APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER’S CERTIFICATION (OPM)

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: [ ] New  [X] Renewal/Update

Manufacturer Information

Manufacturer: Steris
Manufacturer's Technical Representative: Lloyd Dupuis
Mailing Address: 490 boul. Armand-Paris, Quebec, QC G1C8A3
Telephone: (418) 664-1549  Email: Lloyd_Dupuis@steris.com

Product Information

Product Name: AMSCO 7053L & RELIANCE VISION SINGLE-CHAMBER WASHER/DISINFECTOR
Product Type: Healthcare Washer/Disinfector
Product Model Number: FH41-072, FH41-042, FH41-043, FH96-062, FH96-063, FH96-032, FH96-033, FH05-072, FH05-042, FH05-043, FH05-062, FH05-063, FH10-082, FH10-072, FH10-062, FH10-032, FH10-063
General Description: Both products are surgical instruments single chamber washers/disinfectors. Process is assured by high impingement re-circulation of cleaning solution and thermal disinfection.

Applicant Information

Applicant Company Name: ISAT SEISMIC BRACING
Contact Person: WILLIAM JOERGER
Mailing Address: 14848 Northam Street, La Mirada, CA 90638
Telephone: (714) 920-6066  Email: wvjoerger@isatsb.com
Title: 

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

07/06/2020  OPM-0080: Reviewed for Code Compliance by Haeseong Lim
Registered Design Professional Preparing Engineering Recommendations

Company Name: ISAT SEISMIC BRACING

Name: WILLIAM JOERGER
California License Number: S4545

Mailing Address: 14848 Northam Street, La Mirada, CA 90638

Telephone: (714) 920-6066
Email: wjoerger@isatsb.com

OSHPD Special Seismic Certification Preapproval (OSP)

☐ Special Seismic Certification is preapproved under OSP
OSP Number: __________________________

Certification Method

Testing in accordance with:
☐ ICC-ES AC156
☐ FM 1950-16

☐ Other(s) (Please Specify):

*Use of criteria other than those adopted by the California Building Standards Code, 2019 (CBSC 2019) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2019 may be used when approved by OSHPD prior to testing.

☒ Analysis
☐ Experience Data
☐ Combination of Testing, Analysis, and/or Experience Data (Please Specify):

OSHPD Approval

Date: 7/6/2020

Name: Haeseong Lim
Title: Senior Structural Engineer

Condition of Approval (if applicable): __________________________
ATTACHMENT OPM DRAWINGS
AMSCO 7053L AND RELIANCE VISION
WASHERS/DISINFECTOR

STERIS

ISAT
1020 Crews Road Suite Q
Matthews, N.C. 28105
704-841-4080

FILE NO.: CLT-0214-025 and 026

“Empowered by Experience”
OSHPD OPM-0080

DRAWING INDEX

DRAWING INDEX

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Vision Single Chamber Equipment Attachment for Slab-On-Grade p 3
Elevated Slab Notes p 4
AMSCO 7053L Equipment Attachment for Elevated Slabs p 5
Vision Single Chamber Equipment Attachment for Elevated Slabs p 6
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Attachment Notes p 8
Supplemental Steel Detail p 9
GENERAL NOTES FOR ATTACHMENT TO SLAB ON GRADE:
1. THIS OSHPD 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. SEISMIC CRITERIA USED: \( S_{D5} = 2.5 \) \( I_p = 1.5 \) \( a_p = 1.0 \) \( R_p = 1.5 \) (OTHER EQUIPMENT) \( z/h = 0.0 \) \( FpHoriz = 1.19 \) \( Wp \) FOR EQUIPMENT AT GRADE AND \( FpVertical = 0.50 \) \( Wp \).
3. SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-16 CHAPTER 19 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR \( \Omega_D = 1.5 \) (CBC 2019 SECTION 1617A.1.23) IS USED FOR CONCRETE ANCHORAGE FORCES PER ASCE 7-16 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS.
4. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
5. THIS PREAPPROVAL IS FOR CONCRETE SLAB AT GRADE OR BELOW FOR THE DEMAND LOADS SHOWN WHERE \( z/h = 0 \) AND \( S_{D5} \leq 2.5 \). REFER TO "ELEVATED SLAB LAYOUT" AND "ELEVATED SLAB NOTES" FOR OTHER CONDITIONS THAT ARE PART OF OPM-0080.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD
1. CONFIRM THE MATERIAL PROPERTIES AND THICKNESS OF THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ATTACHED MEETS THE REQUIREMENTS OF THIS OPM.
2. PROVIDE A PLAN FOR INSPECTION OF SUPPORTS AND ATTACHMENTS AND VERIFY ITS IMPLEMENTATION.
3. CONFIRM THE SPECIFIED MINIMUM CONCRETE EDGE DISTANCES ARE MAINTAINED BASED ON THE ACTUAL EQUIPMENT LOCATION. VERIFY THAT EXISTING OR NEW ANCHORS ARE AN ADEQUATE DISTANCE FROM THIS UNIT’s ATTACHMENT.
4. CHECK FOR POST-INSTALLED ANCHOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 6 \( H_{A1} = 19.5'' \).
5. VERIFY THAT THE EXISTING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND TENSION FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
6. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2019 AND WITH THE OPM-0080 DETAILS. MATERIALS AND GAGE OF THE UNIT WHERE THE ATTACHMENTS ARE MADE TO AGREE WITH THE INFORMATION SHOWN.
7. VERIFY THAT THE PROJECT SPECIFIC \( S_{D5} \) AND \( z/h \) VALUES RESULT IN SEISMIC FORCES (\( E_h \) and \( E_v \)) DO NOT EXCEED THE VALUES SHOWN IN THESE DETAILS.

<table>
<thead>
<tr>
<th>SLAB-ON-GRADE ANCHOR</th>
</tr>
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<tbody>
<tr>
<td>ANCHOR TYPE</td>
</tr>
<tr>
<td>HILTI KWIK BOLT TZ</td>
</tr>
</tbody>
</table>

OPM-0080  EQUIPMENT ATTACHMENT NOTES FOR SLAB-ON-GRADE
SEE EQUIPMENT LAYOUT FOR ATTACHMENT PLAN AND EQUIPMENT ELEVATION

OSHPD OPM-0080  DWG - 1
AMSCO 7053L INCLUDES MODEL NUMBERS FH41-072, FH41-042, FH41-043, FH96-062, FH96-003, FH96-032, FH96-033.

BASE FRAME 11 GA. ASTM 304 STAINLESS STEEL

CG ANCHORS

ex = 3.88"
ey = 0.44"

CG WEIGHT

(2 SETS OF 3) HILTI KWIK BOLT TZ (ESR-1917) 1/2" x 4" HOLE DEPTH
(3 1/4" EFFECTIVE EMBEDMENT) STAINLESS STEEL ANCHORS WITH
40 FT-LBS INSTALLATION TORQUE WITH PLATE WASHER 3/16 x 2 x 4

6" MIN. EDGE DISTANCE

TENSION

WEIGHT

SHEAR

(8) SHEET METAL SCREWS M4 SS

SCHEMATIC ATTACHMENT PLAN

EQUIPMENT ELEVATION

AMSCO 7053L EQUIPMENT ATTACHMENT LAYOUT FOR SLAB-ON-GRADE
SEE "GRADE NOTES" FOR NOTES AND "FORCES" FOR DIMENSIONS AND FORCES
VISION SINGLE CHAMBER INCLUDES

(4) HILTI KWIK BOLT TZ (ESR-1917) 1/2" x 4" HOLE DEPTH
(3 1/4" EFFECTIVE EMBEDMENT) STAINLESS STEEL ANCHORS WITH 40 FT-LBS INSTALLATION TORQUE
WITH PLATE WASHER 3/16 x 2 x 4

SHEAR

WEIGHT

FpH

FpV

TENSION

CG WT

ex = 5.0"

ay = 0.06"

CG BOLT GROUP

16.69"

12.56"

33.44"

27.60"

6" MIN. EDGE DISTANCE

FRONT

BASE FRAME
11 GA. ASTM 304 STAINLESS STEEL

(8) SHEET METAL SCREWS M4 SS

VISION SINGLE CHAMBER EQUIPMENT ATTACHMENT LAYOUT FOR SLAB-ON-GRADE
SEE "GRADE NOTES" FOR NOTES AND "FORCES" FOR DIMENSIONS AND FORCES

DRAWN BY: WVJ
DATE: 03/04/14
REVISED BY: WVJ
DATE: 07/03/20
REV NO: 5

SCALE N.T.S. PAGE VISION GD

07/06/2020 OPM-0080: Reviewed for Code Compliance by Haeseong Lim
GENERAL NOTES FOR ATTACHMENT TO ELEVATED SLABS:
1. THIS OSHPD 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. SEISMIC CRITERIA USED: $S_{D5} = 2.5$ $I_1 = 1.5$ $a_{p} = 1.0$ $R_0 = 1.5$ (OTHER EQUIPMENT) $z/h \leq 1.0$ $F_{p\text{Vert}} = 3.00$ Wp $F_{p\text{Vert}} = 0.59$ Wp.
3. SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-16 CHAPTER 19 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR $O_0 = 1.5$ (CBC 2019 SECTION 1617A.1.23) IS USED FOR CONCRETE MATERIALS AND $O_0 = 1.0$ FOR STEEL MATERIALS PER ASCE 7-16. LOADS SHOWN ARE STRENGTH DESIGN LOADS.
4. USE (4) 0.50” HOT DIPPED GALVANIZED THROUGH BOLTS TO A SUPPLEMENTAL STEEL MEMBER BELOW. DETAILS OF THE SUPPLEMENTAL STEEL AND CONNECTIONS TO STRUCTURE ARE SHOWN ON PAGE "SUPPLEMENTAL STEEL".
   a. THROUGH BOLTS ARE TO BE TORQUED BY 3/4 TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED. SNUG TIGHT CONDITION IS DEFINED AS THE THIGHTENING REQUIRED TO BRING THE CONNECTED PLIES INTO Firm CONTACT.
   b. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16") FOR BOTH THE STEEL AND CONCRETE.
   c. THROUGH BOLTS WITH STEEL-TO-STEEL CONNECTION IN TENSION DO NOT REQUIRE TESTING.
5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
6. THIS PREAPPROVAL IS FOR ELEVATED CONCRETE SLABS FOR THE DEMAND LOADS SHOWN WHERE $z/h \leq 1$ AND $S_{D5} = 2.5$.
   REFER TO "SLAB-ON-GRADE LAYOUT" AND "SLAB-ON-GRADE NOTES" FOR OTHER CONDITIONS THAT ARE PART OF OPM-0080.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD
1. CONFIRM THE MATERIAL PROPERTIES AND THICKNESS OF THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ATTACHED MEETS THE REQUIREMENTS OF THIS OPM.
2. PROVIDE A PLAN FOR INSPECTION OF SUPPORTS AND ATTACHMENTS AND VERIFY ITS IMPLEMENTATION.
3. CONFIRM THE SPECIFIED MINIMUM CONCRETE EDGE DISTANCES ARE MAINTAINED BASED ON THE ACTUAL EQUIPMENT LOCATION. VERIFY THAT EXISTING OR NEW ANCHORS ARE AN ADEQUATE DISTANCE FROM THIS UNIT’s ATTACHMENT.
4. VERIFY THAT THE EXISTING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND TENSION FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
5. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2019 AND WITH THE OPM-0080 DETAILS. MATERIALS AND GAGE OF THE UNIT WHERE THE ATTACHMENTS ARE MADE TO AGREE WITH THE INFORMATION SHOWN.
6. VERIFY THAT THE PROJECT SPECIFIC $S_{D5}$ AND $z/h$ VALUES RESULT IN SEISMIC FORCES ($E_h$ AND $E_v$) DO NOT EXCEED THE VALUES SHOWN IN THESE DETAILS.

OPM-0080  EQUIPMENT ATTACHMENT NOTES FOR ELEVATED SLABS
SEE "ELEV LAYOUT" FOR DIMENSIONS AND ATTACHMENT FORCES
AMSCO 7053L INCLUDES MODEL NUMBERS FH41-072, FH41-042, FH41-043, FH96-062, FH96-063, FH96-032, FH96-033.

SEE "SUPPLEMENTAL STEEL" DWG 9 FOR DETAILS

SOLID SLAB OR SLAB ON METAL DECK

9/16" HOLE DIA.

(4) 1/2" DIAMETER 304SS THRU BOLTS (ASTM F903) WITH WASHERS AND NUTS AND PLATE WASHER 3/16 x 2 X 4

SCHEMATIC ANCHOR PLAN

(8) SHEET METAL SCREWS M4 SS

BASE FRAME 11 GA. ASTM 304 STAINLESS STEEL

CG WEIGHT

WEIGHT

TENSION

FpH

FpV

SHEAR

9/16" HOLE DIA.

SEE "SUPPLEMENTAL STEEL" DWG 9 FOR DETAILS

SHEAR

EQUIPMENT ELEVATION

OPM-0080 AMSCO 7053L EQUIPMENT ATTACHMENT LAYOUT FOR ELEVATED SLABS

SEE "ELEV NOTES" FOR NOTES AND "FORCES" FOR DIMENSIONS AND FORCES
VISION SINGLE CHAMBER INCLUDES
MODEL NUMBERS FH05-072, FH05-042, FH05-043, FH05-062, FH05-063,

SEE "SUPPLEMENTAL STEEL"
DWG 9 FOR DETAILS
SOLID SLAB OR
SLAB ON METAL DECK
9/16" HOLE DIA.

(4) 1/2" DIAMETER 304SS THRU BOLTS
(ASTM F593) WITH WASHERS AND NUTS
AND PLATE WASHER 3/16 x 2 X 4
BASE FRAME
11 GA. ASTM 304
STAINLESS STEEL

SCHEMATIC ANCHOR PLAN

WEIGHT
FpH
FpV
SHEAR
TENSION
9/16" HOLE DIA.

SOLID SLAB OR
SLAB ON METAL DECK
See "SUPPLEMENTAL STEEL"
DWG 9 FOR DETAILS

VISION SINGLE CHAMBER EQUIPMENT ATTACHMENT LAYOUT FOR ELEVATED SLABS
SEE "ELEV NOTES" FOR NOTES AND "FORCES" FOR DIMENSIONS AND FORCES

VISION SINGLE CHAMBER EQUIPMENT ATTACHMENT LAYOUT FOR ELEVATED SLABS
SEE "ELEV NOTES" FOR NOTES AND "FORCES" FOR DIMENSIONS AND FORCES
**OSHPD OPM-0080**  
**MANUFACTURE:** STERIS  
**EQUIPMENT TYPE:** WASHER/DISINFECTOR

### Ultrasonic Cleaners at Grade or Below (FpH = 1.13 Weight)

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<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Width</th>
<th>CG Height</th>
<th>ex</th>
<th>ey</th>
<th>Weight Lbs</th>
<th>Tu Tension</th>
<th>Vu Shear</th>
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<tbody>
<tr>
<td>7053L</td>
<td>33.44&quot;</td>
<td>33.60&quot;</td>
<td>40.1&quot;</td>
<td>3.88&quot;</td>
<td>0.44&quot;</td>
<td>1331</td>
<td>1125</td>
<td>433</td>
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<td>Vision</td>
<td>33.44&quot;</td>
<td>27.6&quot;</td>
<td>29&quot;</td>
<td>5.0&quot;</td>
<td>0.06&quot;</td>
<td>1187</td>
<td>925</td>
<td>595</td>
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### Ultrasonic Cleaners at Elevated Slabs (FpH = 3.00 Weight)

<table>
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<th>Model</th>
<th>Length</th>
<th>Width</th>
<th>CG Height</th>
<th>ex</th>
<th>ey</th>
<th>Weight Lbs</th>
<th>Tu Tension</th>
<th>Vu Shear</th>
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<tbody>
<tr>
<td>7053L</td>
<td>33.44&quot;</td>
<td>33.60&quot;</td>
<td>40.1&quot;</td>
<td>1.31&quot;</td>
<td>0.44&quot;</td>
<td>1331</td>
<td>2082</td>
<td>1576</td>
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<tr>
<td>Vision</td>
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<td>27.6&quot;</td>
<td>29&quot;</td>
<td>5.0&quot;</td>
<td>0.06&quot;</td>
<td>1187</td>
<td>1703</td>
<td>1586</td>
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**AMSCO 7053L** INCLUDES MODEL NUMBERS FH41-072, FH41-042, FH41-043, FH96-062, FH96-063, FH96-032, FH96-033.

**VISION SINGLE CHAMBER** INCLUDES MODEL NUMBERS FH05-072, FH05-042, FH05-043, FH05-062, FH05-063, FH10-082, FH10-072, FH10-062, FH10-032, FH10-063.

WEIGHT AND GEOMETRIC PROPERTIES DO NOT VARY WITH MODEL NUMBERS.
ATTACHMENT GENERAL NOTES:
1. THIS OSHPD 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. SEE "SLAB-ON-GRADE NOTES" AND "ELEVATED SLAB NOTES" FOR SEISMIC CRITERIA USED.

SLAB-ON-GRADE NOTES:
3. HILTI KWIK BOLT TZ (CC-ES-STR-1917 FOR MAY 2019) 0.50" x 4" HOLE DEPTH (3.25" EFFECTIVE EMBEDMENT) STAINLESS STEEL ANCHORS IN A CONCRETE SLAB WITH A MINIMUM THICKNESS OF 6 INCHES, 40 FT-LBS INSTALLATION TORQUE. MINIMUM EDGE DISTANCE AND SPACING = 10". USE (5) ANCHORS FOR AMSCO 7053L AND (4) ANCHORS FOR VISION SINGLE CHAMBER.
4. CONCRETE USED FOR DESIGN IS A NORMAL WEIGHT SLAB WITH A MINIMUM Fc = 3000 PSI AT 28 DAYS AND A MINIMUM THICKNESS OF 6 INCHES.

ELEVATED SLAB NOTES:
6. USE (4) 0.50" ASTM A193 BOLTS OR ASTM F593 ALL THREAD ROD 304 STAINLESS STEEL THROUGH BOLTS TO SUPPLEMENTAL STEEL MEMBER BELOW. DESIGN OF THE SUPPLEMENTAL STRUCTURE AND CONNECTIONS TO THE STRUCTURE ARE SHOWN ON PAGE "SUPPLEMENTAL STEEL".
   a. THROUGH BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED (UNLESS OTHERWISE NOTED). SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
   b. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLTS SIZE (HOLE SIZE = BOLT SIZE + 1/16") FOR BOTH STEEL AND CONCRETE.
   c. THROUGH BOLTS WITH STEEL-TO-STEEL CONNECTION IN TENSION DO NOT REQUIRE TESTING.
   d. USE ONE NUT AND WASHER ON EACH END. WHERE BOLT OCCURS IN THE OPEN AREA OF THE METAL DECK PROVIDE AN ADDITIONAL NUT AND WASHER ON TOP OF THE SUPPLEMENTAL STEEL MEMBER, SEE PAGE "SUPPLEMENTAL STEEL".
1/2" BOLT WITH (3) WASHERS AND NUTS
4 1/2" MIN.
3 1/4" NWC OR SAND LWC CONCRETE f’c = 3000 psi
3" MAX.
20 GA. MIN.
STEEL DECK
1/2" BOLT WITH (3) WASHERS AND NUTS
9/16" HOLE IN CONC.
1/2" BOLT WITH (3) WASHERS AND NUTS
9/16" HOLE IN CONC.
L 3x3x1/4 x 16" ASTM A36 WITH 9/16" HOLES
L 3x3x1/4 x 16" ASTM A36 WITH 9/16" HOLES
1/2" BOLT WITH (2) WASHERS AND NUTS
PLATE WASHER 3/16 x 2 x 4 ASTM 304 STAINLESS STEEL
9/16" HOLE IN CONC.
(2) HITLI KWIK BOLT TZ (ESR-1917) 1/2" x 2 5/8" HOLE DEPTH (2" EFFECTIVE EMBEDMENT) ANCHORS WITH 40 FT-LBS INSTALLATION TORQUE *
L 3x3x1/4 x 28" ASTM A36 WITH 9/16" HOLES
1/2" BOLT WITH (2) WASHERS AND NUTS
PLATE WASHER 3/16 x 2 x 4 ASTM 304 STAINLESS STEEL
9/16" HOLE IN CONC.
(2) HITLI KWIK BOLT TZ (ESR-1917) 1/2" x 2 5/8" HOLE DEPTH (2" EFFECTIVE EMBEDMENT) ANCHORS AT 10" SPACING WITH 40 FT-LBS INSTALLATION TORQUE *

DETAIL FOR ATTACHMENT BOLT BETWEEN FLUTES

DETAIL FOR ATTACHMENT BOLT AT THE SIDE OF THE FLUTE OR AT THE BOTTOM FLUTE

DETAIL FOR ATTACHMENT BOLT AT SOLID CONCRETE SLABS

OPM-0080 SUPPLEMENTAL STEEL DETAIL AT ELEVATED SLABS

* TESTING: SEE SLAB ON GRADE NOTES, NOTE NO. 5 ON PAGE ‘ATTACHMENT NOTES’