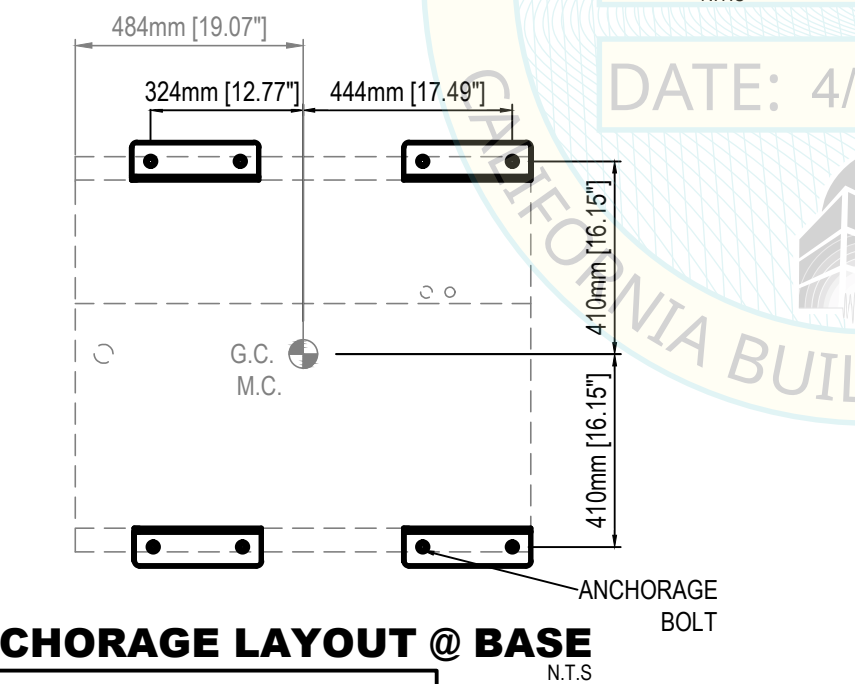
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16 § J5



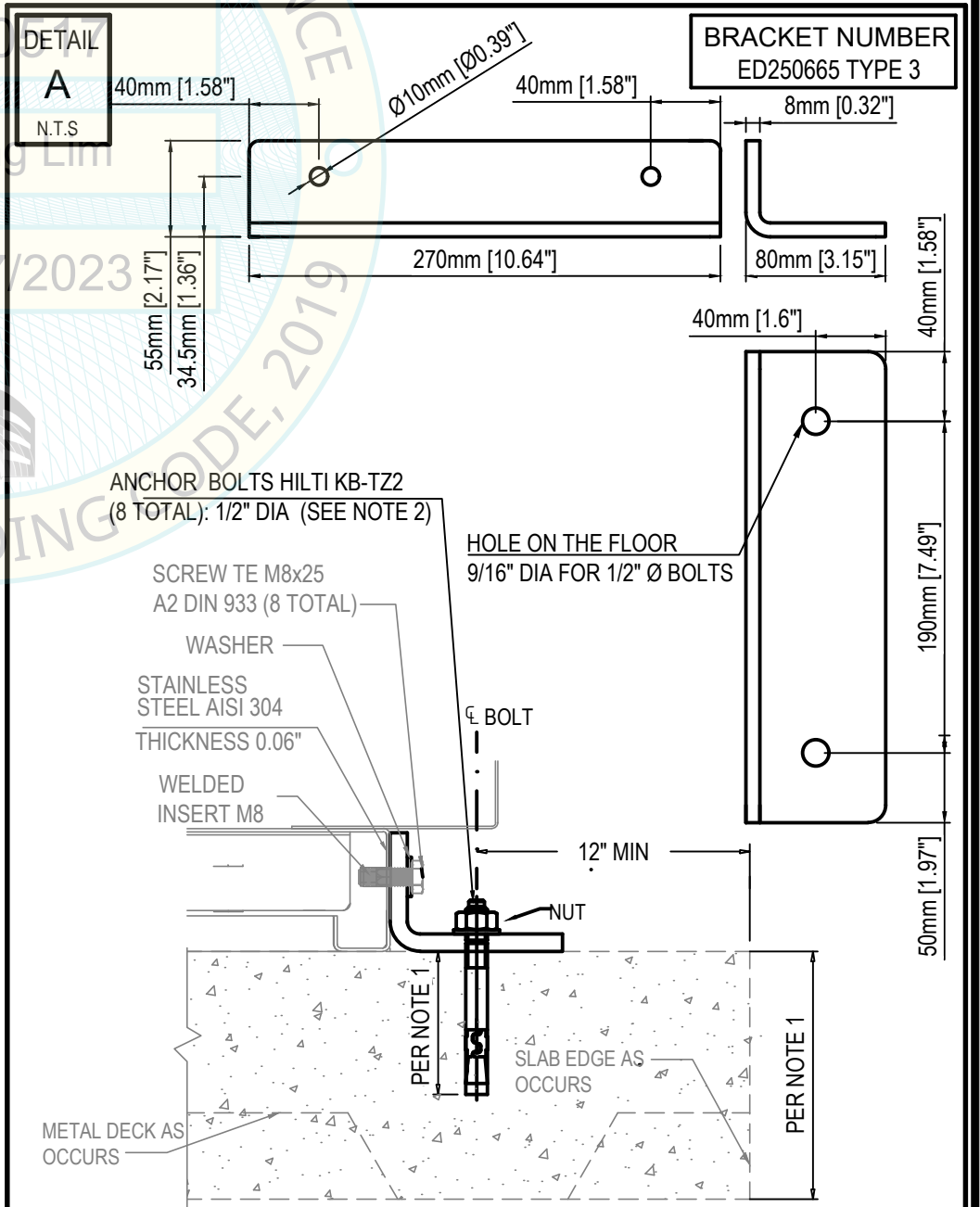
FRONT ANCHORAGE ELEVATION



SIDE ANCHORAGE ELEVATION



ANCHORAGE LAYOUT @ BASE



DETAIL A

BRACKET NUMBER ED250665 TYPE 3

Steelco
ED 150/2 FRONTAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

Steelco
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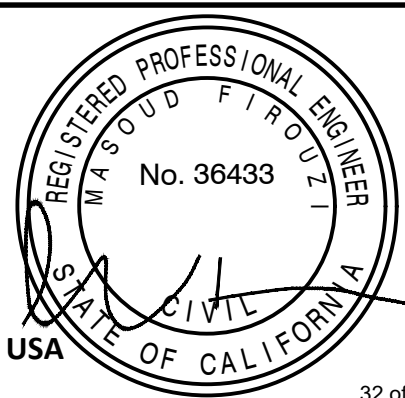
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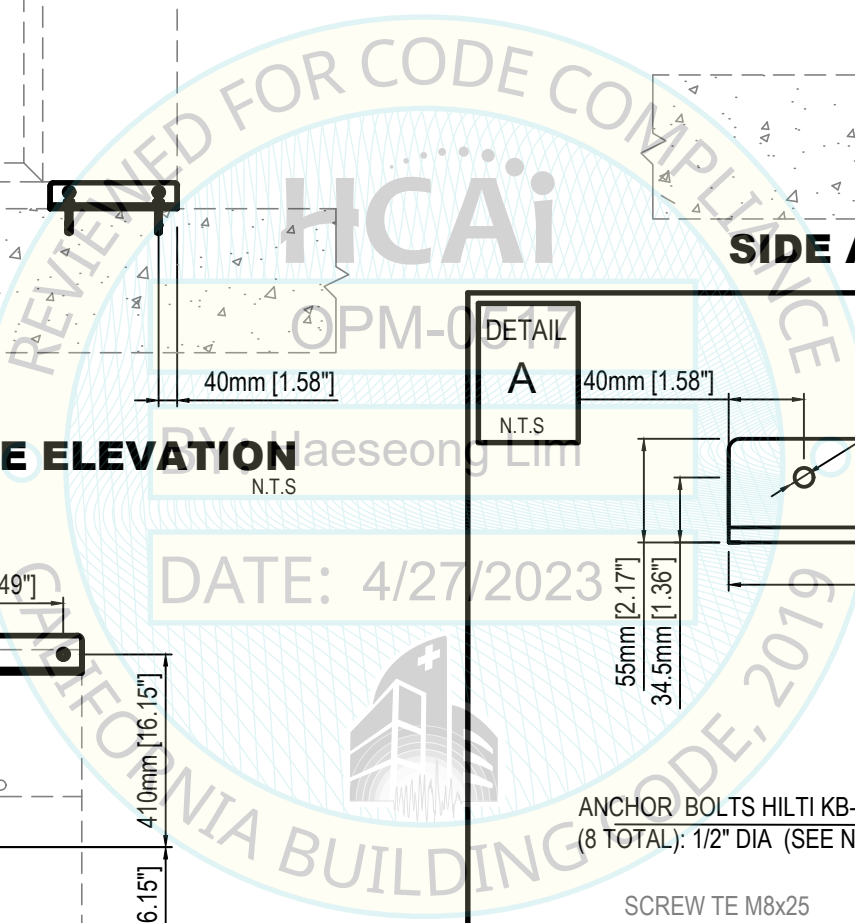
STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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STEELCO DRYING
CABINET MODEL N° ED 150/2
LATERAL SUPPORT

WEIGHT= 1075 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

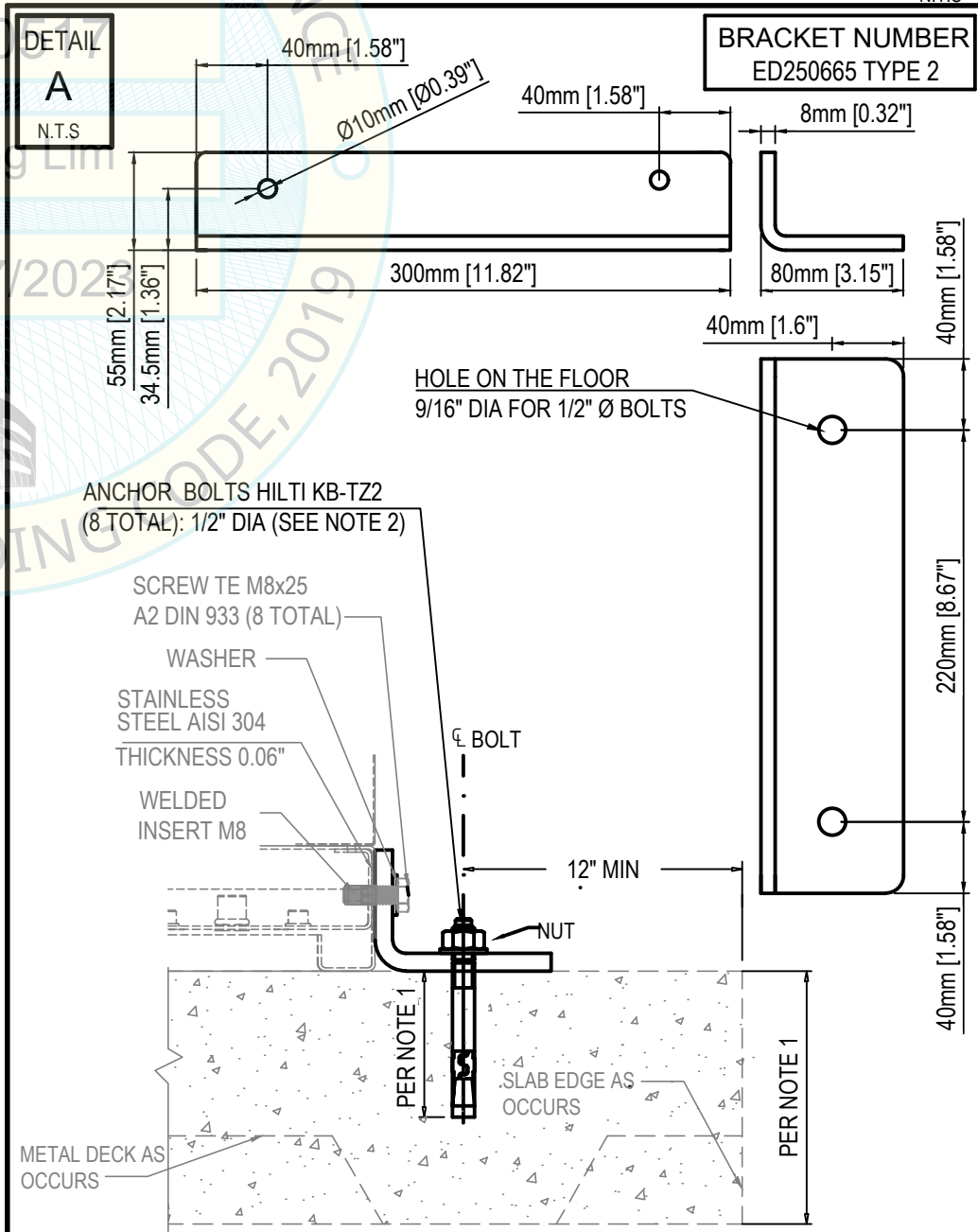
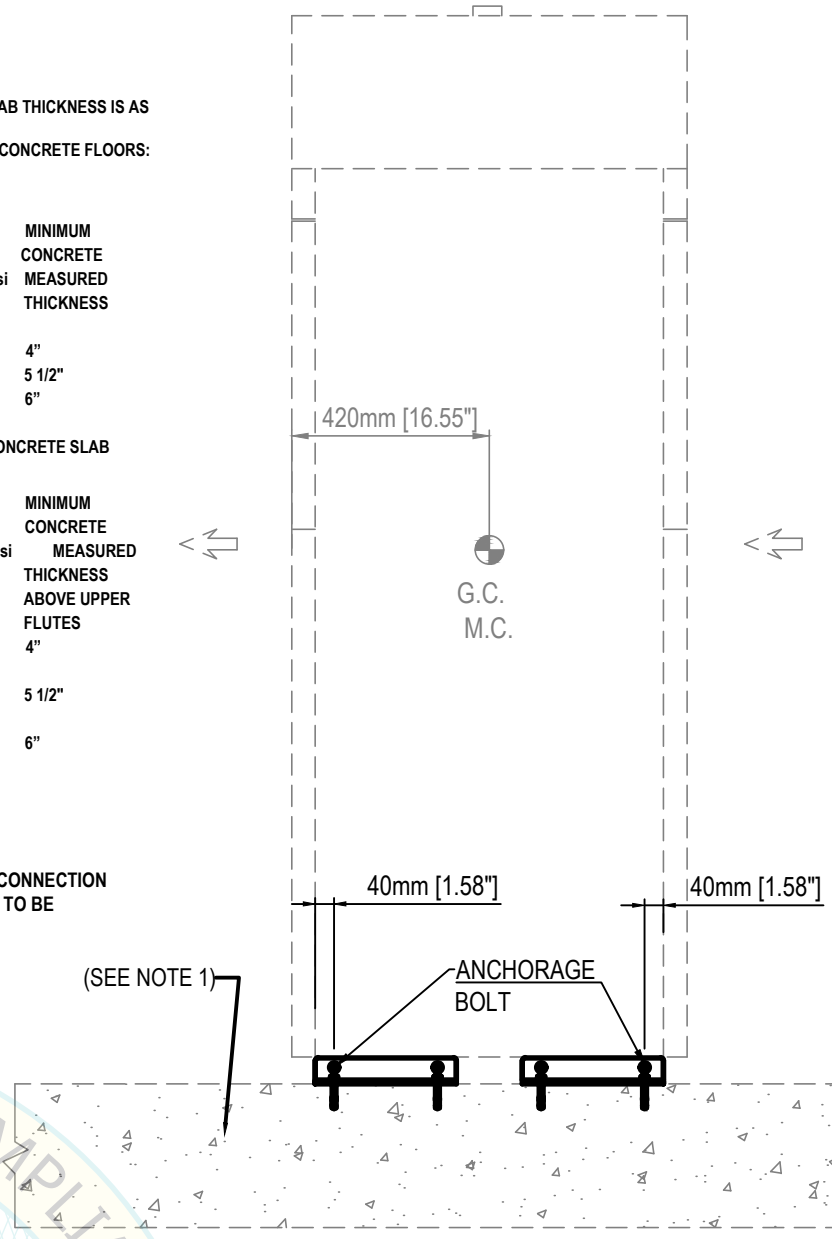
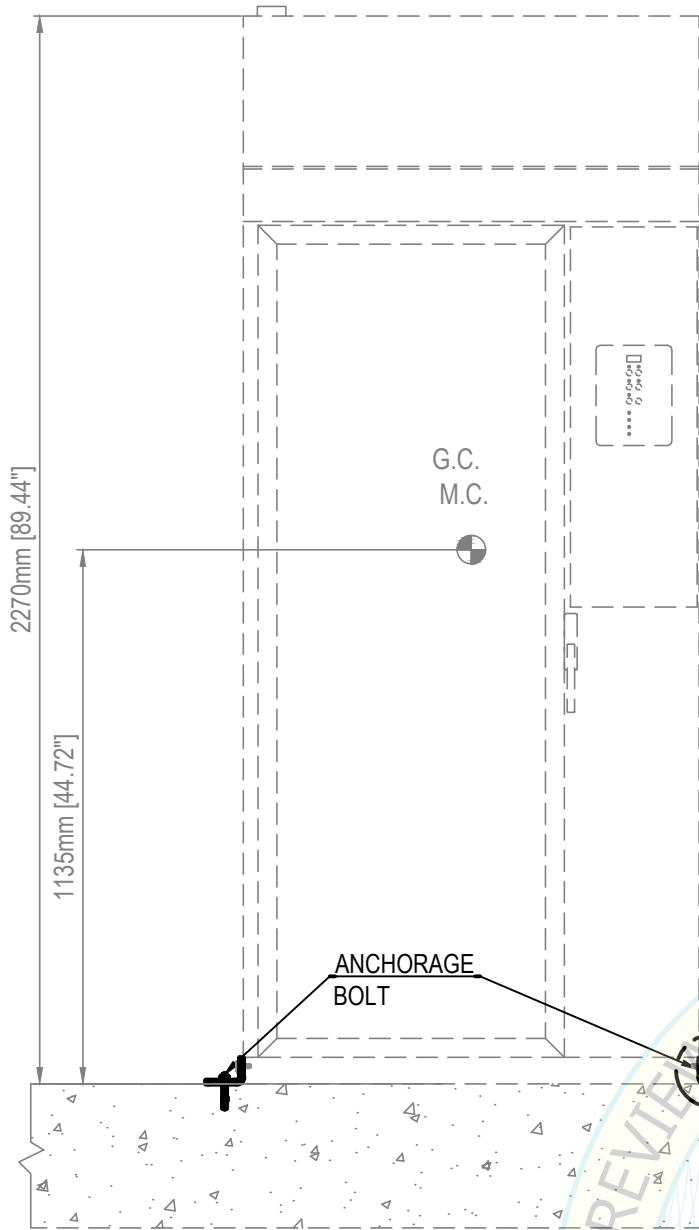
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN F'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

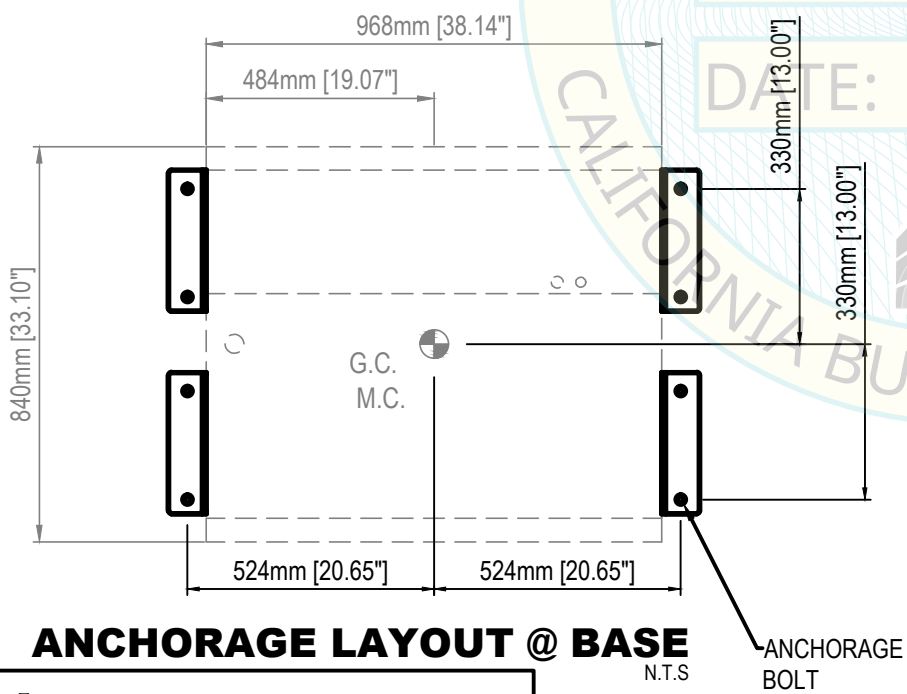
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN F'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

NOTE 2

PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION
CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE
FLUSH W/PL. REFER TO AISC 360-16 § J5



ANCHORAGE LAYOUT @ BASE



Steelco
ED 150/2 LATERAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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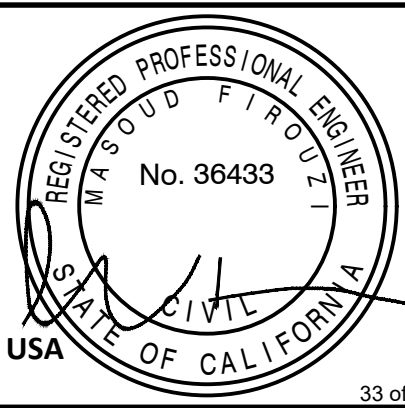
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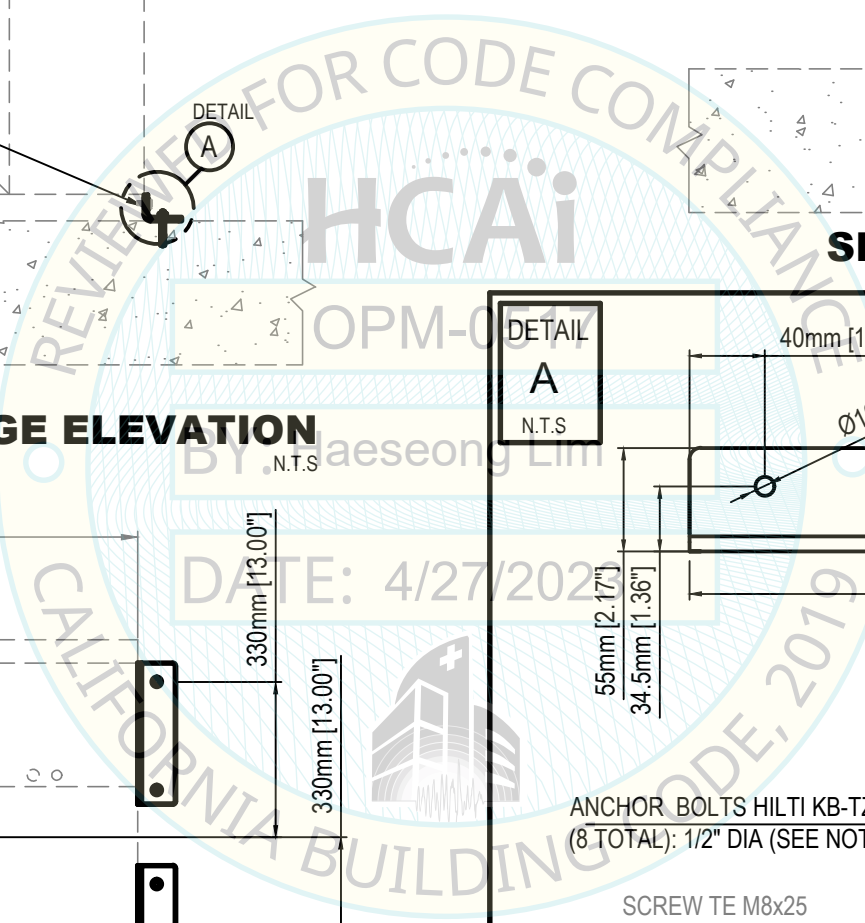
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SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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STEELCO DRYING
CABINET MODEL N° ID 300/1
FRONTAL SUPPORT

WEIGHT= 615 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

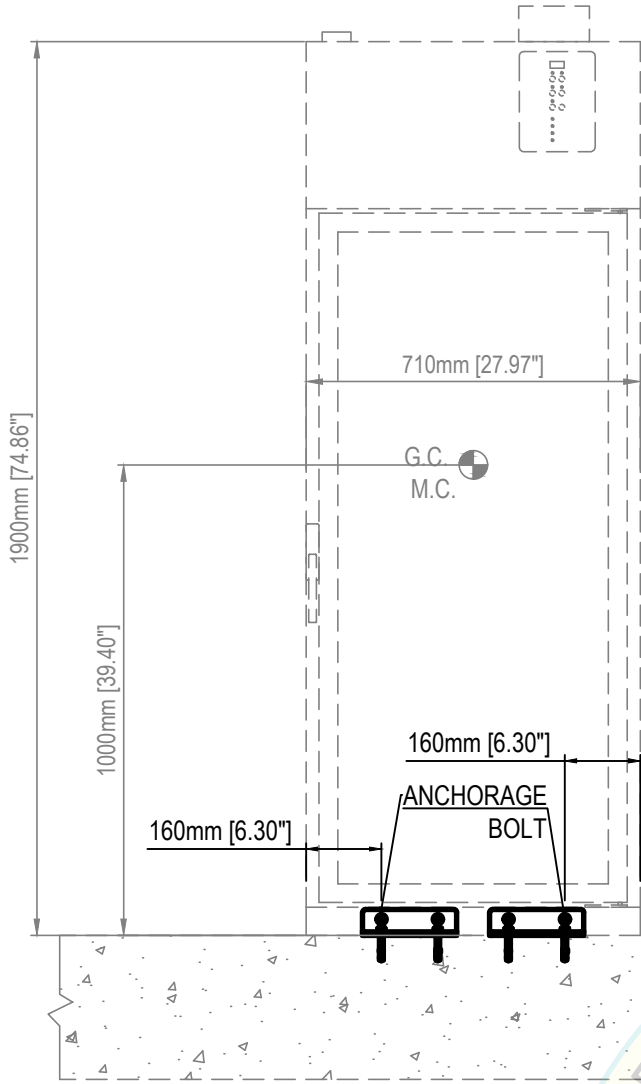
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

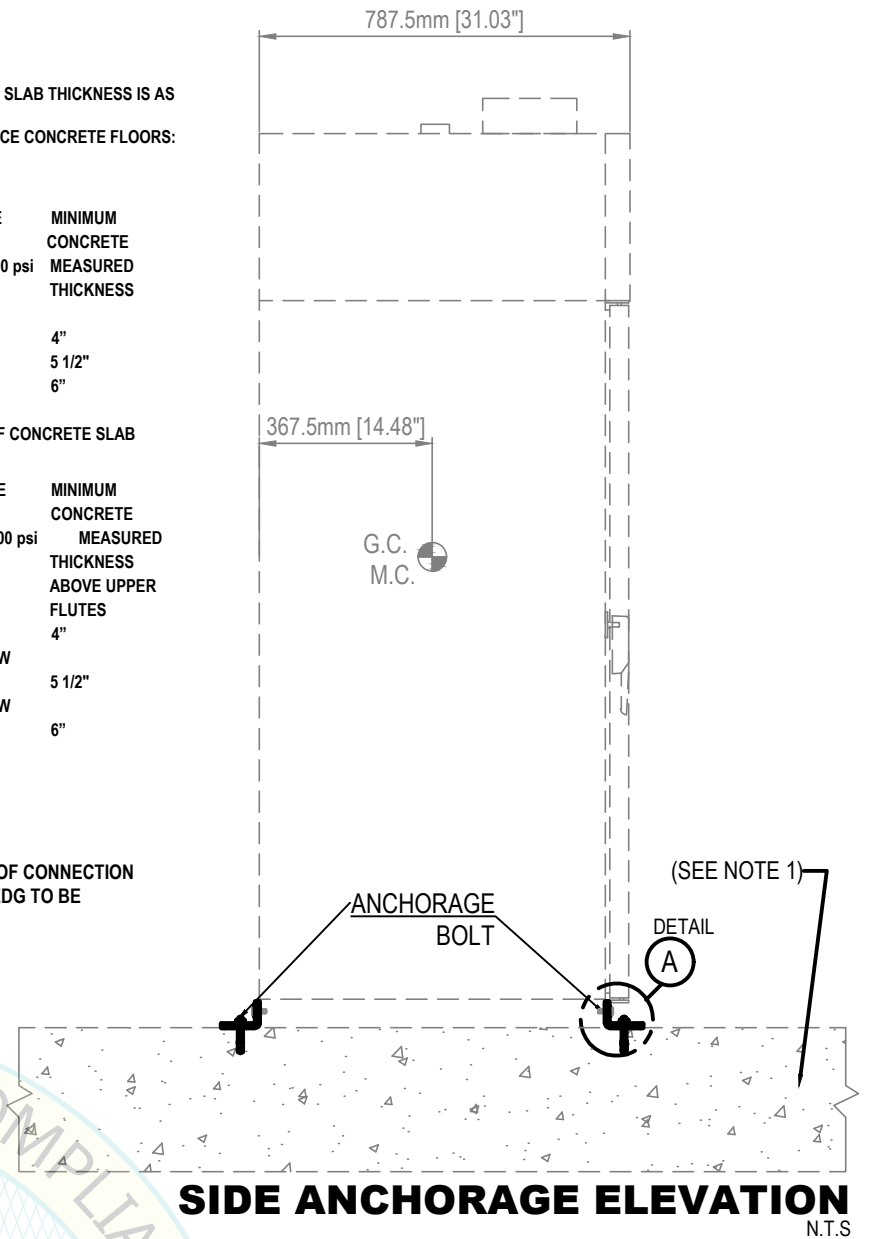
NOTE 2

PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION
CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE
FLUSH w/PL. REFER TO AISC 360-16§ J5



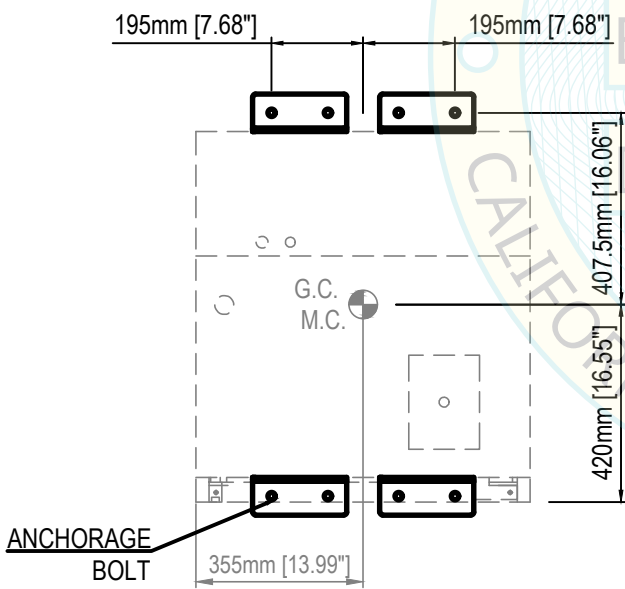
FRONT ANCHORAGE ELEVATION

N.T.S



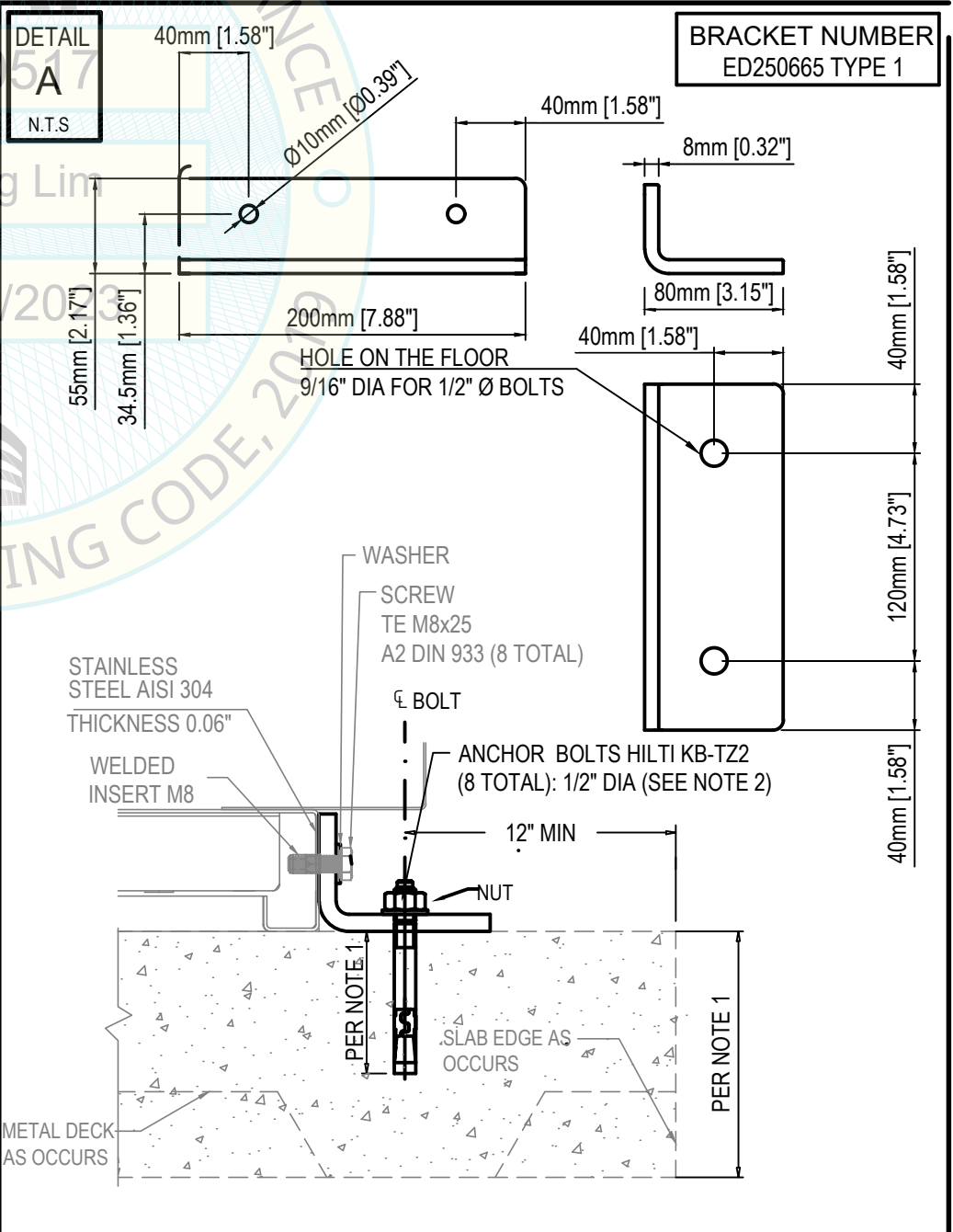
SIDE ANCHORAGE ELEVATION

N.T.S



ANCHORAGE LAYOUT @ BASE

N.T.S



STRUCTURAL DESIGN BY:

**FIROUZI
CONSULTING
ENGINEERS, INC.**

5965 VILLAGE WAY, STE 105
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619.997.9997



PAGE:

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DATE:

APRIL 06

2023

Steelco
N° ID 300/1 FRONTAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
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OPM 0517-19
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Reviewed for Code Compliance by Haeseong Lim

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STEELCO DRYING CABINET MODEL N° ID 300/1 LATERAL SUPPORT
 WEIGHT= 615 POUNDS
 G.C.= Gravity center
 M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

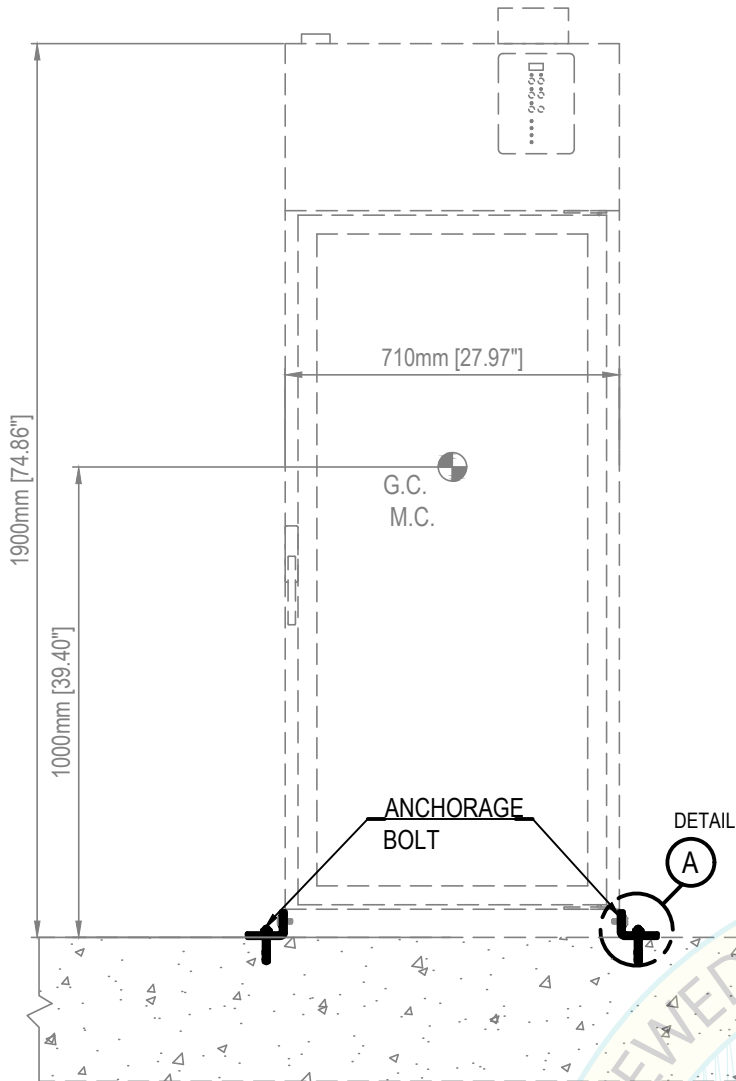
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

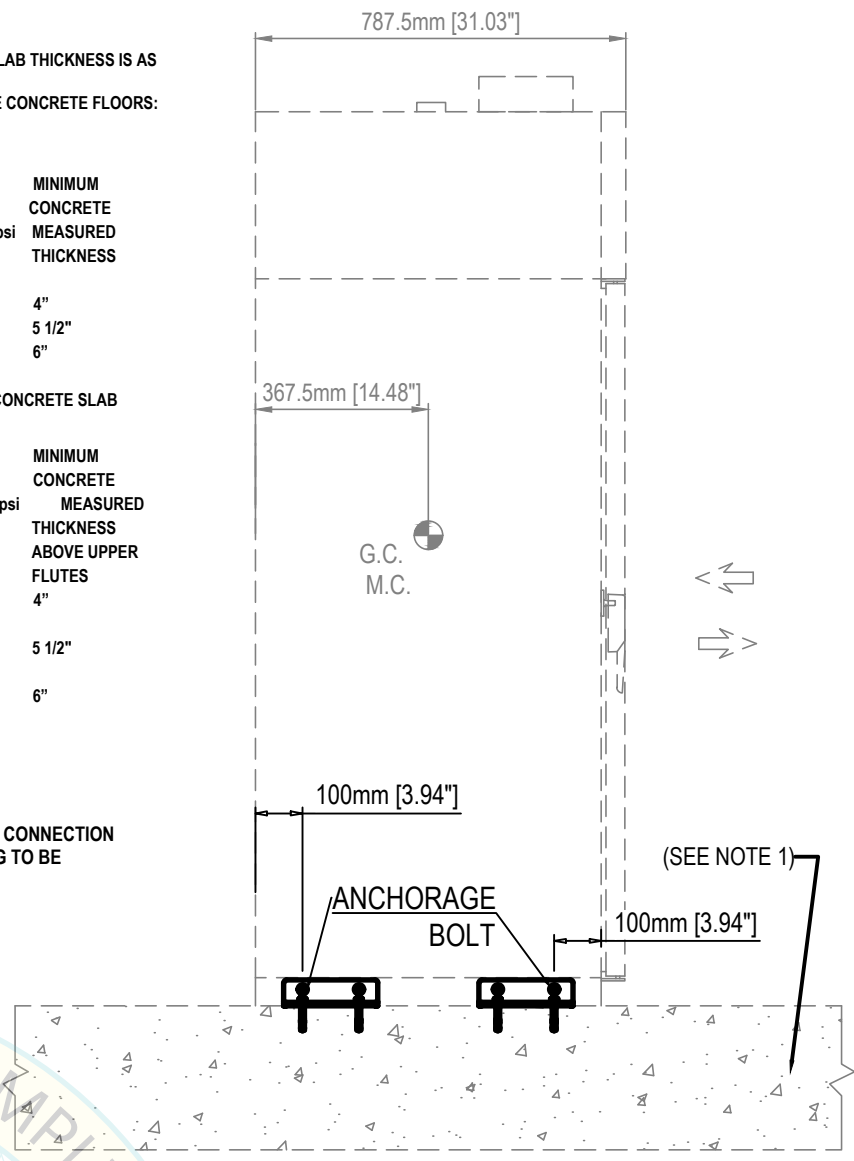
NOTE 2

PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16§J5



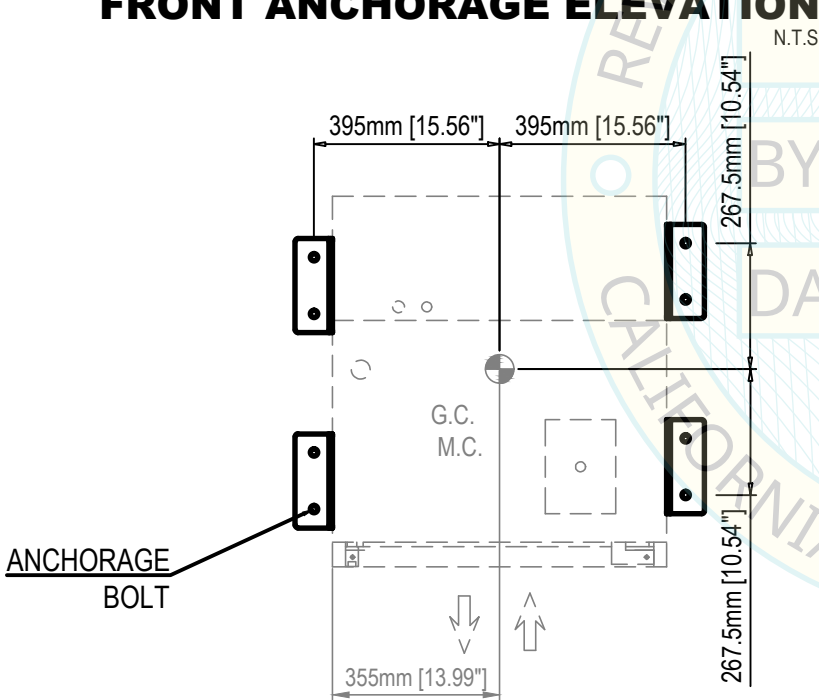
FRONT ANCHORAGE ELEVATION

N.T.S.



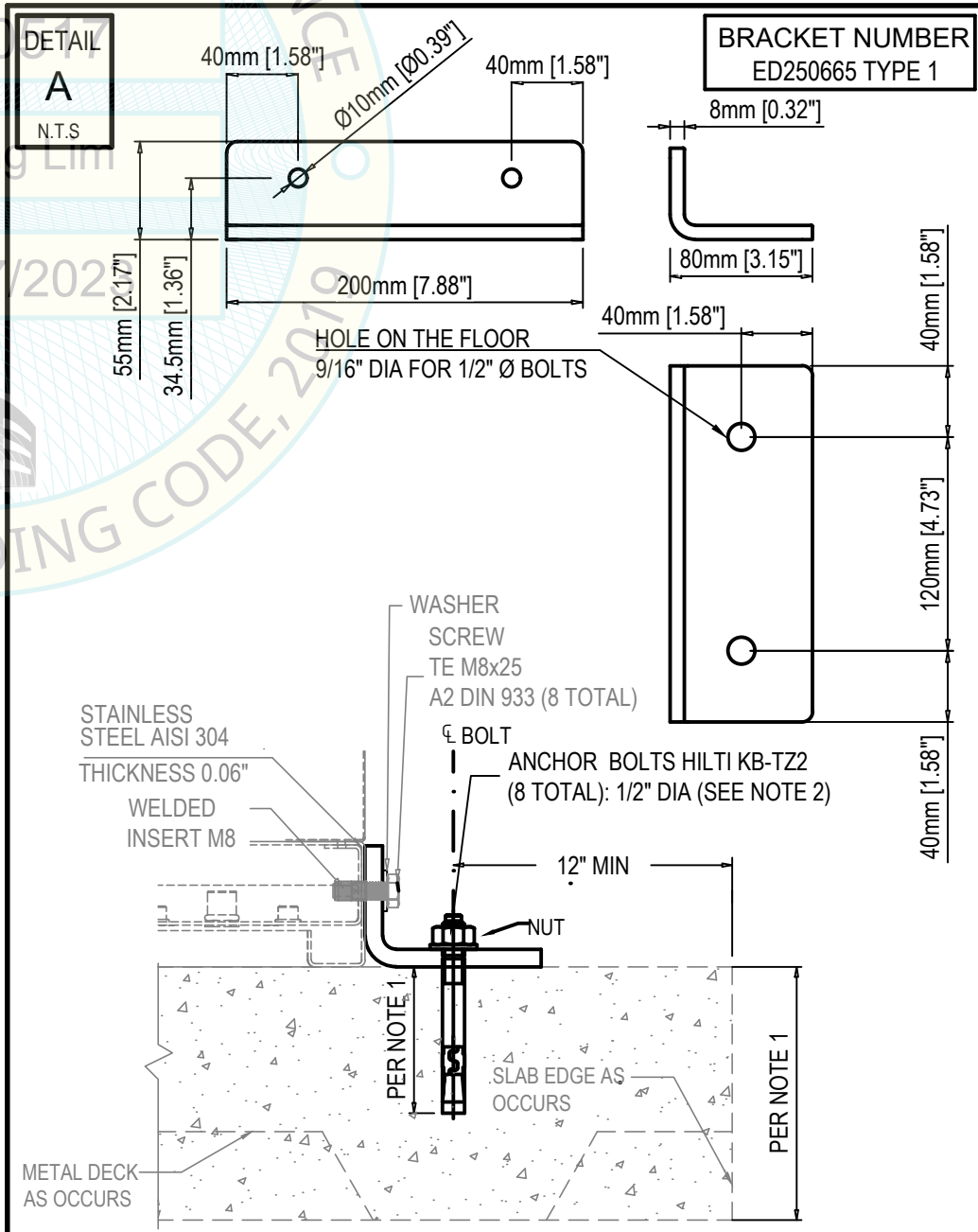
SIDE ANCHORAGE ELEVATION

N.T.S.



ANCHORAGE LAYOUT @ BASE

N.T.S.



DETAIL A

N.T.S.

Steelco
ID 300/1 LATERAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:
 DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

Steelco
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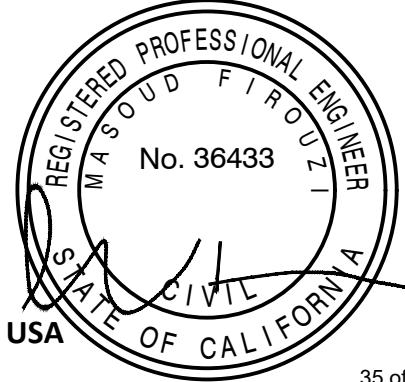
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 VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
 PH.+39 04237561
OPM 0517-19
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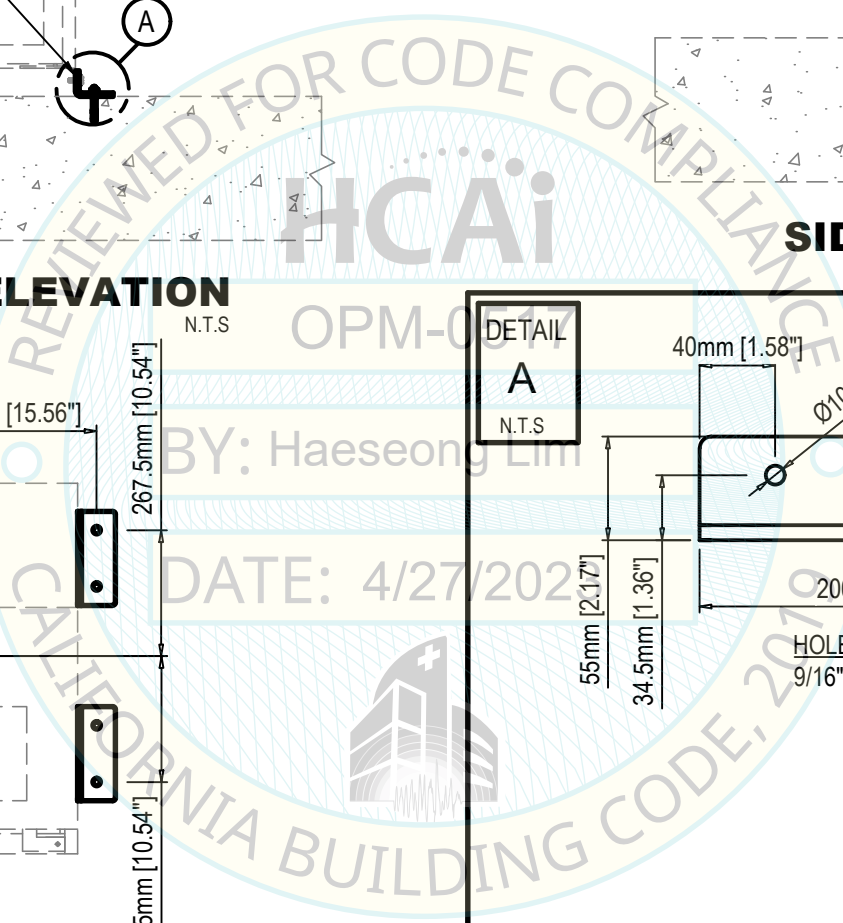
STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
 SAN DIEGO, CALIFORNIA, 92130. USA
 619.997.9997



PAGE:
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 DATE:
 APRIL 06
 2023



STEELCO DRYING
CABINET MODEL N° ID 300/2
FRONTAL SUPPORT

WEIGHT= 669 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

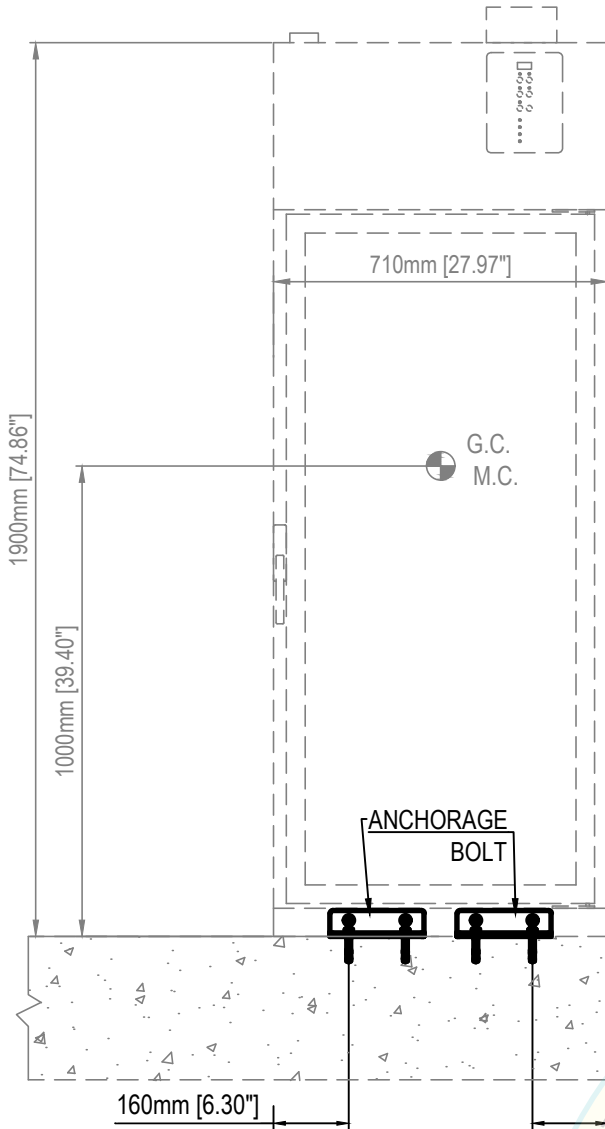
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

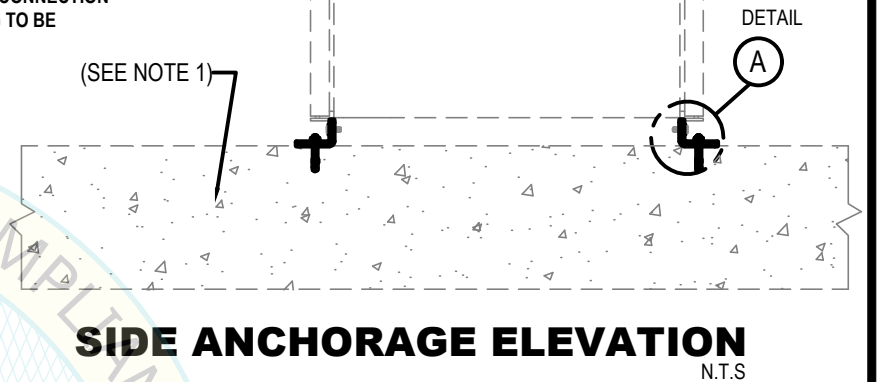
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

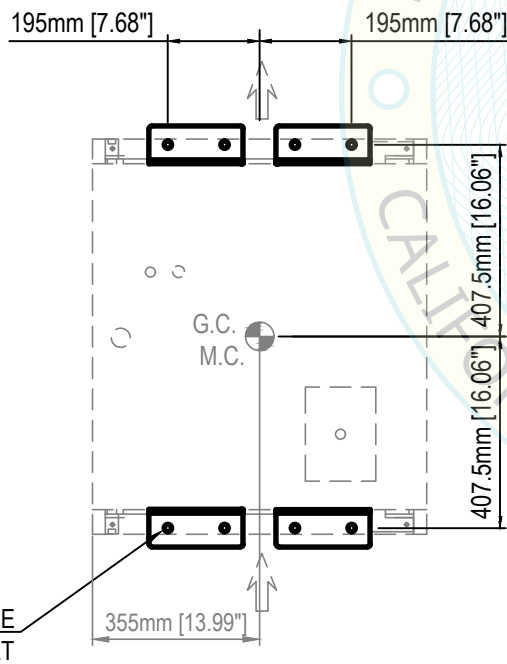
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16§ J5



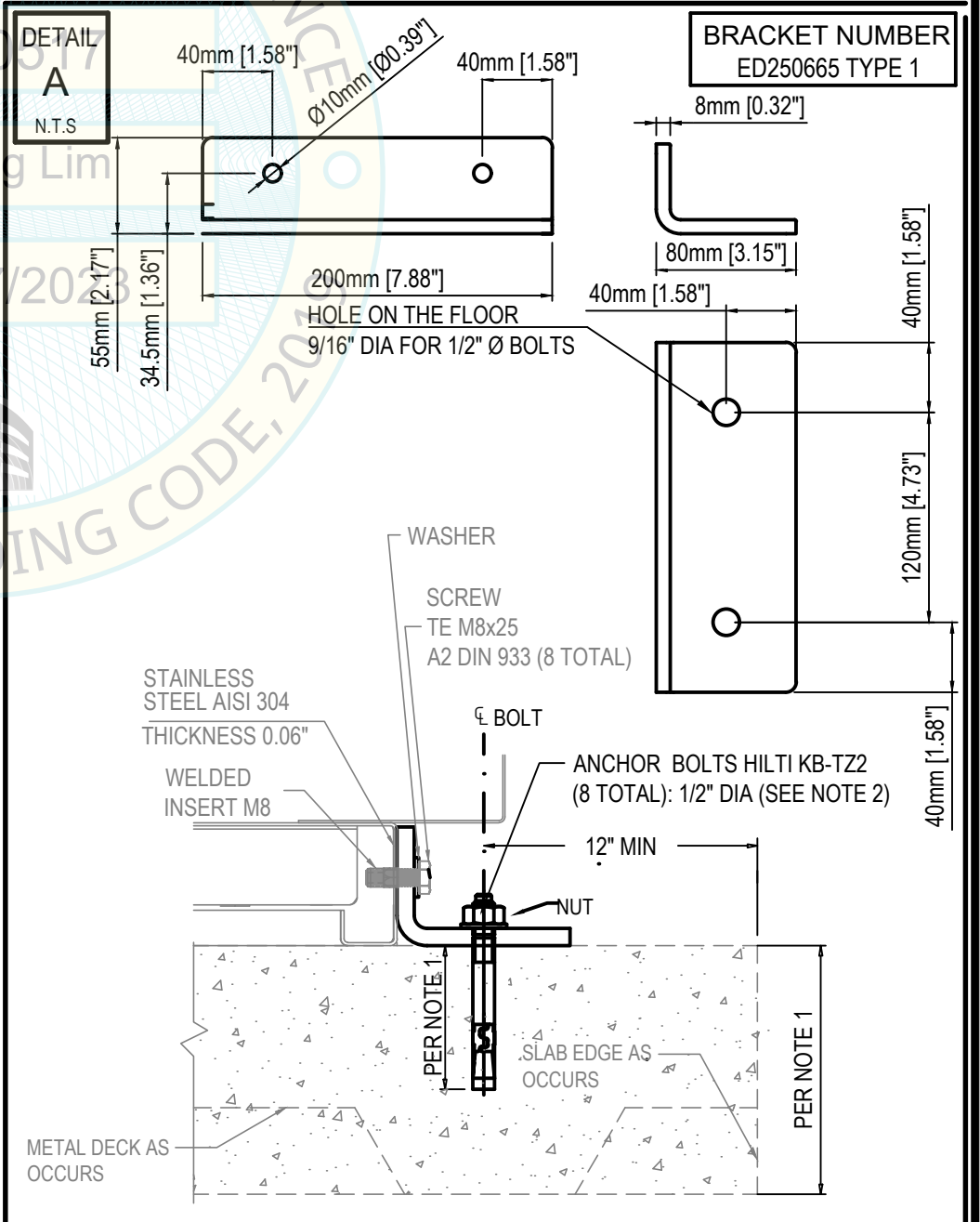
FRONT ANCHORAGE ELEVATION
N.T.S.



SIDE ANCHORAGE ELEVATION
N.T.S.



ANCHORAGE LAYOUT @ BASE
N.T.S.



BRACKET NUMBER
ED250665 TYPE 1

Steelco
ID 300/2 FRONTAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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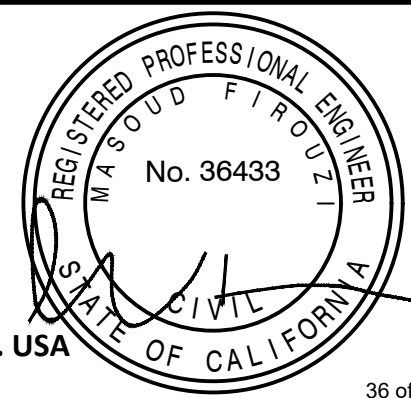
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FIROUZI
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619.997.9997



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2023

STEELCO DRYING
CABINET MODEL N° ID 300/2
LATERAL SUPPORT

WEIGHT= 669 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

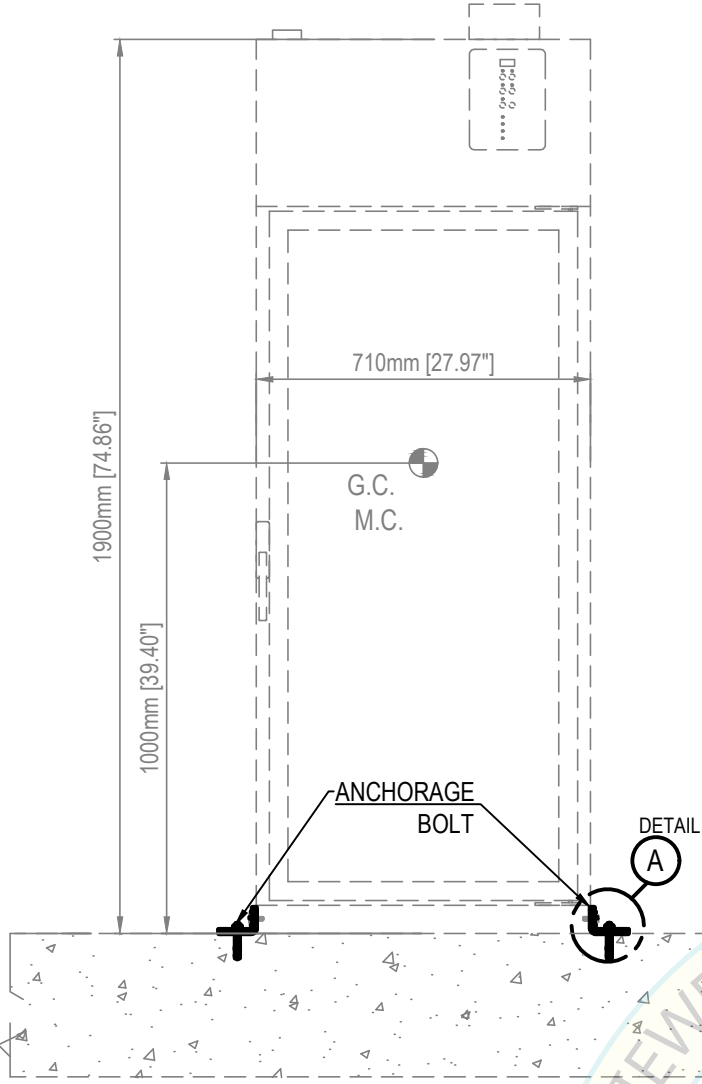
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

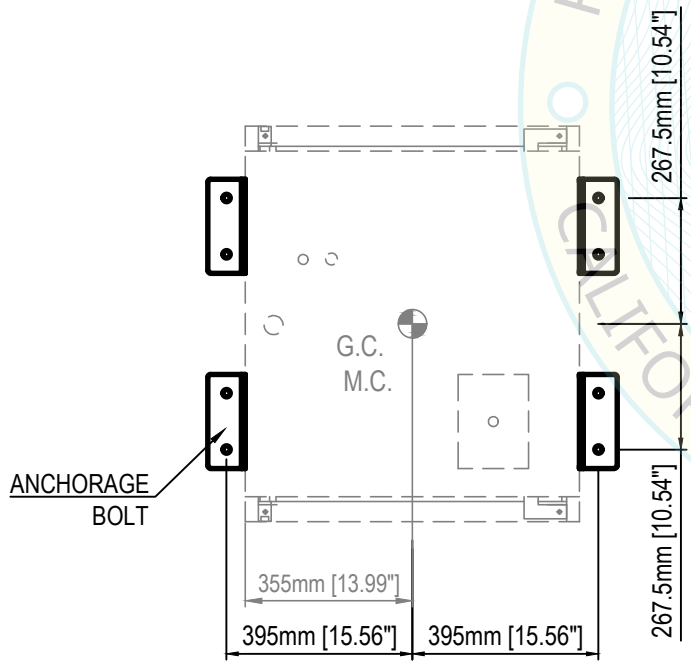
NOTE 2

PROVIDE SHIMS (FILLERS) $\leq \frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH W/PL. REFER TO AISC 360-16§ J5



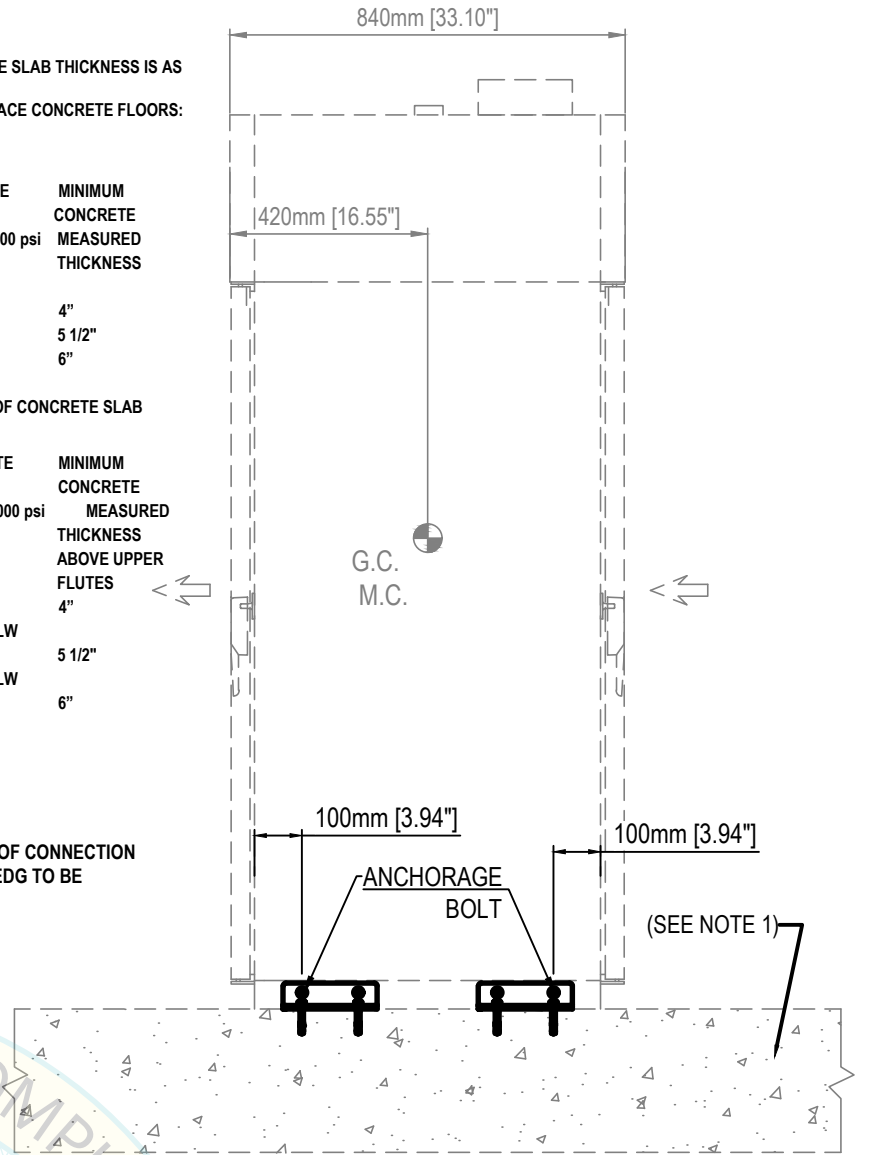
FRONT ANCHORAGE ELEVATION

N.T.S.



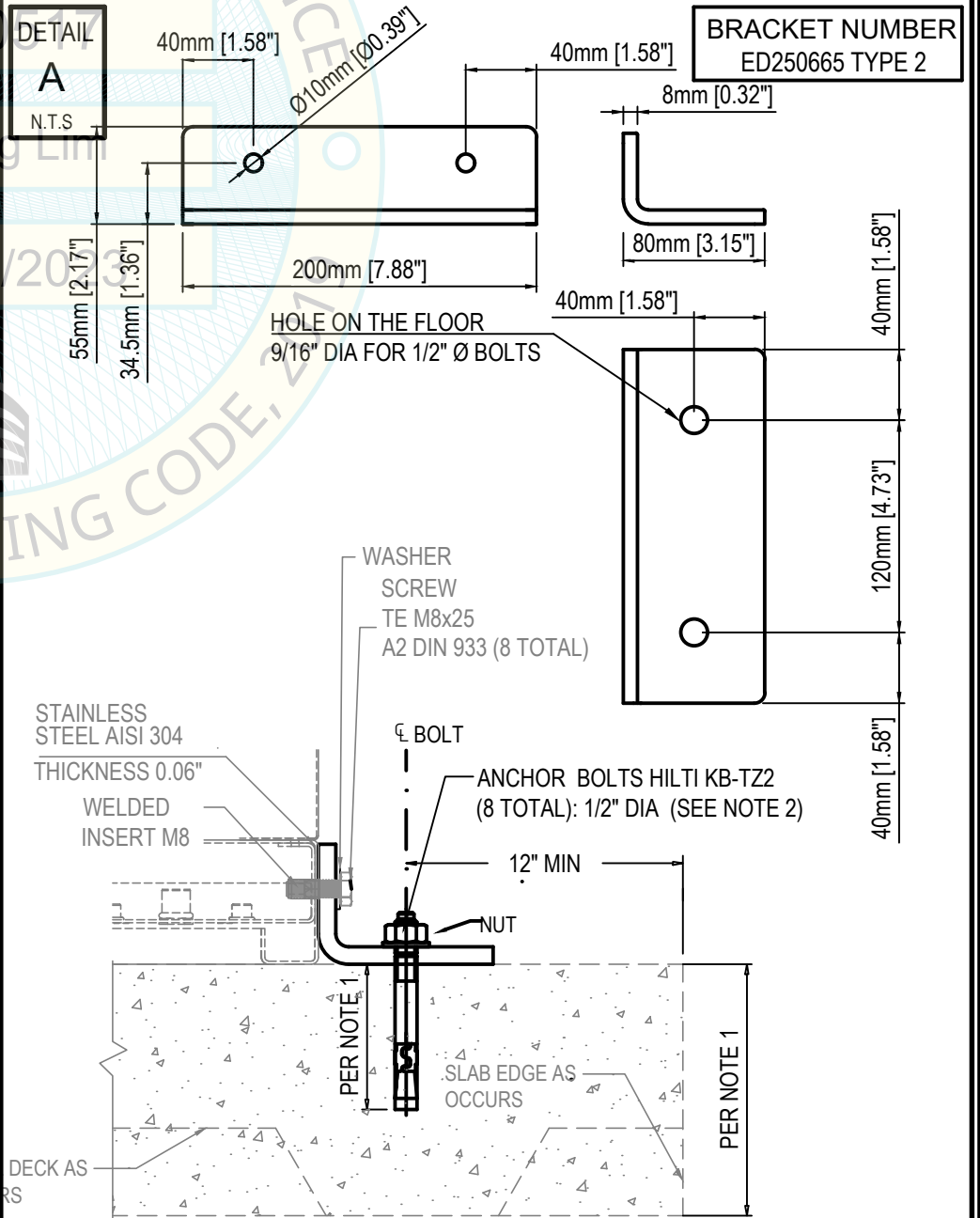
ANCHORAGE LAYOUT @ BASE

N.T.S.



SIDE ANCHORAGE ELEVATION

N.T.S.



Steelco
ID 300/2 LATERAL SUPPORT

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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FIROUZI
CONSULTING
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619.997.9997



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STEELCO WASHING AND
DISINFECTION CABINS
MODEL N° LC 20/1 CHAMBER

WEIGHT= 2484 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

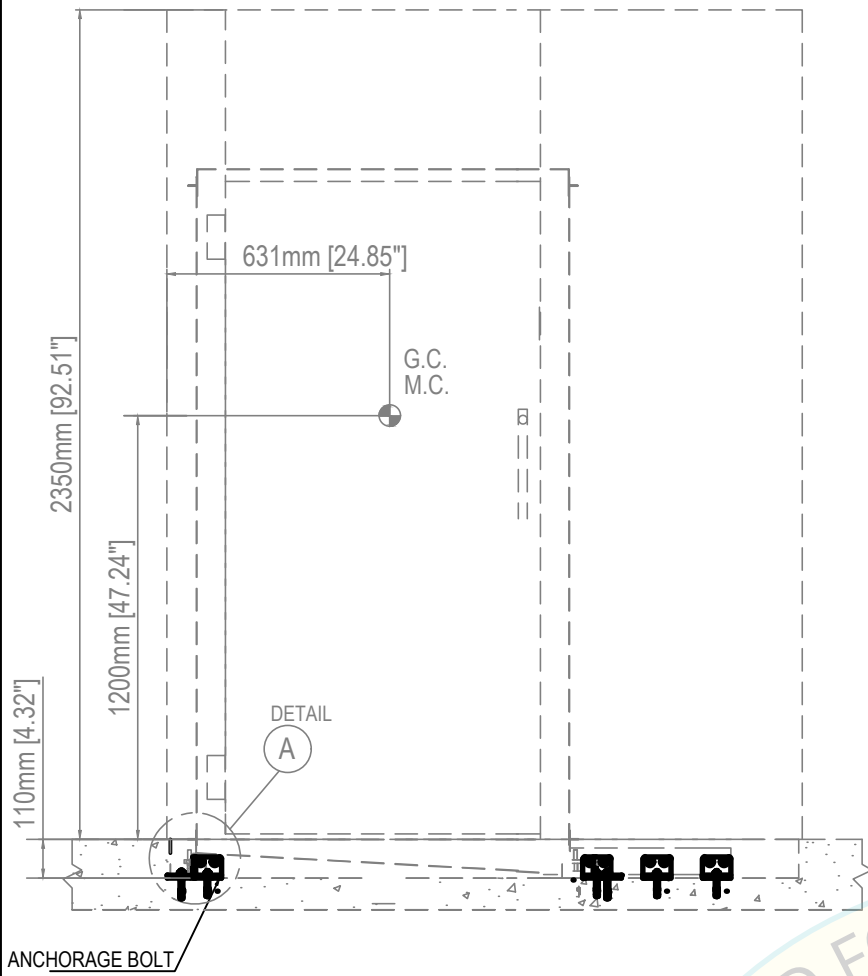
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

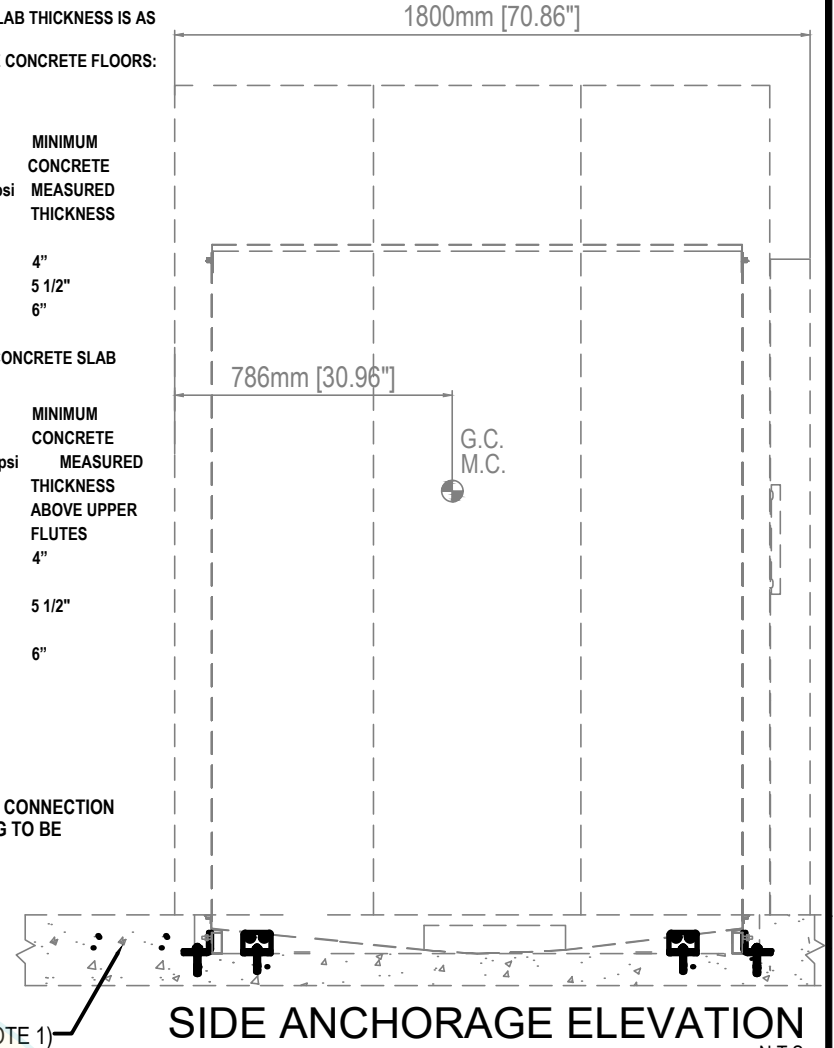
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

NOTE 2

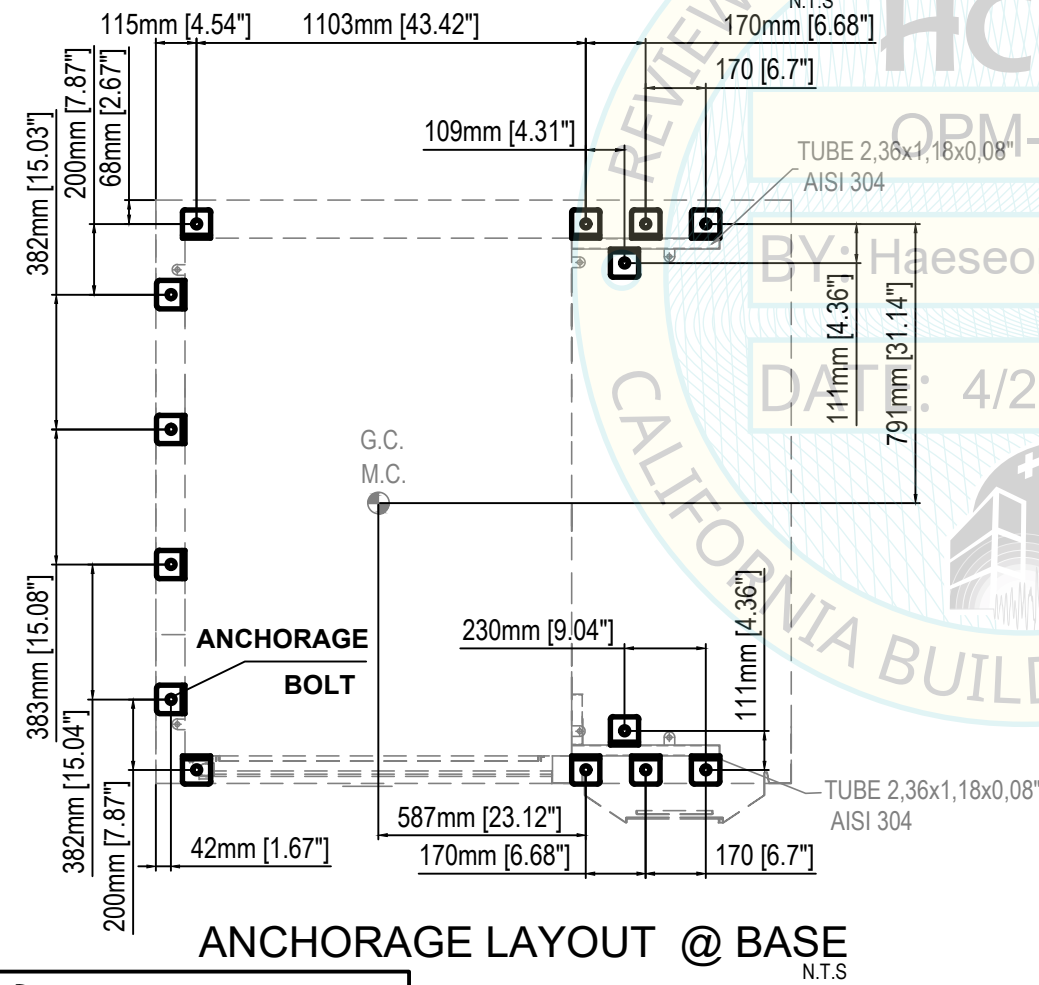
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WITHOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16 § J5



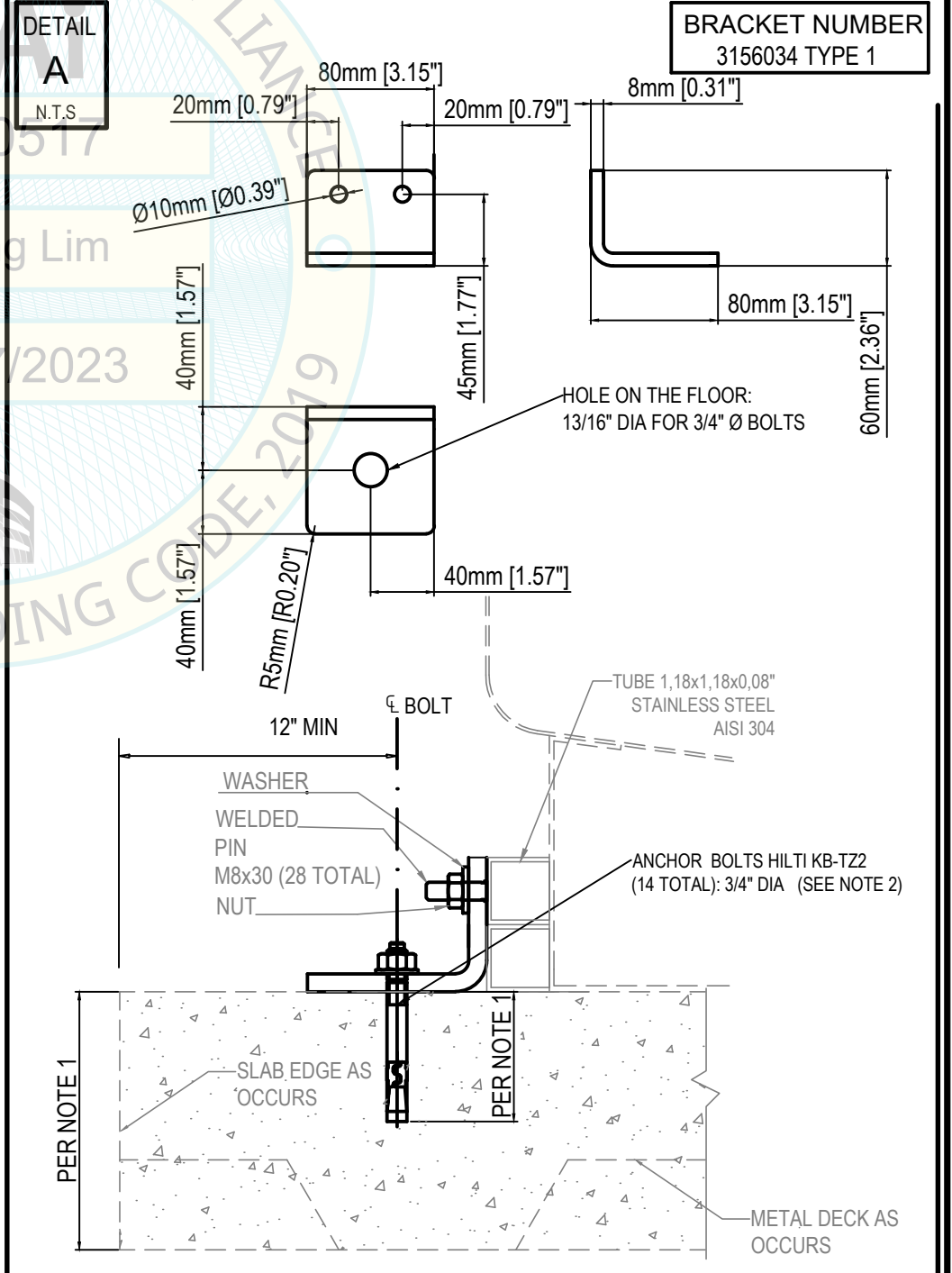
FRONT ANCHORAGE ELEVATION



SIDE ANCHORAGE ELEVATION



ANCHORAGE LAYOUT @ BASE



DETAIL A

Steelco
LC 20/1 CHAMBER

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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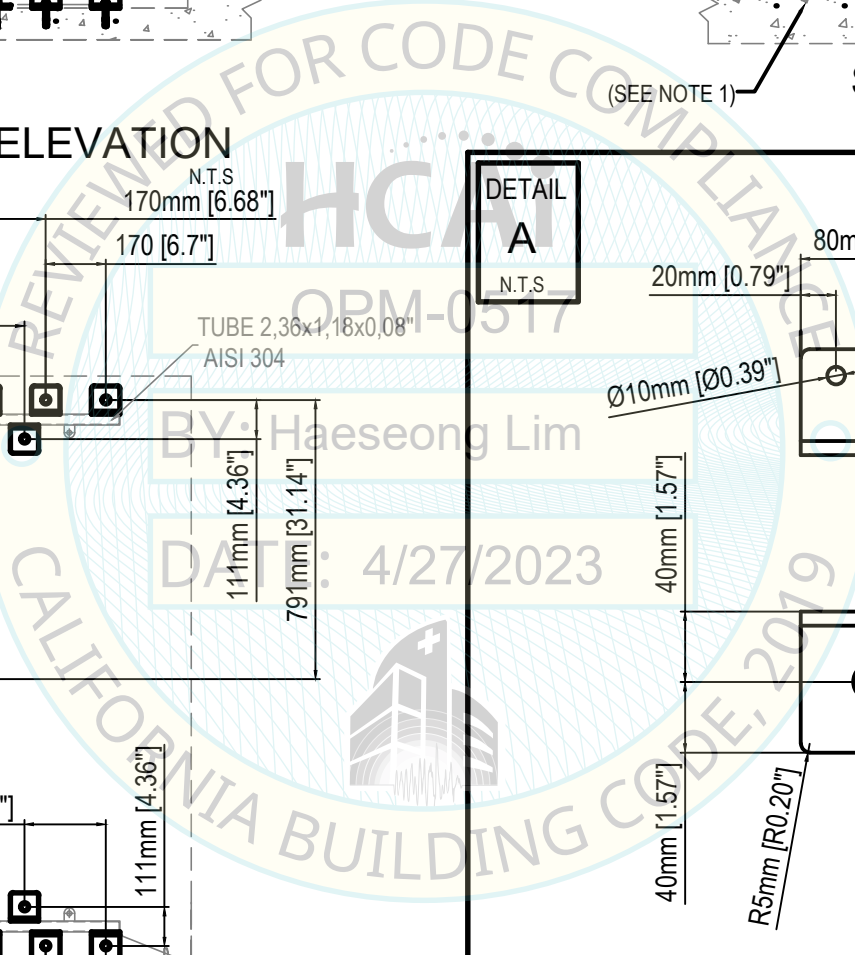
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FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997

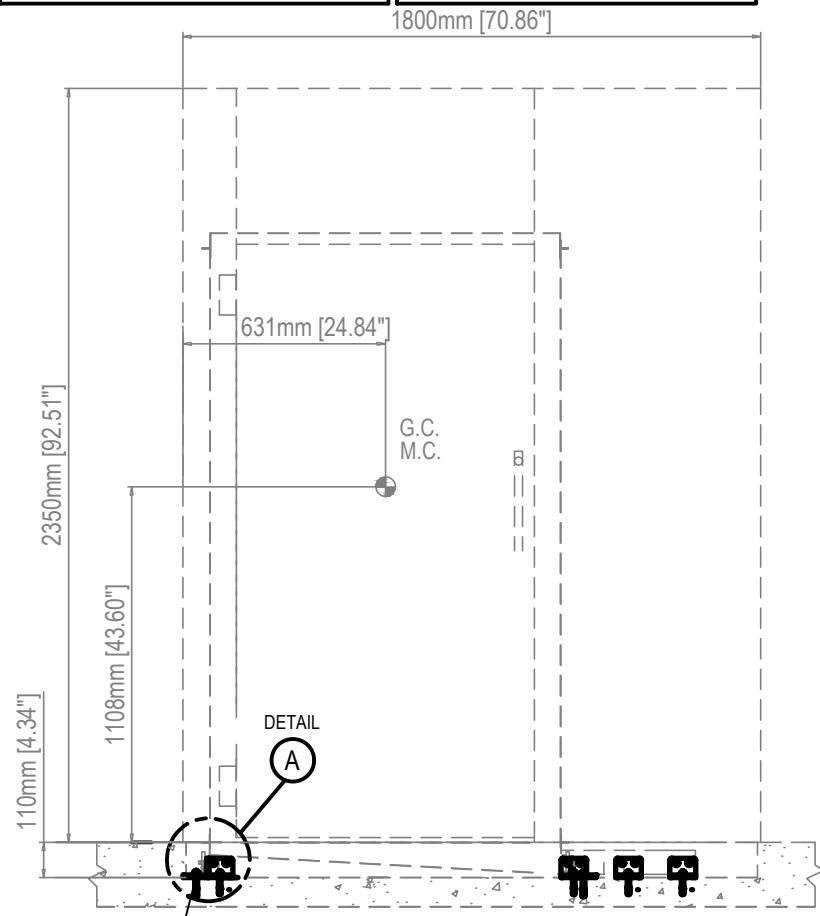


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STEELCO WASHING AND DISINFECTION CABINS
MODEL N° LC 20/2 - CHAMBER

WEIGHT= 2715 POUNDS
G.C.= Gravity center
M.C.= Mass center



FRONT ANCHORAGE ELEVATION N.T.S.

NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

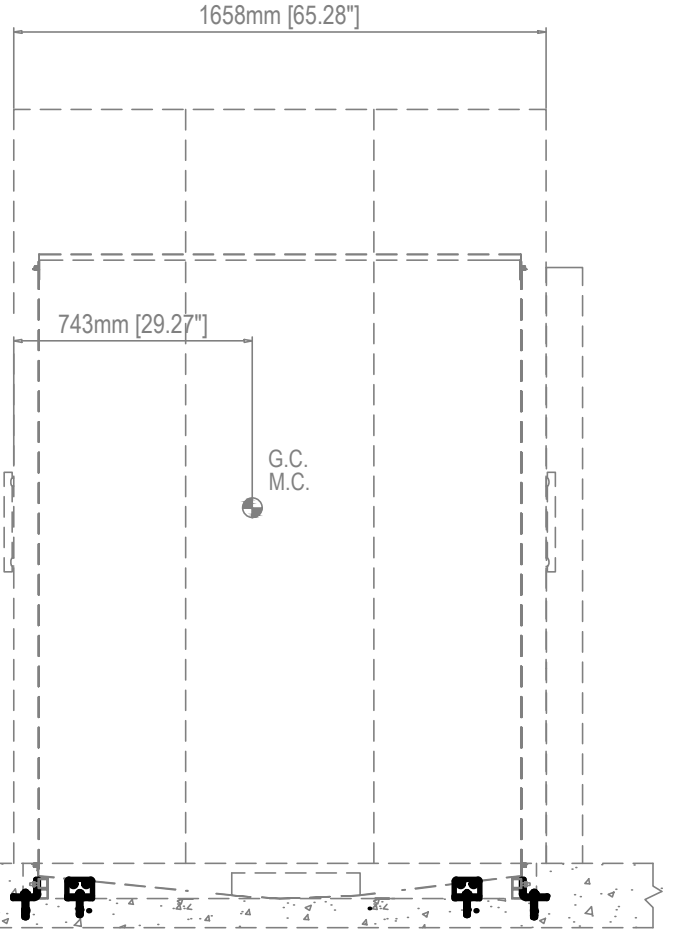
- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

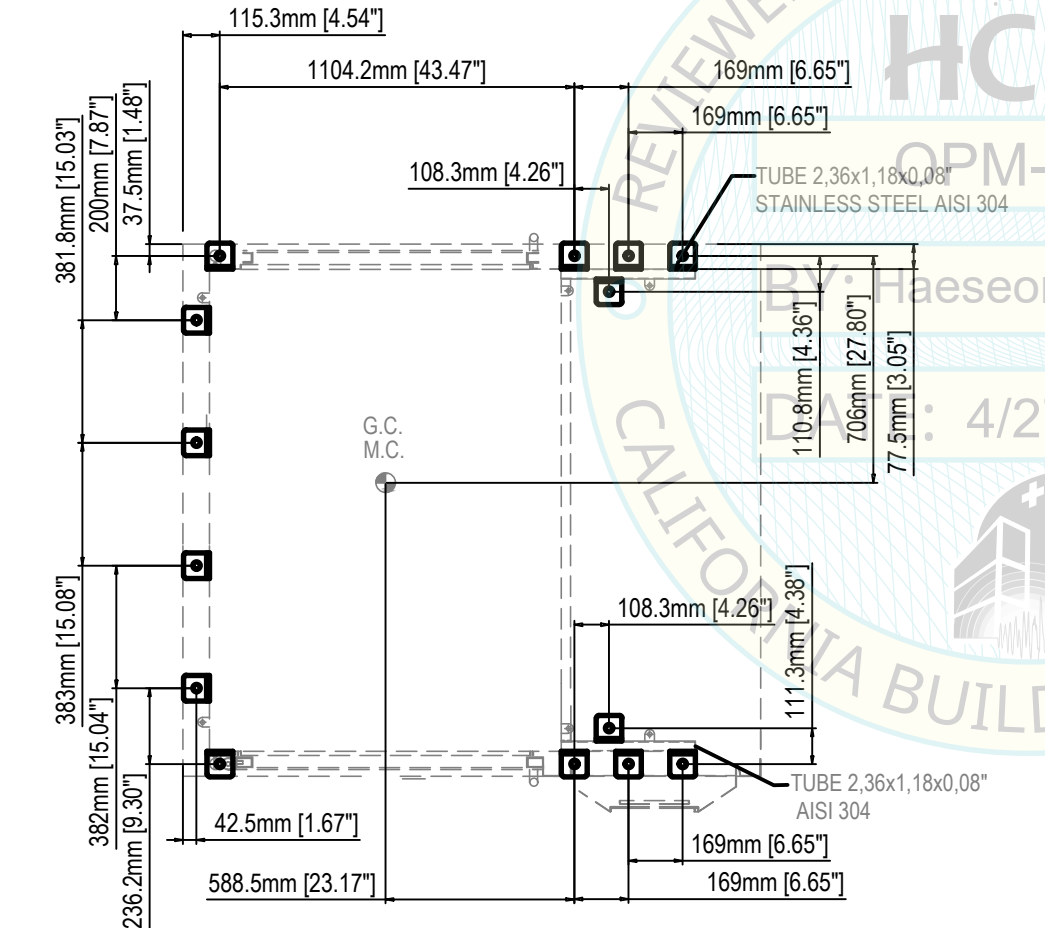
- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"

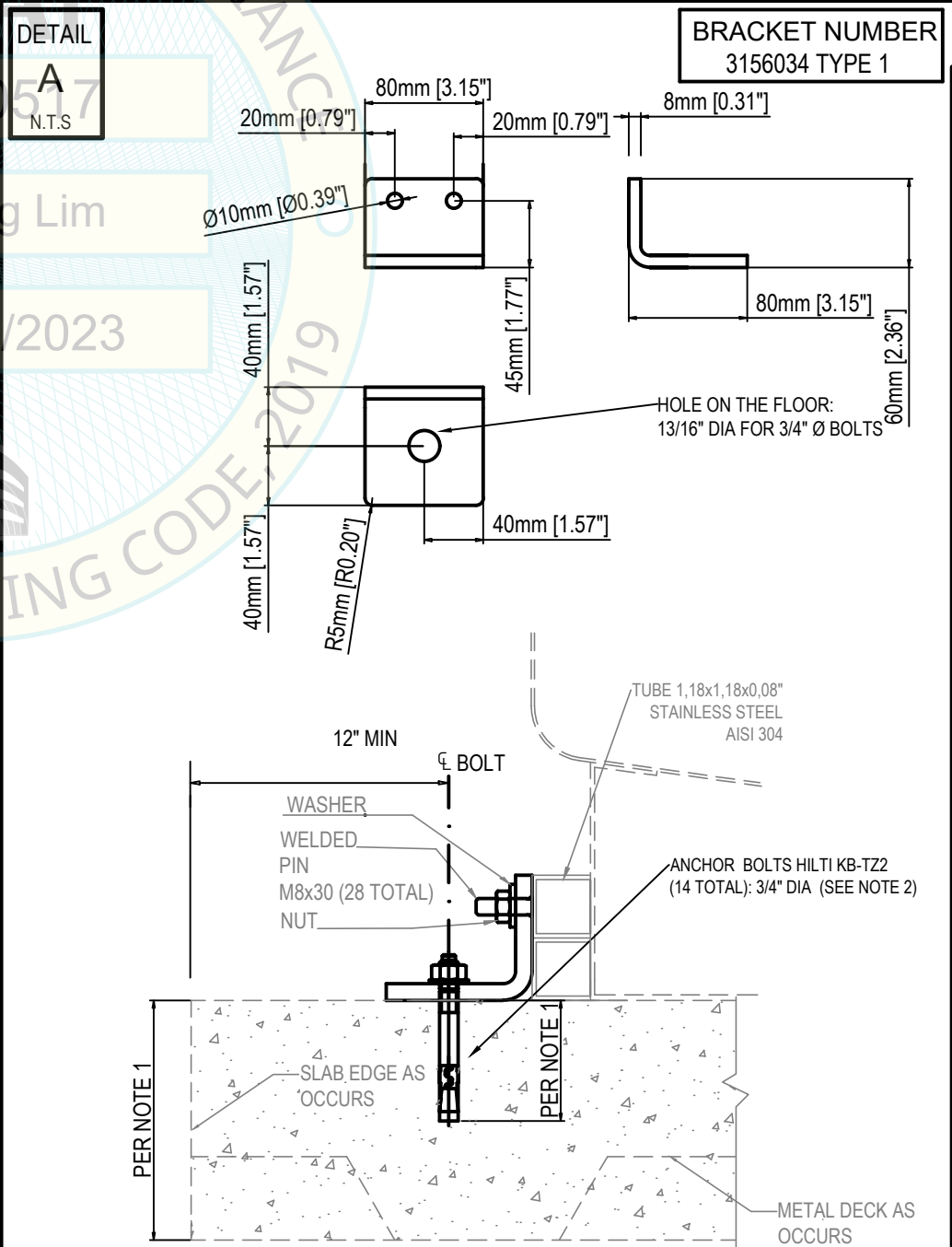
NOTE 2
PROVIDE SHIMS (FILLERS) < 1/4" WITHOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16 § J5



SIDE ANCHORAGE ELEVATION N.T.S.



ANCHORAGE LAYOUT @ BASE N.T.S.



Steelco
LC 20/2 CHAMBER

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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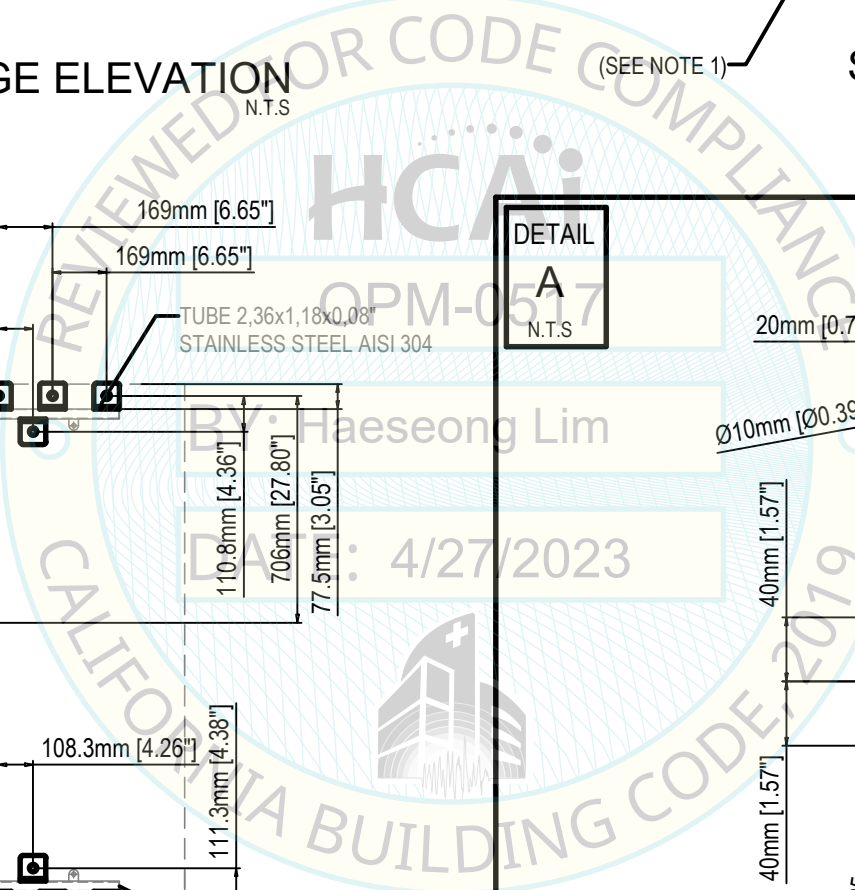
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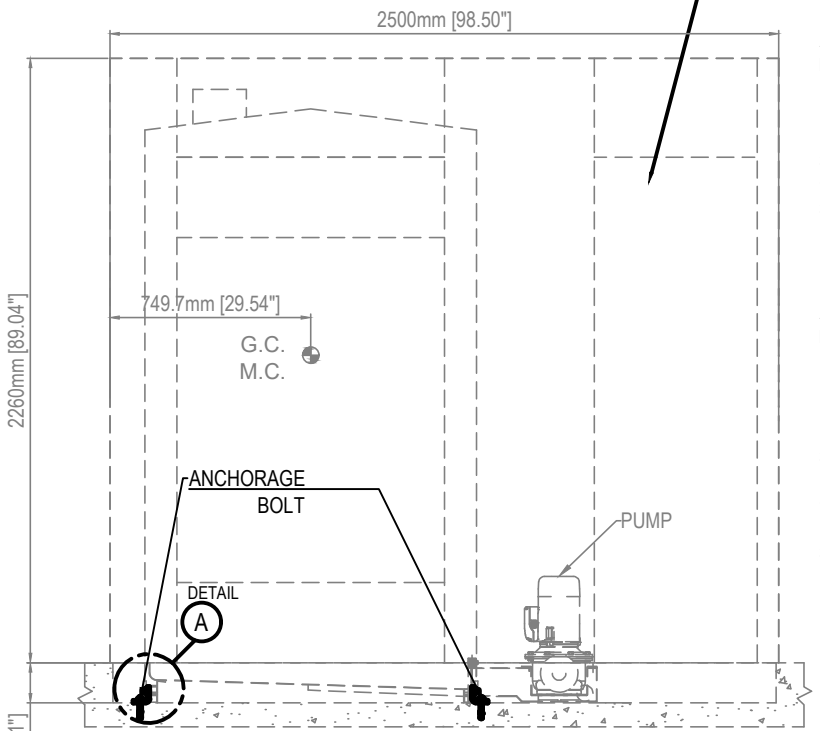
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2023



STEELCO WASHING AND DISINFECTION CABINS
MODEL N° LC 20/2 - CHAMBER

WEIGHT= 2715 POUNDS
G.C.= Gravity center
M.C.= Mass center

FOR INFORMATION REGARDING TANK PLEASE SEE "LC80/2 THANK"

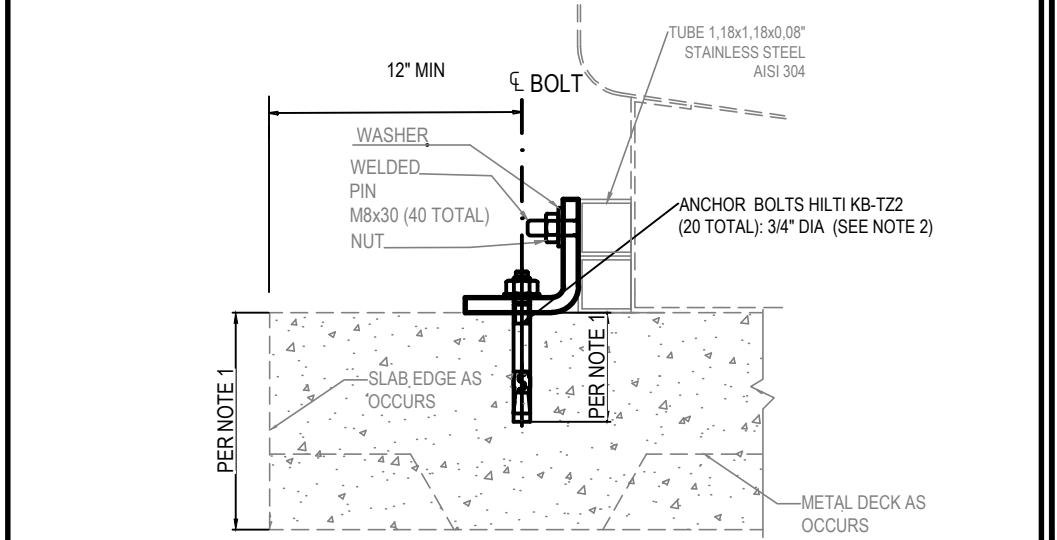
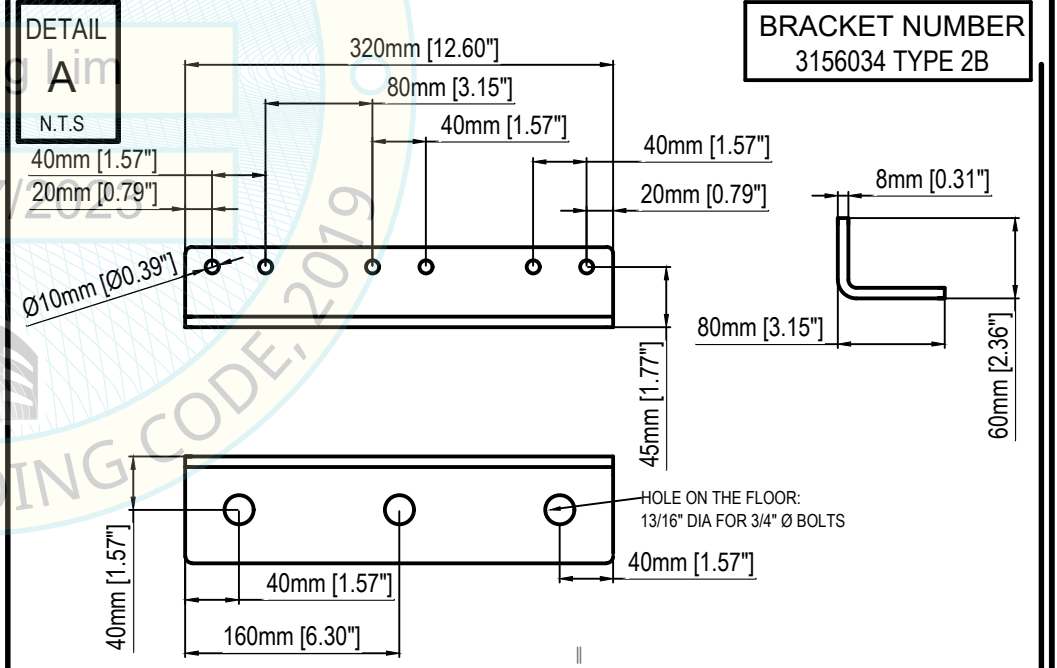
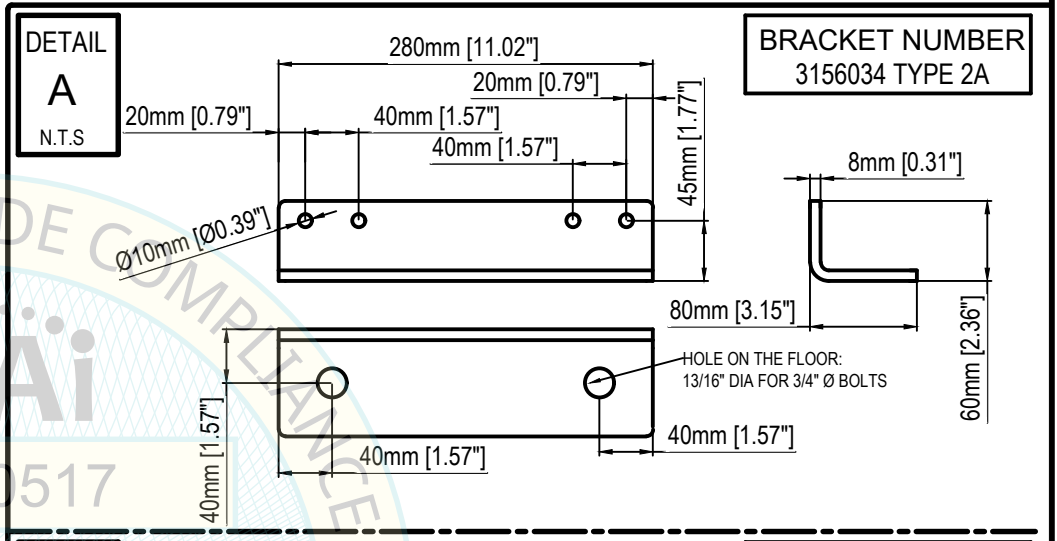
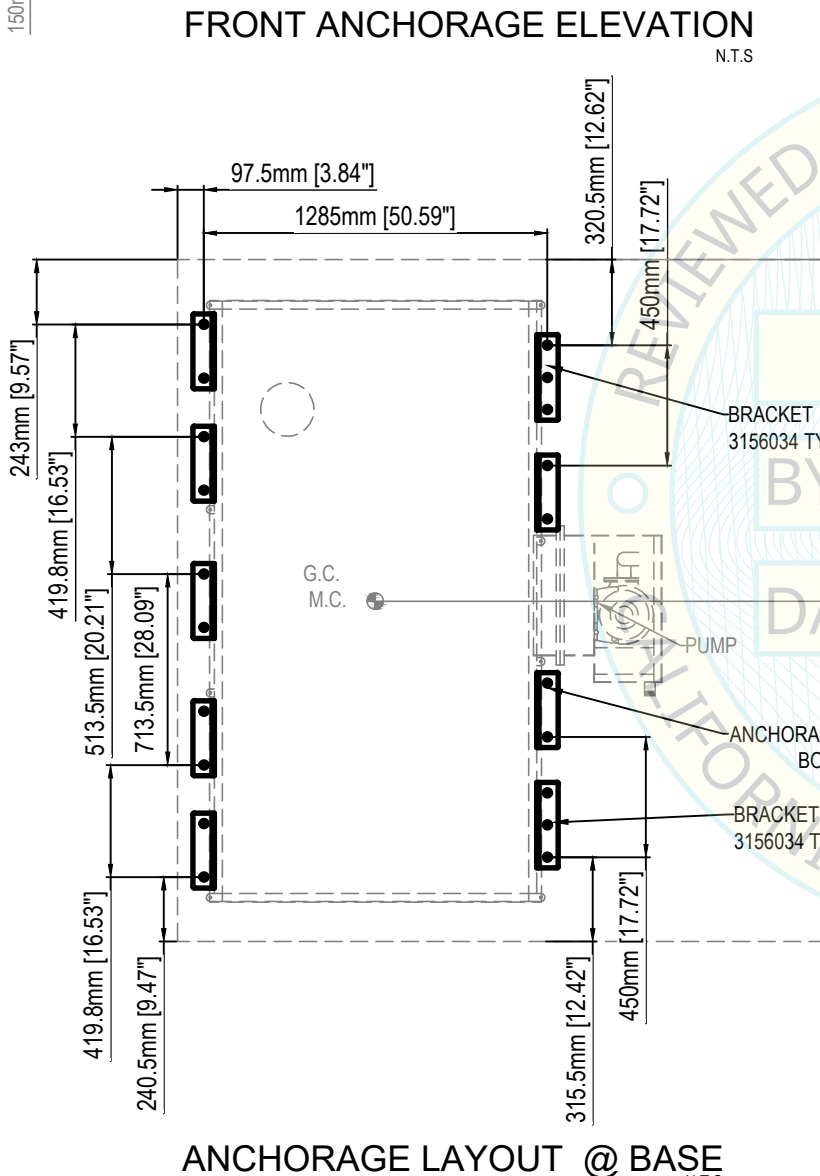
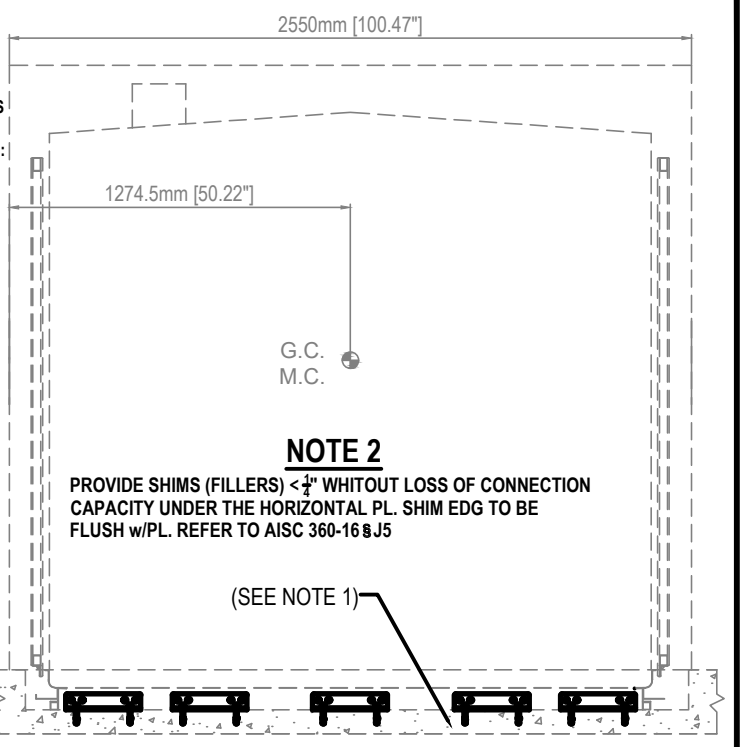


NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:
1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"



Steelco
LC 80/2 CHAMBER

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

Steelco
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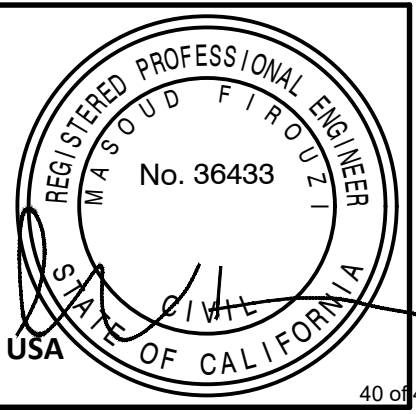
STEELCO, S.P.A.
VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
PH.+39 04237561
OPM 0517-19
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STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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2023

STEELCO WASHING AND DISINFECTION CABINS
MODEL N° LC 80/3 - CHAMBER

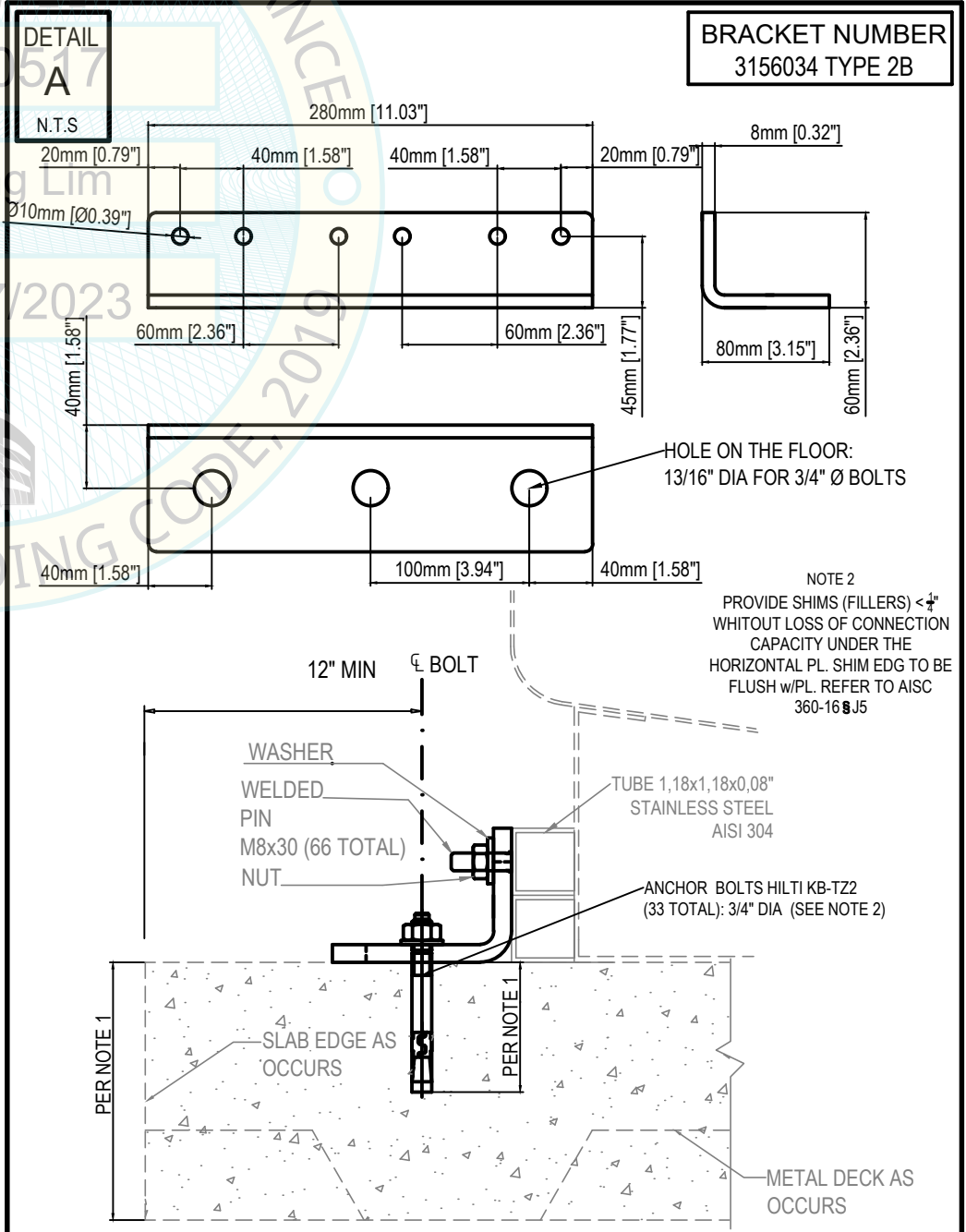
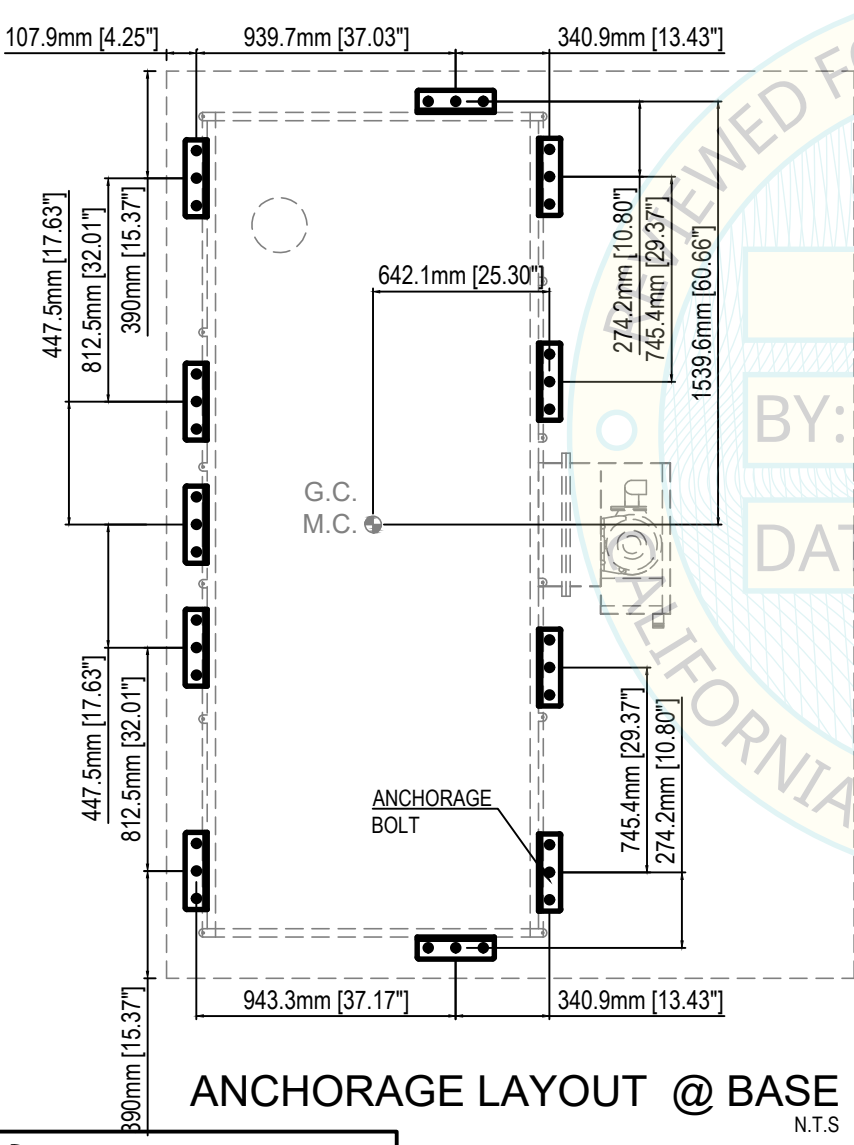
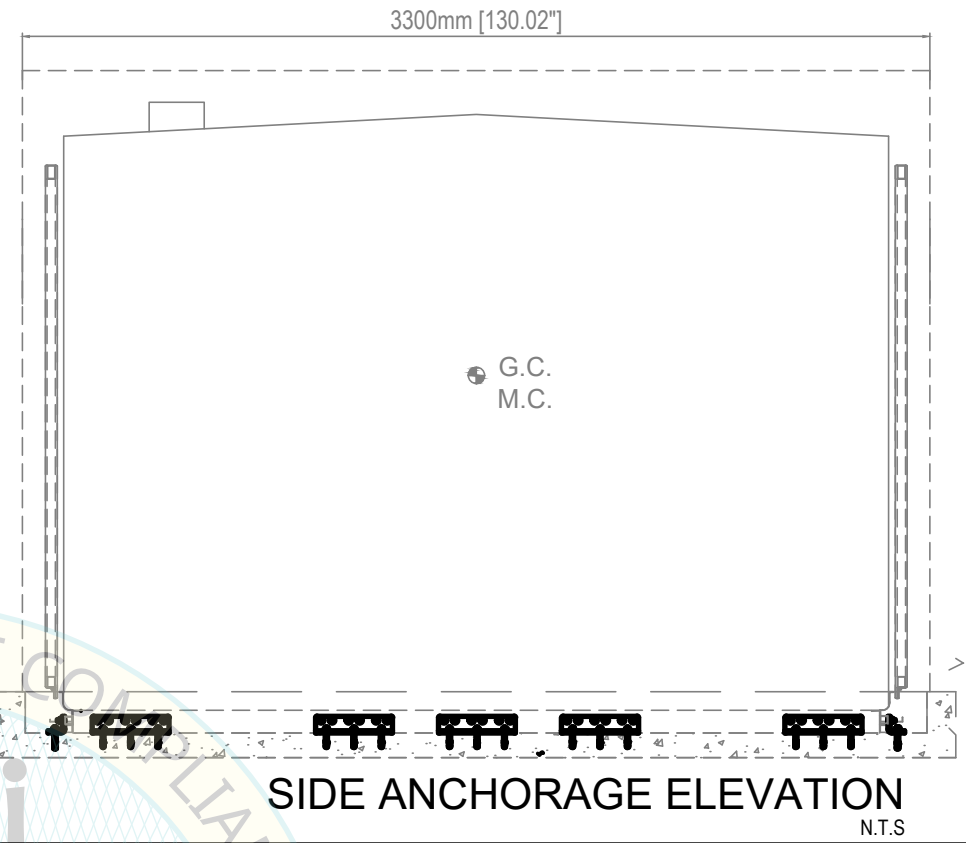
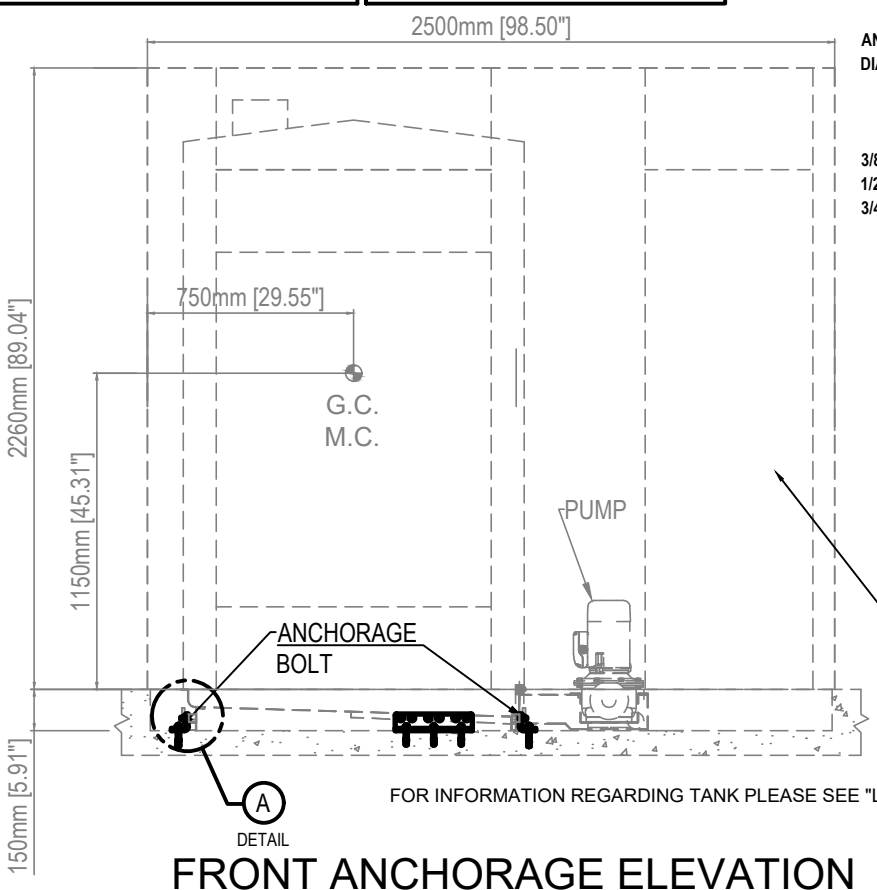
WEIGHT= 5111 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:
- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS	ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN f'c=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW	4"	3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"	1/2"	3 1/4"	or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"	3/4"	3 3/4"	or SAND LW	6"



Steelco
LC 80/3 CHAMBER

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
PH.+39 04237561

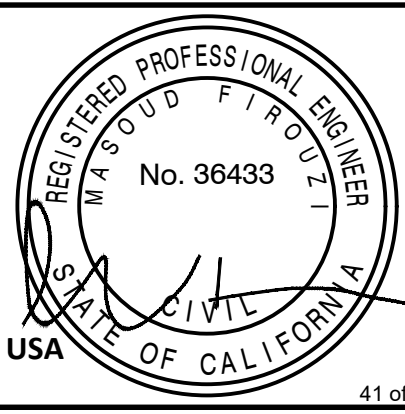
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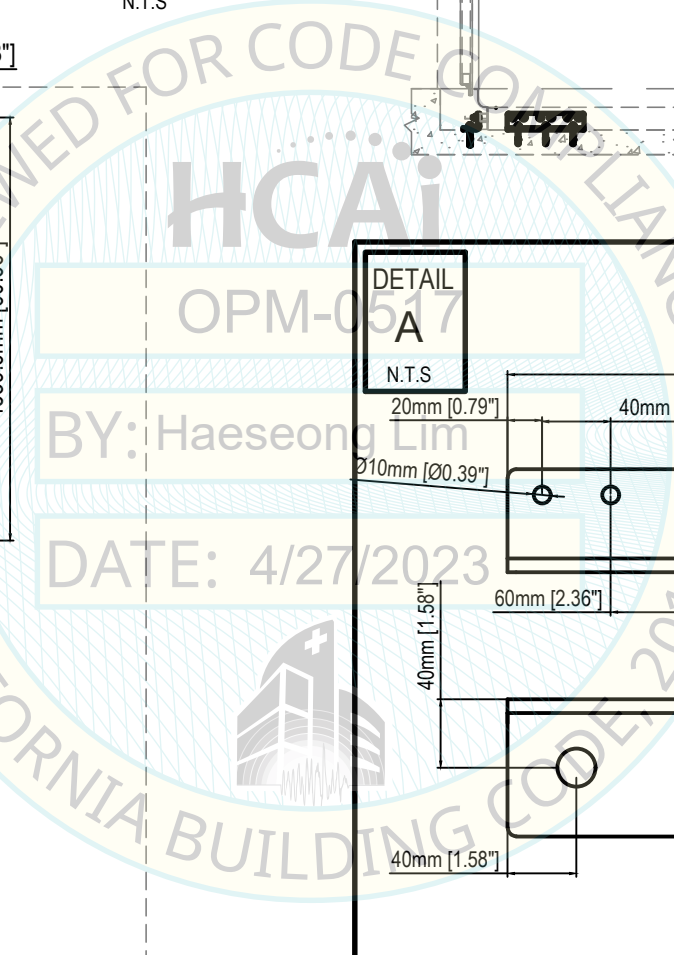
STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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2023



STEELCO ULTRASONIC
CLEANING DEVICES MODEL
N° US 100 XL

WEIGHT= 729 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

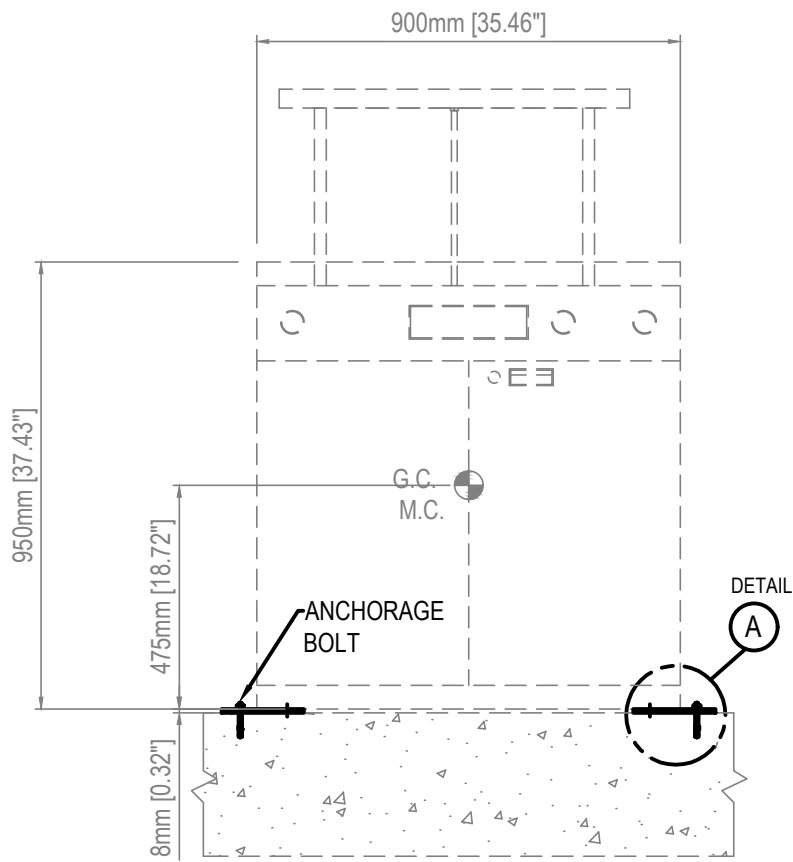
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

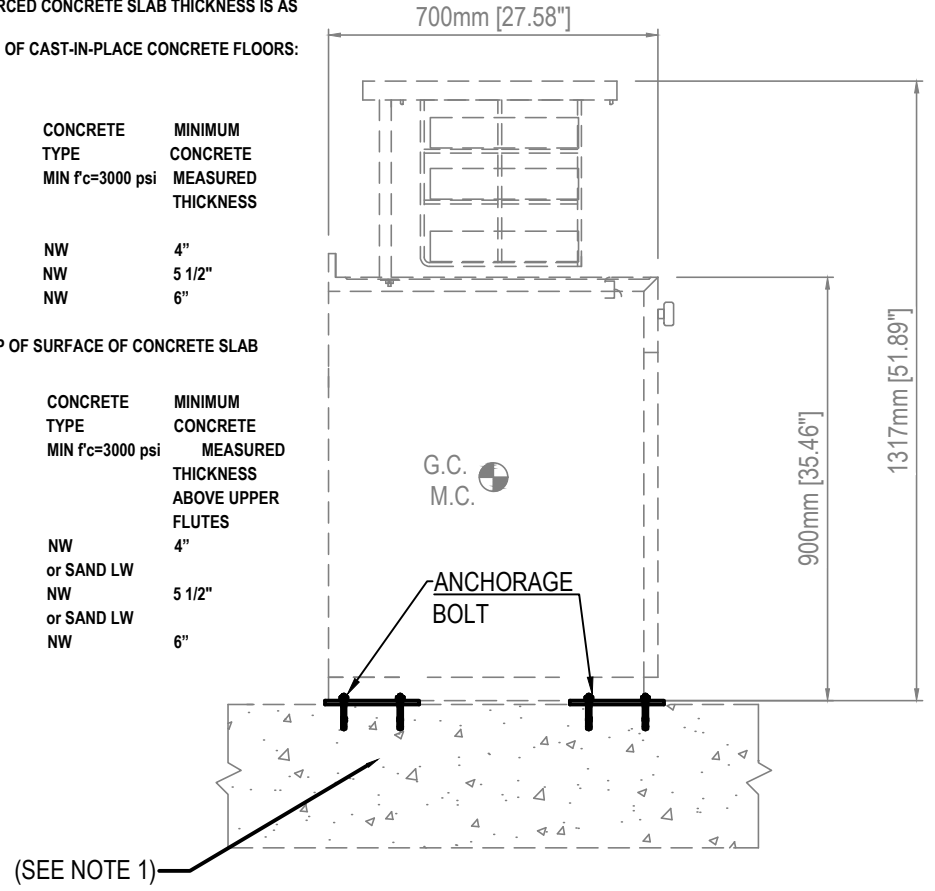
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

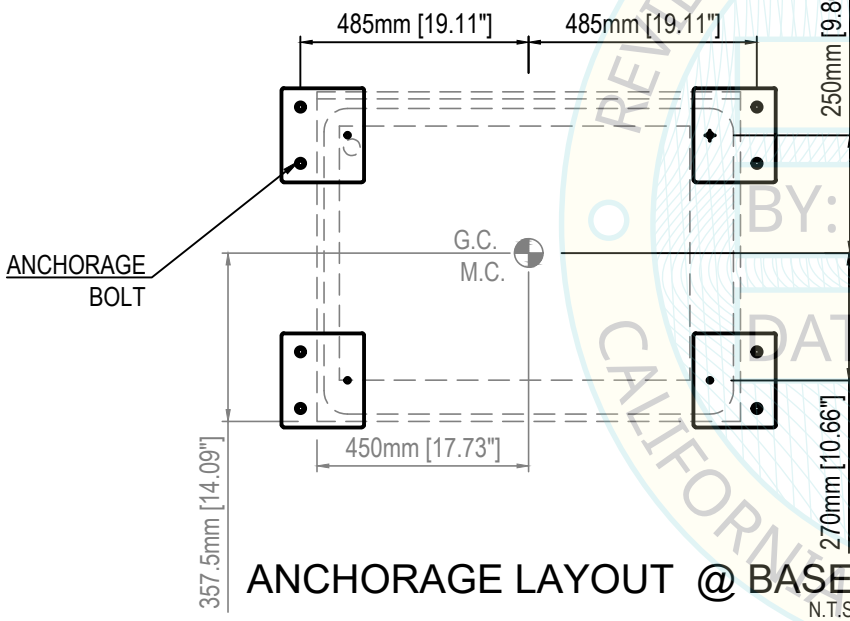
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"



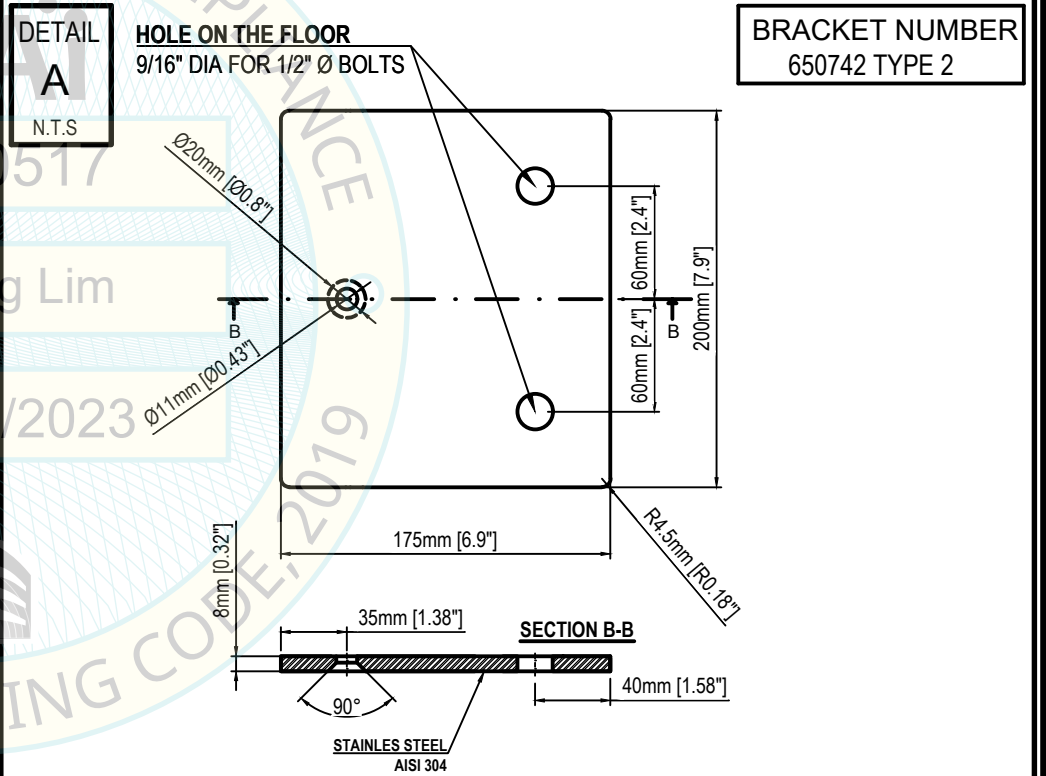
FRONT ANCHORAGE ELEVATION
N.T.S



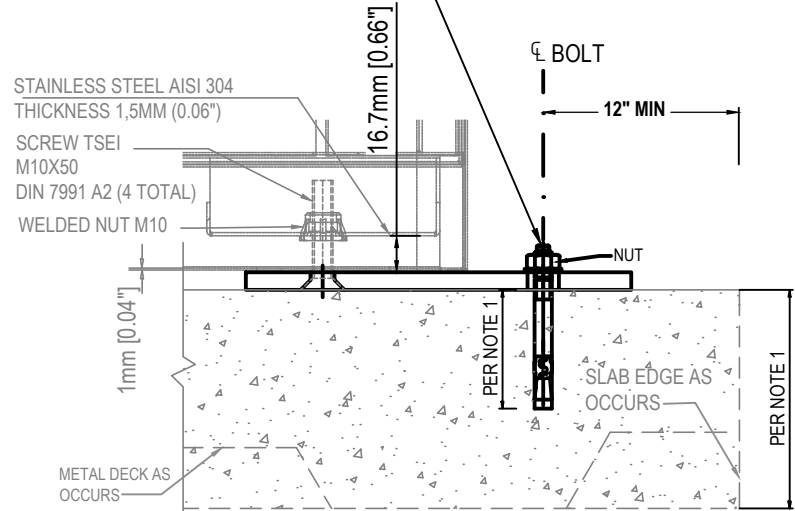
SIDE ANCHORAGE ELEVATION
N.T.S



ANCHORAGE LAYOUT @ BASE
N.T.S



ANCHOR BOLTS HILTI KB-TZ2
(8 TOTAL): 1/2" DIA



BRACKET NUMBER
650742 TYPE 2

Steelco
N° US 100 XL

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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**FIROUZI
CONSULTING
ENGINEERS, INC.**

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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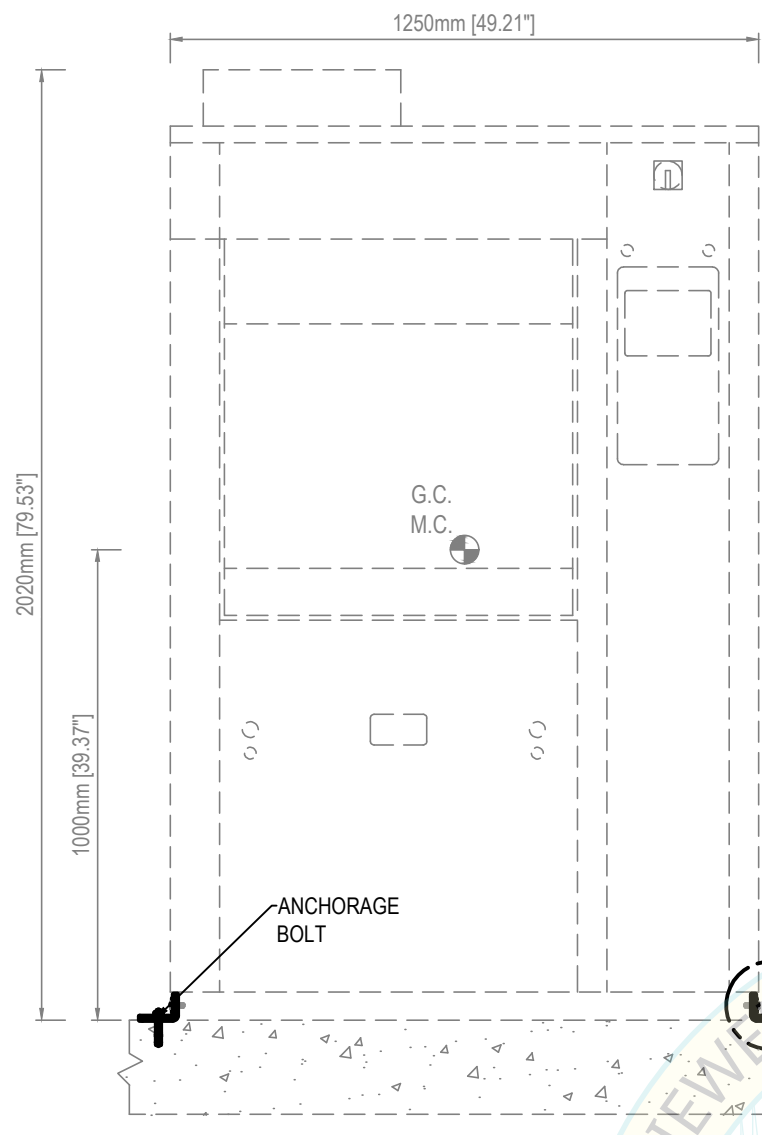
DATE:

APRIL 06

2023

STEELCO ULTRASONIC
CLEANING DEVICES MODEL
N° US 900

WEIGHT= 2527 POUNDS
G.C.= Gravity center
M.C.= Mass center



FRONT ANCHORAGE ELEVATION
N.T.S.

NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

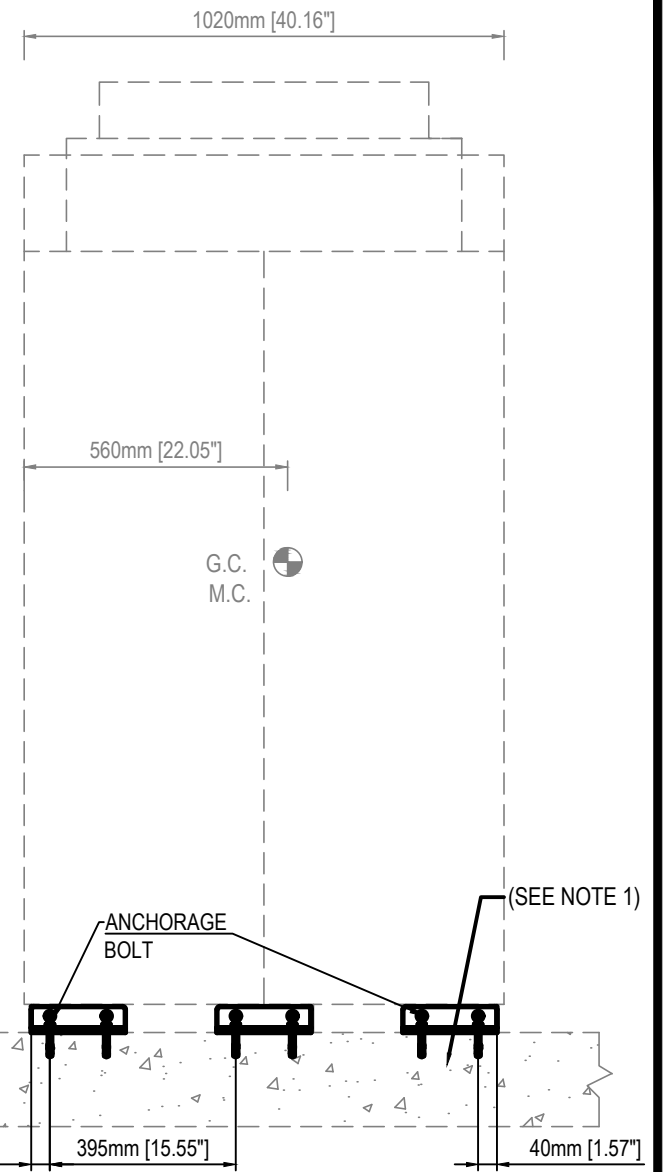
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

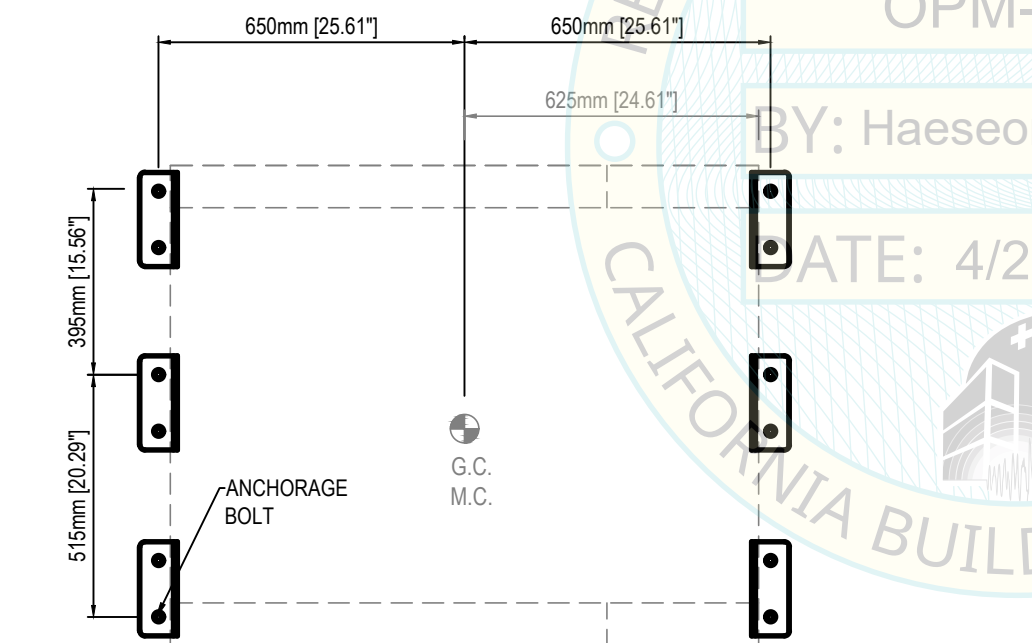
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

NOTE 2

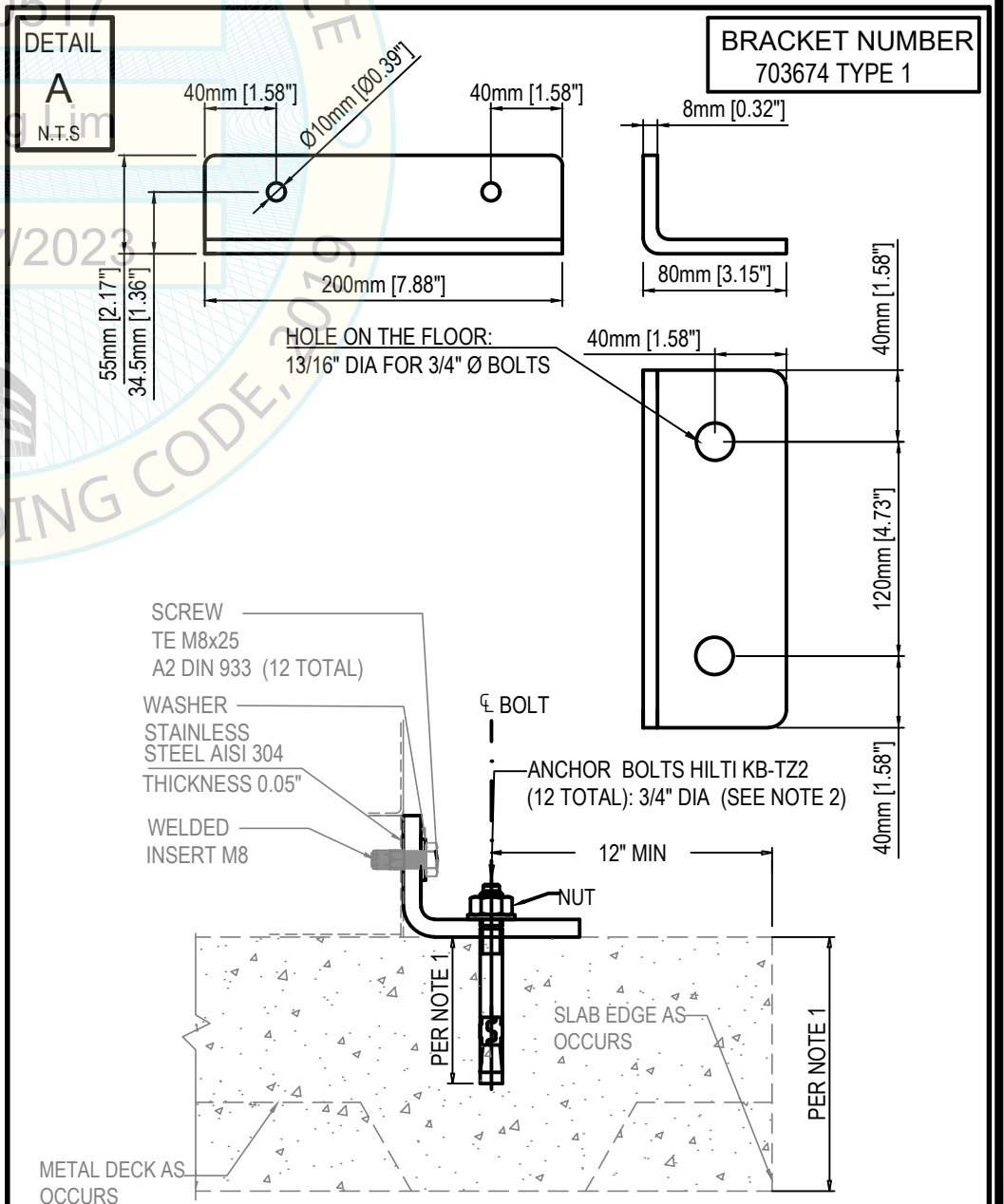
PROVIDE SHIMS (FILLERS) < 1/4" WHITOUT LOSS OF CONNECTION
CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH
w/PL. REFER TO AISC 360-16 §J5



SIDE ANCHORAGE ELEVATION
N.T.S.



ANCHORAGE LAYOUT @ BASE
N.T.S.



SCREW
TE M8x25
A2 DIN 933 (12 TOTAL)

WASHER
STAINLESS
STEEL AISI 304
THICKNESS 0.05"

WELDED
INSERT M8

ANCHOR BOLTS HILTI KB-TZ2
(12 TOTAL); 3/4" DIA (SEE NOTE 2)

12" MIN

NUT

PER NOTE 1

PER NOTE 1

METAL DECK AS OCCURS

SLAB EDGE AS OCCURS

BRACKET NUMBER
703674 TYPE 1

40mm [1.58"]

80mm [3.15"]

120mm [4.73"]

40mm [1.58"]

8mm [0.32"]

40mm [1.58"]

55mm [2.17"]

34.5mm [1.36"]

40mm [1.58"]

40mm [1.58"]

200mm [7.88"]

Ø10mm [0.39"]

40mm [1.58"]

40mm [1.58"]

HOLE ON THE FLOOR:
13/16" DIA FOR 3/4" Ø BOLTS

DETAIL
A
N.T.S.

STRUCTURAL DESIGN BY:

**FIROUZI
CONSULTING
ENGINEERS, INC.**

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997

REGISTERED PROFESSIONAL ENGINEER
M ASOUD FIROUZI
No. 36433
STATE OF CALIFORNIA

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APRIL 06
2023

Steelco
N° US 900

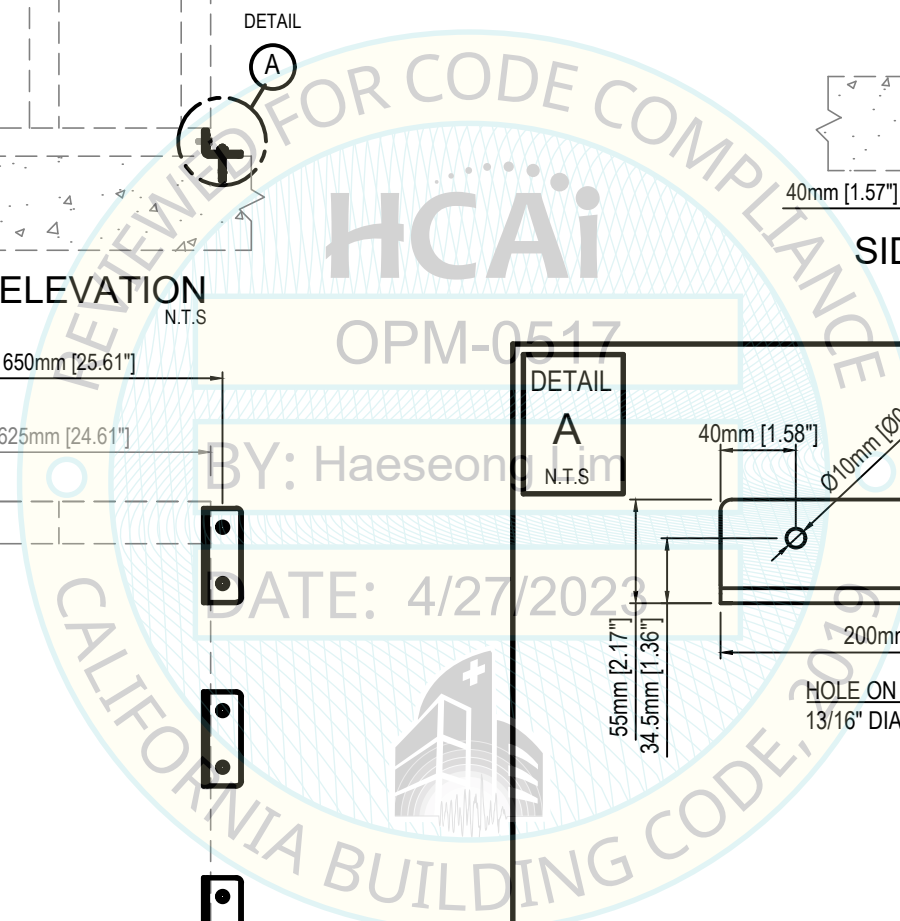
EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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PH.+39 04237561

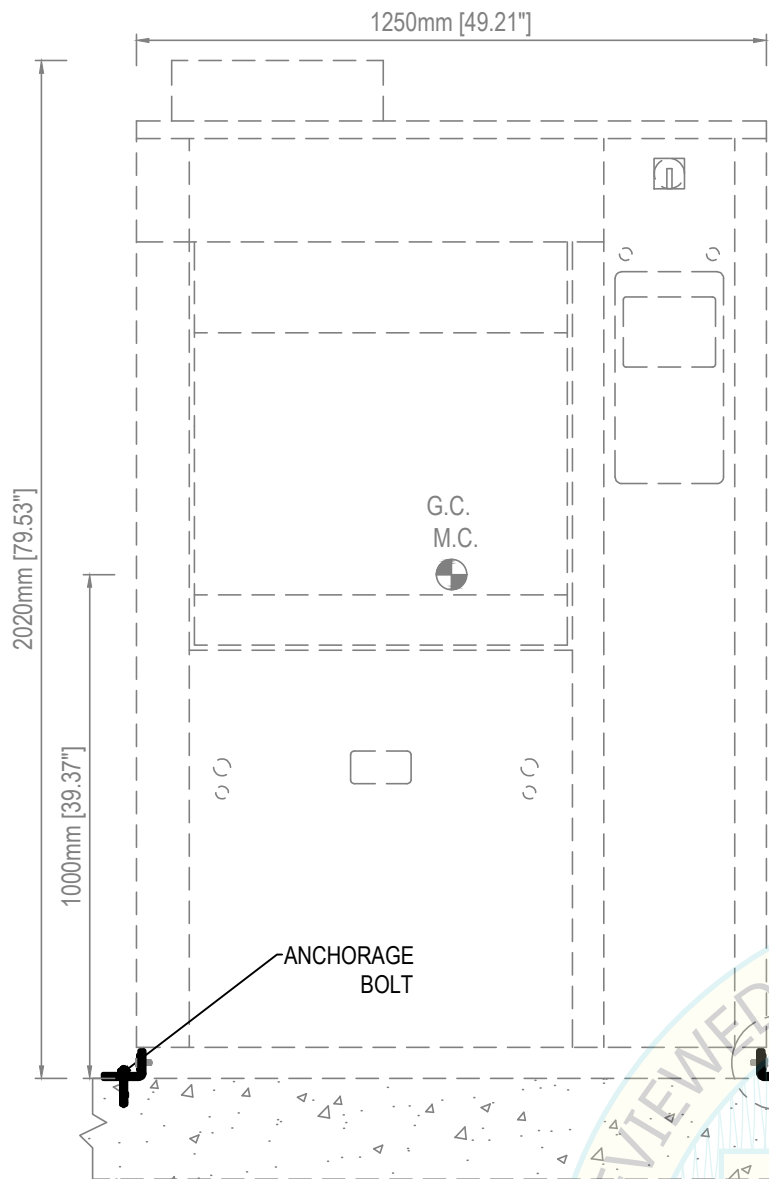
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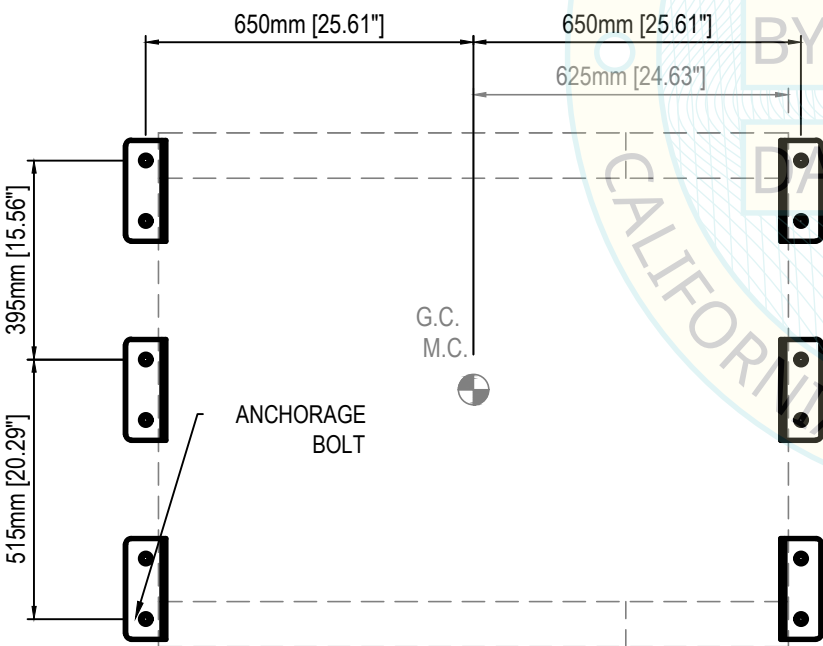


STEELCO ULTRASONIC
CLEANING DEVICES MODEL
N° US 1000

WEIGHT= 2643 POUNDS
G.C.= Gravity center
M.C.= Mass center



FRONT ANCHORAGE ELEVATION
N.T.S



ANCHORAGE LAYOUT @ BASE
N.T.S

NOTE 1
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

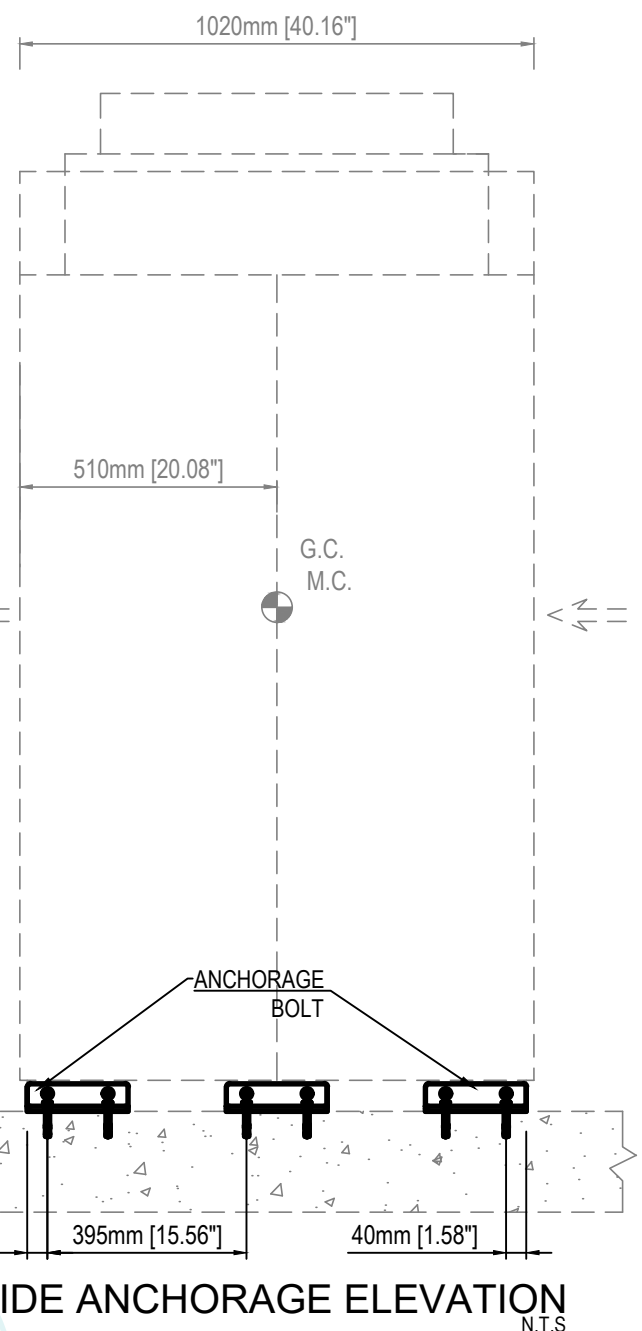
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

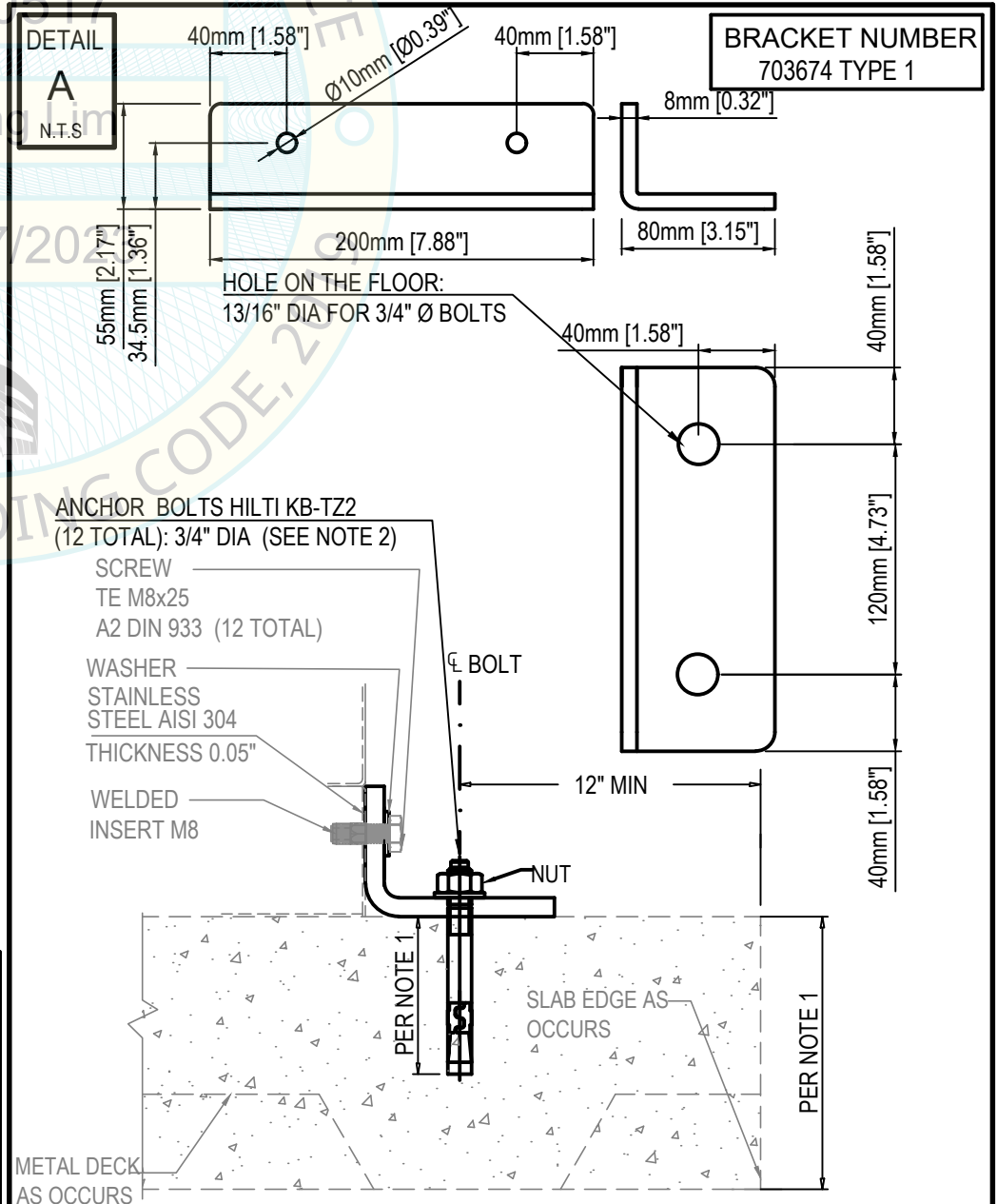
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW or SAND LW	6"

NOTE 2

PROVIDE SHIMS (FILLERS) $\frac{1}{4}$" WHITOUT LOSS OF CONNECTION CAPACITY UNDER THE HORIZONTAL PL. SHIM EDG TO BE FLUSH w/PL. REFER TO AISC 360-16 §J5



SIDE ANCHORAGE ELEVATION
N.T.S



Steelco
N° US 1000

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
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STRUCTURAL DESIGN BY:

FIROUZI CONSULTING ENGINEERS, INC.

5965 VILLAGE WAY, STE 105
SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997

REGISTERED PROFESSIONAL ENGINEER
MASOUD FIROUZI
No. 36433
STATE OF CALIFORNIA

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DATE: APRIL 06 2023

STEELCO WASHING AND
DISINFECTION CABINS
MODEL N° LC 20/1 &
LC 20/2 TANKS

WEIGHT= 1887 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

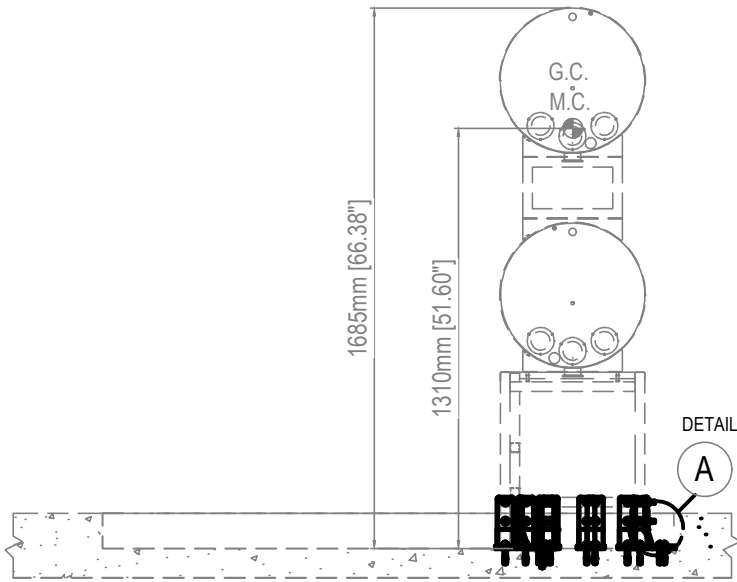
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

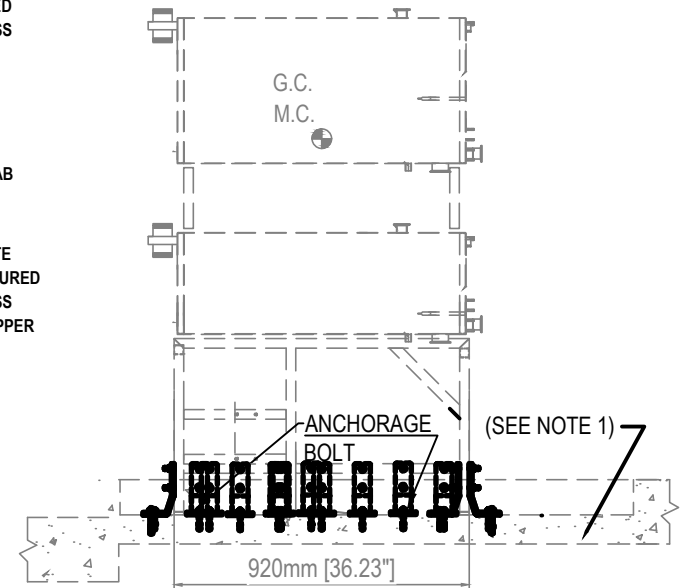
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB OVER METAL DECK:

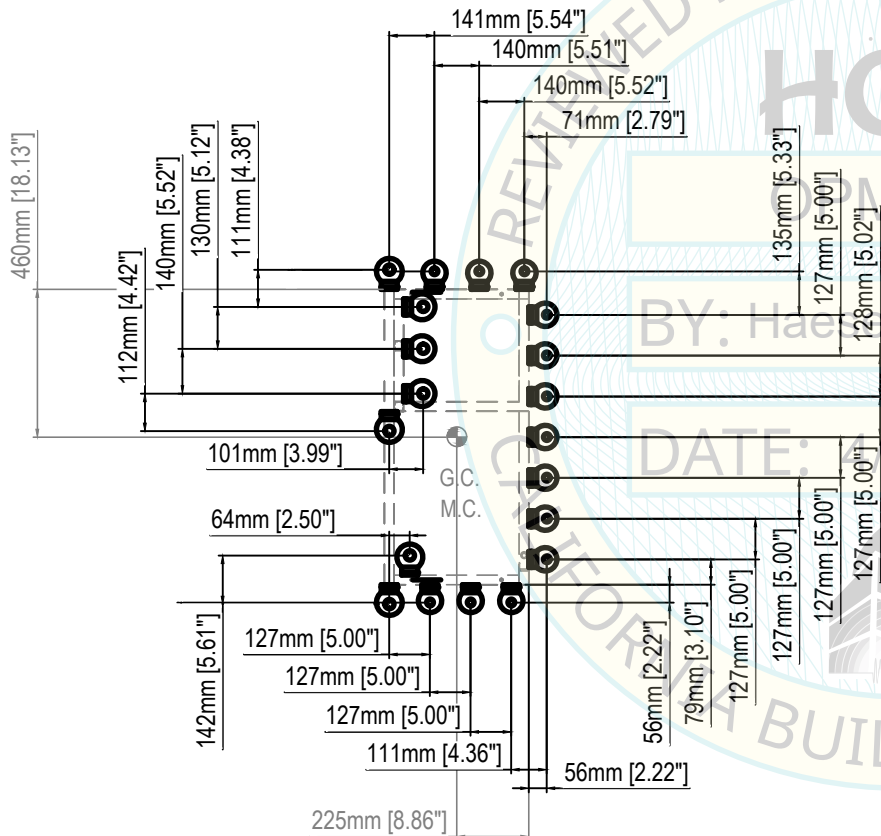
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"



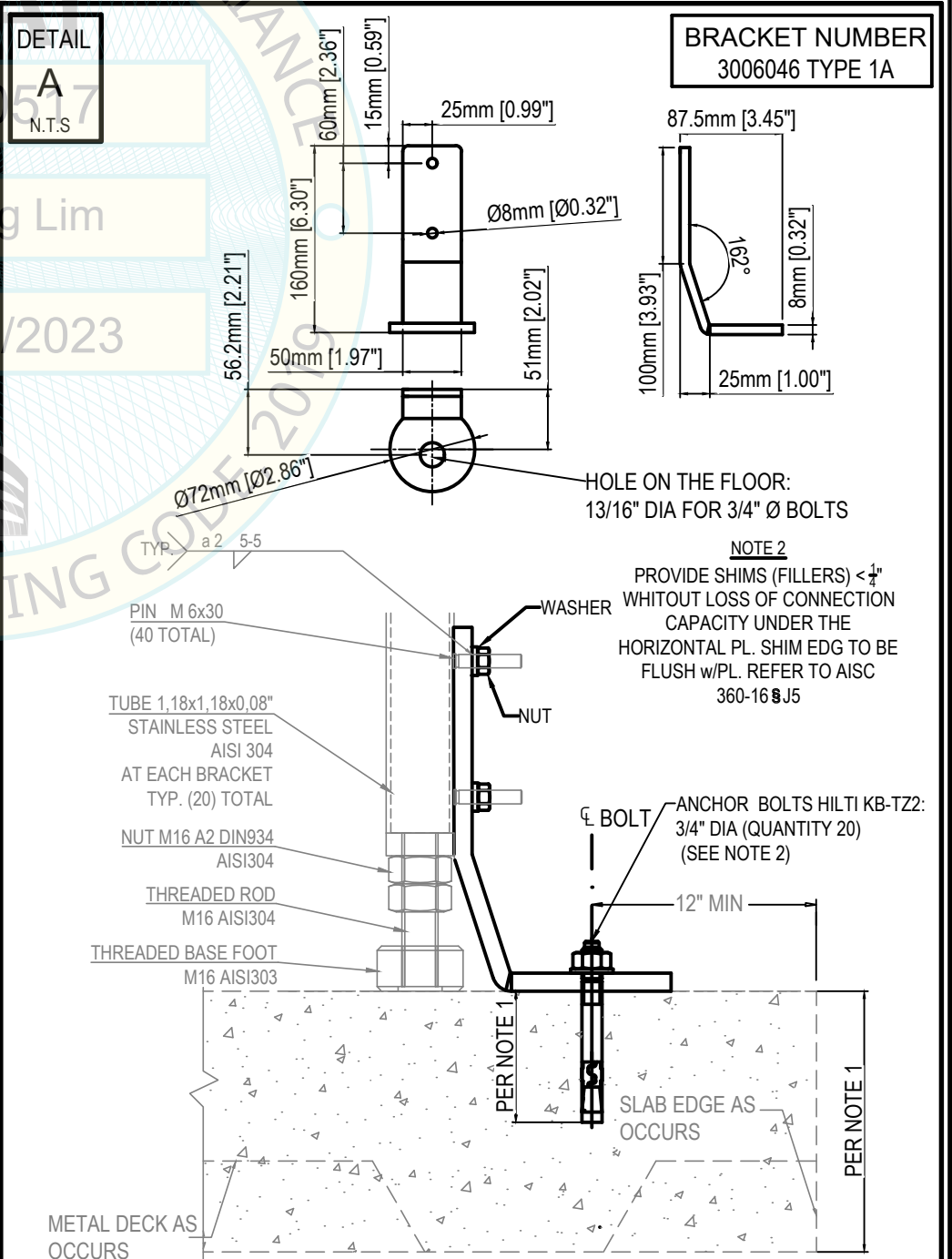
FRONT ANCHORAGE ELEVATION
N.T.S



SIDE ANCHORAGE ELEVATION
N.T.S



ANCHORAGE LAYOUT @ BASE
N.T.S



Steelco
LC 20/1 & - LC 20/2 TANKS

EQUIPMENT LIST FOR OPM-0517-19:

DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks



STEELCO, S.P.A.
VIA BALEGANTE, 27 31039, RIESE PIO X(TV), ITALY,
PH.+39 04237561

OPM 0517-19
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SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997



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STEELCO WASHING AND
DISINFECTION CABINS
MODEL N° LC 80/2 &
LC 80/3 - TANKS

WEIGHT= 3021 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

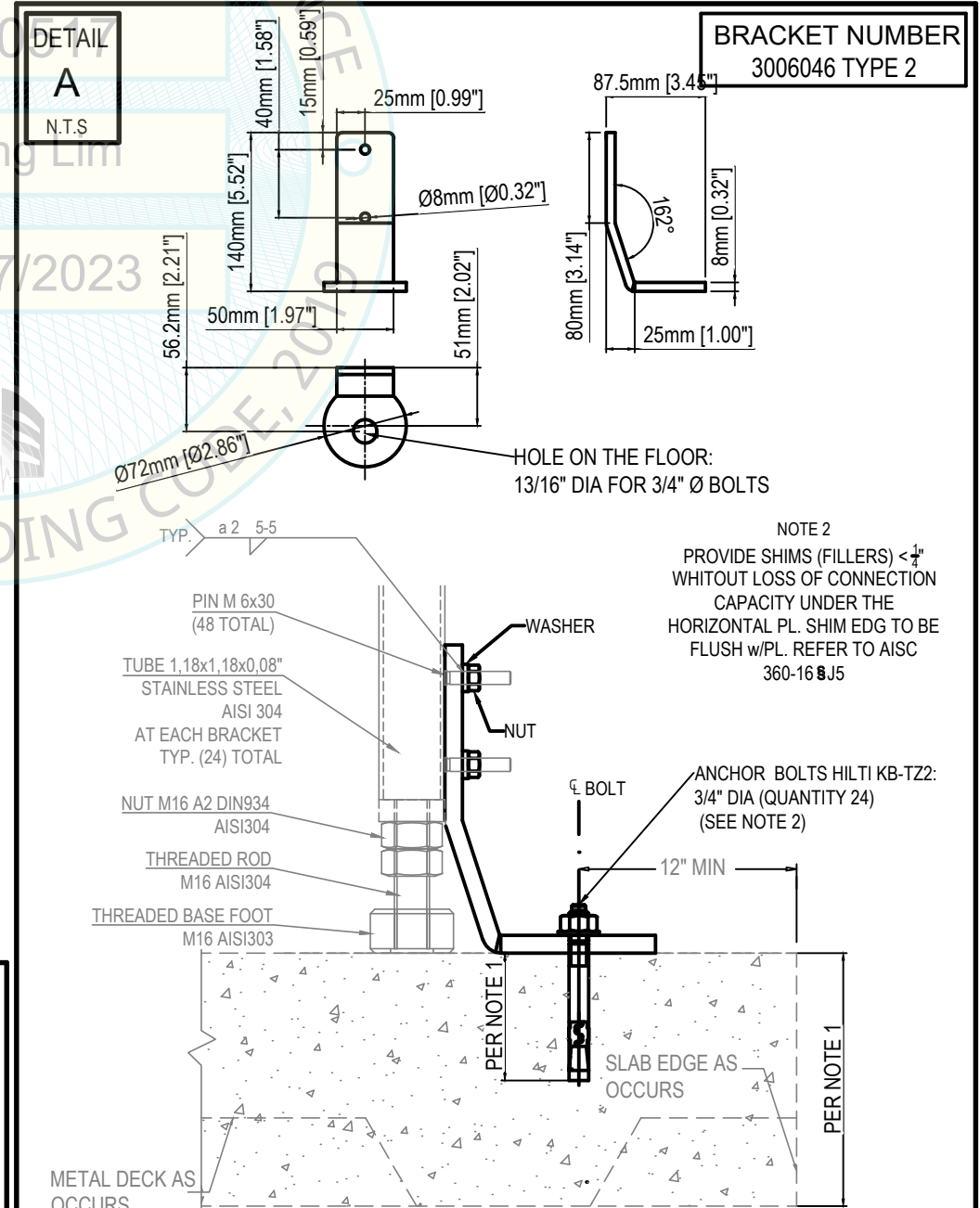
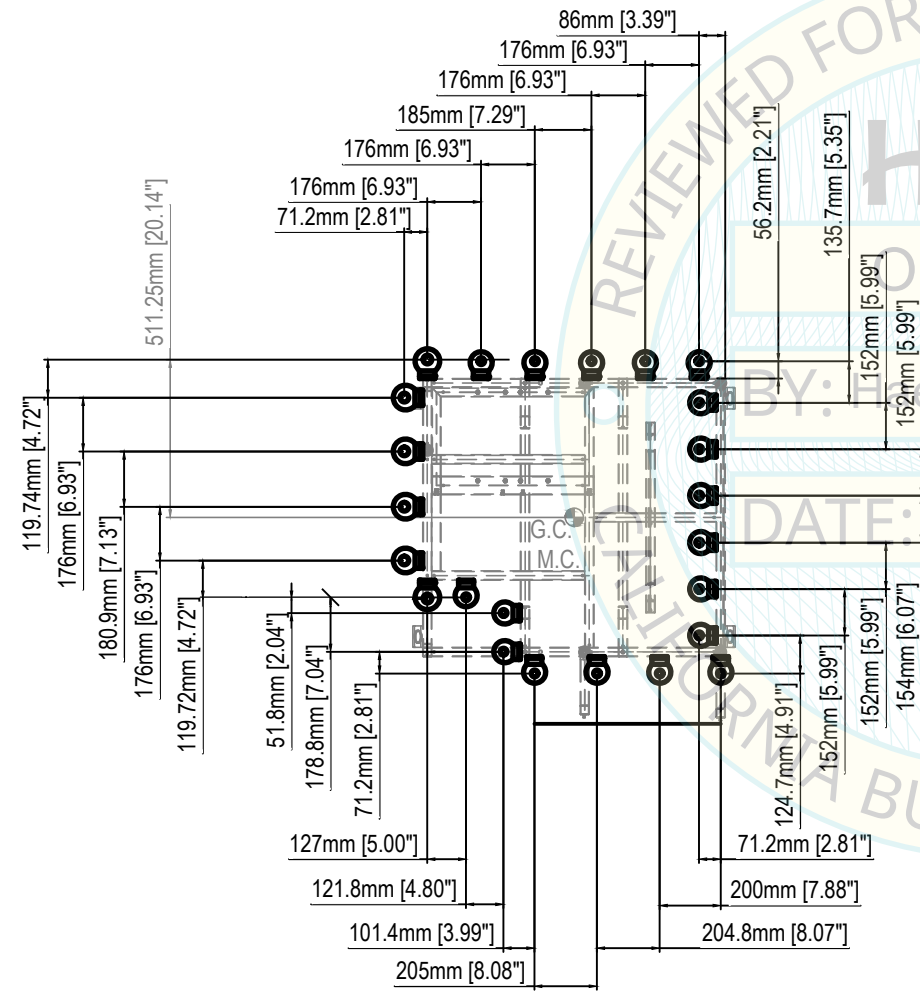
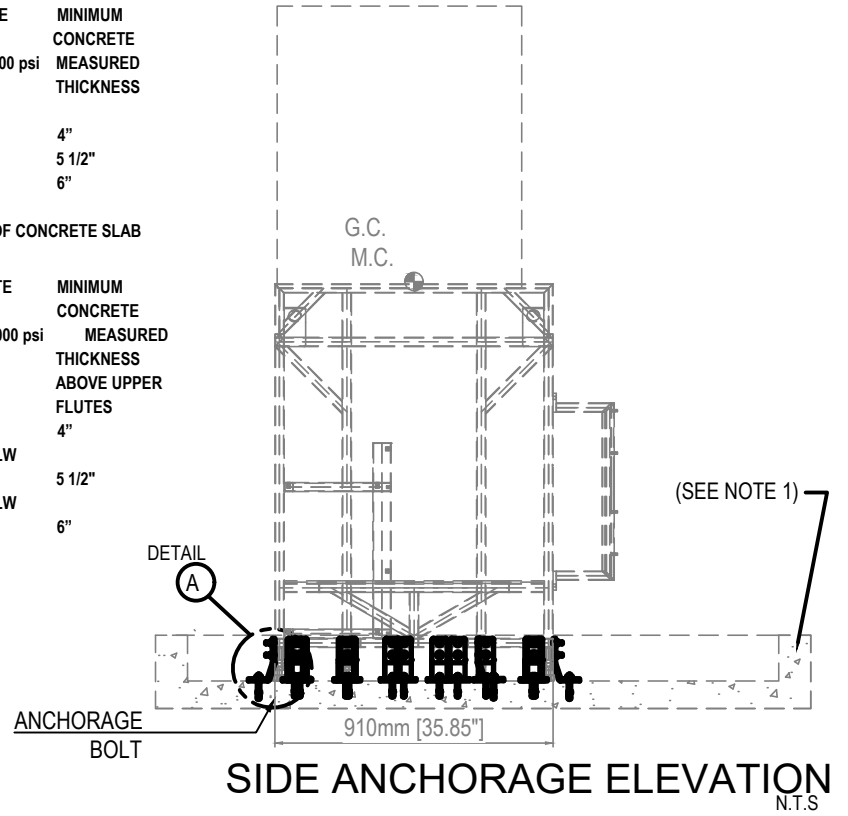
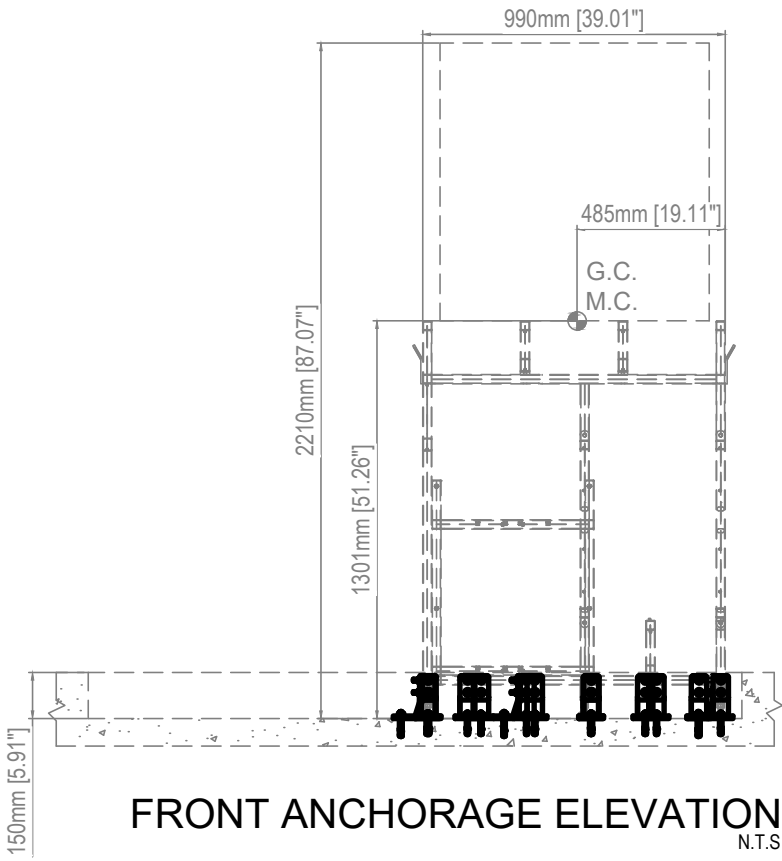
THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

- 1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:
 - ELEVATED SLABS: 8" MIN
 - SLAB-ON-GRADE:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

- 2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"



NOTE 2
PROVIDE SHIMS (FILLERS) $\frac{1}{4}$
WHITOUT LOSS OF CONNECTION
CAPACITY UNDER THE
HORIZONTAL PL. SHIM EDG TO BE
FLUSH w/PL. REFER TO AISC
360-16 §J5

Steelco
LC 80/2 & LC 80/3 - TANKS

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS
1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED
250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID
300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900,
US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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SAN DIEGO, CALIFORNIA, 92130. USA
619.997.9997

REGISTERED PROFESSIONAL ENGINEER
M ASOUD FIROUZI
No. 36433
STATE OF CALIFORNIA

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STEELCO ULTRASONIC
CLEANING DEVICES MODEL
N° US 100

WEIGHT= 604 POUNDS
G.C.= Gravity center
M.C.= Mass center

NOTE 1

THE MINIMUM STRUCTURAL REINFORCED CONCRETE SLAB THICKNESS IS AS FOLLOWS:

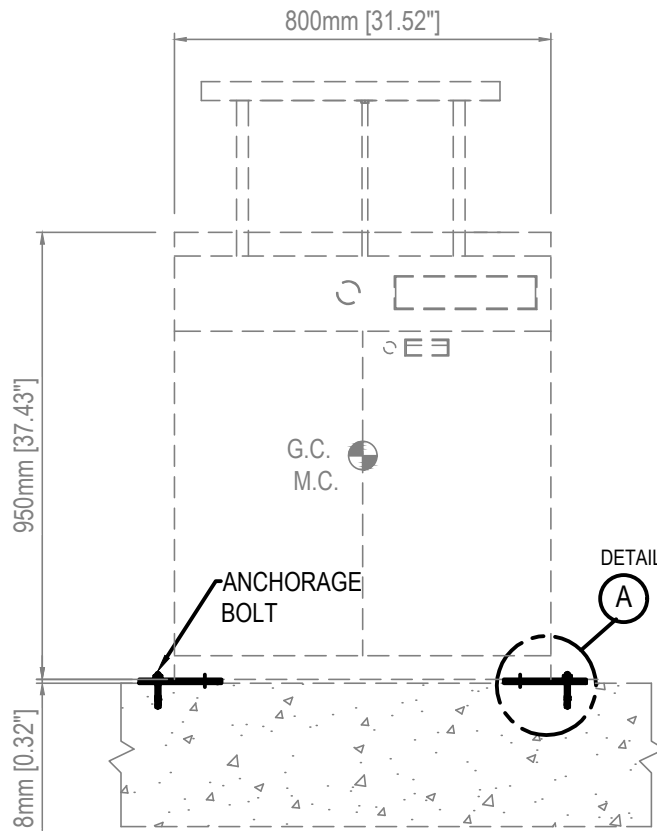
1) EQUIPMENT ATTACHED TO TOP OF CAST-IN-PLACE CONCRETE FLOORS:

- ELEVATED SLABS: 8" MIN
- SLAB-ON-GRADE:

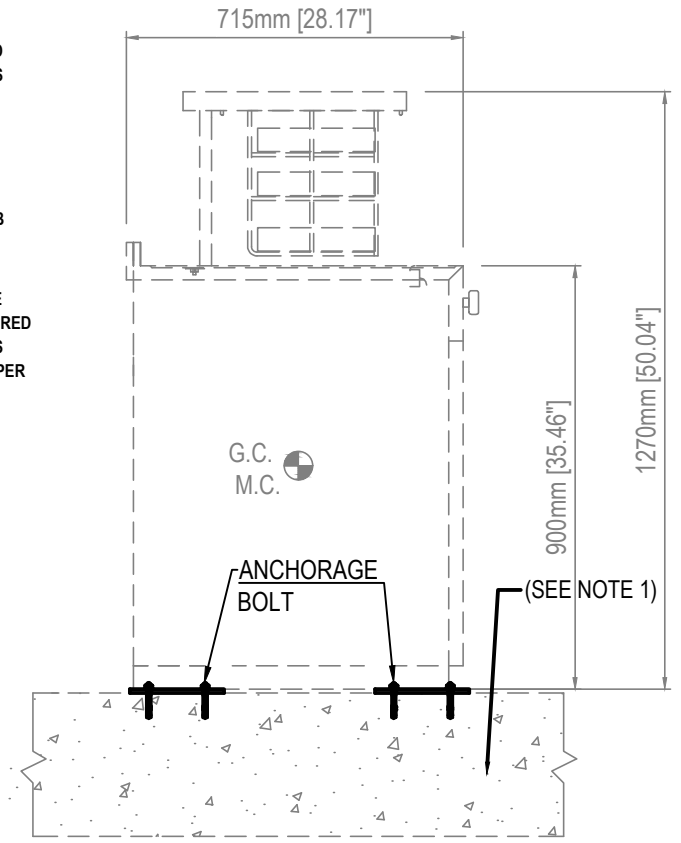
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS
3/8"	2"	NW	4"
1/2"	3 1/4"	NW	5 1/2"
3/4"	3 3/4"	NW	6"

2) EQUIPMENT ATTACHED TO TOP OF SURFACE OF CONCRETE SLAB
OVER METAL DECK:

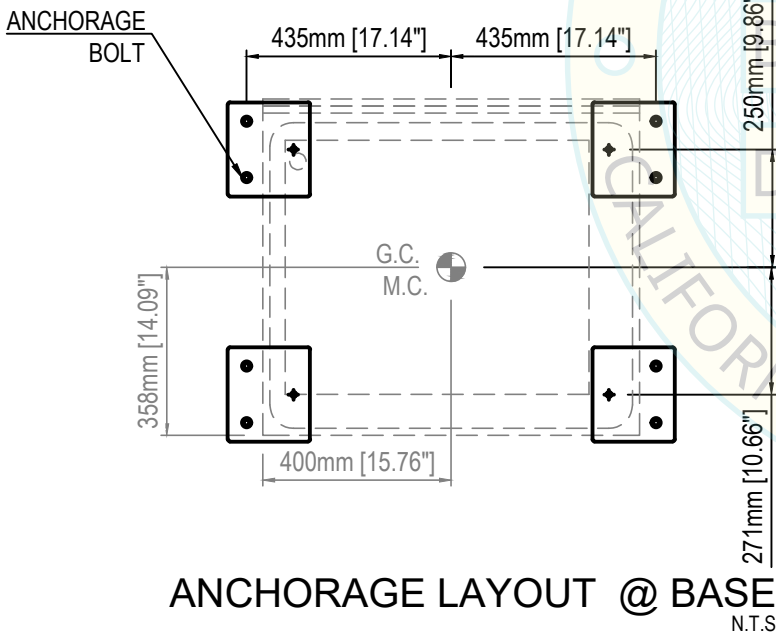
ANCHORAGE DIAMETER	BOLT DIAMETER MIN EFFECTIVE EMBEDMENT	CONCRETE TYPE MIN Fc=3000 psi	MINIMUM CONCRETE MEASURED THICKNESS ABOVE UPPER FLUTES
3/8"	2"	NW or SAND LW	4"
1/2"	3 1/4"	NW or SAND LW	5 1/2"
3/4"	3 3/4"	NW	6"



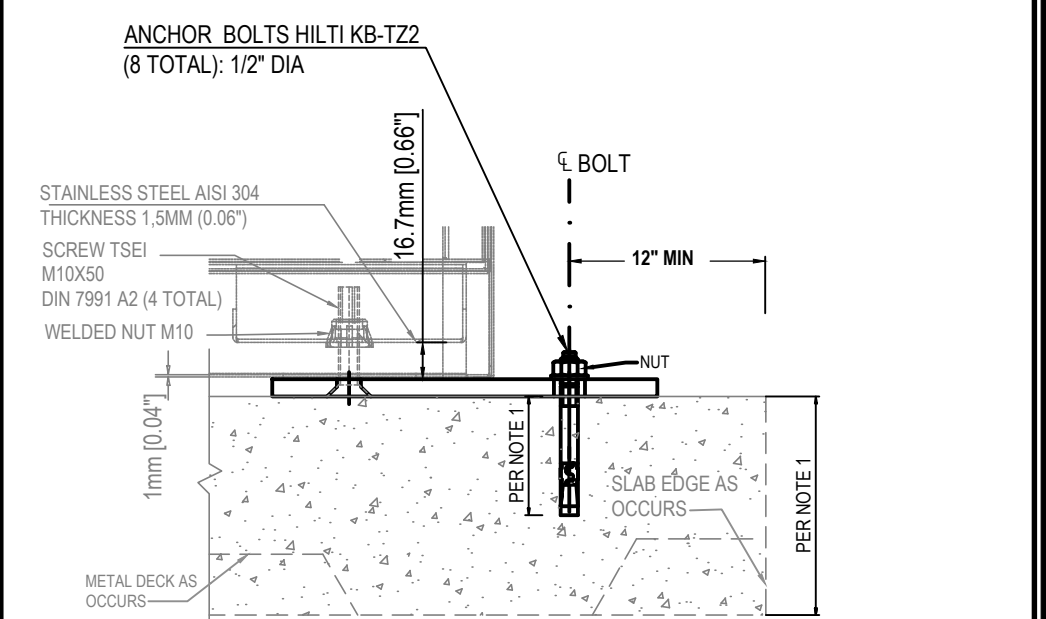
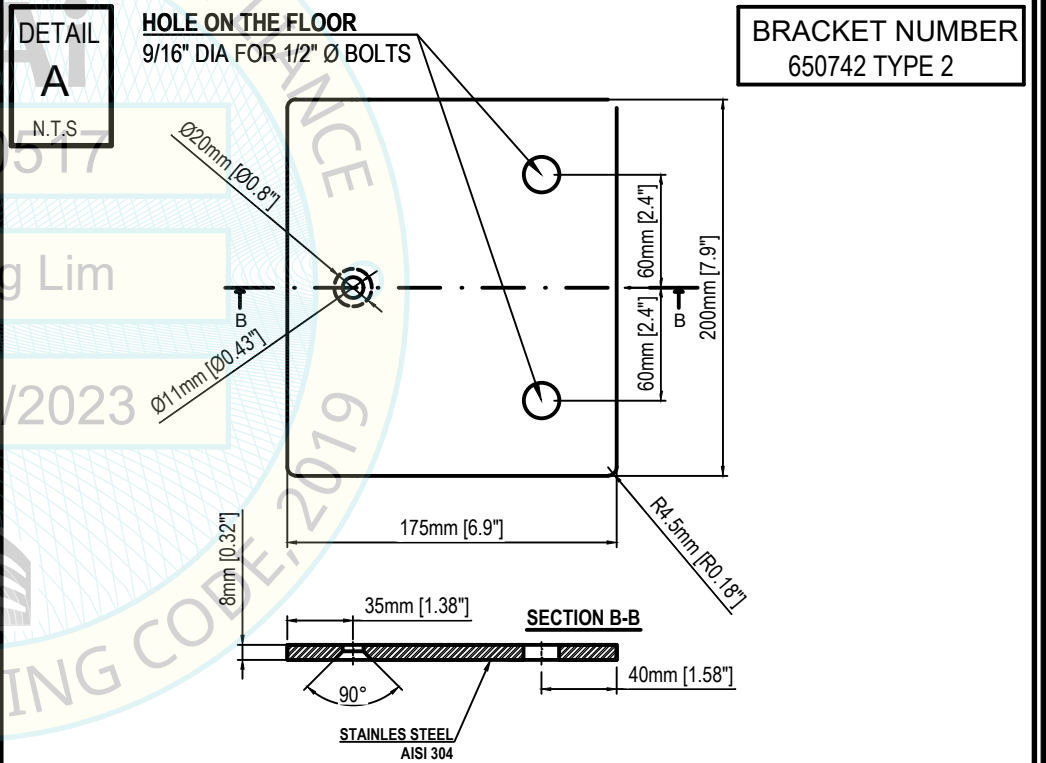
FRONT ANCHORAGE ELEVATION
N.T.S



SIDE ANCHORAGE ELEVATION
N.T.S



ANCHORAGE LAYOUT @ BASE
N.T.S



Steelco
N° US 100

EQUIPMENT LIST FOR OPM-0517-19:
DS 500 CD, DS 500 CDL, DS 500 CL, DS 610/ 1D, DS 610/2 D, DS 1000 1S, DS 1000 2S, DS 1000 3S, DS 1000, ED 100/2, ED 250/1, ED 250/2, ED 250/3, ED 250/4, ED 100/1, ED 150/1, ED 150/2, ID 300/1, ID 300/2, LC 20/1, LC 20/2, LC 80/2, LC 80/3, US 100, US 100 XL, US 900, US 1000, LC 20/1 & LC 20/2 TANK, LC 80/2 LC 80/3 Tanks

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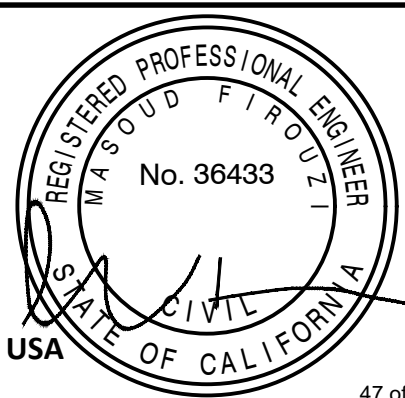
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