

PLANS FOR
COLUMBUS PHASE I3 AML PROJECT
BURKE COUNTY, ND
ND03I

LOCATION

THE COLUMBUS PHASE (I3) AML PROJECT IS LOCATED
APPROXIMATELY 4 MILES SOUTH OF COLUMBUS,
NORTH DAKOTA. THE PROJECT SITE IS WITHIN
SECTIONS 20, 28 & 29, T162N, R95W IN BURKE COUNTY.

NORTH DAKOTA
PUBLIC SERVICE COMMISSION
AML DIVISION
BISMARCK, ND

PREPARED BY:

AML PROJECT MANAGER
AML DIVISION
ND PUBLIC SERVICE COMMISSION

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THE ORIGINAL SIGNED AND SEALED PLANS AND SPECS
ARE IN THE OFFICE OF THE AML DIVISION NDPSC

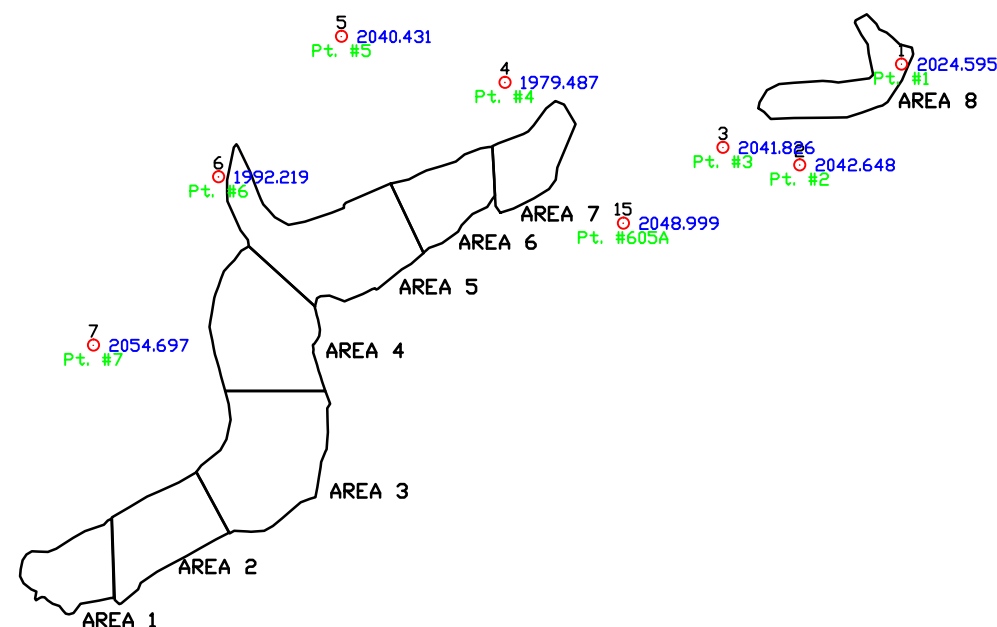
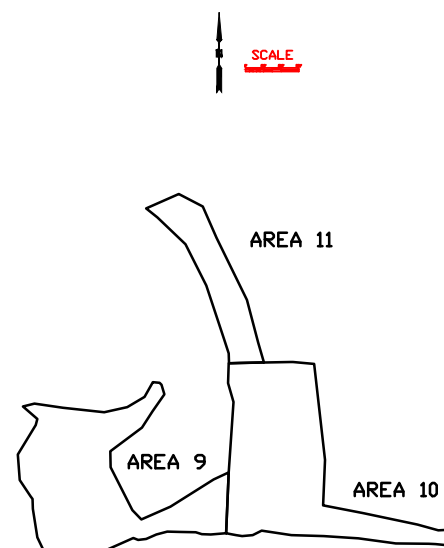
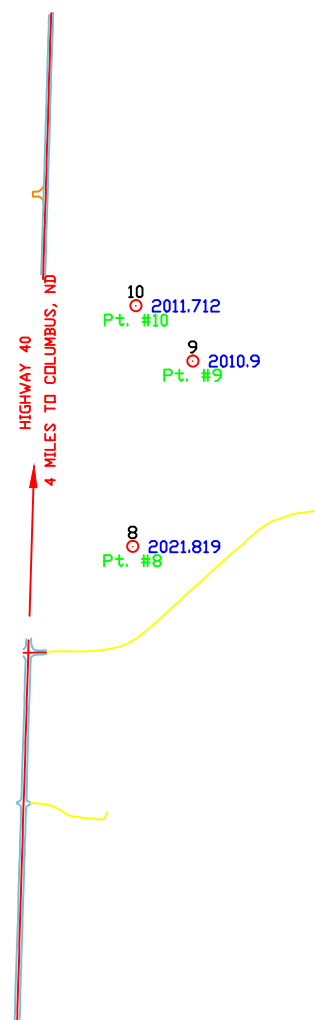
COLUMBUS PHASE I3
BURKE COUNTY, ND
NDPSC
FEBRUARY 2012
PLAN SHEET 1 OF 29

11
○ 1982.15
Pt. #601

PHASE 13 = AREAS 1-11

12
○ 1960.988
Pt. #602A

AREA	CUT (yds)	FILL (yds)
1	37,565	53,735
2	87,465	60,290
3	116,205	98,505
4	89,585	80,955
5	98,840	86,550
6	39,225	48,305
7	35,705	27,010
8	16,820	6,525
9	33,125	32,725
10	25,590	17,460
11	9,125	0
TOTAL	589,250	512,060



Survey Control Points

PT. #	NORTHING	EASTING	ELEVATION
1	676939.583	1424770.736	2024.595
2	676370.549	1424195.457	2042.648
3	676468.768	1423751.625	2041.826
4	676836.647	1422529.552	1979.487
5	677095.941	1421606.172	2040.431
6	676302.811	1420912.178	1992.219
7	675351.526	1420205.509	2054.607
8	678688.819	1418364.208	2021.819
9	679736.502	1418703.576	2010.900
10	680048.894	1418382.831	2011.712
601	683266.573	1418140.845	1982.150
602A	682985.251	1428584.829	1960.988
603A	673012.907	1417779.118	2070.364
604A	672770.838	1427873.412	2069.630
605A	676040.967	1423198.519	2048.999

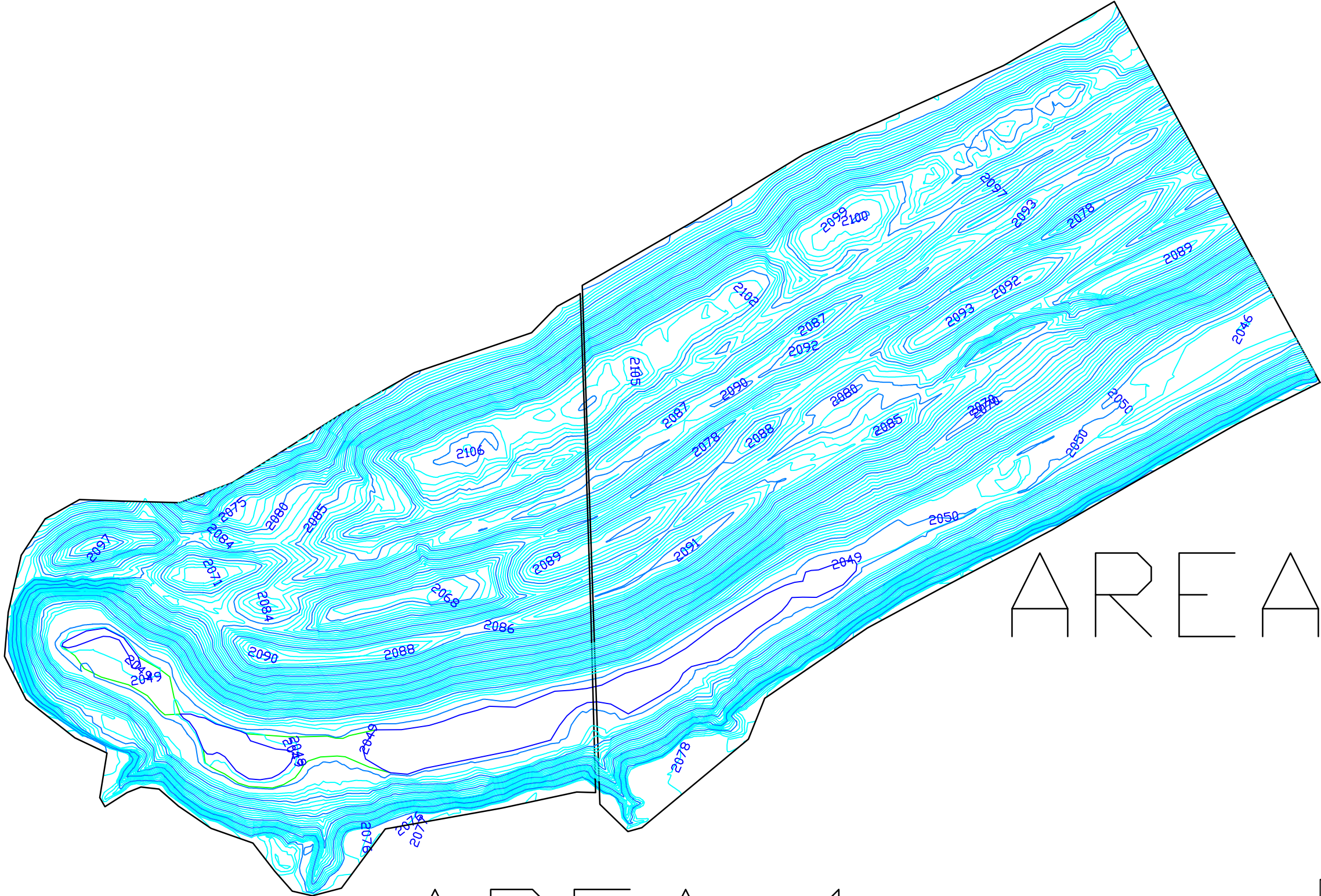
13
○ 2070.364
Pt. #603A

14
○ 2069.63
Pt. 604A

COLUMBUS AML PROJECT
PHASE 13
OVERVIEW
PLAN SHEET 2 OF 29



SCALE: 1"=100'



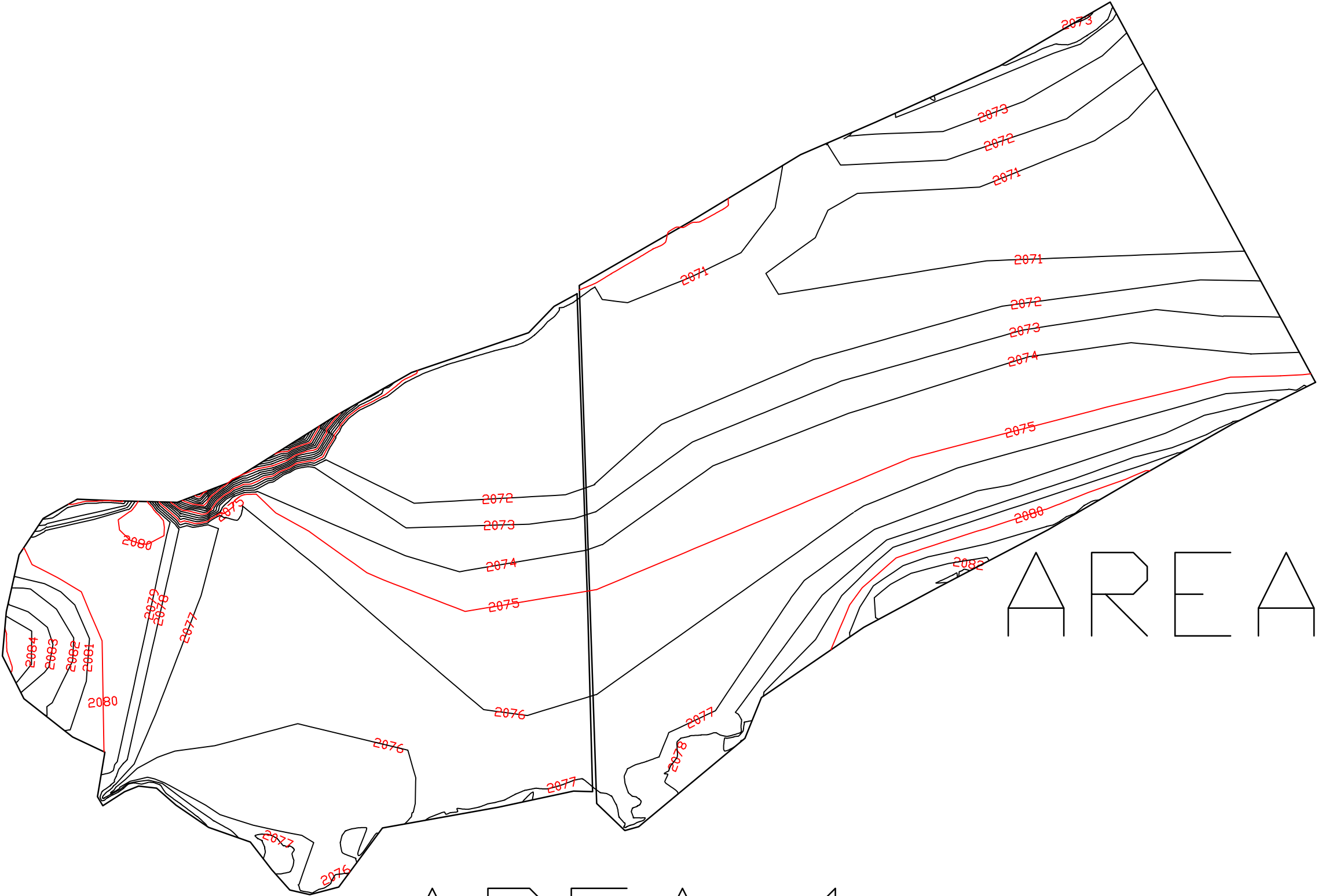
AREA 1

AREA 2

COLUMBUS AML PROJECT
PHASE 13
PRE-RECLAMATION TOPO.
PLAN SHEET 3 OF 29



SCALE: 1"=100'



AREA 1

AREA 2

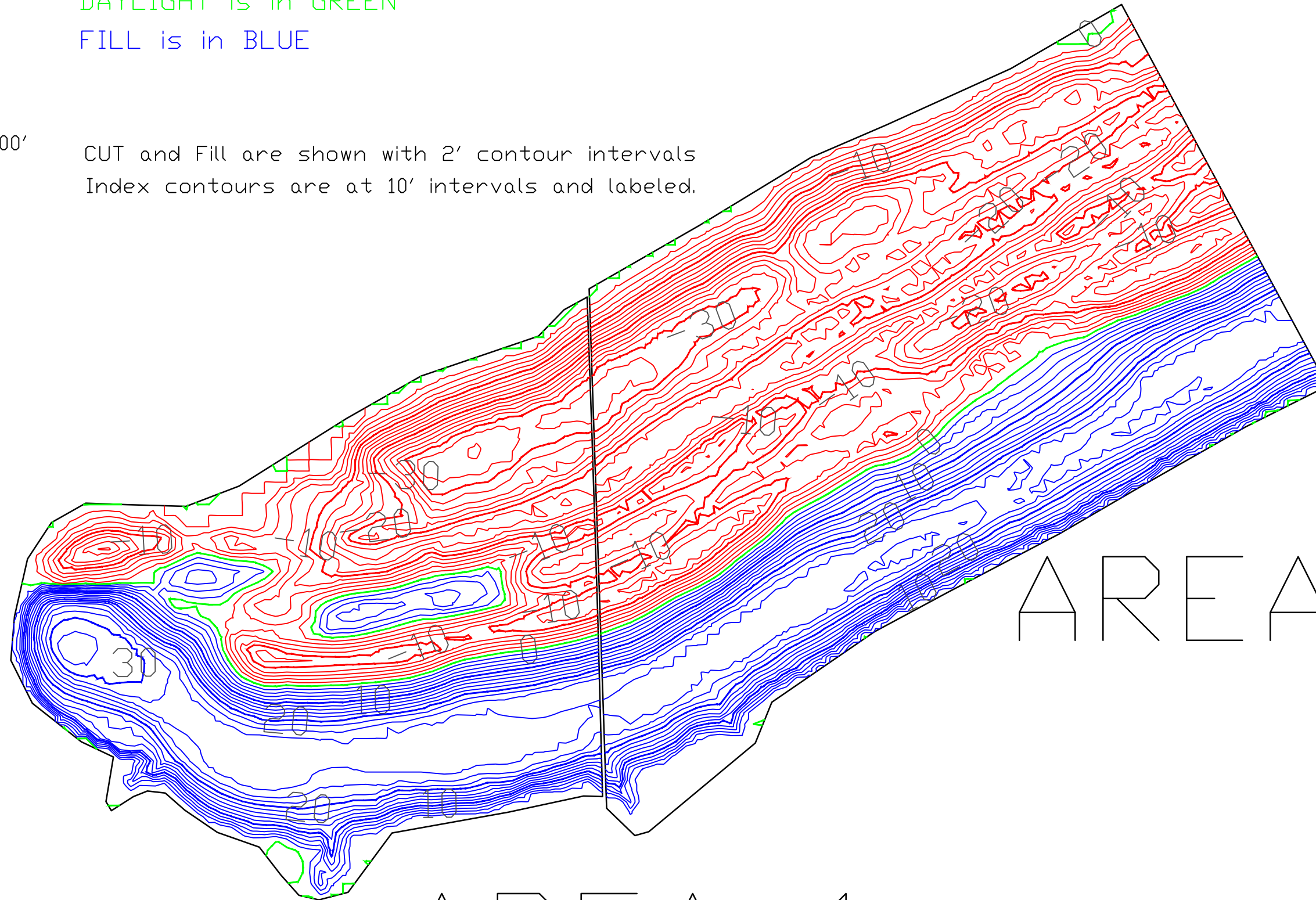
COLUMBUS AML PROJECT
PHASE 13
POST-RECLAMATION TOPO.
PLAN SHEET 4 OF 29



CUT is in RED
DAYLIGHT is in GREEN
FILL is in BLUE

SCALE: 1"=100'

CUT and Fill are shown with 2' contour intervals
Index contours are at 10' intervals and labeled.



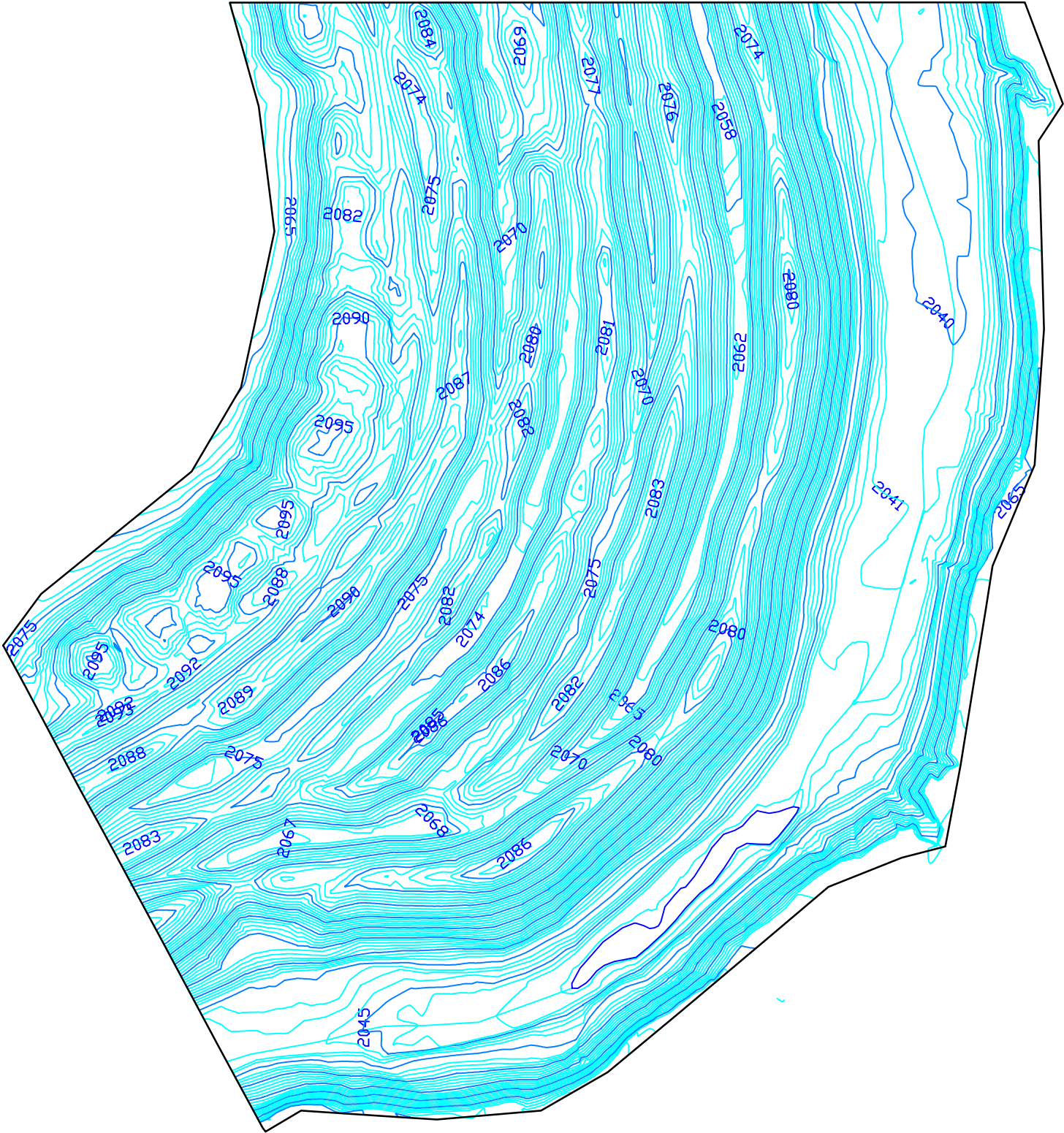
AREA 1

AREA 2

COLUMBUS AML PROJECT
PHASE 13
CUT AND FILL MAP
PLAN SHEET 5 OF 29



SCALE: 1"=100'

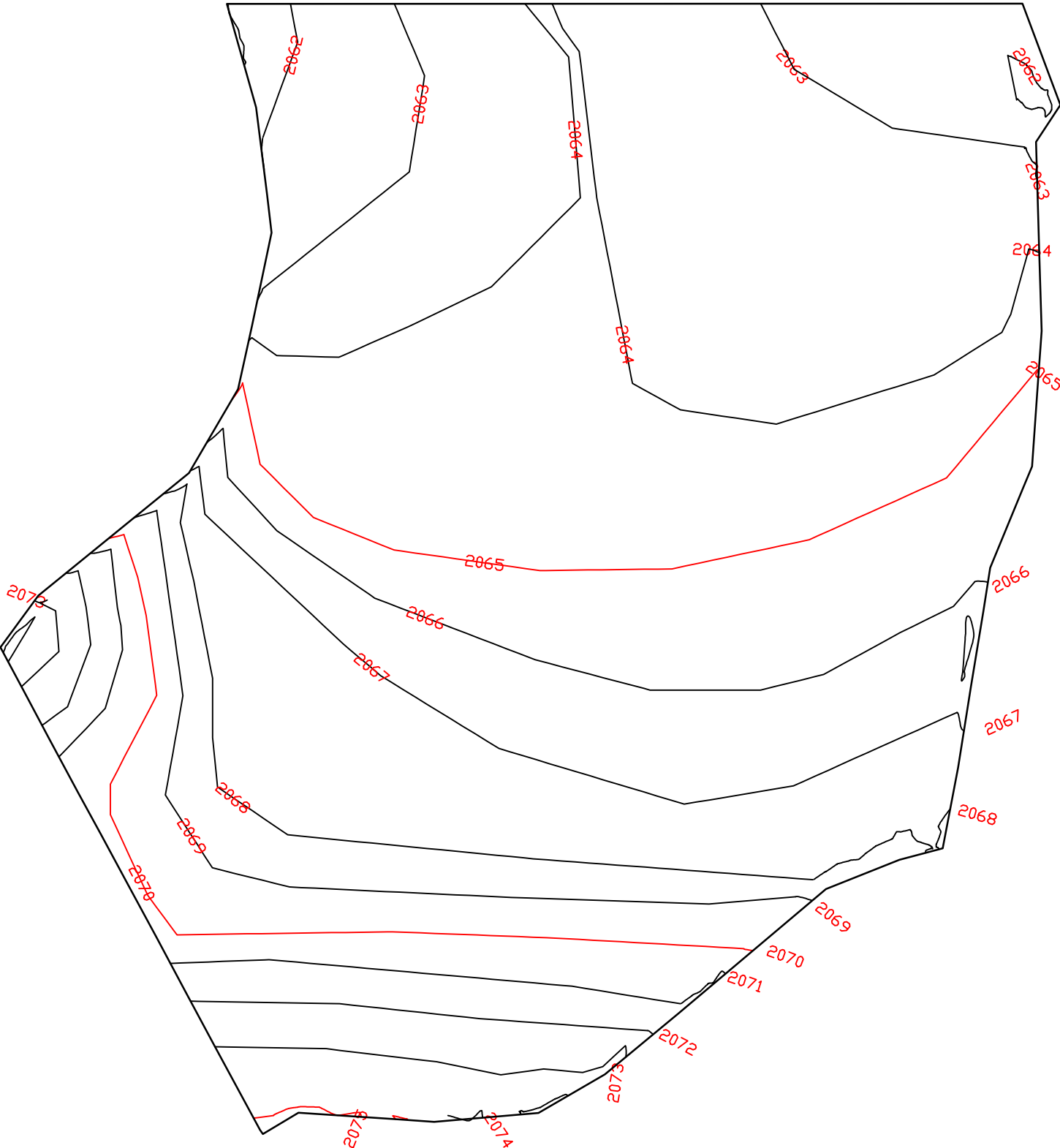


AREA 3

COLUMBUS AML PROJECT
PHASE 13
PRE-RECLAMATION TOPO.
PLAN SHEET 6 OF 29



SCALE: 1"=100'

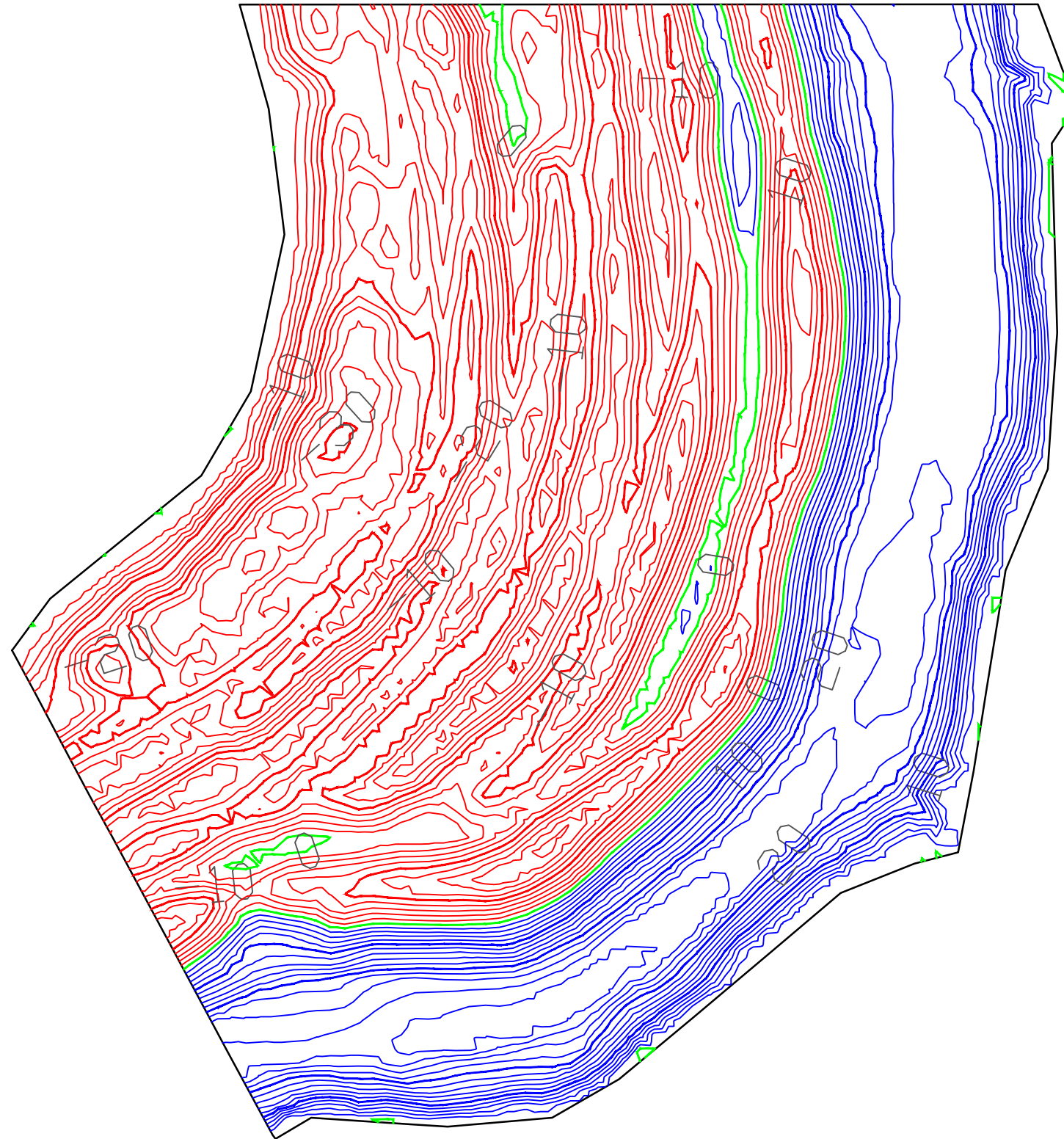


AREA 3

COLUMBUS AML PROJECT
PHASE 13
POST-RECLAMATION TOPO.
PLAN SHEET 7 OF 29



SCALE: 1"=100'



CUT is in RED

DAYLIGHT is in GREEN

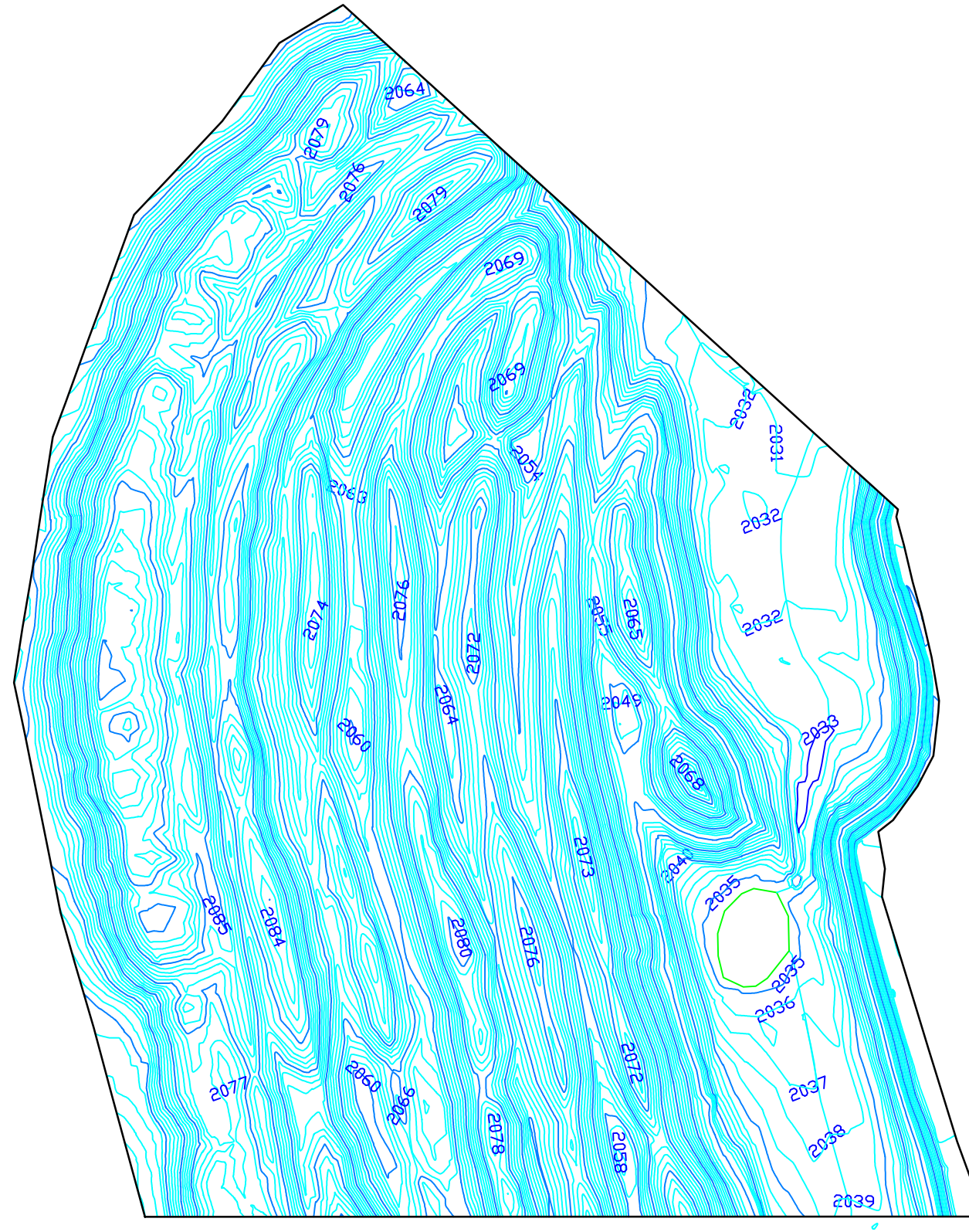
FILL is in BLUE

CUT and Fill are shown with 2' contour intervals
Index contours are at 10' intervals and labeled.

AREA 3

COLUMBUS AML PROJECT
PHASE 13
CUT AND FILL MAP
PLAN SHEET 8 OF 29

SCALE: 1"=100'



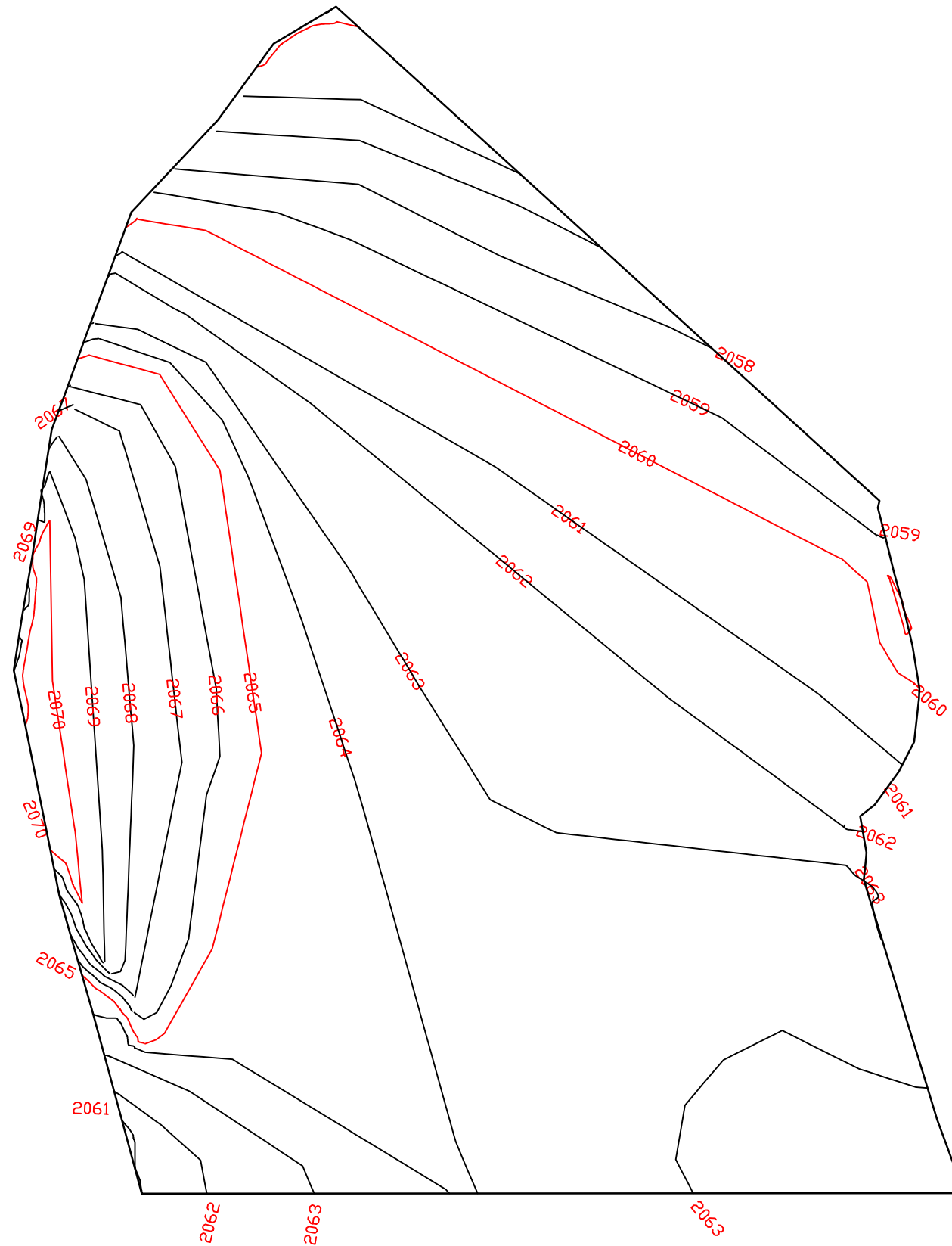
A stylized drawing of the word "AREA" using geometric shapes. The letter 'A' is formed by two triangles meeting at a base. The letter 'R' is formed by a vertical line, a horizontal line, and a diagonal line. The letter 'E' is formed by a vertical line and three horizontal lines. The letter 'A' is formed by two triangles meeting at a base. The letter '4' is formed by a vertical line, a horizontal line, and a diagonal line.

COLUMBUS AML PROJECT
PHASE 13
PRE-RECLAMATION TOPO.
PLAN SHEET 9 OF 29



AREA 4

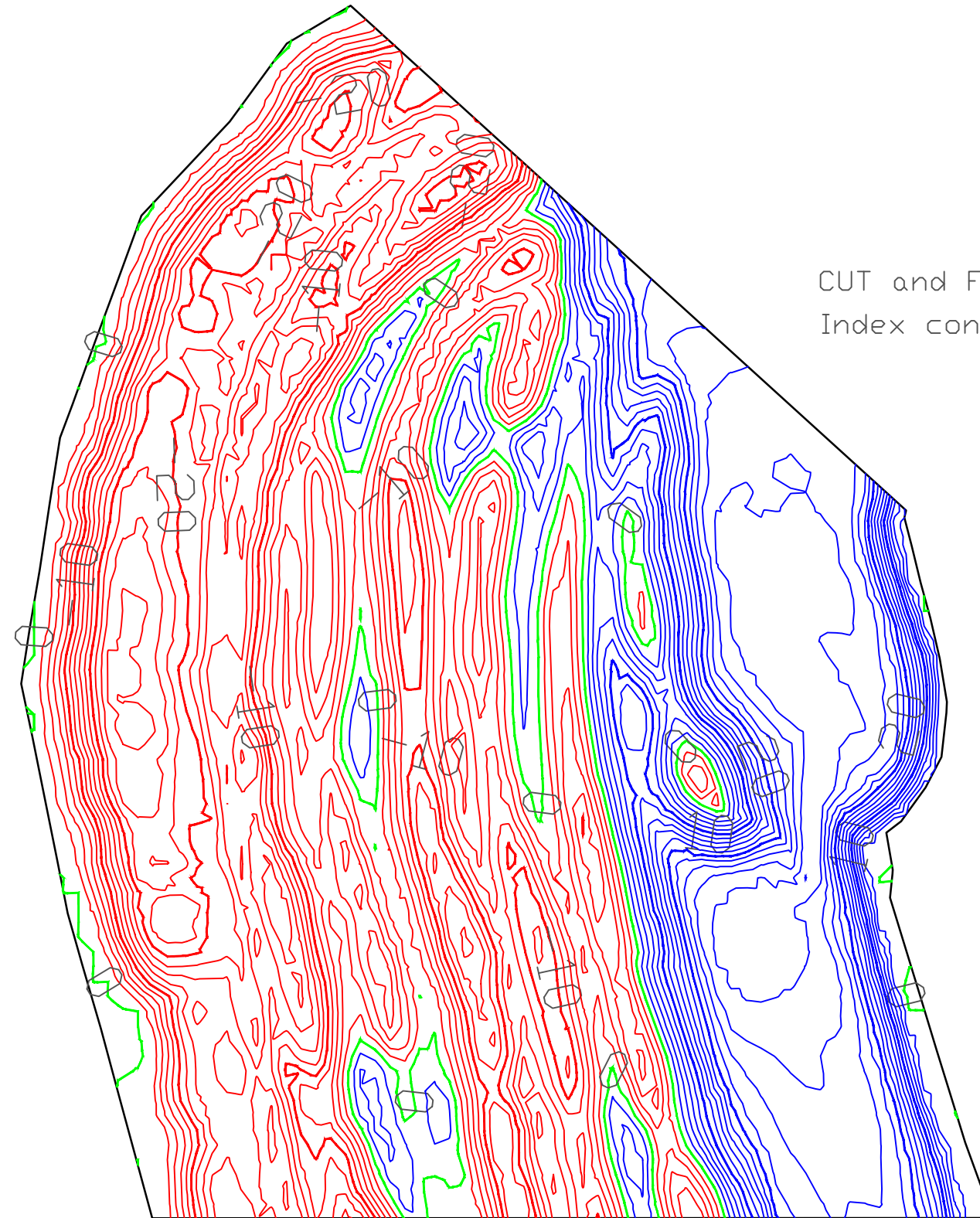
SCALE: 1"=100'



COLUMBUS AML PROJECT
PHASE 13
POST-RECLAMATION TOPO.
PLAN SHEET 10 OF 29



SCALE: 1"=100'

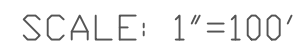


CUT and Fill are shown with 2' contour intervals
Index contours are at 10' intervals and labeled.

CUT is in RED
DAYLIGHT is in GREEN
FILL is in BLUE

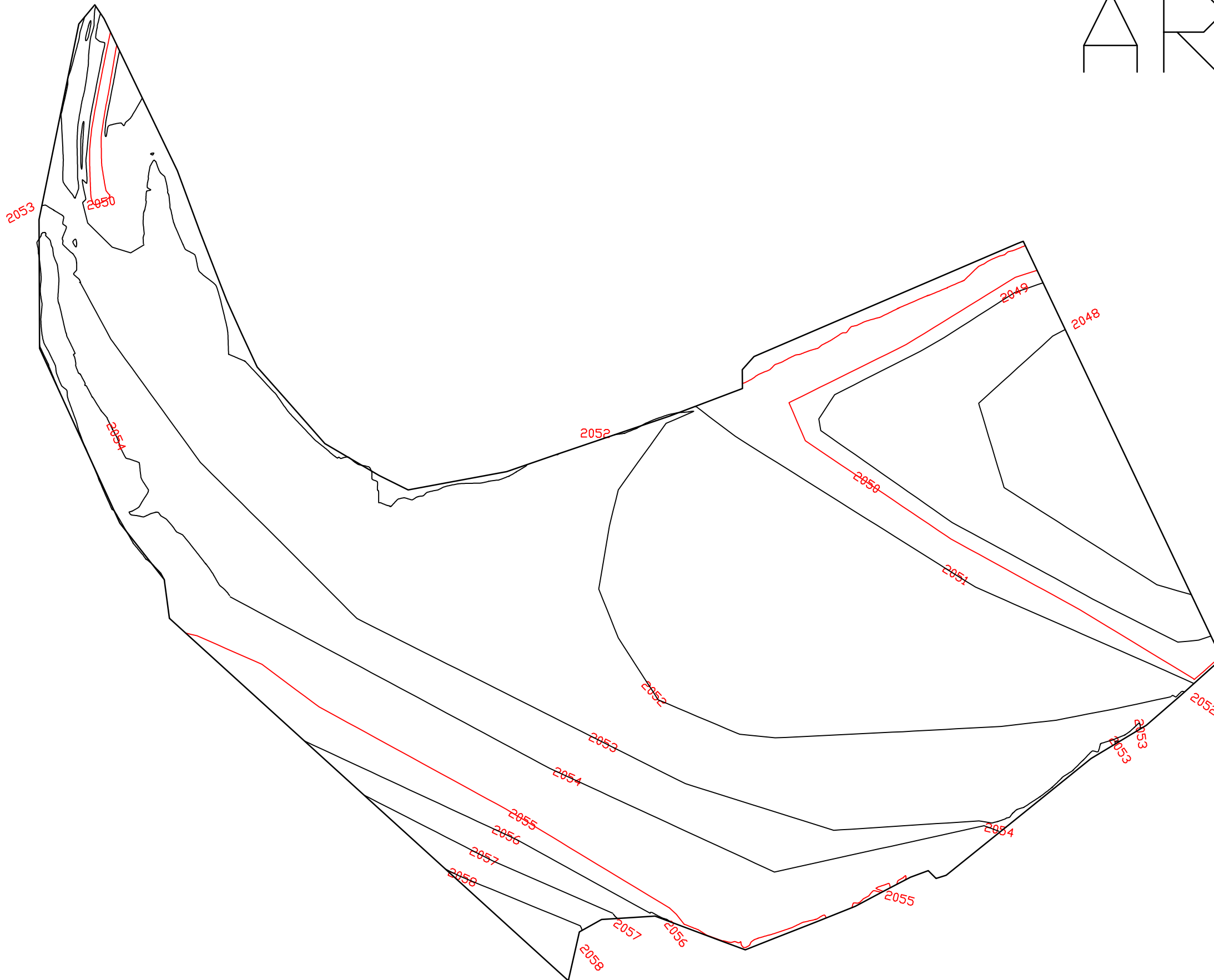
AREA 4

COLUMBUS AML PROJECT
PHASE 13
CUT AND FILL MAP
PLAN SHEET 11 OF 29



COLUMBUS AML PROJECT
PHASE 13
PRE-RECLAMATION TOPO.
PLAN SHEET 12 OF 29

AREA 5



SCALE: 1"=100'

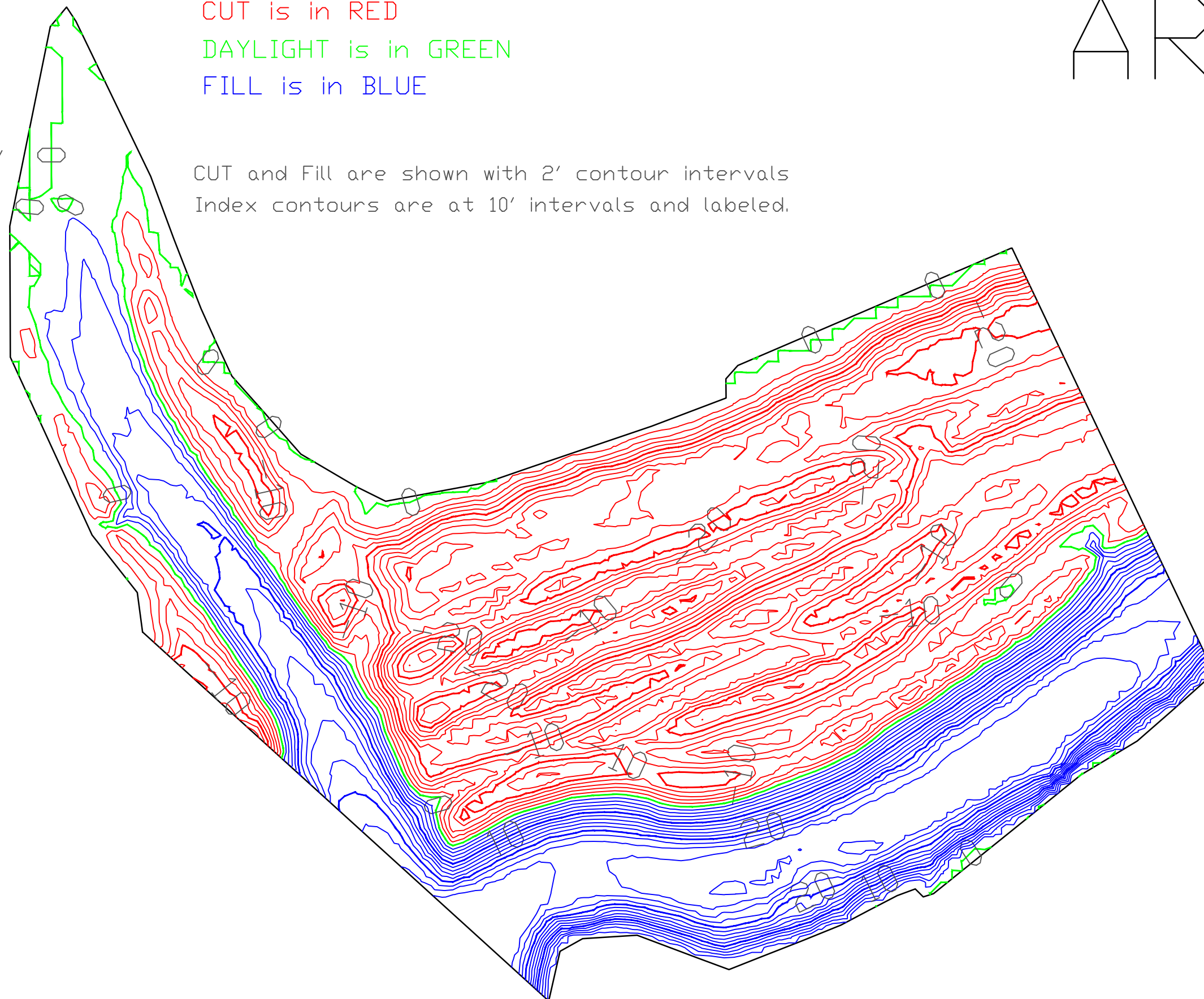
COLUMBUS AML PROJECT
PHASE 13
POST-RECLAMATION TOPO.
PLAN SHEET 13 OF 29



SCALE: 1"=100'

CUT is in RED
DAYLIGHT is in GREEN
FILL is in BLUE

CUT and Fill are shown with 2' contour intervals
Index contours are at 10' intervals and labeled.

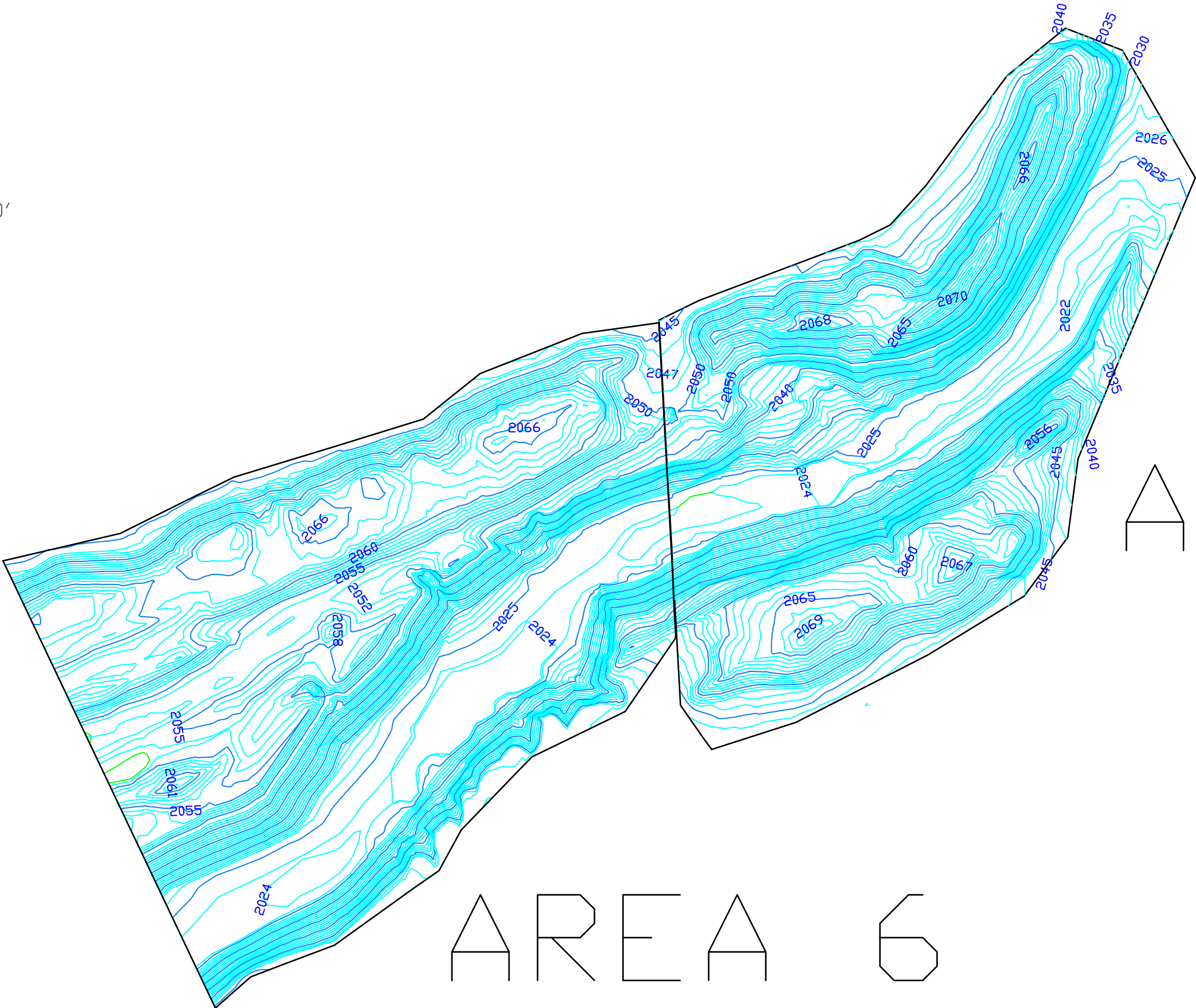


AREA 5

COLUMBUS AML PROJECT
PHASE 13
CUT AND FILL MAP
PLAN SHEET 14 OF 29



SCALE: 1"=100'



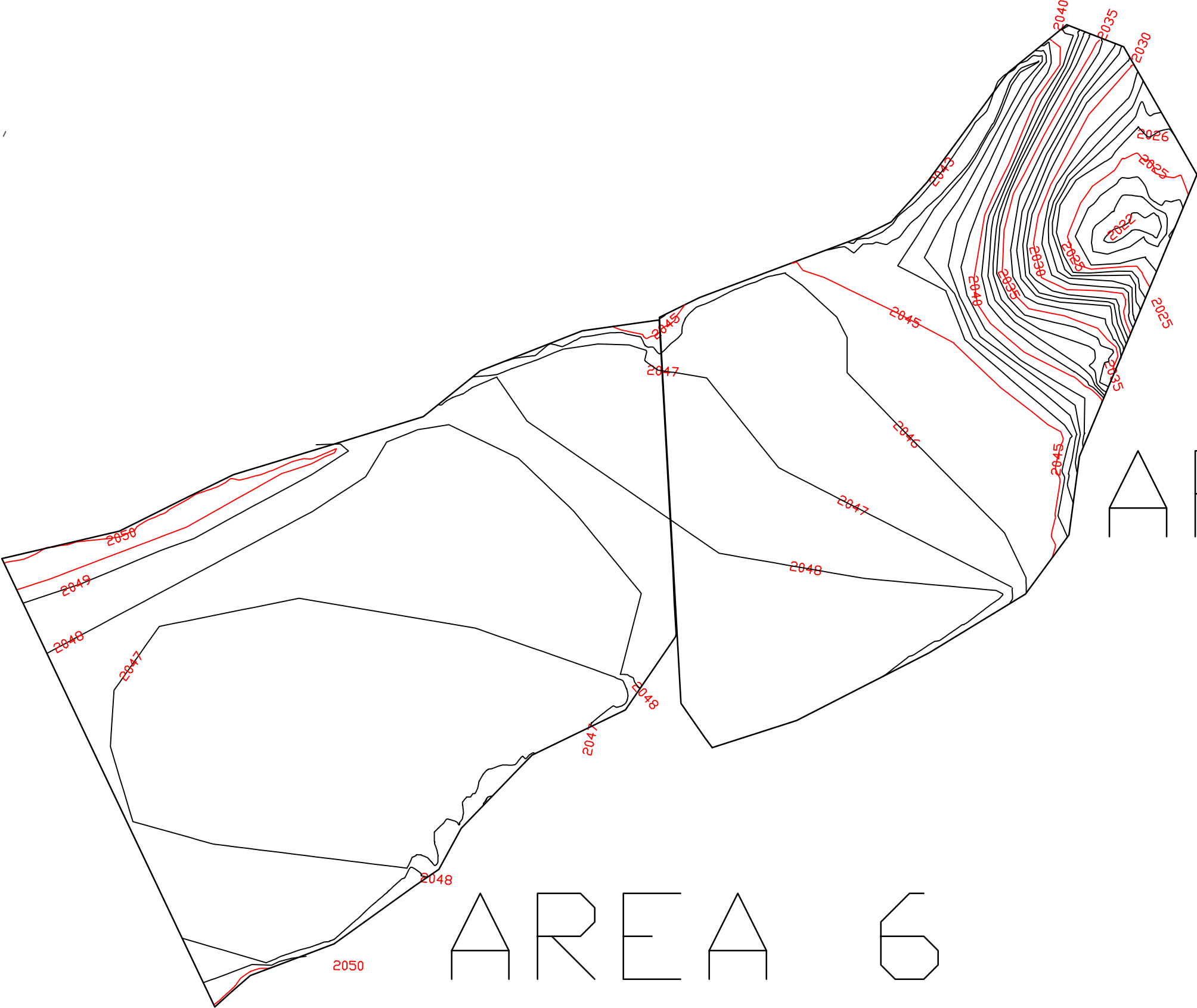
AREA 6

AREA 7

COLUMBUS AML PROJECT
PHASE 13
PRE-RECLAMATION TOPO.
PLAN SHEET 15 OF 29



SCALE: 1"=100'





SCALE: 1"=100'

CUT is in RED

DAYLIGHT is in GREEN

FILL is in BLUE

CUT and Fill are shown with 2' contour intervals
Index contours are at 10' intervals and labeled.

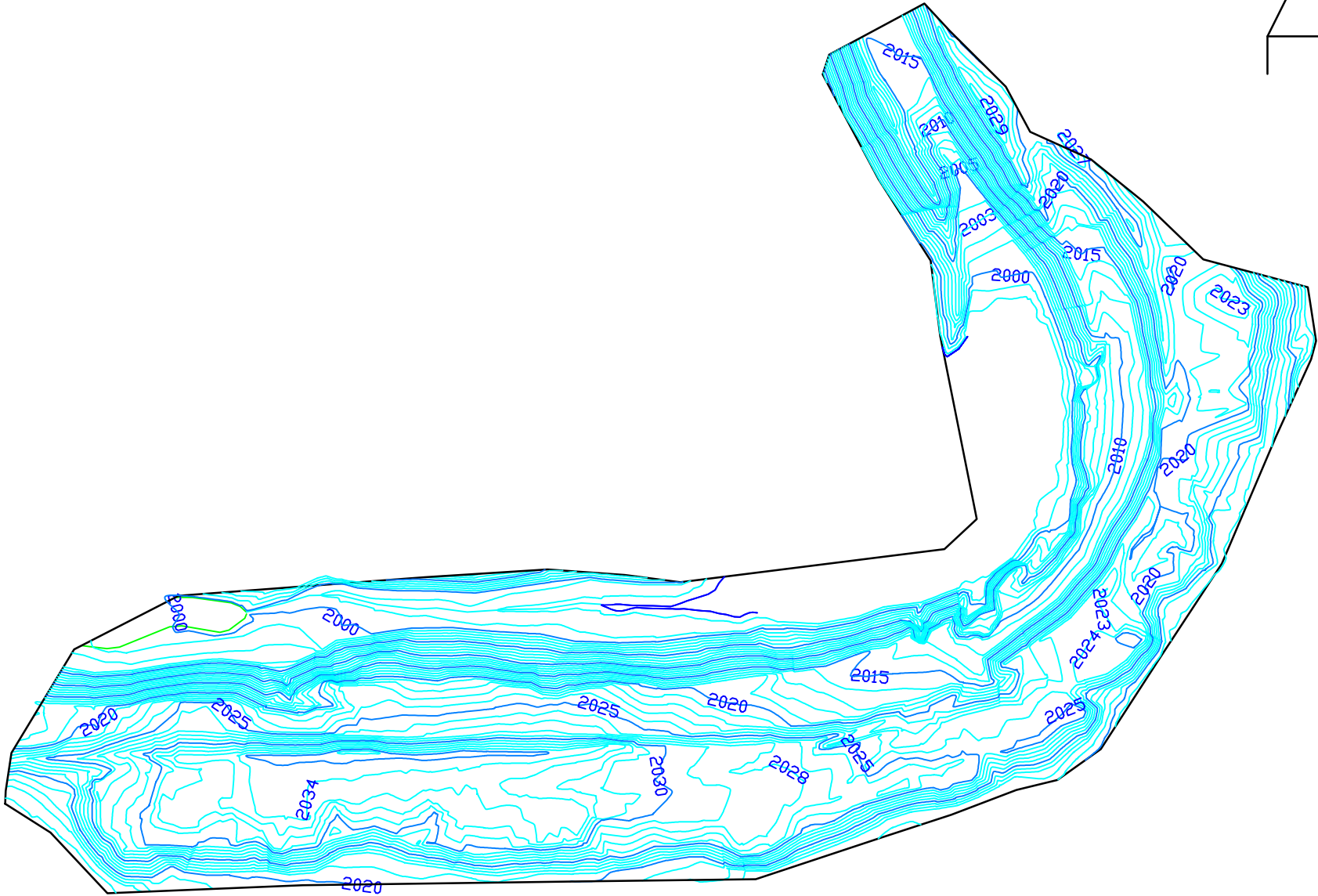
ARE A 7

COLUMBUS AML PROJECT
PHASE 13
CUT AND FILL MAP
PLAN SHEET 17 OF 29

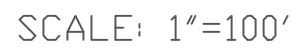


SCALE: 1"=100'

AREA 8



COLUMBUS AML PROJECT
PHASE 13
PRE-RECLAMATION TOPO.
PLAN SHEET 18 OF 29



COLUMBUS AML PROJECT
PHASE 13
POST-RECLAMATION TOPO.
PLAN SHEET 19 OF 29

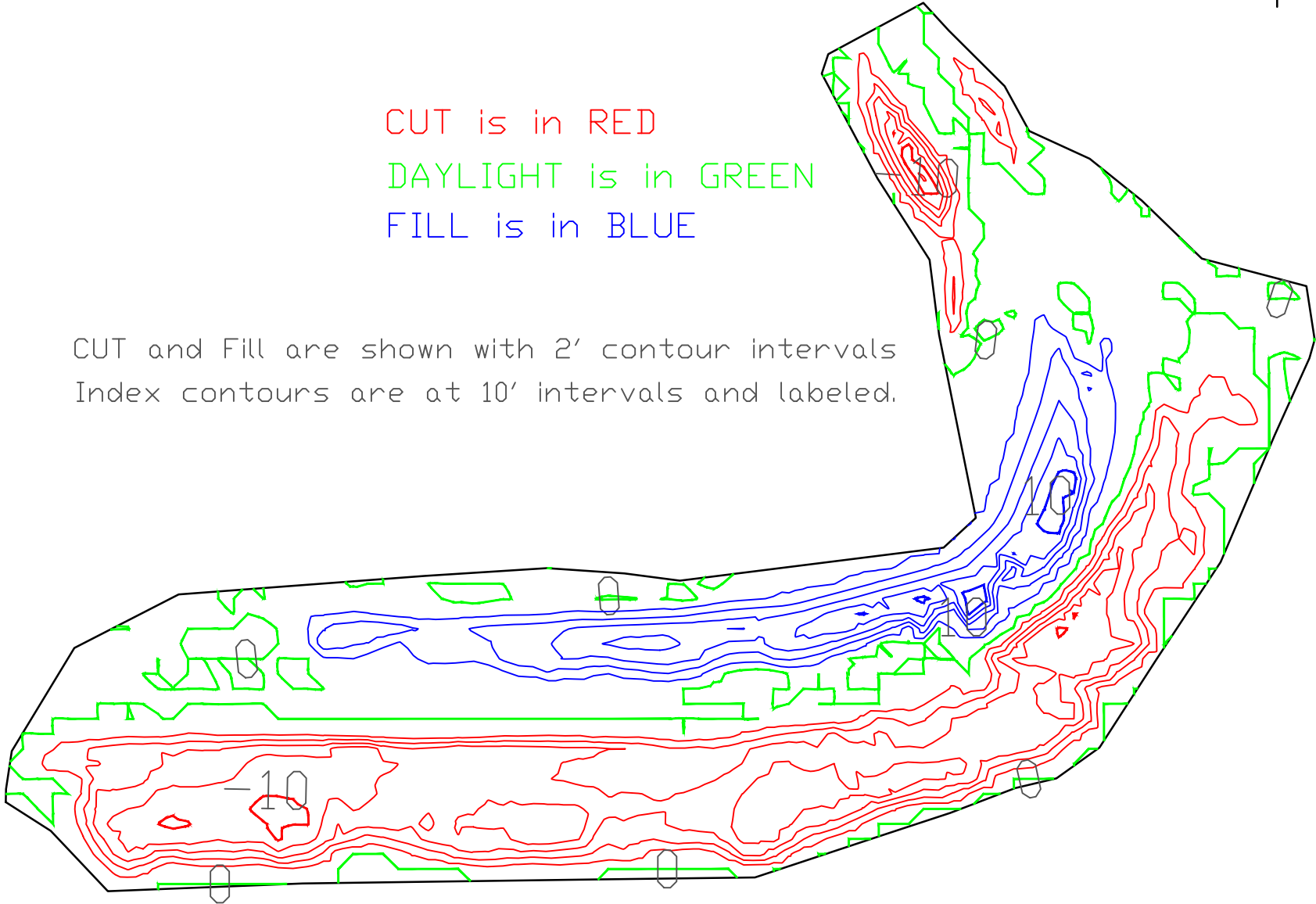


SCALE: 1"=100'

AREA 8

CUT is in RED
DAYLIGHT is in GREEN
FILL is in BLUE

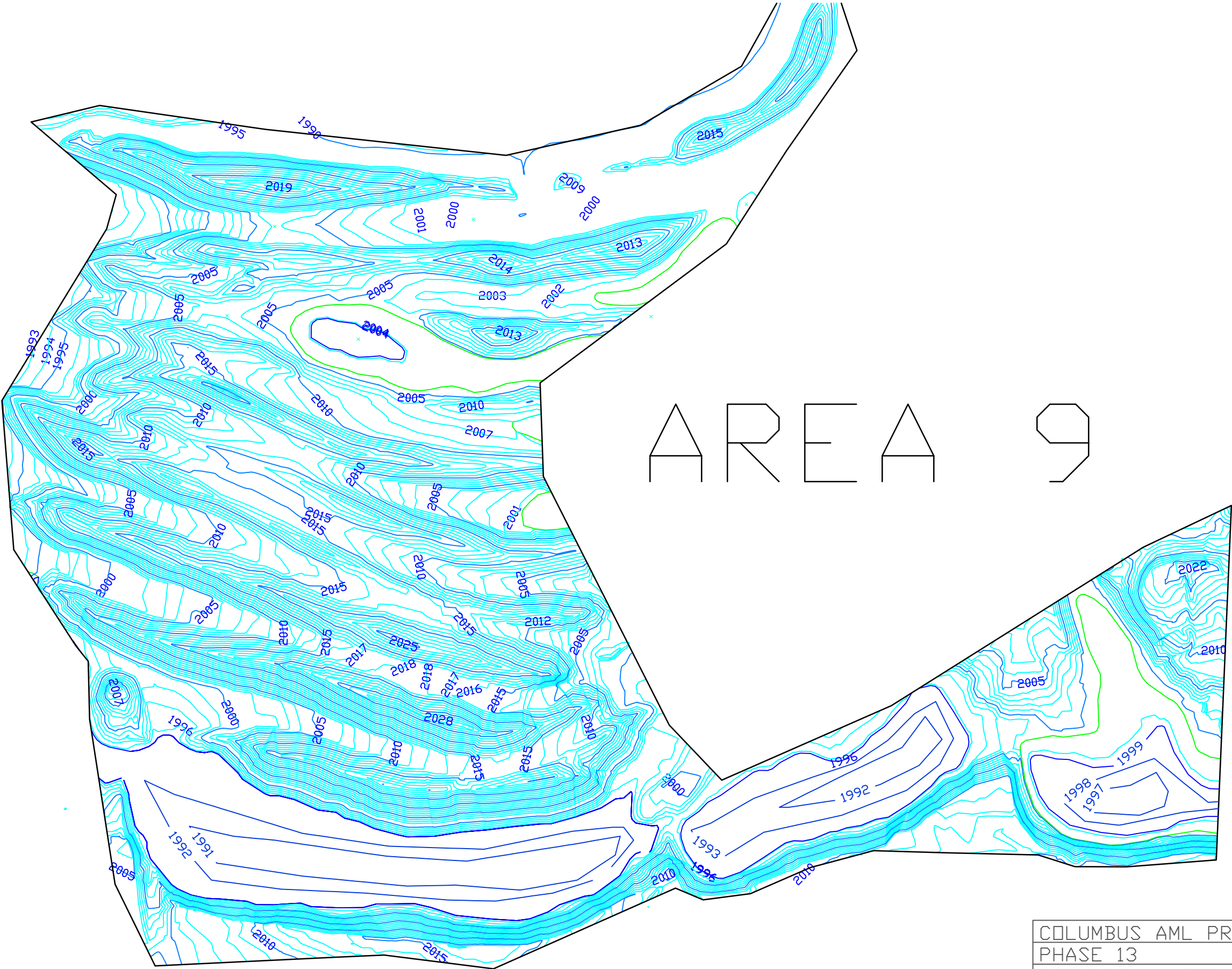
CUT and Fill are shown with 2' contour intervals
Index contours are at 10' intervals and labeled.



COLUMBUS AML PROJECT
PHASE 13
CUT AND FILL MAP
PLAN SHEET 20 OF 29



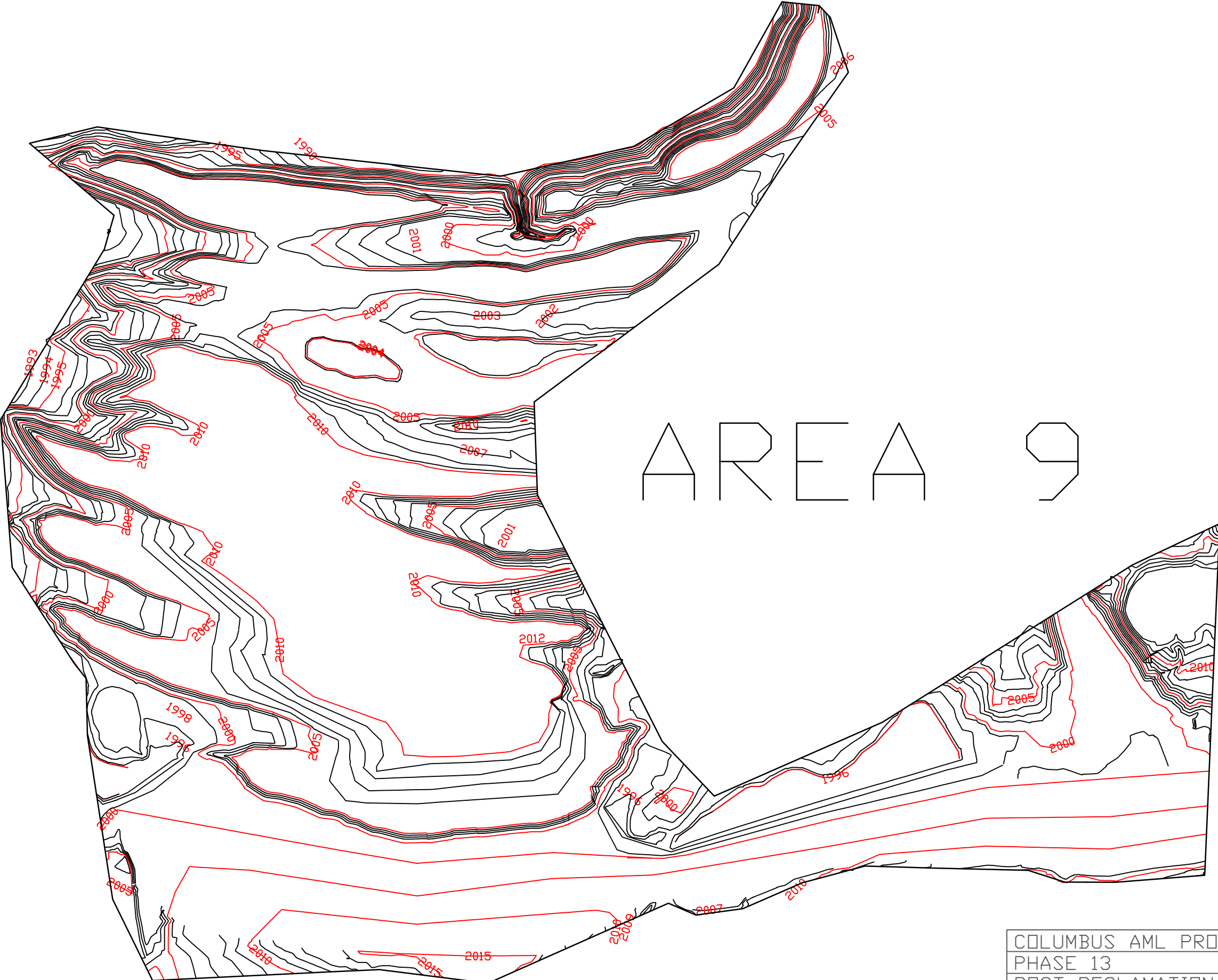
SCALE: 1"=100'



COLUMBUS AML PROJECT
PHASE 13
PRE-RECLAMATION TOPO.
PLAN SHEET 21 OF 29



SCALE: 1"=100'



COLUMBUS AML PROJECT
PHASE 13
POST-RECLAMATION TOPO.
PLAN SHEET 22 OF 29

CUT and Fill are shown with 2' contour intervals
Index contours are at 10' intervals and labeled.

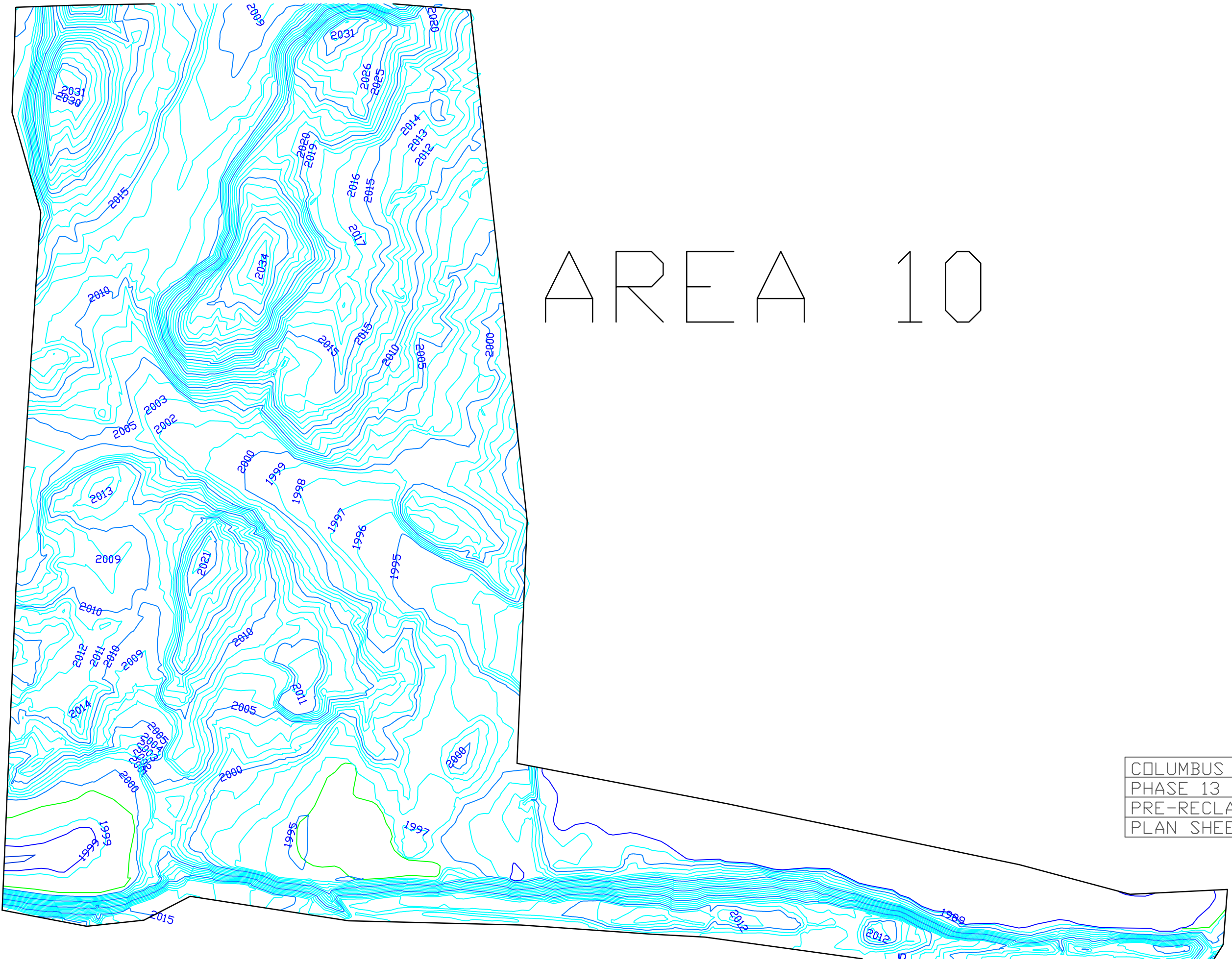
CUT is in RED
DAYLIGHT is in GREEN
FILL is in BLUE

AREA 9



SCALE: 1"=100'

COLUMBUS AML PROJECT
PHASE 13
CUT AND FILL MAP
PLAN SHEET 23 OF 29



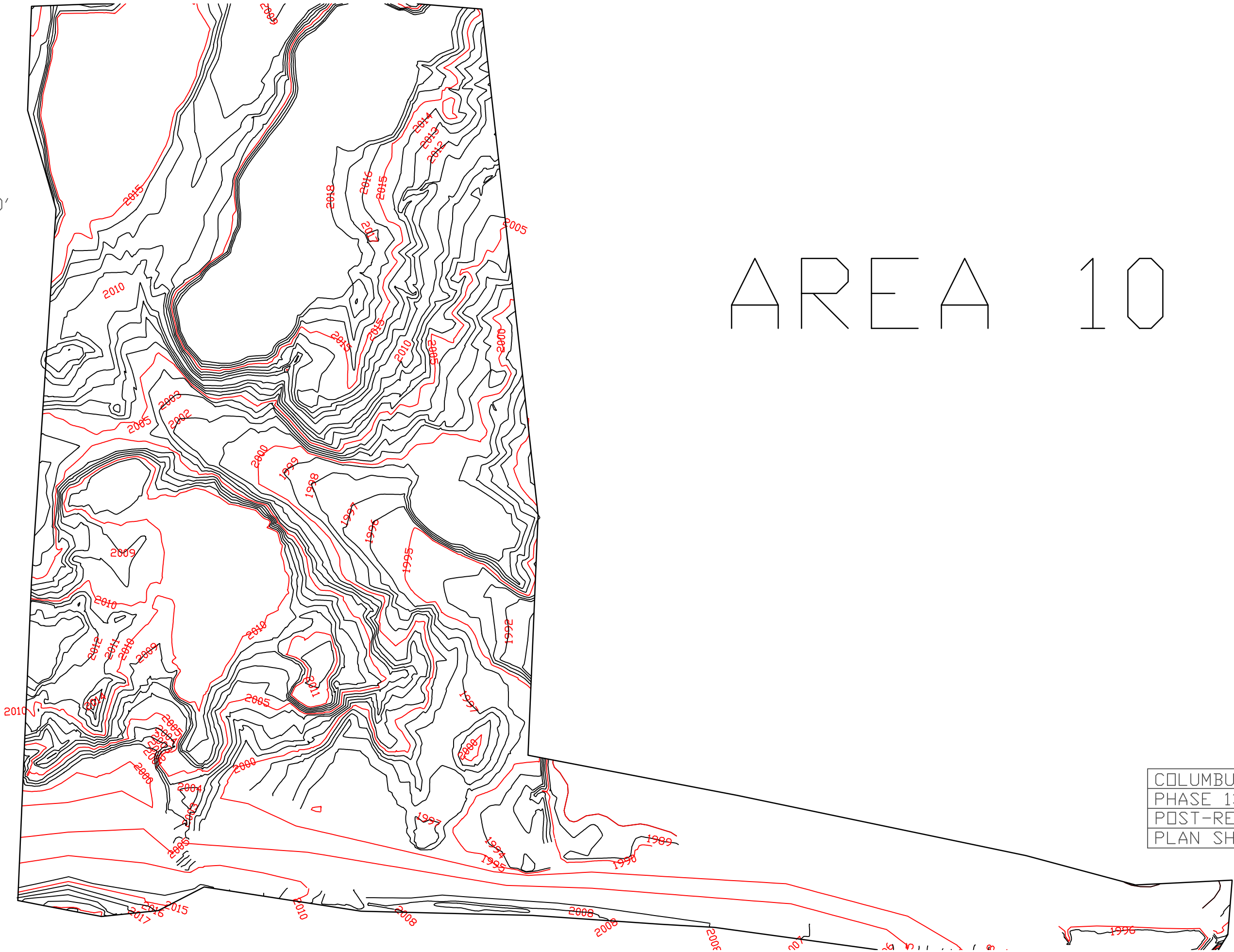
SCALE: 1"=100'

AREA 10

COLUMBUS AML PROJECT
PHASE 13
PRE-RECLAMATION TOPO.
PLAN SHEET 24 OF 29



SCALE: 1"=100'

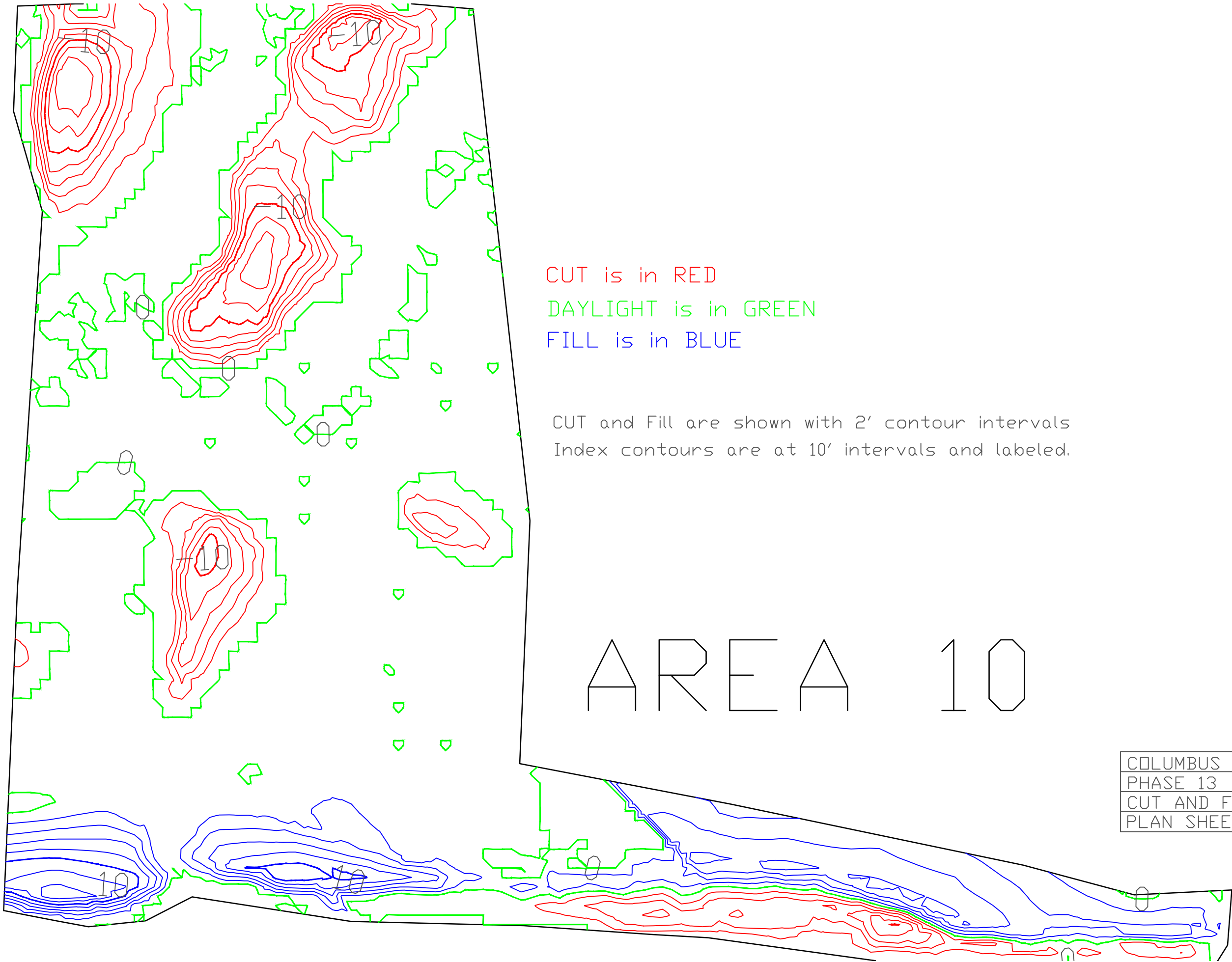


AREA 10

COLUMBUS AML PROJECT
PHASE 13
POST-RECLAMATION TOPO.
PLAN SHEET 25 OF 29



SCALE: 1"=100'



CUT is in RED
DAYLIGHT is in GREEN
FILL is in BLUE

CUT and Fill are shown with 2' contour intervals
Index contours are at 10' intervals and labeled.

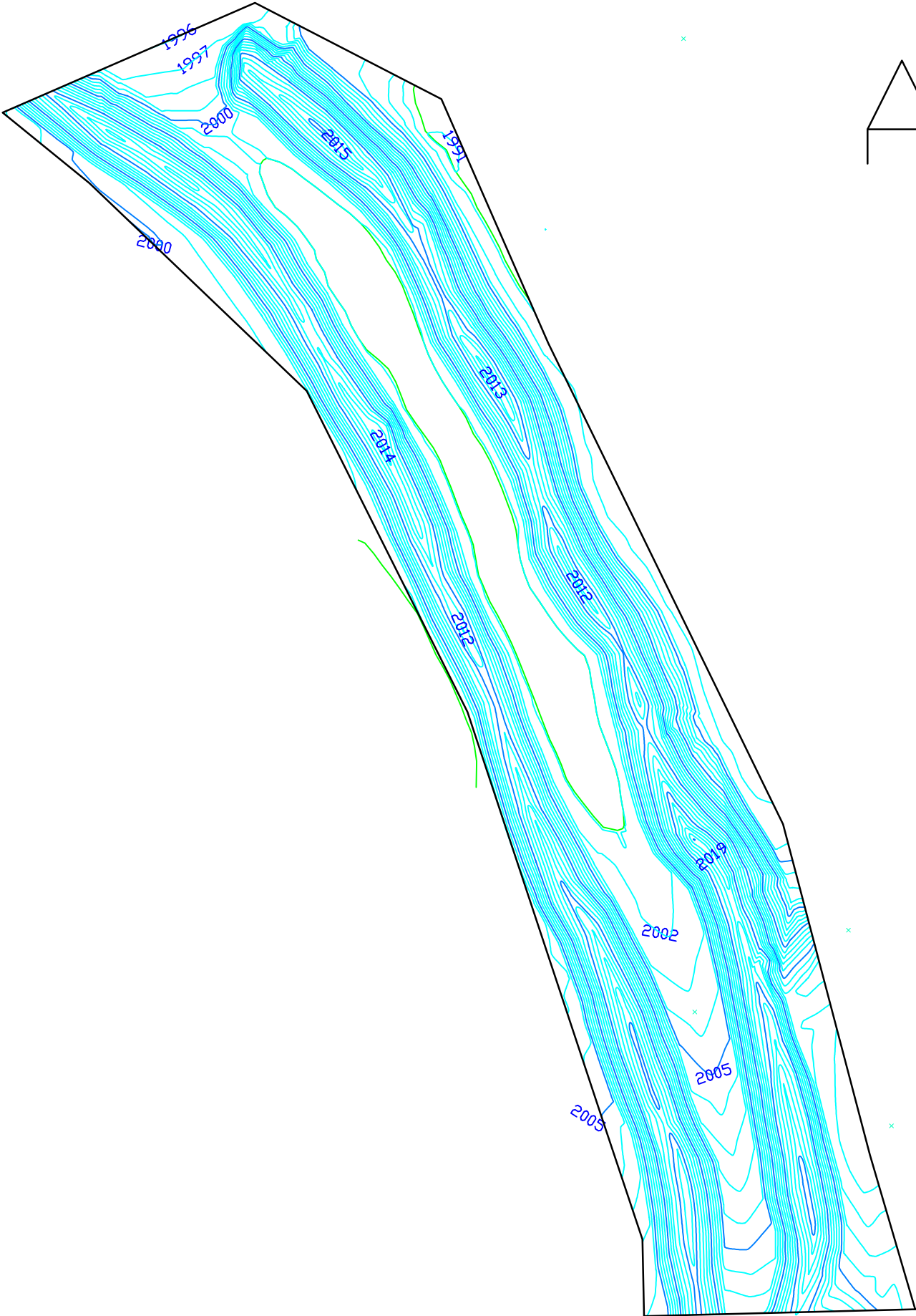
AREA 10

COLUMBUS AML PROJECT
PHASE 13
CUT AND FILL MAP
PLAN SHEET 26 OF 29

SCALE: 1"=100'



AREA 11

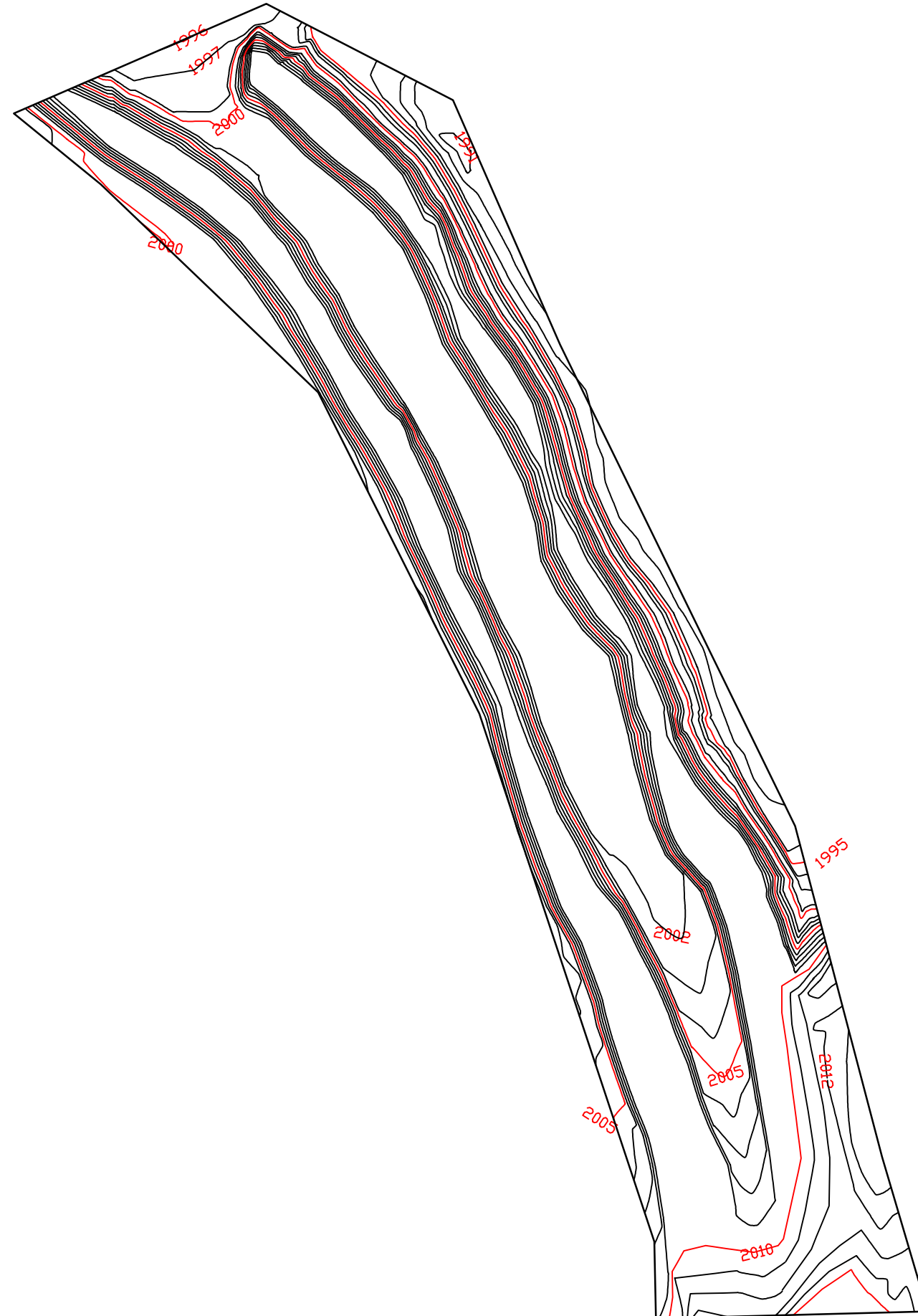


COLUMBUS AML PROJECT
PHASE 13
PRE-RECLAMATION TOPO.
PLAN SHEET 27 OF 29

AREA 11



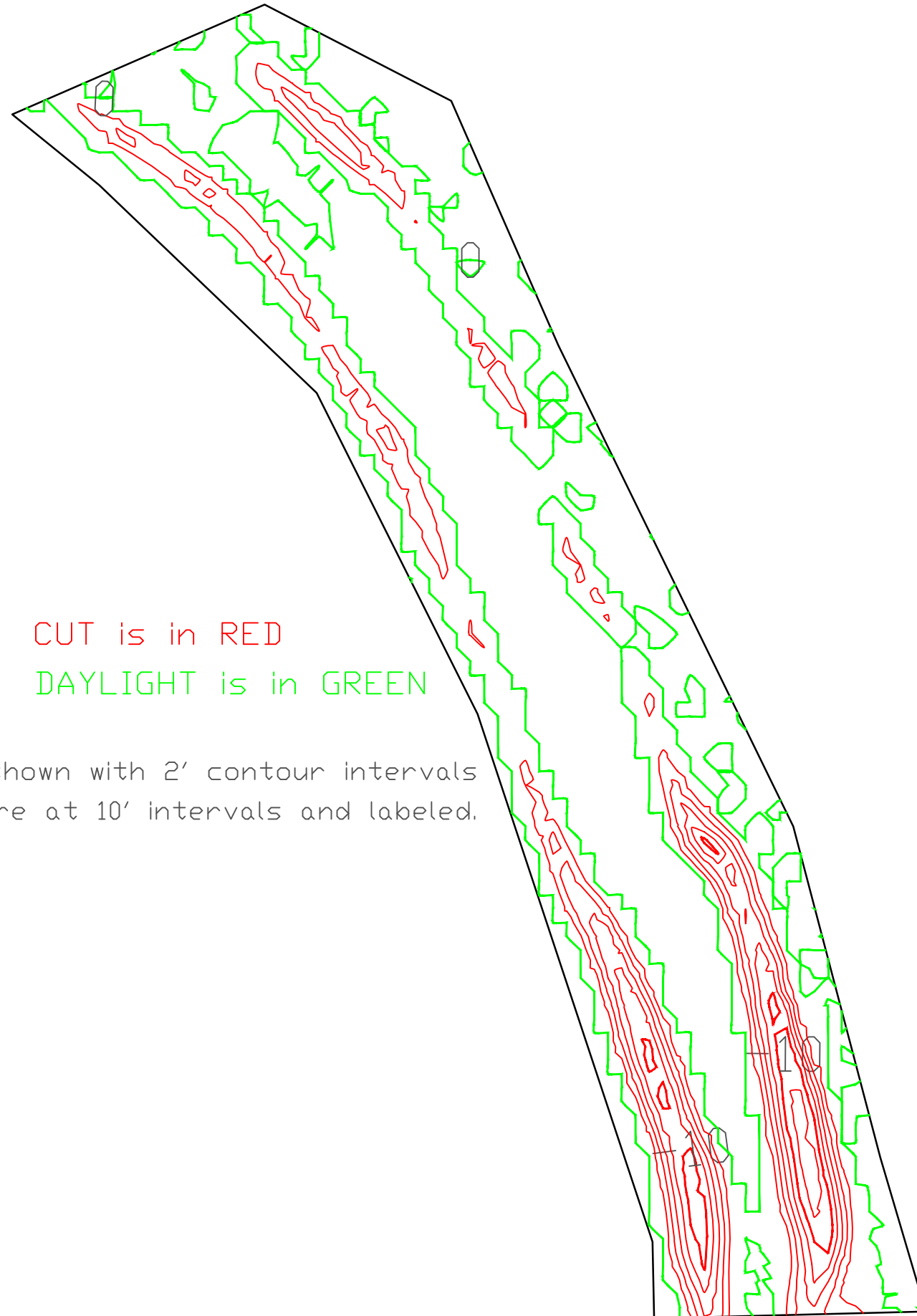
SCALE: 1"=100'



COLUMBUS AML PROJECT
PHASE 13
POST-RECLAMATION TOPO.
PLAN SHEET 28 OF 29



SCALE: 1"=100'



CUT is in RED
DAYLIGHT is in GREEN

CUT and Fill are shown with 2' contour intervals
Index contours are at 10' intervals and labeled.

AREA 1

COLUMBUS AML PROJECT
PHASE 13
CUT AND FILL MAP
PLAN SHEET 29 OF 29