Final Design Checklist
Steel Girder Bridge Sheets

Project Name: _____ Project No.: _____

Designer: _____

Project Manager: _____ Submittal Date: _____

Reviewer: _____ Review Date: _____

	Designer / Quality Control					Comments
GENERAL INFORMATION:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Use standard MCDOT plan and profile border						
Follow MCDOT CADD and Drafting Guidelines						
STEEL GIRDER BRIDGE CONSTRUCTION DOCUMENTS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Key Map and Index of Drawings: Show key map and provide index of drawings. Indicate within the index of sheets any drawings/sheets that are not included in the submittal. The key map should contain proposed and existing conditions in plan view						
General Plan and Elevation: Include contours, existing and proposed utilities, alignments, proposed structure line work, existing conditions, North arrow, and a scale in plan view. Include bearings and annotation for proposed bents, begin and end of bridge/deck, bridge/deck dimensions, bridge/slab alignment, and existing conditions in plan view. Plan and elevation scale to be the same. Provide annotation and dimensions for bridge/deck, begin and end bridge/deck, existing conditions, proposed bents, bridge/slab length, bearing distances, vertical clearance, and match lines if necessary in elevation view. Profile grade lines should also be included, with annotation, in the Elevation view						
Typical Sections: These sheets detail typical sections from a designated bridge span. The sections include annotation and dimensions of clear roadway, out of bridge, lane configuration, and roadway slope. Sections will include superstructure and substructure (i.e. barriers, deck, girders, piers, columns, drilled shafts, etc.) without reinforcement. Annotation must specify type of material and size of individual structures in the typical sections. Must provide control points (alignment locations, etc.) within the typical sections						
General Notes and Quantities: Provide general notes that includes but not limited to a general description of construction and design specifications, loads, stresses, and materials. Provide list or table of quantities. Provide a legend, abbreviations, and any standards applicable						
Payment Limits: This sheet should provide and include sections of individual structures (typical wing wall, abutments, retaining walls, etc.) that includes limits of structural backfill, structural excavation, and roadway embankment in necessary. Provide notes for any clarification of pay limits						
Construction Phasing (if needed)						
Foundation Layout: This sheet includes a plan view of the construction area showing the proposed foundations, proposed and existing alignments, and existing utilities. Dimensions between foundations should be visible as well as descriptions of each type of foundation. Abutments or structures with multiple foundations shall have dimensions associating to the bridge alignment. Bearings of each foundation construction line shall be present. Provide drilled shaft elevation information if necessary						
Foundation Details: Included in this sheet is an elevation view and typical section of the proposed foundation type. The elevation view should include dimensions and annotation for foundation reinforcement. Each foundation type should be accounted for on this sheet. Typical sections should show reinforcement. General notes and foundation load data should be accounted for on this sheet as well						

Final Design Checklist
Steel Girder Bridge Sheets

Project Name: _____ Project No.: _____

Designer: _____

Project Manager: _____ Submittal Date: _____

Reviewer: _____ Review Date: _____

	Designer		Quality Control			Comments
Abutment 1 Plan and Elevation: Included on this sheet is a plan view and elevation view of abutment #1. In plan view, dimensions shall be provided for girder spacing, total length of abutment, distance from alignment to outside edge of abutment, bearing pad spacing, width dimensions associated with the centerline bearing of abutment #1. Section callouts shall be provided to reference abutment #1 section and detail sheet. In the elevation view, the construction centerline, abutment step elevations, total abutment length, foundation spacing, and notes should be annotated and/or shown as dimensions. The scale of the plan view should match the elevation view						
Abutment 2 Plan and Elevation: Included on this sheet is a plan view and elevation view of abutment #2. In plan view, dimensions shall be provided for girder spacing, total length of abutment, distance from alignment to outside edge of abutment, bearing pad spacing, width dimensions associated with the centerline bearing of abutment #2. Section callouts shall be provided to reference abutment #2 section and detail sheet. In the elevation view, the construction centerline, abutment step elevations, total abutment length, foundation spacing, and notes should be annotated and/or shown as dimensions. The scale of the plan view should match the elevation view						
Abutment 1and Wing walls Details: This sheet provides typical sections referencing back to Abutment #1 plan and elevation sheet. The abutment typical section should show reinforcement, proposed grade, bearing centerline of abutment, dimension for height and width, and annotation for foundation(s) and reinforcement. Wing wall sections provided on this sheet show reinforcement, dimensions of wing walls and abutment, and bearing centerline of abutment. An elevation view of the wing wall showing reinforcement is also provided						
Abutment 2 and Wing walls Details (if different from Abutment 1): This sheet provides typical sections referencing back to Abutment #2 plan and elevation sheet. The abutment typical section should show reinforcement, proposed grade, bearing centerline of abutment, dimension for height and width, and annotation for foundation(s) and reinforcement. Wing wall sections provided on this sheet show reinforcement, dimensions of wing walls and abutment, and bearing centerline of abutment. An elevation view of the wing wall showing reinforcement is also provided						
Pier/s Plan and Elevation sheet/s: Provided on these sheets are plan and elevation views for each Pier. Each pier plan should include the following dimensions and respective annotation: bearing pad and girder spacing, foundation (drilled shaft) and column spacing, width and length of pier. The bridge alignment and bearing centerline of the pier is also needed. Each pier elevation should include the following annotations and/or dimensions: type of foundation, size of column, bridge alignment location, reference callouts for seat elevations, bottom of pier cap elevations, centerline of column, and section callouts. A bearing seat elevations table or list shall be provided on these sheets as well						
Pier Details: Provide plan and section showing reinforcement						
Girder Layout Sheet/s : A plan view is provided showing bridge spans, bridge piers and abutments, and girder placement. Annotation and/or dimensions are provided for girder spacing, centerline of piers and abutments, and bridge centerline stationing						

Final Design Checklist
Steel Girder Bridge Sheets

Project Name: _____ Project No.: _____

Designer: _____

Project Manager: _____ Submittal Date: _____

Reviewer: _____ Review Date: _____

	Designer / Quality Control					Comments
Deck Layout Sheet/s (including Pouring Sequence): A plan view showing the proposed bridge alignment, proposed bridge line work, approach slab and anchor slab is provided. If necessary, dimensions are provided for additional reinforcement bundles along bridge alignment stationing. Construction centerline of piers and abutments are also visible in the deck plan. A deck pour schedule is also provided in which a plan view of the bridge is shown with callouts and hatching. General notes are also provided to describe the deck pour. A detail showing additional top deck reinforcement at pier locations may also be provided. Provide construction joint details and barrier open joint at pier as well						
Typical Deck Section: A section is provided for a specific span of the bridge. Reinforcement within the deck is shown. Barriers and girders are also included in the section. Dimensions and/or annotation is provided for reinforcement, barrier type, girder spacing, overhang length, girder type, the slope of deck. Superstructure general notes are also provided for descriptions of deck reinforcement						
Girder Elevation Details A: girder elevation, typical section, additional top and bottom steel plates details, splice plate details, bolts or rivets details, and girder notes are provided						
Camber Diagram: Provide deflection information						
Diaphragms Details: Show the size of the steel members, gusset plate details and the connection details						
Abutment Bearing Details: Provide type of bearing details (expansion or fixed, type of bearing such as elastomeric pads, steel rocker or different kinds)						
Pier Bearing Details: Provide type of bearing details (expansion or fixed, type of bearing such as elastomeric pads, steel rocker or different kinds)						
Miscellaneous Details (Utilities, Parapet and Fence Details, etc.): Update details as necessary. Dimensions and/or annotation accompany all details, plan views, elevation views, and sections. Bearing pad general notes						
Screed Elevation Sheet/s						
Approach Slab Elevations						
Foundation Data Sheet/s						
ADOT Standard Details						
OTHERS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	

Final Design Checklist
Bridge Plan & Elevation Sheets

Project Name: _____ Project No.: _____

Designer: _____

Project Manager: _____ Submittal Date: _____

Reviewer: _____ Review Date: _____

	Designer / Quality Control					Comments
GENERAL INFORMATION:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Use standard MCDOT plan and profile border						
Compile plan and elevation on the same sheet (exceptions may be granted by MCDOT)						
Follow MCDOT CADD and Drafting Guidelines						
EXISTING PLAN REFERENCES:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Show existing control information such as section lines, corners, monuments and benchmarks						
Show existing right-of-way and easements						
Show existing parcel boundaries and ownership						
Show existing features pertaining to pavement, drainage and vegetative						
Show existing roadway features such as pavement, driveways, guardrail, signs and signals						
Show existing drainage features such as riprap, streams, pipes, culverts and structures						
Show existing houses and improvements features such as mailboxes, decks, patios, fences, walls and gazebos						
Show existing utility features such as poles, lines, utility boxes and structures						
Show existing contours (at 1' interval) (exceptions may be granted by MCDOT)						
PROPOSED PLAN DETAILS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Show proposed alignments such as mainline and crossroads						
Show important points such as POB, PC, PI, PT, POE, and station equations						
Show proposed right-of-way and easements						
Show proposed design features pertaining to bridge design						
Show proposed roadway design features such as pavement, driveways, guardrail and cut/fill limits						
Show proposed drainage design features such as riprap, pipes, culverts, ditches and structures						
PLAN ANNOTATION AND DIMENSIONING:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Annotate proposed alignments such as mainline and crossroads						
Annotate important points such as POB, PC, PI, PT and POE						
Provide taper rates, begin and end project callouts, tangent length, bearings and station equations						
Show curve data (PI, Δ, D, T, L and R)						
Dimension bridge, pavement and right-of-way widths						
Annotate existing and proposed features such as pavement, drainage, driveways, medians and barriers						
Provide match lines with matching station and sheet number						
Include North arrow and scale						
ELEVATION DETAILS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Show existing ground along the roadway centerline						
Show proposed bridge superstructure						
Show proposed bridge substructure						
ELEVATION ANNOTATION AND DIMENSIONING:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Annotate existing ground and proposed deck elevation						
Show station and elevation at key points, such as begin bridge, pier center line, and end bridge						
Show wingwalls or other similar features						
Denote joint types						
NOTES:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Note design flow and water surface elevations						
Note bridge length						
Note skew						
OTHERS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	

Final Design Checklist
AASHTO Girder Bridge Sheets

Project Name: _____ Project No.: _____

Designer: _____

Project Manager: _____ Submittal Date: _____

Reviewer: _____ Review Date: _____

	Designer / Quality Control					Comments
GENERAL INFORMATION:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Use standard MCDOT plan and profile border						
Follow MCDOT CADD and Drafting Guidelines						
AASHTO GIRDER BRIDGE CONSTRUCTION DOCUMENTS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Key Map and Index of Drawings: Show key map and provide index of drawings. Indicate within the index of sheets any drawings/sheets that are not included in the submittal						
General Plan and Elevation: Include contours, existing and proposed utilities, alignments, proposed substructure, existing conditions, North arrow, and scale in plan view. Include bearings and annotation for proposed bents, begin and end of bridge, bridge dimensions, bridge alignment, and existing conditions in plan view. Plan and elevation scale to be the same. Provide annotation and dimensions for bridge spans, begin and end bridge, existing conditions, proposed bents, bridge length, bearing distances, and match lines if necessary in elevation view. A profile grade detail may also be included in the plan and elevation sheet						
Typical Sections: These sheets detail typical sections from a designated bridge span. The sections include annotation and dimensions of clear roadway, out of bridge, lane configuration, and roadway slope. Sections will include superstructure and substructure (i.e. barriers, deck, girders, piers, columns, drilled shafts, etc.). Annotation must specify type of material and size of individual structures in the typical sections. Must provide control points (alignment locations, etc.) within the typical sections						
General Notes and Quantities: Provide general notes that includes but not limited to a general description of construction and design specifications, loads, stresses, and materials. Provide list or table of quantities. Provide a legend, abbreviations, and any standards applicable						
Payment Limits: This sheet should provide and include sections of individual structures (typical wing wall, abutments, retaining walls, etc.) that includes limits of structural backfill, structural excavation, and roadway embankment if necessary. Provide notes for any clarification of pay limits						
Construction Phasing (if needed)						
Foundation Layout: This sheet includes a plan view of the construction area showing the proposed foundations, proposed and existing alignments, and existing utilities. Dimensions between foundations should be visible as well as descriptions of each type of foundation. Abutments or structures with multiple foundations shall have dimensions associating to the bridge alignment. Bearings of each foundation construction line shall be present. Provide drilled shaft elevation information if necessary						
Foundation Details: Included in this sheet is an elevation view and typical section of the proposed foundation type. The elevation view should include dimensions and annotation for foundation reinforcement. Each foundation type should be accounted for on this sheet. Typical sections should show reinforcement. General notes and foundation load data should be accounted for on this sheet as well						
Abutment 1 Plan and Elevation: Included on this sheet is a plan view and elevation view of abutment #1. In plan view, dimensions shall be provided for girder spacing, total length of abutment, distance from alignment to outside edge of abutment, bearing pad spacing, width dimensions associated with the centerline bearing of abutment #1. Section callouts shall be provided to reference abutment #1 section and detail sheet. In the elevation view, the construction centerline, abutment step elevations, total abutment length, foundation spacing, and notes should be annotated and/or shown as dimensions. The scale of the plan view should match the elevation view						

Final Design Checklist
AASHTO Girder Bridge Sheets

Project Name: _____ Project No.: _____

Designer: _____

Project Manager: _____ Submittal Date: _____

Reviewer: _____ Review Date: _____

	Designer				Quality Control	Comments
Abutment 2 Plan and Elevation: Included on this sheet is a plan view and elevation view of abutment #2. In plan view, dimensions shall be provided for girder spacing, total length of abutment, distance from alignment to outside edge of abutment, bearing pad spacing, width dimensions associated with the centerline bearing of abutment #2. Section callouts shall be provided to reference abutment #2 section and detail sheet. In the elevation view, the construction centerline, abutment step elevations, total abutment length, foundation spacing, and notes should be annotated and/or shown as dimensions. The scale of the plan view should match the elevation view						
Abutment 1and Wing walls Details: This sheet provides typical sections referencing back to Abutment #1 plan and elevation sheet. The abutment typical section should show reinforcement, proposed grade, bearing centerline of abutment, dimension for height and width, and annotation for foundation(s) and reinforcement. Wing wall sections provided on this sheet show reinforcement, dimensions of wing walls and abutment, and bearing centerline of abutment. An elevation view of the wing wall showing reinforcement is also provided						
Abutment 2 and Wing walls Details (if different from Abutment 1): This sheet provides typical sections referencing back to Abutment #2 plan and elevation sheet. The abutment typical section should show reinforcement, proposed grade, bearing centerline of abutment, dimension for height and width, and annotation for foundation(s) and reinforcement. Wing wall sections provided on this sheet show reinforcement, dimensions of wing walls and abutment, and bearing centerline of abutment. An elevation view of the wing wall showing reinforcement is also provided						
Pier/s Plan and Elevation sheet/s: Provided on these sheets are plan and elevation views for each Pier. Each pier plan should include the following dimensions and respective annotation: bearing pad and girder spacing, foundation (drilled shaft) and column spacing, width and length of pier. The bridge alignment and bearing centerline of the pier is also needed. Each pier elevation should include the following annotations and/or dimensions: type of foundation, size of column, bridge alignment location, reference callouts for seat elevations, bottom of pier cap elevations, centerline of column, and section callouts. A bearing seat elevations table or list shall be provided on these sheets as well						
Pier Details: Elevation and section views are provided to detail Pier reinforcement. Provide reinforcement callouts for pier elevation view and related section views. Provide detail for reinforcement for stepped pier if necessary. General notes are provided to describe reinforcement in further detail. A shear key detail is provided, if necessary, as well						
Girder Layout Sheet/s: A plan view is provided showing bridge spans, bridge piers and abutments, and girder placement. Annotation and/or dimensions are provided for girder spacing, centerline of piers and abutments, bridge centerline stationing, edge of deck, and girder lengths						
Typical Deck Section: A section is provided for a specific span of the bridge. Reinforcement within the deck is shown. Barriers and girders are also included in the section. Dimensions and/or annotation is provided for reinforcement, barrier type, girder spacing, overhang length, girder type, the slope of deck, and girder length. Superstructure general notes are also provided for descriptions of deck reinforcement						

Final Design Checklist
AASHTO Girder Bridge Sheets

Project Name: _____ Project No.: _____

Designer: _____

Project Manager: _____ Submittal Date: _____

Reviewer: _____ Review Date: _____

	Designer / Quality Control					Comments
Deck Layout Sheet/s (including Pouring Sequence): A plan view showing the proposed bridge alignment, proposed bridge line work, approach slab and anchor slab is provided. If necessary, dimensions are provided for additional reinforcement bundles along bridge alignment stationing. Construction centerline of piers and abutments are also visible in the deck plan. A deck pour schedule is also provided in which a plan view of the bridge is shown with callouts and hatching. General notes are also provided to describe the deck pour. A detail showing additional top deck reinforcement at pier locations may also be provided						
AASHTO Girder Details: A girder elevation, typical section, reinforcing strand data, and girder notes are provided. The girder elevation provides dimensions and/or annotation for reinforcement as well as dimensions of the girder itself. The girder typical section shows reinforcement along with respective callouts and dimensions for the girder are provided. Sections that show strand reinforcement at the ends of the girders and at midspan of the girders are shown. Extended strand details and elevations may also be provided if necessary. Girder insert location details, formed hole location details/sections at intermediate diaphragms and girder ends are also provided						
Abutment Diaphragm Sheet: An elevation view and section of the abutment diaphragm is shown. Reinforcement is shown. The bridge deck, barriers, and girders accompany the bridge abutment in the elevation view. Dimensions and annotation is shown for the reinforcement, girder spacing within the elevation. The deck, girders, and abutment is shown in the section view. Reinforcement is also shown in the section view accompanied by annotation						
Intermediate Diaphragm Sheet: An elevation view is provided showing the girder along with the deck and barrier. Reinforcement is shown. Centerline of girders, spacing of reinforcement, and a section callout is provided as well. The section referencing back to the elevation is shown with reinforcement. The intermediate diaphragm reinforcing, width, along with any notes are						
Pier Diaphragm Sheet: An elevation view and section view at pier locations is provided. Reinforcement is shown in both the elevation view and section view. Dimensions and/or annotation shall be provided for girders, the deck, reinforcement, diaphragm length, girder spacing, pier cap width, and shear keys. Elevation views consists of girders, the deck, barriers, top of pier cap and diaphragm reinforcement						
Miscellaneous Details (Bearing Pads, Restrainers, Utilities, Parapet and Fence Details, etc.): Restrainer details consists of a fixed restrainer elevation view with applicable callouts and dimensions and an elevation view and section of expansion restrainers, also annotated and dimensioned. Annotations and dimensions are also provided for restrainer top plate and bottom plate details. Restrainer notes are provided as well. Bearing pad details include the following: plan view and section of bearing pads. Dimensions and/or annotation accompany all details, plan views, elevation views, and sections. Bearing pad general notes are also included						
Camber and Screed Elevation Sheet/s: Screed elevation schedules (blank) are provided per span in the bridge screed elevation schedule. Deck sections per span are also provided. Screed elevations are not given or required for scoping plans						
Approach Slab Elevations: Per ADOT standards						
Foundation Data Sheet/s: Plan view of boring locations and boring logs required						
ADOT Standard Details: These include, but not limited to, concrete barrier details, approach slab details, anchor slab details, and deck joint assembly details						
OTHERS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	

Final Design Checklist
Post Tension Bridge Sheets

Project Name: _____ Project No.: _____

Designer: _____

Project Manager: _____ Submittal Date: _____

Reviewer: _____ Review Date: _____

	Designer / Quality Control					Comments
GENERAL INFORMATION:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Use standard MCDOT plan and profile border						
Follow MCDOT CADD and Drafting Guidelines						
POST TENSION BOX BEAM BRIDGE CONSTRUCTION DOCUMENTS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Key Map and Index of Drawings: Show key map and provide index of drawings. Indicate within the index of sheets any drawings/sheets that are not included in the submittal. Key map should contain proposed conditions and existing conditions						
General Plan and Elevation: Include contours, existing and proposed utilities, alignments, proposed substructure, existing conditions, North arrow, scale, and lane configurations, if necessary, in plan view. Include any curve data associated with on/off ramps and bridge alignments, annotation for begin and end of bridge, bridge dimensions, and existing conditions in plan view. Plan and elevation scale to be the same. Provide annotation and dimensions for bridge spans, begin and end bridge, existing conditions, proposed bents, bridge length, bearing distances, and match lines if necessary in elevation view. A profile grade detail may also be included in the plan and elevation sheet						
Typical Sections: Proposed bridge superstructure and substructure are shown along with proposed grade. The sections include annotation and dimensions of clear roadway, out to out of bridge, lane configuration, and roadway slope. Sections will include superstructure and substructure (i.e. barriers, deck, utility locations, piers, columns, footings, etc.) without reinforcement. Annotation must specify type of material and size of individual structures in the typical sections. Must provide control points (alignment locations, PGL, etc.) within the typical sections. General notes are included for further descriptions						
General Notes and Quantities: Provide general notes that includes but not limited to a general description of construction and design specifications, loads, stresses, materials, and standards. Provide list or table of quantities. Provide a legend, abbreviations, and any standards applicable						
Payment Limits: This sheet should provide and include sections of individual structures (typical wing wall, abutments, retaining walls, piers, etc…) that includes limits of structural backfill, structural excavation, engineered fill, and roadway embankment in necessary. Provide notes for any clarification of pay limits						
Foundation Layout: This sheet includes a plan view of the construction area showing the proposed foundations, proposed and existing alignments, and existing utilities. Dimensions between foundations should be visible as well as descriptions of each type of foundation. Abutments or structures with multiple foundations shall have dimensions associating to the bridge alignment. Bearings of each foundation construction line shall be present. Provide drilled shaft elevation information if necessary						
Foundation Details: Included in this sheet is an elevation view and typical section of the proposed foundation type. The elevation view should include dimensions and annotation for foundation reinforcement. Each foundation type should be accounted for on this sheet. Typical sections should show reinforcement. General notes and foundation load data should be accounted for on this sheet as well						

Final Design Checklist
Post Tension Bridge Sheets

Project Name: _____ Project No.: _____

Designer: _____

Project Manager: _____ Submittal Date: _____

Reviewer: _____ Review Date: _____

	Designer		Quality Control			Comments
Abutment 1 Plan and Elevation: Included on this sheet is a plan view and elevation view of abutment #1. In plan view, dimensions shall be provided for total length of abutment, distance from alignment to outside edge of abutment, bearing pad spacing, and width dimensions associated with the centerline bearing of abutment #1. Section callouts shall be provided to reference abutment #1 section and detail sheet. Any retaining walls acting along the abutment or wing walls shall also be present. In the elevation view, the construction centerline, abutment step elevations (if needed), total abutment length, foundation spacing, and notes should be annotated and/or shown as dimensions. The scale of the plan view should match the elevation view						
Abutment 2 Plan and Elevation: Included on this sheet is a plan view and elevation view of abutment #2. In plan view, dimensions shall be provided for total length of abutment, distance from alignment to outside edge of abutment, bearing pad spacing, and width dimensions associated with the centerline bearing of abutment #2. Section callouts shall be provided to reference abutment #2 section and detail sheet. Any retaining walls acting along the abutment or wing walls shall also be present. In the elevation view, the construction centerline, abutment step elevations (if needed), total abutment length, foundation spacing, and notes should be annotated and/or shown as dimensions. The scale of the plan view should match the elevation view						
Abutment 1and Wing walls Details: This sheet provides typical sections referencing back to Abutment #1 plan and elevation sheet. The abutment typical section should show reinforcement, proposed grade, bearing centerline of abutment, dimension for height and width, and annotation for foundation(s) and reinforcement. Wing wall sections provided on this sheet show reinforcement, dimensions of wing walls and abutment, and bearing centerline of abutment. An elevation view of the wing wall showing reinforcement is also provided						
Abutment 2 and Wing walls Details (if different from Abutment 1): This sheet provides typical sections referencing back to Abutment #2 plan and elevation sheet. The abutment typical section should show reinforcement, proposed grade, bearing centerline of abutment, dimension for height and width, and annotation for foundation(s) and reinforcement. Wing wall sections provided on this sheet show reinforcement, dimensions of wing walls and abutment, and bearing centerline of abutment. An elevation view of the wing wall showing reinforcement is also provided						
Pier/s Plan and Elevation sheet/s: Provided on these sheets are plan and elevation views for each Pier. Each pier plan should include the following dimensions and respective annotation: bearing pad and column spacing, foundation (drilled shaft or footing), and width and length of pier. The bridge alignment and bearing centerline of the pier is also needed. Each pier elevation should include the following annotations and/or dimensions: size/type of foundation, size/type of column, bridge alignment location, reference callouts for top of column/pier elevations, foundation elevations, centerline of column, and section callouts. A rustication or finishing detail shall be provided on these sheets as well						
Pier Details: Any details describing pier/column finishes shall be included. A pier elevation view with reinforcement to be included and should include the following annotations and/or dimensions: size/type of foundation, size/type of column, bridge alignment location, reference callouts for top of column/pier elevations, foundation elevations, centerline of column, and section callouts						

Final Design Checklist
Post Tension Bridge Sheets

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	Designer		Quality Control			Comments
Framing Plan: A plan view of the bridge top slab is shown along with proposed and existing centerline/alignments, centerline of bents and diaphragms. Length, width, girder spacing, diaphragm spacing, and soffit dimensions are provided. Stationing along proposed/existing alignments are given along with bearing of grade lines, etc. A section showing the soffit at pier or desired location should be included with respective dimensions and annotation. A soffit vent hole detail and diaphragm vent hole detail should be included as well. General notes should be provided for more descriptions						
Framing Details: Section views and details are provided on this referencing back to the framing plan. Each section contains dimensions and/or annotation for centerlines/alignments, thickness, of structures or slabs, height and width of soffits or structure edges, fillets, barriers, etc. An acute corner fillet detail may be provided. General notes are also provided for further detail						
Top Slab Reinforcement: A plan view of the top slab is provided. Section/detail callouts are included to reference to the detail sheet. Alignments/centerlines of girders, roads, diaphragms, and bents are provided. Sections provided on this sheet show reinforcement mats and/or webs. Any alignments/centerlines provided in these sections are annotated along with every other item in the section/detail						
Bottom Slab Reinforcement: A plan view of the bottom slab is provided. Section callouts or details are included to reference to the detail sheet. Alignments/centerlines of girders, roads, diaphragms, and bents are provided. Sections provided on this sheet show reinforcement mats and/or webs. Any alignments/centerlines provided in these sections are annotated along with every other item in the section/detail						
Superstructure Typical Section: Sections showing the superstructure with reinforcement is provided. Sections should be shown detailing the ends of the superstructure with barriers. Dimensions and/or annotation is included in the sections detailing the reinforcement. A typical section at exterior web may also be shown on this sheet. Superstructure general notes shall be provided as well						
Abutment Diaphragm Sheet: Abutment sections showing the proposed abutment line work and proposed reinforcement to be provided. A partial elevation and partial plan may also be provided for more detail. Each section and detail should include dimensions and/or annotation for the reinforcement. General notes should be provided for further detail						
Pier Diaphragm Sheet: An elevation view of the pier(s) should be provided along with a section. The elevation and section should contain reinforcement and should contain annotation detailing the reinforcement along with any pier(s) centerline/alignments dimensions						
Web and Intermediate Diaphragm Reinforcement: A web stirrup reinforcement detail is provided. Typical stirrup details at the exterior web connection should be provided as well. Typical interior diaphragm and typical girder reinforcement connection details should also be present. Annotation and/or dimensions should accompany the sections and details						
Prestressing Details: A tendon path diagram is provided on this sheet which shows the tendon from the begin to end of bridge. The diagram also contains the center of gravity of tendon approximate parabolic path with dimensions. A camber diagram of the webs is also included in this sheet. A camber schedule should be included with the necessary information. Camber and screed elevation notes should also be included in this sheet						
Construction Sequence and Concrete Pour Details: A box girder pouring sequence diagram should be provided. Pour notes for webs, pour notes for girders, and general pour notes should be included as well						

Final Design Checklist
Post Tension Bridge Sheets

Project Name: _____ Project No.: _____

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	Designer / Quality Control					Comments
Miscellaneous Details (Bearing Pads, Restrainers, Utilities, Parapet and Fence Details, etc.) Parapet and curb details consists of a plan view and details showing the bridge plan with sections and annotation referring to the sections and parapet and/or curb. The sections should include annotation and dimensions for any reinforcing. Fence details may also be included						
Screed Elevation Sheet/s						
False work Elevation Sheet/s						
Approach Slab Elevations and Details						
Foundation Data Sheet/s						
ADOT Standard Details						
OTHERS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	

Final Design Checklist
Slab Bridge Sheets

Project Name: _____ Project No.: _____

Designer: _____

Project Manager: _____ Submittal Date: _____

Reviewer: _____ Review Date: _____

	Designer / Quality Control					Comments
GENERAL INFORMATION:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Use standard MCDOT plan and profile border						
Follow MCDOT CADD and Drafting Guidelines						
CONCRETE SLAB BRIDGE CONSTRUCTION DOCUMENTS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	
Key Map and Index of Drawings: Show key map and provide index of drawings. Indicate within the index of sheets any drawings/sheets that are not included in the submittal. The key map should contain proposed and existing conditions in plan view						
General Plan and Elevation: Include contours, existing and proposed utilities, alignments, proposed structure line work, existing conditions, North arrow, and a scale in plan view. Include bearings and annotation for proposed bents, begin and end of bridge/slab, bridge/slab dimensions, bridge/slab alignment, and existing conditions in plan view. Plan and elevation scale to be the same. Provide annotation and dimensions for bridge/slab, begin and end bridge/slab, existing conditions, proposed bents, bridge/slab length, bearing distances, vertical clearance, and match lines if necessary in elevation view. Profile grade lines should also be included, with annotation, in the Elevation view						
Typical Sections: This sheet(s) detail typical sections from a designated bridge/slab section. The sections include annotation and dimensions of clear roadway, out to out of bridge/slab , lane configuration, and roadway slope. Sections will include superstructure and substructure (i.e. barriers, deck, piers, columns, drilled shafts, abutments etc.) without reinforcement. Annotation must specify type of material and size of individual structures in the typical sections. Must provide control points (alignment locations, profile grade lines, etc.) within the typical sections. Other items included on this sheet include width of barriers rail, crown or super elevation, and utilities and openings for future utilities						
General Notes and Quantities: Provide general notes that includes but not limited to a general description of construction and design specifications, loads, stresses, and materials. Provide list or table of quantities. Provide a legend, abbreviations, and any standards applicable to the slab bridge design						
Payment Limits: This sheet should provide and include sections of individual Bent structures, or structures requiring excavation, (typical wing wall, abutments, retaining walls, piers etc…) which includes limits of structural backfill, structural excavation, and roadway embankment if necessary. Provide notes for any clarification of pay limits						
Construction Phasing (if needed)						
Foundation Layout/Plan: This sheet includes a plan view of the construction area showing the proposed foundations, proposed and existing alignments, and existing utilities. Dimensions between foundations should be visible as well as descriptions of each type of foundation. Abutments or structures with multiple foundations shall have dimensions associating to the bridge alignment. Stations and bearings of centerline bents and abutments should be included. Provide drilled shaft elevation information if necessary						
Foundation Details: Included in this sheet is an elevation view and typical section of the proposed foundation type. The elevation view should include dimensions and annotation for foundation reinforcement. Each foundation type should be accounted for on this sheet. Typical sections should show reinforcement. General notes and foundation load data should be accounted for on this sheet as well. Layout information shall not be repeated on detail sheets particularly bearings and stations and curve data						

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Abutment 1 Plan and Elevation: Included on this sheet is a plan view and elevation view of abutment #1. In plan view, dimensions shall be provided for foundation spacing, total length of abutment, distance from alignment to outside edge of abutment, bearing pad spacing, width dimensions associated with the centerline bearing of abutment #1. Section callouts shall be provided to reference abutment #1 section and detail sheet. In the elevation view, the construction centerline, abutment step elevations, total abutment length, foundation spacing, location of weep holes, elevations of slope paving, and notes should be annotated and/or shown as dimensions. The scale of the plan view should match the elevation view. Repeated stations or bearings, from the foundation plan, should not be included. Reinforcement is not provided						
Abutment 2 Plan and Elevation: Included on this sheet is a plan view and elevation view of abutment #2. In plan view, dimensions shall be provided for foundation spacing, total length of abutment, distance from alignment to outside edge of abutment, bearing pad spacing, width dimensions associated with the centerline bearing of abutment #2. Section callouts shall be provided to reference abutment #2 section and detail sheet. In the elevation view, the construction centerline, abutment step elevations, total abutment length, foundation spacing, location of weep holes, elevations of slope paving, and notes should be annotated and/or shown as dimensions. The scale of the plan view should match the elevation view. Repeated stations or bearings, from the foundation plan, should not be included. Reinforcement is not provided						
Abutment 1and Wing walls Details: This sheet provides typical sections referencing back to Abutment #1 plan and elevation sheet. The abutment typical section should show reinforcement, proposed grade, bearing centerline of abutment, dimension for height and width, and annotation for foundation(s) and reinforcement. Wing wall sections provided on this sheet show reinforcement, dimensions of wing walls and abutment, and bearing centerline of abutment. An elevation view of the wing wall showing reinforcement is also provided						
Abutment 2 and Wing walls Details (if different from Abutment 1): This sheet provides typical sections referencing back to Abutment #2 plan and elevation sheet. The abutment typical section should show reinforcement, proposed grade, bearing centerline of abutment, dimension for height and width, and annotation for foundation(s) and reinforcement. Wing wall sections provided on this sheet show reinforcement, dimensions of wing walls and abutment, and bearing centerline of abutment. An elevation view of the wing wall showing reinforcement is also provided						
Pier(s)/Bent(s) Plan and Elevation sheet(s): Provided on these sheets are plan and elevation views for each Pier/Bent. Each pier/Bent plan should include the following dimensions and respective annotation: bearing pad spacing, foundation (drilled shaft) and column spacing, width and length of pier. The bridge alignment and bearing centerline of the pier is also needed. Each pier elevation should include the following annotations and/or dimensions: type of foundation, size of column, bridge alignment location, reference callouts for seat elevations, bottom of pier cap elevations, centerline of column, and section callouts. A bearing seat elevations table or list shall be provided on these sheets as well						
Pier/Bent Details: Dropped bent caps should be fully detailed showing plan, elevation, and section. Reinforcement should be included. The width of stirrups should be indicated for flush caps, and the dropped portion of the bent cap should be terminated 1'-0" from edge of deck. Annotation and/or dimensions should accompany an pier/bent detail. Detail notes may be provided for further pier/bent detail descriptions						

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Slab/Deck Details: A plan view of the top and bottom slab reinforcement should be shown. Annotation and/or dimensions should highlight the length, total number and placement for each main reinforcing bars. Reinforcing overlap lengths, slab dimensions, and alignment/centerlines should also be included in the plan views. Superstructure general notes are also provided for descriptions of deck reinforcement						
Typical Slab Section: A section is provided for a specific span of the bridge/deck. Reinforcement within the deck is shown. Barriers and Bents are also included in the section. Dimensions and/or annotation is provided for reinforcement, barrier type, overhang length, Bent type, the slope of deck, and length. Superstructure general notes are also provided for descriptions of deck reinforcement						
Miscellaneous Details (Bearing Pads, Utilities, Parapet and Fence Details, etc.): Slab hinge details may be included when a hinge is required. Bearing pad details include the following: plan view of bearing pads at pinned piers, part elevations at pinned piers, part elevations at expansion piers, section view at pinned piers, expansion pad details, pinned bearing pad details, and expansion bearing pad details. Dimensions and/or annotation accompany all details, plan views, elevation views, and sections. Bearing pad general notes are also included. Railing/fence details and notes should also be included and may reference the ADOT standard plans						
Camber and Screed Elevation Sheet/s: Screed elevations are provided in the bridge screed elevation schedule. Deck sections are also provided						
Approach Slab Elevations and Details: Per ADOT standards						
Foundation Data Sheet/s						
ADOT Standard Details: These include, but not limited to, concrete barrier details, approach slab details, anchor slab details, and deck joint assembly details						
OTHERS:	**N/A**	**60%**	**95%**	**100%**	**Sealed**	