

# KNOTWOOD - GENERIC PEDESTERIAN GATE SHOP DRAWINGS

**PROPERTY MANAGER:**  
**PER ARCHITECT / ENGINEER**

**DESIGN ENGINEER:**  
**PVE, LLC**  
 2000 GEORGETOWN DRIVE, SUITE 101  
 SEWICKLEY, PA 15143

DRAWING LIST		LATEST REVISION	DATE
T-100	- TITLE SHEET		
G-100	- GENERAL NOTES		
A-100	- SMALL GATE PLAN & ELEVATIONS		
A-101	- TYPICAL SMALL GATE DETAILS		
A-200	- LARGE GATE PLAN & ELEVATIONS		
A-201	- TYPICAL LARGE GATE DETAILS		

PREPARED FOR:  
  
**KNOTWOOD™**  
 Stunning Aluminum  
 5555 W Roosevelt St  
 Phoenix, AZ 85043

ISSUED FOR:  
 ISSUED DATE: 05/15/2024

PLAN REVISIONS		
NO.	DATE	DESCRIPTION

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PROJECT NAME:  
**KNOTWOOD - GENERIC PEDESTRIAN  
 GATE SHOP DRAWINGS**

PROJECT LOCATION:  
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DRAWING NAME:  
**TITLE SHEET**

SEAL & SIGNATURE	PROJECT NO:	202110314
	DRAWN BY:	
	CHECKED BY:	
	DRAWING NO:	<b>T-100</b>
	PAGE NO:	

**ABBREVIATIONS:**

ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ACIP	AUGERED CAST-IN-PLACE PILES
ADD'L	ADDITIONAL
AE	AIR-ENTRAINED
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATELY
AR	ANCHOR ROD
ARCH	ARCHITECTURAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWS	AMERICAN WELDING SOCIETY
B	BOTTOM
B/	BOTTOM OF
BH	BULKHEAD
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR

**ABBREVIATIONS (CONT.):**

CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
db	REINFORCING BAR DIAMETER
DIA	DIAMETER
DN	DOWN
DTLS	DETAILS
DWG	DRAWING
DWLS	DOWELS
E	EXISTING
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT

**ABBREVIATIONS (CONT.):**

EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
FT	FOOT/FEET
FTG	FOOTING
FE	FIRE ESCAPE
GALV	GALVANIZE
GL	GRIDLINE
H	HIGH
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HIGH STRENGTH
HSA	HEADED SHEAR ANCHOR
IN	INCH(ES)
IP	INFLECTION POINT
I.F.	INSIDE FACE
JT	JOINT
K	KIPS (1000 POUNDS)

**ABBREVIATIONS (CONT.):**

KN	KILONEWTON
kPa	KILOPASCAL
L	LITER
L	LENGTH
LBS	POUNDS
Ld	REINF BAR DEVELOPMENT LENGTH
LLH	LONG LEG HORIZ
LLV	LONG LEG VERT
LP	LOW POINT
LTWT	LIGHT WEIGHT
m	METER
mm	MILLIMETER
MAX	MAXIMUM
MANUF	MANUFACTURER
MECH	MECHANICAL
MEP	MECH/ELECT/PLUMBING
MIN	MINIMUM
MPa	MEGAPASCAL
MTL	METAL
N	NEWTON
NLWT	NORMAL WEIGHT

**ABBREVIATIONS (CONT.):**

(N)	NEW
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
O.F.	OUTER FACE
PJP	PARTIAL JOINT PENETRATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSION
R	RISER
REF	REFERENCE
REINF	REINFORCING OR REINFORCEMENT
REQ'D	REQUIRED
SCHED	SCHEDULE
SC	SLIP CRITICAL
SDI	STEEL DECK INSTITUTE
SDL	SUPERIMPOSED DEAD LOAD
SEC	SECONDS
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SLV	SHORT LED (DIM) VERTICAL

**ABBREVIATIONS (CONT.):**

SOG	SLAB-ON-GRADE
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
T	TOP OF TREAD
T/	TOP OF
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
THK	THICK
TMS	THE MASONRY SOCIETY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/C	WATER-CEMENTITIOUS MATERIAL RATIO
W	WIDTH
WD	WOOD
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

**GENERAL NOTES:**

- DRAWING REFERENCE:**  
N/A
- CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO INSTALLATION. DO NOT SCALE OFF DRAWINGS.
- ALL MEMBERS SHALL BE SAW CUT IN FIELD AS REQUIRED.
- NO SPLICES SHALL BE PERMITTED UNLESS INDICATED OTHERWISE ON DRAWINGS.
- TOUCH UP ALL SCRATCHES WITH DEALER PROVIDED COLORS TO MATCH.
- WELDING IS NOT PERMITTED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- THE CONTENTS SHOW THE APPLICATION OF ALUMINUM KNOTWOOD FRAMING COMPONENTS ONLY. THE INSTALLING CONTRACTOR IS TO REFER TO THE PROJECT DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
- DIMENSIONS HEREIN ARE FOR ENGINEERING PURPOSES ONLY AND MUST BE REVIEWED FOR THE PURPOSE OF APPROVAL. ALL CONDITIONS ARE SUBJECT TO APPROVAL AND TO FIELD VERIFICATION PRIOR TO FABRICATION OR INSTALLATION.
- BEFORE ORDERING, FABRICATING OR ERECTING ANY MATERIAL, MAKE ANY NECESSARY SURVEYS AND MEASUREMENTS TO VERIFY THAT IN PLACE WORK HAS BEEN BUILT ACCORDING TO THE CONTRACT DOCUMENTS AND ARE WITHIN ACCEPTABLE TOLERANCES. THIS INCLUDES THE ORIGINAL BUILDINGS AND ALL ADDITIONS THERETO. NOTIFY THE A/E AND OWNER'S REPRESENTATIVES OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- TEMPORARY BRACING OF THE SYSTEM AND SAFETY DURING CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY BRACING OF THE SYSTEM SHALL REMAIN IN PLACE UNTIL THE SYSTEM IS TOTALLY IN PLACE. CONTRACTOR SHALL COORDINATE LOCATIONS OF TEMPORARY BRACING WITH OTHER CONTRACTORS. REFER TO DRAWINGS FOR ADDITIONAL CRITERIA.
- THIS SUBMITTAL IS SUBJECT TO THE REVIEW AND APPROVAL OF THE PROJECT ARCHITECT/ENGINEER OF RECORD PRIOR TO INSTALLATION.

**BUILDING LOADS:**

- SUPERIMPOSED DEAD LOAD AND LIVE LOADS
  - DEAD LOAD
    - KESGF10050                      1.83 PLF
    - KESGF6640                      0.82 PLF
    - KES15016                        0.95 PLF
    - KES10016                        0.60 PLF
  - LIVE LOADS
    - DISTRIBUTED LOAD            5 PSF
    - FRAME CONCENTRATED LOAD    200 LBF
- SNOW LOADS
  - N/A - SNOW LOADS NEGLECTED
- WIND
  - SEE LOAD TABLES FOR MAX WIND PRESSURES
- SEISMIC
  - N/A - SEISMIC LOADS NEGLECTED

**CODES AND STANDARDS:**

- THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, APPLY TO THE DESIGN AND CONSTRUCTION OF THIS PROJECT WITH LATEST EDITION PER GOVERNING BUILDING CODE TO BE USED:
  - ASCE 7-16, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
  - IBC 2018, "INTERNATIONAL BUILDING CODE"
  - AA ADM-2015 "ALUMINUM DESIGN MANUAL"
  - ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
  - 7TH EDITION - 2020 FLORIDA BUILDING CODE

**ALUMINUM NOTES:**

- ALL STRUCTURAL ALUMINUM COMPONENTS SHALL BE FABRICATED AND ERECTED ACCORDING TO THE GOVERNING BUILDING CODE AND ADM-2015.
- MATERIAL NOTES:**  
ALL SHAPES SHALL BE ONE OF THE FOLLOWING ALUMINUM ALLOYS AND TEMPERS:  

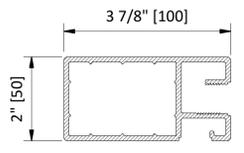
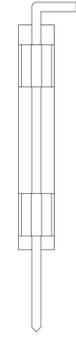
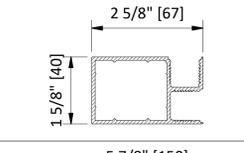
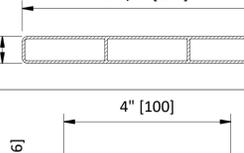
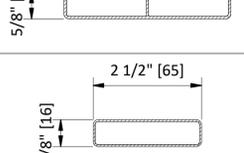
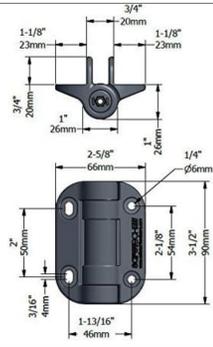
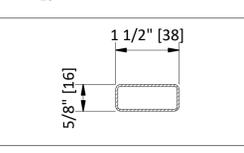
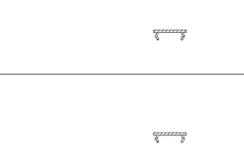
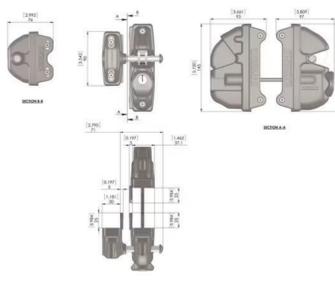
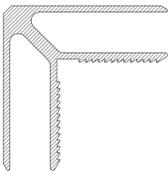
6061-T6	6063-T6	6063-T5
F <sub>y</sub> : 35 KSI	F <sub>y</sub> : 25 KSI	F <sub>y</sub> : 16 KSI
F <sub>u</sub> : 38 KSI	F <sub>u</sub> : 30 KSI	F <sub>u</sub> : 22 KSI
E: 10x10 <sup>3</sup> KSI	E: 10x10 <sup>3</sup> KSI	E: 10x10 <sup>3</sup> KSI
- SCREWS:**  
SELF-TAPPING METAL SCREWS (AS NOTED) - #10 MINIMUM GALVANIZED UNLESS NOTED OTHERWISE ALUMINUM WHERE NOTED AT HIGH/SALT EXPOSURE
- WHERE ALUMINUM IS IN CONTACT WITH OTHER METALS EXCEPT 300 SERIES STAINLESS TELL, ZINC OR CADMIUM AND THE FAYING SURFACES ARE EXPOSED TO MOISTURE, THE OTHER METALS SHALL BE PAINTED OR COATED WITH ZINC, CADMIUM, OR ALUMINUM.
- UNCOATED ALUMINUM SHALL NOT BE EXPOSED TO MOISTURE OR RUNOFF THAT HAS COME IN CONTACT WITH OTHER UNCOATED METALS EXCEPT 300 SERIES STAINLESS, ZINC, OR CADMIUM.
- ALUMINUM SURFACES TO BE PLACED IN CONTACT WITH WOOD, FIBERBOARD, OR OTHER POROUS MATERIAL THAT ABSORBS WATER SHALL BE PAINTED.
- ALUMINUM SURFACES SHALL BE PAINTED IF THEY ARE TO BE PLACED IN CONTACT WITH CONCRETE OR MASONRY UNLESS THE CONCRETE OR MASONRY REMAINS DRY AFTER CURING AND NO CORROSIVE ADDITIVES SUCH AS CHLORIDES ARE USED.
- ALUMINUM SHALL NOT BE EMBEDDED IN CONCRETE WITH CORROSIVE ADDITIVES SUCH AS CHLORIDES IF THE ALUMINUM IS ELECTRICALLY CONNECTED TO STEEL. ALUMINUM EMBEDDED IN CONCRETE SHALL BE WRAPPED WITH 10 MIL PIPE WRAP OR PLASTIC TAPE. WRAP MUST PROTECT ALL ALUMINUM SURFACES FROM EXPOSURE TO CONCRETE.
- AS AN ALTERNATIVE TO THE PREVIOUS REQUIREMENTS FOR ALUMINUM IN CONTACT WITH OTHER MATERIALS, ALUMINUM SHALL BE SEPARATED FROM THE MATERIALS OF THIS SECTION BY A NONPOROUS ISOLATOR COMPATIBLE WITH THE ALUMINUM AND THE DISSIMILAR MATERIAL.
- STEEL FASTENERS WITH A MINIMUM TENSILE ULTIMATE STRENGTH GREATER THAN 120 KSI IN THE LOAD BEARING PORTION OF THE SHANK SHALL NOT BE USED IN CONTACT WITH ALUMINUM. ALL FASTENERS SHALL BE LOCATED AT A SPACING THAT CONFORMS TO AISC STANDARD GAGE AND PITCH.
- BOLT HOLES SHALL BE DRILLED THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16" (U.O.N.).
- PREDRILL ALL HOLES FOR MATERIAL THICKER THAN 3/16".
- NOMINAL DIAMETER OF UNTHREADED HOLES FOR SCREWS SHALL NOT EXCEED THE NOMINAL DIAMETER OF THE SCREWS BY MORE THAN 1/16".
- THE SPACING BETWEEN SCREW CENTERS SHALL NOT BE LESS THAN 2.5 TIMES THE NOMINAL DIAMETER OF THE SCREWS.
- THE DISTANCE FROM THE EDGE OF A PART TO THE CENTER OF THE SCREWS SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL DIAMETER OF THE SCREW.
- WASHERS SHALL HAVE A NOMINAL DIAMETER NOT LESS THAN 5/16" AND SHALL HAVE A NOMINAL THICKNESS NOT LESS THAN 0.050".

**TYPICAL SCREW FASTENER LEGEND:**

NOTE: SCREWS SHOWN BELOW ARE TYPICAL EXAMPLES AND ALL MAY NOT BE USED IN PROJECT. CONTRACTOR MAY ELECT TO USE OTHER TYPES. SCREW MATERIAL PER THE GENERAL NOTES AND MINIMUM SCREW DIAMETER PER THE DETAILS MUST BE MAINTAINED. DRILL POINT, HEAD STYLE, AND THREAD COUNT PER INCH SHALL BE SELECTED BY THE CONTRACTOR BASED ON THE APPLICATION.

#10-16X5/8" BLAZER LO PROFILE PANCAKE HEAD SELF DRILLING SCREW (2/2 QUADREX DRIVE) (METAL TO METAL) MANUF. PART NO. CSSD5-#10X5/8"-PC-QX-F		TRIANGLE FASTENER 1-800-486-1832
#12-11X1" GP SELF DRILLING SCREW (2/2 QUADREX DRIVE) (THIN METAL) MANUF. PART NO. 12100SPCGCSTS		TRIANGLE FASTENER 1-800-486-1832

**ENLARGED PART DETAILS (DIMENSIONS IN [ ] ARE MM):**

KESGF10050		SURFACE CANE BOLT W/ IN-GROUND RECEIVER	
KESGF6640			
KES15016			
KES10016		HEAVY DUTY SAFETECH HINGES	
KES6516			
KES3816			
KESINFS			
KASPO8 KASP16 KSAP24		HEAVY DUTY SAFETECH LATCHES	
KAGCSGF5 KAGCSGFL			

PREPARED FOR:



ISSUED FOR:

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**PLAN REVISIONS**

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DRAWING NAME:

GENERAL NOTES

SEAL & SIGNATURE

PROJECT NO: 202110314

DRAWN BY:

CHECKED BY:

DRAWING NO:

G-100

PAGE NO:

1. SMALL GATE FRAME SHOWN LIMITED TO LOCATIONS WITH MAX ULTIMATE WIND PRESSURES OF 65 PSF. ANY LOCATIONS WITH HIGHER WIND PRESSURES SHALL BE EVALUATED BY ARCH/EOR.

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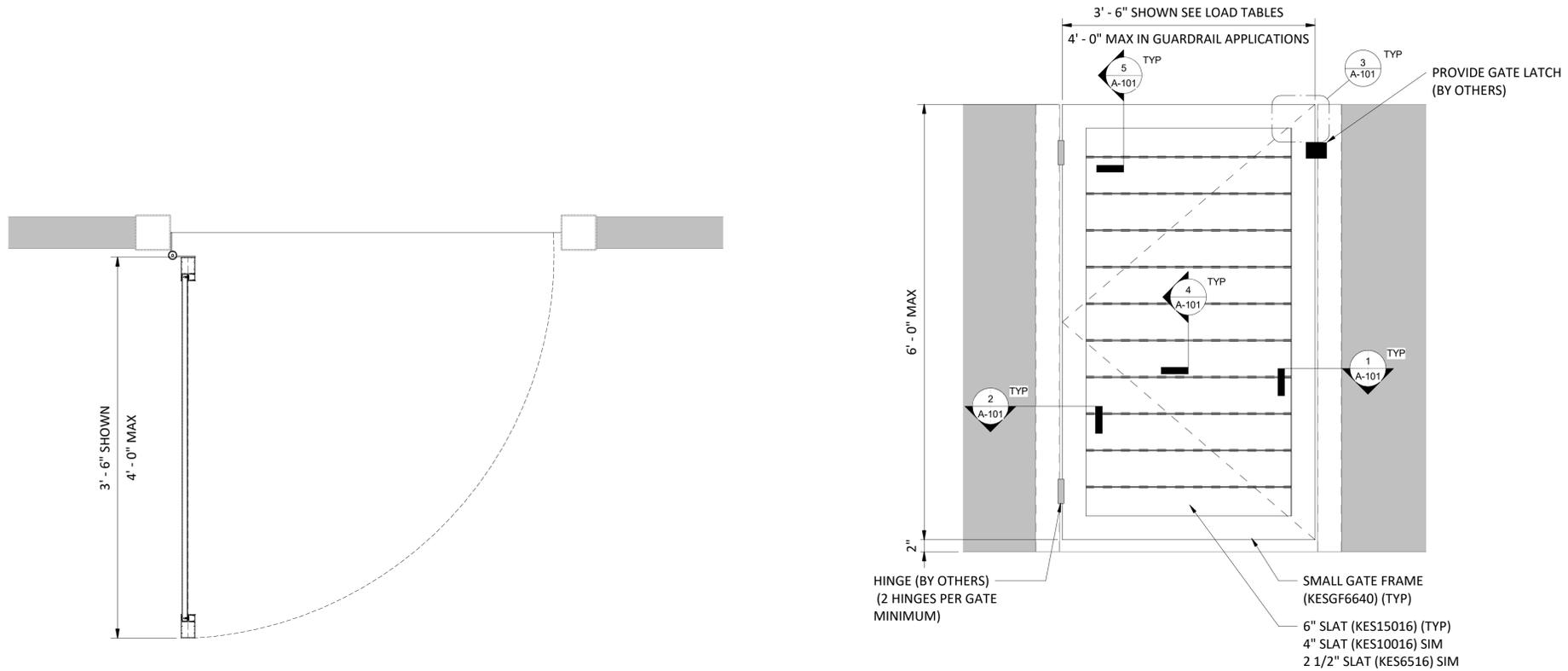
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**KNOTWOOD - GENERIC PEDESTRIAN GATE SHOP DRAWINGS**

PROJECT LOCATION:

DRAWING NAME:  
**SMALL GATE PLAN & ELEVATIONS**

SEAL & SIGNATURE	PROJECT NO:	202110314
	DRAWN BY:	
	CHECKED BY:	
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PAGE NO:		



① TYPICAL SWING GATE PLAN VIEW  
 1 1/2" = 1'-0"

② TYPICAL SWING GATE ELEVATION VIEW  
 1" = 1'-0"

SMALL GATE FRAME (KESGF6640) LOAD TABLE			
GATE HEIGHT 'H' (MAX)	GATE WIDTH 'W' (MAX) <sup>1</sup>	MAX DESIGN PRESSURE <sup>2</sup>	MAX WIND PRESSURE <sup>3</sup>
6'-0"	3'-6"	42 PSF	70 PSF
6'-0"	4'-0"	42 PSF	70 PSF
6'-0"	5'-0" <sup>4</sup>	33 PSF	55 PSF
6'-0"	6'-0" <sup>4</sup>	27 PSF	45 PSF

1. MAX WIDTH BASED ON SOLID GATE WITH MINIMAL GAPS.
2. MAX ALLOWED ASD FACTORED LOAD FOR GATE AS DEFINED BY ASCE 7.
3. MAX ULTIMATE WIND PRESSURE FOR GATE AS DEFINED BY ASCE 7.
4. GATE FRAME SHALL NOT EXCEED 4'-0" IN WIDTH FOR GUARDRAIL APPLICATIONS.

6" SLAT (KES15016) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE <sup>2</sup>	MAX WIND PRESSURE <sup>3</sup>
3'-0"	146 PSF	243 PSF
4'-0"	82 PSF	136 PSF
5'-0"	52 PSF	86 PSF
6'-0"	36 PSF	60 PSF

1. MAX SLAT SPAN BASED ON PRESSURE APPLIED TO LARGE FLAT FACE.
2. MAX ALLOWED ASD FACTORED LOAD AS DEFINED BY ASCE 7.
3. MAX ULTIMATE WIND PRESSURE AS DEFINED BY ASCE 7.
4. SLATS SHALL BE EVALUATED BY EOR FOR USE IN GUARDRAIL APPLICATION.

4" SLAT (KES10016) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE <sup>2</sup>	MAX WIND PRESSURE <sup>3</sup>
3'-0"	138 PSF	230 PSF
4'-0"	77 PSF	128 PSF
5'-0"	49 PSF	81 PSF
6'-0"	34 PSF	56 PSF

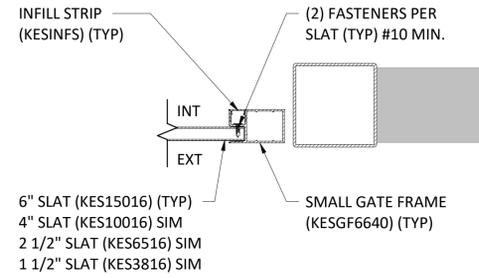
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2. MAX ALLOWED ASD FACTORED LOAD AS DEFINED BY ASCE 7.
3. MAX ULTIMATE WIND PRESSURE AS DEFINED BY ASCE 7.
4. SLATS SHALL BE EVALUATED BY EOR FOR USE IN GUARDRAIL APPLICATION.

2 1/2" SLAT (KES6516) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE <sup>2</sup>	MAX WIND PRESSURE <sup>3</sup>
3'-0"	120 PSF	200 PSF
4'-0"	67 PSF	111 PSF
5'-0"	43 PSF	71 PSF
6'-0"	30 PSF	50 PSF

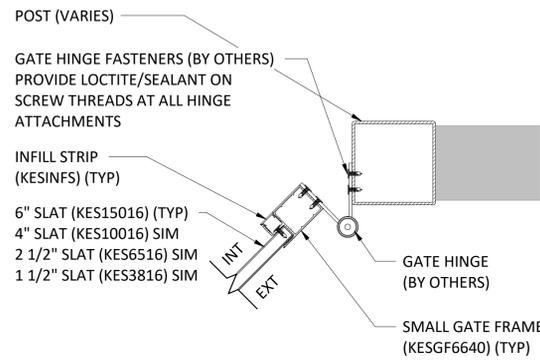
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3. MAX ULTIMATE WIND PRESSURE AS DEFINED BY ASCE 7.
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1 1/2" SLAT (KES3816) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE <sup>2</sup>	MAX WIND PRESSURE <sup>3</sup>
3'-0"	122 PSF	203 PSF
4'-0"	68 PSF	113 PSF
5'-0"	44 PSF	73 PSF
6'-0"	30 PSF	50 PSF

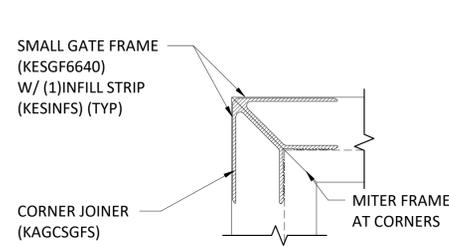
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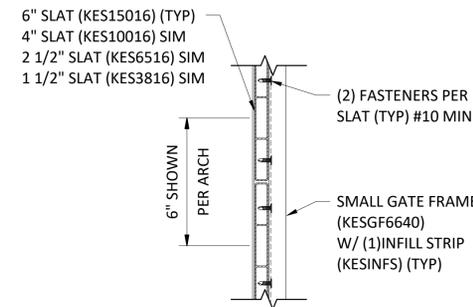
1 TYPICAL SMALL GATE EDGE DETAIL  
 3" = 1'-0"



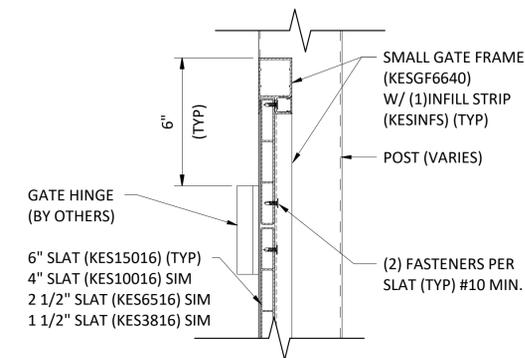
2 TYPICAL SMALL GATE HINGE DETAIL  
 3" = 1'-0"



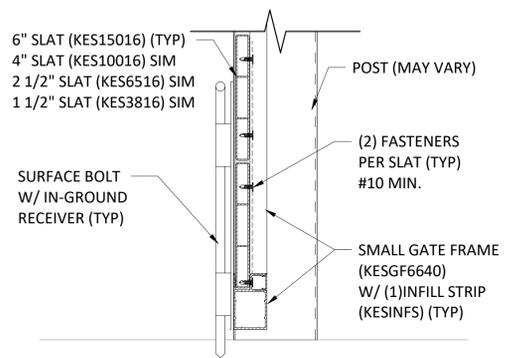
3 TYPICAL SMALL GATE FRAME CORNER  
 3" = 1'-0"



4 TYPICAL SMALL GATE CONNECTION DETAIL  
 3" = 1'-0"



5 TYPICAL SMALL GATE TOP CONNECTION DETAIL (BOT SIMILAR)  
 3" = 1'-0"



6 TYPICAL SMALL GATE BOTTOM LATCH DETAIL  
 3" = 1'-0"

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PROJECT NAME:  
 KNOTWOOD - GENERIC PEDESTRIAN GATE SHOP DRAWINGS

PROJECT LOCATION:

DRAWING NAME:  
 TYPICAL SMALL GATE DETAILS

SEAL & SIGNATURE	PROJECT NO:	202110314
	DRAWN BY:	
	CHECKED BY:	
	DRAWING NO:	A-101
PAGE NO:		

1. GENERIC LAYOUT SHOWN, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK.

PREPARED FOR:  
**KNOTWOOD**  
 Stunning Aluminum  
 5555 W Roosevelt St  
 Phoenix, AZ 85043

ISSUED FOR:  
 ISSUED DATE: 05/15/2024

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PROJECT NAME:  
**KNOTWOOD - GENERIC PEDESTRIAN GATE SHOP DRAWINGS**

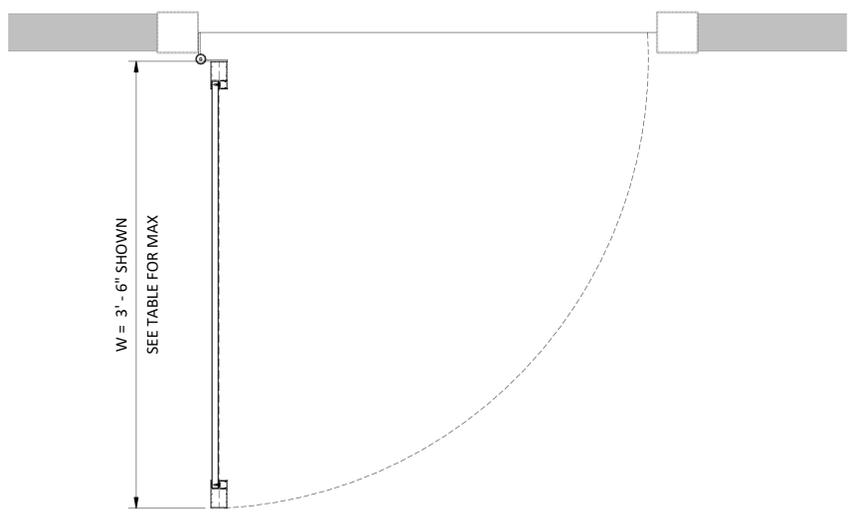
PROJECT LOCATION:

DRAWING NAME:  
**LARGE GATE PLAN & ELEVATIONS**

SEAL & SIGNATURE	PROJECT NO: 202110314
	DRAWN BY:
	CHECKED BY:
	DRAWING NO: <b>A-200</b>
	PAGE NO:

LARGE GATE FRAME (KESGF10050) LOAD TABLE			
GATE HEIGHT 'H' (MAX)	GATE WIDTH 'W' (MAX) <sup>1</sup>	MAX DESIGN PRESSURE <sup>2</sup>	MAX WIND PRESSURE <sup>3</sup>
6'-0"	3'-6"	156 PSF	260 PSF
6'-0"	4'-0"	132 PSF	220 PSF
6'-0"	5'-0"	108 PSF	180 PSF
6'-0"	6'-0"	84 PSF	140 PSF
6'-0"	7'-0"	60 PSF	100 PSF
6'-0"	8'-0"	45 PSF	75 PSF
6'-0"	8'-6"	39 PSF	65 PSF
6'-0"	9'-0"	36 PSF	60 PSF
6'-0"	10'-0"	27 PSF	45 PSF
6'-0"	11'-0"	22 PSF	38 PSF
6'-0"	12'-0"	19 PSF	32 PSF

- MAX WIDTH BASED ON SOLID GATE WITH MINIMAL GAPS.
- MAX ALLOWED ASD FACTORED LOAD FOR GATE AS DEFINED BY ASCE 7.
- MAX ULTIMATE WIND PRESSURE FOR GATE AS DEFINED BY ASCE 7.



1 TYPICAL LARGE GATE PLAN VIEW  
 1 1/2" = 1'-0"

6" SLAT (KES15016) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE <sup>2</sup>	MAX WIND PRESSURE <sup>3</sup>
3'-0"	146 PSF	243 PSF
4'-0"	82 PSF	136 PSF
5'-0"	52 PSF	86 PSF
6'-0"	36 PSF	60 PSF

- MAX SLAT SPAN BASED ON PRESSURE APPLIED TO LARGE FLAT FACE.
- MAX ALLOWED ASD FACTORED LOAD AS DEFINED BY ASCE 7.
- MAX ULTIMATE WIND PRESSURE AS DEFINED BY ASCE 7.
- SLATS SHALL BE EVALUATED BY EOR FOR USE IN GUARDRAIL APPLICATION.

4" SLAT (KES10016) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE <sup>2</sup>	MAX WIND PRESSURE <sup>3</sup>
3'-0"	138 PSF	230 PSF
4'-0"	77 PSF	128 PSF
5'-0"	49 PSF	81 PSF
6'-0"	34 PSF	56 PSF

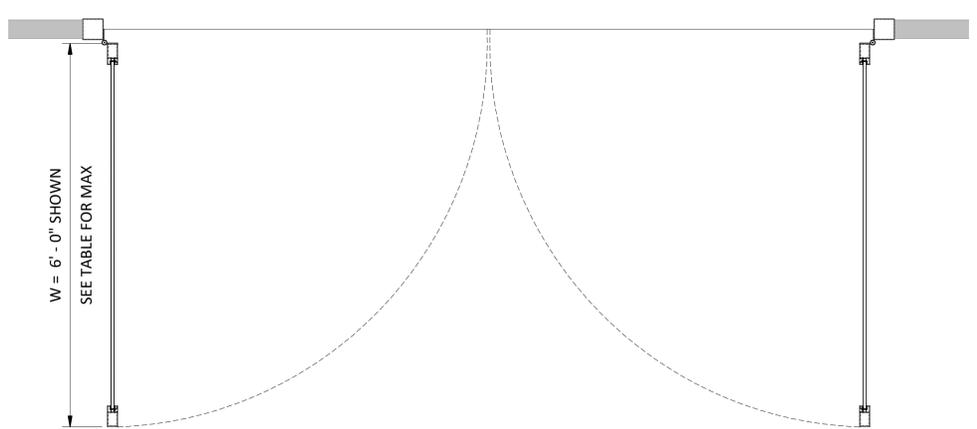
- MAX SLAT SPAN BASED ON PRESSURE APPLIED TO LARGE FLAT FACE.
- MAX ALLOWED ASD FACTORED LOAD AS DEFINED BY ASCE 7.
- MAX ULTIMATE WIND PRESSURE AS DEFINED BY ASCE 7.
- SLATS SHALL BE EVALUATED BY EOR FOR USE IN GUARDRAIL APPLICATION.

2 1/2" SLAT (KES6516) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE <sup>2</sup>	MAX WIND PRESSURE <sup>3</sup>
3'-0"	120 PSF	200 PSF
4'-0"	67 PSF	111 PSF
5'-0"	43 PSF	71 PSF
6'-0"	30 PSF	50 PSF

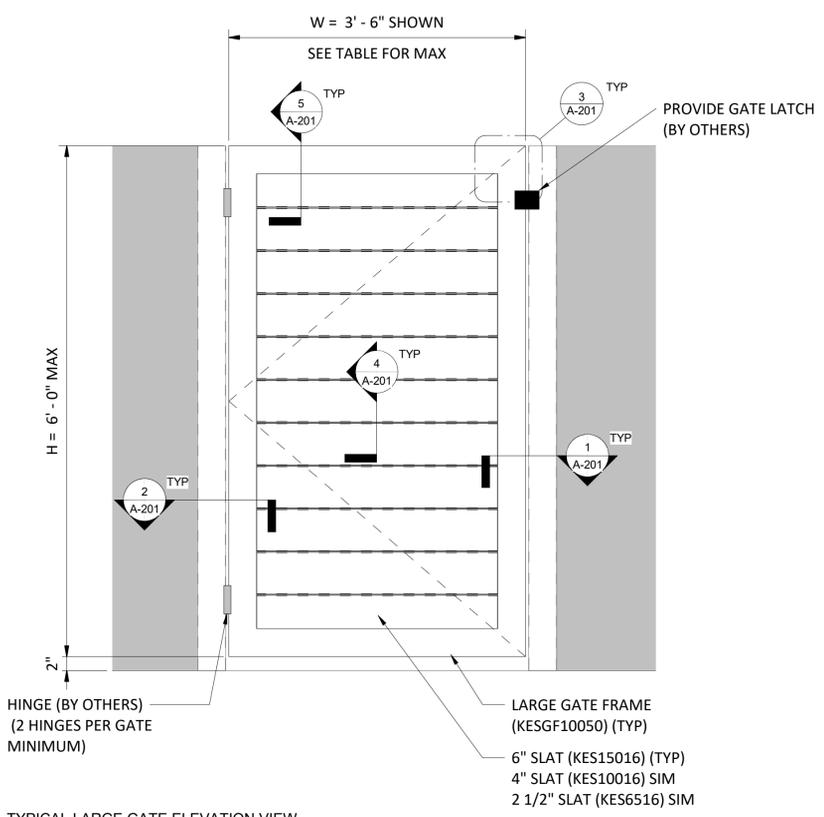
- MAX SLAT SPAN BASED ON PRESSURE APPLIED TO LARGE FLAT FACE.
- MAX ALLOWED ASD FACTORED LOAD AS DEFINED BY ASCE 7.
- MAX ULTIMATE WIND PRESSURE AS DEFINED BY ASCE 7.
- SLATS SHALL BE EVALUATED BY EOR FOR USE IN GUARDRAIL APPLICATION.

1 1/2" SLAT (KES3816) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE <sup>2</sup>	MAX WIND PRESSURE <sup>3</sup>
3'-0"	122 PSF	203 PSF
4'-0"	68 PSF	113 PSF
5'-0"	44 PSF	73 PSF
6'-0"	30 PSF	50 PSF

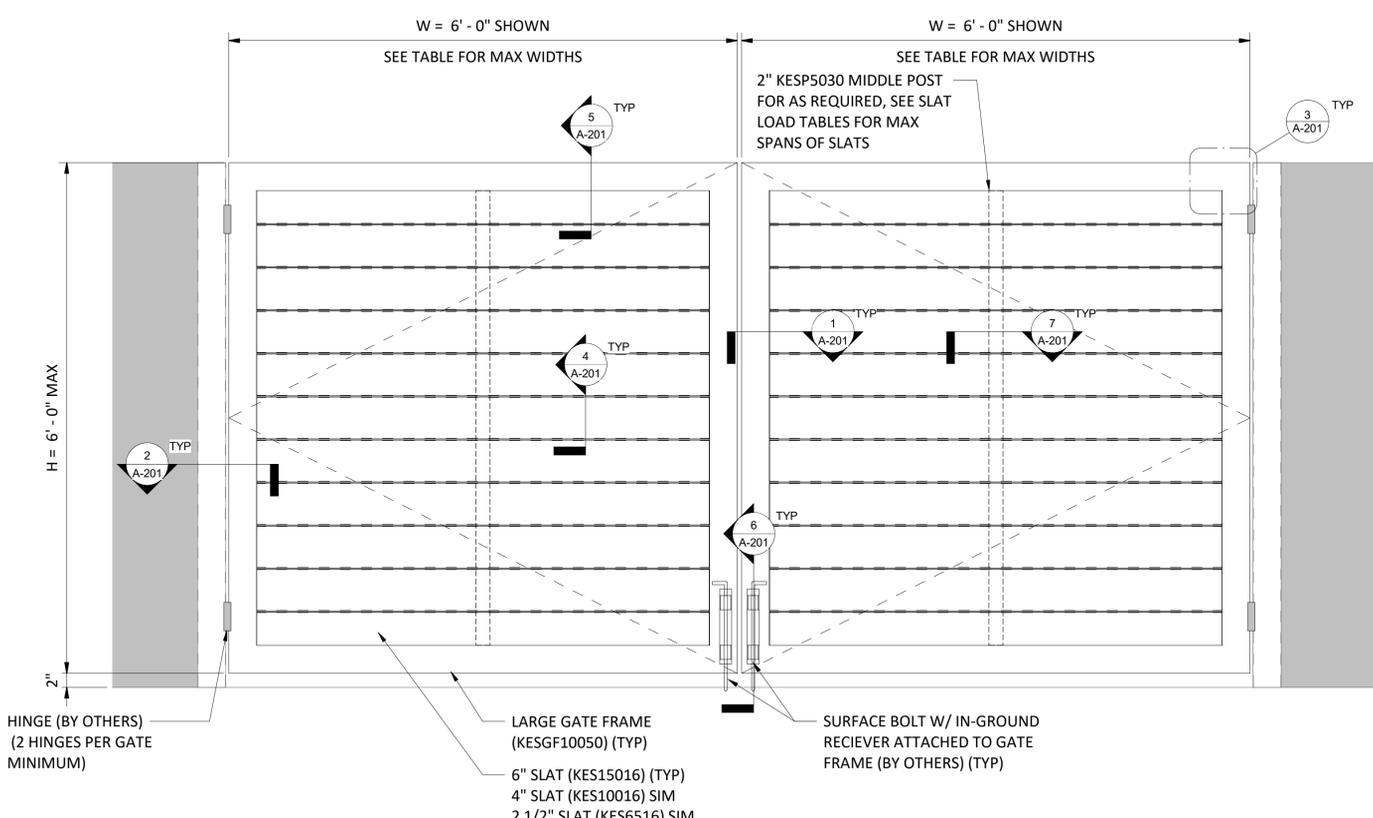
- MAX SLAT SPAN BASED ON PRESSURE APPLIED TO LARGE FLAT FACE.
- MAX ALLOWED ASD FACTORED LOAD AS DEFINED BY ASCE 7.
- MAX ULTIMATE WIND PRESSURE AS DEFINED BY ASCE 7.
- SLATS SHALL BE EVALUATED BY EOR FOR USE IN GUARDRAIL APPLICATION.



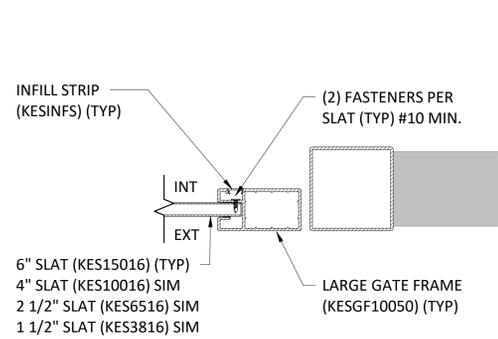
3 TYPICAL LARGE DOUBLE GATE PLAN VIEW  
 3/4" = 1'-0"



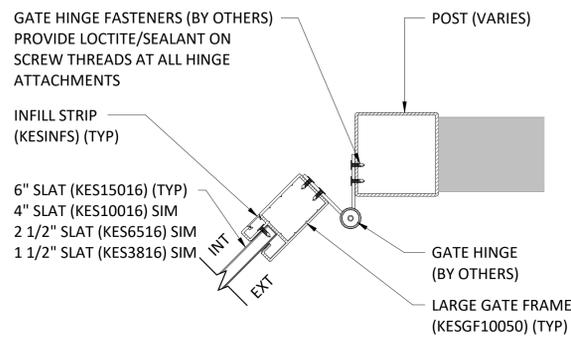
2 TYPICAL LARGE GATE ELEVATION VIEW  
 1" = 1'-0"



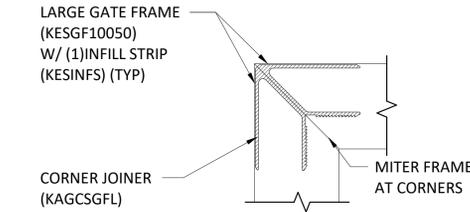
4 TYPICAL LARGE DOUBLE GATE ELEVATION  
 1" = 1'-0"



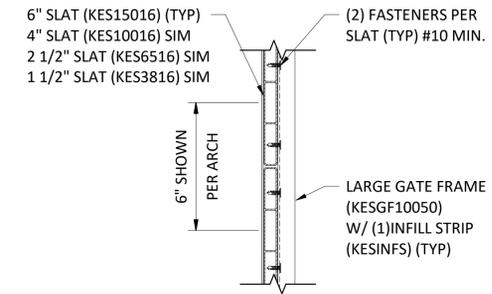
① TYPICAL LARGE GATE EDGE DETAIL  
3" = 1'-0"



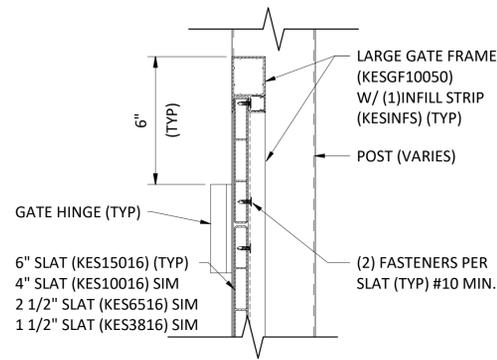
② TYPICAL LARGE GATE HINGE DETAIL  
3" = 1'-0"



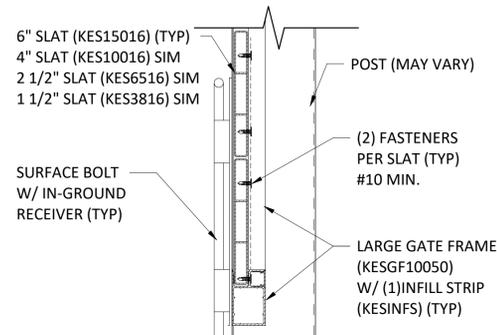
③ TYPICAL LARGE GATE FRAME CORNER  
3" = 1'-0"



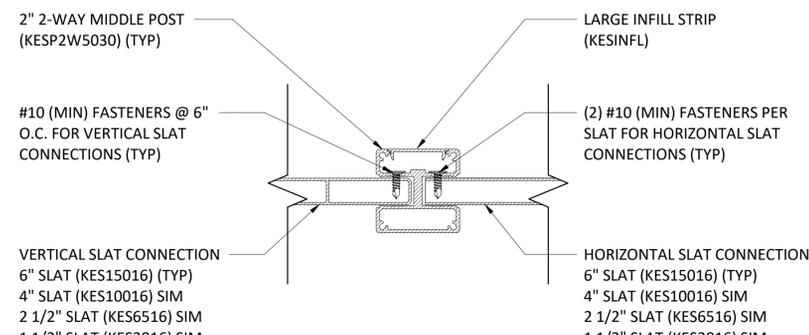
④ TYPICAL LARGE GATE CONNECTION DETAIL  
3" = 1'-0"



⑤ TYPICAL LARGE GATE TOP CONNECTION DETAIL (BOT SIMILAR)  
3" = 1'-0"



⑥ TYPICAL LARGE GATE BOTTOM LATCH DETAIL  
3" = 1'-0"



⑦ TYPICAL MIDDLE POST CONNECTION DETAIL  
6" = 1'-0"

PREPARED FOR:  
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 Stunning Aluminum  
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