PARALLEL ARCHITECTURAL PRODUCTS
TYPICAL PEDESTRIAN GATE DETAILS

DRAWING LIST			LATEST REVISION	DATE
T-001	-	TITLE SHEET		
S-001	-	GENERAL NOTES		
S-100	-	SMALL GATE PLAN & ELEVATION		
S-101	-	LARGE GATE PLAN & ELEVATION		
S-102	-	LARGE DOUBLE GATE PLAN & ELEVATION		
S-300	-	SMALL GATE TYPICAL DETAILS		
S-301	-	LARGE GATE TYPICAL DETAILS		

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PREPARED FOR:
PARALLEL ARCHITECTURAL PRODUCTS

ISSUED FOR:
REFERENCE

ISSUED DATE:
07/09/2025

PLAN REVISIONS

NO.	DATE	DESCRIPTION

PROJECT NAME:
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PROJECT LOCATION:
PER PROJECT SPECIFICATIONS

SHEET NAME:
TITLE SHEET

SEAL & SIGNATURE

PROJECT NO: 20240131
DRAWN BY: CJS
CHECKED BY: DSG
SHEET NO: T-001
PAGE NO: 1 OF 7

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 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.

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_y: 35 KSI	F_y: 25 KSI	F_y: 16 KSI
F_u: 38 KSI	F_u: 30 KSI	F_u: 22 KSI
E: $10x10^3$ KSI	E: $10x10^3$ KSI	E: $10x10^3$ KSI

3. **SCREWS:**
   SELF-TAPPING METAL SCREWS (AS NOTED) - #10 MINIMUM
   GALVANIZED UNLESS NOTED OTHERWISE
   304/316 STAINLESS STEEL OR ALUMINUM COATED WHERE NOTED AT HIGH/SALT EXPOSURE
4. WHERE ALUMINUM IS IN CONTACT WITH OTHER METALS EXCEPT 300 SERIES STAINLESS STEEL, 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".

CODES AND STANDARDS:

1. 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:
   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. ANSI/AISC 360-16, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
   e. AISI S100-16, "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"

ABBREVIATIONS

ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AE	AIR-ENTRAINED
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWS	AMERICAN WELDING SOCIETY
B/	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
CANT	CANTILEVER
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
db	REINFORCING BAR DIAMETER
DIA	DIAMETER
DIM	DIMENSION
DTLS	DETAILS
DWG	DRAWING
DWLS	DOWELS
EA	EACH
EF	EACH FACE
EL	ELEVATION
EMBED	EMBEDMENT
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
(E)	EXISTING
EX	EXISTING
EXP	EXPANSION
FT	FOOT/FEET
FTG	FOOTING
GALV	GALVANIZE
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HIGH STRENGTH
HSA	HEADED SHEAR ANCHOR
IN	INCH(ES)
IF	INSIDE FACE
JT	JOINT
K	KIPS (1000 POUNDS)
L	LENGTH
LBS	POUNDS
Ld	REINFORCEMENT BAR DEVELOPMENT LENGTH
LLH	LONG LEG (DIM) HORIZ
LLV	LONG LEG (DIM) VERT
LP	LOW POINT
LWT	LIGHT WEIGHT
MAX	MAXIMUM
MFR	MANUFACTURER
MECH	MECHANICAL
MEP	MECH/ELECT/PLUMBING
MIN	MINIMUM
MTL	METAL
NWT	NORMAL WEIGHT
(N)	NEW
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OF	OUTER FACE
P	PIER
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
REQD	REQUIRED
SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE
SDL	SUPERIMPOSED DEAD LOAD
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SLV	SHORT LEG VERTICAL DIMENSION
SOE	SUPPORT OF EXCAVATION
SOG	SLAB-ON-GRADE
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
T/	TOP OF
THK	THICK
TMS	THE MASONRY SOCIETY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/C	WATER-CEMENTITIOUS MATERIAL RATIO
W	WIDTH
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

TYPICAL SCREW FASTENER LEGEND:

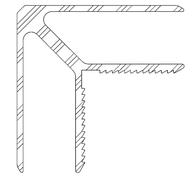
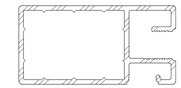
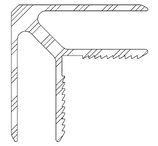
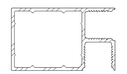
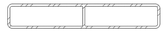
NOTE: SCREWS SHOWN BELOW ARE TYPICAL EXAMPLES AND ALL MAY NOT BE USED IN PROJECT. CONTRACTOR MAY ELECT TO USE OTHER TYPES. SCREW MATERIAL PER THE GENERAL NOTES AND MINIMUM SCREW DIAMETER PER THE DETAILS MUST BE MAINTAINED. DRILL POINT, HEAD STYLE, AND THREAD COUNT PER INCH SHALL BE SELECTED BY THE CONTRACTOR 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
#10-12X1-1/2" BURR-BUSTER SELF DRILLING SCREW (5/16" HEX-HEAD) (METAL TO WOOD) MANUF. PART NO. 10150HWBB17CSTSBW	 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
#10-13X2" GP SELF DRILLING SCREW (2/2 QUADREX DRIVE) (THIN METAL) MANUF. PART NO. 10200SPCGCSTS	 TRIANGLE FASTENER 1-800-486-1832
5/16"x1-3/4" ULTRACON+ SELF DRILLING SCREW (5/16" HEX-HEAD) (METAL TO CMU) MANUF. PART NO. DFM5ELG82	 DEWALT, ELCO, & POWERS 1-800-524-3244
#12-11X1" GP SELF DRILLING SCREW (2/2 QUADREX DRIVE) (THIN METAL) MANUF. PART NO. 12100SPCGCSTS	 TRIANGLE FASTENER 1-800-486-1832
#12-24X1-1/2" SD5 PANCAKE HEAD SELF DRILLING SCREW (2/2 QUADREX DRIVE) (METAL TO METAL) MANUF. PART NO. CSSD5-#12X1-1/2"-PC-QX-F	 SFS INTECT 1-800-234-4533
#12-24X4-3/4" CONCEALOR SELF DRILLING SCREW (#3 SQUARE) (METAL THRU EPS TO METAL) MANUF. PART NO. 126750C35E	 TRIANGLE FASTENER 1-800-486-1832

BUILDING LOADS:

1. SUPERIMPOSED DEAD LOAD AND LIVE LOADS
   a. DEAD LOAD
      1. GF-L 1.83 PLF
      2. GF-S 0.82 PLF
      3. S-6 0.95 PLF
      4. S-4 0.60 PLF
      5. S-2.5 0.40 PLF
   b. LIVE LOADS
      1. SEE SPAN TABLES
2. SNOW LOADS
   a. N/A - SNOW LOADS NEGLECTED
3. WIND
   a. SEE LOAD TABLES FOR MAX WIND PRESSURES
4. SEISMIC
   a. N/A - SEISMIC LOADS NEGLECTED

ENLARGED PART DETAILS:

P-IFS	
GF-CSL	
GF-L	
GF-CSS	
GF-S	
S-2.5	
S-4	
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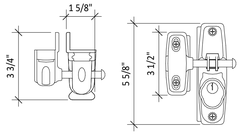
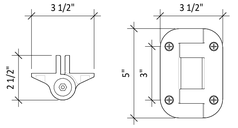
SAFETECH LATCH	 PLAN VIEW ELEVATION VIEW
SAFETECH HEAVY DUTY HINGE	 PLAN VIEW ELEVATION VIEW

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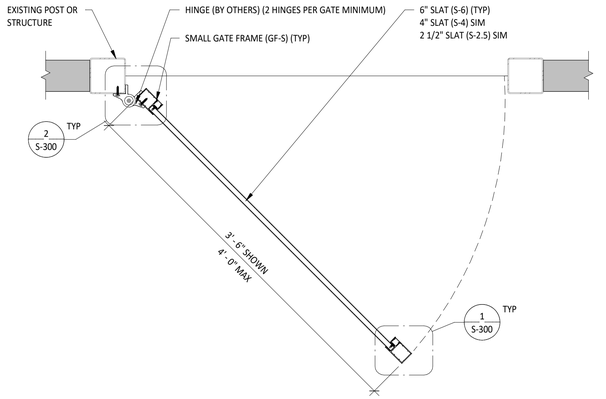
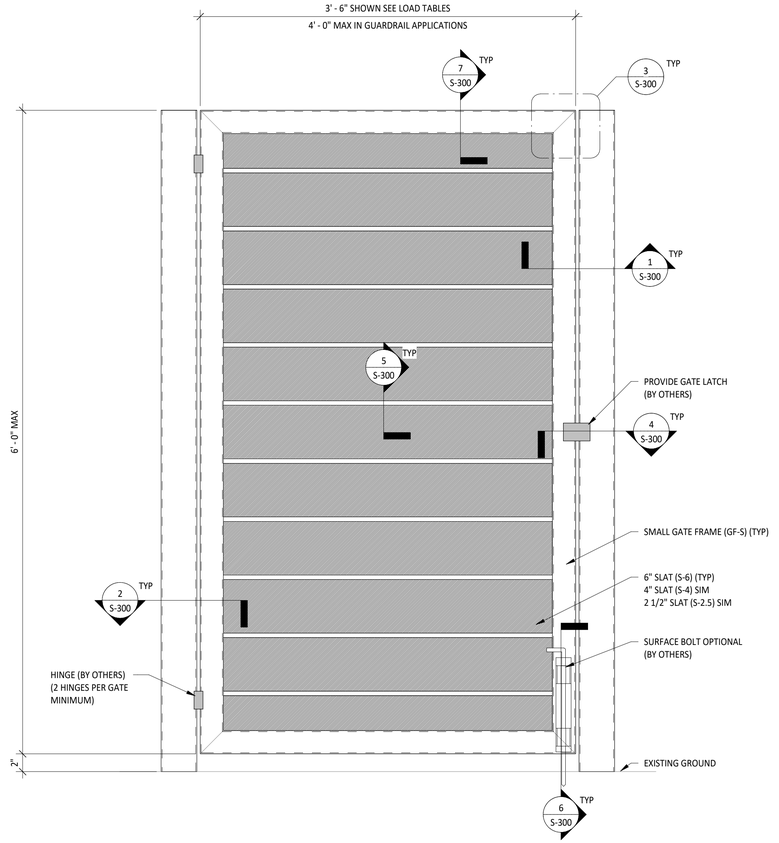


1 TYPICAL SMALL GATE PLAN VIEW
1 1/2" = 1'-0"

SMALL GATE FRAME (GF-S) LOAD TABLE			
GATE HEIGHT 'H' (MAX)	GATE WIDTH 'W' (MAX)[1]	MAX DESIGN PRESSURE[2]	MAX WIND PRESSURE[3]
6'-0"	3'-6"	42 PSF	70 PSF
6'-0"	4'-0"	42 PSF	70 PSF
6'-0"	5'-0"[4]	33 PSF	55 PSF
6'-0"	6'-0"[4]	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.



2 TYPICAL SMALL GATE ELEVATION VIEW
1 1/2" = 1'-0"

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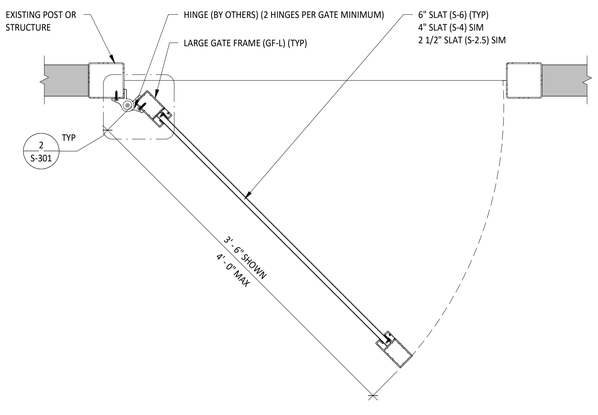
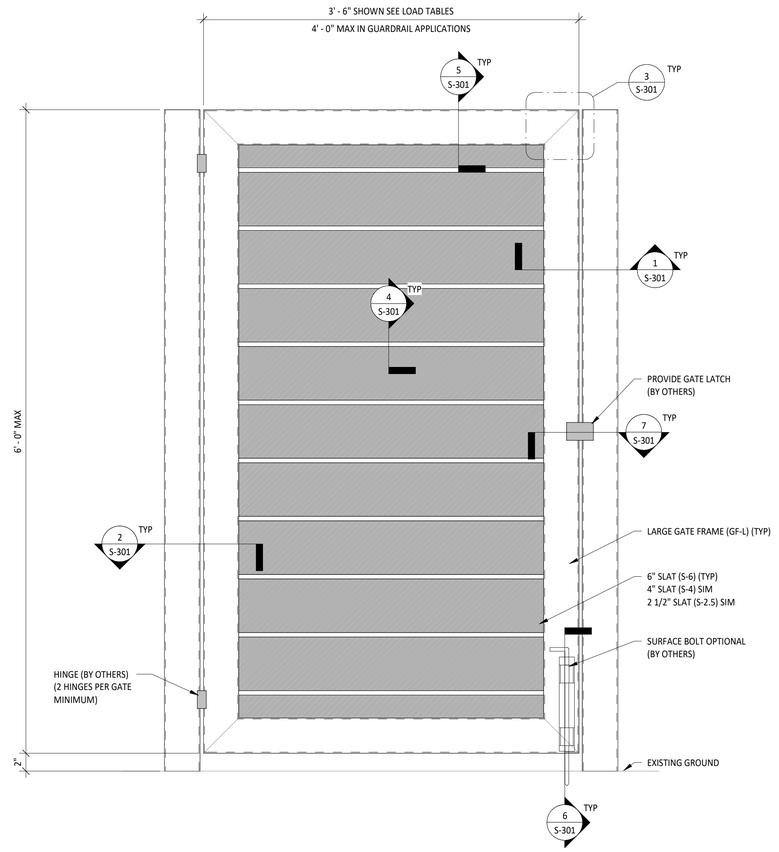


1 TYPICAL LARGE GATE PLAN VIEW
1 1/2" = 1'-0"



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

LARGE GATE FRAME (GF-L) LOAD TABLE			
GATE HEIGHT 'H' (MAX)	GATE WIDTH 'W' (MAX)[1]	MAX DESIGN PRESSURE[2]	MAX WIND PRESSURE[3]
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

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 (S-6) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE[2]	MAX WIND PRESSURE[3]
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 (S-4) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE[2]	MAX WIND PRESSURE[3]
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.
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2 1/2" SLAT (S-2.5) LOAD TABLE		
SLAT SPAN 'W' (MAX)	MAX DESIGN PRESSURE[2]	MAX WIND PRESSURE[3]
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.
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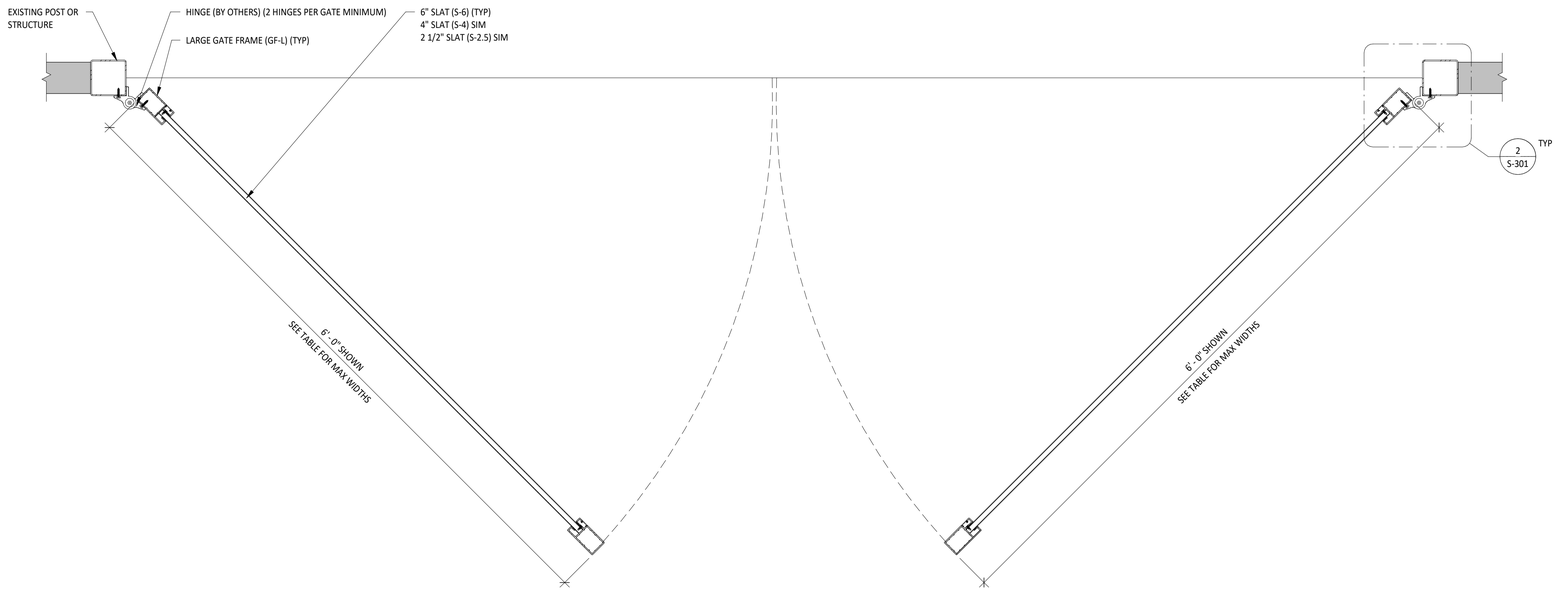
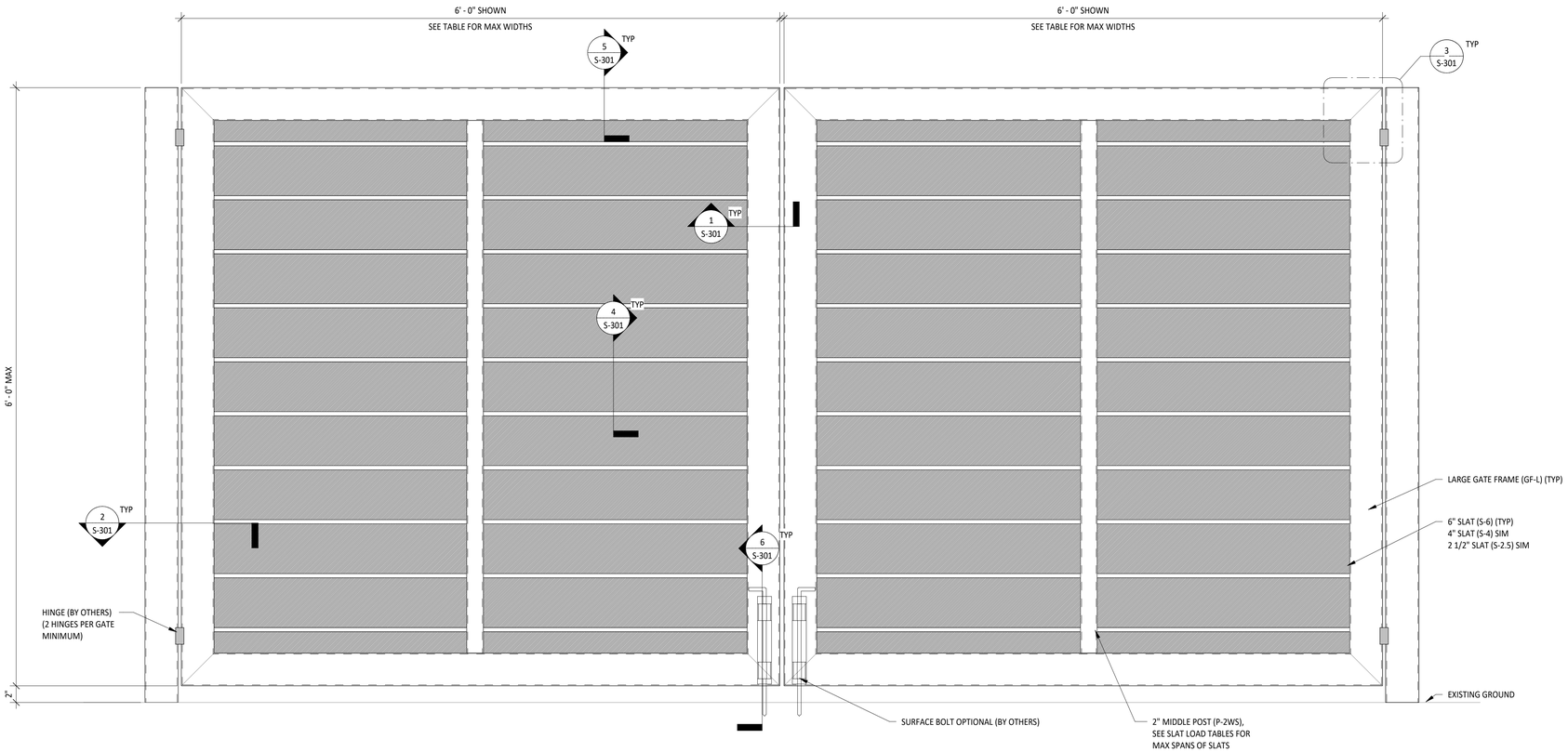


1 TYPICAL LARGE DOUBLE GATE PLAN VIEW
1 1/2" = 1'-0"



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

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PREPARED FOR:
PARALLEL
ARCHITECTURAL PRODUCTS

ISSUED FOR:
REFERENCE

ISSUED DATE:
07/09/2025

PLAN REVISIONS

NO.	DATE	DESCRIPTION

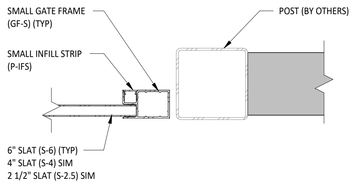
PROJECT NAME:
PARALLEL ARCHITECTURAL PRODUCTS
TYPICAL PEDESTRIAN GATE DETAILS

PROJECT LOCATION:
PER PROJECT SPECIFICATIONS

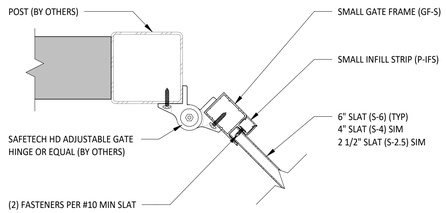
SHEET NAME:
LARGE DOUBLE GATE PLAN & ELEVATION

SEAL & SIGNATURE

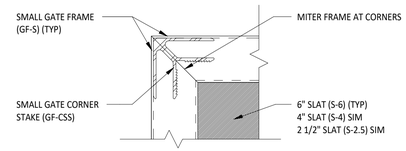
PROJECT NO: 20240131
DRAWN BY: CJS
CHECKED BY: DSG
SHEET NO: S-102
PAGE NO: 5 OF 7



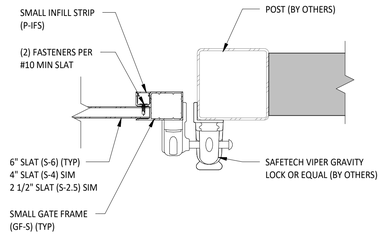
1 TYPICAL SMALL GATE EDGE DETAIL
3" = 1'-0"



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



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



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

5 SMALL GATE SLAT CONNECTION DETAIL
3" = 1'-0"

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

7 GATE TOP CONNECTION DETAIL (BOTTOM SIMILAR)
3" = 1'-0"

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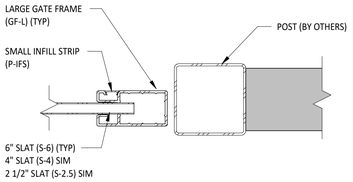
TYPICAL PEDESTRIAN GATE DETAILS

PROJECT LOCATION:
PER PROJECT SPECIFICATIONS

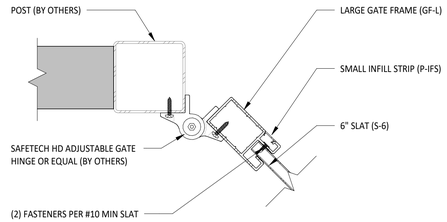
SHEET NAME:
SMALL GATE TYPICAL DETAILS

SEAL & SIGNATURE

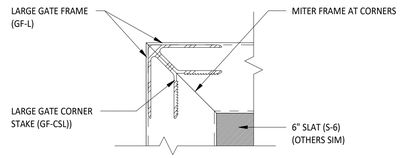
PROJECT NO: 20240131
DRAWN BY: CJS
CHECKED BY: DSG
SHEET NO: S-300
PAGE NO: 6 OF 7



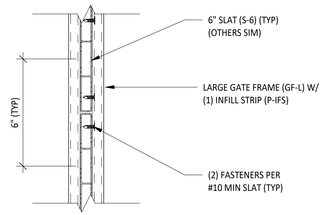
1 TYPICAL LARGE GATE EDGE DETAIL
3" = 1'-0"



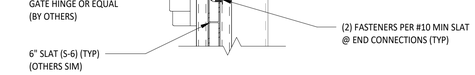
2 LARGE GATE HINGE CONNECTION DETAIL
3" = 1'-0"



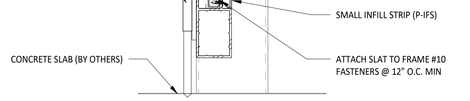
3 LARGE GATE FRAME CORNER DETAIL
3" = 1'-0"



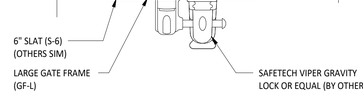
4 LARGE GATE SLAT CONNECTION DETAIL
3" = 1'-0"



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



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



7 LARGE GATE LATCH CONNECTION DETAIL
3" = 1'-0"

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LARGE GATE TYPICAL DETAILS

SEAL & SIGNATURE

PROJECT NO: 20240131
DRAWN BY: CJS
CHECKED BY: DSG
SHEET NO: S-301
PAGE NO: 7 OF 7