

A template for this sheet is available on the FLH website at <http://flh.fhwa.dot.gov/resources/design/plans/cfl/template/>. This sheet shows the spreadsheet data linked into a MicroStation file.

STATE	PROJECT	SHEET NUMBER
ST	PROJECT NUMBER PROJECT NAME	

Item number, description, and pay unit match estimate.

Show bid schedule.

GRADING SUMMARY - SCHEDULE A

Station to Station	Roadway Excavation			Additional Excavation For info only		For info only			Embankment		Pay Item 20420-0000	For info only		
	Roadway Prism	Approach Roads	Roadway Excavation	(+) Available Material (see note 1)	(-) Unavailable Material (see note 2)	Shrink/Swell Factor	Total Excavation Available For Fills	Roadway Prism	Approach Roads	Embankment Construction	(+) Various Backfill Material Generated Onsite (see note 3)	Total Embankment	Excavation - Embankment	Estimated Unclassified Borrow Volume (see note 5)
	BCY	BCY	BCY	BCY	BCY		CCY	CCY	CCY	CUYD	CCY	CCY	CCY	BCY
10+00 - 24+00	168	0	168	0	114	1.20	65	351	0	351	272	623	-558	620
24+00 - 38+00	254	0	254	0	164	1.20	108	313	0	313	254	567	-459	510
38+00 - 52+00	171	0	171	0	106	1.20	78	1,375	0	1,375	280	1,655	-1,577	1,752
52+00 - 66+00	218	0	218	0	118	1.20	120	157	0	157	242	399	-279	310
66+00 - 80+00	268	0	268	0	160	1.20	130	56	0	56	214	270	-140	156
80+00 - 94+00	210	0	210	0	131	1.20	95	233	0	233	252	485	-390	434
94+00 - 108+00	224	0	224	0	141	1.20	100	96	0	96	222	318	-218	243
108+00 - 122+00	182	0	182	0	165	1.20	20	538	0	538	270	808	-788	875
122+00 - 136+00	191	0	191	0	90	1.20	121	1,126	0	1,126	216	1,342	-1,221	1,356
136+00 - 150+00	520	0	520	0	166	1.20	425	1,158	0	1,158	168	1,326	-901	1,001
150+00 - 164+00	217	0	217	0	133	0.90	76	467	0	467	172	639	-563	626
164+00 - 178+00	339	0	339	0	139	0.90	180	255	0	255	278	533	-353	392
178+00 - 192+00	690	0	690	0	141	0.90	494	723	0	723	246	969	-475	528
192+00 - 206+00	790	0	790	0	155	0.90	572	327	0	327	258	585	-13	14
206+00 - 220+00	2,302	0	2,302	0	154	1.10	2,363	146	0	146	280	426	1,937	-2,152
220+00 - 233+75	191	0	191	0	36	1.10	171	1,454	0	1,454	178	1,632	-1,461	1,623
SCHEDULE A TOTALS	6,935	0	6,935	0	2,113		5,118	8,775	0	8,775	3,802	12,577	-7,459	8,288

NOTE:

Show bid schedule.

- There is no additional excavated material available for fill.
- Unavailable material includes Pavement Removal and Topsoil Stripping in Cuts. See Miscellaneous Summaries.
- Various backfill material generated onsite includes Backfill for Pavement Removal and Topsoil Replacement Under Fill. See Miscellaneous Summaries.
- The average shrink/swell factor shown is computed by taking an average of recommended values over the specified range. Refer to the Geotech Report for recommended shrink/swell factors.
- Estimated unclassified borrow quantity calculated using volumes adjusted for estimated material source shrink/swell of 0.9.
- 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 notes. Adjust as necessary, including changing material types included/not included as needed, in notes 1-3. Add shrink/swell value for unclassified borrow

Refer to the CFLHD CADD manual Chapter 3 located on the FLH website for more information on file naming conventions: http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter3_NamingConventions_v8i.pdf

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

GRADING SUMMARY

CFL SAMPLE PLAN SHEET