



Members

Actual members

Right brace	:	No
Left brace	:	Yes

Column

General

Section	:	W14X68
Material	:	STEEL
Column orientation	:	Transversal
Transversal offset	:	0 in
Include opposite stiffener	:	No

Left brace

General

Section	:	W12X26(T)
Material	:	STEEL
Brace slope angle (degrees)	:	49.399
Brace rotation (degrees)	:	90°
Double brace	:	No

Additional geometric data

wpx: WP horizontal displacement	:	0 in
wpy: WP vertical displacement	:	0 in
Le: Minimum distance to other members	:	7 in
L1: Left distance	:	0.5 in
L2: Right distance	:	0.5 in

Base plate

Base plate

Position on the support	:	Center
N: Longitudinal dimension	:	18 in
B: Transversal dimension	:	18 in
Thickness	:	1.5 in
Material	:	A572 Gr50
Column weld	:	E70XX
Outer welds flanges only	:	No
D: Column weld size (1/16 in)	:	6
Override A2/A1 ratio	:	No
Include shear lug	:	No

Support

With pedestal	:	Yes
Longitudinal dimension (pedestal)	:	36 in
Transversal dimension (pedestal)	:	36 in
Thickness	:	48 in
Material	:	C 4-60
Include grouting	:	Yes

Grout thickness	:	1.5 in
<u>Anchor</u>		
Anchor position	:	Longitudinal position
Rows number per side	:	1
Anchors per row	:	2
Longitudinal edge distance on the plate	:	5.5 in
Transverse edge distance on the plate	:	5.5 in
Anchor type	:	Headed
Head type	:	Hexagonal
Include lock nut	:	No
Anchor	:	1 1/2"
Effective embedment depth	:	20 in
Total length	:	24.98 in
Material	:	F1554 Gr36
Fy	:	36 kip/in2
Fu	:	58 kip/in2
Cracked concrete	:	Yes
Brittle steel	:	No
Anchors welded to base plate	:	No
<u>Anchor reinforcement</u>		
Type of reinforcement	:	Primary
Tension reinforcement	:	Yes
Tension bar size	:	no. 6
Tension bar grade	:	60 kip/in2
Tension number of bars	:	12
Shear reinforcement	:	Yes
Shear bar size	:	no. 4
Shear bar grade	:	60 kip/in2
Shear number of bars in major axis direction	:	4
Shear number of bars in minor axis direction	:	4

Interfaces

Left brace - Gusset

<u>General</u>		
tp: Thickness	:	0.375 in
Material	:	A572 Gr50
LV: Length on column	:	15 in
LH: Length over plate	:	8 in

Left brace - Gusset/Brace connection

<u>General</u>		
Connection type	:	Bolted
Bolts	:	3/4" A325 N
Hole type	:	Standard (STD)
Hole type on gusset	:	Standard (STD)
nc: Bolt columns	:	2
nr: Rows of Bolts	:	2
s: Pitch - longitudinal center-to-center spacing	:	3 in
g: Gage - transverse center-to-center spacing	:	3 in
Leh: Longitudinal distance to edge	:	1.5 in

Left brace - Gusset/Column connection

<u>General</u>		
Connection type to column	:	Directly welded
<u>Directly welded</u>		
Column weld	:	E70XX
D: Weld size to column (1/16 in)	:	5

Left brace - Gusset/Base plate connection

<u>Directly welded</u>		
Base plate weld	:	E70XX
D: Base plate weld size (1/16 in)	:	5