



REPORT TO COUNCIL

City of Sacramento

915 I Street, Sacramento, CA 95814-2604
www. CityofSacramento.org

Consent
June 5, 2007

Honorable Mayor and
Members of the City Council

Title: Adoption of Revised Standard Specifications for Public Construction

Location/Council District: All Districts

Recommendation: Adopt the attached **Resolution** 1) approving the revised Standard Specifications for Public Construction; and 2) authorizing the City Manager to approve future revisions or additions to the technical specifications, Sections 10 through 38, including the Standard Drawings in accordance with the "Standard Specifications Update Procedure" outlined in Attachment 3 of this report.

Contact: Dave Brent, Engineering Manager, 808-1420, Andy Hunt, Supervising Engineer, 808-1408.

Presenters: Not applicable

Department: Utilities

Division: Engineering Services

Organization No: 3332

Description/Analysis

Issue: The current Standard Specifications for Public Works Construction were adopted in 1989 and need to be updated to reflect current building materials, new drawings and revised procedures and requirements for the construction of public improvements within the City of Sacramento.


Policy Considerations: Updating and revising the City's 1989 Standard Specifications and establishing a procedure for future updates is consistent with the Development Oversight Committee (DOC) overall goal to "Assist the City of Sacramento in becoming a development-friendly city with a streamlined, time-certain development process that encourages and promotes quality, cost-effective and sensible development while creating jobs and revenue and sustaining our excellent quality of life". The City Council is authorized to adopt Standard Specifications under Section 3.60.130 of the Sacramento City Code.

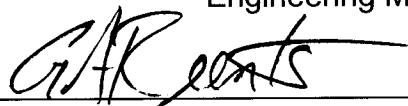
Environmental Considerations: Adoption of the revised Standard Specifications is an administrative procedure that consists of general policy and procedure making that is not a "project" requiring environmental review, under Section 15378(b)(2) of the California Environmental Quality Act Guidelines.

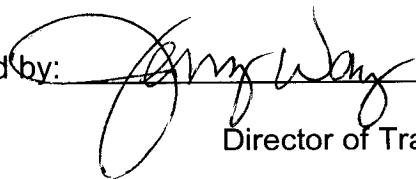
Rationale for Recommendation: Updating and revising the City's 1989 Standard Specifications to reflect current building materials, new drawings and revised procedures and requirements will make the process for constructing public improvements and facilities in the City more efficient, whether the construction is performed by the City, by contractors, or by private developers.

Financial Considerations: The revised Standard Specifications for Public Construction will reduce the amount of effort that is needed to prepare plans and specifications for public improvements within the City of Sacramento. Authorizing the City Manager to approve future changes to the technical specifications and drawings will help maintain this benefit and result in lower cost for preparing plans and specifications for public improvement projects.

Emerging Small Business Development (ESBD): No goods or services are being purchased.

Respectfully Submitted by: 
David L. Brent
Engineering Manager

Approved by: 
Gary A. Reents
Director of Utilities

Approved by: 
Jerry Way
Director of Transportation

Recommendation Approved:

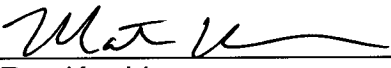

Ray Kerridge
City Manager

Table of Contents:

Report	Pg 1-2
Attachments	
1 Background	Pg 3-4
2 Table of Deletions and Additions to Technical Specifications	Pg 5-10
3 Procedure for Updating the Standard Specifications	Pg 11-12
4 Resolution	Pg 13

Attachment 1 Background

- . Preparing plans and specifications for public improvements within the City of Sacramento currently requires combining updated drawings and specification addendums with the 1989 Standard Specifications. These changes are either placed on the plans or in the special provisions. Time and materials will be saved if the current drawings and specifications are made part of a revised Standard Specifications.
- . Beginning in 2004 a committee composed of representatives from Utilities, Transportation (formerly Public Works), the City Attorney's Office and others have met regularly to update and revise the 1989 Standard Specifications.
- . Changes to the general provisions and procedures of the Standard Specifications (Sections 1-9) were coordinated with the City Attorney's Office and highlights of these modifications are as follows:
 - . Revised and updated definitions and terminology to reduce ambiguity and increase the use of consistent terminology.
 - . Clarified and revised provisions dealing with the addition and deletion of work, and how such changes are authorized and paid for.
 - . Clarified requirements for filing claims for additional payment, and added new claim review process to provide for review of unresolved claims by other departments.
 - . Added provisions to improve site housekeeping, to implement the City Code's street closure restrictions and to allow City to require increased bonding when the contract amount increases.
 - . Revised provisions governing the removal of parking for construction purposes to reflect current practice.
 - . Revised provisions governing completion of work and final payment to provide clearer and more detailed procedures and requirements, to better assure satisfactory and timely completion of projects.
- . Changes to the technical specifications (Sections 10-37) and drawings were made and coordinated by Utilities and Transportation (formerly Public Works) Departments. All proposed changes have been approved by all affected Departments: Utilities, Transportation, Parks and Recreation, General Services and Development. A table listing additions and deletions to the technical specifications is attached as Attachment 2.
- . The revised Standard Specifications for Public Construction include modifications to

the existing Standard Drawings and the inclusion of new drawings. The 1989 Standard Specification had 55 standard drawings. The revised Standard Specifications has 180 standard drawings which will be included under a separate cover, titled "Standard Plans for Public Construction".

- . The proposed revised Standard Specifications for Public Construction have been provided to the following outside parties for review and comment:
 - . Granite Construction
 - . Teichert Construction
 - . Building Industry Association (BIA)
 - . Consultant Engineers and Land Surveyor of California (CELSOC)
 - . Wood Rodgers

- . All comments received have been incorporated to the extent possible. In addition, the revised Standard Specifications were presented to the Development Oversight Commission on September 11, 2006.

- . In order to allow for a more timely and efficient procedure for approval of future changes to the technical specifications and drawings, staff is requesting that the City Council also authorize the City Manager to approve future revisions and additions to the technical specifications and drawings in accordance with the "Standard Specifications Update Procedure" attached as Attachment 3. In summary, this procedure establishes a standing committee with representatives from user departments and the City Manager's office to submit and approve addenda to all technical specifications, Sections 10 through 38, as they are needed. Approved addenda will be available to the public on a city web site and in hard copy.

- . The 1989 Standard Specifications for Public Works Construction and the proposed 2007 Standard Specifications for Public Construction are on file and available for public review in the City Clerks Office.

**Attachment 2
Table of Deletions and Additions to Technical Specifications**

S e c t' i o n	Added	Deleted
10	CONSTRUCTION MATERIALS	
	Treated Permeable Bases	
	Geogrid	
	Controlled Density Fill	
	Butterfly Valves	
	Plastic Potable Pipe	
	Plastic Irrigation Pipe and Fittings	
	Grout	
	Drypack Grout	
	Cement Grout	
	Nonshrink Grout	
	Epoxy Grout	
	Polymer Concrete	
	Adhesive Capsules for Dowel Anchorage	
		Asbestos Cement Pipe (ACP)
		Joint Materials for ACP
		Galv. Steel Irrigation Pipe & Fittings
13	EXISTING FACILITIES	
	Removing/Relocating: added language for: Asphalt Concrete, Mailboxes, Fences, Sprinkler and Lights, Abandonment of water surface and Existing Utilities	
	Pavement for Trenches Surface Res.	
14	EARTHWORK, EXCAVATION, EMBANKMENT AND SUBGRADE	
	Temporary Paving	
	Embankment and Fill	
	Unsuitable Material/Import	
16	WATER QUALITY CONTROL	DUST CONTROL
	Ground Water Discharges	
	Water Quality Control	
	Erosion, Sediment and Pollution Control	
	Enforcement	
		Dust Control (see Site Cleanup 16-3)

S e c t i o n	Added	Deleted
18	HEADERS	SIDE FORMS AND HEADERS
		Metal Side Forms
20	CONCRETE IN STRUCTURES	
	Flatness Tolerance for Floor Slabs	
	Flatwork	
	Grouting and Drypacking	
	Quality Control	
		Mixing of Concrete
		Bonding
		Protecting Concrete
21	PLACING STEEL REINFORCING	
	Preparation for Placing	
22	ASPHALT CONCRETE	
	General Requirements for Placing Asphalt Concrete and Asphalt Concrete Overlays	
	Pavement Key cutting, Conforms, and Planning	
	Tack Coat	
	Pavement Density Testing	
	Pay Factors	
		Gradation of Aggregate for Asphalt Concrete
		Mixing
		Compacting Equipment
23	BITUMINOUS SEALS	SEAL COAT- ARMOR TOP
	Bituminous Seal Type and Mix Design	
	Sand Seal	
	Slurry Seal	
	Chip Seal	
	Cape Seal	
	General Requirements	
24	CURBS, GUTTERS AND SIDEWALKS	CURBS, GUTTERS, SIDEWALK AND GUTTER DRAINS
	Concrete in Curbs, Gutters&Sidewalks	
	Concrete Cutting	
	Subgrade and Aggregate Base	
	Formwork- Non extruded Construction	
	Added	Deleted

S e c t i o n		
24	(continued)	
	Extruded (Slip-Form) Construction	
	Expansion Joints and Score Lines	
	Finishing Concrete Surfaces	
	Curing of Concrete	
	Damage and Repairs	
	Slope and Width of Sidewalks	
	Dowel Reinforcement	
	Curb Ramps and Driveways	
	Curbs and Gutter Reconstruction to accommodate Driveways	
	Payment	
25	SANITARY SEWER AND STORM DRAIN MANHOLES	MANHOLES AND FLUSHER BRANCHES
	Construction of Manholes (New or Reconstructed) reformatted	
26	LAYING SEWER AND DRAIN PIPE	
	Excavation (added trench widths tables)	
	Dewatering	
	Health and Safety	
	Pipe Materials	
	Drain and Ditch Box Leads	
		Sewer and Drainage Services
		Backfilling Pipe Trenches
27	WATER DISTRIBUTION SYSTEM	
	Corrosion Monitoring	
		Setting Fire Hydrants (see 27-7 and 10-31)
		Setting Gate Valves (see 27-7, 10-29 and 10-32)
		Backflow Prevention Assemblies and Swing Check Valves (see 27-7 and 10-49)
		Blow Offs (see 27-7)
		Connections to Existing Water Mains (see 27-14)

S e c t' N	Added	Deleted
28	DRIVEWAY CULVERT AND SIDEWALK FRENCH DRAINS	LAYING CULVERT AND DRAIN
	Laying Culvert and Drain title change to Driveway Culvert and Sidewalk French Drains completely new section	
	Driveway Culvert	
	Sidewalk French Drains	
		Laying Subsurface Drains
		Special Foundation Treatment
		Payment
29	MOVING OR CHANGING UTILITIES AND WATER SURFACE	
	Cooperation of Contractors During Relocation and Utility Connection	
30	DRAIN INLETS, GUTTER DRAINS AND DITCH BOXES	CAST- IN- PLACE CONCRETE PIPE
	Drain Inlets	
	Drain Inlet Grate and Hood	
	Gutter Drains	
	Water Quality Marking	
		Description
		Pipe Making Equipment
		Trench Excavation
		Special Foundation Treatment
		Placing Concrete
		Start and Close Sections
		Construction Joints
		Finish
		Forms
		Curing
		Quality Control
		Reimbursement for field Quality Control
		Backfill
		Loading During Curing

S e c t i o n	Added	Deleted
31	CONSTRUCTION OF CHAINLINK FENCE	
	Vinyl Slates	
		Redwood Slates
32	TRAFFIC SIGNS, MARKINGS, AND BARRICADES	MISCELLANEOUS FACILITIES
	Traffic Signs	
	Thermal Plastic Markings	
	Painted Pavement Markings	
	Raised Reflective Pavement Markers	
	Temporary Pavement Markings	
33	PNEUMATICALLY APPLIED MOTORS	
	Same paragraphs reformatted with updated language	
34	ELECTRICAL	
	Same paragraphs reformatted with updated language	
35	LANDSCAPE PLANTING	
	Planting Trees	
	Planting Shrub and Groundcover Areas	
	Planting Seed	
	Hydro-seed Placement	
	Hydro-seed Placement (non-irrigated Native Grass/Wildflower)	
	Sod Placement	
	Landscape Maintenance	
	Record Drawings and Controller Charts	
	Payment	
		Planting Plants and Seed (see 35-4 and 35-7)
36	IRRIGATION SYSTEM	
	Connection to Existing Park Mains changed to Connection to Existing Streetscape	

S e c t i o n	Added	Deleted
37	BORING AND JACKING	
	Single-Pass System	
	Two-Pass System	
	Grouting of Voids	
	Repaving in Excavated Areas	
		Direct Jacking of Reinforced Concrete Pipe or Reinforced Concrete Sewer Pipe
		Instillation of Conductor
		Pipe Placing in Conductor
		Backfilling Voids
38	STANDARD DETAILS have been renumbered and additional Details added. The numbers reflect the type of Public Work as follows: T-# = Transportation W-# = Water S-# = Storm and Sewer L-# = Landscaping EE-# = Electrical	

Attachment 3

Standard Specifications Update Procedure

INTRODUCTION

The current City of Sacramento "Standard Specifications for Public Works Construction" is dated March 21, 1989. The 18 year old document is out of date and, for each project, necessary changes must be communicated to contractors by amendments and special provisions. A revised City of Sacramento Standard Specifications for Public Construction (CSSS) has been presented to City Council for approval. The following is the procedure for keeping the CSSS current.

HARD BOUND COPIES AND ELECTRONIC VERSION

The City will continue to provide hard bound copies of the CSSS to interested parties so that references on construction contracts and plans can be made to a tangible document and so contractors, inspectors and others may have the complete, legal and binding documents available to them, regardless of computer availability, where and when the document is needed.

The CSSS, dated 2007, will be printed and bound for sale to the public and to outside agencies and/or distribution to city staff as in the past, in 8-1/2x11 format, as a single volume entitled "City of Sacramento Standard Specifications for Public Construction."

An electronic version of the CSSS, identical to the printed version, will be provided on the internet, in PDF format, linked to the City of Sacramento web site and to the City intranet.

ADDENDA

Many changes in technology and improvements in construction standards have occurred since the 1989 version was published. Currently, required corrections and changes, amendments and special provisions must to be made for each new project. There is no comprehensive record of the changes that have occurred, and on every new project it is required that one go through the process of identifying them anew.

To address this for future changes, all proposed changes to the technical specifications and drawings in the CSSS will be recorded, reviewed and approved in a standardized fashion, as described below. Approved addenda will be available on the internet in PDF format and hard copy versions will be updated regularly and made available to the public.

Addenda will be incorporated into public projects as follows: for development projects, a hard copy of all addenda will be given to, and be binding upon each contractor/developer for whom a project has been reviewed and approved; for public projects or CIPs, the addenda shall be incorporated into the special provisions for each project and shall be a part of the construction contract.

COMMITTEE

In order to update the CSSS in a timely manner and to maintain the addenda, a standing committee of City staff (CSSS committee or committee) will be formed consisting of one or more persons from each of the departments which regularly use the CSSS: DOT, DOU, General Services, Parks, and Development, with attendance by representatives from the City Clerk's office and City Attorney requested on an as-needed basis. The committee members may be the department personnel who are authorized to sign the standard drawings or another representative and they will be appointed by the directors of the respective departments. The committee will include a web master/secretary (secretary) and a chairperson and assistant chairperson. The chairperson and assistant chairperson will be elected by the committee members.

PROCESS

Department representatives (the committee members) may submit a proposed addendum, to revise or add to Sections 10 through 38, including standard drawings, at any time. A proposed addendum will be submitted to the secretary on a standard form and in a standardized format (to be developed and approved by the committee), logged in, and distributed to all committee members for review and comment. All comments will be returned to the secretary who will forward them to the originator for revision. The final addendum will be resubmitted to the secretary for final action at monthly committee meetings.

At monthly meetings, the committee will approve any addenda that have been submitted, reviewed and resubmitted since the previous meeting. To be approved, addenda will be listed on the agenda and sent in advance to all committee members, prior to the meeting. Final approval shall be by unanimous vote of all committee members present. No addenda shall be approved if the originator is not present.

Addenda approved by the committee must be signed by the City Manager to become effective. All duly approved addenda shall be designated "Addenda to the 2007 CSSS," shall be posted monthly to the City web site by the secretary. Hard copies of the approved addenda shall be produced by the secretary for distribution as indicated above.

REVISED STANDARD SPECIFICATIONS

The standing CSSS committee will also serve to compile periodic revisions to the CSSS every four years (next revision in 2011). The major portion of the revised CSSS will, of course, consist of the previously approved addenda items and any necessary additional items. Prior to presentation to the City Council for approval, the revised CSSS will be reviewed and approved by the committee and an appropriate outreach effort shall be conducted. After City Council approval, the revised CSSS shall be published, all previous addenda shall be removed from the web site, and the four year cycle will begin again.

Attachment 4
RESOLUTION NO.

Adopted by the Sacramento City Council

**REVISED STANDARD SPECIFICATIONS
FOR
PUBLIC CONSTRUCTION**

BACKGROUND

- A. The current Standard Specifications were adopted in 1989 and need to be updated to reflect current building materials, new drawings and revised procedures and requirements for the construction of public projects within the City of Sacramento.
- B. The revised Standard Specifications for Public Construction include modifications to the existing Standard Drawings and the inclusion of new drawings in a separate volume entitled "Standard Plans for Public Construction".
- C. Adoption of the revised Standard Specifications for Public Construction will improve and make more efficient the process for constructing public improvements and facilities in the City, whether the construction is performed by the City, by contractors, or by developers. Approval of a process to make future changes to the technical specifications and drawings will help maintain this benefit and result in lower cost for preparing plans and specifications for public improvements within the City of Sacramento.

**BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL
RESOLVES AS FOLLOWS:**

Section 1. The revised City of Sacramento Standard Specifications for Public Construction, including the separate volume titled "City of Sacramento Standard Plans for Public Construction," are approved and adopted.

Section 2. The City Manager is authorized to approve future revisions and additions to the technical specifications and drawings in the Standard Specifications for Public Construction, Sections 10 through 38, in accordance with the "Standard Specifications Update Procedure" included in the staff report for this item.