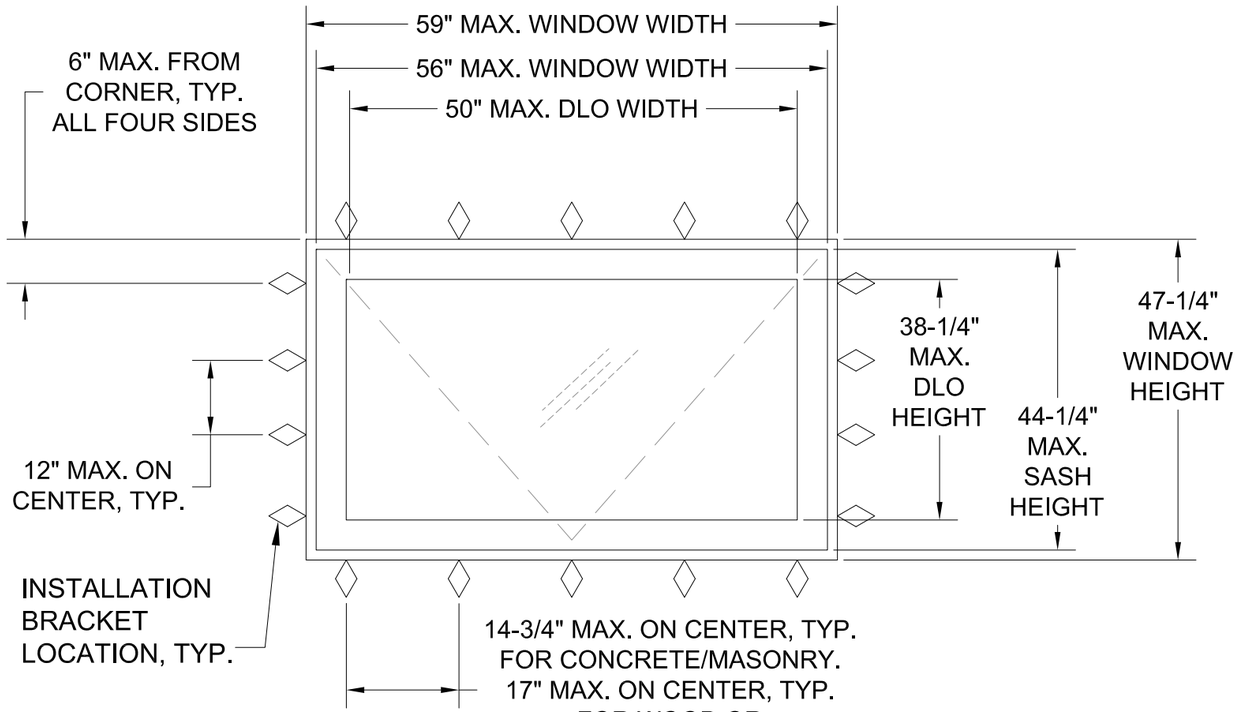
GENERAL NOTES

1. THE PRODUCT SHOWN HEREIN CONSTRUCTED FROM GEALAN EXTRUDED uPVC FRAMES HAS BEEN TESTED TO TAS201/202/203-94, AAMA/WDMA/CSA 101/I.S.2/A440, AND ASTM E1886/E1996, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 8TH EDITION (2023), INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
2. WITH GLASS TYPE 1 AS INDICATED IN THIS DRAWING, THIS PRODUCT IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS. WITH GLASS TYPE 2 AS INDICATED IN THIS DRAWING, THIS PRODUCT IS SMALL MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) WHEN INSTALLED ABOVE 30 FT OF GRADE IN WINDBORNE DEBRIS REGIONS.
3. THE DESIGN PRESSURES INDICATED IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 GLASS TABLES, AND TESTED WATER, STRUCTURAL, AND CYCLIC PRESSURES.
4. THIS DOCUMENT ADDRESSES PRODUCT ANCHORAGE TO ACHIEVE THE INDICATED DESIGN PRESSURES AT THE INDICATED SIZES, IN THE CONFIGURATION SHOWN IN THE ELEVATIONS. INSTALL PRODUCTS WITH MAXIMUM SHIM GAP, MINIMUM EDGE DISTANCE AND EMBEDMENT, AND WITH FASTENER TYPE AS SHOWN IN THE DETAILS AND AS INDICATED IN TABLE 1. FOR FULL PRODUCT CONSTRUCTION DETAILS SEE MOLIMO TEST REPORTS 12196.01/02/03/04/05-106-13.
5. APPROVED GLAZING IS AS INDICATED IN THIS DRAWING.
6. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
7. THE OPENING SUBSTRATE MATERIALS (FRAMING, MASONRY, BUCKS) AND ATTACHMENT OF BUCKS TO THE SUBSTRATE ARE BY OTHERS AND SHALL BE VERIFIED BY THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. WITH MASONRY OPENINGS, WOOD BUCKS ARE OPTIONAL.
8. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THIS PRODUCT.
9. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.
10. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.
11. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE NOT ADDRESSED BY THIS DOCUMENT.
12. FOR ADDITIONAL REQUIREMENTS SEE GENERAL ANCHOR NOTES, SHEET 3.

SUPERA INSWING HOPPER WINDOW, IMPACT



TYP. ELEVATION
SEE DETAILS SHEET 2

DESIGN PRESSURE RATING	IMPACT RATING	GLAZING REQUIRED (SEE SHEET 2)
+70/-70 PSF	LARGE MISSILE	GLASS TYPE 1
+70/-70 PSF	SMALL MISSILE	GLASS TYPE 2

Lucas Turner
2024.01.31
15:57:14
-06'00'

INTUS WINDOWS
2720 Prosperity Ave.
Suite 400-1
Fairfax, VA 22031
Ph. (888) 380-9940

SHEET DESCRIPTION: NOTES, ELEVATIONS, DPs	DATE DRAWN: 8/24/2023
SCALE: NTS	REV: 0
DRAWING: FPA-SUPERA-HOP	SHEET: 1 OF 4

LUCAS A. TURNER LICENSE No. 58201 STATE OF FLORIDA PROFESSIONAL ENGINEER

1/24/2024

Lucas A. Turner, P.E.
FL PE #58201
Turner Engineering & Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
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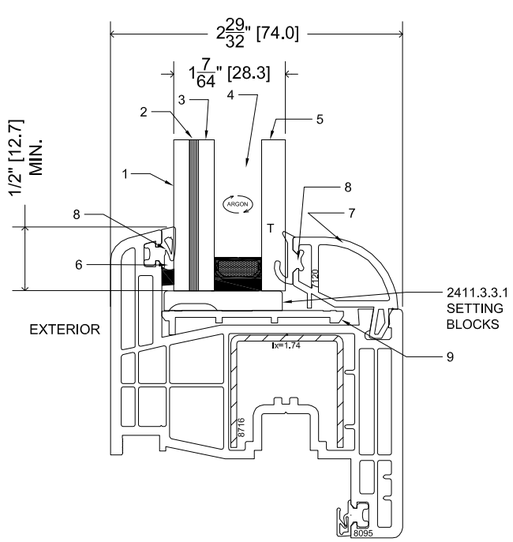
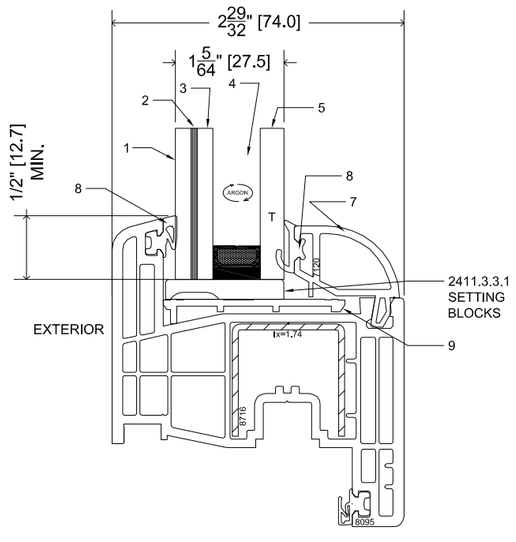
SUPERA INSWING HOPPER WINDOW, IMPACT

GLASS TYPE 1
LARGE MISSILE IMPACT



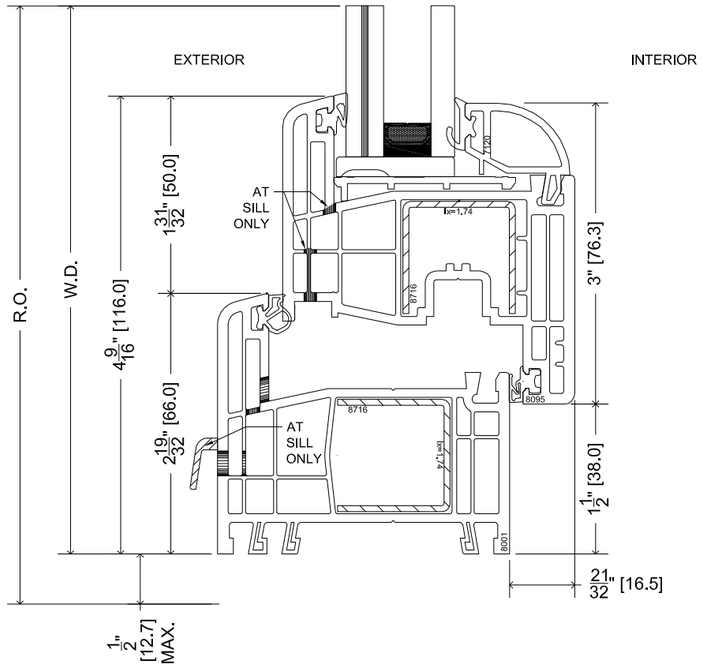
1- Glass Pane 0.157" (4mm) Annealed
2- 0.090" (2.28mm) Trosifoil XT PVB
3- Glass Pane 0.157" (4mm) Annealed
4- 90% ARGON Space 0.472" (12mm) Swissspacer Advance Warm Edge
5- Glass Pane 0.236" (6mm), Fully Tempered
6- Tremco SG301 Sealant
7- Glazing Bead 7120
8- Flexible uPVC gasket
9- Plastic shim

GLASS TYPE 2
SMALL MISSILE IMPACT



1- Glass Pane 0.157" (4mm) Annealed
2- 0.060" (1.52mm) Trosifol PVB
3- Glass Pane 0.157" (4mm) Annealed
4- 90% ARGON Space 0.472" (12mm) Swissspacer Advance Warm Edge
5- Glass Pane 0.236" (6mm), Fully Tempered
6- Not used.
7- Glazing Bead 7120
8- Flexible uPVC gasket
9- Plastic shim

TYPICAL GLAZING DETAILS



TYPICAL SECTION DETAIL HEAD/SILL/JAMB

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SHEET DESCRIPTION: GLAZING, SECTION DETAILS	DATE DRAWN: 8/24/2023
SCALE: NTS	REV: 0
DRAWING: FPA-SUPERA-HOP	SHEET: 2 OF 4

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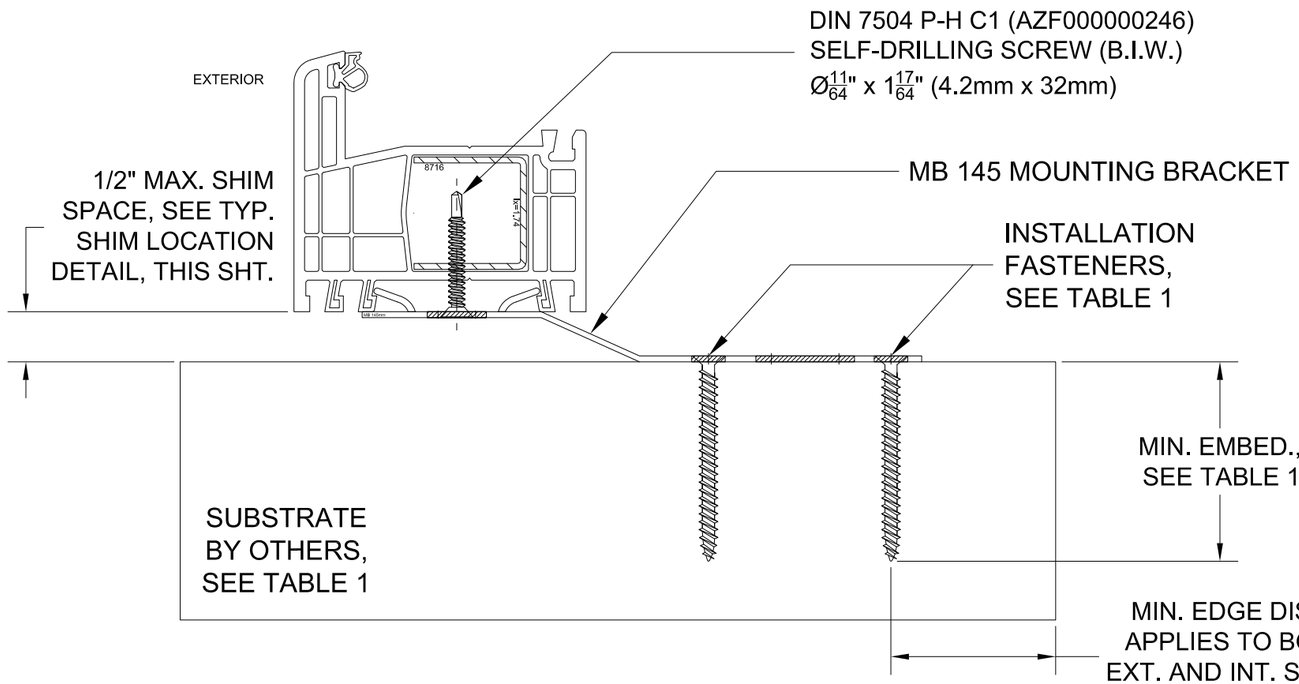
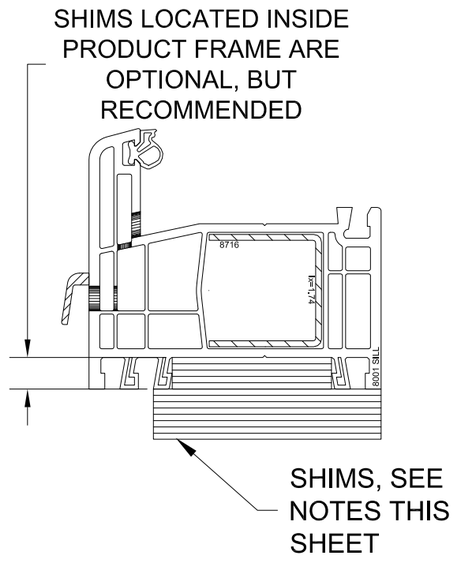
SUPERA INSWING HOPPER WINDOW, IMPACT



TYPICAL BRACKET INSTALLATION HEAD / SILL / JAMB



TYP. SHIM LOCATION

LOCATE 6" FROM CORNERS AND 20" MAX. ON CENTER THEREAFTER, AT SILL AND JAMBS

GENERAL ANCHOR NOTES:

1. INSTALL ONE ANCHOR BRACKET AS INDICATED IN DETAILS ON THIS SHEET AT EACH LOCATION SHOWN IN THE ELEVATION ON SHEET 1. INSTALL ANCHOR BRACKET TO PRODUCT FRAME WITH ONE SELF-DRILLING SCREW AS INDICATED, AND INSTALL ANCHOR BRACKET TO OPENING SUBSTRATE USING TWO INSTALLATION FASTENERS IN ACCORDANCE WITH TABLE 1.
2. INSTALL SHIMS AS INDICATED THIS SHEET, AT 6" FROM CORNERS AND 20" MAX. ON CENTER THEREAFTER AT JAMBS AND SILL.
3. SHIMS SHALL BE LOAD-BEARING ABS PLASTIC CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS. FOR ATTACHMENT TO METAL SUBSTRATES ENSURE FULL THREAD ENGAGEMENT THROUGH METAL WALL WITH MIN. 3 THREADS BEYOND.
5. FOR MASONRY WITH WOOD BUCKS LESS THAN 1-1/2" THICK, EMBEDMENT SHALL BE BEYOND WOOD BUCKS AND INTO MASONRY. WOOD BUCKS ARE OPTIONAL WITH MASONRY INSTALLATIONS WHERE MASONRY EDGE DISTANCE CONDITIONS ARE MET WITH NO BUCKS. WOOD BUCKS 1-1/2" THICK OR GREATER SHALL HAVE EMBEDMENT INTO THE WOOD BUCKS.
6. ENSURE 1-1/2" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS.

TABLE 1: MOUNTING BRACKET INSTALLATION ANCHOR REQUIREMENTS TABLE

SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN)	3/16" ITW TAPCON	1"	3"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	3"
CONCRETE (3.05 KSI MIN.)	3/16" DEWALT ULTRACON+	1-3/4"	1"
GROUT-FILLED CMU (ASTM C90)	3/16" DEWALT ULTRACON+	1-3/4"	1"
2X MIN. SOUTHERN PINE WOOD (G=0.55)	#10 GRADE 5 WOOD SCREW	1-3/8"	1"
16 GAUGE (0.060") MIN. STEEL STUD, 33KSI YIELD MIN., OR 1/8" ALUM. 6063-T5 MIN.	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL	1/2"

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SHEET DESCRIPTION: INSTALLATION	DATE DRAWN: 8/24/2023
SCALE: NTS	REV: 0
DRAWING: FPA-SUPERA-HOP	SHEET: 3 OF 4

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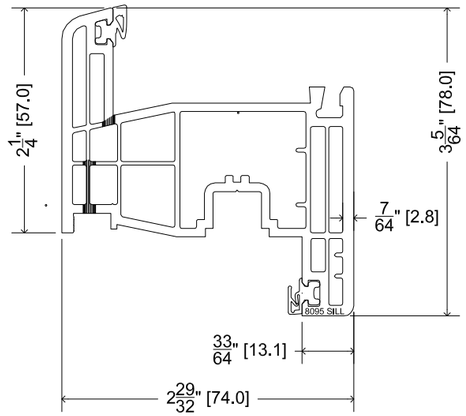
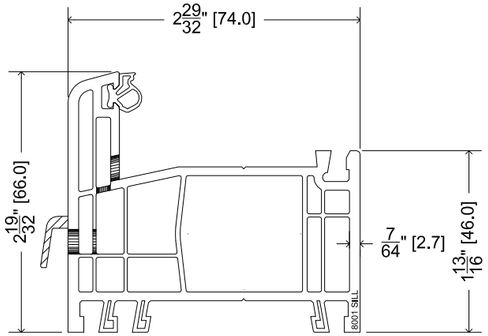
BILL OF MATERIALS

PART #	DESCRIPTION	SOURCE	MATERIAL
8095 SILL	SASH SILL	GEALAN	uPVC
8095	SASH HEAD/JAMB	GEALAN	uPVC
8001 SILL	FRAME SILL	GEALAN	uPVC
8001	FRAME HEAD/JAMB	GEALAN	uPVC
7120	GLAZING BEAD	GEALAN	uPVC
8716	REINFORCEMENT	GEALAN	GALV. STEEL
MB 145	MOUNTING BRACKET	GEALAN	GALV. STEEL

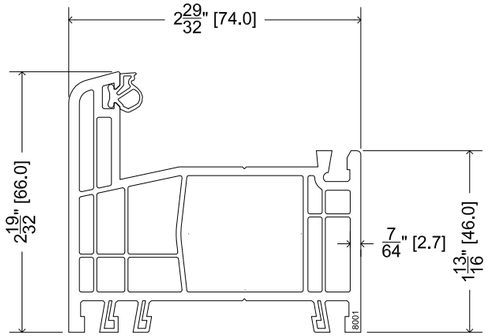
SUPERA INSWING HOPPER WINDOW, IMPACT



8095 SILL



8001 SILL



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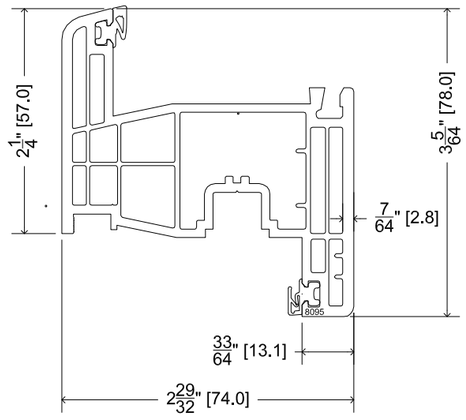

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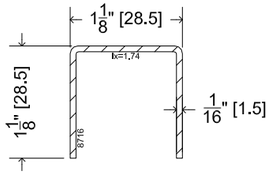

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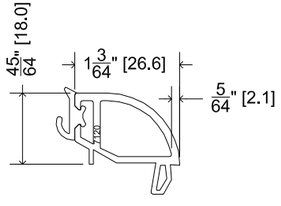

7120

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Suite 400-1
Fairfax, VA 22031
Ph. (888) 380-9940

SHEET DESCRIPTION: BOM, PART DWGS	DATE DRAWN: 8/24/2023
SCALE: NTS	REV: 0
DRAWING: FPA-SUPERA-HOP	SHEET: 4 OF 4

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