

Alternate Bid Item Sheet Formatting

Design Manual
Chapter 20
Project Automation
Information
Originally Issued: 10-31-11

This section is intended to provide guidance pertaining to the formatting of alternate bid item divisions in the C sheets.

For guidance on inputting bid items into the Project Scheduling system (PSS), including alternate divisions, refer to Section [20J-82](#).

For guidance on importing bid items into MicroStation, refer to Section [20J-83](#).

For guidance on bidding machine control alternates, refer to Section [1G-10](#).

Estimated Project Quantities

One Set of Alternate Bid Items

To import bid items into MicroStation with one set of alternate bid items (e.g., paved shoulder alternates), follow the guidelines in Section [20J-82](#). As shown in **Figure 1**, at the right, select the main division (**Division 1**) along with the set of alternate divisions (**Division 2 Alt.** and **Division 3 Alt.**). When selecting multiple divisions, the option to add additional blank lines is not available, as shown in red at the right. Use MicroStation commands to manually *copy* and *paste* at least ten additional blank lines beyond the last alternate division entry in the Estimated Project Quantities Tab.

NOTE: During the process of copying and pasting, it is important to check and maintain appropriate attributes for consistency.

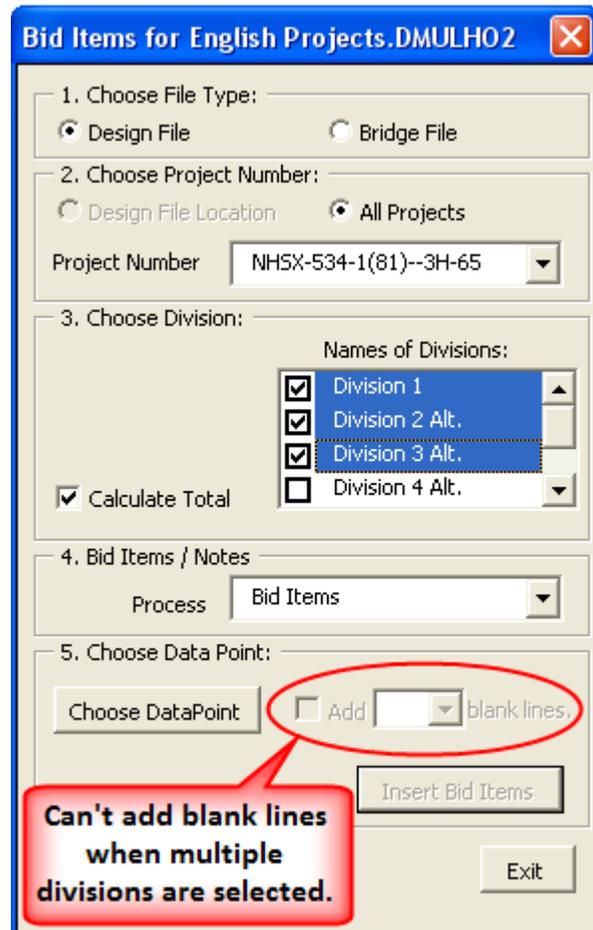


Figure 1: Bid item import dialog.

Multiple Sets of Alternate Bid Items

If more than one set of alternates exist for a project, follow the procedure outlined above for the first set of alternates. For the remaining sets of alternates, individually import the alternate divisions. To provide working room for manipulating the additional items, place the new alternate bid items some distance away from the original list, as shown in Figure 2, below. The additional items can then be easily copied or moved.

ESTIMATED PROJECT QUANTITIES					
ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL	AS BUILT QUAN.
T3	2552-000210	TRENCH FOUNDATION	TON	40.0	
T4	2555-000310	DELIVER AND STOCKPILE SALVAGED MATERIALS	LS	1.00	
T5	2599-9998005	FORCE MAIN CLEANOUT, 2 IN. DIA.	EACH	1	
T6	2599-9998005	PIPELINE MARKERS	EACH	5	
T7	2599-9998008	PIPE, PVC, 2 IN. DIA., SOLVENT WELD PIPE	LF	2,354.0	
T8	2601-2634100	MULCHING	ACRE	25.0	
T9	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	25.0	
B0	2602-000020	SILT FENCE	LF	15,885.0	
B1	2602-000030	SILT FENCE FOR DITCH CHECKS	LF	245.0	
B2	2602-000080	CLEAN-OUT OF SILT FENCE	LF	28,640.0	
B3	2602-0000100	CLEAN-OUT OF SILT FENCE FOR DITCH CHECK	LF	670.0	
B4	2602-000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	200.0	
B5	2602-000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	200.0	
ALTERNATE AA OPTION 1					
B6	2102-0425B70	SPECIAL BACKFILL	TON	3,457.0	
B7	2122-518000T	PAVED SHOULDER, P.C. CONCRETE, 7 IN.	SY	8,153.0	
B8	2548-0003110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	237.5	
B9	2548-0002200	MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	STA	215.9	
ALTERNATE AA OPTION 2					
B0	2102-0425B70	SPECIAL BACKFILL	TON	2,823.0	
B1	2122-55000B0	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN.	SY	8,153.0	
B2	2548-0003100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	215.9	
ESTIMATED PROJECT QUANTITIES					
ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL	AS BUILT QUAN.
1	2526-0285000	CONSTRUCTION SURVEY	LS	1.00	
ESTIMATED PROJECT QUANTITIES					
ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL	AS BUILT QUAN.
1	2501-0090100	PCC PAVING 3-D MACHINE CONTROL	LS	1.00	
2	2526-0285000	CONSTRUCTION SURVEY	LS	1.00	
3	2526-0286000	GLOBAL POSITIONING SYSTEM (GPS) MACHINE CONTROL GRADING	LS	1.00	

Figure 2: Second set of alternate bid item importing, Step 1

Use MicroStation commands to manually *copy* and *paste* new lines to accommodate the additional divisions. See Figure 3, below.

Estimate Reference Information

When importing Estimate Reference Information, the main division(s) should be brought in to MicroStation first, followed by importing each of the alternates individually. If Estimate Reference Information is imported for alternates and main division(s) simultaneously, the notes are imported in order of the eleven-digit bid item code. Consequently, the line-item number in the Estimate Reference Information Tabulation will not match the line-item number in the Estimated Project Quantities Tabulation.

Move and renumber the sets of alternates to be sequential with the main division, as shown in Figure 4. Manually add titles for each set of alternates following the format of the Estimated Project Quantities list.

Additional blank space should also be added at the bottom of the Estimate Reference Information tabulation, for future field use.

84 85	2602-0000312 2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA. PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA. This item is included for the temporary perimeter sediment control and water velocity reduction on slopes. Wattles and sediment logs shall consist of wood excelsior or straw contained in a tube of ultraviolet (UV) degradable open weave fabric (synthetic netting). Wattle or sediment log installation shall be as per manufacturer's recommended installation procedures. Filter socks shall be a continuous, tubular, knitted mesh netting with 3/8" opening, constructed of 5-mil thickness, photodegradable HDPE. The filter material shall be compost from an approved source meeting Article 4169.08 of the Standard Specifications. The sock shall be filled by blowing the filter material into the tube with a special pneumatic blower truck or similar device. Hand filling is not an acceptable means to fill the sock. Compost filter socks shall be installed as per manufacturer's recommended installation procedures.
ALTERNATE AA OPTION 1		
86 87	2102-0425070 2122-5190007	SPECIAL BACKFILL PAVED SHOULDER, P.C. CONCRETE, 7 IN. Refer to B.1 - B.3 and Tab 112-9 for locations and details.
88 89	2548-0000110 2548-0000200	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS) MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE Refer to Tab 112-10.
ALTERNATE AA OPTION 2		
90 91	2102-0425070 2122-5500080	SPECIAL BACKFILL PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN. Refer to B.1 - B.3 and Tab 112-9 for location and details.
92	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE Refer to Tab 112-10.
ALTERNATE BB OPTION 1		
93	2526-8285000	CONSTRUCTION SURVEY -
ALTERNATE BB OPTION 2		
94	2301-9090100	PCC PAVING 3-D MACHINE CONTROL Refer to Developmental Specification "PCC Paving 3-D Machine Control" for additional information.
95	2526-8285000	CONSTRUCTION SURVEY There are 3 existing settlement plates for the eastbound U.S. 34 bridge over I-29. Before these plates are disturbed, a final reading shall be taken and reported to Soils Design. Refer to sheet Q.1 for locations. Price bid to include taking these final readings.
96	2526-8286000	GLOBAL POSITIONING SYSTEM (GPS) MACHINE CONTROL GRADING Refer to Developmental Specification "Global Positioning System Machine Control Grading" for additional information.

Figure 4: Alternate Estimate Reference information importing.

Examples

Multiple Sets of Alternates Sheet Sample