

CROSS SECTION EARTHWORK

LOCATION STA. TO STA.	EARTH EXCAVATION (ALL SUITABLE) (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	NON-SPECIAL WASTE DISPOSAL (CU YD)	EARTH EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE) (CU YD)	GRANULAR EMBANKMENT, SPECIAL (CU YD)	EMBANKMENT REQUIRED (CU YD)	EARTHWORK BALANCE SEE NOTE 4 (CU YD)
INTERSTATE 70							
140+67.17	141+00.00	0.0	162.1	0.0	486.1	2,563.7	-2,563.7
141+00.00	141+50.00	0.0	251.8	0.0	272.9	6,868.4	-6,868.4
141+50.00	142+00.00	0.0	252.2	0.0	272.0	6,704.6	-6,704.6
142+00.00	142+50.00	0.0	261.3	0.0	275.0	6,707.3	-6,707.3
142+50.00	143+00.00	0.0	269.7	0.0	262.0	6,652.3	-6,652.3
143+00.00	143+50.00	0.0	269.3	0.0	258.0	6,377.3	-6,377.3
143+50.00	144+00.00	0.0	276.5	0.0	244.4	6,235.9	-6,235.9
144+00.00	144+50.00	0.0	282.6	0.0	233.3	6,129.0	-6,129.0
144+50.00	145+00.00	0.0	279.4	0.0	221.9	5,859.5	-5,859.5
145+00.00	145+50.00	0.0	275.9	0.0	215.3	5,533.6	-5,533.6
145+50.00	146+00.00	0.0	270.2	0.0	208.9	5,115.9	-5,115.9
146+00.00	146+50.00	0.0	365.5	0.0	177.7	4,113.3	-4,113.3
146+50.00	147+00.00	0.0	920.4	0.0	88.4	3,103.9	-3,103.9
147+00.00	147+35.00	0.0	955.6	0.0	105.8	1,963.6	-1,963.6
147+35.00	147+50.00	0.0	462.7	0.0	42.0	949.5	-949.5
147+50.00	148+00.00	0.0	1,637.9	0.0	0.0	3,379.2	-3,379.2
148+00.00	148+50.00	0.0	1,461.9	0.0	0.0	3,006.3	-3,006.3
148+50.00	149+00.00	0.0	1,274.0	0.0	0.0	2,589.8	-2,589.8
149+00.00	149+22.43	0.0	506.5	0.0	0.0	1,020.2	-1,020.2
149+22.43	149+50.00	0.0	592.2	0.0	0.0	1,039.8	-1,039.8
149+50.00	149+66.77	0.0	351.9	0.0	0.0	491.3	-491.3
149+66.77	149+83.00	0.0	168.6	0.0	0.0	217.8	-217.8
149+83.00		0.0	0.0	0.0	0.0	0.0	0.0
ADDITIONAL EMBANKMENT DUE TO SETTLEMENT							
SUBTOTAL	0.0	0.0	11,548.4	0.0	3,363.8	92,722.2	-92,722.2
ACCESS ROAD 4							
200+15.73	200+50.00	1.5	32.9	0.0	1.3	128.8	-127.5
200+50.00	201+00.00	2.2	75.4	0.0	1.9	302.7	-300.8
201+00.00	201+50.00	0.0	45.0	0.0	0.0	163.7	-163.7
201+50.00	202+00.00	0.0	33.1	0.0	0.0	82.7	-82.7
202+00.00	202+50.00	0.0	29.2	0.0	0.0	54.8	-54.8
202+50.00	203+00.00	0.0	26.5	0.0	0.0	36.8	-36.8
203+00.00	203+50.00	0.0	24.2	0.0	0.0	22.5	-22.5
203+50.00	204+00.00	2.6	21.0	0.0	2.2	7.4	-5.1
204+00.00	204+50.00	3.4	19.8	0.0	2.9	1.5	1.4
204+50.00	205+00.00	5.4	19.4	0.0	4.5	1.0	3.5
205+00.00	205+50.00	8.7	18.5	0.0	7.4	0.0	7.4
205+50.00		0.0	0.0	0.0	0.0	0.0	0.0
SUBTOTAL	23.8	345.1	0.0	20.2	0.0	801.9	-781.7
ACCESS ROAD 5							
400+09.57	400+50.00	0.0	19.8	0.0	0.0	94.9	-94.9
400+50.00	401+00.00	0.2	37.2	0.0	0.2	133.0	-132.8
401+00.00	401+50.00	0.2	25.3	0.0	0.2	35.1	-35.0
401+50.00	402+00.00	0.2	23.9	0.0	0.2	26.3	-26.1
402+00.00	402+50.00	1.1	21.5	0.0	0.9	7.8	-6.9
402+50.00	403+00.00	0.9	20.9	0.0	0.7	4.1	-3.4
403+00.00	403+50.00	0.0	25.4	0.0	0.0	30.3	-30.3
403+50.00	404+00.00	0.0	28.9	0.0	0.0	58.1	-58.1
404+00.00	404+50.00	0.0	28.2	0.0	0.0	53.3	-53.3
404+50.00	405+00.00	0.0	26.9	0.0	0.0	39.3	-39.3
405+00.00	405+50.00	0.0	25.0	0.0	0.0	27.7	-27.7
405+50.00	406+00.00	0.0	23.2	0.0	0.0	17.1	-17.1
406+00.00	406+50.00	0.0	22.1	0.0	0.0	10.7	-10.6
406+50.00	407+00.00	0.0	10.9	13.2	0.0	26.0	-26.0
407+00.00	407+50.00	0.0	0.0	24.6	0.0	33.7	-33.7
407+50.00	408+00.00	0.0	0.0	22.0	0.0	14.8	-14.8
408+00.00	408+50.00	0.0	0.0	24.1	0.0	26.7	-26.7
408+50.00	409+00.00	0.0	0.0	27.1	0.0	51.1	-51.1
409+00.00	409+50.00	0.0	0.0	26.2	0.0	39.1	-39.1
409+50.00	410+00.00	0.0	11.9	12.5	0.0	19.4	-19.4
410+00.00	410+50.00	0.0	25.3	0.0	0.0	34.4	-34.4
410+50.00	411+00.00	0.0	39.6	0.0	0.0	134.3	-134.3
411+00.00	411+25.00	0.0	35.1	0.0	0.0	193.6	-193.6
411+25.00	411+50.00	0.0	38.7	0.0	0.0	235.0	-235.0
411+50.00	412+00.00	0.0	52.5	0.0	0.0	274.9	-274.9
412+00.00	412+36.80	0.0	27.3	0.0	0.0	110.3	-110.3
412+36.80	412+46.30	0.0	3.4	0.0	0.0	12.4	-12.4
412+46.30		0.0	0.0	0.0	0.0	0.0	0.0
SUBTOTAL	2.6	573.1	149.8	2.2	0.0	1,743.2	-1,741.0

NOTES:
 1. EARTH EXCAVATION, STOCKPILE (IF REQUIRED) AND SUBSEQUENT PLACEMENT (WHEN APPLICABLE) SHALL ONLY BE MEASURED AND PAID FOR ONCE, AND NOT FOR EACH TRANSPORT.
 2. SUITABLE EARTH EXCAVATION SHALL REMAIN ON SITE WITHIN THE I-70 CORRIDOR AND BE PLACED AT THE DIRECTION OF THE ENGINEER.

CROSS SECTION EARTHWORK

LOCATION STA. TO STA.	EARTH EXCAVATION (ALL SUITABLE) (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	NON-SPECIAL WASTE DISPOSAL (CU YD)	EARTH EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE) (CU YD)	GRANULAR EMBANKMENT, SPECIAL (CU YD)	EMBANKMENT REQUIRED (CU YD)	EARTHWORK BALANCE SEE NOTE 4 (CU YD)
ACCESS ROAD 5A							
450+00.00	450+25.00	0.0	21.8	0.0	0.0	92.4	-92.4
450+25.00	450+50.00	9.5	23.9	0.0	8.1	66.2	-58.1
450+50.00	450+75.00	40.4	23.5	0.0	34.4	0.9	33.4
450+75.00	451+00.00	30.9	12.5	13.9	26.3	96.1	-69.8
451+00.00	451+25.00	0.0	0.0	19.9	0.0	100.3	-100.3
451+25.00	451+50.00	0.0	0.0	5.9	0.0	5.6	-5.6
451+50.00	451+75.00	0.0	0.0	6.1	0.0	4.4	-4.4
452+00.00		0.0	0.0	20.7	0.0	92.6	-92.6
SUBTOTAL	80.8	81.7	66.5	68.7	0.0	458.6	-389.9
ACCESS ROAD 6							
500+00.00	500+50.00	0.0	36.7	0.0	0.0	135.1	-135.1
500+50.00	501+00.00	0.0	44.6	0.0	0.0	217.5	-217.5
501+00.00	501+50.00	0.0	52.8	0.0	0.0	248.8	-248.8
501+81.33		0.0	0.0	0.0	0.0	0.0	0.0
SUBTOTAL	0.0	134.0	0.0	0.0	0.0	601.3	-601.3
DARLING ACCESS ROAD							
1000+09.76	1000+50.00	0.0	19.0	0.0	0.0	86.3	-86.3
1000+50.00	1001+00.00	0.0	44.8	0.0	0.0	188.6	-188.6
1001+00.00	1001+50.00	0.0	40.5	0.0	0.0	157.3	-157.3
1001+50.00	1002+00.00	0.2	40.2	0.0	0.2	138.9	-138.7
1002+00.00	1002+50.00	3.2	43.4	0.0	2.7	124.1	-121.3
1002+50.00	1003+00.00	4.0	45.4	0.0	3.4	138.3	-134.9
1003+00.00	1003+50.00	1.0	48.7	0.0	0.8	187.0	-186.1
1003+50.00	1004+00.00	0.0	51.9	0.0	0.0	305.7	-305.7
1004+00.00	1004+50.00	0.0	54.5	0.0	0.0	424.4	-424.4
1004+50.00	1005+00.00	0.0	60.6	0.0	0.0	498.2	-498.2
1005+00.00	1005+50.00	6.2	69.9	0.0	5.3	533.9	-528.6
1005+50.00	1006+00.00	9.1	84.1	0.0	7.7	647.9	-640.2
1006+00.00	1006+50.00	8.0	101.5	0.0	6.8	869.1	-862.3
1006+50.00	1007+00.00	5.1	109.4	0.0	4.4	1,012.3	-1,007.9
1007+00.00	1007+50.00	21.9	113.8	0.0	18.6	868.3	-849.7
1007+50.00	1008+00.00	85.3	96.2	0.0	72.5	342.9	-270.4
1008+00.00	1008+50.00	131.6	69.9	0.0	111.9	0.0	109.7
1008+50.00	1009+00.00	129.6	74.9	0.0	110.2	1.5	108.7
1009+00.00	1009+50.00	97.3	96.9	0.0	82.7	43.8	38.9
1009+50.00	1010+00.00	35.8	55.2	194.3	30.5	115.3	-84.9
1010+00.00	1010+50.00	0.0	0.0	459.0	0.0	101.7	-101.7
1010+50.00	1011+00.00	0.0	0.0	619.7	0.0	30.5	-30.5
1011+00.00	1011+50.00	0.0	0.0	628.1	0.0	6.3	-6.3
1011+50.00	1012+00.00	0.0	0.0	376.0	0.0	38.7	-38.7
1012+00.00	1012+50.00	0.0	0.0	184.0	0.0	99.0	-99.0
1012+50.00	1013+00.00	26.3	55.6	81.1	22.4	121.6	-99.3
1013+00.00	1013+50.00	41.3	110.4	0.0	35.1	131.0	-95.9
1013+50.00	1014+00.00	59.6	111.6	0.0	50.7	156.5	-105.9
1014+00.00	1014+50.00	78.1	114.2	0.0	66.4	163.2	-96.8
1014+50.00	1015+00.00	35.0	110.1	0.0	29.7	235.1	-205.4
1015+00.00	1015+50.00	1.4	52.9	70.8	1.2	291.6	-290.4
1015+50.00	1016+00.00	0.0	0.0	157.1	0.0	308.7	-308.7
1016+00.00	1016+50.00	0.0	0.0	150.6	0.0	241.7	-241.7
1016+50.00	1017+00.00	0.0	0.0	119.0	0.0	218.3	-218.3
1017+00.00	1017+50.00	0.0	0.0	167.0	0.0	206.7	-206.7
1017+50.00	1018+00.00	6.7	43.8	112.3	5.7	97.1	-91.4
1018+00.00	1018+50.00	42.1	89.9	0.0	35.7	59.1	-23.4
1018+50.00	1019+00.00	35.4	46.1	83.4	30.0	53.7	-23.7
1019+00.00	1019+50.00	0.0	0.0	113.7	0.0	34.0	-34.0
1019+50.00	1020+00.00	0.0	0.0	60.7	0.0	2.0	-2.0
1020+00.00	1020+11.80	0.0	0.0	15.0	0.0	0.1	-0.1
1020+11.80		0.0	0.0	0.0	0.0	0.0	0.0
SUBTOTAL	864.2	2,055.5	3,591.8	734.6	555.2	9,282.5	-8,547.9
BASINS							
RETENTION BASIN 1	0.0	0.0	50,832.7	0.0	0.0	0.0	0.0
RETENTION BASIN 2	0.0	0.0	31,731.6	0.0	0.0	0.0	0.0
RETENTION BASIN 1	1,848.1	462.0	0.0	1,178.1	0.0	0.0	1,178.1
SUBTOTAL	1,848.1	462.0	82,564.3	1,178.1	0.0	0.0	1,178.1
TRENCH BACKFILL							
TOTAL	2,819.5	3,651.4	101,305.8	2,003.9	3,919.0	105,609.7	-103,605.8

NOTE 5
 ESTIMATE 25% IS UNSUITABLE

NOTE 6

- NOTES CONTINUED:
 3. APPROXIMATELY 7"-14" OF SETTLEMENT IS EXPECTED SOUTH OF THE I-70 BRIDGE ABUTMENT. THE ADDITIONAL FURNISHED EXCAVATION OR EARTH EXCAVATION REQUIRED TO BRING THE EMBANKMENT TO THE FINAL GRADING ELEVATIONS SHOWN ON THE CROSS SECTIONS HAS BEEN CALCULATED AND IS INCLUDED IN THE CONTRACT PLAN QUANTITIES AS AN ADDITIONAL 12" OF EMBANKMENT ACROSS THE ENTIRE I-70 EMBANKMENT.
 4. (-) INDICATES SHORTAGE. FURNISHED EXCAVATION OR EARTH EXCAVATION IS REQUIRED.
 (+) INDICATES SURPLUS EARTH EXCAVATION TO BE USED ELSEWHERE WITHIN THE PROJECT LIMITS.
 5. INCLUDES EARTHWORK FOR I-70 RT DITCH FROM 149+66.77 TO DETENTION BASIN 2.
 6. 101,306 CU YD + 65 CU YD FOR EXCAVATIONS AT PIER 26 AND 27 (0' - 5' DEPTH) = 101,371 CU YD.

\DBCONN-05-SCHEDULED.DGN, \DBCONN-99-MOTIF.DGN, \DBCONN-96-MOTIF.DGN, \DBCONN-95-SHT-SCHEDULED.DGN, \DBCONN-95-S