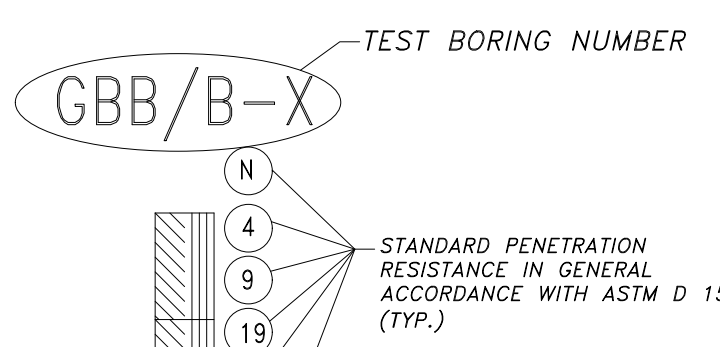


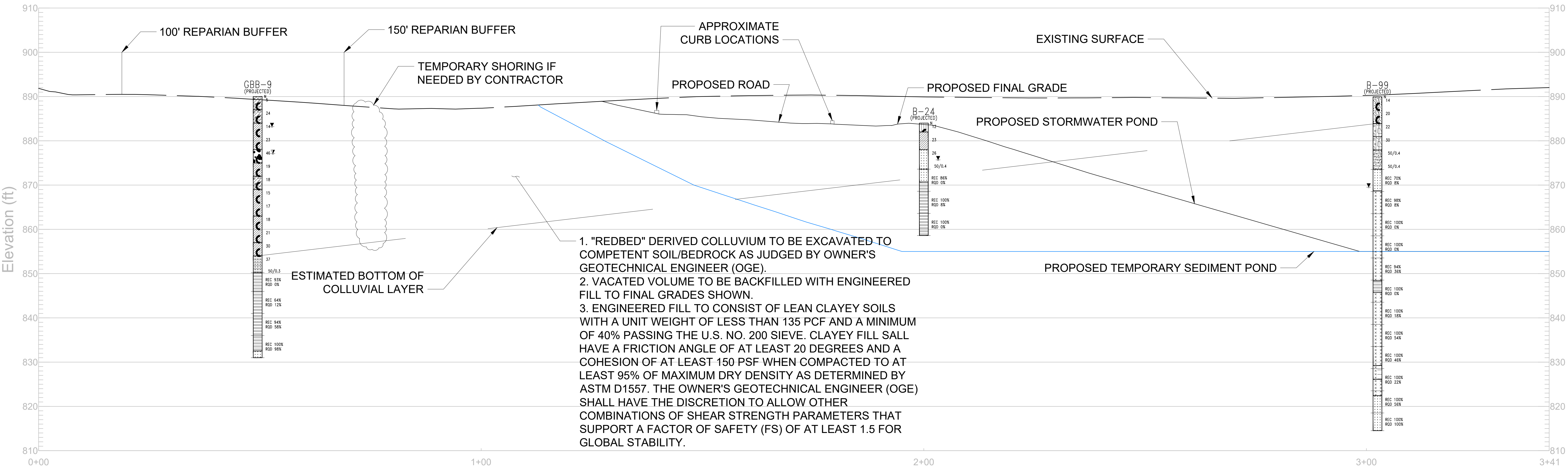


GENERALIZED SUBSURFACE PROFILE LEGEND

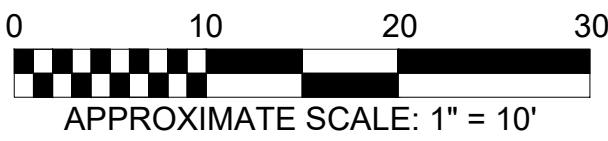


BOWARD BEITKO

180 BILMAR DRIVE, SUITE IV PITTSBURGH, PA 15205 PHONE: 412-922-4440
CLIENT: PHILLIPS & ASSOCIATES, INC.
GBBE PROJECT NUMBER: 16123A



UPDATED POND CROSS-SECTION P1-P1



LEGEND

LITHOLOGIC SYMBOLS
(UNIFIED SOIL CLASSIFICATION SYSTEM)

ASPHALT	HIGH PLASTICITY CLAY
TOPSOIL	WELL-GRADED GRAVEL
SILTY GRAVEL	POORLY-GRADED SAND
POORLY GRADED GRAVEL	ORGANIC SILT
FILL	VOID
LOW PLASTICITY CLAY	CLAYSTONE
CLAYEY SILT TO SILTY CLAY	COAL
CLAYEY GRAVEL	SILTSTONE
SILTY SAND	SHALE
SILT	SANDSTONE
CLAYEY SAND	LIMESTONE

WATER LEVEL AT END OF DRILLING

WATER LEVEL DURING DRILLING

WATER LEVEL AFTER 24 HR

OVERLAIN ON ANY SOIL SYMBOL DENOTES COLLUVIAL ORIGIN

SAMPLE GENERALIZED SOIL/ROCK PROFILE

TEST BORING NUMBER

GBB/B-X

STANDARD PENETRATION RESISTANCE IN GENERAL ACCORDANCE WITH ASTM D 1586 (TYP.)

REC XXX - PERCENTAGE OF ROCK CORE RECOVERY RELATIVE TO CORE RUN LENGTH

ROD XXX - ROCK QUALITY DESIGNATION EQUALS SUMMATION OF ROCK CORE PIECES EQUAL TO OR LONGER THAN 4 INCHES DIVIDED BY SPECIFIC CORE LENGTH EXPRESSED AS A PERCENTAGE

BEDROCK IN THIS ZONE COULD CONTAIN PYRITE OR OTHER POTENTIALLY EXPANSIVE MINERALS (PEMs)

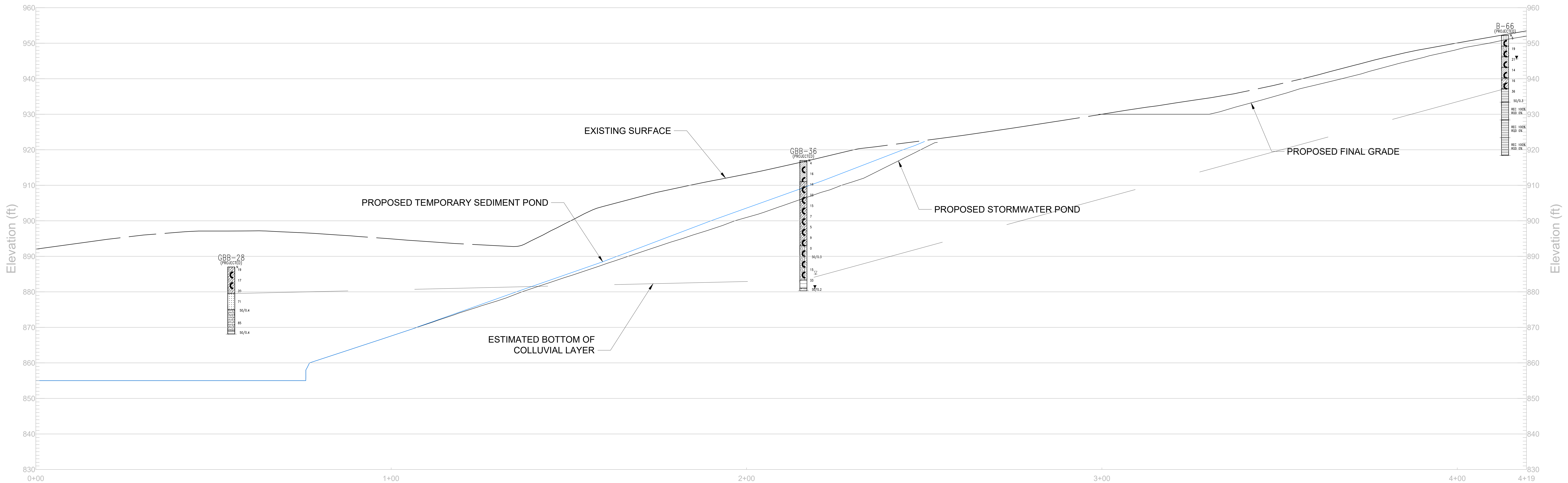
GRAPHIC WITH THICK, BOLD LINE(S) REPRESENTS CARBONACEOUS SOIL/ROCK

GRAPHIC WITH DUAL SYMBOL REPRESENTS SOIL/ROCK THAT IS INTERBEDDED

CROSS-SECTION NOTE:

SUBSURFACE CONDITIONS DEPICTED ON THIS DRAWING ARE REPRESENTATIVE ONLY AT BORING LOCATIONS. CONDITIONS BETWEEN BORINGS ARE BASED SOLELY ON STRAIGHT-LINE INTERPOLATION BETWEEN THE BORINGS. ACTUAL SUBSURFACE CONDITIONS WILL VARY FROM THOSE HEREON SHOWN.

GARVIN BOWARD BEITKO	SCALE: AS NOTED	GARVIN BOWARD BEITKO ENGINEERING, INC.	
	DATE: 05/07/2026	180 BILMAR DRIVE, SUITE IV PITTSBURGH, PA 15205 PHONE: 412-922-4440	
	REVISED:	MAY 2026 DEP SUBMITTAL	CLIENT:
	DRAWN BY: AMB	NEW QUAKER VALLEY HIGH SCHOOL CAMPUS	PHILLIPS & ASSOCIATES, INC.
	APPROVED BY: DAB	DWG NAME: UPDATED POND CROSS-SECTION P1-P1	GBBE PROJECT NUMBER: 16123A



LEGEND

LITHOLOGIC SYMBOLS
(UNIFIED SOIL CLASSIFICATION SYSTEM)

■ ASPHALT	▨ HIGH PLASTICITY CLAY
▨ TOPSOIL	▨ WELL-GRADED GRAVEL
▨ SILTY GRAVEL	▨ POORLY-GRADED SAND
▨ POORLY GRADED GRAVEL	▨ ORGANIC SILT
▨ FILL	▨ VOID
▨ LOW PLASTICITY CLAY	▨ CLAYSTONE
▨ CLAYEY SILT TO SILTY CLAY	▨ COAL
▨ CLAYEY GRAVEL	▨ SILTSTONE
▨ SILTY SAND	▨ SHALE
▨ SILT	▨ SANDSTONE
▨ CLAYEY SAND	▨ LIMESTONE

▼ WATER LEVEL AT END OF DRILLING

▽ WATER LEVEL DURING DRILLING

▼ WATER LEVEL AFTER 24 HR

Ⓒ OVERLAIN ON ANY SOIL SYMBOL DENOTES COLLUVIAL ORIGIN

SAMPLE GENERALIZED SOIL/ROCK PROFILE

TEST BORING NUMBER: GBB/B-X

STANDARD PENETRATION RESISTANCE IN GENERAL ACCORDANCE WITH ASTM D 1586 (TYP.)

REC. XXX - PERCENTAGE OF ROCK CORE RECOVERY RELATIVE TO CORE RUN LENGTH

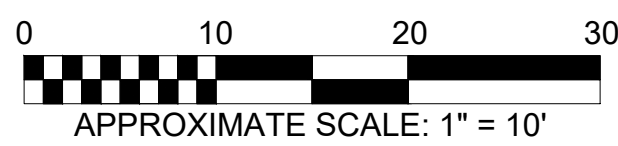
ROQ. XXX - ROCK QUALITY DESIGNATION EQUALS SUMMATION OF ROCK CORE PRICES EQUAL TO OR LONGER THAN 4 INCHES DIVIDED BY SPECIFIC CORE LENGTH EXPRESSED AS A PERCENTAGE

BEDROCK IN THIS ZONE COULD CONTAIN PYRITE OR OTHER POTENTIALLY EXPANSIVE MINERALS (PEM+)

GRAPHIC WITH THICK, BOLD LINE(S) REPRESENTS CARBONACEOUS SOIL/ROCK

GRAPHIC WITH DUAL SYMBOL REPRESENTS SOIL/ROCK THAT IS INTERBEDDED

UPDATED POND CROSS-SECTION P2-P2



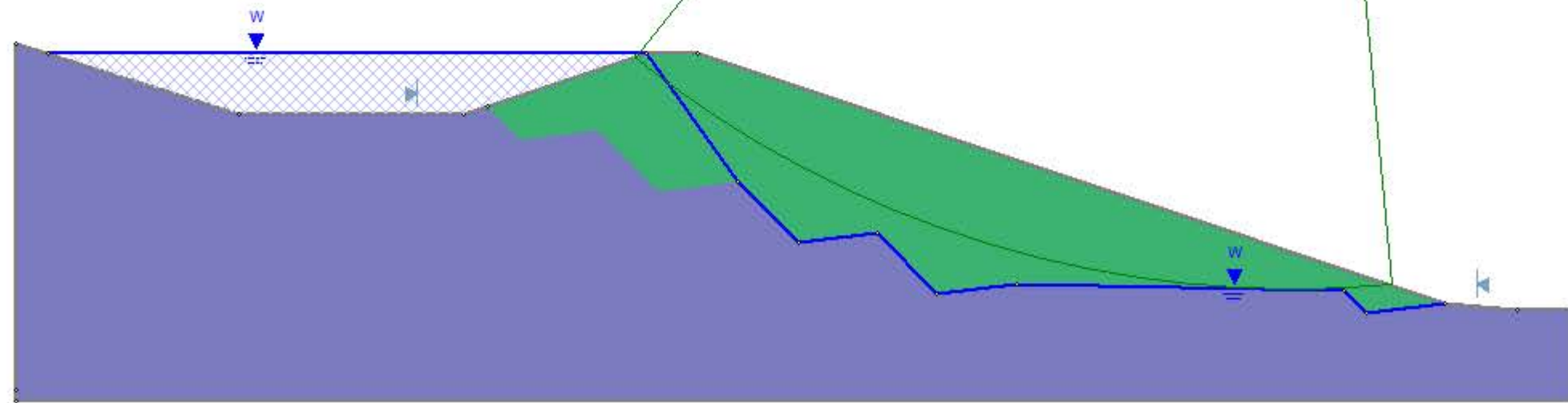
CROSS-SECTION NOTE:
SUBSURFACE CONDITIONS DEPICTED ON THIS DRAWING ARE REPRESENTATIVE ONLY AT BORING LOCATIONS. CONDITIONS BETWEEN BORINGS ARE BASED SOLELY ON STRAIGHT-LINE INTERPOLATION BETWEEN THE BORINGS. ACTUAL SUBSURFACE CONDITIONS WILL VARY FROM THOSE HEREON SHOWN.

GARVIN BOWARD BEITKO	SCALE: AS NOTED	GARVIN BOWARD BEITKO ENGINEERING, INC.		180 BILMAR DRIVE, SUITE IV PITTSBURGH, PA 15205 PHONE: 412-923-4440
	DATE: 05/07/2026	BUILT ON REPUTATION		
	REVISED:	MAY 2026 DEP SUBMITTAL		CLIENT:
	DRAWN BY: AMB	NEW QUAKER VALLEY HIGH SCHOOL CAMPUS		PHILLIPS & ASSOCIATES, INC.
	APPROVED BY: DAB	DWG NAME:	GBBE PROJECT NUMBER:	
		UPDATED POND CROSS-SECTION P2-P2	16123A	

16123A NEW QUAKER VALLEY HIGH SCHOOL
REVISED SWMF-2 LOCATION
CROSS-SECTION PR-4
SLOPE STABILITY ANALYSIS
WATER TO TOP OF EMBANKMENT

Material Name	Color	Unit Weight (lbs/ft ³)	Saturated U. W. (lbs/ft ³)	Strength Type	Cohesion (psf)	Phi (°)	Water Surface	Hu Type
Bedrock		140	140	Mohr-Coulomb	200	36	Water Table	Automaticall Calculated
Eng Fil 2		135	135	Mohr-Coulomb	150	20	Water Table	Automaticall Calculated

Method Name	Min FS
Bishop simplified	1.5



16123A NEW QUAKER VALLEY HIGH SCHOOL
REVISED SWMF-2 LOCATION
CROSS-SECTION PR-4
SLOPE STABILITY ANALYSIS
RAPID DRAWDOWN

Material Name	Color	Unit Weight (lbs/ft ³)	Saturated U.W. (lbs/ft ³)	Strength Type	Cohesion (psf)	Phi (°)	Water Surface	Hu Type	Undrained Behaviour
Bedrock	Blue	140	140	Mohr-Coulomb	200	36	Water Table	Automatically Calculated	No
Eng Fill 2	Green	135	135	Mohr-Coulomb	150	20	Water Table	Automatically Calculated	No

Method Name	Min FS
Bishop simplified	1.7

