



EARTHWORK

Project Design Services Unit

June 2018

EARTHWORK

- Check that all areas are included in the quantities. Muck is the area which tends to have the most errors.
- Check a few end areas by hand to confirm that the computer calculations are correct.
- Check that the areas in Geopak are labeled correctly.
- Don't mix 2105 (excavation & borrow) with 2106 (excavation and embankment) pay items.

EARTHWORK

- It is recommended to use the note...*ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE R/W IN ACCORDANCE WITH SPEC 2104....do NOT use the word excess but rather use ALL MATERIAL.*
- The 6" or less of bituminous removal can NO LONGER be included in the excavation pay item.
- 2105 pay items = Excavation & Borrow
2106 pay items = Excavation & Embankment

EARTHWORK - 2105

- An earthwork summary and balance is required

EARTHWORK SUMMARY							
STATION TO STATION	EXCAVATION			EMBANKMENT			
	COMMON	TOPSOIL (1)	SUBGRADE	SUITABLE GRADING (CV)	SELECT GRANULAR BORROW (CV)	TOPSOIL	
						TOPSOIL (CV)	TOPSOIL BORROW SPECIAL 1 (CV)
CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
SP 1111-11							
828+56 TO 831+05	762	293	262	586	301	130	98
81+51 TO 82+38	2286	879	786	1759	902	390	293
SP 1111-11 Sub-Total	3048	1172	1048	2345	1203	520	391
SP 2222-22							
93+12 TO 93+88	3048	1172	1048	2345	1203	520	391
100+06 TO 101+72	762	293	262	586	300	130	97
SP 2222-22 Sub-Total	3810	1465	1310	2931	1503	650	488
TABULATION TOTAL	6858	2637	2358	5276	2706	1170	879
	9495						
<i>(1) PAID FOR AS COMMON EXCAVATION.</i>							

EARTHWORK - 2105

- It should show SP/Funding splits as well as an overall total.

EARTHWORK SUMMARY							
STATION TO STATION	EXCAVATION			EMBANKMENT			
	COMMON	TOPSOIL (1)	SUBGRADE	SUITABLE GRADING (CV)	SELECT GRANULAR BORROW (CV)	TOPSOIL	
						TOPSOIL (CV)	TOPSOIL BORROW SPECIAL 1 (CV)
CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
SP 1111-11							
828+56 TO 831+05	762	293	262	586	301	130	98
81+51 TO 82+38	2286	879	786	1759	902	390	293
SP 1111-11 Sub-Total	3048	1172	1048	2345	1203	520	391
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SP 2222-22 Sub-Total	3810	1465	1310	2931	1503	650	488
TABULATION TOTAL	6858	2637	2358	5276	2706	1170	879
	9495						
<i>(1) PAID FOR AS COMMON EXCAVATION.</i>							

EARTHWORK - 2105

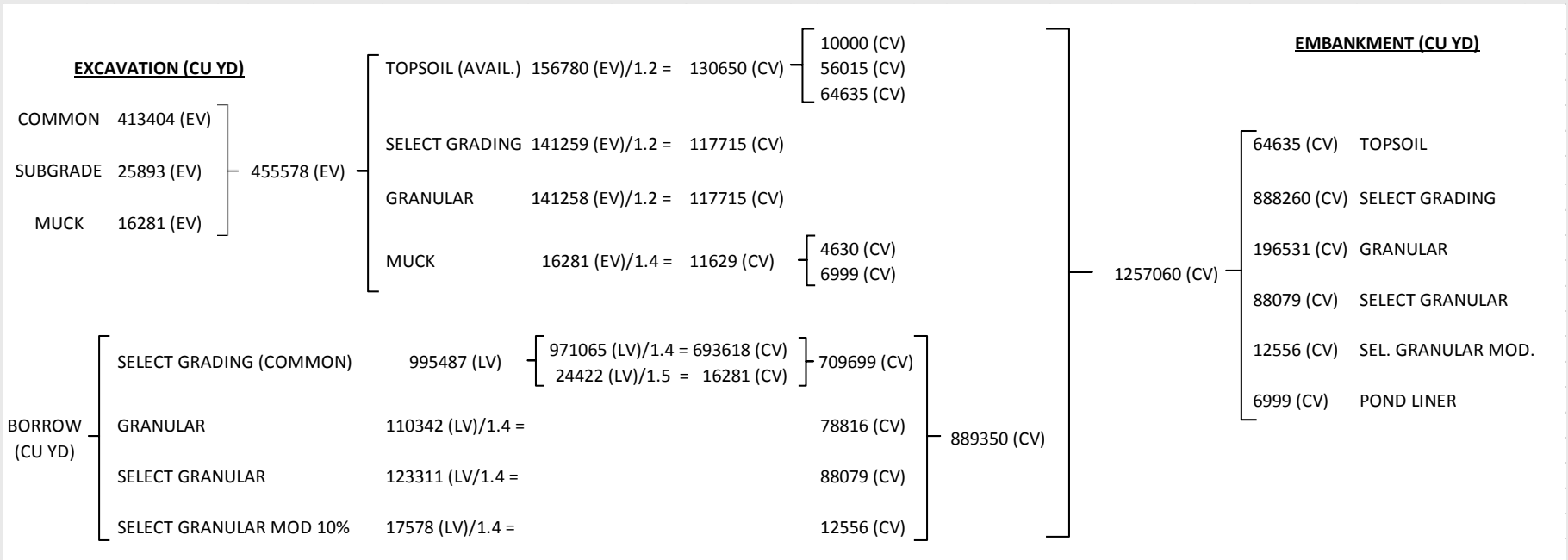
➤ Show all earthwork notes.

EARTHWORK SUMMARY							
STATION TO STATION	EXCAVATION			EMBANKMENT			
	COMMON	TOPSOIL (1)	SUBGRADE	SUITABLE GRADING (CV)	SELECT GRANULAR BORROW (CV)	TOPSOIL	
						TOPSOIL (CV)	TOPSOIL BORROW SPECIAL 1 (CV)
CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
SP 1111-11							
828+56 TO 831+05	762	293	262	586	301	130	98
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TABULATION TOTAL	6858	2637	2358	5276	2706	1170	879
	9495						
<i>(1) PAID FOR AS COMMON EXCAVATION.</i>							

EARTHWORK – 2105

BALANCE

➤ An earthwork balance is required.



EARTHWORK – 2106

- Do NOT show topsoil quantities, either in the tabulation or as a note.
- The Contractor is responsible for determining if borrow materials are needed.
- No earthwork balance in the plan.

EARTHWORK SUMMARY				
STATION TO STATION	EXCAVATION		EMBANKMENT	
	COMMON (1)	SUBGRADE	SUITABLE GRADING (CV) (1)	SELECT GRANULAR (CV)
	CU YD	CU YD	CU YD	CU YD
SP 1111-11				
828+56 TO 831+05	762	262	586	301
81+51 TO 82+38	2286	786	1759	902
<i>SP 1111-11 Sub-Total</i>	3048	1048	2345	1203
SP 2222-22				
93+12 TO 93+88	3048	1048	2345	1203
100+06 TO 101+72	762	262	586	300
<i>SP 2222-22 Sub-Total</i>	3810	1310	2931	1503
TABULATION TOTAL	6858	2358	5276	2706
(1) INCLUDES TOPSOIL				

EARTHWORK – 2106

EARTHWORK SUMMARY

STATION TO STATION	EXCAVATION		EMBANKMENT		
	COMMON (1)	SUBGRADE	SUITABLE GRADING (CV) (1)	SELECT GRANULAR (CV)	TOPSOIL BORROW SPECIAL 1 (CV)
	CU YD	CU YD	CU YD	CU YD	CU YD
SP 1111-11					
828+56 TO 831+05	762	262	586	301	98
81+51 TO 82+38	2286	786	1759	902	293
SP 1111-11 Sub-Total	3048	1048	2345	1203	391
SP 2222-22					
93+12 TO 93+88	3048	1048	2345	1203	391
100+06 TO 101+72	762	262	586	300	97
SP 2222-22 Sub-Total	3810	1310	2931	1503	488
TABULATION TOTAL	6858	2358	5276	2706	879
(1) INCLUDES TOPSOIL					

➤ Only show and pay for TOPSOIL BORROW if it is a special and/or a type of topsoil that is not available on site.

➤ It CANNOT be a common topsoil borrow as that would be paid for as part of the common embankment.

QUESTIONS????

Any questions contact us ANYTIME:

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