1-2 STRUCTURE DESIGN TECHNICAL COMMITTEES & TECHNICAL SPECIALISTS

General

Structure Design Technical Committees are established to

1 Develop, review and update technical policy and standards for bridges and related structures

2 Propose and review changes to AASHTO Specifications, Bridge Design Manuals, Standard Plans, Standard Detail Sheets, Standard Specifications, and Standard Special Provisions

3 Review and evaluate methods, materials, systems and products submitted by Construction, Maintenance, other Engineering Service Center (ESC) Offices, Caltrans Programs, or by industry

Individual Technical Specialists have also been designated for some specific technical areas

The Office of Structure Design (OSD) Office Chief will direct the technical operations of each Structure Design Technical Committee through a designated Supervising Bridge Engineer who will be assigned as the Committee "Manager"

The Committee Manager will be the management focal point responsible for establishing committee work assignments, identifying resources, setting committee work priorities and assignment completion dates, and keeping the OSD Office Chief informed of committee activities

The Technical Committee Chair is responsible for coordinating the activities of the committee, making recommendations to the Committee Manager, and keeping the Committee Manager informed of committee activities and committee resource needs

The Assistant Committee Chair is responsible for assisting the committee chair in the completion of assigned tasks and sits in for the Committee Chair in his/her absence

Committee members are added to Technical Committees by the recommendation of the Committee Chair or the Assistant Committee Chair, by the approval of the Committee Manager, and by the approval of the candidate's first-line and second-line supervisor

The OSD Office Chief will direct the technical operations of each Technical Specialist through the Specialist's Branch Supervisor The Branch Supervisor will be the management focal point

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Memo has been extensively rewritten and converted to metric format
Supersedes Memo to Designers 1-2 dated September 1992
Supersedes Memo to Designers 1-2 Attachments 1 and 2 dated June 1994

responsible for establishing specialist work assignments, identifying resources, setting work priorities and assignment completion dates, and keeping the OSD Office Chief informed of the specialist's activities

General Procedures for Revisions

Proposals for revisions to specifications (AASHTO, standard or special provisions), bridge design manuals, or established procedures should be submitted with written justification to the appropriate Technical Committee Chair or Technical Specialist If the proposal is to be considered for adoption, the Technical Committee Chair or Technical Specialist becomes the "initiator" and prepare the draft of any plan, manual, design or construction specification revision required

The Technical Committee Chair or Technical Specialist will submit the draft to the Committee Manager with a transmittal memorandum that

(a) explains the reason and provides background information for the revision

(b) identifies other published information that will be affected by the revision

(c) if other than a routine revision, identifies suggested procedures for implementation, and

(d) discusses the timing for publication and whether or not it is necessary to circulate the revision for comments

If the Committee Manager concurs with the draft and transmittal memorandum, they will be forwarded to the appropriate section as outlined below and the Technical Committee Chair or Technical Specialist shall notify the proposal's submitter of the disposition of the proposal

Bridge Design Manual Revisions

When the Committee Manager concurs with the draft proposal and memorandum for a bridge design manual revision they shall be forwarded to the Technical Publications Section for processing The Technical Publications Section will reproduce the draft and circulate it for comments to those identified by the initiator or the Committee Manager

The initiator will consider the comments received, rework the draft, and resubmit it to the Technical Publications Section

The Technical Publications Section will prepare the final format and submit it to the Bridge Design Branch Supervisors for final approval and signature before printing and distributing

Bridge Standard Detail Sheet Revisions

When the Committee Manager concurs with proposed revisions to a Bridge Standard Detail Sheet they shall be forwarded by the initiator to the Technical Publications Section for processing The Technical Publications Section will make the final revisions to the Standard Detail Sheet and submit it to the Bridge Design Branch Supervisors for final approval and signature before printing and distributing

Standard Plan Revisions

When the Committee Manager concurs, Standard Plan revisions shall be submitted to the Technical Publications Section with supporting information and documentation as outlined in the ESC Office of Office Engineer's latest memorandum, "Procedure for Submitting Requests for New or Revised Standard Plans " The Technical Publications Section will handle final processing and transmittal to the Office of Office Engineer

Construction Specification Revisions

With concurrence from the Committee Manager, Technical Committees and Technical Specialists will submit recommendations for revisions to the Standard Specifications or Standard Special Provisions to the Specifications and Estimates Branch Supervisor Such recommendations should not be forwarded until they have been discussed with, reviewed by, and concurred with all parties affected by the proposed revisions The Specifications and Estimates Branch Supervisor will be responsible for implementing any specification revisions that result from committee or specialist activities

AASHTO Design Specification Revisions

Technical Committees and Technical Specialists will submit any recommended revisions to AASHTO Design Specifications through their Committee Manager to the OSD Office Chief for approval and transmittal to AASHTO The Executive Assistant to the ESC Director is the AASHTO Coordinator for the ESC and performs the staff work for the ESC Director relating to the AASHTO Sub-Committee on Bridges and Structures It is important to supply this person with all pertinent data on or before January 1, so that revisions can be recommended for the agenda of the Spring Regional Meetings

AASHTO Publication and Specification Reviews

Technical Committees and Technical Specialists are responsible for coordinating the content of the Bridge Design Manuals and related publications with the corresponding AASHTO publications When new editions of, or interims to, the AASHTO Standard Specifications for Highway Bridges or other related AASHTO publications are issued, the Technical Committees and Technical Specialists shall review the new material to determine if the new or revised AASHTO wording requires a corresponding revision or

addition to the Caltrans manuals To assure the Committee Managers ~~Sponsors~~ and the OSD Office Chief that the required reviews have been made, one of the two following actions shall be taken

(a) If revisions are required, they shall be processed in accordance with the provisions outlined in the preceding paragraphs of this Memo-to-Designer, or

(b) If no revisions are required, the Technical Committee Chairs or Technical Specialists shall state such in a memorandum to their Committee Manager and the AASHTO Coordinator, identifying the portions of newly-released AASHTO publication they have reviewed

Miscellaneous Procedures

The Bridge Design Branch Supervisors and the Committee Manager should be invited to attend all committee meetings

Technical Committee Chairs shall submit semi-annual reports in January and July summarizing the activities of the technical committee during the previous six months and establishing the technical goals for the next six months

Listed in Attachments 1, 2, and 3 is each Technical Committee, the designated Committee Manager, the Technical Specialists, and a description of the committee and specialist duties and responsibilities including expenditure authorization and file reference number

Large technical committees, such as the Earthquake Committee, are split into two parts, an Executive Committee and a General Committee The role of the Executive Committee is to guide the committee's development work and to respond to technical issues in a timely fashion The role of the General Committee is to provide a forum for discussing technical committee issues and a larger technical group for assigning committee activities

User Groups, such as the Detailing and the Bridge Design Users Group, are organized to provide input to OSD management and technical committees on issues relative to the group's particular

focus Their role relative to Technical Committees is to keep related Technical Committee Chairs and Technical Specialists informed of user needs and provide responses to those Chairs and Specialists when requested

There are other technical committees in the ESC whose role and activities do not directly impact the production of Structure PS&E and they are not included in this Memo-to-Designers Some of these committees are the ESC Computer Committee and the Non-Destructive Evaluation and Testing Committee

The activity code for all committee and specialist work is 2002 for designated supervisors and 2003 for staff The expenditure authorization is 910076 with a special designation (SD) as shown adjacent to the committee name

The file reference numbers should be used on all committee-related correspondence to facilitate filing and retrieval

Richard D. Land
Bridge Design Branch A

Shannon H. Post
Bridge Design Branch B

Michael A. Barbour
Bridge Design Branch C

RDL pal

Attachments

ATTACHMENT 1

1-2 STRUCTURE DESIGN TECHNICAL COMMITTEES

Bridge Deck Protection ..... SD 6BrDeck F 700.281

Manager: Bridge Design Branch A Supervisor

M Lee* - Maint
T Leahy ** - EQE
N Ferreria - Const
D Glauz - METS
K Meier - Specs.
J Hamaguchi - EFPB
R Maggenti - METS
W Morehead - Mech/Elec
D Parks - METS
R Rogerson - Design
T Bolla - Maint

Bridge Design Computer ..... SD 6BrDesignC F 895.4

Manager: Bridge Design Branch C Supervisor

J Foster * - Design
J Fujimoto** - Design
M Reno - Design
R Rogerson - Design
S Hida - Design
E Seaberg - Design
S Mitchell - EQE
R Heninger (S) - Design
D Alvarez (S) - Design

Composites Technology ..... SD 6Composites F 859

Manager: Bridge Design Branch C Supervisor

M Sultan* - EQE
L Sheng** - EQE
E Seaberg - Design
P Hipley (S) - Seitech
M Lee - Maint
S Mitchell - EQE
D Keim - Const
K Pinkerman - METS
A Rogerson - METS
R Zelenski - Seitech
J Goronea - Specs
I Noureddine (S) - CCMB

ATTACHMENT 1

Detailing ..... SD 6 Detailing F 800

Manager: Bridge Design Branch B Supervisor

B Mori* - Design
G Bidwell - Maint
J Casarino - Design
K Endow - Maint
I Gamarra-Remmen - Struct Fdn
N Gwynn - Design
R Lim - Design
J Sanchez - Design
S Schenck - Design
J Ring - PI North
D Sanderson - Design
J Thorne - Design
A Torres - EM&S
P Von Savoye - T&S
S. Lee - Design

Earthquake ..... SD 6Earthquake F 820.1

Manager: Bridge Design Branch A Supervisor

Executive Committee

T Ostrom* - Design
M Keever** - Design
R Zelinski - SeiTech
Bridge Design Supervisors
EQ Engineering Branch Supervisor - EQE

General Committee

Executive Committee
OSD Senior Seismic Specialists
S El-Azazy - EQE
B Maroney - Toll Bridge Program
C Whitten - SeiTech
D Thomas - Const
R Jorgensen - Maint
L Maulchin - EQE (Seismologist)
A Abghari - OSF (Geotech EQ Engineering)
M Yashinsky - EQE (PEQIT Coordinator)
K Meier - Specs
M DeSalvatore - OSF
F. Alamedine - EQE
M Sultan - EQE
L Sheng - EQE
I Abu-Markhieh - CCMB
N Gee - EFPB

ATTACHMENT 1

Loads ..... SD 6Load F 820

Manager: Bridge Design Branch C Supervisor

E Seaberg* - Design
A Gugino** - Maint
J Babcock - Const
J Fujimoto - Design
S Hida - Design
P McCauley - EFPB
K Balaji (S) - Design
L Storlie - Design
J Strootman - Specs
E Kurani (S) - Design

Precast/CIP Segmental Concrete ..... SD 6Segmental F 830.2

Manager: Bridge Design Branch C Supervisor

M Madani* - Design
G Murugesh (S)** - Design
M Akkari - Design
J Avila (S) - Design
F Hoffman - Design
E Kaslan - Maint
R Falsetti - Specs
L Schrey (S) - Design
D Thomas - Const
N Gee - EFPB
C Traina - Estimating

Prestressed Concrete ..... SD 6PrestressC F 830

Manager: Bridge Design Branch B Supervisor

F Hoffman* - Design
M Pope** - Design (Technical Specialist)
N Gee - EFPB
G Danke - Specs
J Foster - Design
E Kaslan - Maint
J Sauber - Design
K Pinkerman - Lab
J Avila (S) - Design
G Reyes-Gutierrez (S) - Design
C Phillip - Const

ATTACHMENT 1

Reinforced Concrete ..... SD 6ReinfC F 825,833

Manager: Bridge Design Branch C Supervisor

R Zelinski* - Seitech
M Mahan - EQE
M Raghavendrachar** - Design (Tech Specialist)
H Goronea (S) - Design
E Vergara - EFPB
R Dills - Maint
S Wiman - Design
S McBride - EQE
R Rogerson - Design
J Gillis - Const
B Anderson - Specs

Structural Steel ..... SD 6StructSteel F 835

Manager: Bridge Design Branch B Supervisor

S Altman* - Design
K Harper - Design
M Reno** - Design
M Fustok - CCMB
L Duan** - Design (Tech Specialist)
T Bertram - EFPB
R Abidi - Const
S Sahs - Maint
R Aguilar - Lab
J Goronea - Specs
K Brown - Toll Bridge
S Hamoud (S) - Design
M Pohll - Design
A Christensen (S) - Design

Substructure ..... SD 6Substruc F 845,852

Manager: Bridge Design Branch A Supervisor

T Jensen* - Design
T Ruckman - Specs
S Wiman** - Design
S Naramore - Specs
D Beddard - CCMB
T Ostrom - Design
R Fox - OSF (Geology)
D Speer - OSF (Geotech)
G Garofalo - OSF (Geotech)
D Keim - Const
J Moese - Design

ATTACHMENT 1

Utility ..... SD 6Utilities

Manager: Bridge Design Branch A Supervisor

A Gugino* - Maint	N Melehani - Specs
S Wiman** - Design	H Phan - M&E
J Stayton - Const	D Wright (S) - M&E
T Bertram - EFPB	H Herr - Maint

ATTACHMENT 2

1-2 TECHNICAL SPECIALISTS

Approach Slabs ..... M Ha

SD 6ApproachS1 F 855

Bridge Strengthening ..... R Rashedi

SD 6BrStrength F 820

Culverts, Tunnels, and Tubes ..... P Cotter

SD 6Culverts SD 6Tunnels F872,880

Deflections ..... M Akkari

SD 6Deflect F 866

Earth Retaining Systems ..... J C Moese

SD 6EarthRetSy F 852

Hydraulics and Scour ..... B Lindsey

SD 6Hydr&Scour

Joint Seals & Bearings ..... R. Lacalle

SD 6JointSealsB F 865, 860

Load and Resistance Factor Design (LRFD) ..... S Hida

SD 6LRFD F 820

Railings, Barriers, and Sound Walls ..... R C Anderson

SD 6Railings SD 6Barrier SD 6Walls F 816 1,868

Railroads ..... J G Sauber

SD 6RR F 885

Retrofitting ..... R J Zelinski

SD 6Retrofit F 859

Signs and Overhead Structures ..... J Woody

SD 6Sign&Sig F870

Structure Drainage ..... S Wiman

SD 6StrucDrain F 871

Transit ..... J Esfandiary

SD 6Transit F 900 31

Widenings, Modifications, and S-I-P Forms ..... L N. Storlie

SD WidModSip F 800, 825 16

Signs and Overhead Structures

Technical Specialist

Is responsible for the structural design of all signs, traffic signal and lighting standards:

- Provides liaison and represents the Department by participating with other agencies, organizations and industry.
- Keeps aware, through various sources, of state-of-the-art developments, applications, and practice.
- Reviews, examines and evaluates systems and proprietary products.
- Coordinates and works with Design, Construction, Maintenance, Traffic, and the Lab to solve problems, initiate research and reach conclusions.
- Develops and recommends methods, procedures, policy and specifications.
- Revises, updates and interprets standard plans, special designs, specifications, memos and manuals.
- Proposes and advocates use of appropriate new applications, methods and materials.
- Is a technical resource assisting, counseling and advising designers and National organization committee members.
- Coordinates with Districts during design and shop plan reviews.

Structure Drainage

Technical Specialist

Is concerned with design details associated with deck drainage and utilities in structures:

- Provides liaison and represents the Department by participating with other agencies, organizations and industry.
- Keeps aware, through various publications, of state-of-the-art developments, applications and practice.
- Reviews, examines and evaluates systems and proprietary products.
- Coordinates and works with Design, Construction, Maintenance and the Lab to solve problems, initiate research and reach conclusions.
- Develops and recommends methods, procedures, policy and specifications.
- Revises, updates and interprets standards, specifications, memos and manuals.
- Proposes and advocates use of appropriate new applications, methods and materials.
- Develops and uses various training methods that help and encourage designers to use new applications, methods and materials.
- Is a technical resource assisting, counseling and advising designers and National organization committee members.

Transit

Technical Specialist

Is concerned with structural aspects of the mass transit mode portion of the statewide transportation scheme:

- Researches, develops and coordinates design standards, loads, grades, clearances, typical sections, etc. for various type transit systems.
- Investigates existing design criteria for adoption to transit structures and transit related facilities such as parking structures and passenger stations.
- Provides expertise and liaison to DOT Districts, Division of Mass Transit, and the Division of Transportation Planning for the structural aspects of transit structures and related transit facilities.
- Maintains transit state-of-the-art sources file and a file on current in-house projects.

Widenings, Modifications, and S-I-P Forms

Technical Specialist

Is concerned with the structural adequacy of widenings, modifications and stay-in-place form construction:

- Provides liaison and represents the Department by participating with other agencies, organizations and industry.
- Keeps aware, through various sources, of state-of-the-art developments, applications, and practice.
- Reviews, examines and evaluates systems and proprietary products.
- Coordinates and works with Design, Construction, Maintenance, and the Lab to solve problems, initiate research and reach conclusions.
- Develops and recommends methods, procedures, policy and specifications.
- Revises, updates and interprets standards, design details, specifications, memos and manuals.
- Proposes and advocates use of appropriate new applications, methods and materials.
- Develops and uses various training methods that help and encourage designers to use new applications, methods and materials.
- Is a technical resource assisting, counseling and advising designers and National organization committee members.