| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| | | | | | |

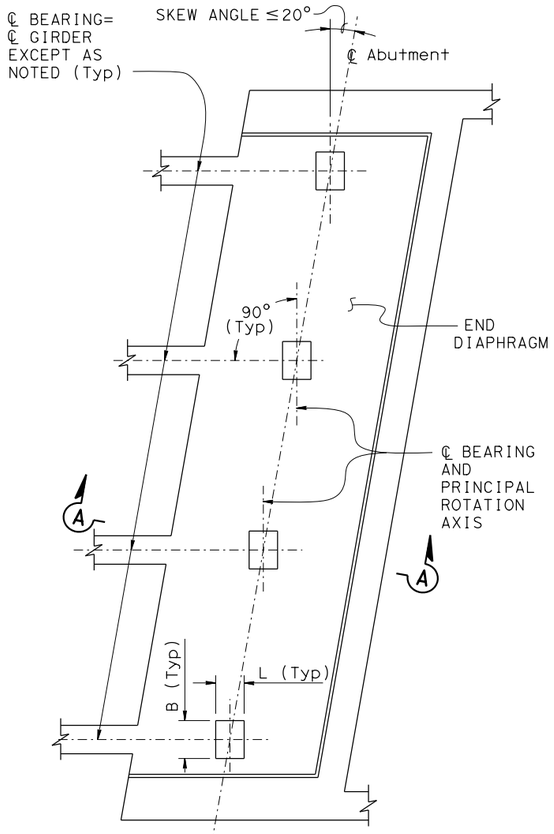
REGISTERED CIVIL ENGINEER _____ DATE _____

PLANS APPROVAL DATE _____

REGISTERED PROFESSIONAL ENGINEER No. _____ Exp. _____ CIVIL STATE OF CALIFORNIA

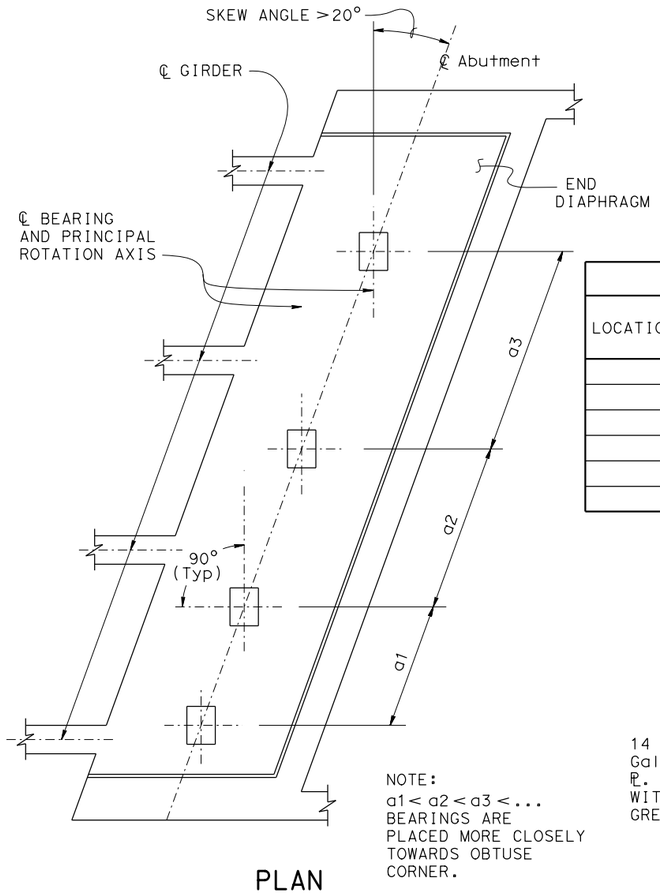
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.*

*The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.*




PLAN

## BEARING AT GIRDER CENTERLINE



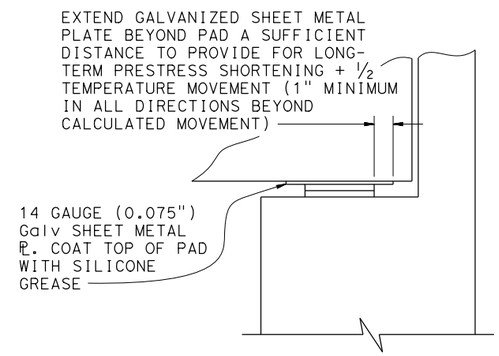

NOTE:
a1 < a2 < a3 < ...
BEARINGS ARE PLACED MORE CLOSELY TOWARDS OBTUSE CORNER.

PLAN

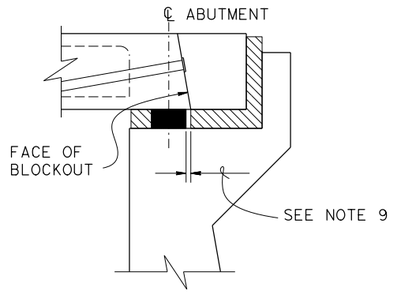
## BEARING NOT AT GIRDER CENTERLINE

## STEEL REINFORCED BEARING TABLE

| LOCATION | MAXIMUM VERTICAL LOAD (kips) (SEE NOTE 7) | MINIMUM VERTICAL LOAD (kips) (SEE NOTE 8) | MAXIMUM HORIZONTAL DISPLACEMENT (in) | B(in) | L(in) | ELASTOMER ONLY THICKNESS $T_r$(in) | TOTAL BEARING THICKNESS (in) | SLIDING YES/NO |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

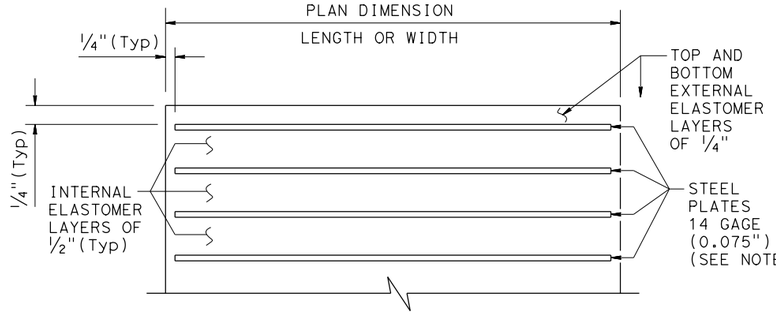



## SLIDING BEARING DETAIL

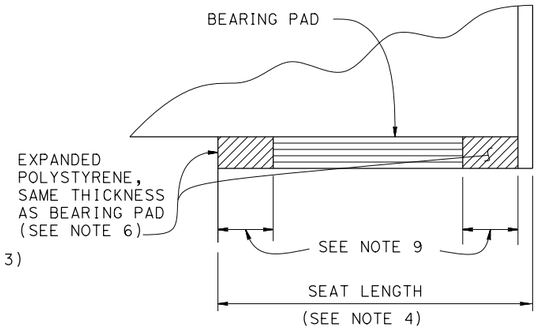



## SECTION A-A

| DESIGN AND ACTUAL THICKNESS OF ELASTOMERIC BEARINGS | | | |
|---|---|---|---|
| DESIGN THICKNESS (in) | NUMBER OF 1/2" LAYERS | NUMBER OF STEEL PLATES (14 gauge) | ACTUAL THICKNESS (in) |
| 1.0 | 2 | 2 | 1.15 |
| 1.5 | 3 | 3 | 1.73 |
| 2.0 | 4 | 4 | 2.30 |
| 2.5 | 5 | 5 | 2.88 |
| 3.0 | 6 | 6 | 3.45 |
| 3.5 | 7 | 7 | 4.03 |
| 4.0 | 8 | 8 | 4.60 |
| 4.5 | 9 | 9 | 5.18 |
| 5.0 | 10 | 10 | 5.75 |
| 5.5 | 11 | 11 | 6.33 |
| 6.0 | 12 | 12 | 6.90 |




## ELASTOMERIC BEARING DETAIL




## BEARING PLACEMENT DETAIL

NOTES:

1. Bearing pads must be set level
2. No anchor rods through elastomeric bearings
3. All edges of the bearing steel plates must be ground or otherwise treated so that no sharp edges remain
4. Seat length normal to the center line of the bearing must not be less than 30 inches
5. Maximum horizontal bearing dimension is 30 inches
6. Remove expanded polystyrene from at least two bearing sides
7. Maximum unfactored vertical load per bearing
8. Minimum unfactored vertical load per bearing
9. Minimum edge distance must be equal to the actual bearing thickness or 3 inches whichever is greater
10. The sliding bearing detail must not be used in precast or steel girders

NO SCALE

BRIDGE STANDARD DETAILS

| xs9-030 | October 2018 | The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California |
|---|---|---|
| FILE NO. | APPROVAL DATE | |

Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.

POST MILE

# STEEL REINFORCED ELASTOMERIC BEARINGS

FILE => xs9-030.dgn
USERNAME => s114926 TIME PLOTTED => 15:32 DATE PLOTTED => 11-OCT-2018

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT:
PROJECT NUMBER & PHASE: CONTRACT NO.:

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | | SHEET | OF |
|---|---|---|---|---|---|
| 11-6-13 | 9-21-18 | 10-2-18 | 8-23-18 | 1 | 1 |