

A template for the Miscellaneous Sheets is available on the FLH website at <https://highways.dot.gov/federal-lands/design/plan-prep/cfl/cfl-template-drawings>. The template will need to be revised to incorporate project specific information.

An excel template for the Grading Summary is also available.

Item number, description, and pay unit match estimate and SOQ

Add bid schedule if more than one; Add option if applicable

Show NPS PMIS and drawing numbers for all NPS projects (See A/E title sheet for example)

PROJECT	SHEET NUMBER
PROJECT NUMBER	B4
PROJECT NAME	

### GRADING SUMMARY

Station to Station	Roadway Excavation		Pay Item 20401-0000	Additional Excavation For info only		For info only		Embankment For info only		For info only			For Info Only
	Prismoidal Volume	Approach Roads	ROADWAY EXCAVATION	(+) Available Material (see note 3)	(-) Unavailable Material (see note 4)	Shrink/Swell Factor	Total Excavation Available For Fills	Prismoidal Volume	Approach Roads	(+) Various Additional Backfill Material Needed Onsite (see note 5)	Total Embankment	Excavation-Embankment	WASTE (see note 6)
	BCY	BCY	CUYD	BCY	BCY		CCY	CCY	CCY	CCY	CCY	CCY	CUYD
10+00 - 25+00	1,657	0	1,657	325	138	0.95	1,752	36	0	19	56	1,696	
25+00 - 27+00	100	0	100	94	0	0.95	184	1	0	0	1	183	
27+00 - 36+00	653	0	653	204	7	1.10	935	13	0	0	13	922	
36+00 - 38+00	363	79	442	0	23	0.90	378	3	7	1	11	367	
38+00 - 39+00	63	0	63	0	0	0.90	56	0	0	0	0	56	
<b>TOTALS</b>	<b>2,836</b>	<b>79</b>	<b>2,915</b>	<b>623</b>	<b>168</b>		<b>3,305</b>	<b>53</b>	<b>7</b>	<b>20</b>	<b>81</b>	<b>3,224</b>	<b>3,224</b>

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**NOTE:**

- Quantities based on prismoidal (surface to surface) volumes.
- Conserve 4 inches of topsoil in cut and fill slope areas.
- Available material includes structure excavation.
- Unavailable material includes pavement removed in cuts and topsoil stripping in cuts.
- Various additional backfill material needed onsite includes backfill for pavement removal under fill and backfill for topsoil removal under fill.
- Waste quantity calculated using volumes adjusted for shrink/swell. The average shrink/swell factor shown is computed by taking an average of recommended values over the specified range. Refer to the Geotech Report
- The quantities shown herein are approximations. Payment will be made for the actual quantities of work performed.
- BCY = Bank cubic yard - one cubic yard of material as it lies in the natural state.  
CCY = Compacted cubic yard - one cubic yard of material after it has been compacted to specification density.

Include project specific notes. Adjust as necessary, including changing material types included/not included as needed, in notes 3-5

Refer to CFL policy on Sealing and Signing of A/E Documents (located on the FLH website): <https://highways.dot.gov/sites/fhwa.dot.gov/files/docs/federal-lands/pm/30091/sealing-signing-policy.pdf>

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