

**I**✓ KNOTWOOD

05/15/2024

PLAN REVISIONS

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KNOTWOOD - GENERIC VEHICLE SLIDING
GATE SHOP DRAWINGS

TITLE SHEET

202110314

CHECKED BY:

Stunning Aluminum

ISSUED FOR:

ISSUED DATE:

PROJECT NAME:

PROJECT LOCATION:

DRAWING NAME:

SEAL & SIGNATURE

# KNOTWOOD - GENERIC SLIDING GATE SHOP DRAWINGS

PROPERTY MANAGER:
PER ARCHITECT / ENGINEER

# **DESIGN ENGINEER**:

COMPLETE JOINT PENETRATION

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

**ELEVATOR** 

EMBED EMBEDMENT

DRAWING LIST			LATEST REVISION	<u>DATE</u>
T-100	-	TITLE SHEET		
G-100	-	GENERAL NOTES		
A-100	-	SLIDING GATE PLAN & ELEVATION		
A-101	_	TYPICAL SLIDING GATE DETAILS		

STEEL JOIST INSTITUTE

SHORT LED (DIM) VERTICAL

<u>ABBREVIA</u>	ATIONS:	<u>ABBREVIA</u>	ATIONS (CONT.):	<u>ABBREVI</u>	ATIONS (CONT.):	<u>ABBREVI</u>	ATIONS (CONT.):	<u>ABBREVI</u>	ATIONS (CONT.):	<u>ABBREVI</u>	ATIONS (CONT.):
ABV	ABOVE	CLSM	CONTROLLED LOW STRENGTH MATERIAL	EOS	EDGE OF SLAB	kN	KILONEWTON	(N)	NEW	SOG	SLAB-ON-GRADE
ACI	AMERICAN CONCRETE INSTITUTE	CMU	CONCRETE MASONRY UNIT	EQ	EQUAL	kPa	KILOPASCAL	OC	ON CENTER	STD	STANDARD
ACIP	AUGERED CAST-IN-PLACE PILES	CO	CLEAN OUT	EQUIP	EQUIPMENT	1	LITER	OPNG	OPENING	STL	STEEL
ADD'L	ADDITIONAL	COL	COLUMN	EW	EACH WAY	L	LENGTH	OPP	OPPOSITE	STRUCT	STRUCTURAL
ΑE	AIR-ENTRAINED	CONC	CONCRETE	EXIST	EXISTING	LBS	POUNDS	O.F.	OUTER FACE	T	TOP OF TREAD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CONT	CONTINUOUS	EXP	EXPANSION	Ld	REINF BAR DEVELOPMENT LENGTH	PJP	PARTIAL JOINT PENETRATION	T/	TOP OF
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	COORD	COORDINATE	FT	FOOT/FEET	LLH	LONG LEG HORIZ	PSF	POUNDS PER SQUARE FOOT	TOF	TOP OF FOOTING
APPROX	APPROXIMATELY	COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE	FTG	FOOTING	LLV	LONG LEG VERT	PSI	POUNDS PER SQUARE INCH	TOS	TOP OF STEEL
AR	ANCHOR ROD	db	REINFORCING BAR DIAMETER	FE	FIRE ESCAPE	LP	LOW POINT	PT	POST-TENSION	THK	THICK
ARCH	ARCHITECTURAL	DIA	DIAMETER	GALV	GALVANIZE	LTWT	LIGHT WEIGHT	R	RISER	TMS	THE MASONRY SOCIETY
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	DN	DOWN	GL	GRIDLINE	m	METER	REF	REFERENCE	TYP	TYPICAL
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	DTLS	DETAILS	Н	HIGH	mm	MILLIMETER	REINF	REINFORCING OR REINFORCEMENT	UNO	UNLESS NOTED OTHERWISE
AWS	AMERICAN WELDING SOCIETY	DWG	DRAWING	HORIZ	HORIZONTAL	MAX	MAXIMUM	REQ'D	REQUIRED	VERT	VERTICAL
В	BOTTOM	DWLS	DOWELS	HP	HIGH POINT	MANUF	MANUFACTURER	SCHED	SCHEDULE	W/C	WATER-CEMENTITIOUS MATERIAL RATIO
B/	BOTTOM OF	E	EXISTING	HS	HIGH STRENGTH	MECH	MECHANICAL	SC	SLIP CRITICAL	W	WIDTH
ВН	BULKHEAD	EA	EACH	HSA	HEADED SHEAR ANCHOR	MEP	MECH/ELECT/PLUMBING	SDI	STEEL DECK INSTITUTE	WD	WOOD
BLDG	BUILDING	EF	EACH FACE	IN	INCH(ES)	MIN	MINIMUM	SDL	SUPERIMPOSED DEAD LOAD	WP	WORK POINT
BM	BEAM	EL	ELEVATION	IP	INFLECTION POINT	MPa	MEGAPASCAL	SEC	SECONDS	WWR	WELDED WIRE REINFORCEMENT
BOT	воттом	ELECT	ELECTRICAL	I.F.	INSIDE FACE	MTL	METAL	SIM	SIMILAR		

KIPS (1000 POUNDS)

NEWTON

NORMAL WEIGHT

### **GENERAL NOTES:**

### 1. **DRAWING REFERENCE:**

N/A

- 2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO INSTALLATION. DO NOT SCALE OFF DRAWINGS.
- 3. ALL MEMBERS SHALL BE SAW CUT IN FIELD AS REQUIRED.
- 4. NO SPLICES SHALL BE PERMITTED UNLESS INDICATED OTHERWISE ON DRAWINGS.
- 5. TOUCH UP ALL SCRATCHES WITH DEALER PROVIDED COLORS TO MATCH.
- 6. WELDING IS NOT PERMITTED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- 7. THE CONTENTS SHOW THE APPLICATION OF ALUMINUM KNOTWOOD FRAMING COMPONENTS ONLY. THE INSTALLING CONTRACTOR IS TO REFER TO THE PROJECT DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. THIS SUBMITTAL IS SUBJECT TO THE REVIEW AND APPROVAL OF THE PROJECT ARCHITECT/ENGINEER OF RECORD PRIOR TO INSTALLATION.

# **BUILDING LOADS:**

- 1. SUPERIMPOSED DEAD LOAD AND LIVE LOADS
  - a. DEAD LOAD

1.	KESGF10050	1.83 PLF
2.	KESP2W5050	1.00 PLF
3.	KES15016	0.95 PLF
4.	KES10016	0.60 PLF
5.	KES6516	0.33 PLF
6.	KES3816	0.22 PLF

h LIVELOADS

LIVE	LIVE LOADS				
1.	DISTRIBUTED LOAD	5 PSF			
2.	FRAME CONCENTRATED LOAD	200 LBF			
3.	INFILL CONCENTRATED LOAD	50 LBF			

- 2. SNOW LOADS
  - a. N/A SNOW LOADS NEGLECTED
- a.
- a. SEE LOAD TABLES FOR MAX WIND PRESSURES
- 4. SEISMIC
  - a. N/A SEISMIC LOADS NEGLECTED

# CODES AND STANDARDS:

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

### **ALUMINUM NOTES:**

1. ALL STRUCTURAL ALUMINUM COMPONENTS SHALL BE FABRICATED AND ERECTED ACCORDING TO THE GOVERNING BUILDING CODE AND ADM-2015.

### 2. 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

### 3. SCREWS:

SELF-TAPPING METAL SCREWS (AS NOTED) - #10 MINIMUM GALVANIZED UNLESS NOTED OTHERWISE ALUMINUM WHERE NOTED AT HIGH/SALT EXPOSURE

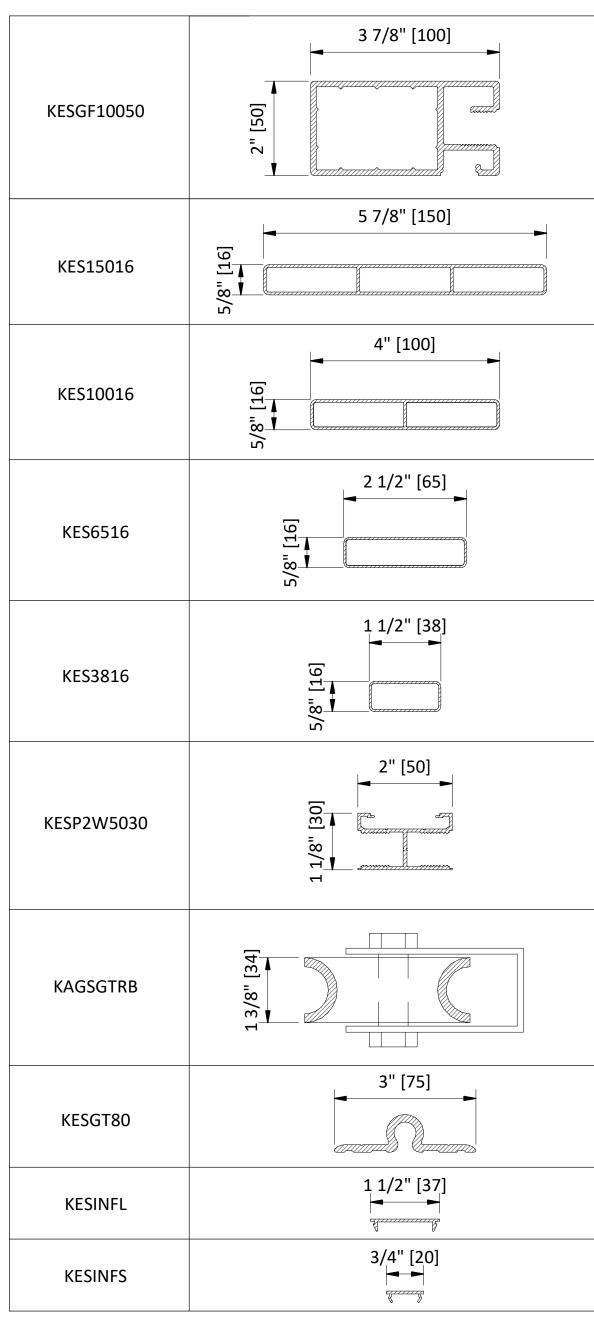
- 4. WHERE ALUMINUM IS IN CONTACT WITH OTHER METALS EXCEPT 300 SERIES STAINLESS TELL, ZINC OR CADMIUM AND THE FAYING SURFACES ARE EXPOSED TO MOISTURE, THE OTHER METALS SHALL BE PAINTED OR COATED WITH ZINC, CADMIUM, OR ALUMINUM.
- 5. UNCOATED ALUMINUM SHALL NOT BE EXPOSED TO MOISTURE OR RUNOFF THAT HAS COME IN CONTACT WITH OTHER UNCOATED METALS EXCEPT 300 SERIES STAINLESS, ZINC, OR CADMIUM.
- 6. ALUMINUM SURFACES TO BE PLACED IN CONTACT WITH WOOD, FIBERBOARD, OR OTHER POROUS MATERIAL THAT ABSORBS WATER SHALL BE PAINTED.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. BOLT HOLES SHALL BE DRILLED THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16" (U.O.N.).
- 12. PREDRILL ALL HOLES FOR MATERIAL THICKER THAN 3/16".
- 13. NOMINAL DIAMETER OF UNTHREADED HOLES FOR SCREWS SHALL NOT EXCEED THE NOMINAL DIAMETER OF THE SCREWS BY MORE THAN 1/16".
- 14. THE SPACING BETWEEN SCREW CENTERS SHALL NOT BE LESS THAN 2.5 TIMES THE NOMINAL DIAMETER OF THE SCREWS.
- 15. 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.
- 16. 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.

#10-16X1" HEX WASHER HEAD (HWH) SELF DRILLING SCREW (5/16" HEX-HEAD) (METAL TO METAL) MANUF. PART NO. 10100HW3CS	TRIANGLE FASTENER 1-800-486-1832
#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

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





PREPARED FOR:

KNOTWOOD

Stunning Aluminum

5555 W Roosevelt St
Phoenix, AZ 85043

SUED	FOR:	

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PROJECT NAME:

KNOTWOOD - GENERIC VEHICLE SLIDING
GATE SHOP DRAWINGS

PROJECT LOCATION:

DRAWING NAME:

GENERAL NOTES

SEAL & SIGNATURE

DRAWN BY:

CHECKED BY:

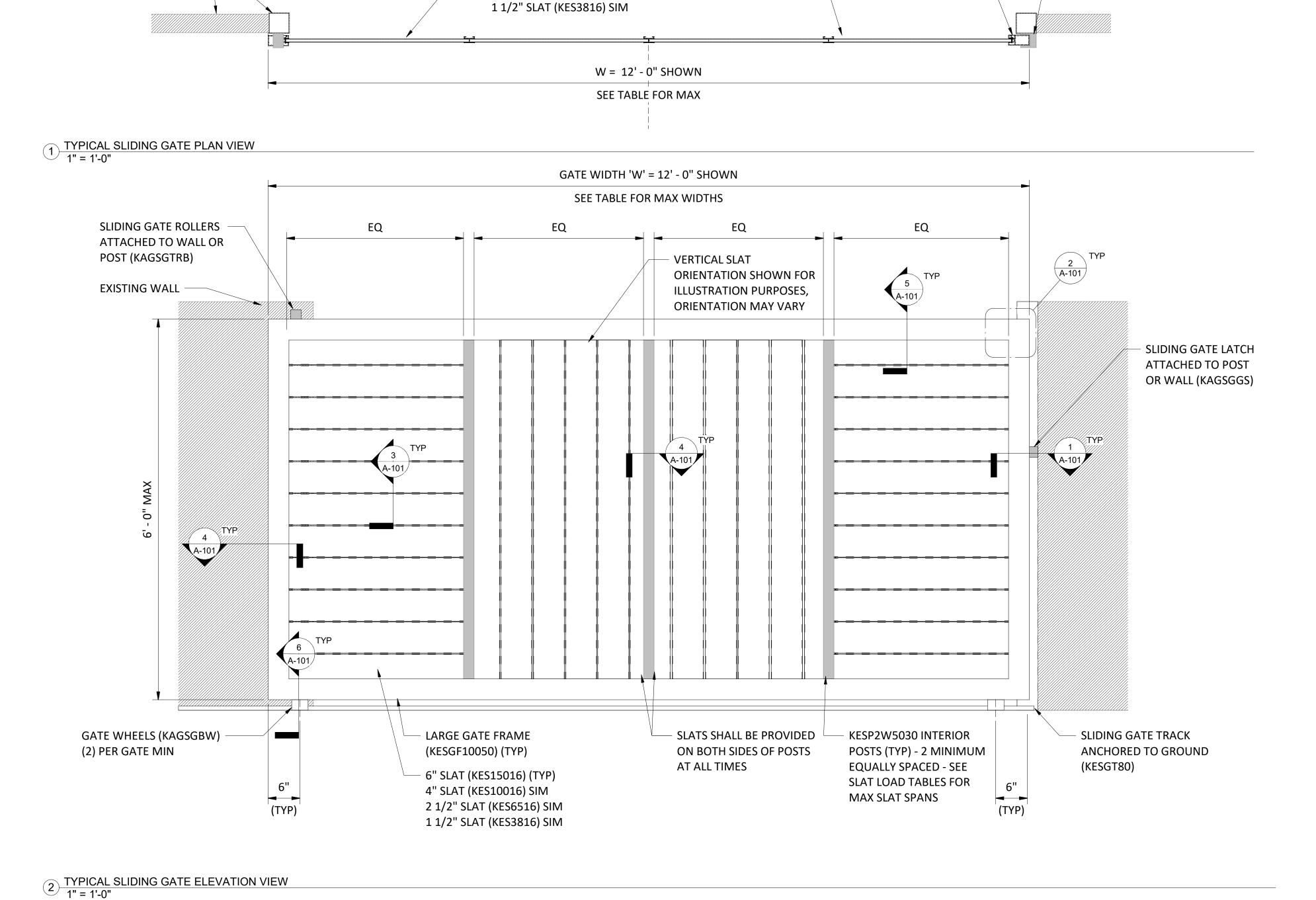
DRAWING NO:

G-100

PROJECT NO:

202110314

AGE NO:



KESP2W5030 INTERIOR -

POSTS (TYP)

6" SLAT (KES15016) (TYP)

2 1/2" SLAT (KES6516) SIM

4" SLAT (KES10016) SIM

EXISTING WALL OR

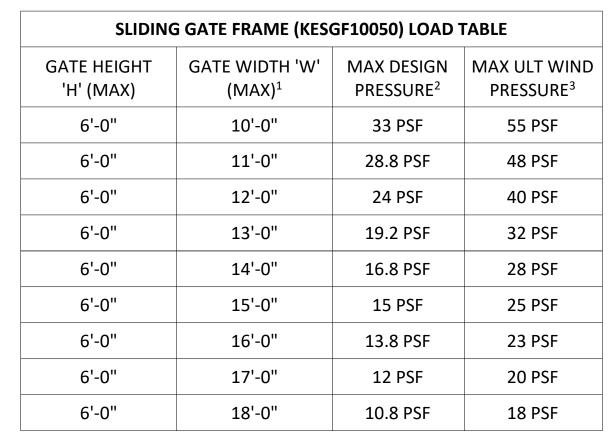
POST

LARGE GATE FRAME

(KESGF10050) (TYP)

SLIDING GATE LATCH

ATTACHED TO POST OR WALL (KAGSGGS)



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.

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			

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.

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			

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.

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			

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.

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

PREPARED FOR:	
K	KNOTWOOL Stunning Aluminur 5555 W Roosevelt St Phoenix, AZ 85043

ISSUED FOR:		

ISSUED DATE: 05/15/2024

PLAN REVISIONS NO. DATE DESCRIPTION

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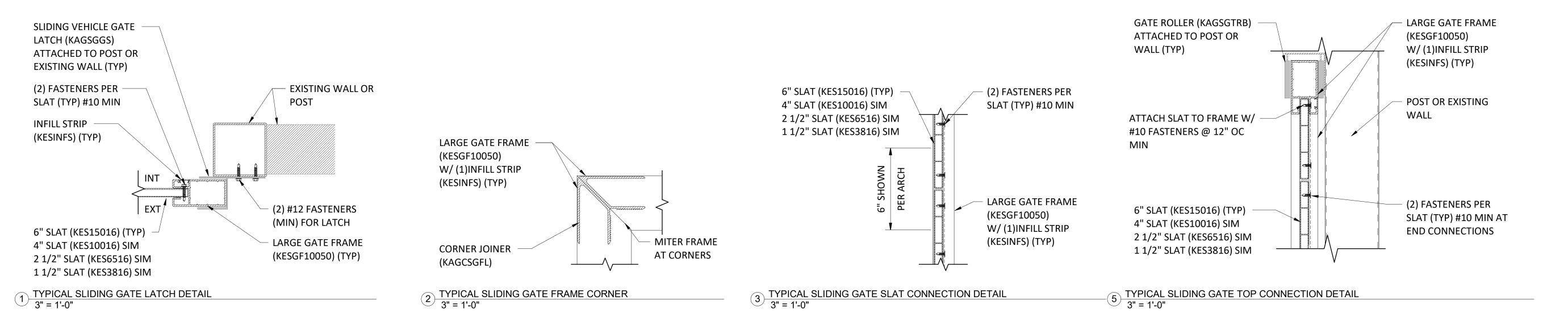
KNOTWOOD - GENERIC VEHICLE SLIDING GATE SHOP DRAWINGS

PROJECT LOCATION:

DRAWING NAME:

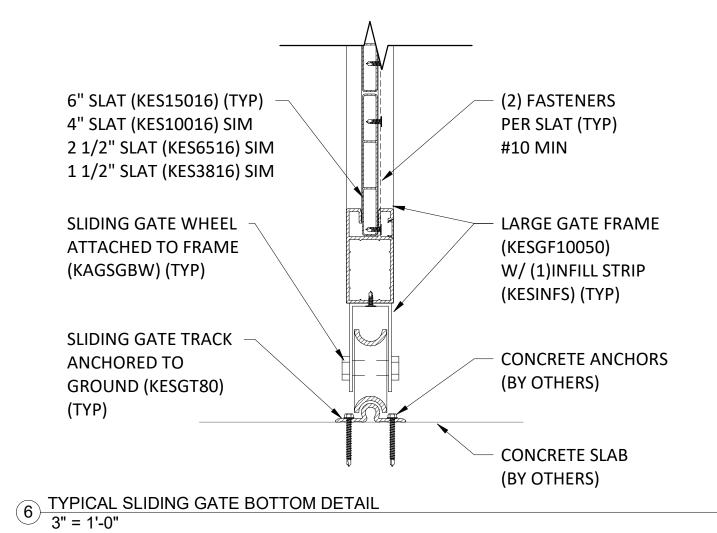
SLIDING GATE PLAN & ELEVATION

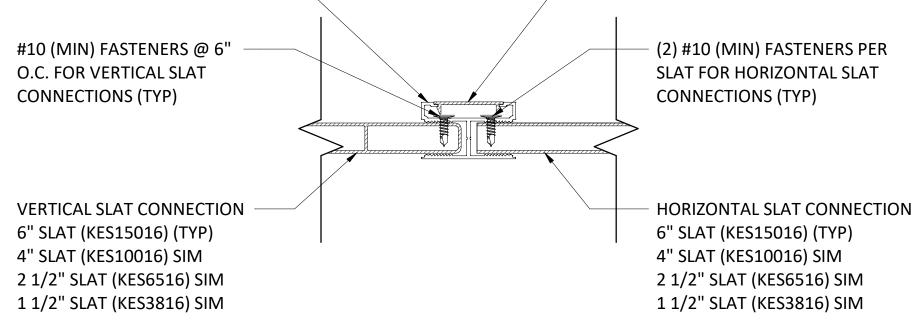
SEAL & SIGNATURE PROJECT NO: 202110314 DRAWN BY: CHECKED BY: DRAWING NO:



LARGE INFILL STRIP

(KESINFL)





4 TYPICAL SLIDING GATE MIDDLE POST CONNECTION DETAIL 6" = 1'-0"

2" 2-WAY MIDDLE POST

(KESP2W5030) (TYP)

**I** KNOTWOOD ™ Stunning Aluminum 5555 W Roosevelt St Phoenix, AZ 85043 ISSUED FOR: ISSUED DATE: 05/15/2024 PLAN REVISIONS DESCRIPTION THE DESIGN CONCEPTS, IDEAS, AND ALL ASSOCIATED INFORMATION DEPICTED HEREIN IS THE SOLE PROPERTY OF PVE, LLC. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR BENEFIT OF THE PERSON(S) NAMED ABOVE AND FOR THE PROJECT NOTED ON THIS DOCUMENT. THE REPRODUCTION, ALTERATION, USE BY ANY THIRD PARTY, OR USE FOR ANY PROJECT NOTED THIS DOCUMENT. I THE REPORT OF THE REPORT OF THE STANDY, OF BY ANY THIRD YEARTY, OR USE FOR ANY PURPOSE OTHER THAN SPECIFIED, WITHOUT WRITTEN CONSENT FROM PVE LLC, IS PROHIBITED AND A VIOLATION OF LAW, USE OF THIS DOCUMENT IS WITH FULL RESPONSIBILITY OF ALL INHERENT ERRORS OR OMISSIONS. ELECTRONIC COPIES OF THIS DOCUMENT SHALL BE SUBJECT TO THE SAME COPYRIGHT CONDITIONS AS STATED ABOVE. ELECTRONIC MEDIA MAY CONTAIN ERRORS OR SYSTEM INCOMPATIBILITIES, PVE, LLC. IN ISSUANCE OF THIS DOCUMENT, MAKES NO GUARANTEES AS TO THE ACCURACY OF THE ELECTRONIC DATA OR THE GENERAL WORKABILITY OF THIS DOCUMENT. PROJECT NAME: KNOTWOOD - GENERIC VEHICLE SLIDING GATE SHOP DRAWINGS PROJECT LOCATION: DRAWING NAME: TYPICAL SLIDING GATE DETAILS

SEAL & SIGNATURE

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DRAWN BY:

CHECKED BY:

DRAWING NO:

202110314

E-MAIL: STRUCTURES@PVE-LLC.COM