

A. Project Information

Final Design Package Deliverables

The **Project Engineer** works with the Project Team to ensures that the deliverable meets the expectations documented in this checklist, documenting all exceptions.

The **Project Manager** ensures that the Project Engineer has completed this checklist and saves it in the project files.

Project Name		Project Number	
Project Manager			,
Project Engineer			
Summary of	Civil Design		
Quality Control	Mechanical Design		
	Structural Design		
	Electrical Design		
B. Exceptions			
	from the standard Design Pag	skago bolow	
Describe exceptions	Troni the standard Design Pat	.kage below.	

C. Final Deliverables Checklist*

Deliverable	Comments
☐ Final Design Package Deliverable Checklist (this document) and all deliverables saved in the P:\drive project folder	
☐ Technical QC Review Form	
☐ Design Drawings (see Section D for drawings checklist)	
☐ Basis of Design Plan Sheet	
☐ Basis of Design Report	
☐ Class 1 Capital Cost Estimates. Follow Cost Estimating Guidelines.	
☐ O&M Cost Estimates developed by the O&M Representative	
☐ Basis of Estimate	
☐ Traffic Control Plans (if necessary)	
Final Project permits list with conditions.	
FinalGeotechnical Interpretive Report (GIR) and Geotechnical Data Report (GDR), as applicable, incorporating all information and comments to date.	
$\hfill \square$ 90% Plan Review transmittal sheet with reviewer comments addressed	
\square Easements (temporary and permanent) with conditions as required by the project, and schedule for obtaining any outstanding easements.	
Commissioning Activities for Final Design Completed by Project's Commissioning Agent	
Asset Coordinator has completed the Asset Data File for Final Design	
90% Design Constructability Review Comments addressed	
List of owner supplied and/or installed items and lead-time requirements	



*Items shown in **bold** are tracked as part of performance monitoring for the CIP Design Section. SPU Project Engineers must report to their supervisors on the status of these items at each major design milestone.

D. Design Drawings Checklist

Discipline	Description
General Drawings	☐ Title Sheet, Drawing Index, Location and Vicinity Maps
Commonte	\square General symbols, legends, match sheet numbers,
Comments:	stationing, and abbreviations
	☐ Design Data and Criteria complete
	\square Final Basis of Design Plan Sheet completed (to be inserted
	into the record drawing set after construction completion).
	\square Drawings contain asset and/or tag numbers as applicable
Civil/Site Work	Demolition, Site Prep, and CSEC Plans
Drawings	☐ <u>Site Plans</u>
Comments:	 Show demolition and/or abandonment of all structures and utilities etc to be removed using standard callouts and notes. Similarly show structures and utilities that will remain to be protected, salvaged, or removed and replaced as applicable. Indicate important contractor elements such as construction limits. Show any easement limits and provide notes, as applicable. Show onsite CSEC BMPs, including silt fence, site fencing, CB protection, temporary settling tanks for site water, and proposed discharge points for site water, if applicable.
	 Site, Utility and Piping Plans □ Site Plans ○ Proposed final location of structures, roadways, and major site elements (fencing, gates, etc) are shown ○ All major structure locations and elevation are shown via stationing and offset or Northing/Easting or other survey method ○ Include proposed contractor staging, storage, access, and offsite corridors (traffic routing plans) as applicable ○ Inlcude any construction sequencing details or requirements for the contractor Site Grading □ Site Plan

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de lines with design notes for	
l Sections	
nd Elevations	
ior architectural theme, oor plan of structures.	
oor plan or structures.	
Site - Landscaping and Plantings	
and landscape restoration	
ons	
and inspection plan (meets	
ng Dept of the appropriate	
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Buildings – Plans, Sections, and Details	
ould be identified and	
ical and electrical features	
al member sizes and details.	
and Sections	
s include dimensional	
nber sizes with reinforcement	



Discipline	Description	
Mechanical Drawings Comments:	Major Equipment and Piping Layout ☐ Mechanical Plans and Sections ○ Show proposed final location of major equipment, piping,	
	 and appurtenances. Minor piping partially complete, but adequate corridors have been identified. Location of equipment maintenance features finalized. 	
	HVAC Plans and Sections, Schedules and Schematics HVAC Plans and sections complete.	
	 HVAC Schedules and Schematics Equipment schedules and system schematics complete to allow review of system configuration and design intent. Conceptual fire protection system design (if required) should be included 	
	Plumbing Plans and Sections □ Plumbing Plans and sections complete.	
Electrical Drawings Comments:	One-Line Diagrams Proposed final electrical one-line diagrams, control room layouts, and panel layouts	
	Power Plans, Control Diagrams, and Schedules ☐ Electrical site plan, control diagrams, and schedules complete and coordinated with process/mechanical design.	
	☐ Show final location of handholds and equipment racks, including horizontal alignments for locating electrical structures as needed.	
	Lighting Plans and Reflective Ceiling Plans ☐ Proposed final lighting plan and reflective ceiling plan coordinated with other disciplines.	
Security Drawings Comments:	Security Details Provide final details and notes as required by security SMEs	

Discipline	Description
Instrumentation and Control Drawings Comments:	Process and Instrumentation Diagrams ☐ Final P&IDs developed, including revisions based on previous comments, and coordinated with the final operational control strategy.
Project Manual	Specifications and Project Details
Comments:	 □ Project Manual including all technical specifications reflecting full coordination with the drawings □ Final list of construction constraints (e.g. community commitments, specific working hours, easement conditions, specific permit or regulatory requirements), measurement and payment details, and proposed bid form. □ List of special inspections required, if any □ Commissioning details and requirements, including draft commissioning plan □ Submittal Control Document (SCD) incorporating 90% review comments from CMD