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PRE-CHECKED SET NAME

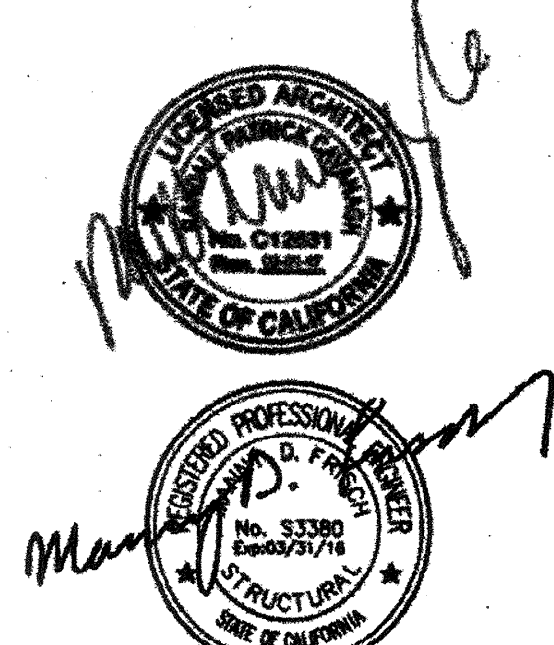
24' x 40' THRU 120' x 40'
2:12 PITCHED ROOF

SITE SPECIFIC PROJECT NAME

SHEET TITLE

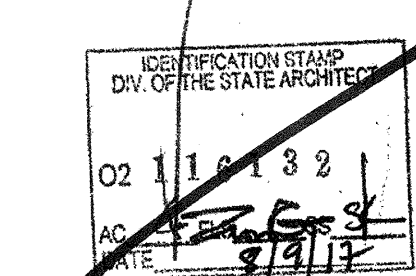
STEEL MEMBER PROPERTIES

MANUFACTURER PROFESSIONAL OF RECORD ON PC

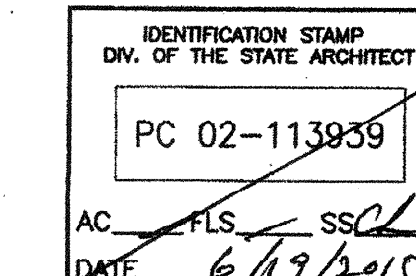


AGENCY TRACKING NO. 63321-241
FILE NO. 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-118380
AC FLS SS CL
DATE **OCT 25 2017**

PROJECT SPECIFIC STATE AGENCY APPROVAL



ORIGINAL PC STATE AGENCY APPROVAL



PRE-CHECK (PC) DOCUMENT - CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REVISIONS

DRAWN BY: _____
SCALE: AS NOTED
DATE: _____

SHEET NUMBER

S0.0

6-7/8" x 2-3/8" x 14 GA. FLOOR JOIST (1)
ASTM A1011 GRADE 45(2)
Fy = 45KSI

A = 0.89 IN²
Sx = 1.85 IN³
Ix = 6.37 IN⁴
t = .068 IN.

6-7/8"x3" X 12 GA. FLOOR JOIST(1)
ASTM A1011 GRADE 45(2)
Fy = 45KSI(2)

A = 1.38 IN²
Sx = 2.97 IN³
Ix = 10.20 IN⁴
t = .097 IN.

NOTES:
1. MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH OPTIONAL RUST INHIBITIVE COATING.
2. STEEL GRADE 50 (Fy=50KSI) AT STRUCTO-CRETE FLOOR OPTION

10 GA. ROOF PURLIN
ASTM = A1011
GRADE = 36
Fy = 36ksi
A = 1.30 IN²
Sx = 1.49 IN³
Ix = 2.60 IN⁴
t = 0.118 IN. MIN.

12 GA. ROOF PURLIN
ASTM = A1011
GRADE = 36
Fy = 36ksi
A = 1.14 IN²
Sx = 1.50 IN³
Ix = 3.00 IN⁴
t = 0.097 IN. MIN.

14 GA. ROOF PURLIN
ASTM = A1011
GRADE = 36
Fy = 36ksi
A = 0.89 IN²
Sx = 1.65 IN³
Ix = 4.95 IN⁴
t = 0.068 IN. MIN.

NOTE: MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH OPTIONAL RUST INHIBITIVE COATING.

NOT USED

HSS 4x4x5/16 COLUMN
ASTM = A500
GRADE = 45
Fy = 46ksi

A = 4.10 IN²
Sx = 4.57 IN³
Zx = 5.59 IN³
Ix = 9.14 IN⁴
t = .3125 IN.

HSS 6x4x5/16 COLUMN
ASTM = A500
GRADE = 45
Fy = 46ksi

A = 5.26 IN²
Sx = 9.27 IN³
Zx = 10.30 IN³
Ix = 24.80 IN⁴
t = .3125 IN.

Sy = 6.68 IN³
Zy = 7.77 IN³
Iy = 13.2 IN⁴
ly = 13.2 IN.

14 GA. FORMED SOFFIT CEE
ASTM = A1011
GRADE = 36
Fy = 36ksi
A = 0.97 IN²
Sx = 1.78 IN³
Ix = 6.87 IN⁴
t = 0.0713 IN.

NOTE: MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH OPTIONAL RUST INHIBITIVE COATING.

10 GA. TRANSVERSE BEAM
ASTM = A1011
GRADE = 50
Fy = 50ksi
t = 0.135 IN.

	14"
A (IN ²)	3.09
Sx MIN. (IN ³)	12.41
Ix MIN. (IN ⁴)	86.88

NOTE: MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH RUST INHIBITIVE COATING.

C 7x9.8 FLOOR BEAM
ASTM = A36
GRADE = 36
Fy = 36 ksi

A = 2.87 IN²
Sx = 6.07 IN³
Zx = 7.19 IN³
Ix = 21.20 IN⁴
t = .1875 IN.

C9x13.4 FLOOR BEAM
ASTM = A36 GRADE 36
OR
ASTM = A572 GRADE 50

A = 3.94 IN²
Sx = 10.60 IN³
Zx = 12.60 IN³
Ix = 47.80 IN⁴
t = .25 IN.

C 10x15.3 FLOOR BEAM
ASTM = A36
GRADE = 36
Fy = 36 ksi

A = 4.48 IN²
Sx = 13.50 IN³
Zx = 15.90 IN³
Ix = 67.30 IN⁴
t = .25 IN.

20GA ROOF PAN PROPERTIES
(26 GA. MAY BE USED W/PLYWOOD SHEATHING)

ASTM = A1011
GRADE = 36
Fy = 36ksi

w/ GALVANIZATION
t=0.0356 IN. MIN.

Sx(t) = 0.364 IN³
Sx(b) = 1.372 IN³
Ix = 0.863 IN⁴

w/o GALVANIZATION
t=0.0329 IN. MIN.

Sx(t) = 0.330 IN³
Sx(b) = 0.305 IN³
Ix = 0.476 IN⁴
A = 0.84 IN²

NOTE: MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH OPTIONAL RUST INHIBITIVE COATING.

12 GA. TRANSVERSE BEAM
ASTM = A1011
GRADE = 36
Fy = 36ksi
t = 0.1017 IN.

	14"	18"
A (IN ²)	2.36	2.76
Sx MIN. (IN ³)	9.57	13.60
Ix MIN. (IN ⁴)	67.02	122.44

W5x16 FLOOR JOIST
ASTM = A36
GRADE = 36
Fy = 36ksi

A = 4.71 IN²
Sx = 8.55 IN³
Zx = 9.63 IN³
Ix = 21.4 IN⁴
t = .25 IN.

HOT ROLLED FLOOR JOIST PROPERTIES

10 GA. LONGITUDINAL BEAM
ASTM = A1011
GRADE = 50
Fy = 50ksi
t = 0.135 IN.

	18"
A (IN ²)	3.53
Sx MIN. (IN ³)	16.50
Ix MIN. (IN ⁴)	152.26

LIGHT GAUGE ROOF BEAM PROPERTIES

08-11338-241-001 10/25/17 10:00 AM 10/25/17 10:00 AM