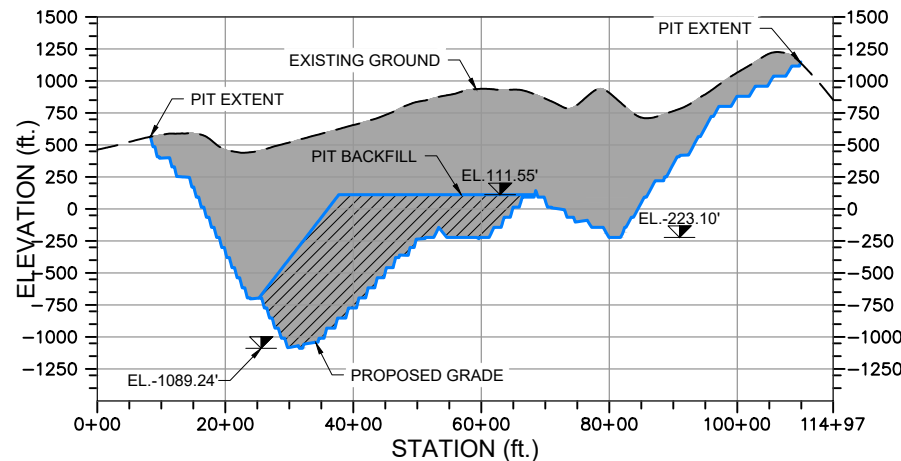
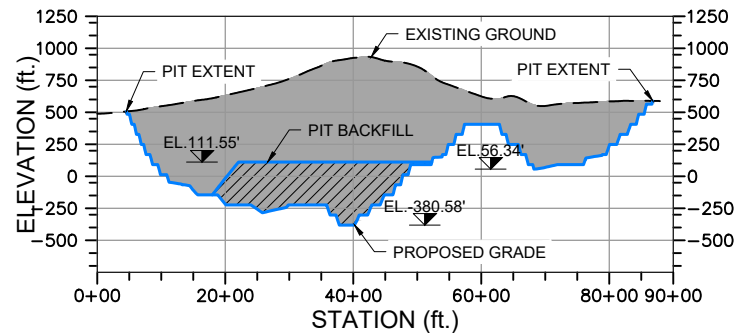
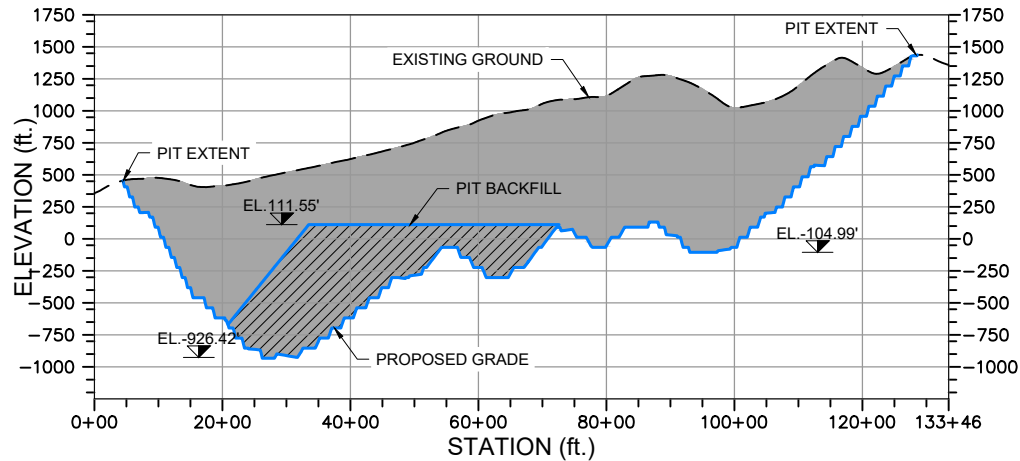
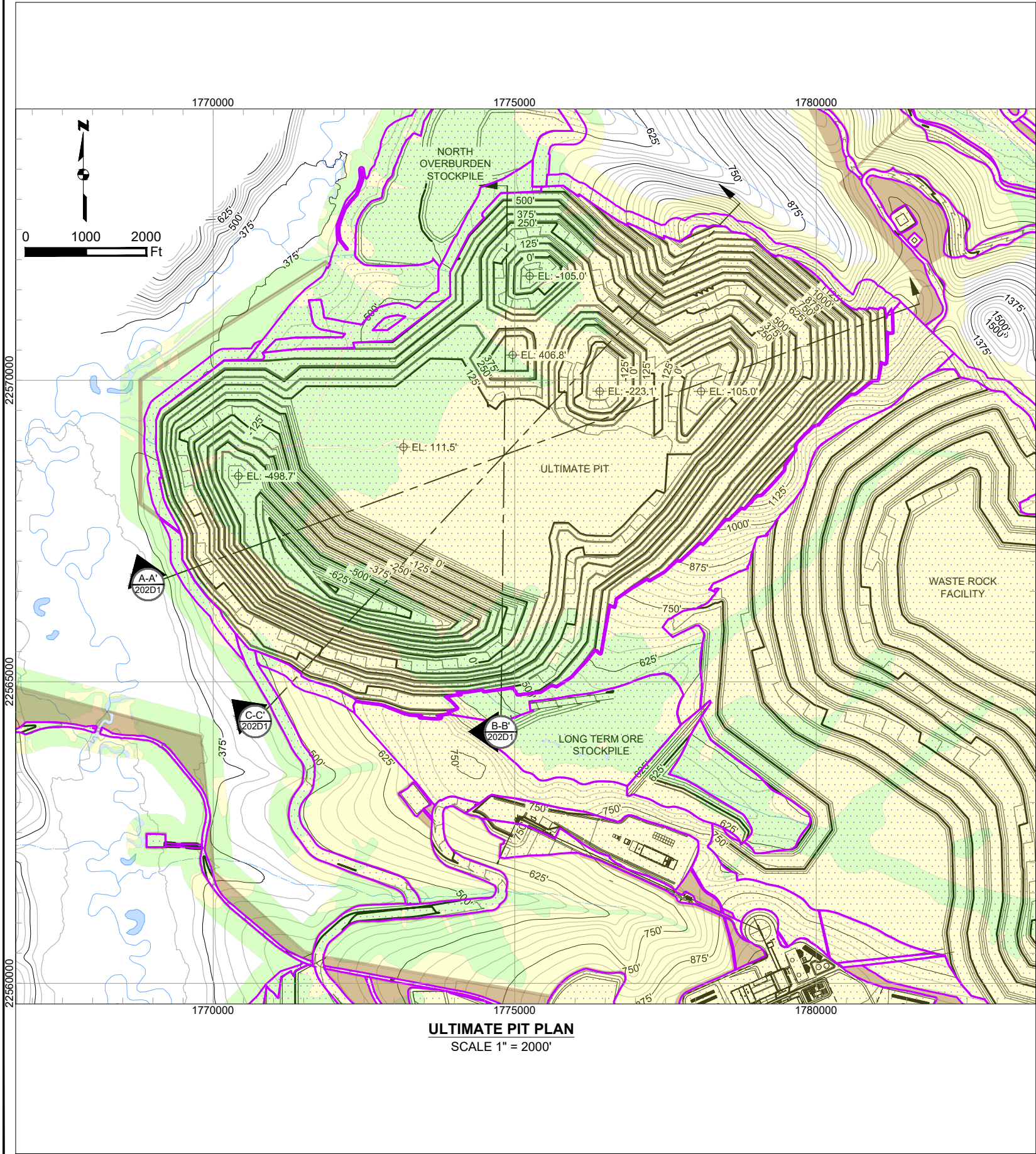




NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:

	Uplands		Existing 25' Contours		Work Area/Vegetation Clearing
	Wetlands		Existing 125' Contours		Cut/Fill Limit
	Waters of U.S.		Proposed 25' Contours		Unnamed River/Stream
			Proposed 125' Contours		Named River/Stream

SECTION VIEW LEGEND:

	Fill Area
	Cut Area
	Existing Ground
	Proposed Grade

Associated Engineering Drawings

EOP_2036SP_6ft_Project.shp (ARCADIS) JUN 2012

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

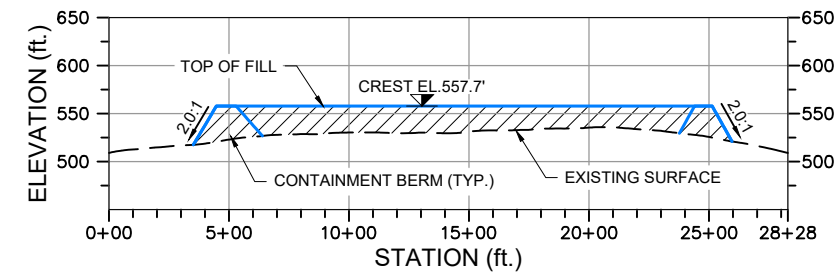
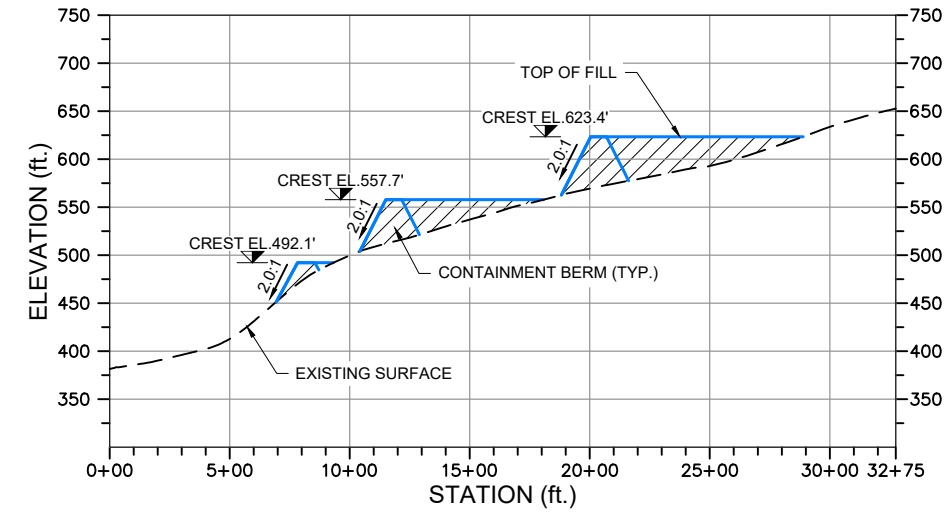
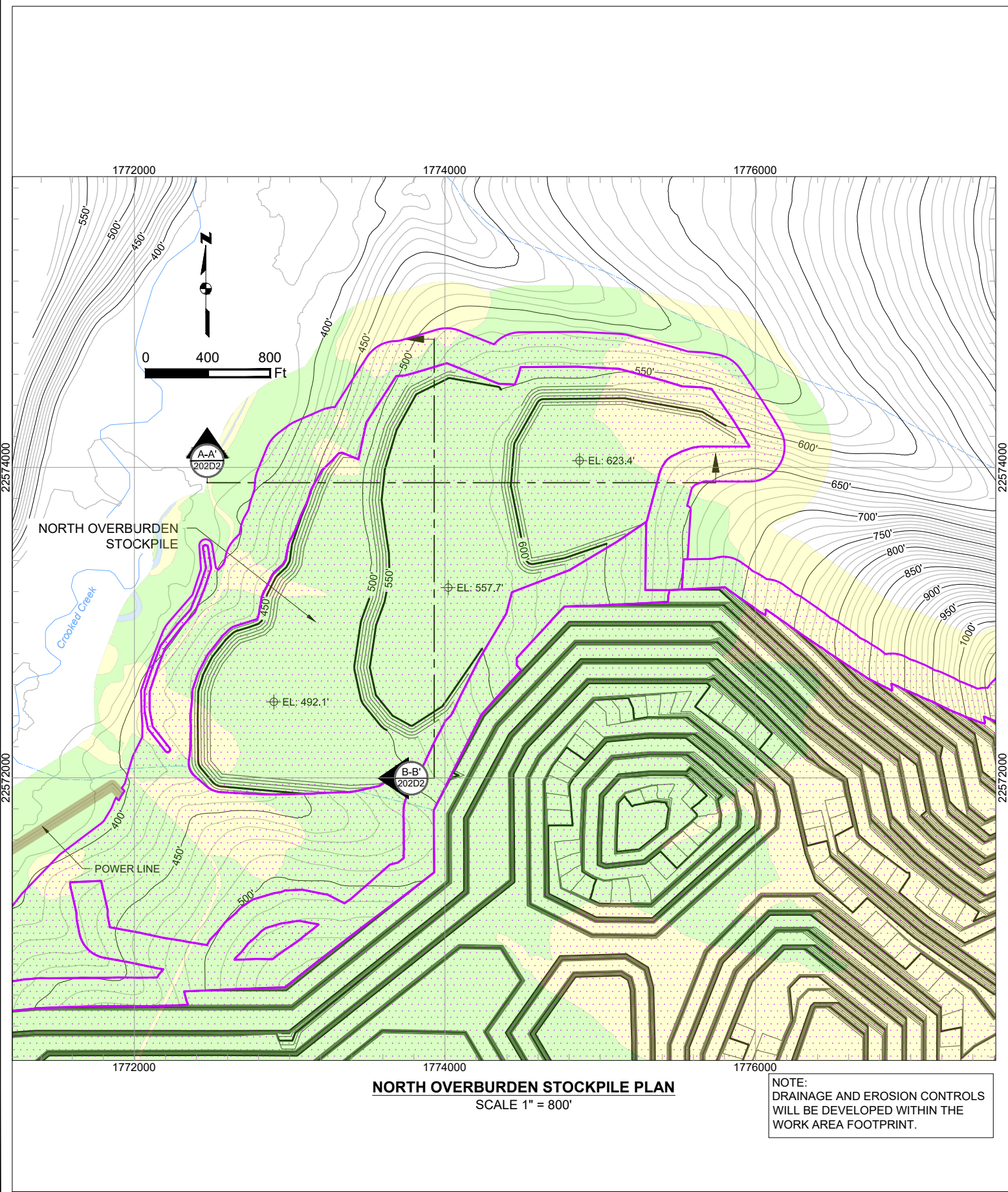
ULTIMATE PIT DETAIL

FIGURE NO.

MA-202D1

FILE NO.

POA-1995-120



NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

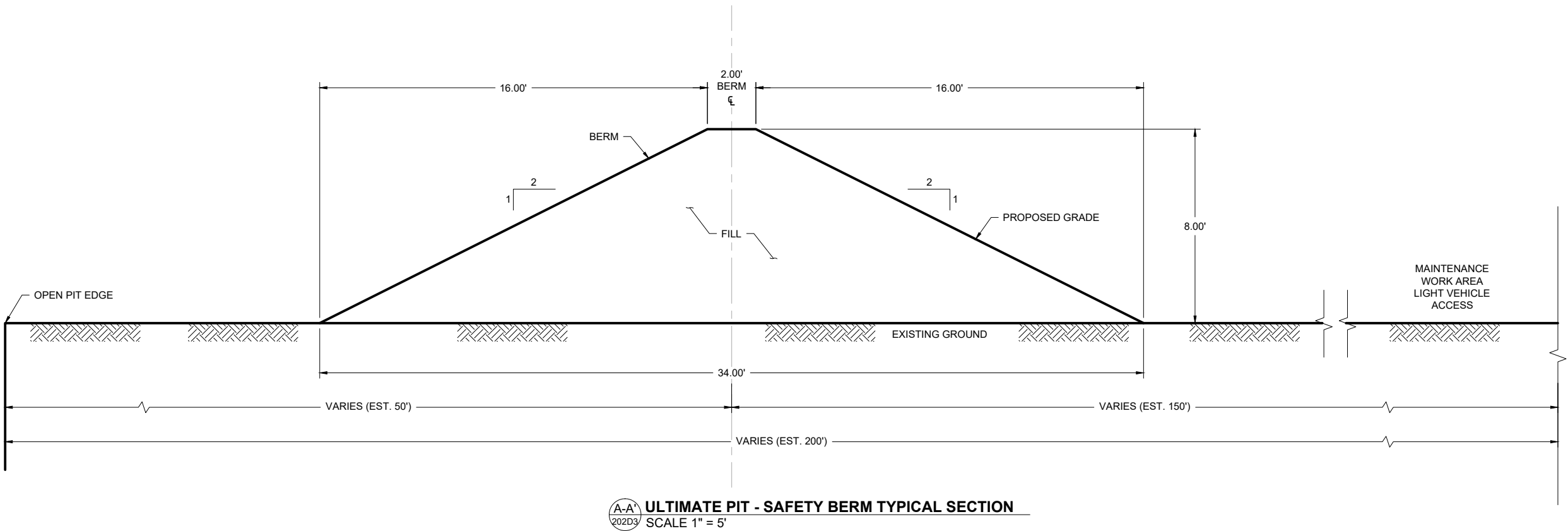
Associated Engineering Drawings			DONLIN GOLD PROJECT		DRAWING TITLE:	
NOB_STOCKPILE.dwg (BGC) JUNE 2012			APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		NORTH OVERBURDEN STOCKPILE DETAIL	
			NAD 1983 UTM Zone 4N (US Survey Feet)		FIGURE NO.	FILE NO.
			SCALE: AS SHOWN	DATE: 12/22/2017	MA-202D2	POA-1995-120

PLAN LEGEND:

- Uplands
- Wetlands
- Waters of U.S.
- Existing 10' Contours
- Existing 50' Contours
- Proposed 10' Contours
- Proposed 50' Contours
- Work Area/Vegetation Clearing
- Cut/Fill Limit
- Unnamed River/Stream
- Named River/Stream

SECTION VIEW LEGEND:

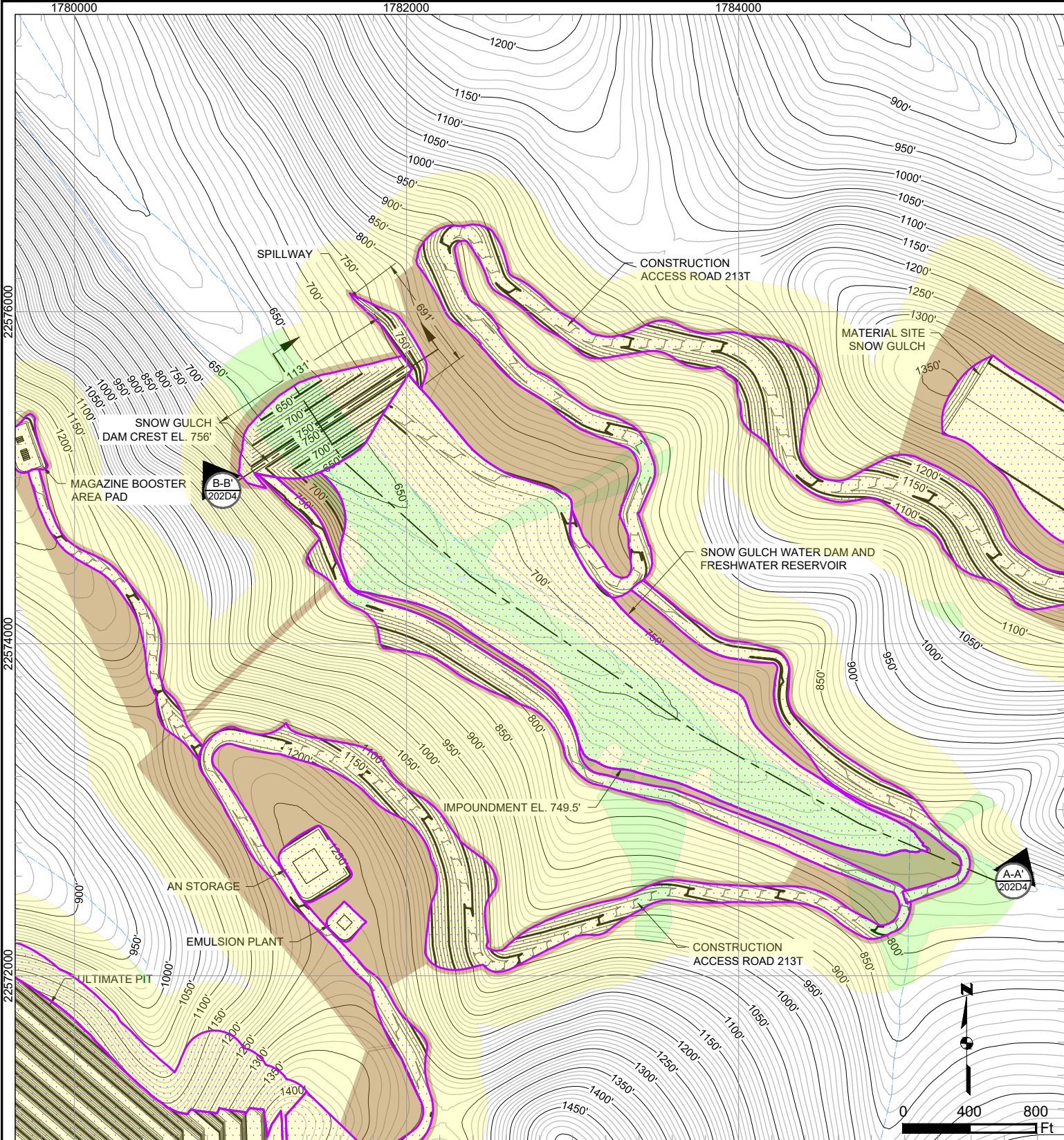
- Fill Area
- Cut Area
- Existing Ground
- Proposed Grade



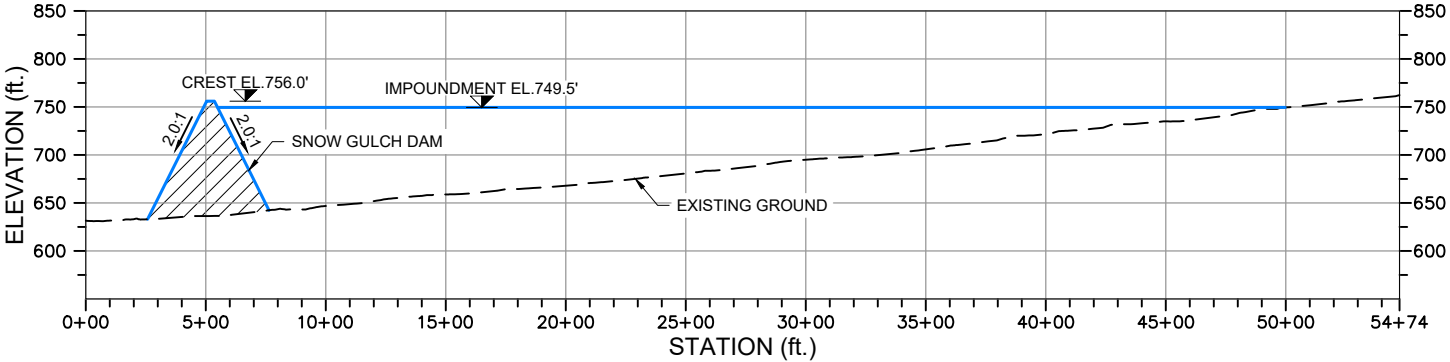
NOTES:
1. ALL EXISTING ELEVATIONS ARE IN FEET UNLESS NOTED OTHERWISE.
2. ALL PROPOSED ELEVATIONS AND DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE

NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO CHANGE PRIOR TO FINAL DESIGN.

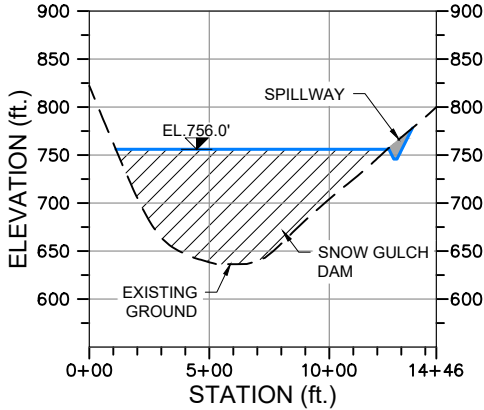
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	M01C-SC-BE_01.dwg (BAKER) OCT 2014		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		ULTIMATE PIT - SAFETY BERM DETAIL	
			NAD 1983 UTM Zone 4N (US Survey Feet)		FIGURE NO.	FILE NO.
			SCALE: AS SHOWN	DATE: 12/22/2017	MA-202D3	POA-1995-120



SNOW GULCH WATER DAM AND FRESHWATER RESERVOIR PLAN
SCALE 1" = 800'



SNOW GULCH WATER DAM AND FRESHWATER RESERVOIR SECTION A-A'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 200'



SNOW GULCH WATER DAM AND FRESHWATER RESERVOIR SECTION B-B'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 200'

NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:

	Uplands		Existing 10' Contours		Work Area/Vegetation Clearing
	Wetlands		Existing 50' Contours		Cut/Fill Limit
	Waters of U.S.		Proposed 10' Contours		Unnamed River/Stream
			Proposed 50' Contours		Named River/Stream

SECTION VIEW LEGEND:

	Fill Area		Existing Ground
	Cut Area		Proposed Grade

Associated Engineering Drawings

SNOW_GULCH_DAM.dwg (BGC) JUNE 2012

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

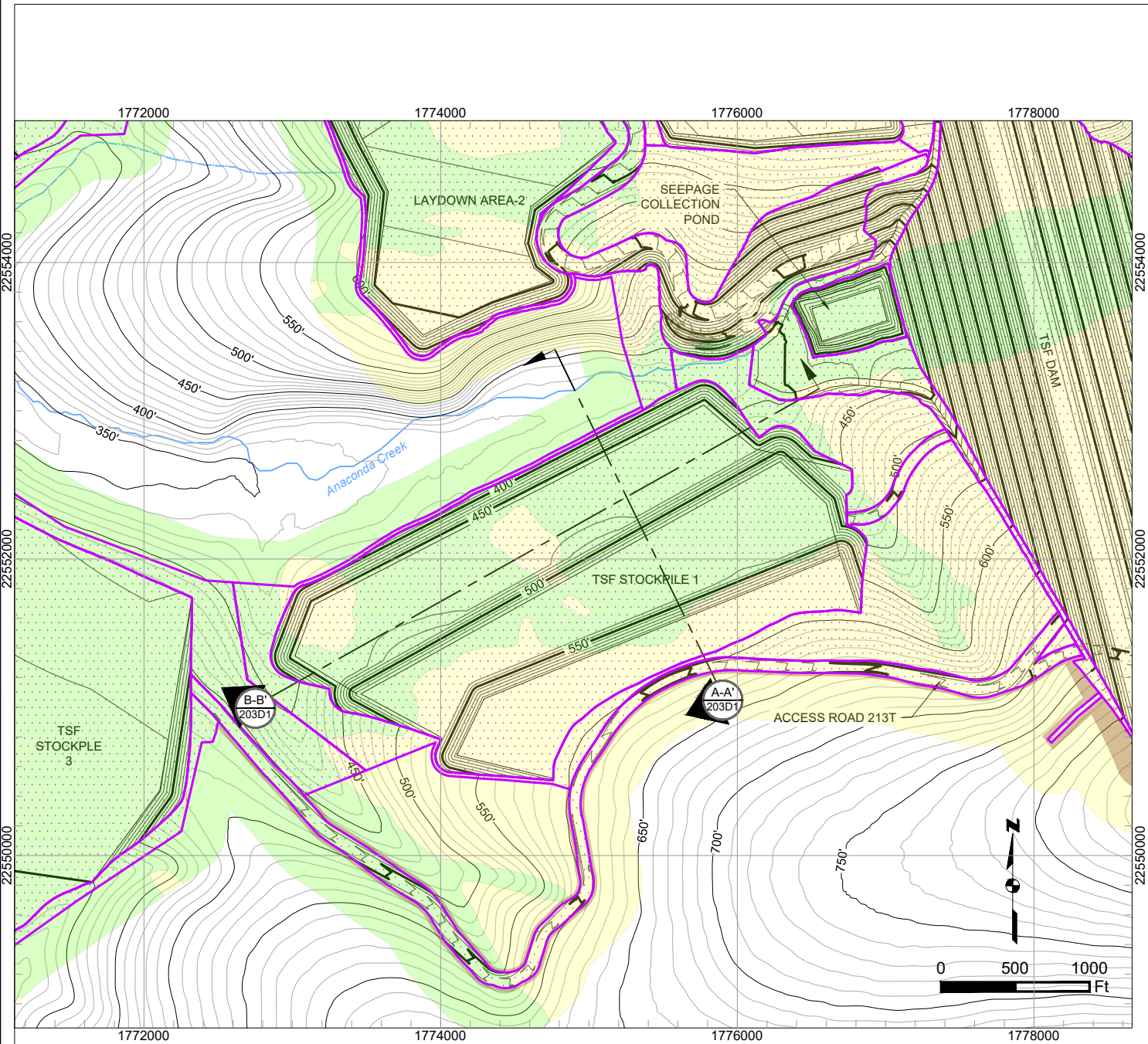
**SNOW GULCH WATER DAM AND
FRESHWATER RESERVOIR DETAIL**

FIGURE NO.

MA-202D4

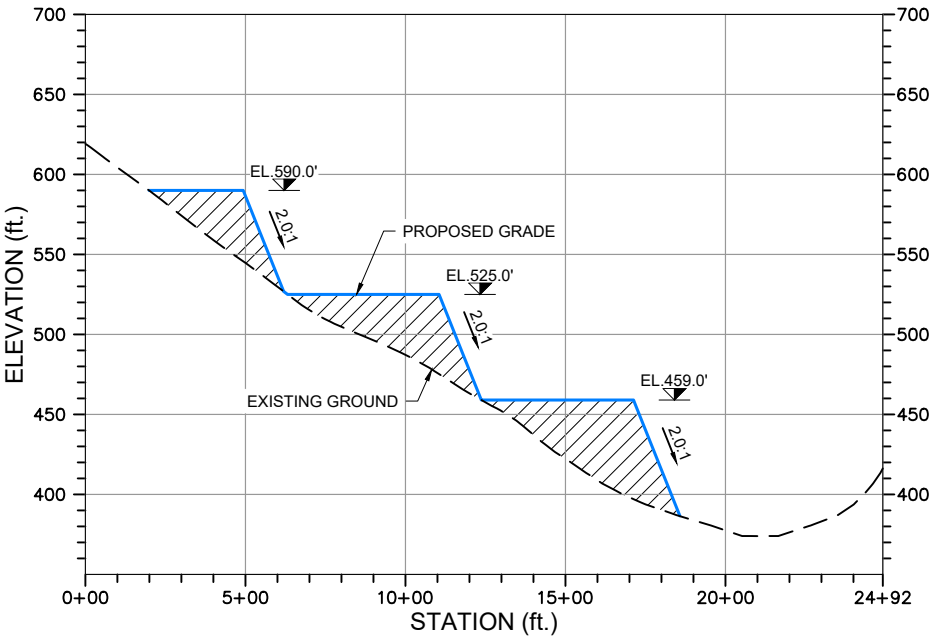
FILE NO.

POA-1995-120

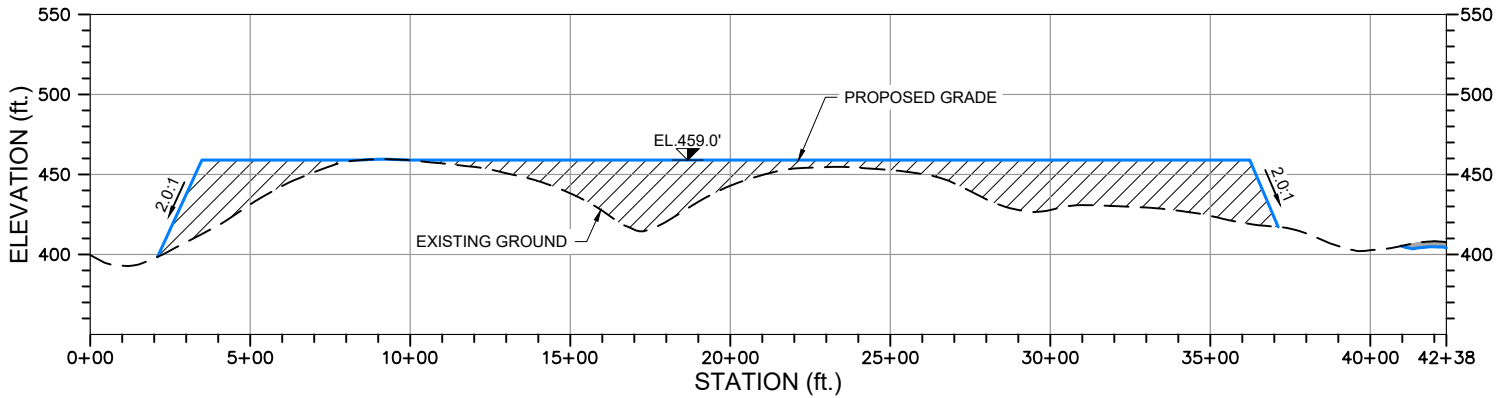


TSF STOCKPILE 1 PLAN
SCALE 1" = 1000'

NOTE:
DRAINAGE AND EROSION CONTROLS
WILL BE DEVELOPED WITHIN THE
WORK AREA FOOTPRINT.



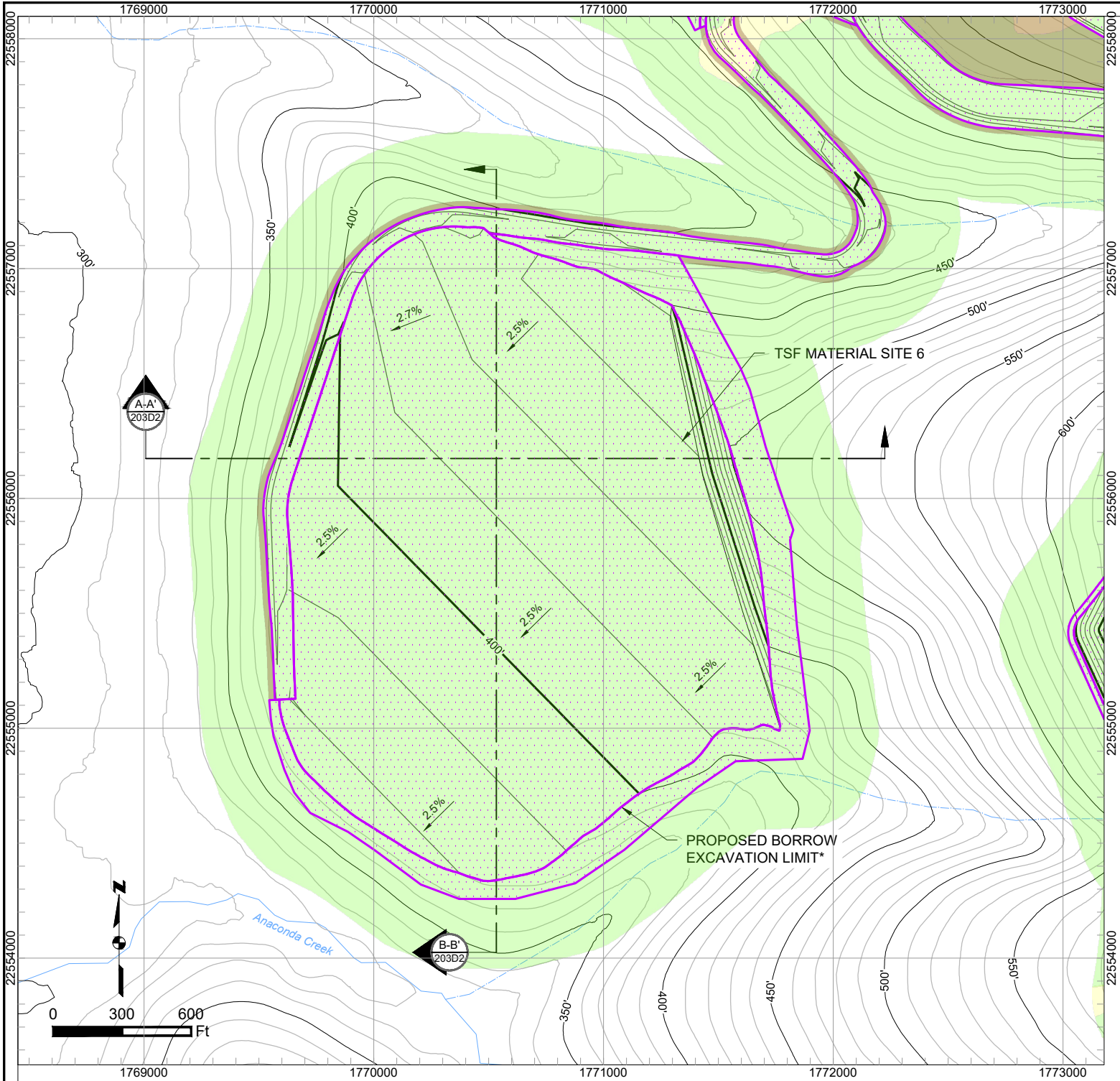
TSF STOCKPILE 1 SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



TSF STOCKPILE 1 SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

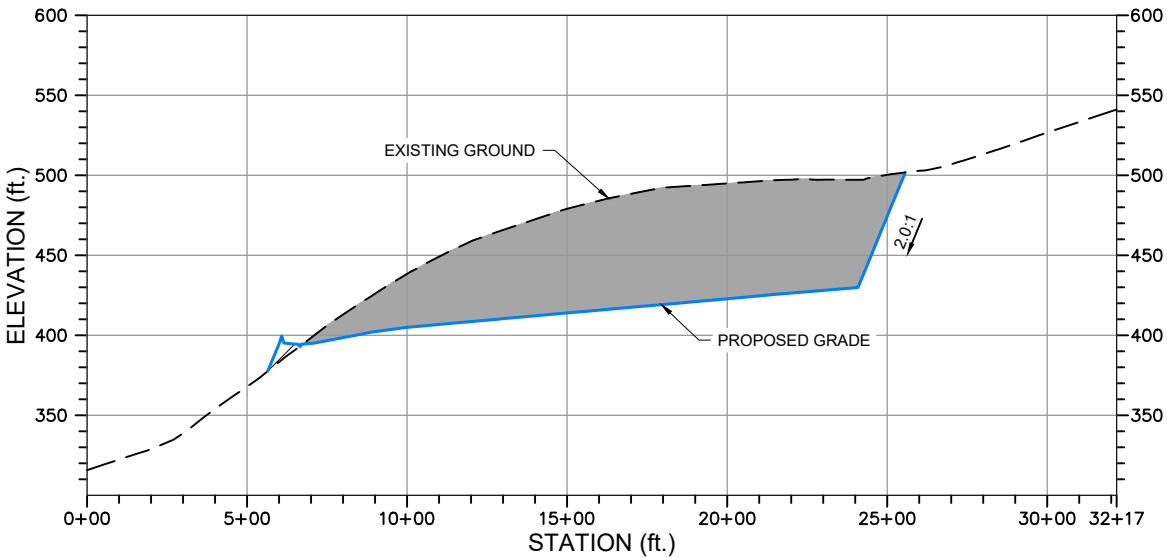
NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:				SECTION VIEW LEGEND:				Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:					
Uplands	Existing 10' Contours	Work Area/Vegetation Clearing	Fill Area	TAILINGS_STORAGE_FACILITY_STOCKPILE_1.dwg (BGC) JUNE 2012		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TSF STOCKPILE 1 DETAIL									
Wetlands	700' Existing 50' Contours	SECTION Cut/Fill Limit	Cut Area														
Waters of U.S.	Proposed 10' Contours	Unnamed River/Stream	Existing Ground														
	700' Proposed 50' Contours	Named River/Stream	Proposed Grade														
										NAD 1983 UTM Zone 4N (US Survey Feet)		FIGURE NO.		FILE NO.			
										SCALE: AS SHOWN		DATE: 12/22/2017		MA-203D1		POA-1995-120	

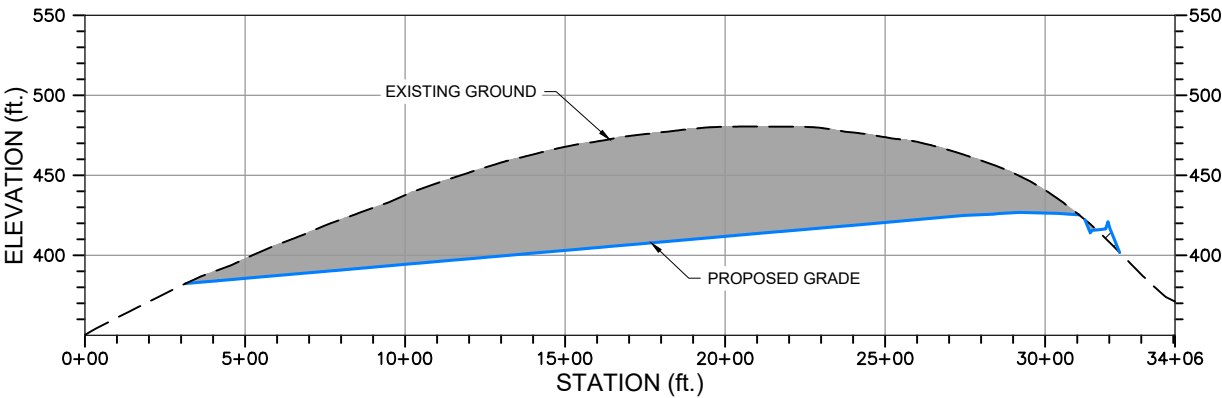


TSF MATERIAL SITE 6 PLAN
SCALE 1" = 600'

NOTE:
AREA TO BE USED AS A BORROW
SITE AND LATER PARTIALLY USED AS
AN OVERBURDEN STOCKPILE.



TSF MATERIAL SITE 6 SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



TSF MATERIAL SITE 6 SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:

	Uplands		Existing 10' Contours		Work Area/Vegetation Clearing
	Wetlands		Existing 50' Contours		Cut/Fill Limit
	Waters of U.S.		Proposed 10' Contours		Unnamed River/Stream
			Proposed 50' Contours		Named River/Stream

SECTION VIEW LEGEND:

	Fill Area
	Cut Area
	Existing Ground
	Proposed Grade

NOTE:
* BORROW LIMIT SUBJECT TO CHANGE PENDING
FURTHER GEOTECHNICAL INVESTIGATION

Associated Engineering Drawings

13_SOUTH_OVERBURDEN_TERRACE_BORROW_6.dwg
(BGC) JUN 2012

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

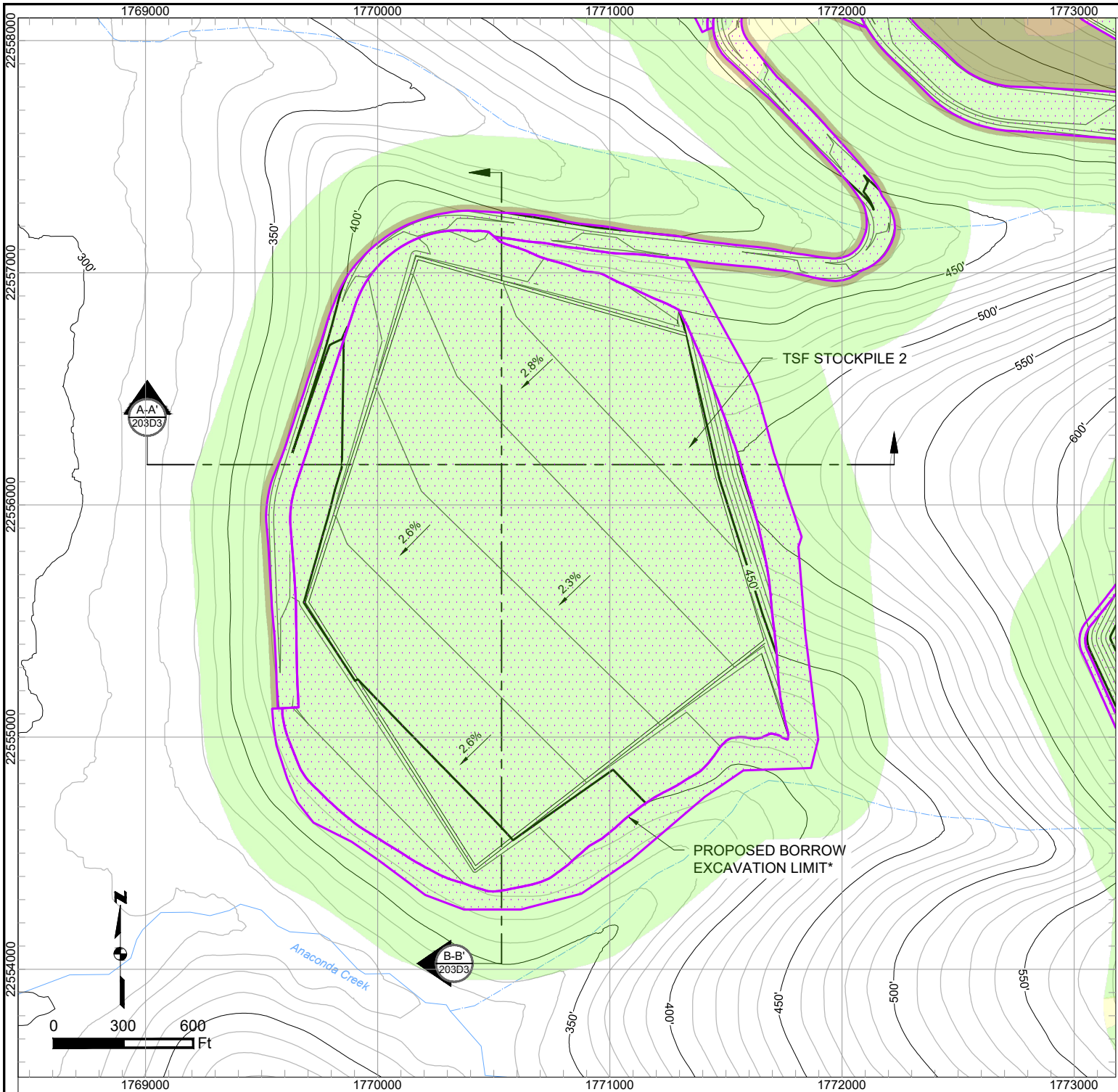
TSF MATERIAL SITE 6 DETAIL

FIGURE NO.

MA-203D2

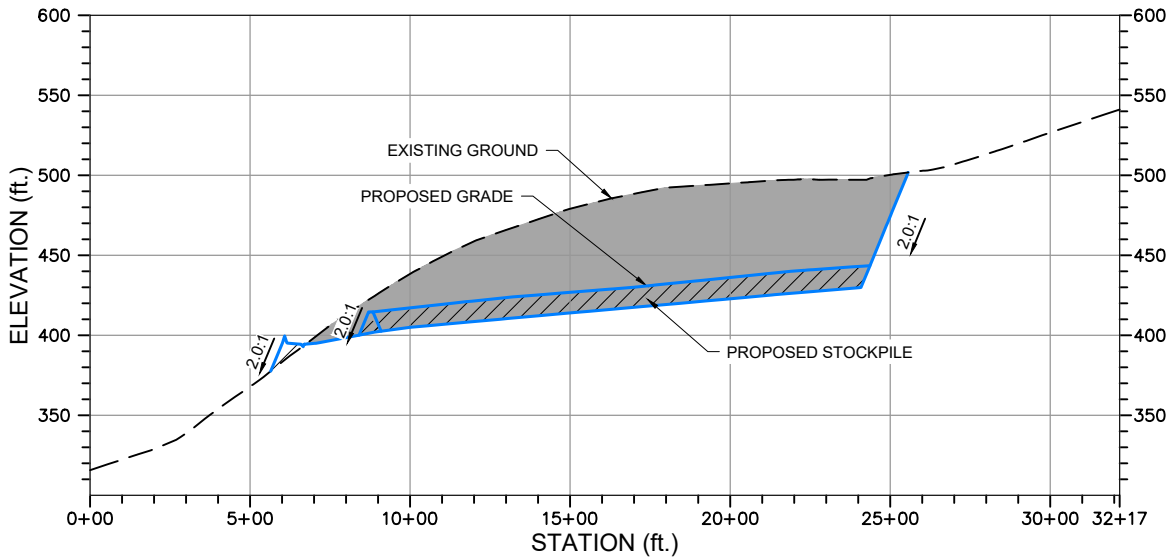
FILE NO.

POA-1995-120

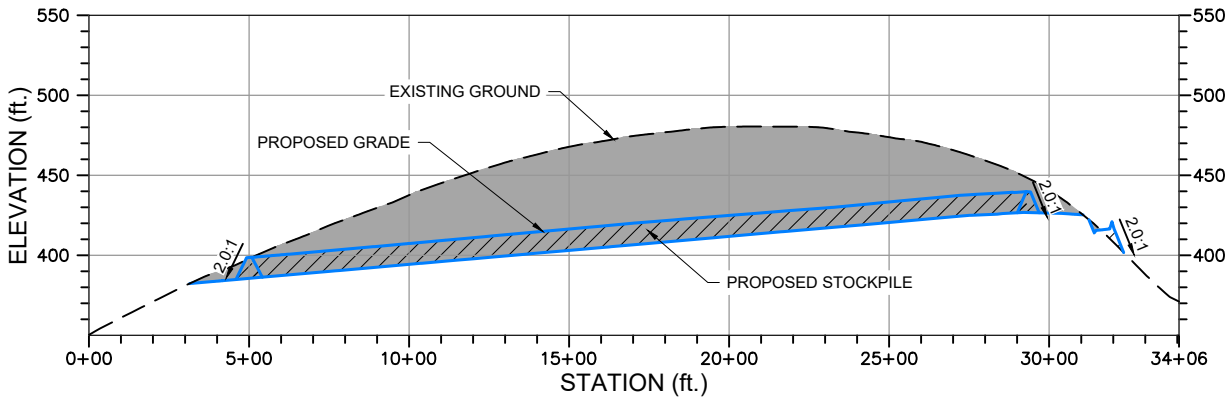


TSF STOCKPILE 2 PLAN
SCALE 1" = 600'

NOTE:
AREA TO BE USED AS A BORROW
SITE AND LATER PARTIALLY USED AS
AN OVERBURDEN STOCKPILE.



TSF STOCKPILE 2 SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



TSF STOCKPILE 2 SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:

	Uplands		Existing 10' Contours		Work Area/Vegetation Clearing
	Wetlands		Existing 50' Contours		Cut/Fill Limit
	Waters of U.S.		Proposed 10' Contours		Unnamed River/Stream
			Proposed 50' Contours		Named River/Stream

SECTION VIEW LEGEND:

	Fill Area		Existing Ground
	Cut Area		Proposed Grade

NOTE:
* BORROW LIMIT SUBJECT TO CHANGE PENDING
FURTHER GEOTECHNICAL INVESTIGATION

Associated Engineering Drawings

13_SOUTH_OVERBURDEN_TERRACE_BORROW_6.dwg
(BGC) JUN 2012

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

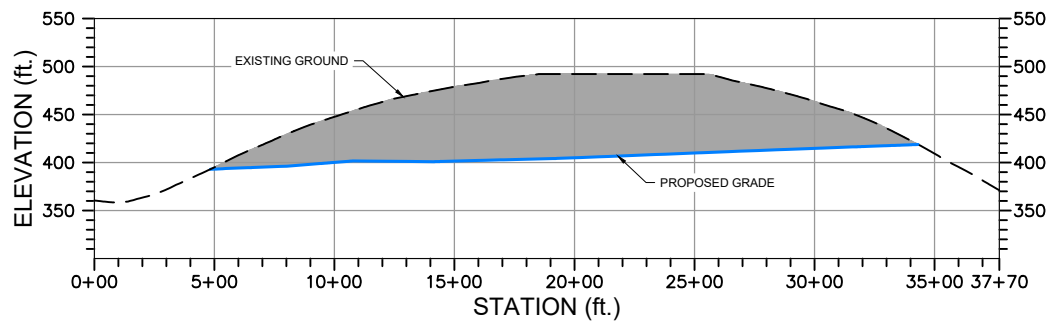
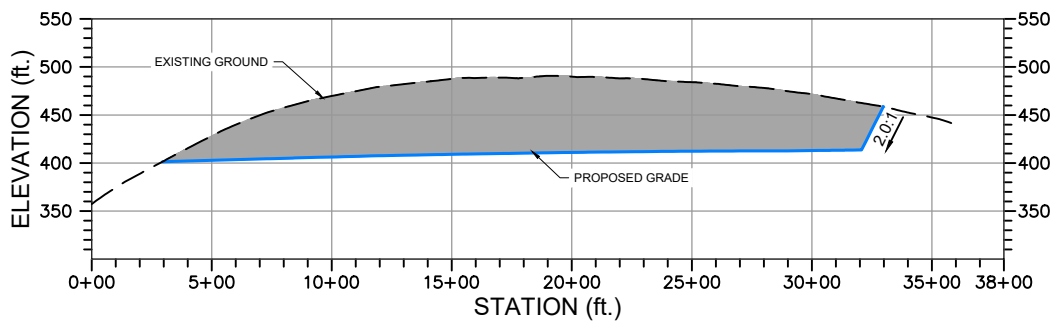
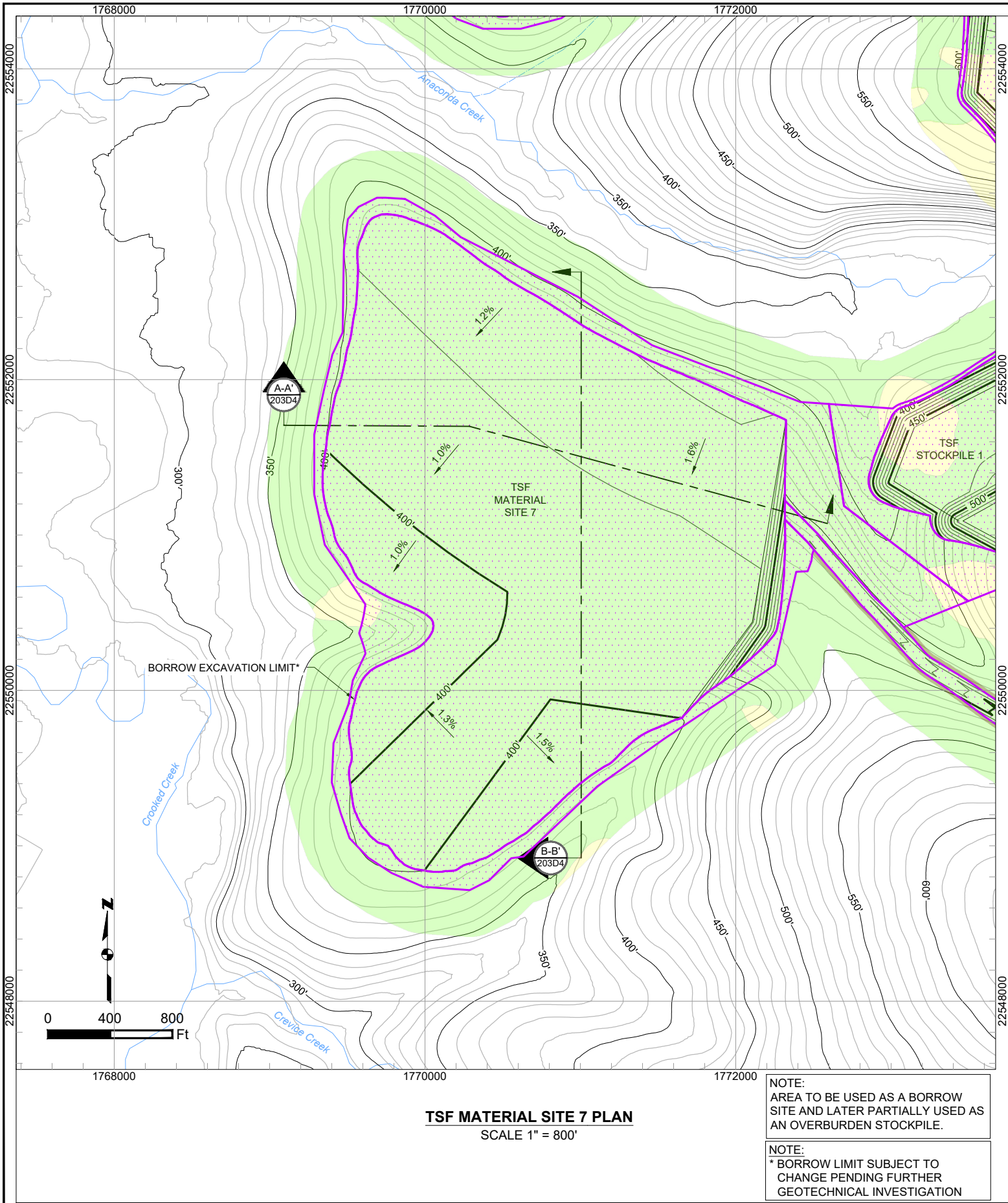
TSF STOCKPILE 2 DETAIL

FIGURE NO.

MA-203D3

FILE NO.

POA-1995-120



NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:

	Uplands		Existing 10' Contours		Work Area/Vegetation Clearing
	Wetlands		Existing 50' Contours		Cut/Fill Limit
	Waters of U.S.		Proposed 10' Contours		Unnamed River/Stream
			Proposed 50' Contours		Named River/Stream

SECTION VIEW LEGEND:

	Fill Area		Existing Ground
	Cut Area		Proposed Grade

Associated Engineering Drawings

TERRACE_7.dwg (BGC) JUN 2012

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

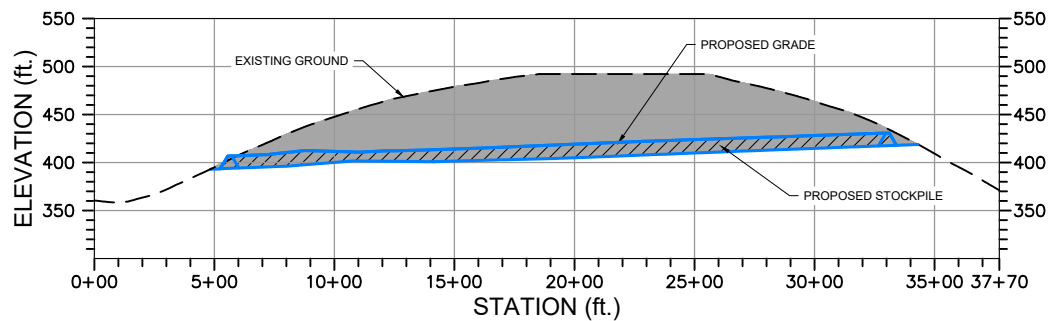
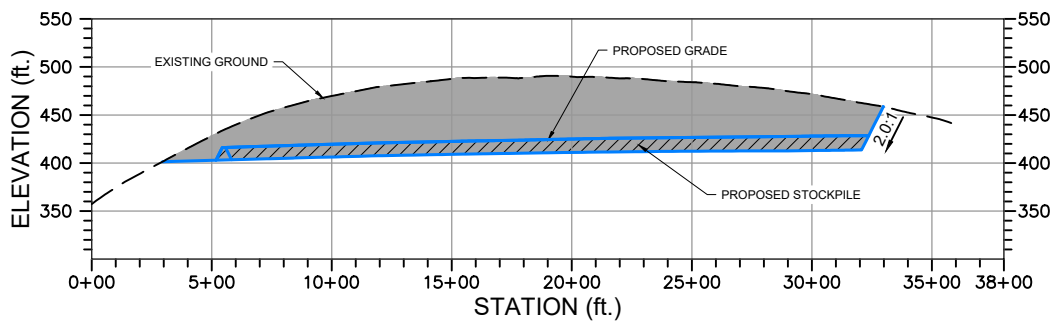
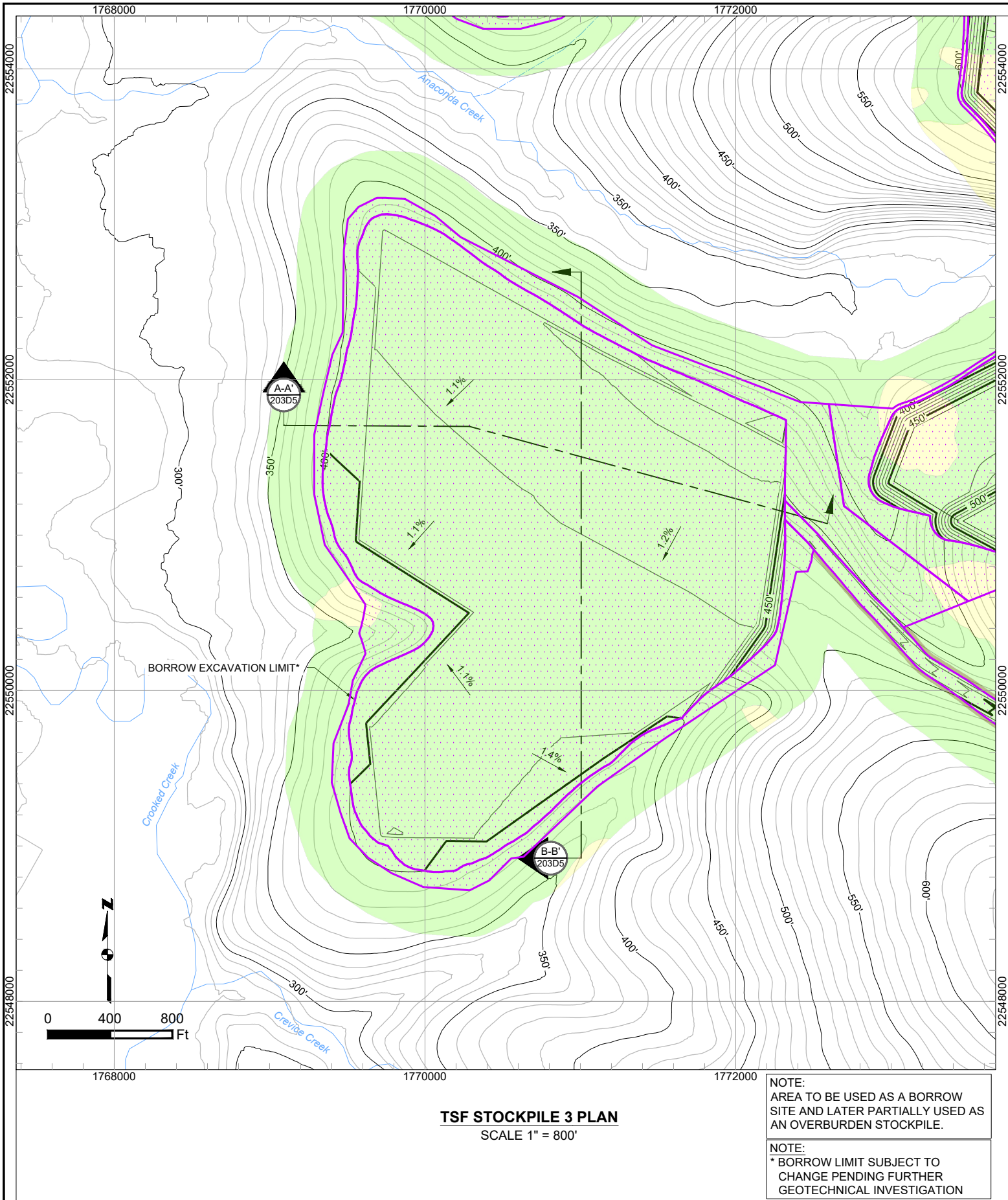
TSF MATERIAL SITE 7 DETAIL

FIGURE NO.

MA-203D4

FILE NO.

POA-1995-120



NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:

	Uplands		Existing 10' Contours		Work Area/Vegetation Clearing
	Wetlands		Existing 50' Contours		Cut/Fill Limit
	Waters of U.S.		Proposed 10' Contours		Unnamed River/Stream
			Proposed 50' Contours		Named River/Stream

SECTION VIEW LEGEND:

	Fill Area		Existing Ground
	Cut Area		Proposed Grade

Associated Engineering Drawings

TERRACE_7.dwg (BGC) JUN 2012

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

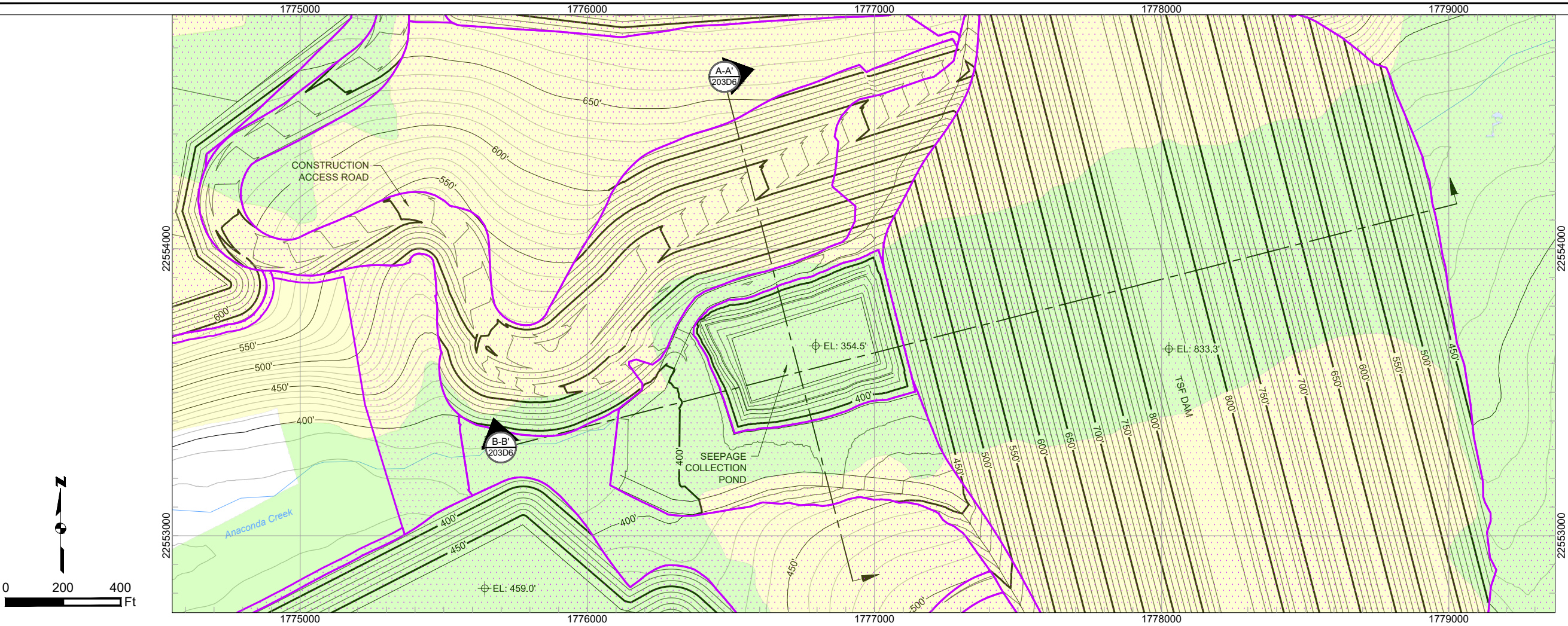
TSF STOCKPILE 3 DETAIL

FIGURE NO.

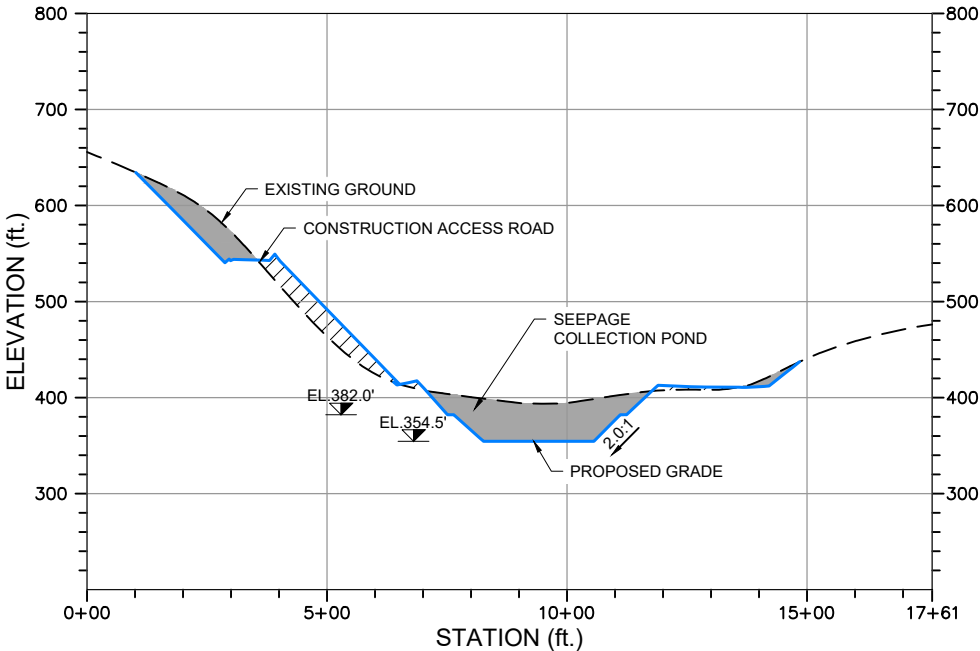
MA-203D5

FILE NO.

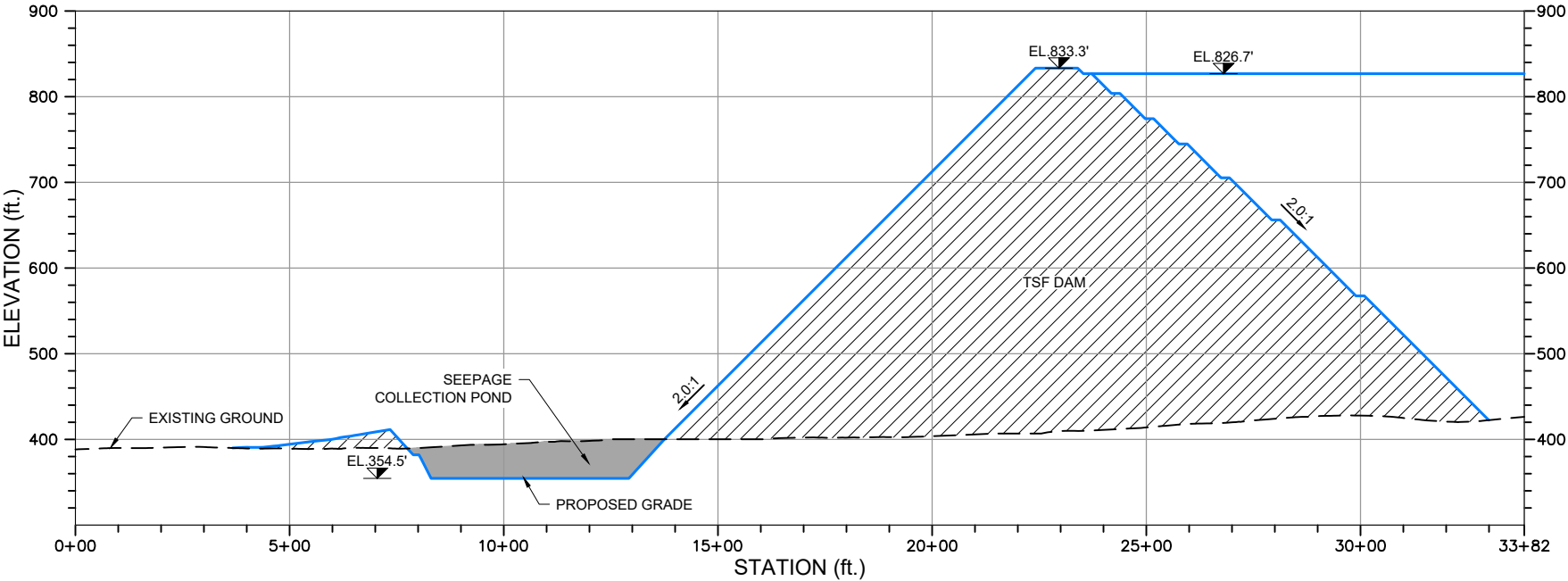
POA-1995-120



TSF SEEPAGE RECOVERY SYSTEM POND PLAN
SCALE 1" = 400'



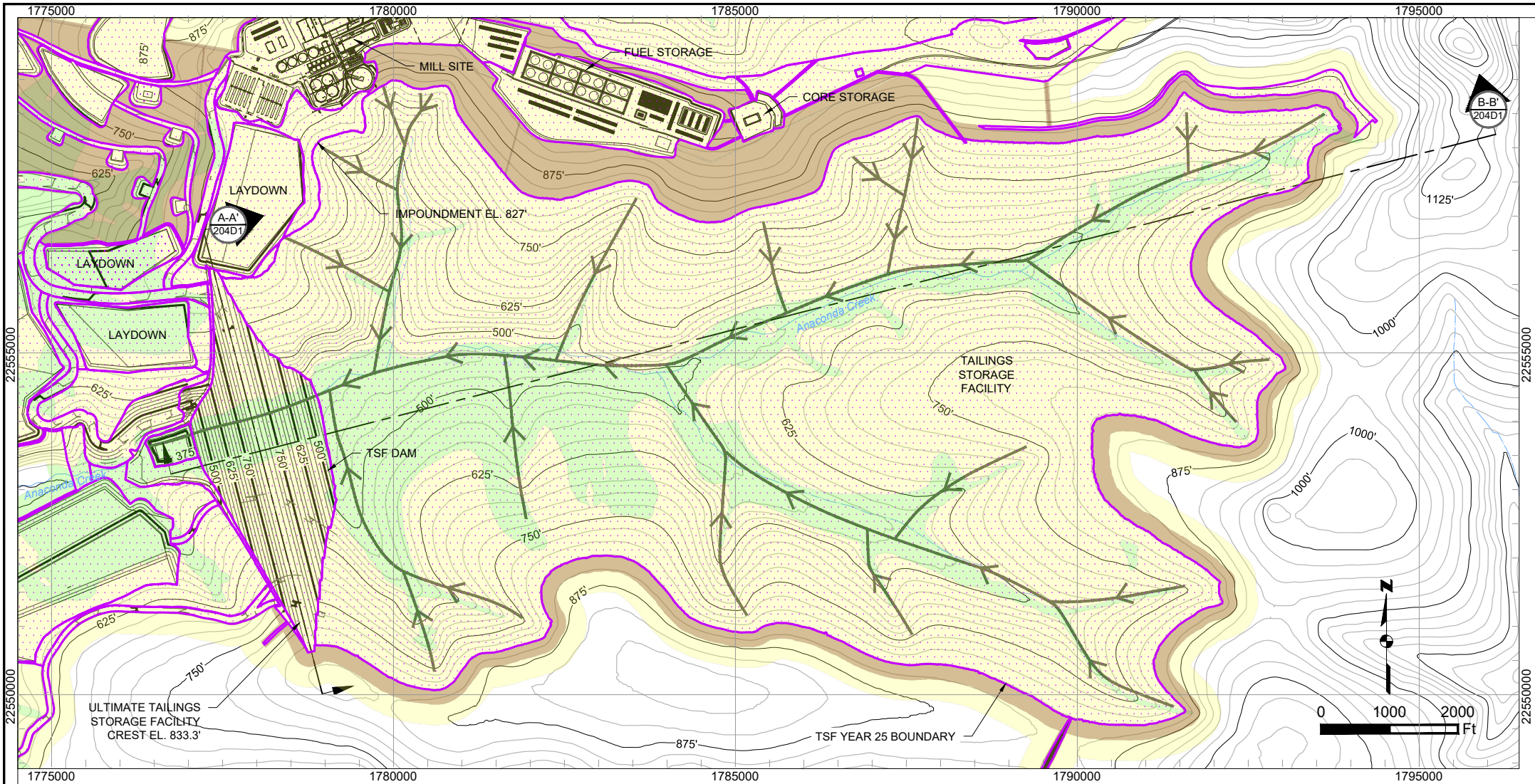
TSF SEEPAGE RECOVERY SYSTEM POND SECTION A-A'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 200'



TSF SEEPAGE RECOVERY SYSTEM POND SECTION B-B'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 200'

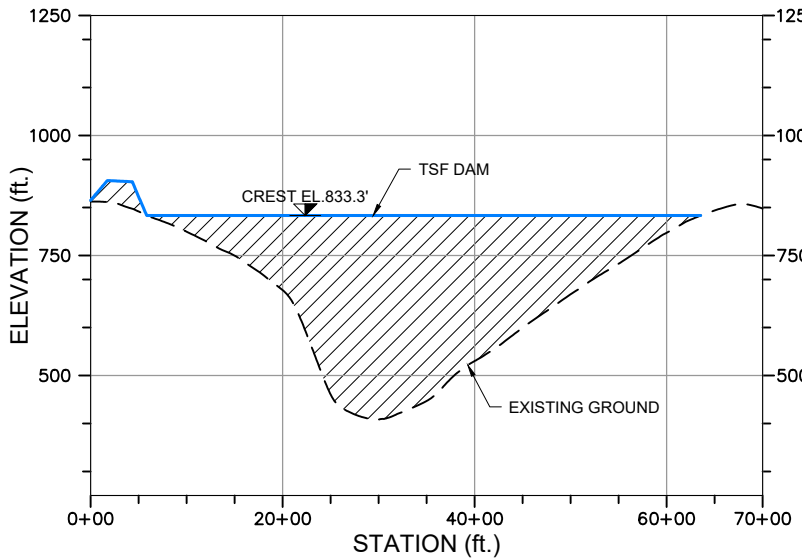
NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:			SECTION VIEW LEGEND:			Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	Uplands		Existing 10' Contours		Work Area/Vegetation Clearing	M19C-SP-SE_01.dwg (BAKER) SEP 2014		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TSF SEEPAGE RECOVERY SYSTEM POND DETAIL	
	Wetlands		Existing 50' Contours		Cut/Fill Limit						
	Waters of U.S.		Proposed 10' Contours		Unnamed River/Stream	NAD 1983 UTM Zone 4N (US Survey Feet)		SCALE: AS SHOWN		DATE: 12/22/2017	
			Proposed 50' Contours		Named River/Stream					FIGURE NO. MA-203D6	
										FILE NO. POA-1995-120	



TSF ULTIMATE BOUNDARY PLAN

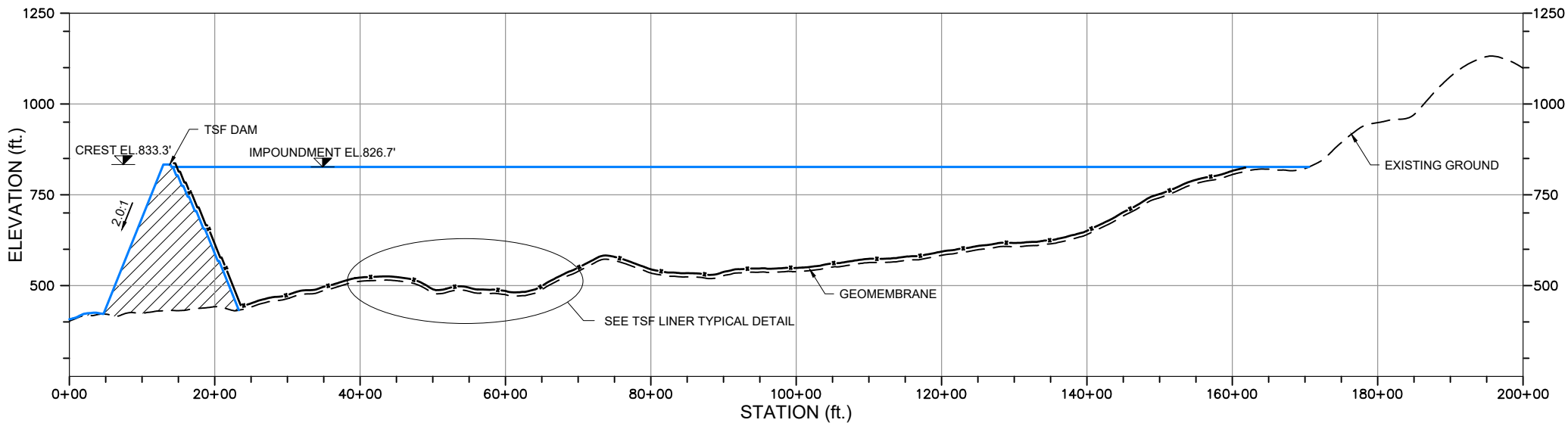
SCALE 1" = 2000'



TSF ULTIMATE BOUNDARY SECTION A-A'

HORIZONTAL SCALE 1" = 2000'

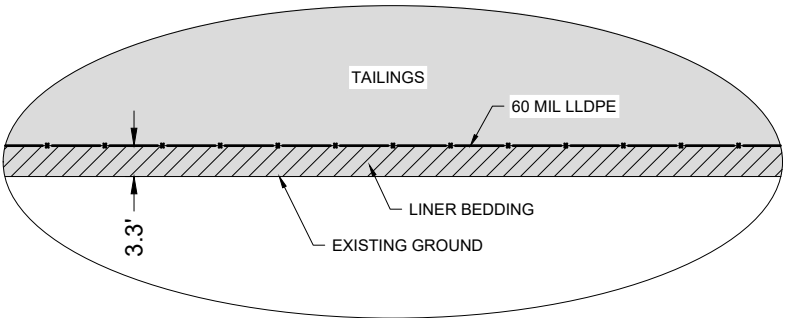
VERTICAL SCALE 1" = 400'



TSF ULTIMATE BOUNDARY SECTION B-B'

HORIZONTAL SCALE 1" = 2000'

VERTICAL SCALE 1" = 400'



TSF LINER TYPICAL DETAIL

N.T.S.

NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:

- | | | |
|-------------------|------------------------|-------------------------------|
| Uplands | Existing 25' Contours | Work Area/Vegetation Clearing |
| Wetlands | Existing 125' Contours | Cut/Fill Limit |
| Waters of U.S. | Proposed 25' Contours | Unnamed River/Stream |
| Diversion Channel | Proposed 125' Contours | Named River/Stream |

SECTION VIEW LEGEND:

- | | |
|-----------------|-------------|
| Fill Area | Geomembrane |
| Cut Area | |
| Existing Ground | |
| Proposed Grade | |

Associated Engineering Drawings

ULTIMATE_TAILINGS_STORAGE_FACILITY.dwg (BGC) JUN 2012

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

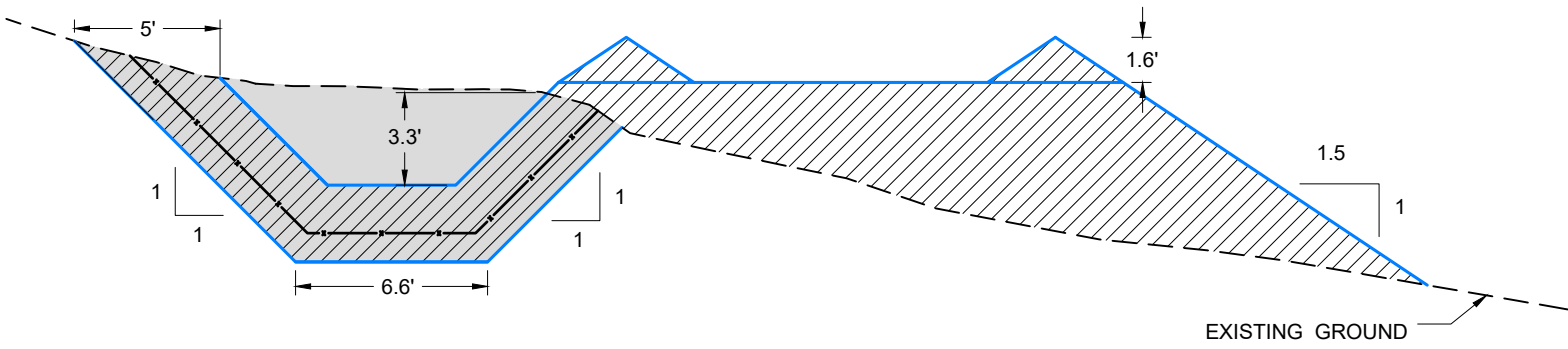
TSF ULTIMATE BOUNDARY
DETAIL

FIGURE NO.

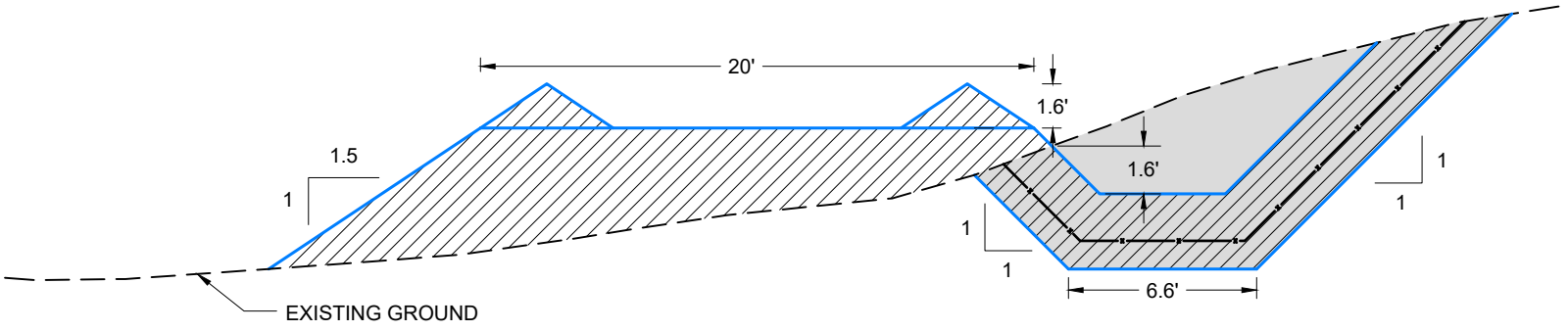
MA-204D1

FILE NO.

POA-1995-120



A-A'
204D2
TSF DRAINAGE - STORMWATER DIVERSION TYPICAL SECTION
SCALE 1" = 2'



B-B'
204D2
TSF DRAINAGE - STORMWATER DIVERSION TYPICAL SECTION
SCALE 1" = 2'

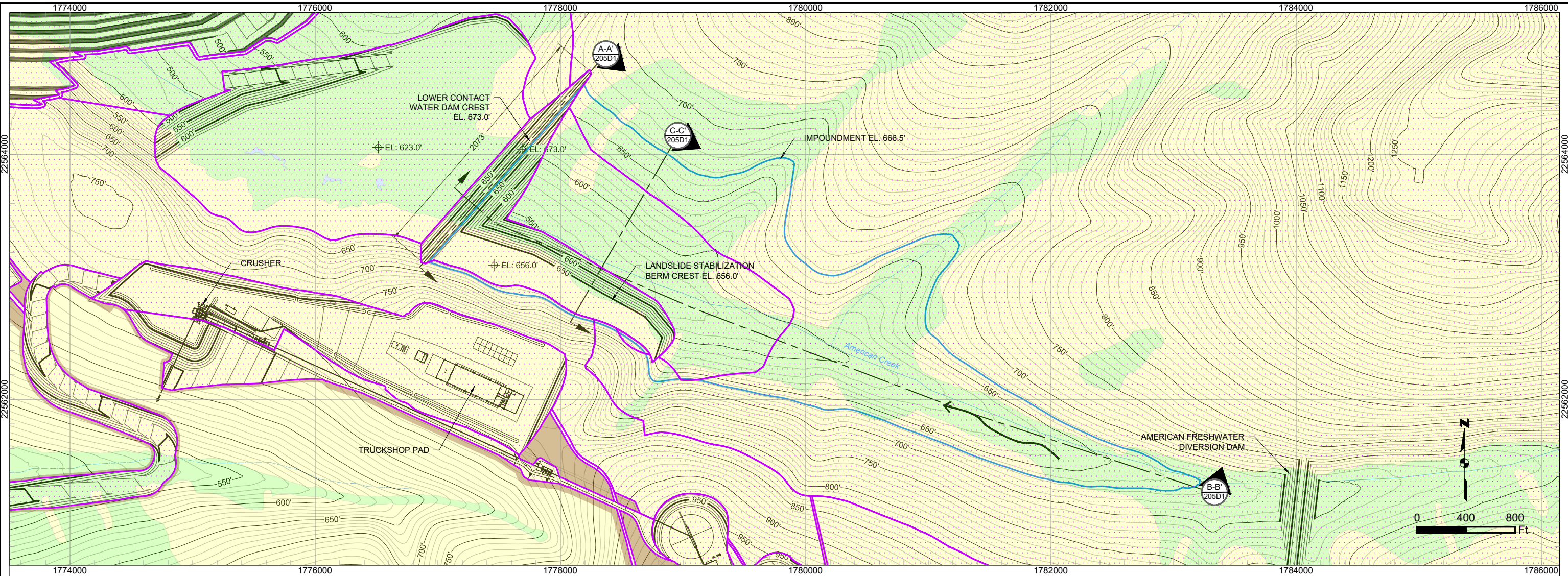
NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

- Fill Area
- Cut Area
- Existing Ground
- Proposed Grade
- HDPE Liner (40 mil)

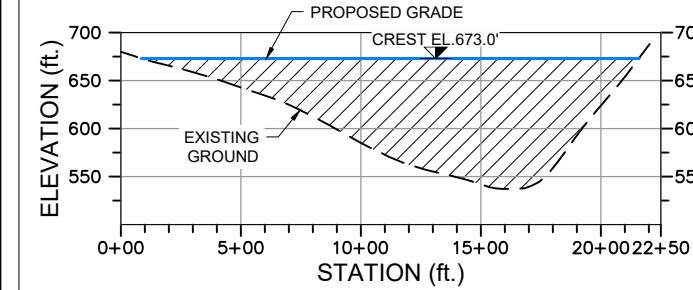
Associated Engineering Drawings	
M01C-SC-BE_01.dwg (BAKER) OCT 2014	

DONLIN GOLD PROJECT	
APPLICANT: Donlin Gold, LLC	
4720 Business Park Blvd., Suite G-25	
Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N (US Survey Feet)	
SCALE:	AS SHOWN
DATE:	12/22/2017

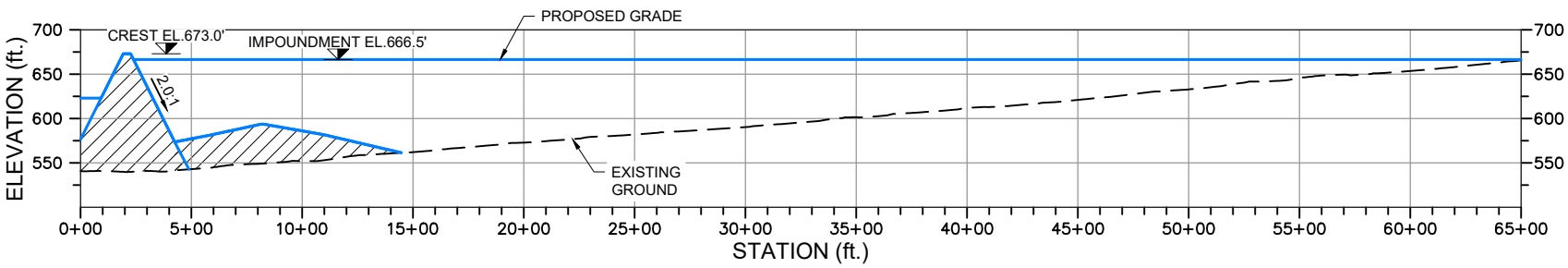
DRAWING TITLE:	
TSF DRAINAGE - STORMWATER DIVERSION DETAIL	
FIGURE NO.	FILE NO.
MA-204D2	POA-1995-120



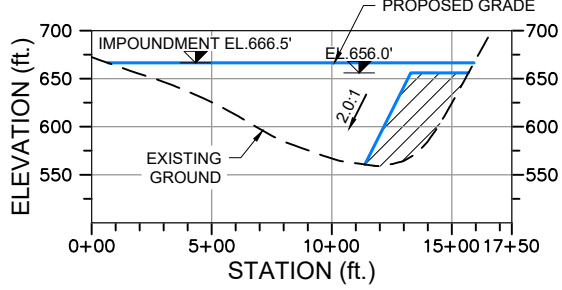
AMERICAN CREEK LOWER CONTACT WATER DAM AND POND PLAN
SCALE 1" = 800'



AMERICAN CREEK LOWER CONTACT WATER DAM AND POND SECTION A-A'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 200'



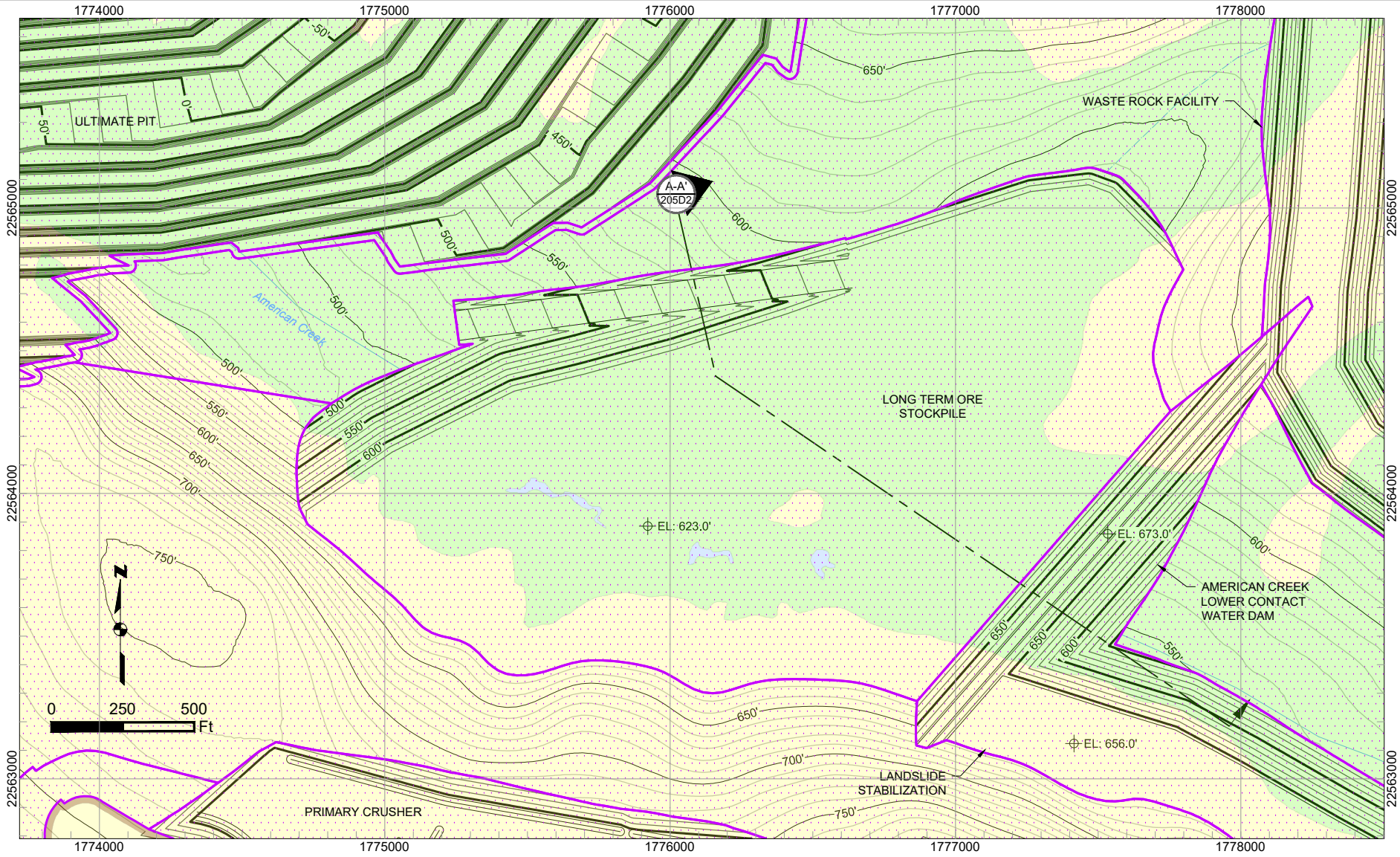
AMERICAN CREEK LOWER CONTACT WATER DAM AND POND SECTION B-B'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 200'



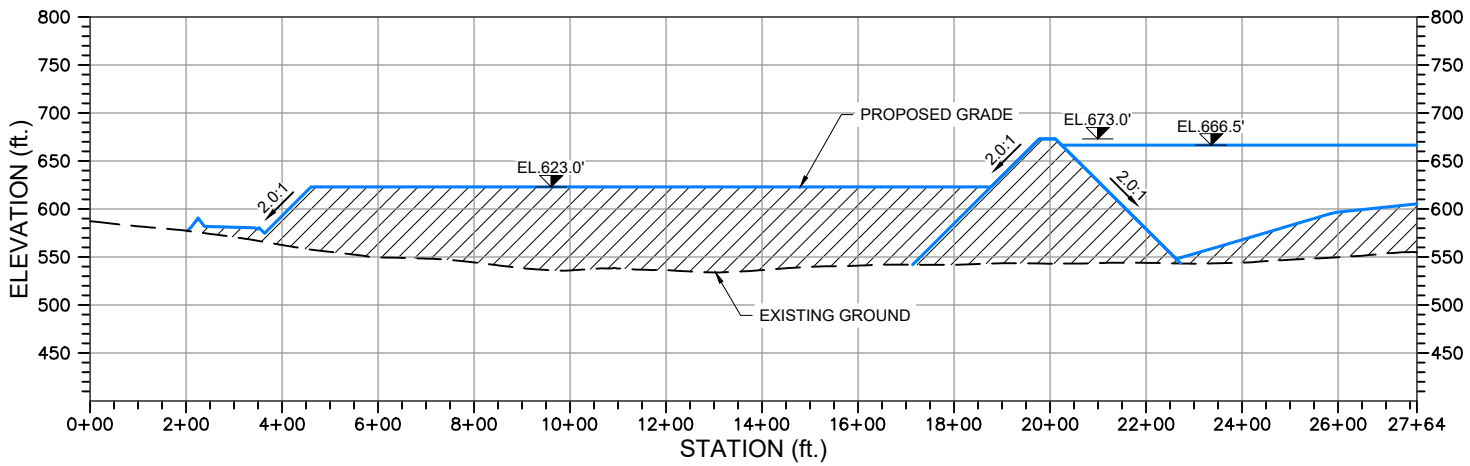
AMERICAN CREEK LOWER CONTACT WATER DAM AND POND SECTION C-C'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 200'

NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:						SECTION VIEW LEGEND:						Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	Uplands		Existing 10' Contours		Work Area/Vegetation Clearing		Fill Area	LOWER_CONTACT_WATER_DAM_AND_IMPOUNDMENT.dwg (BGC) JUNE 2012				APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		AMERICAN CREEK LOWER CONTACT WATER DAM AND POND DETAIL			
	Wetlands		Existing 50' Contours		Cut/Fill Limit		Cut Area										
	Waters of U.S.		Proposed 10' Contours		Unnamed River/Stream		Existing Ground					NAD 1983 UTM Zone 4N (US Survey Feet)		FIGURE NO.			
	American Creek Drainage		Proposed 50' Contours		Named River/Stream		Proposed Grade					SCALE: AS SHOWN		DATE: 12/22/2017			
														MA-205D1		POA-1995-120	



LONG TERM ORE STOCKPILE PLAN
SCALE 1" = 500'

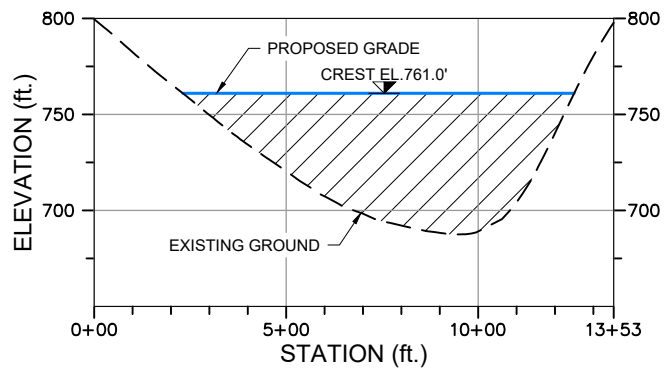
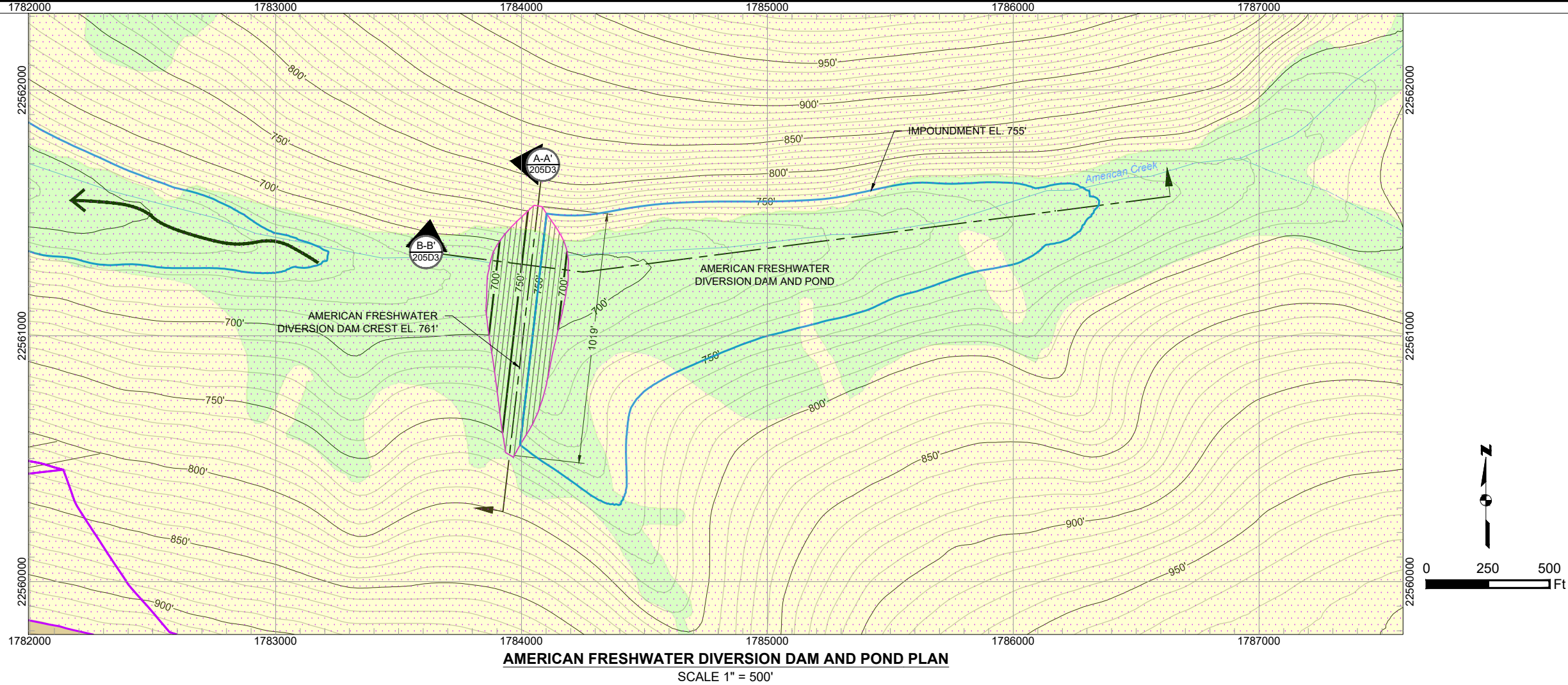


LONG TERM ORE STOCKPILE SECTION A-A'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 200'

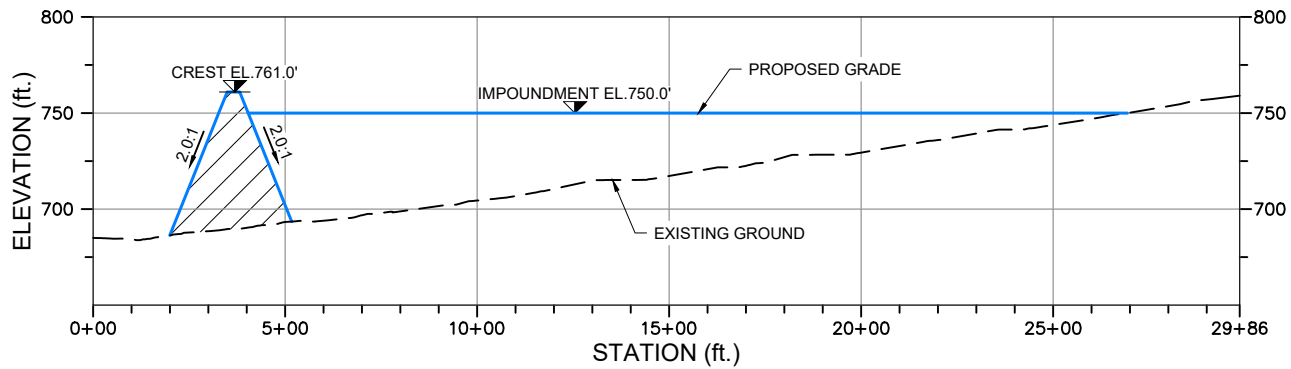
NOTE:
STOCKPILE WILL VARY IN SIZE AND SHAPE THROUGHOUT
THE MINE LIFE. AT THE END OF MINE LIFE, ALL
STOCKPILED ORE WILL BE FED TO THE PLANT AND THE
STOCKPILE WILL NO LONGER EXIST.

NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:				SECTION VIEW LEGEND:				Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
 Uplands	 Existing 10' Contours	 Work Area/Vegetation Clearing	 Fill Area	ORE_STOCKPILE_BERM_AND_SUMP.dwg (BGC) JUNE 2012				APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		LONG TERM ORE STOCKPILE DETAIL			
 Wetlands	 Existing 50' Contours	 Cut/Fill Limit	 Cut Area										
 Waters of U.S.	 Proposed 10' Contours	 Unnamed River/Stream	 Existing Ground					NAD 1983 UTM Zone 4N (US Survey Feet)		FIGURE NO.	FILE NO.		
	 Proposed 50' Contours	 Named River/Stream	 Proposed Grade					SCALE:	AS SHOWN	DATE: 12/22/2017	MA-205D2	POA-1995-120	



AMERICAN FRESHWATER DIVERSION DAM AND POND SECTION A-A'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'



AMERICAN FRESHWATER DIVERSION DAM AND POND SECTION B-B'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'

NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

Associated Engineering Drawings			DRAWING TITLE:	
AMERICAN FRESHWATER DIVERSION DAM AND IMPOUNDMENT.dwg (BGC) JUNE 2012			AMERICAN FRESHWATER DIVERSION DAM AND POND DETAIL	
DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503			FIGURE NO.	FILE NO.
NAD 1983 UTM Zone 4N (US Survey Feet)			MA-205D3	POA-1995-120
SCALE:	AS SHOWN	DATE:	12/22/2017	

PLAN LEGEND:

Uplands

Wetlands

Waters of U.S.

American Creek Drainage

Existing 10' Contours

Existing 50' Contours

Proposed 10' Contours

Proposed 50' Contours

Work Area/Vegetation Clearing

Cut/Fill Limit

Unnamed River/Stream

Named River/Stream

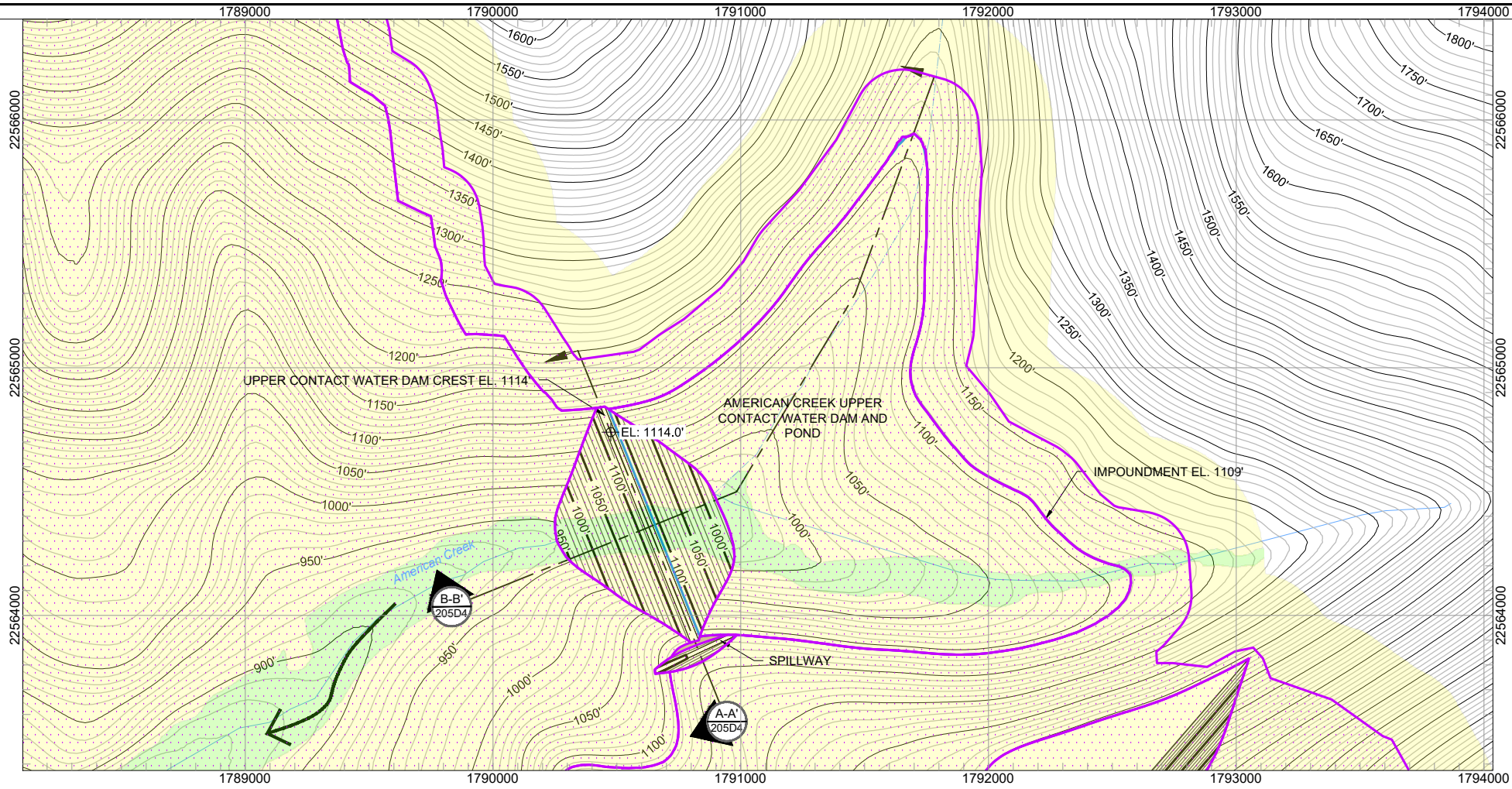
SECTION VIEW LEGEND:

Fill Area

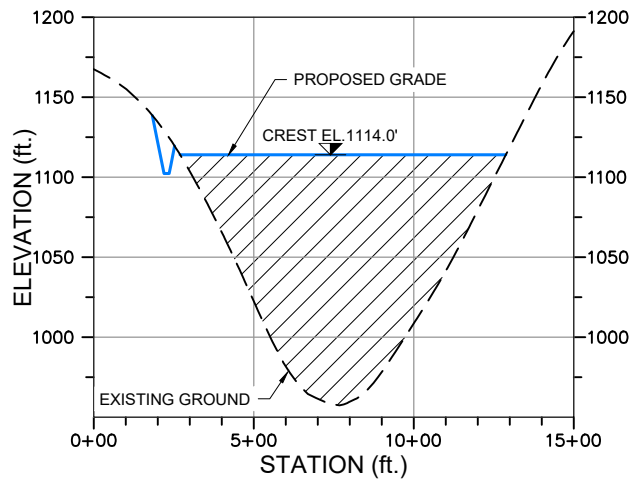
Cut Area

Existing Ground

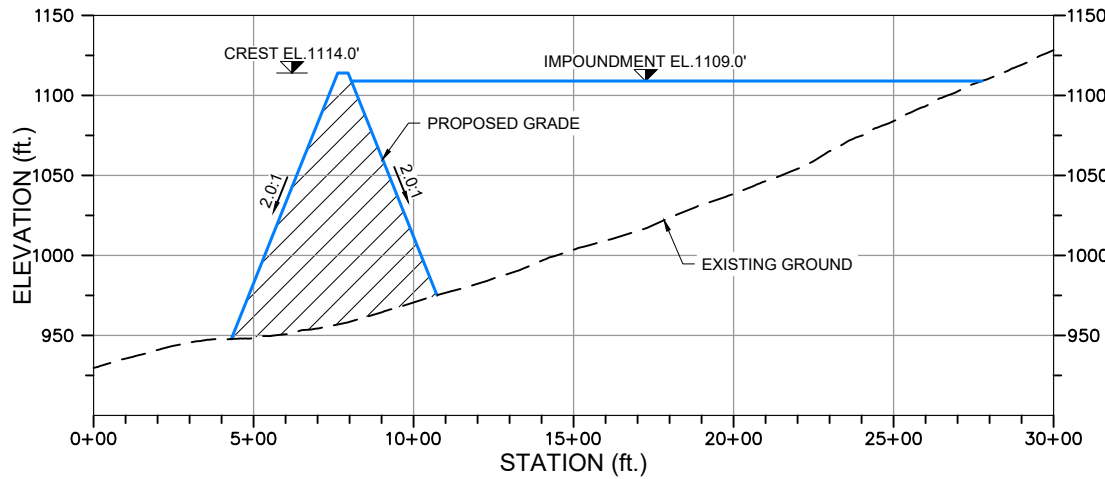
Proposed Grade



AMERICAN CREEK UPPER CONTACT WATER DAM AND POND PLAN
SCALE 1" = 600'



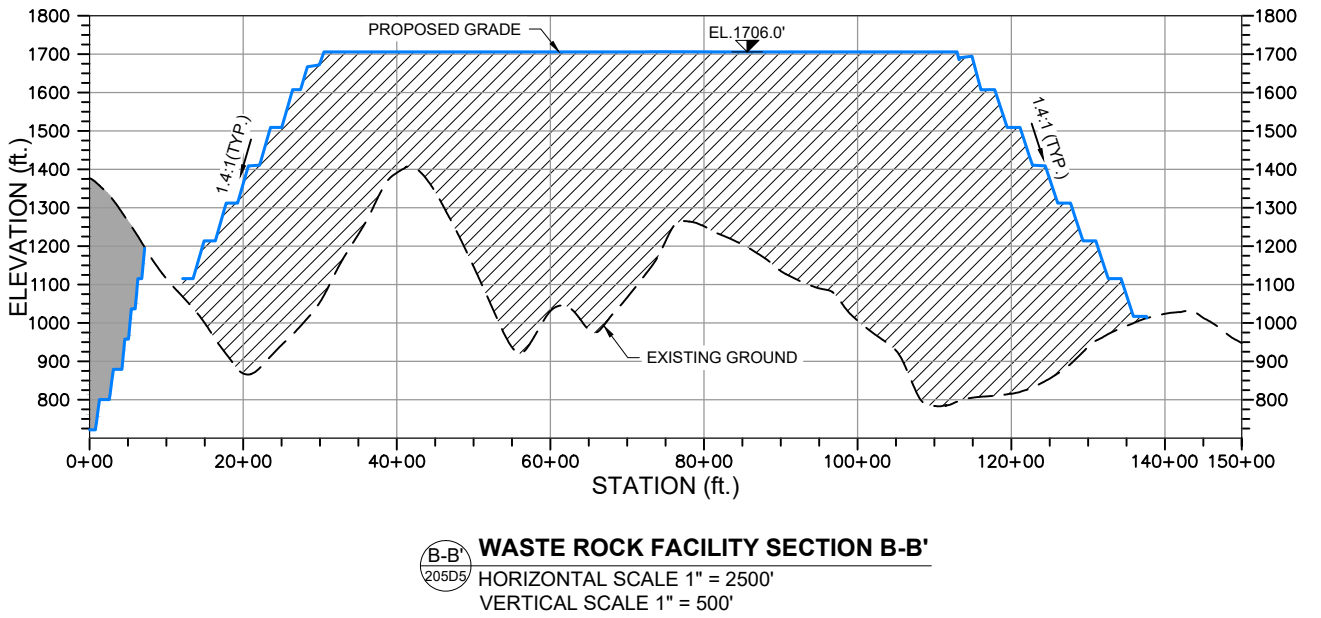
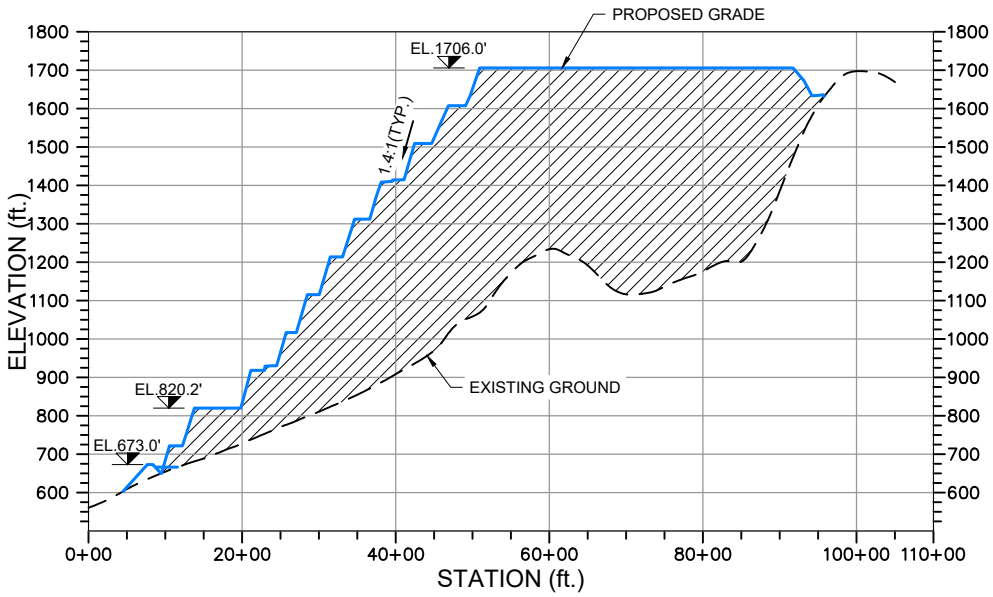
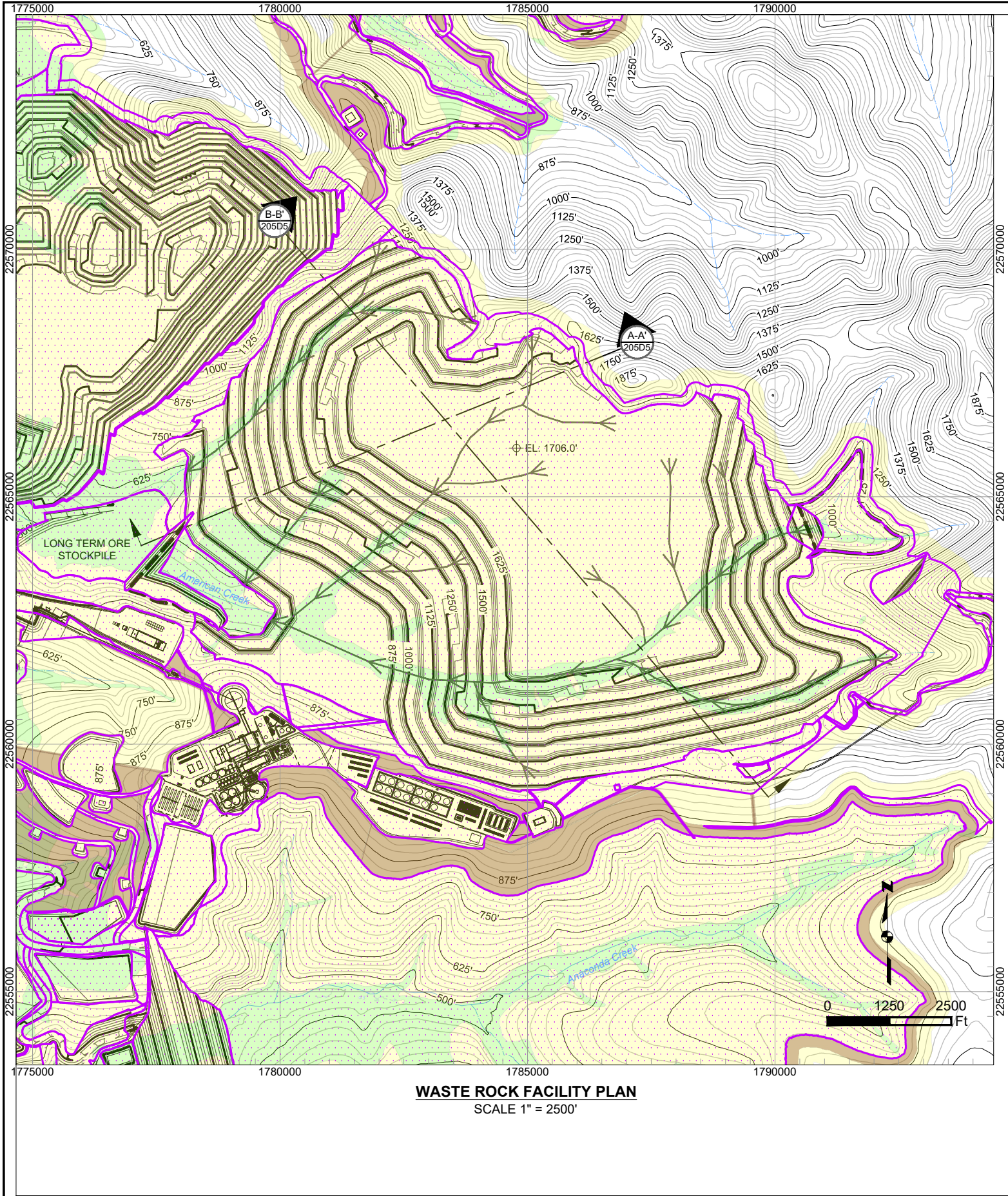
A-A'
205D4
AMERICAN CREEK UPPER CONTACT WATER DAM AND POND SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



B-B'
205D4
AMERICAN CREEK UPPER CONTACT WATER DAM AND POND SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:			SECTION VIEW LEGEND:			Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	Uplands		Existing 10' Contours		Work Area/Vegetation Clearing	UPPER_CONTACT_WATER_DAM_AND_IMPOUNDMENT.dwg (BGC)		APPLICANT: Donlin Gold, LLC		AMERICAN CREEK UPPER CONTACT WATER DAM AND POND DETAIL	
	Wetlands		Existing 50' Contours		Cut/Fill Limit	JUNE 2012		4720 Business Park Blvd., Suite G-25			
	Waters of U.S.		Proposed 10' Contours		Unnamed River/Stream			Anchorage, Alaska 99503			
	American Creek Drainage		Proposed 50' Contours		Named River/Stream			NAD 1983 UTM Zone 4N (US Survey Feet)		FIGURE NO.	FILE NO.
								SCALE:	AS SHOWN	DATE: 12/22/2017	MA-205D4
										POA-1995-120	



NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:

	Uplands		Existing 25' Contours		Work Area/Vegetation Clearing
	Wetlands		Existing 125' Contours		Cut/Fill Limit
	Waters of U.S.		Proposed 25' Contours		Unnamed River/Stream
	Underdrain Arrow Indicates Direction of Flow		Proposed 125' Contours		Named River/Stream

SECTION VIEW LEGEND:

	Fill Area		Existing Ground
	Cut Area		Proposed Grade

Associated Engineering Drawings

WASTE_ROCK_FACILITY.dwg (BGC) JUNE 2012

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

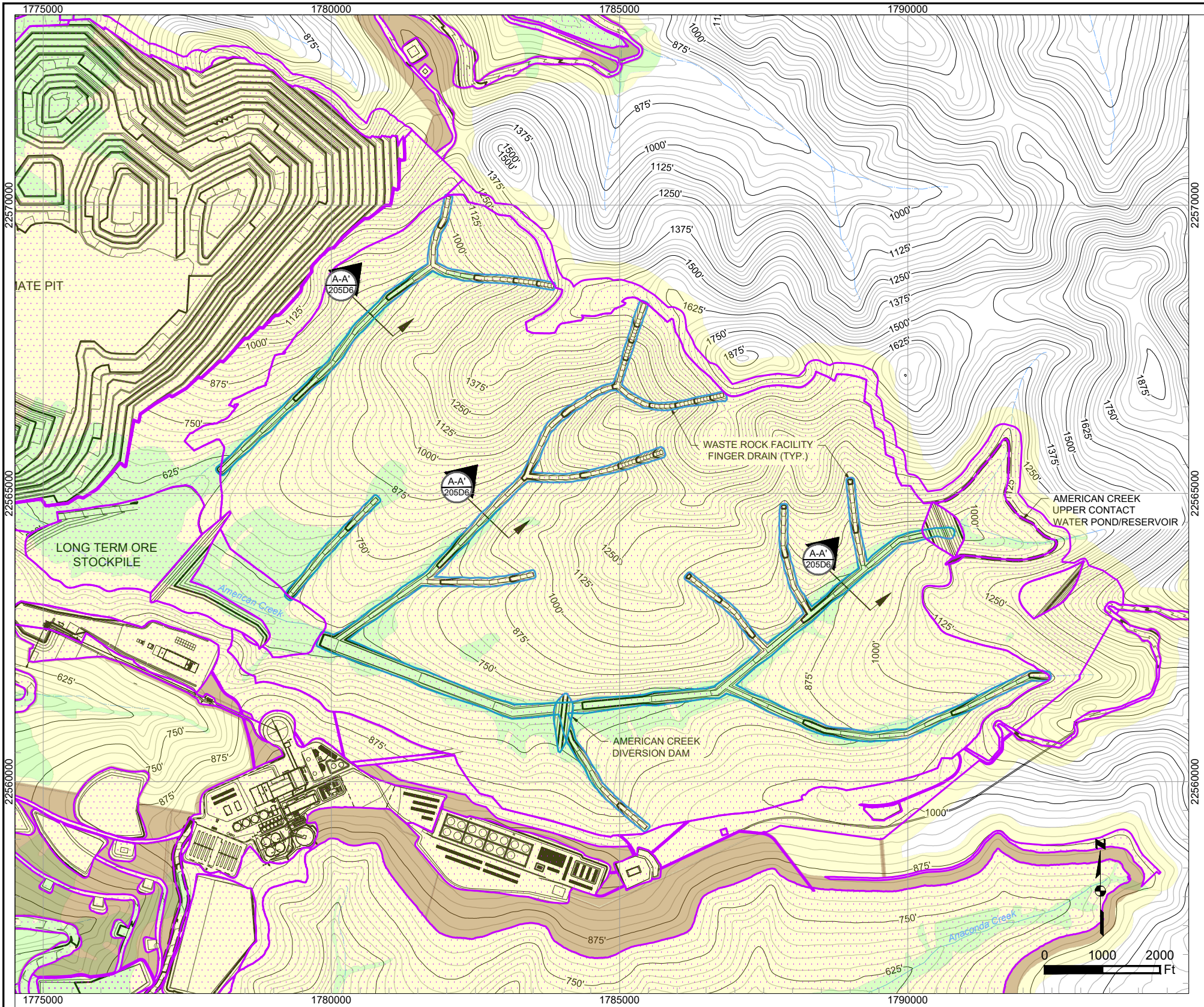
WASTE ROCK FACILITY DETAIL

FIGURE NO.

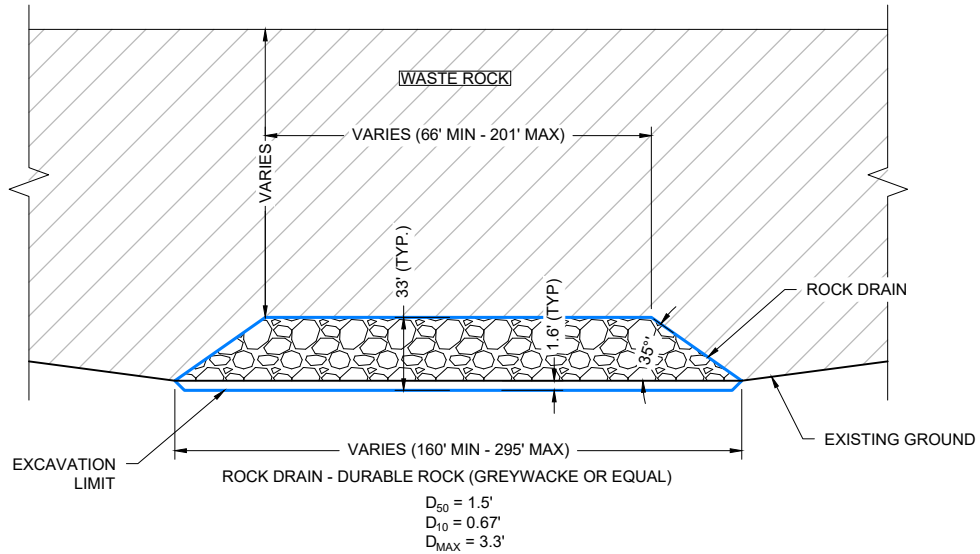
MA-205D5

FILE NO.

POA-1995-120



WASTE ROCK FACILITY DRAINAGE SYSTEM PLAN
SCALE 1" = 2000'



WASTE ROCK FACILITY FINGER DRAIN TYPICAL SECTION A-A'
SCALE 1" = 100'

NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO
CHANGE PRIOR TO FINAL DESIGN.

PLAN LEGEND:

	Uplands		Existing 25' Contours		Work Area/Vegetation Clearing
	Wetlands		Existing 125' Contours		Cut/Fill Limit
	Waters of U.S.		Proposed 25' Contours		Unnamed River/Stream
			Proposed 125' Contours		Named River/Stream

SECTION VIEW LEGEND:

	Fill Area
	Cut Area
	Existing Ground
	Proposed Grade

Associated Engineering Drawings

M19-SP-SE_01.dwg (BAKER) SEP 2014

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

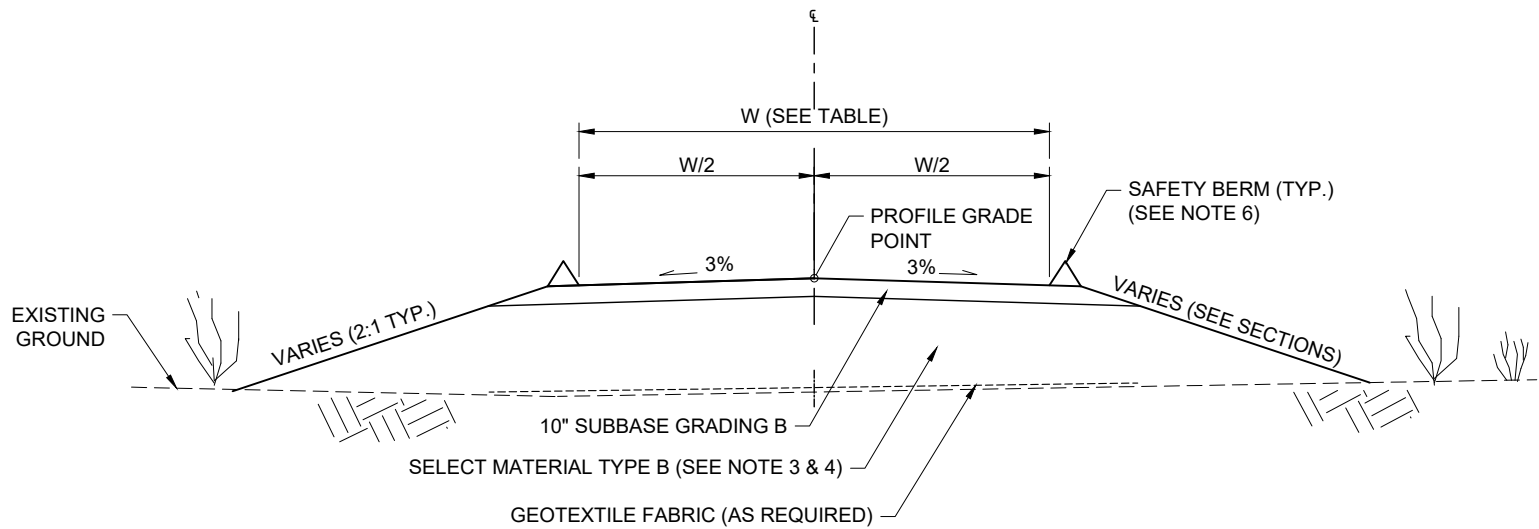
WASTE ROCK FACILITY
DRAINAGE SYSTEM DETAIL

FIGURE NO.

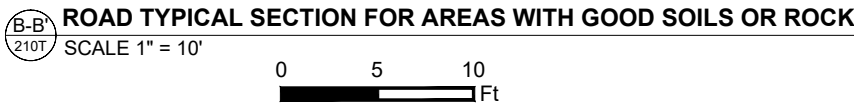
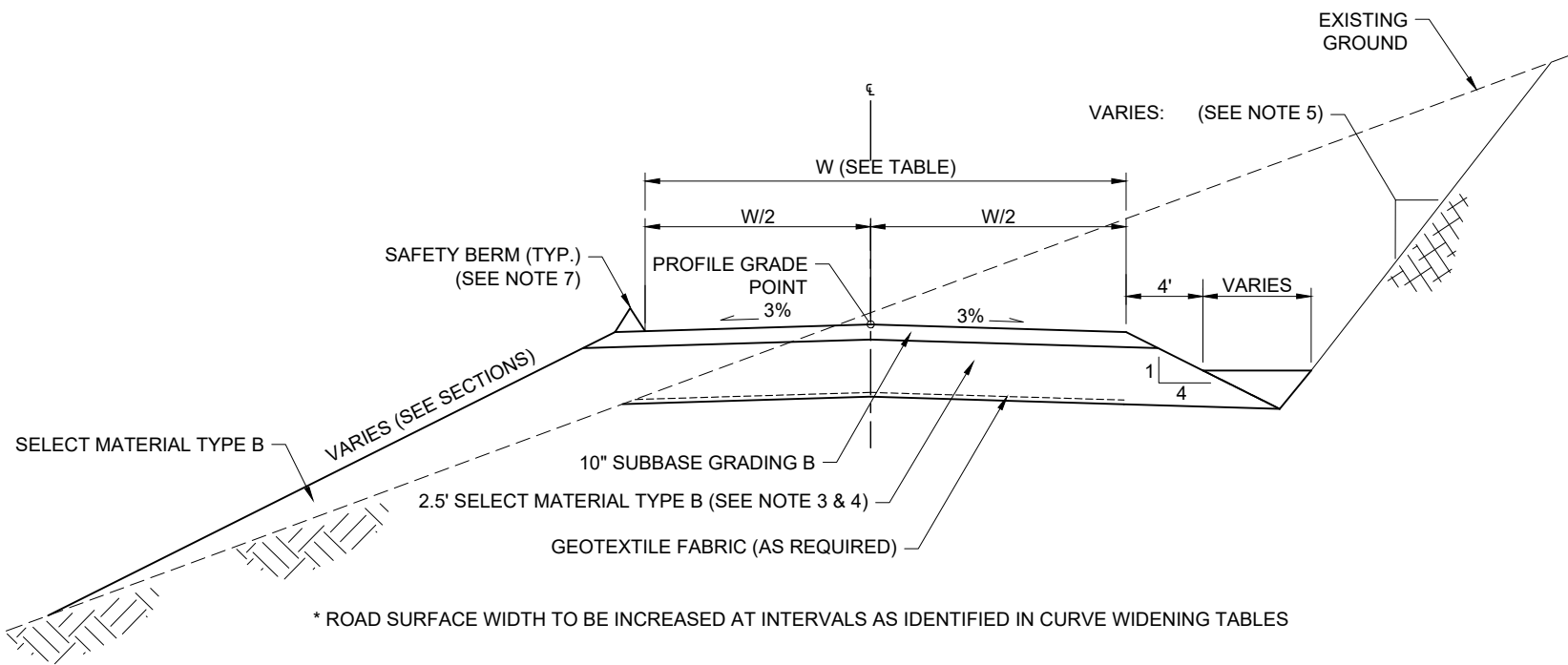
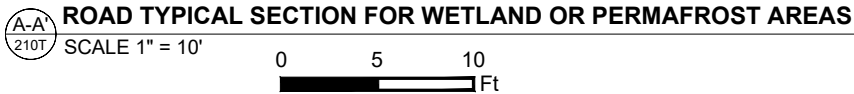
MA-205D6

FILE NO.

POA-1995-120



SECTION TYPICAL FOR WETLAND AND PERMAFROST INTERVALS IN MOSTLY LEVEL TERRAIN.



NOTES:

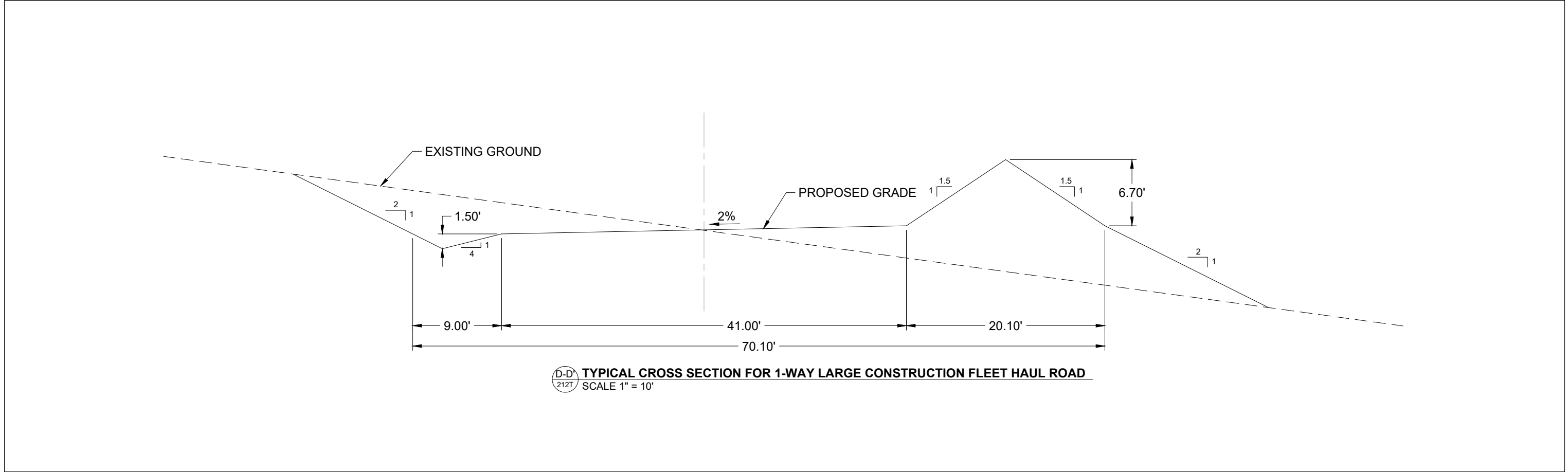
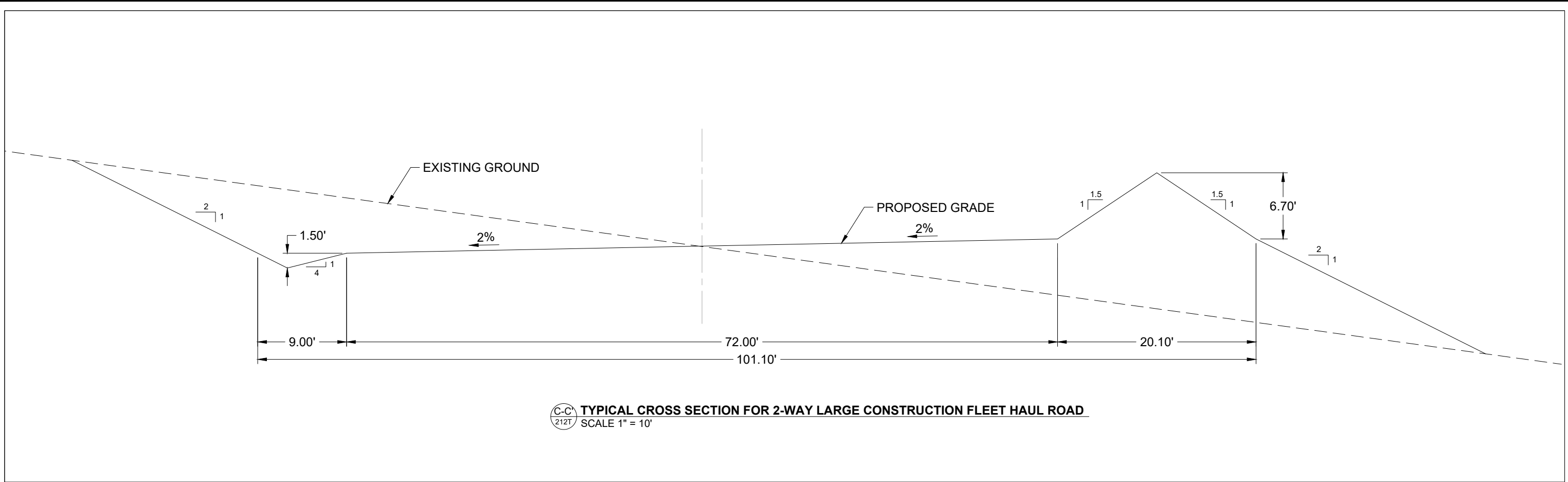
- CLEARING LIMITS MIN. 10' BEYOND TOP OF CUT OR TOE OF FILL.
- SUBBASE GRADING B; TO CONSIST OF 3" MINUS, WELL GRADED, GRANULAR MATERIAL WITH 6 TO 10% PASSING THE 200 SIEVE. MATERIAL TO BE DURABLE
- SELECT MATERIAL TYPE B; TO CONSIST OF COARSE ROCK OR GRAVEL. NON-FROST-SUSCEPTIBLE.
- DEPTH OF FILL WILL VARY DEPENDING ON SOIL TYPE AND CONDITION.
- TO THE EXTENT POSSIBLE, NATIVE VEGETATION AND GROUND SURFACE TO BE LEFT INPLACE.
- SAFETY BERM TO BE CONSTRUCTED TO A HEIGHT EQUAL TO ONE HALF THE TIRE DIAMETER OF THE LARGEST VEHICLE TO TRAVEL ROADWAY.

FAC_ID	Facility Name	W (ft)
35	Jungjuk-Donlin Road, Crooked Creek Bridge to Pit Access Road	28
36	Jungjuk-Donlin Road, Pit Access Road to Mill/Plant Site	28
39	Plant Site Crusher Facility Access Road & Parking	20
40	Fleet Service Access Road	33
55	Snow Gulch Pond Access Road	16
60	AN Storage Access Road	16
69	Upper TSF Access Road - A	16
70	Upper TSF Access Road - B	16
115	Plant Site Waste Rock Facility Access Road	80
126	Waste Rock Storage Area Access Road	16
133	American Ridge Access Road	16

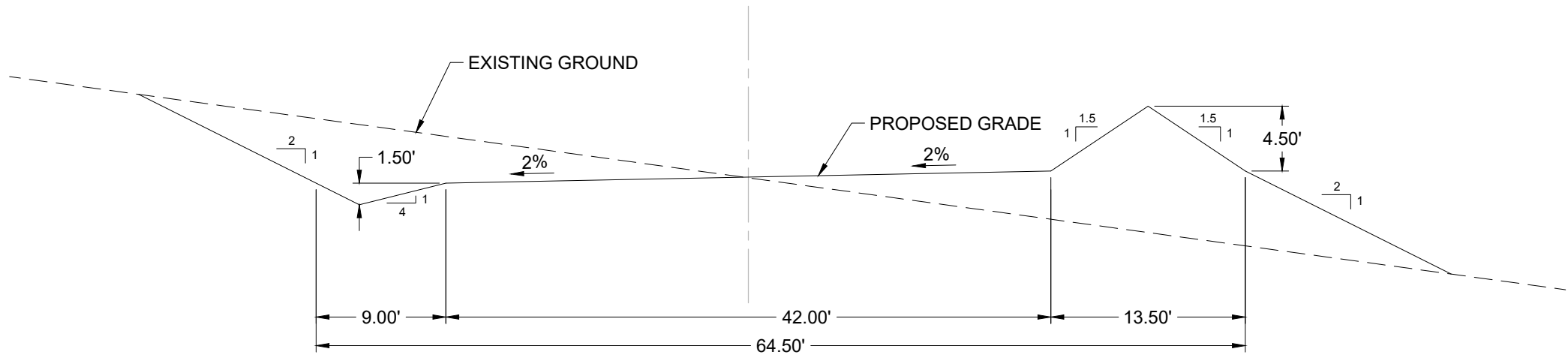
NOTES:

- CLEARING LIMITS MIN. 10' BEYOND TOP OF CUT OR TOE OF FILL.
- SUBBASE GRADING B; TO CONSIST OF 3" MINUS, WELL GRADED, GRANULAR MATERIAL WITH 6 TO 10% PASSING THE 200 SIEVE. MATERIAL TO BE DURABLE
- SELECT MATERIAL TYPE B; TO CONSIST OF COARSE ROCK OR GRAVEL. NON-FROST-SUSCEPTIBLE.
- DEPTH OF FILL WILL VARY DEPENDING ON SOIL TYPE AND CONDITION.
- BACKSLOPES WILL VARY DEPENDENT UPON SOIL TYPES OR ROCK CHARACTERISTICS.
TYPICAL:
3.0 : 1 FOR WET SILTY COLLUVIAL SOIL
2.0 : 1 FOR WELL DRAINED SILT AND SILTY GRAVEL
1.5 : 1 FOR WELL DRAINED SILT AND SILTY GRAVEL UP TO 1.0 : 1 FOR ROCK
- ACCOMMODATE EXCESS EXCAVATION AND WASTE DISPOSAL BY FLATTENING AND/OR EXTENDING INSLOPE. EXTENT TO BE DETERMINED BY FIELD ENGINEER.
- SAFETY BERM TO BE CONSTRUCTED TO A HEIGHT EQUAL TO ONE HALF THE TIRE DIAMETER OF THE LARGEST VEHICLE TO TRAVEL ROADWAY.

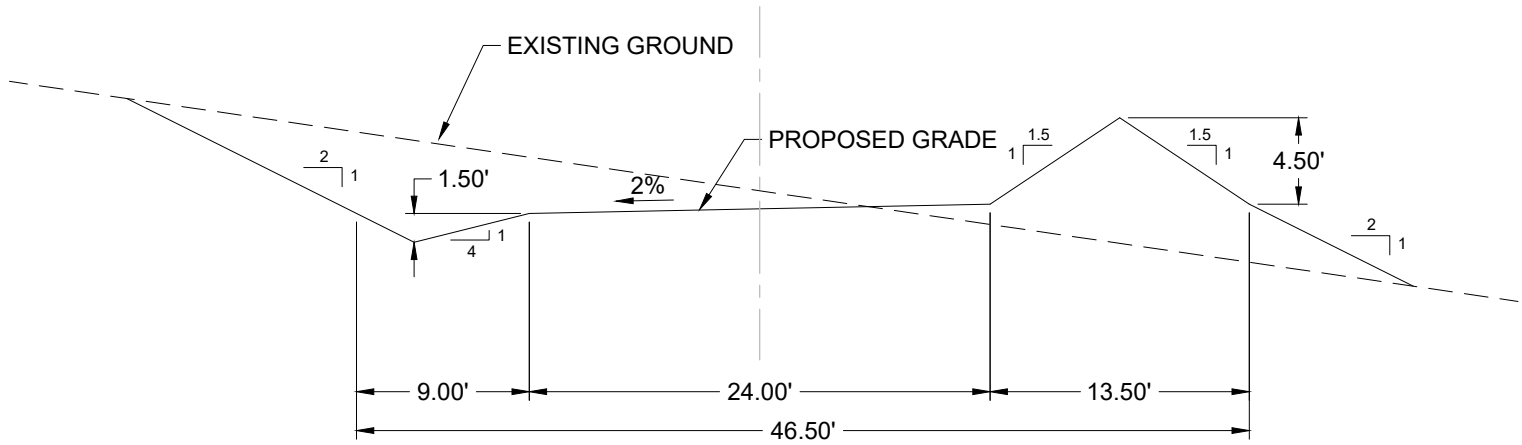
NOTE: ALL GRADING IS PRELIMINARY AND SUBJECT TO CHANGE PRIOR TO FINAL DESIGN.



Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
HAUL ROAD AND CONSTRUCTION ROAD CROSS-SECTION_PROFILE.dwg (BGC / RAY HODSON) MAY 2011		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		LARGE CONSTRUCTION FLEET HAUL ROAD TYPICAL DETAIL	
		NAD 1983 UTM Zone 4N (US Survey Feet)			
		SCALE: AS SHOWN		DATE: 12/22/2017	



(E-E') 213T TYPICAL CROSS SECTION FOR 2-WAY SMALL CONSTRUCTION FLEET HAUL ROAD
SCALE 1" = 10'



(F-F') 213T TYPICAL CROSS SECTION FOR 1-WAY SMALL CONSTRUCTION FLEET HAUL ROAD
SCALE 1" = 10'

Associated Engineering Drawings

HAUL ROAD AND CONSTRUCTION ROAD CROSS-SECTION_
PROFILE.dwg (BGC / RAY HODSON) MAY 2011

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

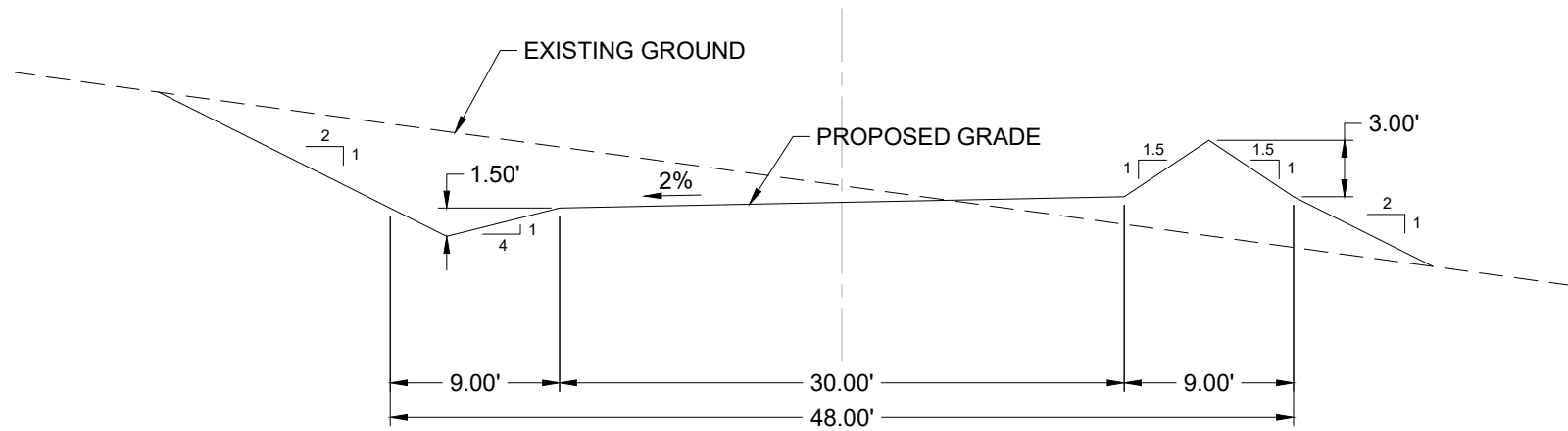
**SMALL CONSTRUCTION FLEET
HAUL ROAD TYPICAL DETAIL**

FIGURE NO.

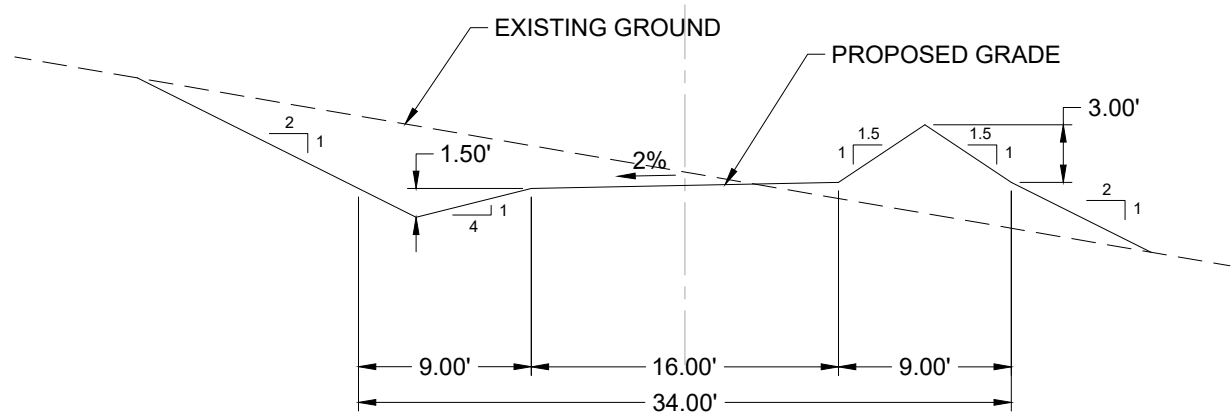
MA-213T

FILE NO.

POA-1995-120



G-G
214T
TYPICAL CROSS SECTION FOR LIGHT VEHICLE ACCESS ROAD - HEAVY USE
SCALE 1" = 10'



H-H
214T
TYPICAL CROSS SECTION FOR LIGHT VEHICLE ACCESS ROAD - OCCASIONAL USE
SCALE 1" = 10'

Associated Engineering Drawings

HAUL ROAD AND CONSTRUCTION ROAD CROSS-SECTION PROFILE.dwg (BGC / RAY HODSON) MAY 2011

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N (US Survey Feet)

SCALE: AS SHOWN

DATE: 12/22/2017

DRAWING TITLE:

**LIGHT VEHICLE ACCESS ROAD
TYPICAL DETAIL**

FIGURE NO.

MA-214T

FILE NO.

POA-1995-120