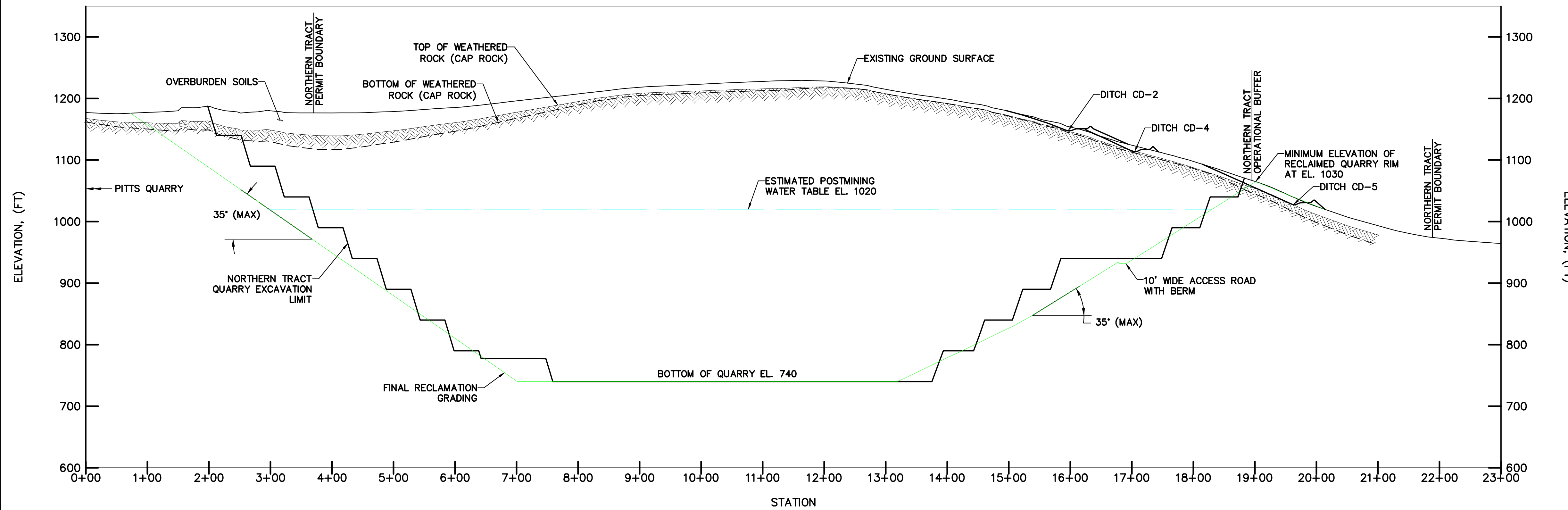
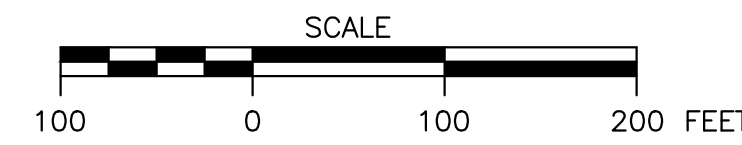
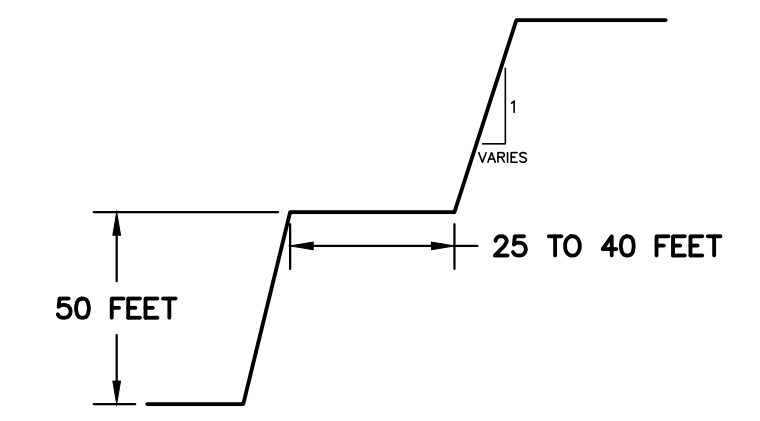


RECLAMATION SECTION A-A



RECLAMATION SECTION B-B



TYPICAL BENCH/HIGH WALL LAYOUT

QUARRY OPERATING LEVELS	
LEVEL	FLOOR ELEVATION (FEET)
3	1190
4	1140
5	1090
6	1040
7	990
8	940
9	890
10	840
11	790
12	740

NOTES:

1. BENCH WIDTHS SHOWN REPRESENT THE APPARENT WIDTH WHICH IS BASED ON A VARIABLE INTERSECTION ANGLE BETWEEN THE SECTION LINE AND THE QUARRY FACE.
2. QUARRY RECLAMATION WILL BE ACHIEVED (AND BONDED) BY ELIMINATING HIGH WALLS USING A COMBINATION OF PARTIAL BACKFILL AND BLASTING (35 DEGREES OR FLATTER) AS SHOWN, CAPPING THE AREAS WITH OVERBURDEN SOILS, AND VEGETATING THE AREAS WITH THE APPROVED PERMANENT SEED MIX (SEE EXHIBIT 18). THE QUARRY WILL BE ALLOWED TO NATURALLY FILL WITH WATER, AS AN UNMANAGED WATER IMPOUNDMENT, TO AN APPROXIMATE ELEVATION OF 1020.

NOTES / REVISIONS

ISSUED FOR	DATE	REV.	REVISION DESCRIPTION	MADE BY	CHKD BY	DATE
		1				
		2				
		3				
		4				

SEAL:

701 RUDI ROAD, FLOOR 2
PITTSBURGH, PENNSYLVANIA 15235-4559
(412) 856-9440 FAX (412) 856-9535

D'APPOLONIA

PROJECT NUMBER: 152596A
FILE NAME: Exhibit 10.5-Reclamation Cross Section-R0.dwg

SGI

DRAWN BY: AJM
CHECKED BY: RMS/MDW
DATE: 10/25/2016
DATE: 12/22/2017

SPECIALTY GRANULES LLC
CHARMIAN - NORTHERN TRACT QUARRY

EXHIBIT 10.5
RECLAMATION CROSS-SECTIONS

SCALE: AS SHOWN
DRAWING NO. 12
REV 0