

[The document contains detailed instructions and specifications related to a construction project, including material requirements, structural considerations, load distribution, and installation procedures. Specific sections and subsections cover topics such as design professionals, contractor responsibilities, material protection, and structural installation details.]

**General Requirements**

- **Material Protection:** All materials shall be protected from weather and damage during storage, transportation, and installation.
- **Contractor Responsibilities:** The contractor shall ensure that all work is performed in accordance with the project specifications and that all required permits and approvals are obtained.
- **Structural Installation:** All structural components shall be installed in accordance with the latest project specifications and structural design drawings.

**Structural Reinforcement**

- **Steel Connections:** All steel connections shall be made using properly sized bolts with washers and nuts, in accordance with the latest project specifications.
- **Concrete:** Concrete must be placed and compacted according to the latest project specifications, with proper curing procedures.

**Design Professional Considerations**

- **Design professionals** shall ensure that all structural elements are designed to meet the project's load-bearing requirements.
- **Coordination:** All design professionals shall coordinate their efforts to ensure that the project's structural integrity is maintained.

**Contractor Responsibilities**

- **Safety:** The contractor shall ensure that all work is performed in a safe manner, with proper safety equipment and procedures.
- **Quality Control:** The contractor shall perform quality control checks to ensure that all work is performed to the project's specifications.

**Materials Protection**

- **Temporary Protection:** Temporary protection shall be provided to protect all materials and structural components from damage.
- **Long-Term Protection:** Long-term protection shall be provided to protect all materials and structural components from weather and environmental effects.

**Construction Notes**

- **Drawings and Specifications:** The latest drawings and specifications shall be used to guide all construction activities.
- **Site Conditions:** All site conditions shall be identified and addressed before construction begins.

**References**

- **Project Specifications:** All project specifications shall be referenced and followed throughout the construction process.
- **Construction Documents:** All construction documents shall be reviewed and approved before construction begins.

**Compliance**

- **Code Compliance:** All work shall be performed in accordance with all applicable codes and standards.
- **Quality Assurance:** Quality assurance measures shall be implemented to ensure the project's success.

**Additional Information**

- **Contact Information:** For more information, please contact [Contact Information Here].
- **Project Status:** The project is currently [Status].
**Table of Contents**

- General Structural Notes
  - Handrail Requirements
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  - Anchor Requirements
  - Steel Deck Requirements
  - Brick Requirements
  - Expansion Anchor Requirements
  - Concrete Slab Requirements
  - General Architectural Details

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### Handrail Requirements

- **Weld Requirements**
- **Anchor Requirements**
- **Steel Deck Requirements**
- **Brick Requirements**
- **Expansion Anchor Requirements**
- **Concrete Slab Requirements**
- **General Architectural Details**

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**General Notes**

This document contains comprehensive guidelines for the installation of handrails, welds, anchors, steel decks, bricks, expansion anchors, and concrete slabs, as well as general architectural details. It is designed to ensure the structural integrity and safety of the construction project. The notes include detailed specifications, materials requirements, and installation procedures to guide the construction team.

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**Handrail Requirements**

- **Weld Requirements**
- **Anchor Requirements**
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**Weld Requirements**

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**Anchor Requirements**

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**Concrete Slab Requirements**

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**General Architectural Details**

- **Handrail Requirements**
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**Steel Deck Requirements**

- **Brick Requirements**
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**Brick Requirements**

- **Expansion Anchor Requirements**
- **Concrete Slab Requirements**
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**Expansion Anchor Requirements**

- **Concrete Slab Requirements**
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**Concrete Slab Requirements**

- **General Architectural Details**

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**General Architectural Details**

- **Handrail Requirements**
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This comprehensive document is intended for use by architects, engineers, and construction managers to ensure that all components of the project are installed in accordance with the latest standards and regulations. It includes detailed specifications for materials, installation procedures, and quality control measures to guarantee a safe and functional end result.
ROOF FRAMING PLAN

1. Roof framing notes on sheet 12 of 12.
2. Roof framing plans notes on sheet 12; for information not noted.
3. Normal roof line and roof slope shown.
4. Top of steel railing and pilaster above meeting room ceiling line.
5. Roof is to be field Applied.
6. All roof top areas to be finished, sealed, and heat sealed.
7. Roof framing and roof openings shown in plan are not complete or to scale details.
8. For complete information, refer to shop detail.
9. Roof framing plan illustrates the location of structural support beams and columns.

THORNTON TOMASETTI

SAN JOSE CITY COLLEGE

PHYSICAL EDUCATION BUILDING AND WELLNESS CENTER

SAN JOSE, CALIFORNIA

SHEET NO: S2.03

CONSULTANT

ARCHITECT'S STAMP

APPROVAL

ARCHITECTURE + DESIGN

SAN JOSE, CA 95113

T 408.299.6000 F 408.299.6661

S2.03 SUBMITTAL
1. SEE GENERAL NOTES ON SHEET S1.00 TO S1.02

2. DENOTES PANEL DESIGNATION "X", SEE

3. ALL PANELS ARE VIEWED FROM INSIDE OF BUILDING U.O. N. PANELS

4. SEE REINFORCING SCHEDULE AND DETAILS ON SHEET S4. 10.

5. VERIFY ALL OPENING DIMENSIONS WITH ARCH & MEP

6. 6. VERIFY ALL OPENING DIMENSIONS WITH ARCH & MEP

7. 4. SEE REINFORCING SCHEDULE AND DETAILS ON SHEET S4. 10.

8. 3. ALL PANELS ARE VIEWED FROM INSIDE OF BUILDING U.O. N. PANELS

9. FOUNDATION PLANS FOR PANEL LOCATION. SEE 4/S5.10 FOR SCHED.

10. BOTTOM OF PANEL OCCURS 1½ ABOVE TOP OF FOOTING T O ALLOW FOR GROUT

11. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF WALL PANELS FOR ERECTION

12. IN ADDITION TO REINFORCEMENT SHOWN AND NOTED, THE CONTRACTOR SHALL

13. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF WALL PANELS FOR ERECTION

14. SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO PANEL

15. SEE ARCHITECTURAL & MEP DRAWINGS FOR ADDITIONAL WALL PENETRATION. THE

16. AVOID PLACEMENT OF PANEL POURS OVER SLAB CONTROL JOINTS AND COLUMN

17. ALL EMBEDS, PLATES, TUBES, ETC, WHICH WILL BE EXPOSED TO WEATHER SHALL BE

18. PROVIDE ADDITIONAL REINFORCEMENT, ANCHORAGES, INSERTS, LIFTING

19. DESIGNS OF WALL PANELS FOR ERECTION SHALL BE PREPARED BY A LICENSED

20. THE COMPLETED STRUCTURE AS DETAILED IN THESE

21. 1/8" = 1'-0"

22. 4' - 4 1/2"

23. 3' - 7 1/2"

24. 6' - 0"

25. 0"

26. 4' - 0"

27. 15' - 0"

28. 8' - 0"

29. 30' - 9"
SAN JOSE CITY COLLEGE

PHYSICAL EDUCATION BUILDING AND WELLNESS CENTER
SAN JOSE, CALIFORNIA

CONCRETE PANEL ELEVATIONS

1. SEE NOTES ON SHEET S3.01
1. REBAR OFFSET, LAP SPlice, DEVELOPMENT LENGTH, AND BUTT SPlice

<table>
<thead>
<tr>
<th>MINIMUM DEVELOPMENT LENGTH</th>
<th>MINIMUM LAP SPICE LENGTH</th>
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   **NOTES:**
   - Development lengths at wall are for normal weight concrete.
   - Development lengths in table is used to determine development length by 20%.

2. STANDARD HOOKS

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   - Development lengths in table is used to determine development length by 20%.

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NOT TO SCALE

PIE OR CONDUIT PENETRATION
THRU MIDDLE THIRD

PIPE OR CONDUIT PENETRATION
THRU MIDDLE THIRD

VERTICAL CONSTRUCTION JOINTS IN FOOTINGS

CONTINUOUS FOOTING INTERSECTIONS

MANDATORY MINIMUM FORMWORK AND
FOUNDATIONexcavation REQUIREMENTS

CONCRETE COLUMN

GRADE BEAM

NOTES:
1. PIPE OR CONDUIT PENETRATIONS MUST BE PLACED BELOW FOOTING LEVEL.
2. PIPE OR CONDUIT PENETRATIONS MUST BE CLEAR OF ALL REINFORCING.
3. PIPE OR CONDUIT PENETRATIONS MUST BE CLEAR OF ALL CONSTRUCTION JOINTS.
4. PIPE OR CONDUIT PENETRATIONS MUST BE CLEAR OF ALL VERTICAL CONSTRUCTION JOINTS.
5. CAULK SEAL GAP AT SLEEVE-TO-PIPE/CONDUIT INTERFACE ON EXTERIOR SIDE OF FOOTING.
6. Pipe or Conduit Penetration 2" Dia./3" CLR TYP.
7. Pipe or Conduit Penetration 4" Dia./6" CLR TYP.
8. Pipe or Conduit Penetration 6" Dia./8" CLR TYP.
9. Pipe or Conduit Penetration 8" Dia./10" CLR TYP.
10. Pipe or Conduit Penetration 10" Dia./12" CLR TYP.

NOTES:
1. Contractor shall be responsible for shoring or otherwise maintaining the sides of the excavation and trenches for pipe or conduit penetrations.
2. All pipes and conduits shall be buried by 12" at all times.
3. Shoring shall remain in place until all backfill is completed.
4. Backfill shall be placed in layers not to exceed 6" and shall be tamped after each layer.
5. Pipe or conduit penetrations 2" Dia./3" CLR TYP.
6. Pipe or conduit penetrations 4" Dia./6" CLR TYP.
7. Pipe or conduit penetrations 6" Dia./8" CLR TYP.
8. Pipe or conduit penetrations 8" Dia./10" CLR TYP.
9. Pipe or conduit penetrations 10" Dia./12" CLR TYP.

NOTES:
1. Pipes and conduits shall be placed below the level of the footing.
2. Pipes and conduits shall be placed at least 12" below the level of the footing.
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9. Pipes and conduits shall be placed at least 12" below the level of the footing.
NOTE:

USE THRD'D COUPLER AT HOOKED BARS.

MATCH SIZE AND MINIMUM WIDTH OF POUR

4" CLR @ EAST/WEST REINF

1

NOTE:

SCHEDULE.

TIES NOT SHOWN FOR

EXTERIOR FOOTING AT LOW GRADE

3"

T/SLAB

NOTE:

COORDINATE ELEV.

DENOTE APPROXIMATE

STEP IN BOTTOM OF

#5 DOWELS @ 12" OC

2'-0" MIN, MAINTAIN

3" MAX

#5 DOWELS @ 12" OC

TIES PER SCHEDULE

3" CLR

CL WALL & FTG

3" MAX

POUR STRIP

SLAB-ON-GRADE REINF

GROUT BED

REINF & THICKNESS

PER DRAWINGS

MAX

CLR

1' - 2 3/8"

PER SCHEDULE

SLAB ON GRADE

T/SLAB

NOTE:

WALL JAMB BEYOND "W" OR "B"

PER SCHEDULE

"W" OR "B"

SLAB & POUR STRIP REINF

#5 @ 12" OC E.W.

PER SCHEDULE

3" CLR

1 1/2" NON-SHRINK GROUT BED

REGION COVER OVER COLUMN, BASE PL

2 - #5 - -

BARS W D BOTTOM

8 - #9 8 - #9

6 - #9 6 - #9

3 - #6, EW, BOT

2 - #5 - -

CONCRETE PANEL INTERIOR FOOTING

A

T/FTG

B

T/SLAB

C

E

K

G

H

C

B

NOTE:

WALL DOWELS

PER SCHEDULE

2 1/4"

CLASS "B"

CL WALL & FTG

3" MAX

SPLICE

3" CLR

CL WALL & FTG

3" MAX

SPLICE

3" CLR

"D"

W

2.  WHERE CONTINUOUS FOOTING TERMINATES AT COLUMN FOOTING, EXTEND NOTES:

CF-8A 8'-0" 2'-6"

CF-6A 6'-0" 2'-6"

CF-6 6'-0" 2'-6"

CF-1 1'-6" 1'-6"

CONTRACTOR'S OPTION

NOTES:

WHERE CONTINUOUS FOOTING TERMINATES AT COLUMN FOOTING, EXTEND

NOTED SEE COLUMN FTG

PER PLAN

"W"

"W"

SLAB BLOCKOUT PER

PER SCHEDULE

THRU COL FTG

PER SCHED

PER PLAN

"W"

"W"

SLAB BLOCKOUT PER

PER SCHEDULE

CL COL & FTG

SLAB BLOCKOUT PER

PER SCHEDULE

CL COL & FTG

SLAB ON GRADE

T/SLAB

T/SLAB

FOOTING SCHEDULE

NO. ISSUE DATE

SAN JOSE CITY COLLEGE

PHYSICAL EDUCATION BUILDING AND WELLNESS CENTER

S4.02 - COLLEGE SAN JOSE, CALIFORNIA

CONSULTANT

PROJECT NO. S4.02

DATE: 01-12-2016

SHEET NO.

TYPICAL CONCRETE PANEL FOOTING DETAILS

S4.03

Thornton Tomasetti

San Francisco, CA 94108
T 415.385.6900 F 415.385.6901
1. GROUT BLOCKOUT POCKET SOLID W/ NON-SHRINK GROUT.

NOTES:

1. AT CONTRACTOR'S OPTION, SEE
2. ALIGN CENTERLINES OF WELD PL AND EMBED PL, 3/4" MAXIMUM

TYPICAL EDGE REINFORCING

HOLDOWN SCHEDULE

<table>
<thead>
<tr>
<th>Sheet</th>
<th>Column 1</th>
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ALTERNATE CONCRETE PANEL HOLDOWN

MISALIGNMENT CORRECTION DETAIL
NOTES: TYPICAL WALL BARS NOT SHOWN FOR CLARITY

CONCRETE PANEL PER PLAN

LEDGER CHANNEL PER PLAN

WF BEAM PER PLAN CENTERED ON WALL

5/8" PLATE x 9" HIGH

2" RETURNS.

TO EMBED PL, TYP
3/4" PLATE

#7 BAR 4'-0" LONG
3 #7 BARS

"Y" NUMBER OF "Z" SIZE BARS W/2 x CLASS B SPLICE LENGTH PER SCHED

1" PLATE 6" MAX

3/4" GAP TYP

1 1/2" WELD "X" DIMENSION PER SCHED

1/2" PLATE EACH FACE

LOCATION "W" WELD "X" DIMENSION "Y" OF "Z" BARS DIRECTION OF WF BEAM CENTERED ON WALL

F/3 1/2" 18" (8)#9 EAST-WEST

G/2.7 1/4" 10" (6)#9 NORTH-SOUTH

G.4/2.7 5/16" 10" (6)#6 NORTH-SOUTH

F/7 5/16" 10" (6)#7 EAST-WEST

F.2/8 1/4" 10" (6)#6 EAST-WEST

CJP, TYP 2 1/2" 7"

1/4 CJP, TYP (4) #6 BARS

3 SIDES TYP

CENTER, TYP (4) #6 BARS

MAX

3/4" GAP

3/8"x3" WIDE PL.

E.F. OF WEB TYP

2" TYP

1/4 PJP TYP
DEPRESSED BEAM, DEPRESSION < 3"

DEPRESSED BEAM

BEAM BEARING ON COLUMN (AXIAL ONLY)

COLUMN WEB PARALLEL TO BEAM WEB

COLUMN WEB PERPENDICULAR TO BEAM WEB

SPANDREL OR BRACED BEAM KICKER CONNECTION

FULL HEIGHT FITTED STIFFENER AT SPANDREL OR BRACED BEAM CONNECTION

DEEP BEAM BOTTOM FLANGE BRACING CONNECTION

HSS COLUMN ON WF BEAM

NOT TO SCALE

DEPRESSED BEAM, DEPRESSION < 3"

BEAM TO BEAM CONNECTION

SPANDREL OR BRACED BEAM CONNECTION

NOTE:

1. SEE PLAN FOR LOCATIONS OR SPACINGS

2. C = COLUMN AXIAL FORCE AS SHOWN AND FOR FORCES SHOWN ON PLAN

3. COLUMN BOLT POWER

4. 1/2" ACCIDENTAL ECCENTRICITY

5. SHEAR SHOWN ON PLAN

6. C * e/h

7. B COLUMN WEB PERPENDICULAR TO BEAM WEB

8. STIFFENER PLATES NS & FS

9. 1/2" MINIMUM THICKNESS OR AS REQUIRED BY

10. THICKNESS (1/2" MINIMUM) TO MATCH BEAM FLANGE

11. CAP PLATE THICKNESS

12. K det

13. 2 db MIN

14. SHEAR PL PER SCHED

15. S 3 SIDES

16. BOLTS PER SCHED

NOTE:

17. SEE BEAM SHEAR CONNECTION

18. COL WIDTH LESS THAN bf OF BM

19. BASE PL NOT REQD WHERE

20. PL 3/8 STIFFENER

21. 5/16

22. 1 1/2" TYP

23. 1 3/4" WHERE

24. db = 1"

25. STIFFENER PLATES EACH SIDE OF WEB

26. TYPICAL STEEL BEAM DETAILS

27. TYPICAL DETAILS AT TRANSVERSE

28. BEAM CONNECTION

29. 1 1/2"

30. 1 3/4" WHERE

31. 2" MAX

32. wf per flange

33. t per flange

34. NOT TO SCALE

35. DEPRESSED BEAM

36. DEPRESSION < 3"

37. NOT TO SCALE

38. DEPRESSED BEAM

39. NOT TO SCALE

40. BEAM BEARING ON COLUMN (AXIAL ONLY)

41. COLUMN WEB PARALLEL TO BEAM WEB

42. COLUMN WEB PERPENDICULAR TO BEAM WEB

43. TYPICAL DETAILS

44. COLUMN ABOVE

45. COLUMN BELOW

46. SPANDREL OR BRACED BEAM KICKER CONNECTION

47. FULL HEIGHT FITTED STIFFENER AT SPANDREL OR BRACED BEAM CONNECTION

48. BEAM TO BEAM CONNECTION

49. NOT TO SCALE

50. DEPRESSED BEAM
1. PROVIDE REINFORCEMENT AS NOTED FOR OPENING TYPE. SEE FRAMING PLANS FOR OPENING TYPE.
2. SEE STRUCTURAL DRAWINGS FOR QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS. CONSTRUCTION SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS.
3. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE STRUCTURAL ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR REVIEW BY THE ARCHITECT AND WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

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**BEAM WEB PENETRATION SCHEDULE**

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<th>OPENING TYPE</th>
<th>OPENING SIZE</th>
<th>SHEET</th>
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<tbody>
<tr>
<td>CIRCULAR PENETRATION</td>
<td>2' - 1 1/8&quot;</td>
<td>B1</td>
<td>8</td>
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<tr>
<td>CIRCULAR PENETRATION</td>
<td>1' - 6 3/8&quot;</td>
<td>B2</td>
<td>4</td>
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<tr>
<td>CIRCULAR PENETRATION</td>
<td>1' - 1 1/8&quot;</td>
<td>B3</td>
<td>4</td>
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<tr>
<td>RECTANGULAR PENETRATION</td>
<td>4&quot; x OPENING WIDTH</td>
<td>B4</td>
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<tr>
<td>RECTANGULAR PENETRATION</td>
<td>1 1/2&quot; TYPICAL</td>
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**EMBED PLATE SCHEDULE (SHEAR ONLY)**

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**BEAM WEB PENETRATION SCHEDULE U (UNREINFORCED)**

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<td>B3</td>
<td>4</td>
</tr>
<tr>
<td>RECTANGULAR PENETRATION</td>
<td>4&quot; x OPENING WIDTH</td>
<td>B4</td>
<td>2</td>
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<td>B5</td>
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1. Guide rail detail
2. Guide rail bracket conn to conc wall
3. Elevator framing notes
4. Elevator details
5. Retainer clip
6. Floor support - metal deck & fill
7. Guide rail base plate detail
8. Elevator door support
9. Elevator pit ladder support detail
10. Elevator guide rail elevation

**Guidance Rail Bracket Connection to Concrete Wall**

- **Guide Rail**
  - Span 8'-0" maximum.
  - Must be supported by upper & lower car frames.
  - Must be guided by manufacturer.
- **Bracket Supports**
  - Anchor to concrete wall.
  - BOLTS PER @ 18" OC.
  - RETAINER CLIP:
    - SEE ARCH

**Elevator Framing Notes**

- **Elevator Details**
  - Provide tongue & groove for web of guide rail.
  - Fish plate 3/4" (4) total ea.
  - Elevator door support.
  - 2" distance.

**Consensus**

- All works must conform to California Code of Regulations Latest Edition.
- Manufacturer's structural importance factor 1 = 1.15.
- Calculations and details shall comply with load criteria and detailing.
- Consultants shall stamp and sign both calculations and installation drawings.
- Calculations, installations and fabrication drawings and material specifications demonstrating compliance with criteria stated above.
- Bracket supports, retainer plates, including all connections and splices.
- Cabinet carrying capacity = 2,500 lbs.
- Elevator manufacturer shall verify all dimensions and applicability of supplemental support framing and connections.
- Class D bolt shall be 5/8" dia (A307) bolt.
- Each other.
- See arch for details.
- 2" side plates.
- 3" tongue & groove for web of guide rail.
- 1 5/8" (4) total ea.
- Anchor to concrete wall.
- BOLTS PER @ 18" OC.
- Clamps:
  - SEE ARCH

**Elevator Pit Ladder Support Detail**

- **Base Connection**
  - See arch.
  - 1 1/4" (4) total ea.
  - R = 7/8" dia.

**Elevator Guide Rail Elevation**

- **Guide Rail Elevation**
  - See arch.
  - 1 1/4" (4) total ea.
  - R = 7/8" dia.

**Elevator Door Support**

- **Floor Support - Metal Deck & Fill**
  - See arch.
- **Floor Support - Concrete Slab**
  - See arch.

**Consultant**

- CARL C. LUBAWY
  - CONSULTANT
  - S4860
  - NO. ISSUE DATE
  - S5.04

**San Jose City College**

- PHYSICAL EDUCATION BUILDING AND WELLNESS CENTER
  - SAN JOSE, CALIFORNIA
BASKETBALL BACKSTOP PARALLEL TO ROOF STRUCTURE

BASKETBALL BACKSTOP PERPENDICULAR TO ROOF STRUCTURE

BASKETBALL BACKSTOP PARALLEL TO ROOF STRUCTURE

BASKETBALL BACKSTOP PERPENDICULAR TO ROOF STRUCTURE

NOTE: SEE ARCH FOR BACKSTOP INFO NOT SHOWN OR NOTED

MAX 6"

ROOF BEAM OR TRUSS TOP CHORD PER PLAN

W12x14 PERPENDICULAR, AT ONE SIDE OF EA. BEAM, TYP

@ ROOF TRUSS TOP CHORD TYP

HORIZ TUBES BY BACKSTOP MFR, USE 3 1/2" OUTSIDE DIA x 11ga MIN

FRONT BRACE BY BACKSTOP MFR

HORIZ TUBES BY BACKSTOP MFR, USE 3 1/2" OUTSIDE DIA x 11ga MIN

FRONT BRACE BY BACKSTOP MFR

NOTE:

SEE ARCH FOR BACKSTOP INFO NOT SHOWN OR NOTED

MAX 6"

ROOF BEAM OR TRUSS TOP CHORD PER PLAN

W12x14 PERPENDICULAR, BEYOND, TYP

@ TRUSS TOP CHORD, TYP
6. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF HEADED STUDS PER SPECIFICATION.
   BEAM CENTER. DISTRIBUTE HEADED STUDS EQUALLY FROM EACH END. IF STUDS REMAIN, STUDS IN FLUTES WITHOUT STUDS, STARTING AT THE ENDS OF THE BEAM AND CONTINUING TO...

5. PROVIDE CLOSURE PLATE AT ALL INTERIOR AND EXTERIOR EDGES OF DECK UNLESS OTHERWISE NOTED. SUBMIT LAYOUT OF OPENINGS AND PROPOSED REINFORCING OF DECK FOR REVIEW.

4. DECK WELDING SHALL BE AS NOTED IN DETAIL 9 ON THIS SHEET. TYPICAL WELDED HEADED STUD SPACING IS SHOWN IN DETAIL 9 ON THIS SHEET. WHERE ONE...

3. DECK ONLY. USE SHOT PINS OR SCREWS INTO STEEL DECK ONLY PER SCHED.

2. STRUCTURAL PROPERTIES OF STEEL DECK SYSTEM SHALL EQUAL OR EXCEED THE PROPERTIES OF MATERIAL SPECIFIED FOR THE DECK.

1. SEE GENERAL NOTES ON S4-001 FOR MATERIAL SPECIFICATIONS.
NOT TO SCALE

SLAB REINFORCEMENT AT EDGE COLUMN
SLAB EDGE EXTENDS 2" OR MORE BEYOND FACE OF COLUMN

NOTES:
1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT
2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

SLAB REINFORCEMENT AT EDGE COLUMN
SLAB EDGE EXTENDS LESS THAN 2" BEYOND FACE OF COLUMN

NOTES:
1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT
2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

SLAB REINFORCEMENT AT CORNER COLUMN
SLAB EDGE EXTENDS 2" OR MORE BEYOND FACE OF COLUMN

NOTES:
1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT
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SLAB REINFORCEMENT AT CORNER COLUMN
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NOTES:
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2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

DECK SUPPORT AT CORNER COLUMN
SLAB EDGE EXTENDS 2" OR MORE BEYOND FACE OF COLUMN

NOTES:
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NOTES:
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2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

SLAB REINFORCEMENT AT INTERIOR COLUMN

NOTES:
1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT
2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

DECK SUPPORT AT INTERIOR COLUMN

NOTES:
1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT
2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

DECK SUPPORT AT COLUMN FLANGE

NOTES:
1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT
2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

DECK SUPPORT AT COLUMN WEB

NOTES:
1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT
2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

EDGE OF DECK AT EXTERIOR COLUMN

NOTES:
1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT
2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

EDGE OF DECK AT EXTERIOR CORNER COLUMN

NOTES:
1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT
2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

SMALL OPENING IN STEEL DECK

NOTES:
1. PLATE MAY BE OMITTED IF HOLE IS CUT AFTER CONCRETE PAVEMENT HAS REACHED ITS DESIGN STRENGTH.
2. HOLES MAY BE LOCATED ABOVE DECK IN SteEL AT ANY DEPTH.

MEDIUM OPENING IN STEEL DECK

NOTES:
1. PLATE MAY BE OMITTED IF HOLE IS CUT AFTER CONCRETE PAVEMENT HAS REACHED ITS DESIGN STRENGTH.
2. HOLES MAY BE LOCATED ABOVE DECK IN SteEL AT ANY DEPTH.

LARGE OPENING IN STEEL DECK

NOTES:
1. PLATE MAY BE OMITTED IF HOLE IS CUT AFTER CONCRETE PAVEMENT HAS REACHED ITS DESIGN STRENGTH.
2. HOLES MAY BE LOCATED ABOVE DECK IN SteEL AT ANY DEPTH.

OPENINGS ADJACENT TO COLUMN

NOTES:
1. PLATE MAY BE OMITTED IF HOLE IS CUT AFTER CONCRETE PAVEMENT HAS REACHED ITS DESIGN STRENGTH.
2. HOLES MAY BE LOCATED ABOVE DECK IN SteEL AT ANY DEPTH.
1. At shallow step provide:

- High curbs on conc fill over metal deck
- Possible alternate angle construction
- Beam to slab spread for footing
- Beam size and spacing per top
- Beam size and distribution
- Angle size to fit beam
- Beam width in accordance
- Beam depth in accordance
- Beam embedment

2. Where high curbs coincide with beam:

- Beam at high slab
- Beam at low slab
- Beam at edge
- Beam at center
- Beam embedment
- Beam depth in accordance
- Beam width in accordance

3. At curb near edge of deck:

- Beam at edge
- Beam at center
- Beam embedment
- Beam depth in accordance
- Beam width in accordance

4. Typical change in slab elevation (beam at high slab)

5. Typical change in slab elevation (beam at low slab)

6. Typical change in slab elevation along beam span

7. Curb section

8. Curb at steel deck

9. Tall curb

10. High curbs on conc fill over metal deck

11. Depressed slab

12. Depressed slab at dropped beam

13. Typical detail of concrete fill

14. Housekeeping pad/mechanical pad

15. Worksheet

16. Material schedule

17. Curb schedule

18. Steel deck schedule

19. Typical steel deck details

20. Project name:

- Physical education building and wellness center

21. Physical education building and wellness center

22. San Jose City College

23. Thornton Tomasetti, Inc.

24. 680 California St., 14th Floor

25. San Francisco, CA 94108

26. T 415.365.8900 F 415.365.8901

27. Architectural stamp

28. Approval

29. Renewal

30. Copyright © 2009

31. All rights reserved

32. Information contained herein is an instrument of professional services and shall remain the property of LPAS, Inc. Information contained herein is an instrument of professional services and shall not be used for any other purpose or released to any other party without the written consent of LPAS, Inc.”
1. See for further info not noted.

2. WF beam parallel to top.

3. HSS base detail.

4. HSS base by conc wall.

5. Mechanical support at roof.

6. HSS to panel.

7. Steel plate detail.

8. Deck edge.

NOTE: Tighten turnbuckle adequate to make rod taut.

1 1/2" = 1'-0"
TYPICAL EXTERIOR SILL AND JAMB CONNECTION

TYPICAL EXTERIOR HEADER AND JAMB CONNECTION

TYPICAL EXTERIOR BOTTOM TRACK

TYPICAL EXTERIOR JAMB STUD SCHEDULE
1. JAMB STUD DEPTHS SHALL MATCH TYPICAL WALL STUD DEPTHS.

- **TYPICAL EXTERIOR JAMB STUDS**
  - JAMB STUDS DEPTHS SHALL MATCH TYPICAL WALL STUD DEPTHS.
  - NOTE: SEE S6.00 FOR METAL STUD SCHEDULE AND NOTES.

- **TYPICAL EXTERIOR BOTTOM TRACK**
  - 3" MIN T & B

- **TYPICAL EXTERIOR JAMB STUD SCHEDULE**
  - 1. JAMB STUD DEPTHS SHALL MATCH TYPICAL WALL STUD DEPTHS.
  - 2. TYPICAL EXTERIOR JAMB STUD SCHEDULE AND CLIPS.

- **TYPICAL EXTERIOR HEADER ATTACHMENT**
  - 600S162-54 STUD
  - 600S162-54 STUD
  - 600S162-54 STUD

- **TYPICAL EXTERIOR HEADER AND JAMB CONNECTION**
  - 600S162-54 STUD
  - 600S162-54 STUD
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- **TYPICAL EXTERIOR BOTTOM TRACK**
  - 3" MIN T & B

- **TYPICAL EXTERIOR METAL STUD DETAILS**
  - PROJECT TITLE: TYPICAL EXTERIOR METAL STUD DETAILS
  - SHEET NO: S7.02

- **TYPICAL EXTERIOR SILL SECTION**
  - 600S162-54 STUD
  - 600S162-54 STUD
  - 600S162-54 STUD

- **TYPICAL EXTERIOR HEADER SECTION**
  - 600S162-54 STUD
  - 600S162-54 STUD
  - 600S162-54 STUD
TYPICAL WALL CORNERS AND INTERSECTIONS

TYPICAL BRACE AT STEEL DECK WITH CONCRETE PARALLEL TO DECK FLUTES

TYPICAL BRACE AT STEEL DECK WITH CONCRETE PERPENDICULAR TO DECK FLUTES

TYPICAL BRACE AT STEEL DECK WITHOUT CONCRETE PARALLEL TO DECK FLUTES

TYPICAL BRACE AT STEEL DECK WITHOUT CONCRETE PERPENDICULAR TO DECK FLUTES

TYPICAL BRIDGE

ALTERNATE BRIDGEING

ALTERNATE BACKING PLATE

ALTERNATE BACKING STUD

TYPICAL BACKING PLATE

TYPICAL BACKING STUD

WELD OPTION

SCREW OPTION

TYPICAL BRACE AT STEEL DECK WITH CONCRETE PERPENDICULAR TO DECK FLUTES

TYPICAL BRACE AT STEEL DECK WITH CONCRETE PARALLEL TO DECK FLUTES

TYPICAL BRIDGE

ALTERNATE BRIDGEING

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TYPICAL BRIDGE

ALTERNATE BRIDGEING

ALTERNATE BACKING PLATE

ALTERNATE BACKING STUD

TYPICAL BACKING PLATE

TYPICAL BACKING STUD

WELD OPTION
1. Plywood Sheathing at Roof
2. Plywood Nailing
3. Voluntary Seismic Upgrade Note
4. Voluntary Seismic Upgrade Detail
5. In-Fill of (E) Openings in Shear Walls
6. In-Fill of (E) Openings in Non-Shear Walls
7. Wf Beam at Roof
8. Hss to Mezzanine
9. Hss to Ceiling

NOTES:
- Plywood sheathing at roof
- Voluntary seismic upgrade note
- In-fill of (E) openings in shear walls
- In-fill of (E) openings in non-shear walls
- Wf beam at roof
- Hss to mezzanine
- Hss to ceiling
NAILING SCHEDULE

1. Application of sealant on bearing block prior to nailing is required.
2. Nailer and backer block may be common, box or casing.
3. Corrosion-resistant staples with nominal 7/16-inch crown and 1-1/8-inch length for 1/2-inch requirements of section 2304.9.5.
4. Center on the edges and 12" on center at intermediate supports for non-structural fasteners spaced 3 inches on center at exterior edges and 6 inches on center at intermediate supports.
5. Velocity of cold-formed galvanized sheet metal is determined by linear velocity at 150 mph.
6. Minimum 30 gauge (.0125"") galvanized cold-formed GI metal.
7. Recommended guideline for panels with mechanical fasteners is to use 16d nails at each bearing.
8. nails per lineal foot at each bearing, radiused 1/2".
9. For roof joists and girders, mechanical fasteners spaced 8 inches on center at interior supports.
10. For roof columns and flange members, mechanical fasteners spaced 4 inches on center at interior supports.
11. For roof columns and flange members, mechanical fasteners spaced 8 inches on center at intermediate supports.
12. For roof columns and flange members, mechanical fasteners spaced 4 inches on center at intermediate supports.
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