



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Design Memorandum No. 23-03

May 12, 2023

TO: All Design, Operations, and District Personnel, and Consultants

FROM: /s/ Subhi Bazlamit
Subhi Bazlamit
Director, Standards and Policy
Engineering Department

SUBJECT: Stormwater Management

REVISES: *Indiana Design Manual (IDM) Sections 14-2.01(07), 14-2.03(03), 14-2.03(10), 14-2.04(06), 14-2.05(03), 14-2.05(05), 17-6.02, 17-6.03, 17-6.04 and 205-4.0*

SUPERSEDES: Design Memo 20-05

EFFECTIVE: Lettings on or after September 1, 2023

Standard Specifications Section 205, Stormwater Management, has been revised to comply with the permit-based requirements of the Construction Stormwater General Permit (CSGP). Because the revisions correspond with the effective date of the 2024 *Standard Specifications*, a recurring special provision was not created.

The revisions eliminate the Stormwater Quality Manager (SWQM) Level 1 and Level 2 designations and implement permit based SWQM training requirements and credentials for the contractor. Designers will no longer submit Stormwater Quality Manager Level determinations as part of the project development process.

Stormwater Quality Manager (SWQM) Designation

1. On contracts with a waterway permit (401,404, and Construction in a Floodway permits) but not with a Construction Stormwater General Permit, a "Waterways SWQM" will be required. The Waterways SWQM will be required to complete INDOT's Construction Stormwater Management Training.

2. On contracts with a Construction Stormwater General Permit (CSGP), either by itself or in conjunction with waterway permits, a “CSGP SWQM” will be required. The CSGP SWQM will be required to complete the Construction Stormwater Management Training and hold a current certification as a CESSWI, or a CISEC, or a CPESC, or an approved equivalent.

Pay Items Revisions

Pay item revisions include updates to established unit costs and lump sum estimates for Stormwater Quality Control Plan (SWQCP) Preparation and Stormwater Management Implementation pay items. Pay items are discussed below and summarized in a table at the end of this memo.

1. Stormwater Management Budget [205-12108] (No change from current practice)

A contract that includes temporary stormwater, sediment, and erosion control best management practices (BMPs) will include the Stormwater Management Budget pay item. Once the necessary BMPs are quantified, the established prices should be applied to each item to determine a total dollar amount. Do not use bid history to establish unit costs for individual items.

Specialty measures that do not have established prices, such as turbidity curtains and pump arounds, will require a special provision and/or plan detail, and should be included in the contract as individual pay items, where applicable.

The Stormwater Management Budget dollar amount should be entered as the quantity and the unit price as \$1. Below is an example of how the entry will appear in the CIB schedule of pay items.

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0023	205-12108 STORM WATER MANAGEMENT BUDGET	69739.750	1.00000		69739.75	
		DOL				

2. SWQCP Preparation [205-12618]

Only a contract with a CSGP will have a Stormwater Quality Control Plan and include the SWQCP Preparation pay item. The SWQCP Preparation pay item includes all narrative information, plan sheets, and sequencing information necessary for stormwater management utilized on the contract.

The contractor is responsible for developing the SWQCP and presenting it to the Department. However, the designer is responsible for establishing the lump sum cost to be included in the cost estimate. The cost shown in the table at the end of this section may be used for estimating purposes and may be increased or decreased based on project size.

3. **Stormwater Management Implementation [205-12616]**

A contract that includes BMPs will include the Stormwater Management Implementation pay item.

For a CSGP SWQM contract, the lump sum pay item will include costs for weekly stormwater management inspections, attending SWQM progress meetings, and for the contractor's Stormwater Quality Manager (SWQM).

For a Waterways SWQM contract, the lump sum pay item will include costs for attending SWQM progress meetings, and for the contractor's Stormwater Quality Manager (SWQM).

The costs shown in the table below may be used for estimating purposes and may be increased or decreased based on project size.

For contract with BMPs and no permits, the lump sum pay item can be set equal to the amount established for the Stormwater Management Budget pay item for estimating purposes.

Item	Current Contract Cost Estimate*	Applicable SWQM designation
Stormwater Quality Control Plan (SWQCP)	\$5,000	CSGP Only
Stormwater Management Implementation		
Stormwater Management Inspections	\$510 per week of the contract term	CSGP Only
SWQM attending Progress Meetings	\$510 per each 2-week period from beginning of the contract to the intermediate completion date.	CSGP and Waterways
SWQM	\$1000 for SWQM Waterways \$1500 for SWQM CSGP	CSGP and Waterways

* It may be appropriate to increase or decrease these dollar amounts based on the size of the project. Guidelines for various project sizes have not been established.

Editable Document Revisions

The following Editable Documents have been revised to reflect these changes.

1. Contract Preparation Document
2. Environmental Consultation Form and Instructions
3. CSGP Data Sheet
4. Construction Stormwater General Permit (CSGP) Public Notice Requirements.

The revised forms are available in the [Editable Documents webpage](#), under Contract Administration and Environmental, respectively.

IDM Revisions

Revisions to affected IDM sections are included for reference at the end of the memo.

Questions

Question regarding SWQM credentials should be directed to the Environmental Services Division, Stormwater Team, at stormwater@indot.in.gov.

Questions regarding cost estimates should be directed to the Construction Management Division Team tharris@indot.in.gov.

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IDM Revisions

Chapter 14

Instructions to initiate Stormwater Quality Manager Determination were deleted in the following sections:

14-2.01(07), item 13
14-2.03(03), item 4
14-2.03(10), item 8
14-2.04(06), item 15
14-2.05(03), item 14
14-2.05(05), item 16

Chapter 17

17-6.0 TEMPORARY EROSION AND SEDIMENT CONTROL [Add. Apr. 2016, Rev. May 2023]

Temporary erosion and sediment control, known as stormwater management, can be found in the INDOT *Standard Specifications*, section 205. See Chapter 205 for additional information on temporary erosion and sediment control measures, known as best management practices (BMPs) and Stormwater Quality Manager (SWQM) designations.

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17-6.02 Stormwater Quality Management Budget [Add. Apr. 2016, Rev. May 2023]

A contract that includes best management practices (BMPs) will include the Stormwater Management Budget pay item. Once the necessary BMPs are quantified, the established prices should be applied to each item to determine a total dollar amount. Do not use bid history to establish unit costs for individual items.

Specialty measures that do not have established prices, such as turbidity curtains and pump arounds, will require a special provision and/or plan detail, and should be included in the contract as individual pay items, where applicable.

For contracts that are anticipated to extend over a single construction season, the dollar amount should be increased by 10% for each season.

17-6.03 Stormwater Quality Control Plan Preparation [Add. Apr. 2016, Rev. May 2023]

Only a contract with a Construction Stormwater General Permit (CSGP) will have a Stormwater Quality Control Plan and include the SWQCP Preparation pay item. The SWQCP Preparation pay item includes all narrative information, plan sheets, and sequencing information necessary for stormwater management utilized on the contract.

The contractor is responsible for developing the SWQCP and presenting it to the Department. However, the designer is responsible for establishing the lump sum cost to be included in the cost estimate. The cost shown in the table below may be used for estimating purposes.

In the absence of more accurate data, the following should be used for estimating purposes.

Item	Current Contract Cost Estimate ¹	Applicable SWQM designation
Stormwater Quality Control Plan (SWQCP)	\$5,000	CSGP Only

¹ It may be appropriate to increase or decrease these dollar amounts based on the size of the project. Guidelines for various project sizes have not been established.

17-6.04 Stormwater Management Implementation [Add. May 2023]

A contract that includes BMPs will include the Stormwater Management Implementation pay item.

For a CSGP SWQM contract, the lump sum pay item will include costs for weekly stormwater management inspections, attending SWQM progress meetings, and for the contractor's Stormwater Quality Manager (SWQM).

For a Waterways SWQM contract, the lump sum pay item will include costs for attending SWQM progress meetings, and for the contractor's Stormwater Quality Manager (SWQM).

The costs shown in the table below may be used for estimating purposes and may be increased or decreased based on project size.

For contract with BMPs and no permits, the lump sum pay item can be set equal to the amount established for the Stormwater Management Budget pay item for estimating purposes.

Item	Current Contract Cost Estimate ¹	Applicable SWQM designation
Stormwater Management Implementation		
Stormwater Management Inspections	\$510 per week of the contract term	CSGP Only
SWQM attending Progress Meetings	\$510 per each 2-week period from beginning of the contract to the intermediate completion date.	CSGP and Waterways
SWQM	\$1000 for SWQM Waterways \$1500 for SWQM CSGP	CSGP and Waterways

¹ It may be appropriate to increase or decrease these dollar amounts based on the size of the project. Guidelines for various project sizes have not been established.

Chapter 205

205-4.0 STORMWATER QUALITY MANAGER [Added MAR. 2016, Rev. May 2023]

INDOT *Standard Specifications* section 205 defines a permit-based training requirement for a contractor's Stormwater Quality Manager (SWQM).

1. On contracts with a waterway permit (401,404, and Construction in a Floodway permits) but not with a Construction Stormwater General Permit, a "Waterways SWQM" will be required. The Waterways SWQM will be required to complete INDOT's Construction Stormwater Management Training.
2. On contracts with a Construction Stormwater General Permit (CSGP), either by itself or in conjunction with waterway permits, a "CSGP SWQM" will be required. The CSGP SWQM will be required to complete the Construction Stormwater Management Training and hold a current certification as a CESSWI, or a CISEC, or a CPESC, or an approved equivalent.