

# APPENDIX KK - Structures

## Table of Contents

APPENDIX KK - Structures .....	KK-i
Bridge Site Data Submittal .....	KK-3
Bridge Site Data Submittal - Soundwall .....	KK-13
Bridge Site Data Submittal - Non-Standard Retaining Wall .....	KK-19





**BRIDGE SITE DATA SUBMITTAL**

DS-P-0048 (REV. 6/93)

**SCHEDULING**

STIP \_\_\_\_\_ Fiscal Year

PS&E Date \_\_\_\_\_

Suggested Advertising Date \_\_\_\_\_

New Structure       Replacement       Modification

On:

Interstate Highway System       State Highway System

Scenic Highway System       Local Road System

Additional data for pumping plant is:

Not required       Required and date \_\_\_\_\_

**1. ACCESS**

Legal access to site is available from \_\_\_\_\_

Legal access not available. Office of Structure Design to check with District before field work.

Access to the site is restricted by environmental consideration.

Contact \_\_\_\_\_

at phone number \_\_\_\_\_ before any work is done at the site.

**2. ALIGNMENT AND GRADE**

Data attached includes:

Proposed alignment and ties to staked line or monuments

Lower roadway toe of slope grid grades

Grade line(s) which is (are) fixed \_\_\_\_\_

Grade line(s) which can be adjusted \_\_\_\_\_

Edge of deck grades (AC and PCC)

Superelevation Diagram

Office of Structure Design to expedite General Plan to District for final grade determination or for \_\_\_\_\_

Site Data Controls:

Survey lines and/or construction centerline staked and visibly marked.

Date of Survey \_\_\_\_\_

Survey lines and/or construction centerline to be staked upon request.

**3. APPROACHES**

AC     PCC pavement will be used on road approaches.

Full slope paving on approach fills recommended.

PS&E by:     Office of Structure Design     District

Approach slab for widening     needed     not needed to be determined by Pavement Rehabilitation Review Team.

**BRIDGE SITE DATA SUBMITTAL**

Page 3 of 9

DS-P-0048 (REV. 6/93)

**4. BENCH MARKS**

- Bench marks and monuments in immediate vicinity of site shown on site plan, include location, description and elevation.
- Vertical control datum is:
  - NGVD Date of Adjustment \_\_\_\_\_
  - District     As-Built     Assumed

**5. BRIDGE RAIL/GUARD RAIL**

- District recommends standard railing
- District recommends Type \_\_\_\_\_ as shown on enclosed drawings.
- Structure located on superelevation transition, possibly affecting rail profile. Office of Structure Design to comment.
- Locations of metal beam guard railing shown on site data. Office of Structure Design to provide suitable connections at ends of bridge rail. Metal beam guard railing to be included in District PS&E.
- Median barrier railing on structure. Type \_\_\_\_\_ is recommended.
- Glare screen required.
- See "Additional Data"

**6. CLEARANCES**

- \_\_\_\_\_ feet minimum horizontal clearance to column or abutment from right edge of pavement and \_\_\_\_\_ feet from left edge of pavement with respect to direction of traffic.
- Vertical clearance of \_\_\_\_\_ feet required over initial and ultimate traveled ways, \_\_\_\_\_ feet over shoulders (includes) \_\_\_\_\_ feet additional clearance required under Pedestrian or Cyclist Overcrossings.
- Vertical clearance controls per attached calculations. Structure depths used in establishing grades are listed below  and are in accordance with Office of Structure Design Advance Planning Study dated \_\_\_\_\_.
- See "Hydraulic Data" for estimated peak High Water elevation.
- Match existing
- Columns or pier permitted in the median.
- Railroad off-track Maintenance Road and/or future track requirements shown on Site Plan.

**7. COORDINATION**

- District to submit Bridge General Plan to local authorities for approval. District to notify Office of Structure Design before Office of Structure Design proceeds with structure design.
- District will request Department of Fish and Game approval upon receipt of necessary data from Office of Structure Design.
- Copies of pertinent correspondence from local authorities are attached (Reclamation Board, Flood Control Districts, etc.).

**BRIDGE SITE DATA SUBMITTAL**

DS-P-0048 (REV. 6/93)

**8. CORROSION CLASSIFICATION**

- Site is not considered corrosive.
- Site is considered corrosive. Corrosion test sheets are attached.
- Site is within 1,000 feet of ocean or tidal water.
- Data not available at this time. Will be furnished when available.

**9. DECK PROTECTION**

- The structure  will  will not be exposed to de-icing salts or chemicals.
- The structure's riding surface  will  will not be exposed to chain use.

**10. DESIGN SPEED/SIGHT DISTANCE**

- Design speeds shown on plans.
- Design speeds are: \_\_\_\_\_ mph.
- Factors affecting sight distance:  None  See "Additional Data".

**11. DETOUR**

- None required.
- Traffic to use existing facilities.
- Traffic can be detoured.
- Required. Traffic to \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Stage construction required. See "Additional Data". (Include proposed traffic handling and Sequence of Operations).
- See "Falsework".
- Office of Structure Design to review and comment.

**12. DISPOSAL OF OLD BRIDGE**

- No restrictions.
- Removal can be accomplished after construction. PS&E by Office of Structure Design.
- Existing structure to remain in place for \_\_\_\_\_ traffic.
- Traffic can be:  detoured  temporarily stopped.
- Disposition of salvageable material to be handled by Office of Structure Design.
- Protective cover over lower roadway needed. PS&E by Office of Structure Design.

**13. DRAINAGE**

- District will provide shoulder drains on approaches near high end(s) of structure to prevent drainage crossing end(s) of structure.
- Accumulated surface water to be carried on structure across freeway. Special sealing at structure ends and seat type abutments to be provided by Office of Structure Design. (This may be expensive. Should be discussed by District and Structure designer).

**BRIDGE SITE DATA SUBMITTAL**

DS-P-0048 (REV. 6/93)

**14. ENVIRONMENTAL IMPACT REPORT**

- Attached
- Not applicable

**15. FALSEWORK**

- No restrictions. No traffic.
- Falsework not allowed over traffic. State construction required as detailed under "Additional Data" and attached plans.
- Falsework openings to have:
  - Type K temporary railings adjacent to traffic
  - Crash Cushions adjacent to end of railings.
- Grades are set to provide minimum falsework depths per Highway Design Manual.  
Provide \_\_\_\_\_ opening(s) in falsework: \_\_\_\_\_ wide by \_\_\_\_\_ high,  
located \_\_\_\_\_  
Covered pedestrian passageways to be \_\_\_\_\_ wide by \_\_\_\_\_ high,  
located \_\_\_\_\_
- Falsework lighting is (not) required.
- Traffic is not to be interrupted between the hours of \_\_\_\_\_ to \_\_\_\_\_ and  
\_\_\_\_\_ to \_\_\_\_\_ on weekdays and not at all on Saturdays, Sundays and Holidays.
- Traffic may be interrupted at any other time only for erection of prefabricated girders, erection or removal  
of falsework or removal of portions of existing structure or \_\_\_\_\_
- It is estimated that future maintenance painting could (not) be performed without excessive interruptions  
or hazards to traffic.
- Railroad traffic will be carried:
  - on new alignment
  - on shoofly
  - through bridge construction area

**16. FUTURE WIDENING**

- None.
- Shown on District drawing.
- See "Additional Data".

**17. HYDRAULIC DATA**

- Available hydrologic and hydraulic data and pertinent correspondence included. See "Additional Data".
- No hydrologic or hydraulic data available.
- District proposes channel protection as follows: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**BRIDGE SITE DATA SUBMITTAL**

DS-P-0048 (REV. 6/93)

- District proposes \_\_\_\_\_ feet minimum clearance above  Q 50  Q 100 peak highwater elevation of \_\_\_\_\_ feet. Division of Structures to verify.
- Proposed structure drainage design to be included with Structures General Plan for District's coordination with roadway drainage.
- See "Additional Data".

**18. LOADING**

- Structure on "SHELL" Route.
- \_\_\_\_\_ structure to carry construction overloads.
- No special construction loading.

**19. OBSTRUCTIONS**

- None existing other than those stated under Utility requirements.
- Traffic  Existing bridge  Water flow
- Overhead wires  Buried utilities  \_\_\_\_\_
- Listed below are those obstruction that are to remain in place or will be moved to locations where they could interfere with design or construction: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**20. RETAINING WALLS (By District except for special designs).**

- None required.
- Shown on District site plan.
- Special design required.
- PS&E by:  Office of Structure Design  District
- See "Additional Data".

**21. SIDEWALK ON STRUCTURE**

- None required.
- Sidewalk(s) required as indicated.
- Sidewalk(s) required to connect to existing system of sidewalks.
- Subdivision activities in the immediate area indicate that construction of a connecting system of sidewalks is imminent.
- Overcrossing screening required on \_\_\_\_\_ side(s). PS&E by Office of Structure Design.
- Sidewalk and railing as shown conform to requirements of local authorities and/or sight distance requirements.

**BRIDGE SITE DATA SUBMITTAL**

Page 7 of 9

DS-P-0048 (REV. 6/93)

**22. STORAGE FACILITIES**

- No restrictions       Restricted
- Due to physical restrictions and hazards to traffic in the immediate vicinity of the bridge construction site, on-site storage of fabricated girders is not available.
- Fabrication of girders or storage of material should not be allowed within \_\_\_\_\_ feet of edge of shoulder of freeway or \_\_\_\_\_ feet of other roads.

**23. STRIP MAP**

- Attached.
- Previously submitted with letter of \_\_\_\_\_.

**24. STRUCTURE TYPE RECOMMENDATIONS**

- None. Division of Structures to recommend type. Aesthetic considerations to be consistent with neighboring structures.
- Type selection to accommodate anticipated future widening.
- Closed end.
- Open end type with \_\_\_\_\_ : \_\_\_\_\_ end slopes starting \_\_\_\_\_ feet minimum from edge of pavement.
- See "Additional Data" for unusual or special aesthetic considerations.

**25. UTILITY REQUIREMENTS**

- All existing utilities shown on District Site Plan.
- All existing utilities in conflict with the structure except as listed below will be removed or relocated by District  prior to,  concurrent with construction.
- Existing utilities that are to remain are: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

These utilities  are  will be tied to survey construction lines,  will be staked by District shortly before structure foundation work (excavation, pile driving or drilling).

- No utilities to be carried on structure.
- Information on utilities to be carried on structure,
- Complete Utility Information Sheet DS-P58  attached  will be forwarded at a later date  listed below.
- Highway operational utilities in structure, *i.e.* lighting traffic signals, etc.  
Manhole frames and covers to be placed in bridge decks to be furnished by the  Utility Company  State.

**Water Line Requirements for Landscaping**

- None required.
- Data to be furnished by District upon receipt of Bridge General Plan.
- \_\_\_\_\_"  Galvanized  Plastic pipe should be used.







## Bridge Site Data Submittal - Soundwall

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
 BRIDGE SITE DATA SUBMITTAL  
 DS-P0049 (Rev. 10/90)

# SOUNDWALL

To:

( ) Office of Structure Design  
 Sacramento

Date \_\_\_\_\_

Dist \_\_\_\_ Co \_\_\_\_ Rte \_\_\_\_ PM \_\_\_\_

( ) Office of Structure Design  
 Los Angeles

Charge \_\_\_\_\_ EA \_\_\_\_\_

From:

Project Limits \_\_\_\_\_

Department of Transportation  
 District \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Design Engineer:

Project Engineer:

ATSS Phone No. \_\_\_\_\_

Subject: SOUNDWALL SITE DATA SUBMITTAL

Sound Wall Name: \_\_\_\_\_

Attached are control data and reproducibles of the following drawings:

	Drawing Nos.
( ) Strip Map.	_____
( ) Site Plan. Date of Aerial Survey _____.	_____
( ) Site Plan. Total Station Survey.	_____
( ) Profiles (Top and bottom of wall)	_____
( ) Typical Sections.	_____
( ) Cross Sections (1"=5' Scale)	_____
( ) Copy of Field Survey Notes (including Reference Points, if any).	_____
( ) Calculated Grade Sheets.	_____
( ) Traverse Sheets & Calculated Alinement Ties	_____
( ) List of Bench Marks	_____
( ) List of Field Monuments - Locations, Description, Coordinates.	_____
( ) Detour or Stage Construction Plans.	_____
( ) Drainage Data	_____
( ) Sound Wall Layout Plans	_____
( ) Utility Locations & Elevations	_____
( ) Correspondence.	_____
( ) Other Data (Photos, As-Built, Architectural Treatment & Landscape Requirements	_____

SCHEDULING

STIP \_\_\_\_\_ Fiscal Year.

PS&E Date \_\_\_\_\_.

Suggested Advertising Date \_\_\_\_\_.

ON:

- |                                                    |                                               |
|----------------------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> Interstate Highway System | <input type="checkbox"/> State Highway System |
| <input type="checkbox"/> Scenic Highway System     | <input type="checkbox"/> Local Road System    |

1. ACCESS

- Legal access to site is available from \_\_\_\_\_.
- Legal access if available from both sides of sound wall.
- Legal access not available. Office of Structure Design to check with District before field work.
- Access to the site is restricted by environmental consideration. Contact \_\_\_\_\_ at phone number \_\_\_\_\_ before any work is done at the site.

2. ALINEMENT AND GRADE

Data attached includes:

- Proposed alinement and ties to staked line or monuments.
- Lower roadway toe of slope grid grades.
- Grade line(s) which is (are) fixed \_\_\_\_\_.
- Grade line(s) which can be adjusted \_\_\_\_\_.
- Superelevation Diagram.

Site Data Controls:

- Survey lines and/or construction centerline staked and visibly marked. Date of Survey \_\_\_\_\_.
- Survey lines and/or construction centerline to be staked upon request.

3. BENCH MARKS

( ) Bench marks and monuments in immediate vicinity of site shown on site plan, include location, description and elevation.

( ) Vertical control datum is ( ) NGVD date of adjustment \_\_\_\_\_ ( ) District ( ) As-Built ( ) Assumed.

4. BARRIER TYPE RECOMMENDATIONS (Sound wall on barrier)

( ) District recommends Type \_\_\_\_\_ Barrier.

( ) Shown on enclosed drawings.

5. CHECKED DATA:

Data which has been checked:

( ) Alinements and Traverses

( ) Grade Lines and Superelevations

6. APPROVED HORIZONTAL CLEARANCE

( ) \_\_\_\_\_ft. minimum horizontal clearance from edge of roadway to sound wall.

7. COORDINATION

( ) District to submit "Sound Wall General Plan" to local authorities for approval. District to notify Office of Structure Design before Office of Structure Design proceeds with structure design.

( ) Copies of pertinent correspondence from local authorities are attached (Rec. Board, Flood Control Districts, etc.).

8. CORROSION CLASSIFICATION

( ) Site is not considered corrosive.

( ) Site is considered corrosive. Corrosion test sheets are attached.

( ) Site is within 1,000 feet of ocean or tidal water.

( ) Data not available at this time. Will be furnished when available.

9 . DETOUR

- None required.
- Traffic to use existing facilities.
- Required. Traffic to \_\_\_\_\_  
\_\_\_\_\_
- Stage construction required. See "Additional Data".  
(Include proposed traffic handling and Sequence of  
Operations).
- Office of Structure Design to review and comment.

10. ENVIRONMENTAL IMPACT REPORT (Portions affecting sound walls)

- Attached.
- Not applicable.

11. TEMPORARY RAILING

- None required. Traffic will be out of construction area.
- Temporary railing(s) will be required during detour or  
stage construction phases.

12. GUARD RAILING

- Approach guard railing is recommended. PS&E by Office of  
Structure Design.
- Locations of metal beam guard railing shown on site data.  
Office of Structure Design to provide suitable  
connections at ends of barrier. Metal beam guard railing  
to be included in District's PS&E.

13. OBSTRUCTIONS

- None existing other than those stated under Utility  
requirements.
- Traffic
- Listed below are those obstruction that are to remain in  
place or will be moved to locations where they could  
interfere with design or construction.  
\_\_\_\_\_

14. RETAINING WALLS (Sound wall on retaining wall is a special design)

- None required.
- Shown on District site plan.
- Special design required.
- PS&E by  Office of Structure Design.  District.
- See "Additional Data".

15. STORAGE FACILITIES

- No restrictions.  Restricted.
- Due to physical restrictions and hazards to traffic in the immediate vicinity of the sound wall construction site, on-site storage of prefabricated sound walls is not available.
- Fabrication of precast sound walls not permitted in R/W.
- Fabrication of sound walls or storage of material should not be allowed within \_\_\_\_\_ ft of edge of shoulder of freeway or \_\_\_\_\_ ft of other roads.

16. SOUND WALL TYPE RECOMMENDATIONS

- None. Office of Structure Design to recommend type. Aesthetic considerations to be consistent with neighboring structures.
- Concrete Masonry Block
- Precast Concrete Panels
- Cast-in-place concrete
- Metal
- Wood
- Other \_\_\_\_\_

17. TEMPERATURE RANGE

Approximate air temperature range from a low of \_\_\_\_\_°F to a high of \_\_\_\_\_°F.

18. UTILITY REQUIREMENTS

- ( ) All existing utilities shown on District Site Plan.
- ( ) All existing utilities in conflict with the sound wall except as listed below will be removed or relocated by District ( ) prior to, ( ) concurrent with construction.
- ( ) Existing utilities that are to remain are:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

These utilities ( ) are ( ) will be tied to survey construction lines, ( ) will be staked by District shortly before structure foundation work (excavation, pile driving or drilling).

19. ADDITIONAL DATA

\_\_\_\_\_  
Project Engineer

\_\_\_\_\_  
Design Engineer

cc: Traffic Department  
R/W Utilities Relocation  
Office of Structure Design



SCHEDULING

STIP \_\_\_\_\_ Fiscal Year.

PS&E Date \_\_\_\_\_.

Suggested Advertising Date \_\_\_\_\_.

ON:

- |                                                    |                                               |
|----------------------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> Interstate Highway System | <input type="checkbox"/> State Highway System |
| <input type="checkbox"/> Scenic Highway System     | <input type="checkbox"/> Local Road System    |

1. ACCESS

- Legal access to site is available from \_\_\_\_\_.
- Legal access if available from both sides of sound wall.
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- Access to the site is restricted by environmental consideration. Contact \_\_\_\_\_ at phone number \_\_\_\_\_ before any work is done at the site.

2. ALINEMENT AND GRADE

Data attached includes:

- Proposed alinement and ties to staked line or monuments.
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- Superelevation Diagram.

Site Data Controls:

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3. BENCH MARKS

- Bench marks and monuments in immediate vicinity of site shown on site plan, include location, description and elevation.
- Vertical control datum is  NGVD date of adjustment \_\_\_\_\_ .  District  As-Built  Assumed.

4. BARRIER TYPE RECOMMENDATIONS (Sound wall on barrier)

- District recommends Type \_\_\_\_\_ Barrier.
- Shown on enclosed drawings.

5. CHECKED DATA:

Data which has been checked:

- Alinements and Traverses
- Grade Lines and Superelevations

6. APPROVED HORIZONTAL CLEARANCE

- \_\_\_\_\_ ft. minimum horizontal clearance from edge of roadway to sound wall.

7. COORDINATION

- District to submit "Sound Wall General Plan" to local authorities for approval. District to notify Office of Structure Design before Office of Structure Design proceeds with structure design.
- Copies of pertinent correspondence from local authorities are attached (Rec. Board, Flood Control Districts, etc.).

8. CORROSION CLASSIFICATION

- Site is not considered corrosive.
- Site is considered corrosive. Corrosion test sheets are attached.
- Site is within 1,000 feet of ocean or tidal water.
- Data not available at this time. Will be furnished when available.

9 . DETOUR

- None required.
- Traffic to use existing facilities.
- Required. Traffic to \_\_\_\_\_  
\_\_\_\_\_
- Stage construction required. See "Additional Data".  
(Include proposed traffic handling and Sequence of  
Operations).
- Office of Structure Design to review and comment.

10. ENVIRONMENTAL IMPACT REPORT (Portions affecting sound walls)

- Attached.
- Not applicable.

11. TEMPORARY RAILING

- None required. Traffic will be out of construction area.
- Temporary railing(s) will be required during detour or  
stage construction phases.

12. GUARD RAILING

- Approach guard railing is recommended. PS&E by Office of  
Structure Design.
- Locations of metal beam guard railing shown on site data.  
Office of Structure Design to provide suitable  
connections at ends of barrier. Metal beam guard railing  
to be included in District's PS&E.

13. OBSTRUCTIONS

- None existing other than those stated under Utility  
requirements.
  - Traffic
  - Listed below are those obstruction that are to remain in  
place or will be moved to locations where they could  
interfere with design or construction.
- \_\_\_\_\_

14. RETAINING WALLS (Sound wall on retaining wall is a special design)

- None required.
- Shown on District site plan.
- Special design required.
- PS&E by  Office of Structure Design.  District.
- See "Additional Data".

15. STORAGE FACILITIES

- No restrictions.  Restricted.
- Due to physical restrictions and hazards to traffic in the immediate vicinity of the sound wall construction site, on-site storage of prefabricated sound walls is not available.
- Fabrication of precast sound walls not permitted in R/W.
- Fabrication of sound walls or storage of material should not be allowed within \_\_\_\_\_ ft of edge of shoulder of freeway or \_\_\_\_\_ ft of other roads.

16. SOUND WALL TYPE RECOMMENDATIONS

- None. Office of Structure Design to recommend type. Aesthetic considerations to be consistent with neighboring structures.
- Concrete Masonry Block
- Precast Concrete Panels
- Cast-in-place concrete
- Metal
- Wood
- Other \_\_\_\_\_

17. TEMPERATURE RANGE

Approximate air temperature range from a low of \_\_\_\_\_°F to a high of \_\_\_\_\_°F.

18. UTILITY REQUIREMENTS

- ( ) All existing utilities shown on District Site Plan.
- ( ) All existing utilities in conflict with the sound wall except as listed below will be removed or relocated by District ( ) prior to, ( ) concurrent with construction.
- ( ) Existing utilities that are to remain are:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_.  
These utilities ( ) are ( ) will be tied to survey construction lines, ( ) will be staked by District shortly before structure foundation work (excavation, pile driving or drilling).

19. ADDITIONAL DATA

\_\_\_\_\_  
Project Engineer

\_\_\_\_\_  
Design Engineer

cc: Traffic Department  
R/W Utilities Relocation  
Office of Structure Design