

 Office of Structures <i>Guidelines and Procedures</i> <i>Memorandum</i>	PLANS
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STRUCTURE PLAN SHEET ORDER	Approval: 

OVERVIEW

This guideline has been developed to provide a general order of sheets for all structure plans being developed for SHA projects and for anyone developing plans for structures that will be owned by SHA. Please note that not all items may be listed in the sheets below but can be placed in the appropriate location in the plans by grouping with similar elements (i.e. superstructure, substructure, etc.). This guideline only applies to structure plans and not the order of non-structural plan sheets.

NEW BRIDGES AND BRIDGE REPLACEMENTS

The following is a list of anticipated plans for new and replacement structures.

1. General Plan and Elevation (GP&E) including General Notes (If General Notes will not fit on this sheet, they can follow on a separate sheet)
2. Hydrology and Hydraulics
3. Sequence of Construction – Superstructure
4. Geometric Layout

Abutment A Details

5. Abutment A Plan and Elevation
6. Abutment A Wing Wall Elevations
7. Sequence of Construction Abutment A
8. Abutment A Pile Layout
9. Abutment A Footing Top and Bottom Mat Reinforcing Layout
10. Abutment A Details (Horizontal Sections through abutments stems)
11. Abutment A Details (Vertical Sections through abutments stems)
12. Miscellaneous Abutment A Details (Pilasters, construction joints, scour protection, etc.)

Abutment B Details

13. Abutment B Plan and Elevation
14. Abutment B Wing Wall Elevations
15. Sequence of Construction Abutment B
16. Abutment B Pile Layout
17. Abutment B Footing Top and Bottom Mat Reinforcing Layout
18. Abutment B Details (Horizontal Sections through abutments stems)
19. Abutment B Details (Vertical Sections through abutments stems)
20. Miscellaneous Abutment B Details (Pilasters, construction joints, scour protection, etc.)
21. Abutment Pile Details (for caissons, pipe piles, etc.)

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Wing Wall Details

- 22. Wing Wall section details.
- 23. Miscellaneous Wing Wall Details

Pier Details

- 24. Pier Plan and Elevation
- 25. Sequence of Construction Pier
- 26. Pier Pile Layout
- 27. Pier Pile Details
- 28. Pier Footing Top and Bottom Mat Reinforcing Layout
- 29. Pier Typical Sections
- 30. Miscellaneous Pier Details (construction joints, temporary pier supports, scour protection, etc.)

Superstructure Details

- 31. Typical Section
- 32. Deck Pouring Sequence
- 33. Framing Plan
- 34. Girder Elevation
- 35. Girder Camber/Deflection Diagram
- 36. Girder Details (Cross Frames, Bearing Stiffeners, Splices, etc.)
- 37. Miscellaneous Superstructure Details
- 38. Deck Elevations
- 39. Parapet Joint Spacing if it does not clearly fit on the Elevation view)
- 40. Structural Details (Arranged by type of detail, i.e. Substructure Details, Bridge Deck Details, Parapet Details, Structural Steel Details, etc.)
- 41. Borings and Drive Tests

DECK OR SUPERSTRUCTURE REPLACEMENT AND REHABILITATION

The following is a list of anticipated plans for structures with a deck or superstructure replacement.

- 1. General Plan and Elevation (GP&E) including General Notes (If General Notes will not fit on this sheet, they can follow on a separate sheet)
- 2. Hydrology and Hydraulics
- 3. Deck Removal Restrictions

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4. Sequence of Construction – Superstructure
5. Geometric Layout

Abutment A Details

6. Abutment A Plan and Elevation
7. Abutment A Wing Wall Elevations
8. Sequence of Construction Abutment A
9. Abutment A Details (Horizontal Sections through abutments stems)
10. Abutment A Details (Vertical Sections through abutments stems)
11. Miscellaneous Abutment A Details (Pilasters, construction joints, scour protection, etc.)

Abutment B Details

12. Abutment B Plan and Elevation
13. Abutment B Wing Wall Elevations
14. Sequence of Construction Abutment B
15. Abutment B Details (Horizontal Sections through abutments stems)
16. Abutment B Details (Vertical Sections through abutments stems)
17. Miscellaneous Abutment B Details (Pilasters, construction joints, scour protection, etc.)
18. Abutment Pile Details (for caissons, pipe piles, etc.)

Wing Wall Details

19. Wing wall section details.
20. Miscellaneous Wing Wall Details

Pier Details

21. Pier Plan and Elevation
22. Sequence of Construction Pier
23. Pier Pile Layout
24. Pier Pile Details
25. Pier Footing Top and Bottom Mat Reinforcing Layout
26. Pier Typical Sections
27. Miscellaneous Pier Details (construction joints, temporary pier supports, scour protection, etc.)

Superstructure Details

28. Typical Section
29. Deck Pouring Sequence
30. Framing Plan
31. Girder Elevation

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32. Girder Camber/Deflection Diagram
33. Girder Details (Cross Frames, Bearing Stiffeners, Splices, etc.)
34. Miscellaneous Superstructure Details
35. Deck Elevations
36. Parapet Joint Spacing if it does not clearly fit on the Elevation view)
37. Structural Details (Arranged by type of detail, i.e. Substructure Details, Bridge Deck Details, Parapet Details, Structural Steel Details, etc.)

DECK OVERLAY

The following is a list of anticipated plans for structures with a Latex Modified Concrete (LMC) deck overlay.

1. General Plan and Elevation (GP&E) including General Notes (If General Notes will not fit on this sheet, they can follow on a separate sheet)
2. Deck Removal Restrictions (when portions of the deck or parapet are being replaced in their entirety)
3. Sequence of Construction – Superstructure
4. LMC Overlay Notes and Details

Abutment A

5. Abutment A Removal – Plan and Elevation (when backwalls are being replaced)
6. Abutment A Reconstruction – Plan and Elevation
7. Abutment A Wing Wall Removal Elevation
8. Abutment A Wing Wall Reconstruction Elevation
9. Abutment A Backwall Details
10. Abutment A Cheekwall Modifications

Abutment B

11. Abutment B Removal – Plan and Elevation (when backwalls are being replaced)
12. Abutment B Reconstruction – Plan and Elevation
13. Abutment B Wing Wall Removal Elevation
14. Abutment B Wing Wall Reconstruction Elevation
15. Abutment B Backwall Details
16. Abutment B Cheekwall Modifications
17. Wing Wall Typical Section
18. End Post Modification Details
19. Superstructure Typical Section

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20. Framing Plan and Deck Pouring Sequence
21. Parapet Replacement Details
22. Joint Replacement Details
23. Structural Details (arranged by type of detail)

PIPES AND CULVERTS

The following is a list of anticipated plans for new and replacement culverts (pipes or box culverts).

1. General Plan and Elevation (GP&E) including General Notes (If General Notes will not fit on this sheet, they can follow on a separate sheet)
2. Hydrology and Hydraulics
3. Pipe (or Culvert) Profile and Section
4. Headwall (or Endwall) Plan and Elevation – Upstream
5. Headwall (or Endwall) Plan and Elevation – Downstream
6. Headwall Details
7. Wing Wall Elevations
8. Wing Wall Section Details.
9. Miscellaneous Wing Wall Details
10. Structural Details (arranged by type of detail)
11. Borings and Drive Tests

RETAINING WALLS

The following is a list of anticipated plans for new and replacement retaining wall structures. Please note that some retaining walls may require additional plans or information that is not contained in the list below.

1. General Plan and Elevation (GP&E) including General Notes (If General Notes will not fit on this sheet, they can follow on a separate sheet)
2. Geometric Layout
3. Typical Sections
4. Retaining Wall Pile Layout
5. Retaining Wall Pile Details
6. Miscellaneous Details (architectural treatment, special features, etc.)
7. Structural Details (arranged by type of detail)
8. Borings and Drive Tests