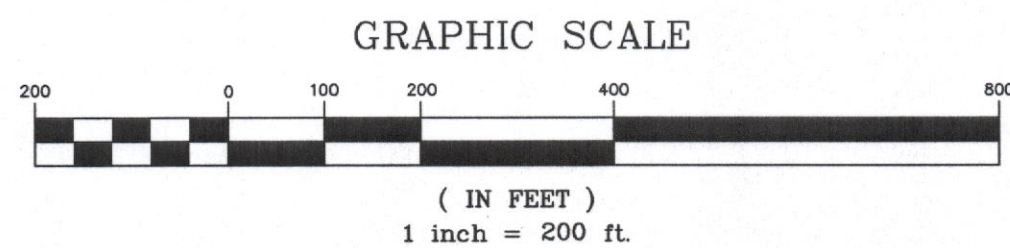


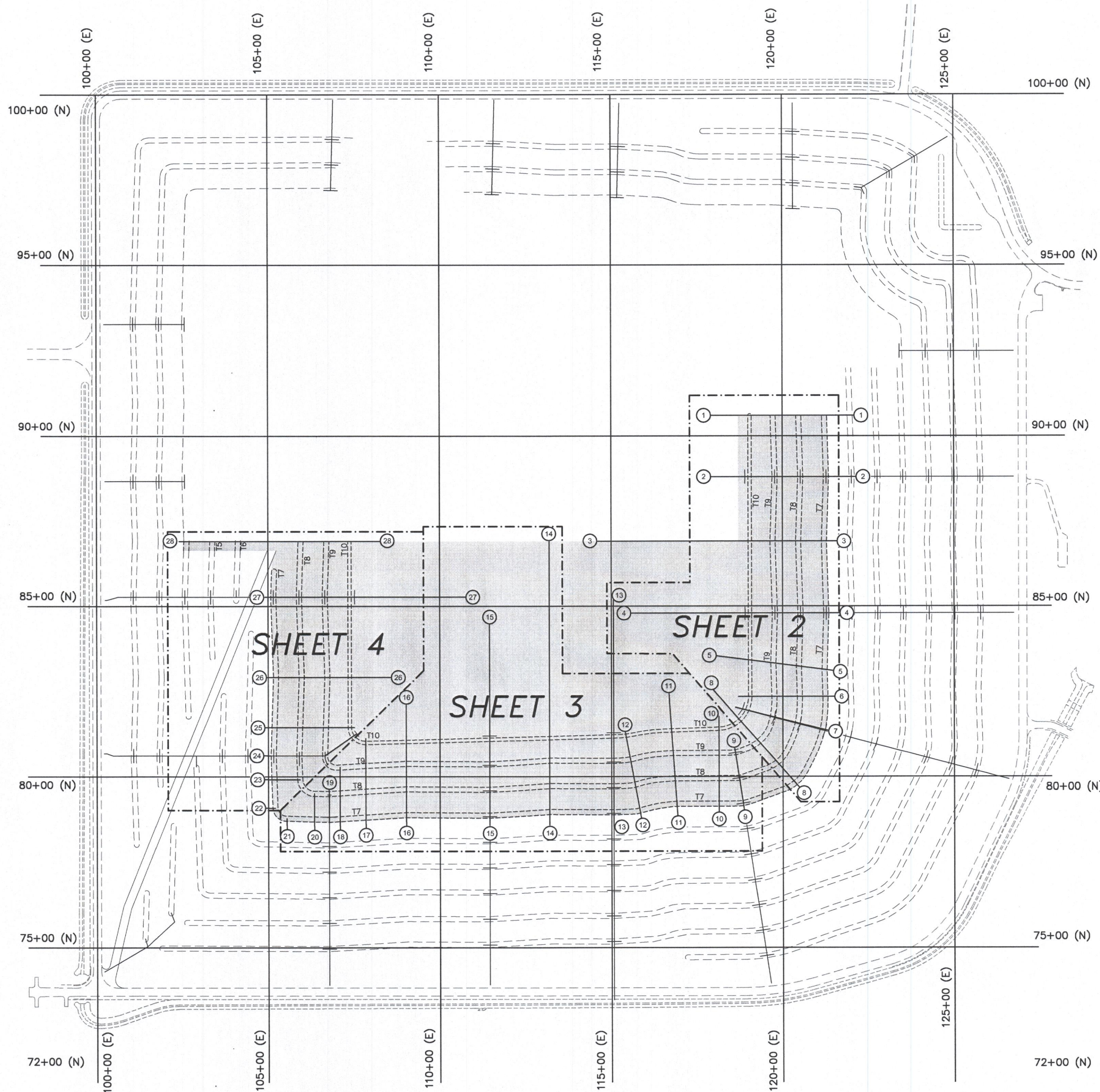
VICINITY MAP  
(NOT TO SCALE)



GENERAL NOTES:

- 1) THE PURPOSE OF THIS SURVEY IS TO DENOTE THE AS-BUILT DATA FOR TRAIL RIDGE LANDFILL INCREMENTAL CLOSURE (CLOSURE PHASE 5, 6 AND 7) OF THE SIDE SLOPES.
- 2) THE HORIZONTAL GRID DEPICTED HEREON IS REFERENCED TO A LOCAL DATUM.
- 3) SOURCE BENCHMARK IS A CONCRETE MONUMENT WITH A U.S. COASTAL AND GEODETIC SURVEY DISK STAMPED "AJ-59", LOCATED ALONG U.S. HIGHWAY No. 301 APPROXIMATELY 800 FEET NORTHERLY OF ITS INTERSECTION WITH STATE ROAD No. 228. PID No. BD1401, ELEVATION 88.41 FEET (NATIONAL GEODETIC VERTICAL DATUM 1929).
- 4) THIS COMPILATION OF AS-BUILT DATA WAS COLLECTED BY THIS FIRM FROM APRIL 2016 THROUGH MAY 2017.
- 5) SURVEY PERFORMED WITHOUT BENEFIT OF COMMITMENT FOR TITLE, AND MAY THEREFORE BE SUBJECT TO RESTRICTIONS, RESERVATIONS, EASEMENTS AND RIGHTS OF WAY OF RECORD AND/OR NON-RECORD THAT DO NOT APPEAR HEREON.
- 6) FOLLOWING INITIAL COVER PLACEMENT AND AS-BUILTS, THE CONTRACTOR PLACED (TWO) 6 INCH LIFTS OF CLAY AND A 24 INCH VEGETATIVE COVER LAYER THAT RESULTED IN SETTLEMENT OVER THE 2 YEAR PERIOD FOR THIS PROJECT. THEREFORE THE AS-BUILT ELEVATIONS WILL NOT BE COMPARABLE TO DESIGN GRADES, BUT THE ENGINEER OF RECORD CONFIRMS THAT REQUIRED THICKNESS OF CLAY AND FINAL COVER ARE IN COMPLIANCE WITH PROJECT SPECIFICATIONS. THE USE OF AN ASTERISK (\*) SYMBOL HEREON DESIGNATES THESE AREAS IN THE TABLES ON SHEETS 2, 3 AND 4.
- 7) THE TOP AND BOTTOM ELEVATIONS FOR TERRACE 7 ARE PART OF THE PHASE 4 CLOSURE. THESE ELEVATIONS HAVE BEEN OMITTED FROM THE TABLES ON SHEETS 2, 3 AND 4 AS THEY ARE NOT PART OF THIS ASBUILT SURVEY. THE USE OF AN ( XX ) SYMBOL HEREON DESIGNATES THESE AREAS IN THE TABLES ON SHEETS 2, 3 AND 4.

AS-BUILT



- LEGEND:
- |      |                              |
|------|------------------------------|
| S-35 | STRUCTURE NUMBER             |
| T1   | TERRACE NUMBER               |
| D33  | DOWNCOMER PIPE NUMBER        |
| 310  | CONTOUR ELEVATION            |
| NDA  | NO DATA AVAILABLE            |
| *    | SEE NOTE 6 ON SHEET 1 OF 4   |
| XX   | SEE NOTE 7 ON SHEET 1 OF 4   |
| ⊕    | DOWNCOMER PIPE               |
| ⊖    | SLOPE PROFILE NUMBER         |
| ⊗    | LIMITS OF SIDE SLOPE CLOSURE |
| ⊘    | CLOSED SIDE SLOPE UNIT       |

AS-BUILT SURVEY OF  
TRAIL RIDGE LANDFILL INCREMENTAL CLOSURE PHASES 5-7  
A PORTION OF SECTION 19, TOWNSHIP 3 SOUTH,  
RANGE 23 EAST, DUVAL COUNTY, FLORIDA, ALSO BEING  
A PORTION OF THOSE LANDS DESCRIBED AND RECORDED  
IN OFFICIAL RECORDS BOOK 7245, PAGE 1751,  
OF THE CURRENT PUBLIC RECORDS OF SAID COUNTY.

**Orma**  
ROBERT M. ANAS ASSOCIATES, INC.  
14775 Old St. Augustine Road, Jacksonville, FL 32258  
Tel: (904) 642-6550 Fax: (904) 642-4165  
Certificate of Authorization No.: LB 3624

SHEET  
1  
OF  
4

DAMON L. KELLY  
PROFESSIONAL SURVEYOR AND MAPPER  
STATE OF FLORIDA, L.S. No. 6284  
6284@floridasurvey.com

DATE: AUGUST 30, 2017

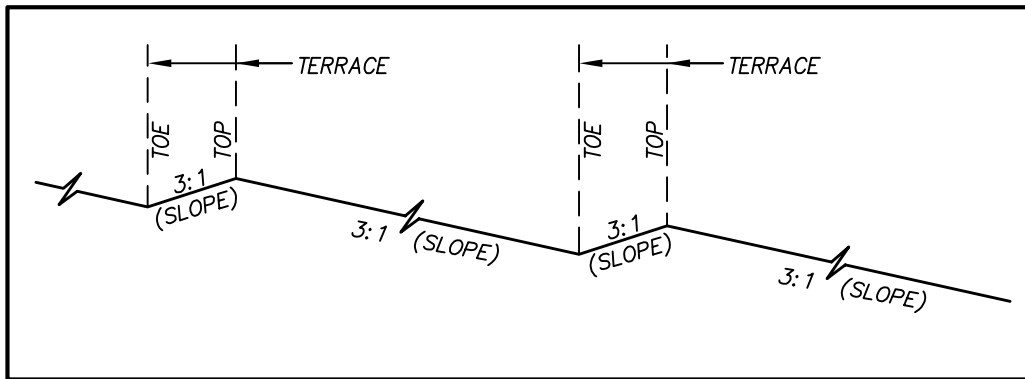


EASTERN SLOPE (Profile 1) (90+60 North)							
DESCRIPTION	LOCATION STATION	INITIAL COVER			FINAL COVER		
		DESIGN	AS-BUILT	DATE	DESIGN	AS-BUILT	DATE
TERRACE No. 7 TOP	86+90 N 121+29.65 E	XX	XX	XX	271.80	266.21*	8-15-17
TERRACE No. 7 BOTTOM	86+90 N 121+22.15 E	XX	XX	XX	269.30	265.14*	8-15-17
TERRACE No. 8 TOP	86+90 N 120+54.35 E	288.74	288.70	4-22-16	291.90	286.44*	8-21-17
TERRACE No. 8 BOTTOM	86+90 N 120+46.85 E	286.24	286.17	4-22-16	289.40	284.75*	8-21-17
TERRACE No. 9 TOP	86+90 N 119+79.35 E	308.74	308.64	4-22-16	311.90	305.71*	8-21-17
TERRACE No. 9 BOTTOM	86+90 N 119+71.85 E	306.24	306.20	4-22-16	309.40	303.70*	8-21-17
TOP BERM (T10)	86+90 N 119+10.05 E	326.70	326.61	4-22-16	330.00	324.50*	8-16-17
TOP BERM (T10)	86+90 N 119+00.05 E	326.70	326.65	4-22-16	330.00	325.30*	8-16-17
GRADE BREAK	86+90 N 118+97.05 E	325.70	325.68	4-22-16	329.00	324.11*	8-16-17
LIMITS OF FINAL COVER	86+90 N 118+71.05 E	327.14	327.11	4-22-16	329.29	325.15*	8-16-17

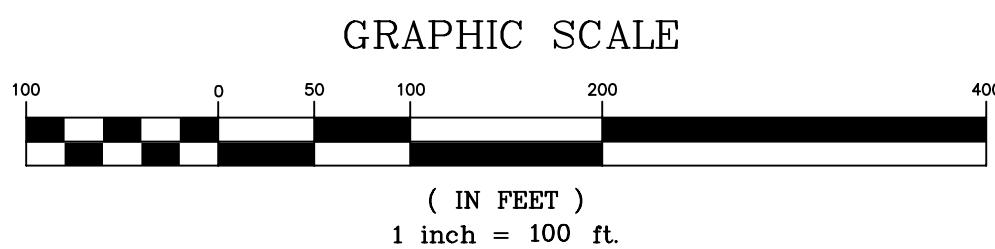
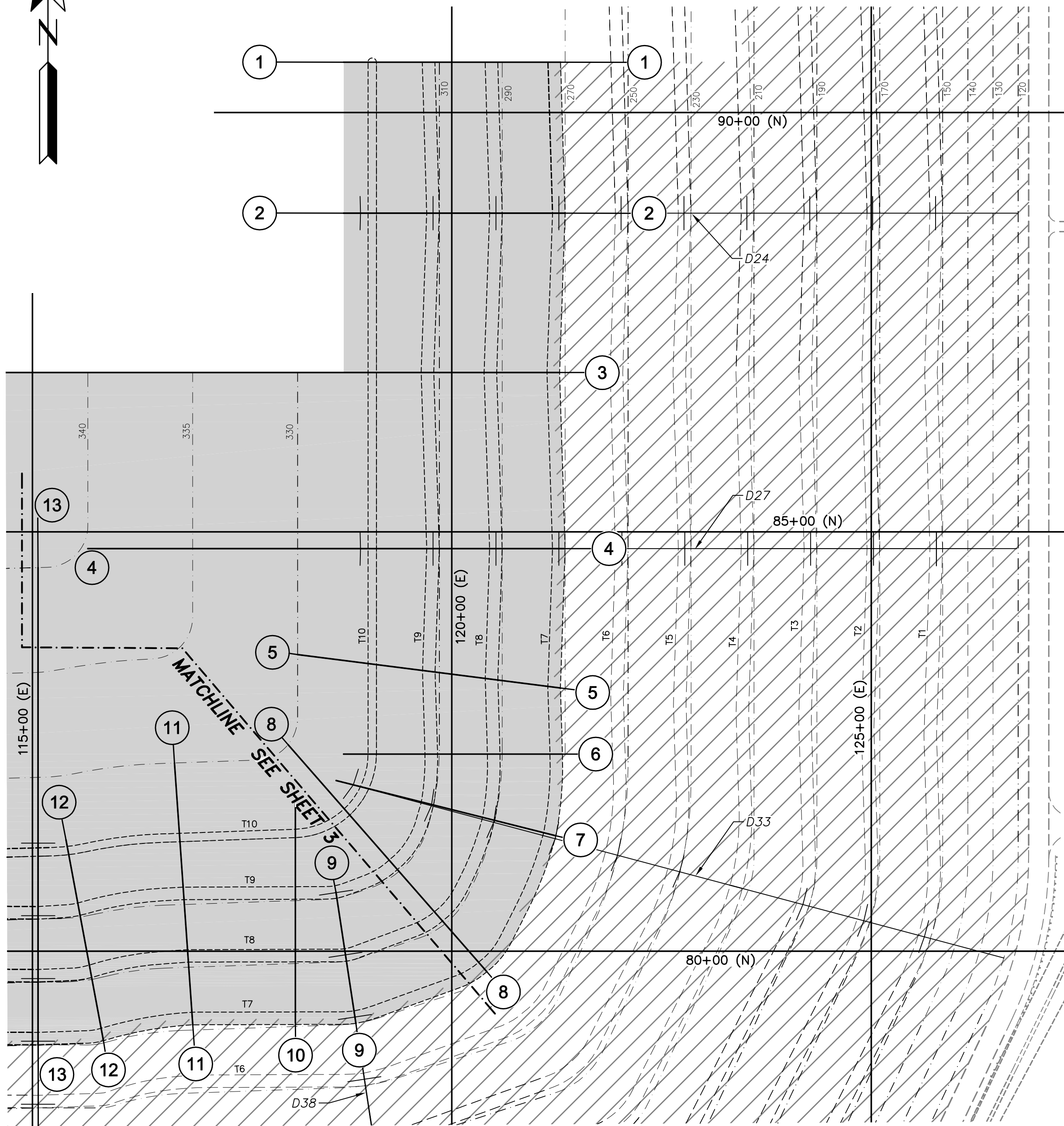
EASTERN SLOPE (Profile 2--Low Point at Downcomer D-24)							
DESCRIPTION	LOCATION STATION	INITIAL COVER			FINAL COVER		
		DESIGN	AS-BUILT	DATE	DESIGN	AS-BUILT	DATE
TERRACE No. 7 TOP	88+80 N 121+35.05 E	XX	XX	XX	270.00	266.22*	8-15-17
TERRACE No. 7 BOTTOM	88+80 N 121+27.55 E	XX	XX	XX	267.50	263.55*	8-15-17
TERRACE No. 8 TOP	88+80 N 120+60.05 E	286.84*	286.73	4-21-16	290.00	286.00*	8-21-17
TERRACE No. 8 BOTTOM	88+80 N 120+52.55 E	284.34	284.33	4-21-16	287.50	283.50*	8-21-17
TERRACE No. 9 TOP	88+80 N 119+85.05 E	306.84	306.79	4-21-16	310.00	305.18*	8-21-17
TERRACE No. 9 BOTTOM	88+80 N 119+77.55 E	304.34	304.30	4-21-16	307.50	302.10*	8-21-17
TOP BERM (T10)	88+80 N 119+10.05 E	326.70	326.60	4-21-16	330.00	324.63*	8-16-17
TOP BERM (T10)	88+80 N 119+00.05 E	326.70	326.60	4-21-16	330.00	324.52*	8-16-17
GRADE BREAK	88+80 N 118+91.05 E	323.70	323.80	4-21-16	327.00	322.13*	8-16-17
LIMITS OF FINAL COVER	88+80 N 118+71.05 E	325.35	325.40	4-21-16	327.50	323.50*	8-16-17

EASTERN SLOPE (Profile 3--High Point)							
DESCRIPTION	LOCATION STATION	INITIAL COVER			FINAL COVER		
		DESIGN	AS-BUILT	DATE	DESIGN	AS-BUILT	DATE
TERRACE No. 7 TOP	86+90 N 121+28.45 E	XX	XX	XX	272.20	266.87*	8-15-17
TERRACE No. 7 BOTTOM	86+90 N 121+20.95 E	XX	XX	XX	269.70	265.86*	8-15-17
TERRACE No. 8 TOP	86+90 N 120+53.45 E	289.04	289.10	10-20-16	292.20	286.96*	8-21-17
TERRACE No. 8 BOTTOM	86+90 N 120+45.95 E	286.54	286.54	6-14-16	289.70	285.34*	8-21-17
TERRACE No. 9 TOP	86+90 N 119+78.45 E	309.04	308.99	10-20-16	312.20	306.74*	8-21-17
TERRACE No. 9 BOTTOM	86+90 N 119+70.95 E	306.54	306.46	4-21-16	309.70	305.23*	8-21-17
TOP BERM (T10)	86+90 N 119+10.05 E	326.70	326.70	10-20-16	330.00	324.51*	8-16-17
TOP BERM (T10)	86+90 N 119+00.05 E	326.70	326.70	4-21-16	330.00	324.69*	8-16-17
GRADE BREAK	86+90 N 118+97.35 E	326.95*	325.90*	4-21-16*	329.10	323.73*	8-16-17
LIMITS OF FINAL COVER	86+90 N 118+71.05 E	327.20*	327.00*	4-21-16*	329.36	325.05*	8-16-17
GRADE BREAK	86+90 N 118+16.05 E	327.85	327.81	2-8-17	330.00	327.64*	8-16-17
GRADE BREAK	86+90 N 116+91.05 E	332.85*	332.70*	2-8-17*	335.00	333.41*	8-16-17
GRADE BREAK	86+90 N 115+66.05 E	337.85*	337.56*	2-8-17*	340.00	337.73*	8-16-17
GRADE BREAK	86+90 N 114+41.05 E	342.85*	342.70*	2-8-17*	345.00	342.51*	8-16-17
GRADE BREAK	86+90 N 113+41.05 E	346.85*	346.32*	2-8-17*	349.00	346.30*	8-16-17
GRADE BREAK	86+90 N 113+21.3 E	346.95*	346.75*	2-8-17*	349.10	346.50*	8-16-17
GRADE BREAK	86+90 N 113+01.55 E	346.85*	346.51*	2-8-17*	349.00	346.35*	8-16-17

EASTERN SLOPE (Profile 4--Low Point at Downcomer D-27)							
DESCRIPTION	LOCATION STATION	INITIAL COVER			FINAL COVER		
		DESIGN	AS-BUILT	DATE	DESIGN	AS-BUILT	DATE
TERRACE No. 7 TOP	84+80 N 121+35.05 E	XX	XX	XX	270.00	265.32*	8-15-17
TERRACE No. 7 BOTTOM	84+80 N 121+27.55 E	XX	XX	XX	267.50	263.33*	8-15-17
TERRACE No. 8 TOP	84+80 N 120+60.05 E	286.84*	288.54*	10-20-16*	290.00	285.43*	8-21-17
TERRACE No. 8 BOTTOM	84+80 N 120+52.55 E	284.34	286.27	10-20-16	287.50	283.59*	8-21-17
TERRACE No. 9 TOP	84+80 N 119+85.05 E	306.84	306.85	6-14-16	310.00	304.26*	8-21-17
TERRACE No. 9 BOTTOM	84+80 N 119+77.55 E	304.34*	304.62*	6-14-16*	307.50	301.92*	8-21-17
TOP BERM (T10)	84+80 N 119+10.05 E	326.70	326.69	10-20-16	330.00	324.23*	8-16-17
TOP BERM (T10)	84+80 N 119+00.05 E	326.70*	327.04*	6-14-16*	330.00	324.40*	8-21-17
GRADE BREAK	84+80 N 118+91.05 E	323.70*	321.20*	2-8-17*	327.00	321.62*	8-16-17
LIMITS OF FINAL COVER	84+80 N 118+71.05 E	325.30*	323.03*	2-8-17*	327.44	323.08*	8-16-17
GRADE BREAK	84+80 N 118+16.05 E	327.85	327.90	2-8-17	330.00	327.45*	8-16-17
GRADE BREAK	84+80 N 116+91.05 E	332.85*	332.74*	2-8-17*	335.00	332.63*	8-16-17
GRADE BREAK	84+80 N 115+66.05 E	337.85	337.90	2-8-17	340.00	337.18*	8-16-17



TYPICAL TERRACE DETAIL  
(NOT TO SCALE)



LEGEND:

- S-35 STRUCTURE NUMBER
- T1 TERRACE NUMBER
- D33 DOWNCOMER PIPE NUMBER
- 310 CONTOUR ELEVATION
- NDA NO DATA AVAILABLE
- XX SEE NOTE 6 ON SHEET 1 OF 4
- SEE NOTE 7 ON SHEET 1 OF 4
- DOWNCOMER PIPE
- ① SLOPE PROFILE NUMBER
- LIMITS OF SIDE SLOPE CLOSURE
- ▨ CLOSED SIDE SLOPE UNIT

EASTERN SLOPE (Profile 5--High Point Between Downcomers D-33 and D-27)							
DESCRIPTION	LOCATION STATION	INITIAL COVER			FINAL COVER		
		DESIGN	AS-BUILT	DATE	DESIGN	AS-BUILT	DATE
TERRACE No. 7 TOP	83+13.85 N 121+29.47 E	XX	XX	XX	271.90	266.66*	8-15-17
TERRACE No. 7 BOTTOM	83+14.8 N 121+22 E	XX	XX	XX	269.40	265.03*	8-15-17
TERRACE No. 8 TOP	83+23.33 N 120+54.91 E	288.64	288.54	6-14-16	291.80	287.02*	8-21-17
TERRACE No. 8 BOTTOM	83+24.29 N 120+47.47 E	286.14	286.09	6-14-16	289.30	285.69*	8-21-17
TERRACE No. 9 TOP	83+32.74 N 119+81 E	308.44*	308.22*	6-14-16*	311.64	306.43*	8-21-17
TERRACE No. 9 BOTTOM	83+33.68 N 119+73.56 E	305.94	305.87	6-14-16	309.10	304.03*	8-21-17
TOP BERM (T10)	83+41.75 N 119+10.05 E	326.70	326.65	6-14-16	330.00	324.23*	8-21-17
TOP BERM (T10)	83+43.05 N 119+00.05 E	326.70	NDA	NDA	330.00	324.78*	8-21-17
GRADE BREAK	83+43.6 N 118+95.55 E	325.20*	323.30*	2-8-17*	328.50	323.29*	8-21-17
GRADE BREAK	83+48.43 N 118+71.05 E	325.90*	324.86*	2-8-17*	329.20	324.22*	8-21-17
GRADE BREAK	83+53.75 N 118+16.05 E	327.85*	328.02*	2-8-17*	330.00	327.22*	8-21-17

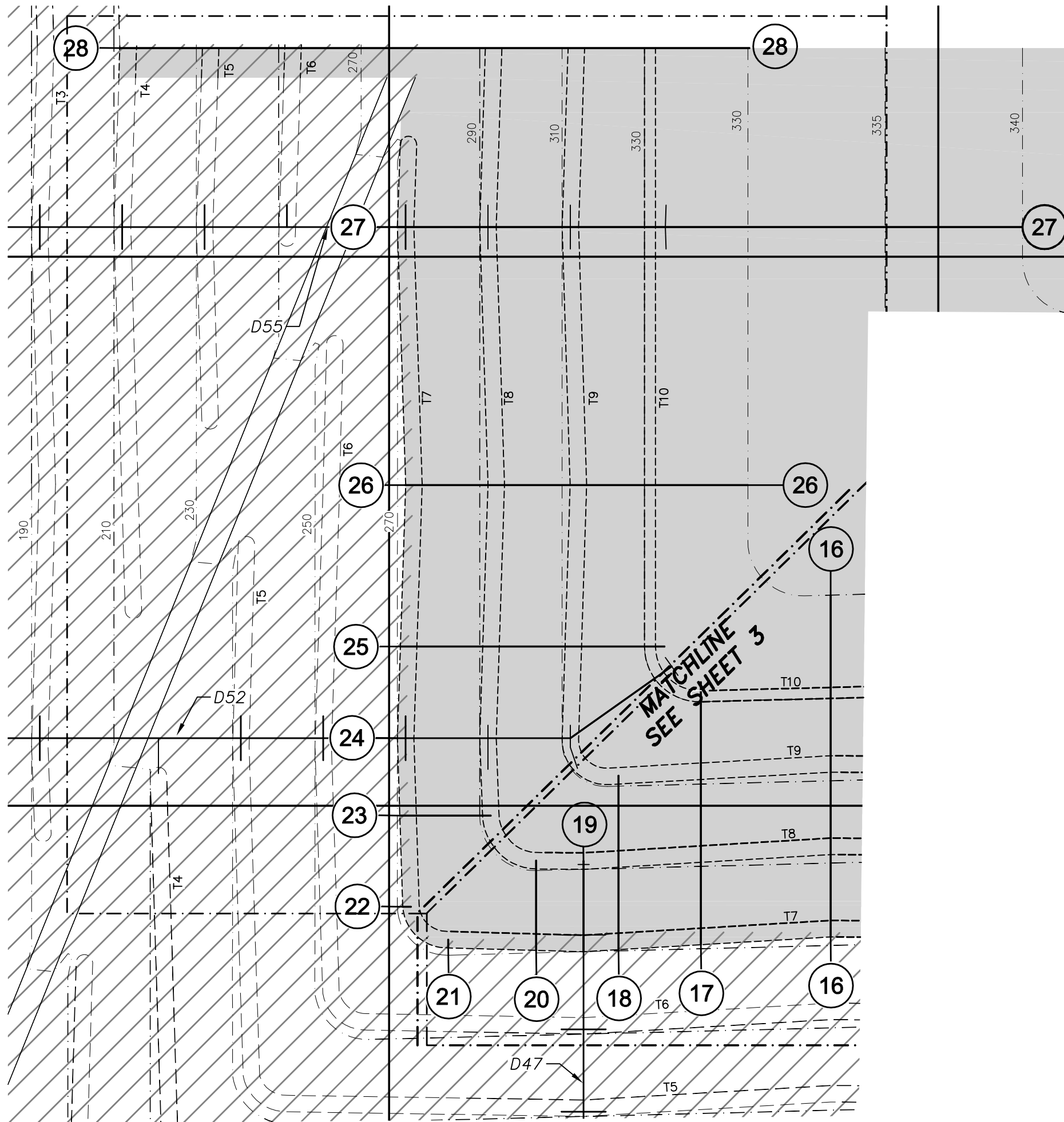
EASTERN SLOPE (Profile 6--Intermediate Point Between Downcomers D-33 and D-27)							
DESCRIPTION	LOCATION STATION	INITIAL COVER			FINAL COVER		
		DESIGN	AS-BUILT	DATE	DESIGN	AS-BUILT	DATE
TERRACE No. 7 TOP	82+35 N 121+31.9 E	XX	XX	XX	271.05	266.48*	8-21-17
TERRACE No. 7 BOTTOM	82+35 N 121+24.4 E	XX	XX	XX	268.55	264.50*	8-21-17
TERRACE No. 8 TOP	82+35 N 120+57.5 E	287.69	287.62	6-27-16	290.85	288.21*	8-21-17
TERRACE No. 8 BOTTOM	82+35 N 120+50 E	285.19	285.24	6-27-16	288.35	285.75*	8-21-17
TERRACE No. 9 TOP	82+35 N 119+83.4 E	307.39	307.35	6-27-16	310.55*	308.62*	11-4-16*
TERRACE No. 9 BOTTOM	82+35 N 119+75.9 E	304.89	304.99	6-27-16	308.05*	306.33*	11-4-16*
TOP BERM (T10)	82+35 N 119+10.05 E	326.70	326.77	11-4-16	330.00	324.48*	8-21-17
TOP BERM (T10)	82+35 N 119+00.05 E	326.70	326.80	6-27-16	330.00	324.77*	8-21-17
LIMITS OF FINAL COVER	82+35 N 118+71.05 E	325.90*	323.61*	2-8-17*	328.05	323.40*	8-21-17





EASTERN SLOPE (Profile 7--Low Point at Downcomer D-33)							
DESCRIPTION	LOCATION STATION	INITIAL COVER			FINAL COVER		
		DESIGN	AS-BUILT	DATE	DESIGN	AS-BUILT	DATE
TERRACE No. 7 TOP	81+37.7 N 121+24.05 E	XX	XX	XX	270.00*	267.71*	11-4-16*
TERRACE No. 7 BOTTOM	81+39.5 N 121+16.75 E	XX	XX	XX	267.50	262.98*	8-21-17
TERRACE No. 8 TOP	81+55.8 N 120+51.15 E	286.84*	286.71*	6-27-16*	290.00	290.19	11-4-16
TERRACE No. 8 BOTTOM	81+57.6 N 120+43.85 E	284.34	284.44	6-27-16	287.50	287.43	11-4-16
TERRACE No. 9 TOP	81+73.95 N 119+78.1 E	306.84	306.81	6-27-16	310.00*	308.84*	11-4-16*
TERRACE No. 9 BOTTOM	81+75.7 N 119+70.8 E	304.34	304.35	6-27-16	307.50*	305.86*	11-4-16*
TOP BERM (T10)	81+93.15 N 119+00.7 E	326.70	326.60	6-27-16	330.00	323.87*	8-21-17
TOP BERM (T10)	81+95.6 N 118+90.8 E	326.70*	325.91*	6-24-16*	330.00	324.42*	8-21-17
GRADE BREAK	81+97.85 N 118+81.85 E	323.70*	322.21*	2-8-17*	327.00	322.01*	8-21-17
LIMITS OF FINAL COVER	82+03.55 N 118+62.1 E	325.55*	323.32*	2-8-17*	327.70	323.18*	8-21-17

EASTERN SLOPE (Profile 8–High Point Between Downcomers D–33 and D–38)							
DESCRIPTION	LOCATION STATION	INITIAL COVER			FINAL COVER		
		DESIGN	AS–BUILT	DATE	DESIGN	AS–BUILT	DATE
TERRACE No. 7 TOP	79+75.55 N 120+41.8 E	XX	XX	XX	271.90	267.06*	8–21–17
TERRACE No. 7 BOTTOM	79+81.2 N 120+36.85 E	XX	XX	XX	269.40	265.62*	8–21–17
TERRACE No. 8 TOP	80+35.95 N 119+88.9 E	288.34	288.25	6–27–16	291.50*	289.60*	11–4–16*
TERRACE No. 8 BOTTOM	80+41.6 N 119+83.95 E	285.84	285.93	6–27–16	289.00*	287.73*	11–4–16*
TERRACE No. 9 TOP	80+97.4 N 119+35.15 E	307.84	307.84	6–27–16	311.00*	309.05*	11–4–16*
TERRACE No. 9 BOTTOM	81+03.05 N 119+30.2 E	305.34	305.25	6–27–16	308.50	303.30*	8–21–17
TOP BERM (T10)	81+62.3 N 118+78.3 E	326.70	326.60	6–27–16	330.00	324.20*	8–21–17
TOP BERM (T10)	81+69.8 N 118+71.65 E	326.70*	326.55*	11–4–16*	330.00	324.59*	8–21–17
GRADE BREAK	81+75.9 N 118+66.3 E	324.00	322.02*	2–8–17*	327.30	322.31*	8–21–17
GRADE BREAK	81+91.65 N 118+52.6 E	325.70*	323.43*	2–8–17*	327.85	323.25*	8–21–17
GRADE BREAK	82+46.15 N 118+04.85 E	327.85*	327.47*	2–8–17*	330.00	326.92*	8–21–17







S-35	STRUCTURE NUMBER
71	TERRACE NUMBER
D33	DOWNCOMER PIPE NUMBER
310	CONTOUR ELEVATION
NDA	NO DATA AVAILABLE
*	SEE NOTE 6 ON SHEET 1 OF 4
XX	SEE NOTE 7 ON SHEET 1 OF 4
	DOWNCOMER PIPE
	SLOPE PROFILE NUMBER
	LIMITS OF SIDE SLOPE CLOSURE
	CLOSED SIDE SLOPE UNIT

