All structural details for the installation of this roll-up gate must be incorporated into the plans and stamped by the Engineer of record not just as a part of this calculation documents.

City of Puyallup Development & Permitting Services ISSUED PERMIT				
Building	Planning			
Engineering	Public Works			
Fire	Traffic			



Project:

UPS ROLL UP GATE

Location

4227 S MERIDIAN STE, PUYALLUP, WA 98373

PERMIT SUBMITTAL



PRCTI20220017

City of Puyallup Development & Permitting Services ISSUED PERMIT				
Building	Planning			
Engineering	Public Works			
Fire OF W	Traffic			



5816 SW Gillcrest ct Portland, OR 97221 Ph: 503.896.7712

SKETCH





City of Puyallup Development & Permitting Services ISSUED PERMIT		
Building	Planning	
Engineering	Public Works	
Fire OF W	Traffic	

CALCULATIONS

KG	Project:		City of F	Puyallup ermitting Services	Sheet #
5816 SW GILLCREST CT.	Location:		ISSUED Building	PERMIT	
5816 SW GILLCREST CT. PORTLAND, OR 97221 TEL: 503.896.7712	Client:		Engineering	Public Works	Job #
	Date:	By:	Fire OF V	Traffic	

5

PROJECT INFORMATION

UPS GATE SUPPORT

ADDRESS: 4227 S MERIDIAN STE PUYALLUP, WA 98373

SEISMIC: 51 = 1,000 I=1.0

CODE IBC 2018

ΔΤC

Search Information

Address:	4227 S Meridian, Puyallup, WA 98373, USA
Coordinates:	47.1515005, -122.2923182
Elevation:	442 ft
Timestamp:	2022-01-14T22:22:29.330Z
Hazard Type:	Seismic
Reference Document:	ASCE7-16
Risk Category:	II
Site Class:	D-default

Hazards by Location



City of Puyallup Development & Permitting Services ISSUED PERMIT			
Building	Planning		
Engineering	Public Works		
Fire	Traffic		

Basic Parameters

Name	Value	Description
SS	1.26	MCE _R ground motion (period=0.2s)
S ₁	0.435	MCE _R ground motion (period=1.0s)
S _{MS}	1.512	Site-modified spectral acceleration value
S _{M1}	* null	Site-modified spectral acceleration value
S _{DS}	1.008	Numeric seismic design value at 0.2s SA
S _{D1}	* null	Numeric seismic design value at 1.0s SA

* See Section 11.4.8

Additional Information

Name	Value	Description
SDC	* null	Seismic design category
Fa	1.2	Site amplification factor at 0.2s
Fv	* null	Site amplification factor at 1.0s
CR _S	0.914	Coefficient of risk (0.2s)
CR ₁	0.898	Coefficient of risk (1.0s)
PGA	0.5	MCE _G peak ground acceleration
F _{PGA}	1.2	Site amplification factor at PGA
PGA _M	0.6	Site modified peak ground acceleration

1	/1	4	122	2.22	PM	
	/ 1		~~,	<u> </u>	1 1 1 1	

ΤL	6	Long-period transition period (s)
SsRT	1.26	Probabilistic risk-targeted ground motion (0.2s)
SsUH	1.379	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.435	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.484	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)



* See Section 11.4.8

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

ATC Hazards by Location

Disclaimer

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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				8
KC	Project:		City of Puyallup	Sheet #
consultants	Location:		ISSUED PERMIT	
5816 SW GILLCREST CT. PORTLAND, OR 97221	Client:		Engineering Public Works	Job #
	Date:	By:	Fire Traffic	
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$wt - z_{0}c$ $F_{1} = 0$	3½ #	$F_{p} \approx 6$	° # 40 <u>*</u>	
i. R = [[(~ 72	() ² +(40) ²] ²	UH1 P294	STRUT	BM
C.45° BRACK $\frac{160^{4}}{\cos 45^{\circ}}$ MAX THRUE FOD / STRUT $F_{V} = 40^{4}$	E UILE : 85 [#] F TO	Fe/2 Fr		37

			3
	Project:	City of Puyallup S	heet #
consultants		Development & Permitting Services	
5816 SW GILLCREST CT.	Location:	Building Planning	
PORTLAND, OR 97221 TEL: 503.896.7712	Client:	Engineering Public Works JC	ob #
		Fire Traffic	
	Date: By:	A STAND	
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City of Puyallup Development & Permitting Services ISSUED PERMIT					
Building	Planning				
Engineering	Public Works				
Fire OF W	Traffic				

REFERENCE

ন্থি **UNISTRU**

P2494 R-L THRU P2499 R-L



Material : 12 Gauge Steel. R - As shown; L - Opposite hand

	Channel		Uniform Design Loa					
	Part No.	Gauge	luge Lbs					
	P1000	12	300 (1.33)				
	P1100	14	250 (1.11)					
	P2000	16	200 (.89)					
Safety Factor - 21/2								
City of Puyallup Development & Permitting Services ISSUED PERMIT								
Building		Plan	Planning					
Engineering		Public	Works					
	Fire	SHUTT	Traffic					

Gauge

12

14

16

Uniform

Design Load

Lbs (kN)

300 (1.33)

250 (1.11)

200 (.89)

Part Number	Stamped Ident. No.	"A" In <i>(mm</i>)	"B" In <i>(mm</i>)	Wt/100 pcs Lbs <i>(kg)</i>
P2494 R-L	121895 R-L	12 305	3 ⁷ ⁄16 87	152 68.9
P2495 R-L	121896 R-L	14 356	3 ¹⁵ /16	173 78.5
P2496 R-L	121897 R-L	16 406	4 ⁷ /16 11.3	223 101.2
P2497 R-L	121898 R-L	18 457	4 ¹⁵ /16 125	266 120.7
P2498 R-L	121899 R-L	20 508	5 ⁷ /16 138	308 139.7
P2499 R-L	121900 R-L	22 559	5 ¹⁵ ⁄16 151	355 161.0

P2500 R-L THRU P2503 R-L



Part Number	Stamped Ident. No.	"A" In <i>(mm</i>)	"B" In <i>(mm</i>)	Wt/100 pcs Lbs (kg)
D0500 D I	404004 D I	24	67/16	400
P2500 R-L	121901 R-L	610	164	181.4
	121902 R-L	26	6 ¹⁵ /16	445
P2501 R-L		660	176	201.8
D0500 D I	101002 D I	28	71/16	493
P2502 R-L 121903	121903 R-L	711	189	223.6
P2503 R-L 121904 R-L	30	7 ¹⁵ /16	545	
	121904 R-L	762	202	247.2

R - As shown; L - Opposite hand

P2944, P2945, P2946, P2947

$\begin{array}{c} 2"\\ 11/16"\\ (17)\\ (17)\\ \end{array} \begin{array}{c} 51)\\ 3/6"\\ (10) \end{array}$	Part Number	"A" In <i>(mm</i>)	Wt/100 pcs Lbs (kg)	Uniform Load* Lbs <i>(kN</i>)
9/16"	D2044	6	185	1200
	F 2344	152	84	5.34
	D2045	12	293	600
	F2940	305	133	2.67
	D2046	18	401	400
	F2940	457	182	1.78
1/16"	D2047	24	509	300
(17)	P2947	610	231	1.33

P2542 THRU P2546

		Part	"A"	Wt/100 pcs	Vertical Channel		Uniform Design Load
O 1		Number	In <i>(mm</i>)	Lbs (kg)	Part No.	Gauge	Lbs (kN)
$134_{6"}$ 2" (51)			10	E00	P1000	12	2,000 (8.90)
(21)		P2542	1Z 205	502	P1100	14	1,400 (6.23)
9/16" A			300	220	P2000	16	1,000 (4.45)
		P2543	3 18 457	692 314	P1000	12	1,300 (5.78)
					P1100	14	900 (4.00)
45%"			101	011	P2000	16	650 (2.89)
6¼" (117)		P2544	24	882 400	P1000	12	1,000 (4.45)
(159)			610		P1100	14	700 (3.11)
			010		P2000	16	500 (2.22)
361 01001			30	1 072	P1000	12	800 (3.56)
¹³ /16" (10)	P2545	762	1,072	P1100	14	560 (2.49)	
(21) (10)			102	700	P2000	16	400 (1.78)
	Safety Factor - 2 ¹ / ₂ P2546	P2546 36 914	6 36	1,262	P1000	12	650 (2.89)
					P1100	14	450 (2.00)
			012	P2000	16	320 (1.42)	

Standard Dimensions for 15/8" (41mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 3/6" (14mm); Hole Spacing - From End: 13/6" (21mm); Hole Spacing - On Center: 17/6" (48mm); Width: 15/6" (41mm); Thickness: 1/4" (6mm) Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

Electrical Fittings

Concrete Inserts

1¹/4" Framing Svstem

^{13/16}" Framing System

Fiberglass System

Special Metals

PrimeAngle System

Product Index



General Fittings

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