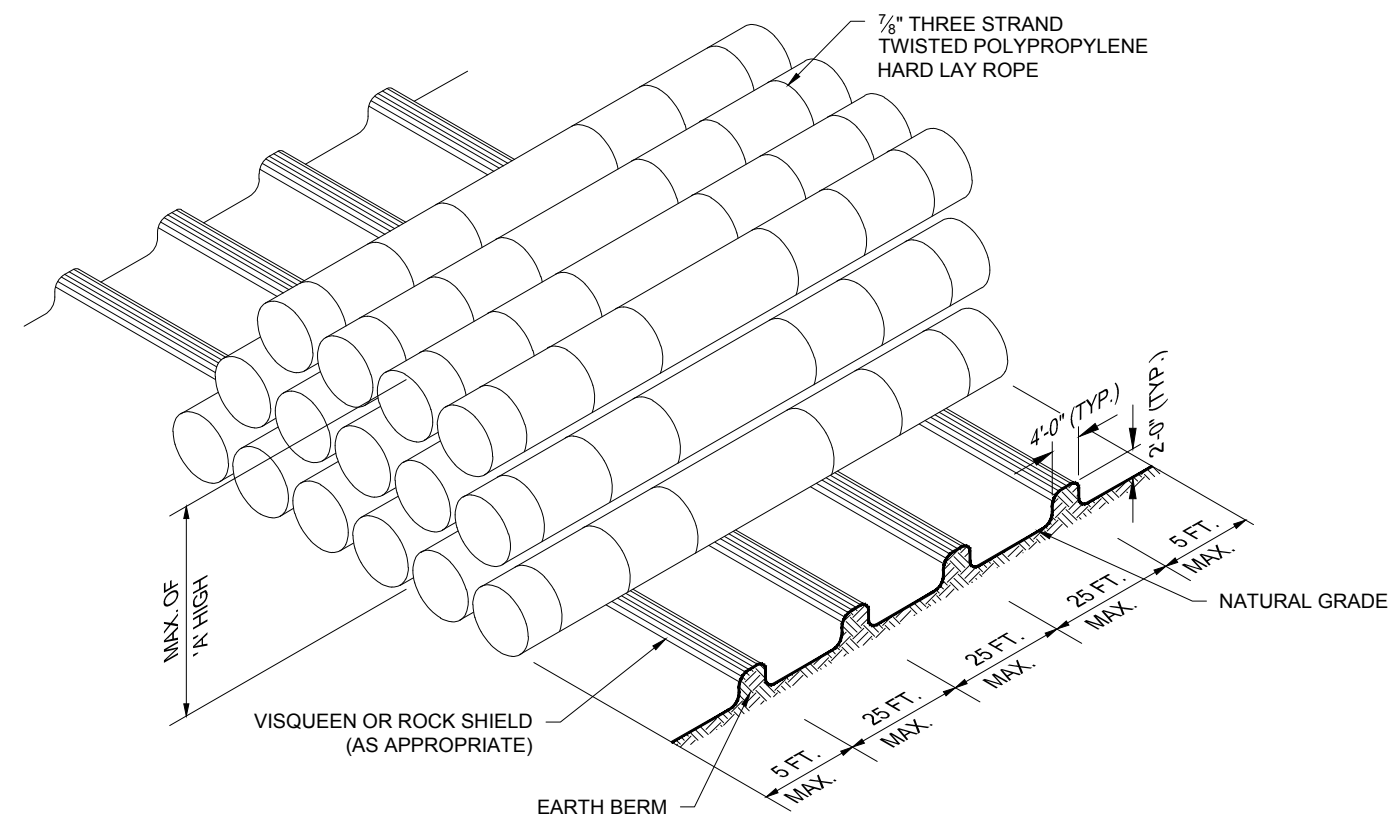


TYPICAL PIPE STORAGE YARD PLAN
N.T.S.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P04W-TYPT-01.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL PIPE STORAGE YARD	
	SCALE: AS SHOWN		DATE: 8/31/2015		FIGURE NO. PA-130T	FILE NO. POA-1995-120



ROPE INSTALLATION

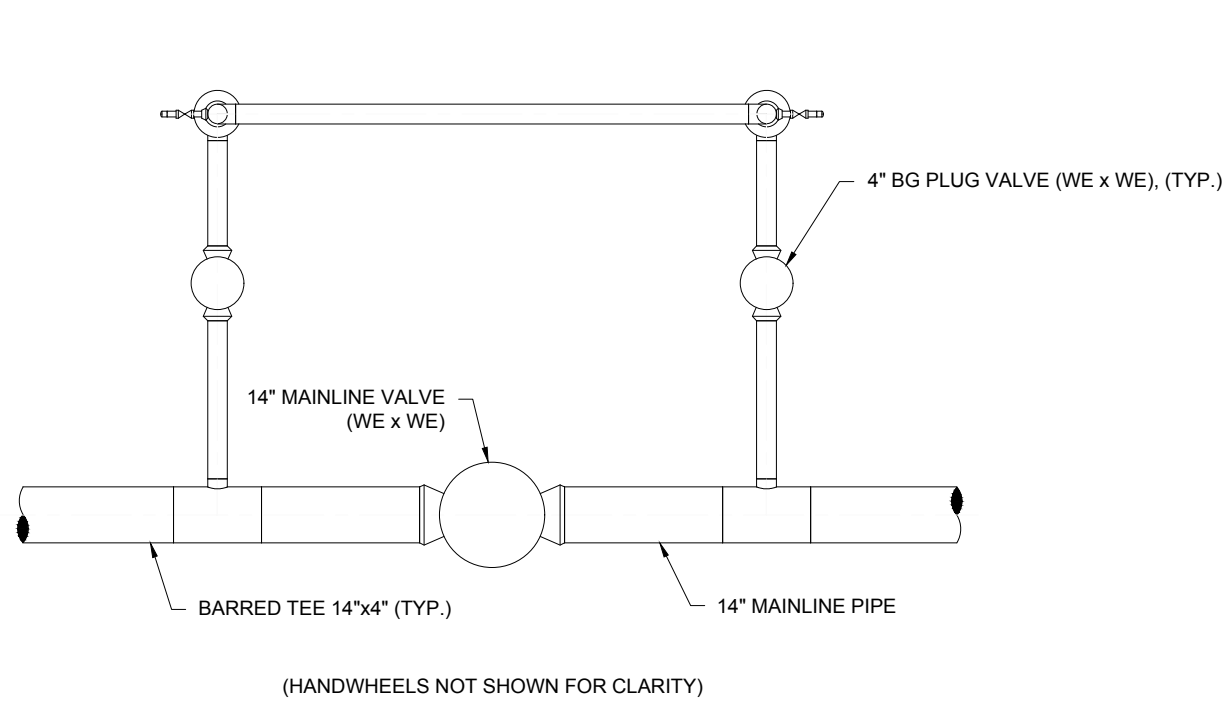
1. ROPE SPACING SHOULD BE A MAXIMUM OF 6.0 FEET FROM THE PIPE ENDS.
2. THE INTERVALS BETWEEN RINGS SHOULD BE BETWEEN 10.0 FEET AND 20.0 FEET WITH A MINIMUM OF SIX LOOPS SPACED OVER A STANDARD TRIPLE RANDOM LENGTH (60 FEET).
3. THE INTERVALS MUST BE ADJUSTED TO INSURE THERE IS NO PIPE TO PIPE CONTACT. ROPE ENDS SHALL BE FUSED WITH A BLOW TORCH PRIOR TO SLIPPING THE LOOP OVER THE PIPE.

NOTES:

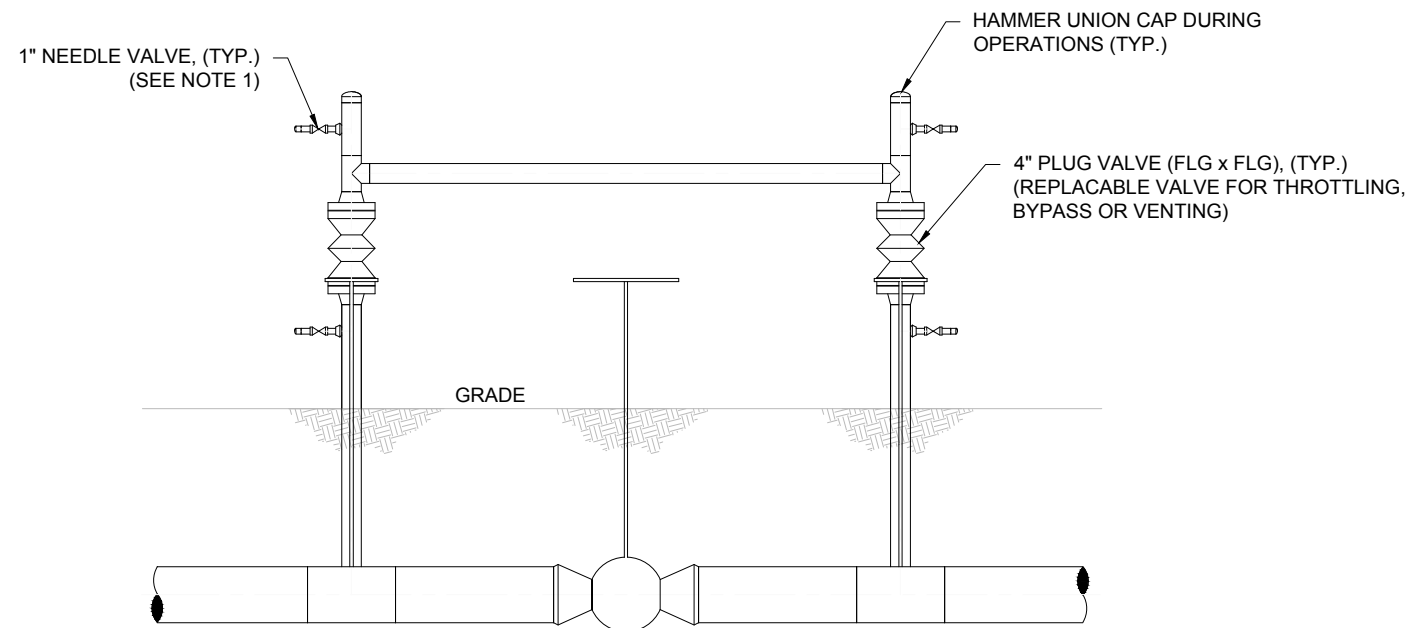
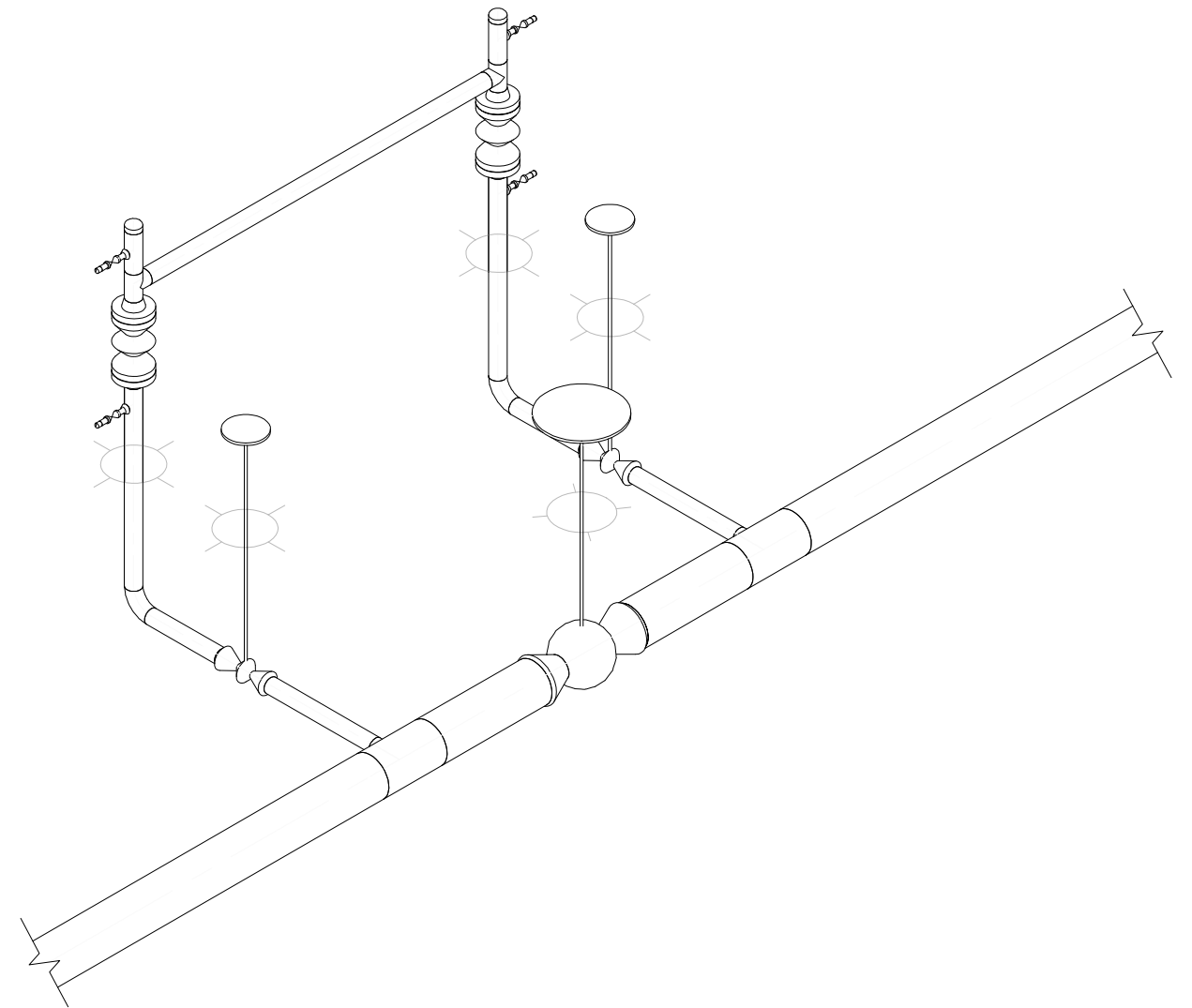
1. THE USE OF ALTERNATE METHODS FOR STOCKPILING PIPE AND/OR THE USE OF ALTERNATE MATERIALS FOR PREVENTING PIPE TO PIPE CONTACT SHALL REQUIRE WRITTEN APPROVAL OF THE COMPANY.
2. PIPE SHALL BE STOCKPILED AND SECURED (AS NECESSARY) TO PRECLUDE MOVEMENT OF PIPE.
3. ALL MATERIALS SHALL BE FURNISHED BY THE CONTRACTOR.

PIPE SIZE	'A' (NO. OF ROWS)
4"	10
6"	8
8"	6
10"	6
12"	5
16"	4

TYPICAL TEMPORARY PIPE STOCK PILES
N.T.S.

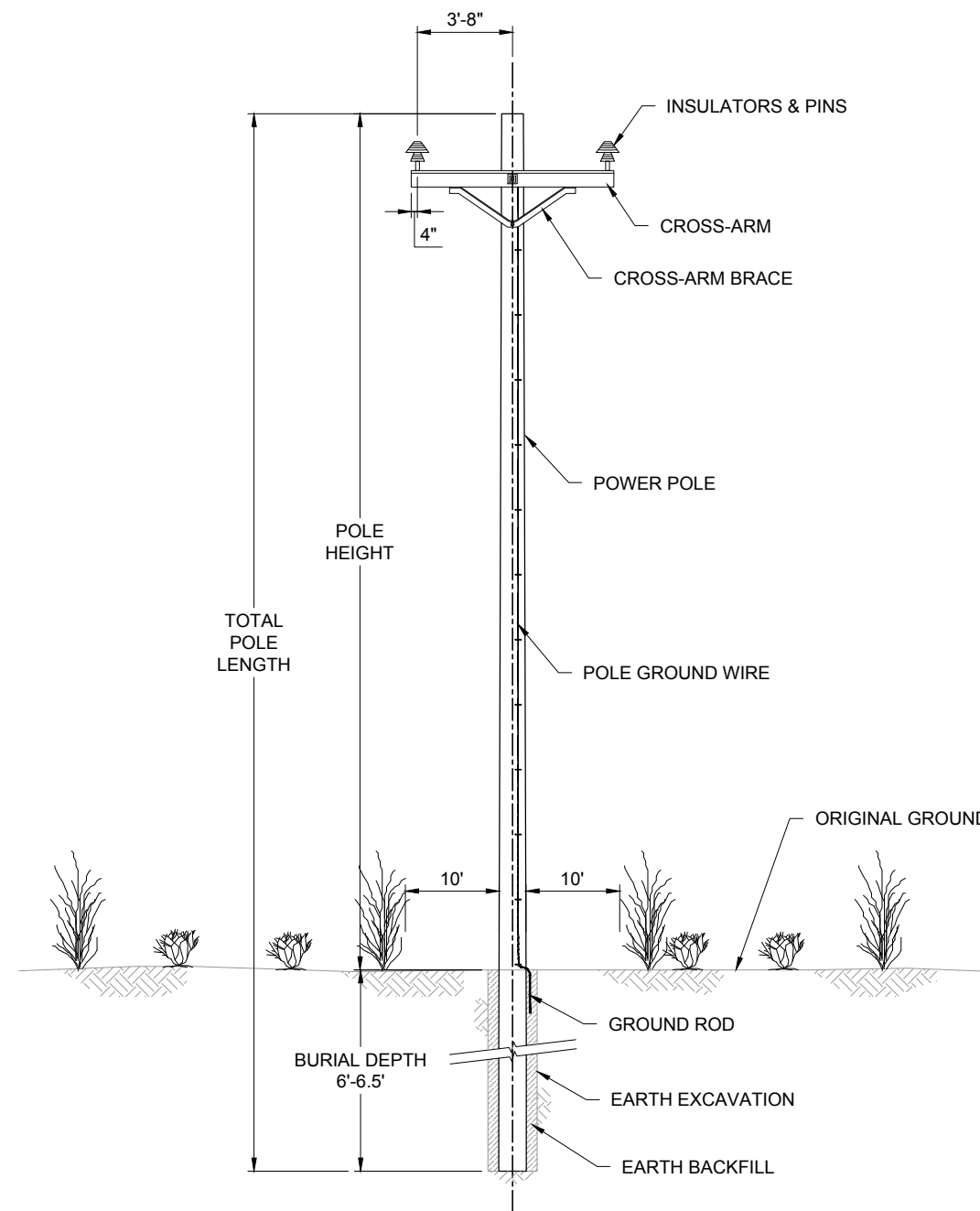


A **MAINLINE BLOCK VALVE ASSEMBLY - PLAN**
 132T SCALE 1/4" = 1'-0"



B **MAINLINE BLOCK VALVE ASSEMBLY - ELEVATION**
 132T SCALE 1/4" = 1'-0"

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01M-DTVA-02.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		MAINLINE BLOCK VALVE ASSEMBLY	
	SCALE: AS SHOWN		DATE: 8/31/2015		FIGURE NO. PA-132T	FILE NO. POA-1995-120



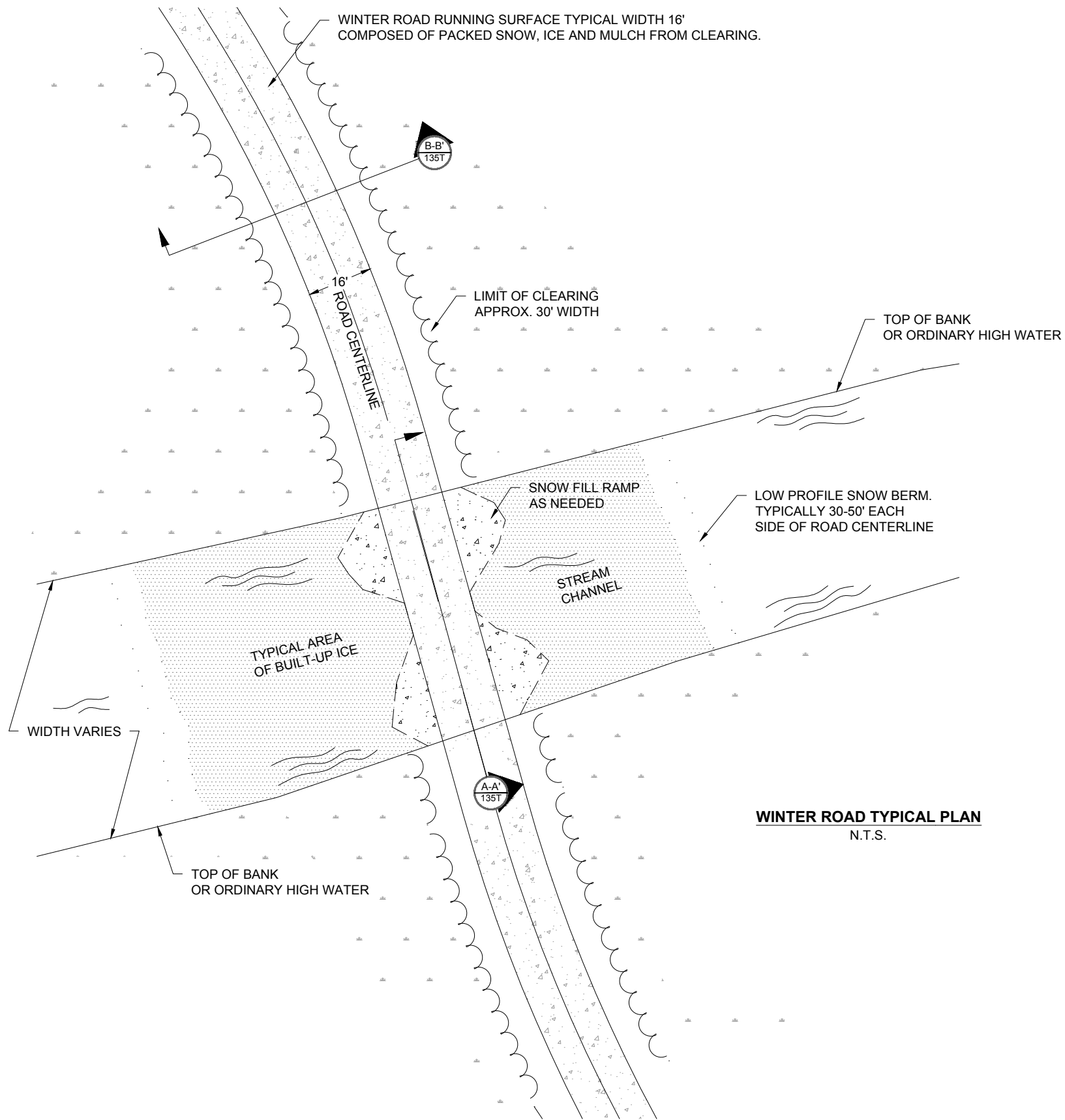
NOTES:

1. CLEARING LIMITS TO BE MIN. 10' EACH SIDE OF POWER POLE.
2. MULCH AND ORGANIC DEBRIS FROM CLEARING TO REMAIN ON GROUND SURFACE.
3. SOIL NOT TO BE DISTURBED EXCEPT AT SPECIFIC LOCATIONS AS PERMITTED.
4. DIMENSIONS ARE APPROXIMATE.

POWERPOLE SECTION
N.T.S.

A
133T

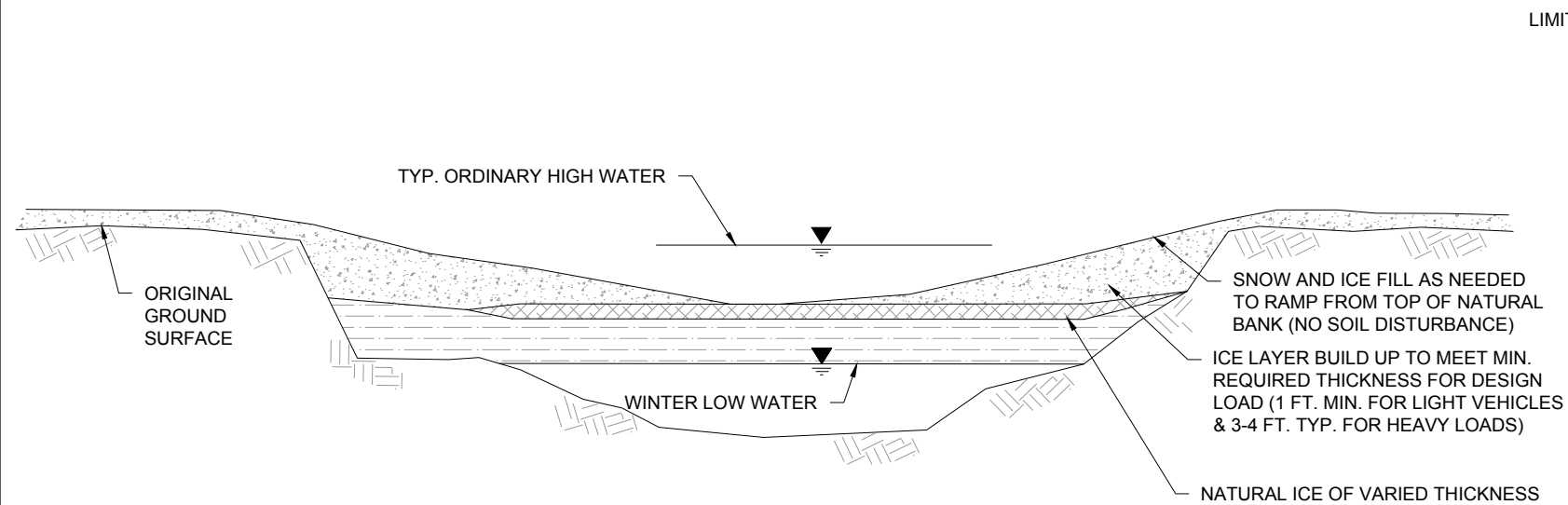
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P09E-DT-EE_01.dwg (BAKER) SEP 2014		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		POWERLINE TYPICAL POLE CLEARING LIMITS DETAIL	
			SCALE: AS SHOWN		FIGURE NO. PA-133T	FILE NO. POA-1995-120



NOTES:

1. REFER TO CROSS SECTION DETAILS (A) & (B).
2. ICE SURFACE TO BE CLEARED OF SNOW 30-50' EACH SIDE OF ROAD CENTERLINE TO AUGMENT ICE THICKENING.
3. CLEAN SNOW FOR FILL MAY BE ACCUMULATED FROM NATURAL OPEN AREAS NEAR CROSSING SITE AND ICE SURFACE.
4. TO THE EXTENT POSSIBLE, CROSSING TO BE ORIENTED PERPENDICULAR TO ACTIVE CHANNEL.
5. WATER FOR BUILDING ICE TO BE TAKEN FROM STREAM AT CROSSING LOCATION.
6. SNOW BERMS TO BE SHAPED FOR PASSAGE OF SNOWMACHINES AND SIGNAGE PLACED WARNING OF CROSSING.
7. SNOW BERMS TO DEFINE CROSSING SITE AND AID IN CONTAINING WATER DURING FLOODING TO BUILD ICE.
8. CROSSINGS SHALL BE DEVELOPED IN ACCORDANCE WITH STATE OF ALASKA FOREST RESOURCES AND PRACTICES REGULATIONS AS THEY ADDRESS WINTER ROADS/TRAILS AND STREAM CROSSINGS.

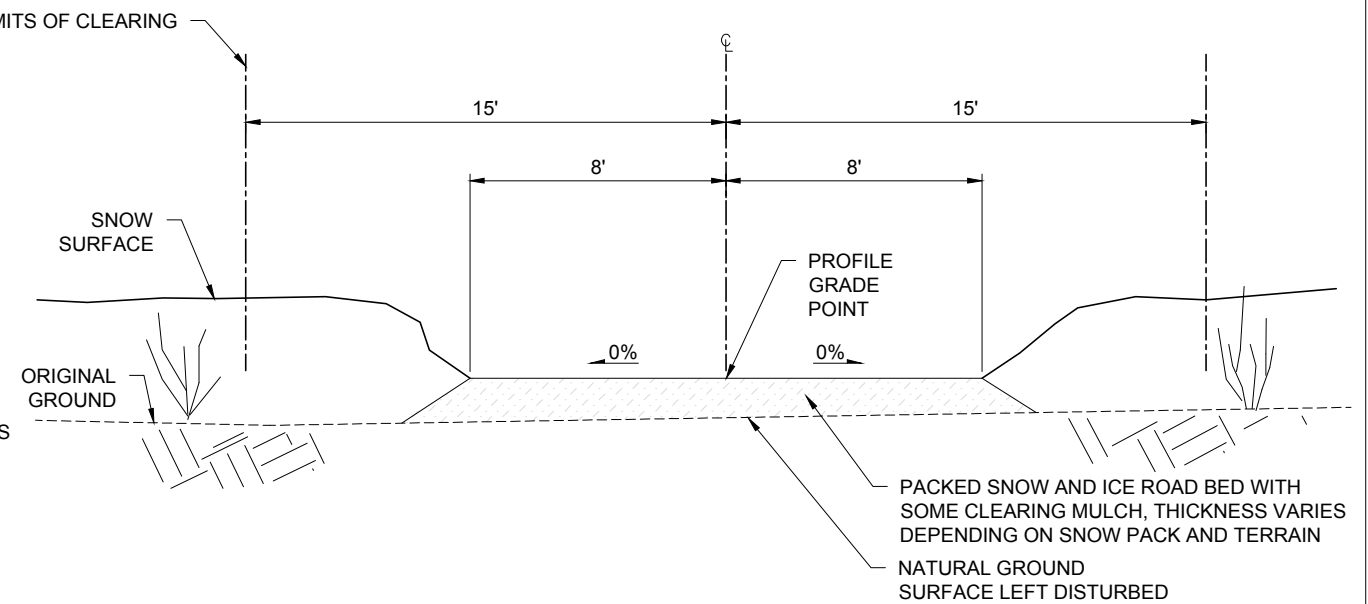
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P07C-TYSCW-01.dwg (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		WINTER ROAD TYPICAL DETAIL	
	SCALE: AS SHOWN		DATE: 9/9/2015		FIGURE NO. PA-134T	FILE NO. POA-1995-120



WINTER ROAD TYPICAL STREAM CROSSING SECTION A-A'
 (A-A') 134T N.T.S.

NOTES:

BEFORE DEVELOPMENT, ALL CROSSING LOCATIONS SHALL BE TESTED FOR ICE THICKNESS, WATER DEPTH AND EXTENT OF GROUNDED ICE. CLEAN SNOW FOR RAMP CONSTRUCTION MAY BE GATHERED FROM OPEN AREAS ADJACENT TO THE CROSSING SITE AND TRAIL. CROSSINGS SHALL BE DEVELOPED IN ACCORDANCE WITH STATE OF ALASKA FOREST RESOURCES AND PRACTICES REGULATIONS AS THEY ADDRESS WINTER ROADS/TRAILS AND STREAM CROSSINGS. ALL CROSSINGS SHALL BE ASSESSED BY A QUALIFIED ENGINEER AND APPROVED FOR USE.

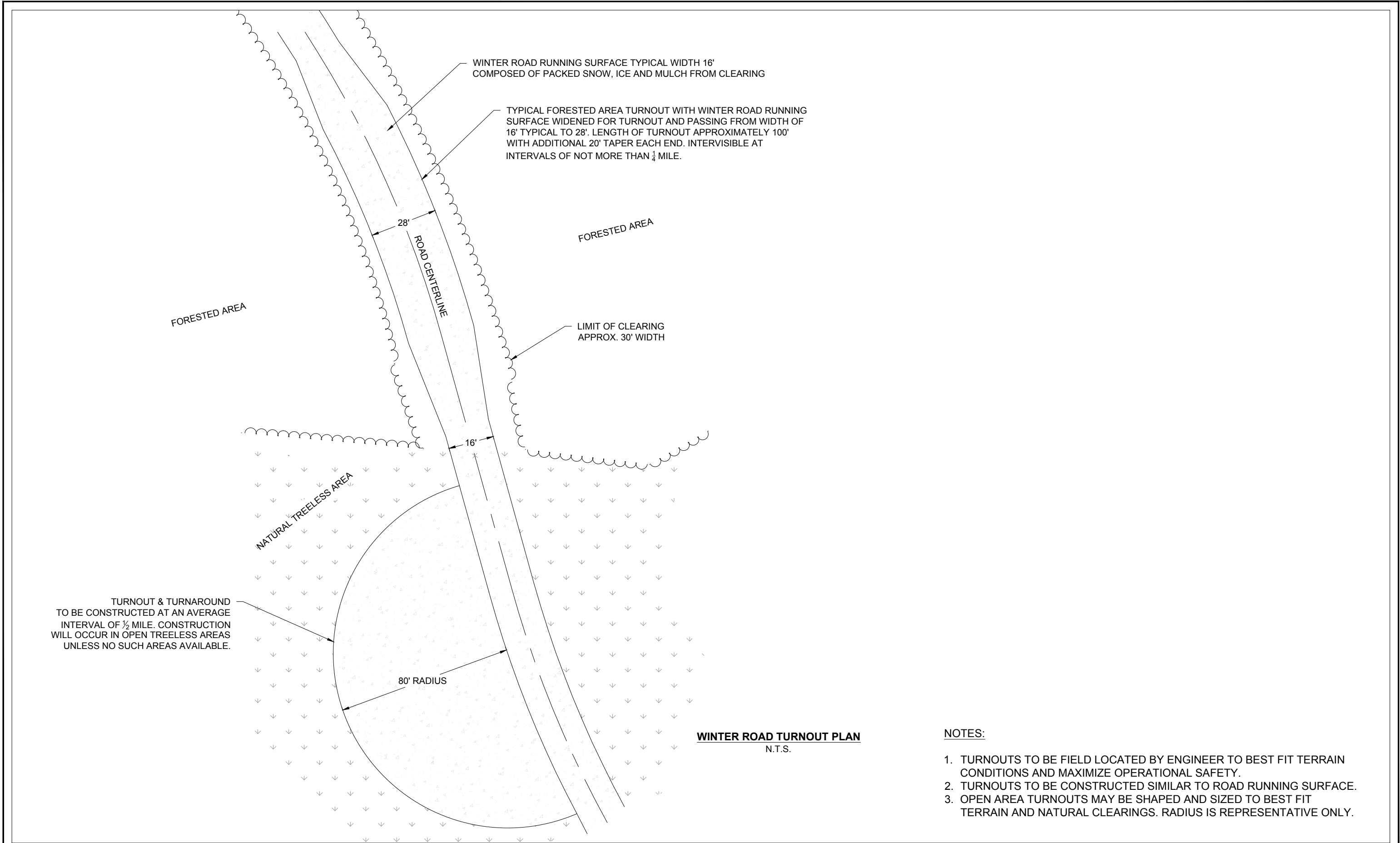


WINTER ROAD TYPICAL SECTION B-B'
 (A-A') 134T N.T.S.

NOTES:

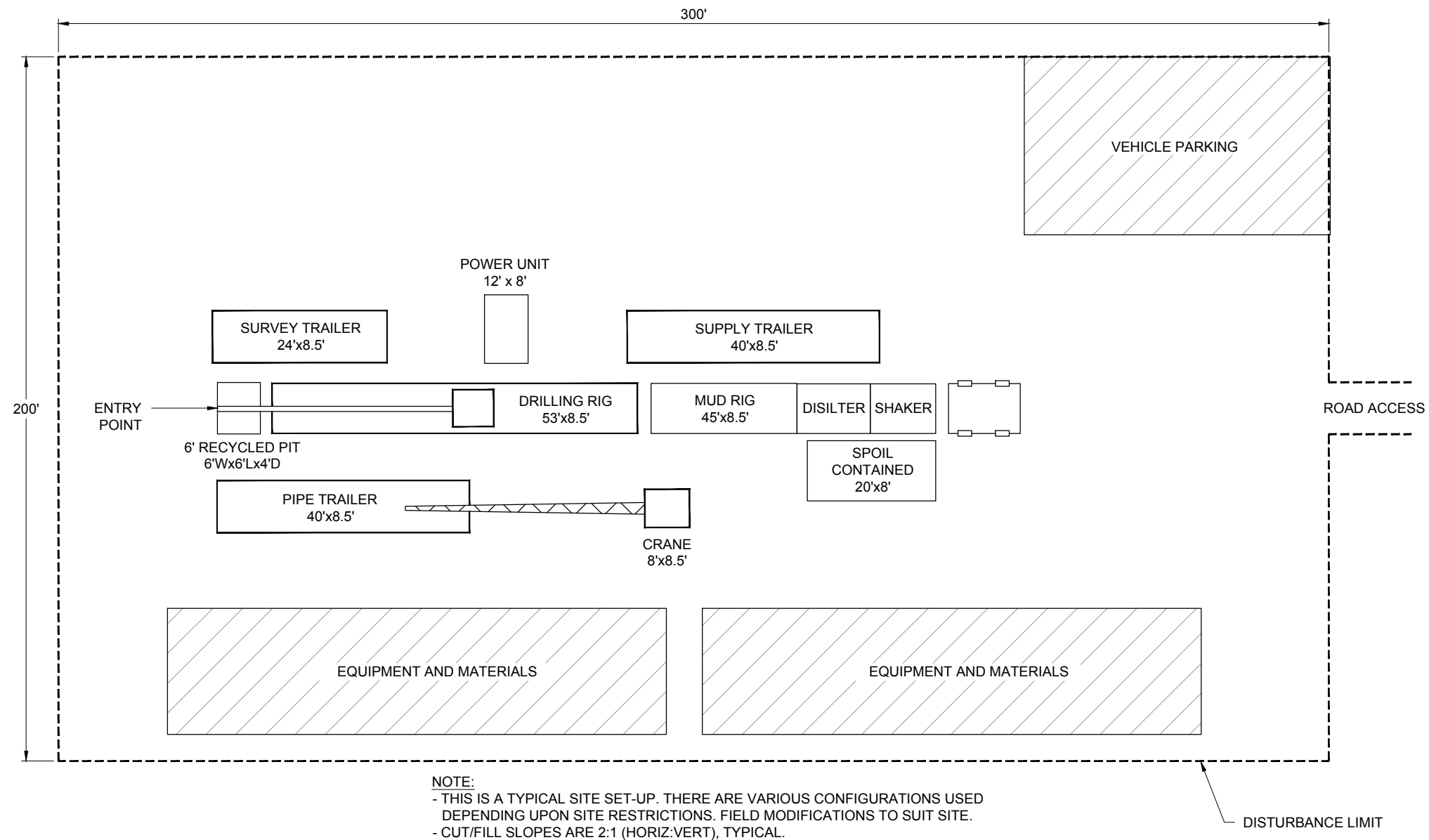
1. CLEARING LIMITS TO BE MIN. 15' EACH SIDE OF CENTERLINE OR MAX. 30' TOTAL WIDTH.
2. MULCH AND ORGANIC DEBRIS FROM CLEARING TO REMAIN ON GROUND SURFACE.
3. DEPTH OF PACKED SNOW AND ICE FOR RUNNING SURFACE WILL VARY.
4. SOIL NOT TO BE DISTURBED EXCEPT AT SPECIFIC LOCATIONS AS PERMITTED.
5. ADD TURNOUT LANE AT LOCATIONS DETERMINED BY ENGINEER. SURFACE WIDTH INCREASED TO 28' FOR TURNOUT. (APPROX. ONE PER 1/4 MILE).

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P07C-TYSCW-02.dwg (BAKER) OCT 2013; P07C-TYSCW-03.dwg (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		WINTER ROAD TYPICAL DETAIL	
	SCALE: AS SHOWN		DATE: 9/9/2015		FIGURE NO. PA-135T	FILE NO. POA-1995-120



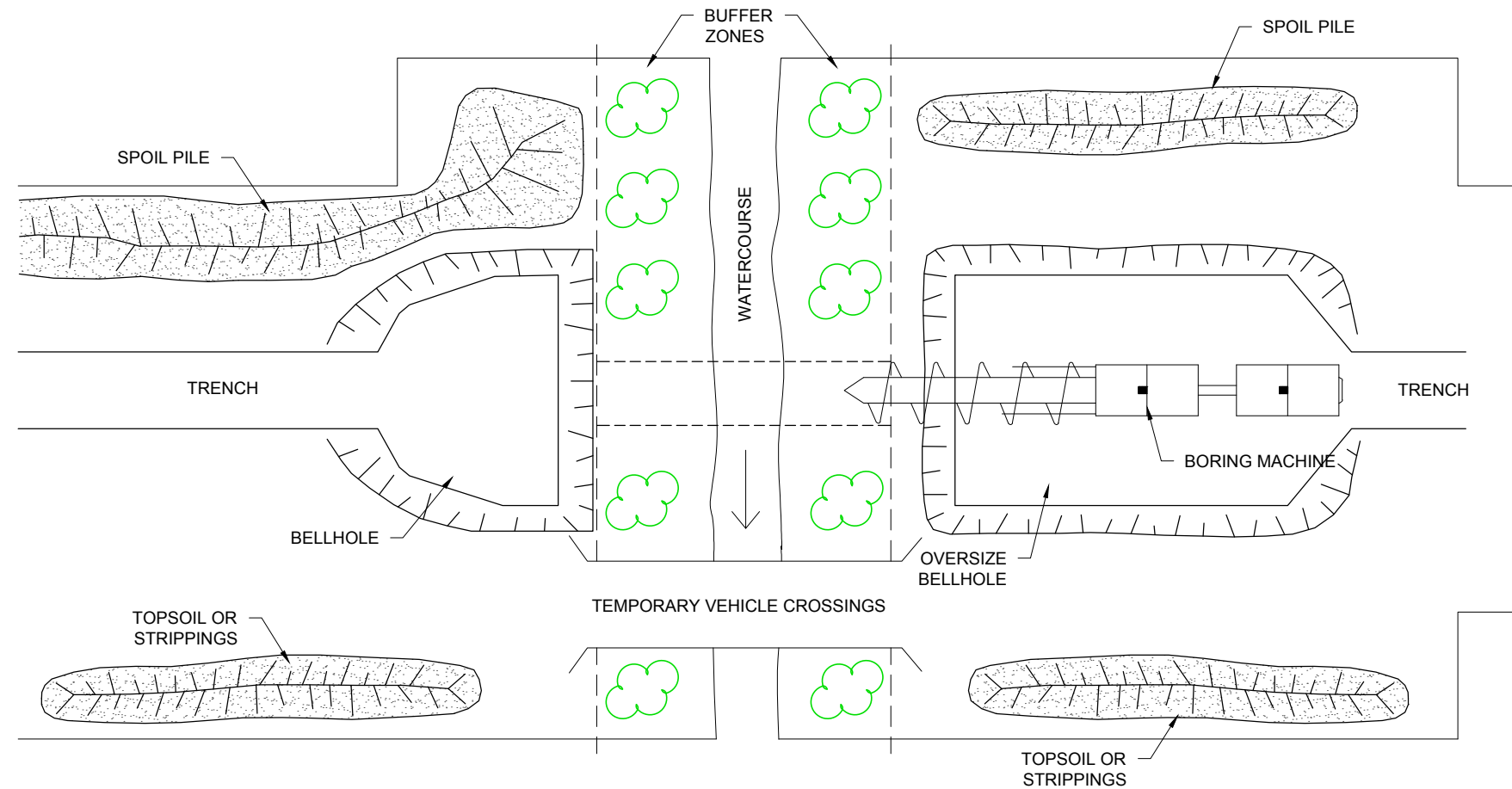
- NOTES:**
- 1. TURNOUTS TO BE FIELD LOCATED BY ENGINEER TO BEST FIT TERRAIN CONDITIONS AND MAXIMIZE OPERATIONAL SAFETY.
 - 2. TURNOUTS TO BE CONSTRUCTED SIMILAR TO ROAD RUNNING SURFACE.
 - 3. OPEN AREA TURNOUTS MAY BE SHAPED AND SIZED TO BEST FIT TERRAIN AND NATURAL CLEARINGS. RADIUS IS REPRESENTATIVE ONLY.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P07C-TYTOW-01.dwg (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		WINTER ROAD TURNOUT DETAIL	
			SCALE: AS SHOWN		FIGURE NO. PA-136T	FILE NO. POA-1995-120

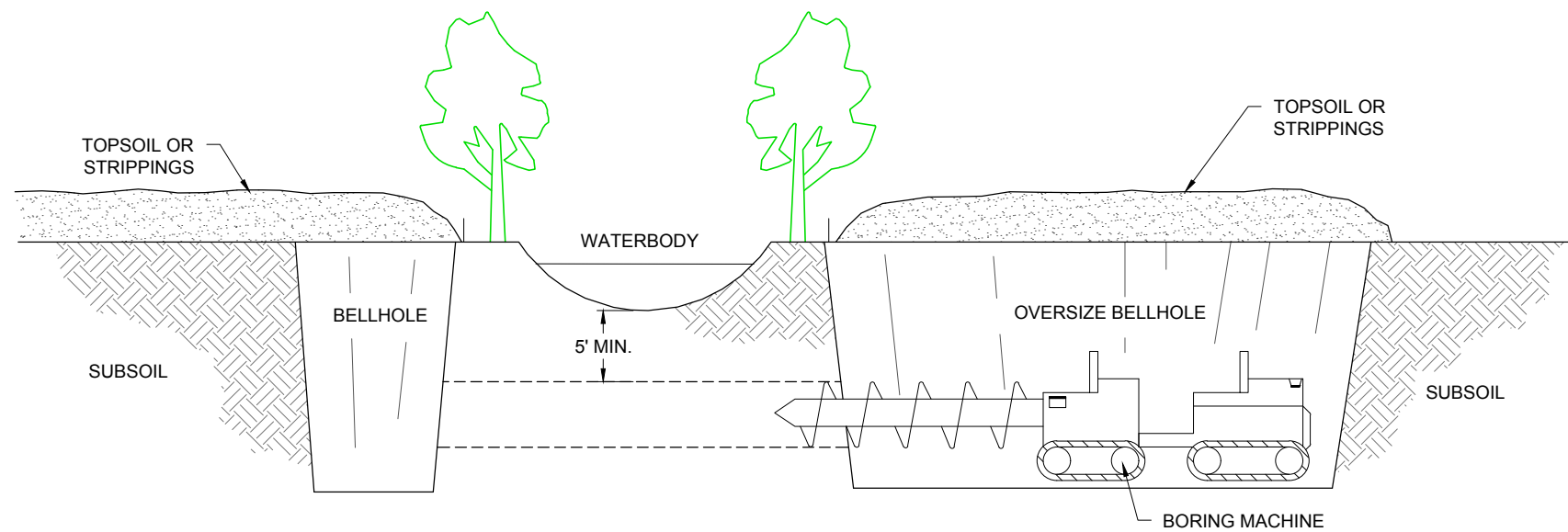


TYPICAL HDD ENTRY SITE EQUIPMENT LAYOUT
N.T.S.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P04Q-SPHD-01.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL HDD ENTRY SITE EQUIPMENT LAYOUT	
	SCALE: AS SHOWN		DATE: 10/19/2015		FIGURE NO. PA-137T	FILE NO. POA-1995-120

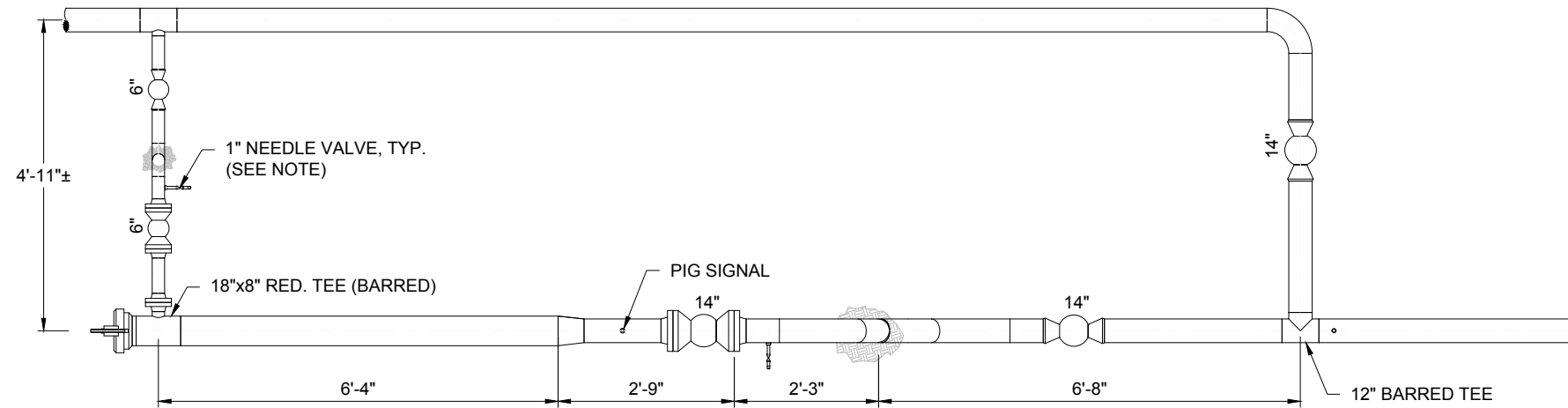


TYPICAL WATERBODY CROSSING HORIZONTAL BORE PLAN
N.T.S.



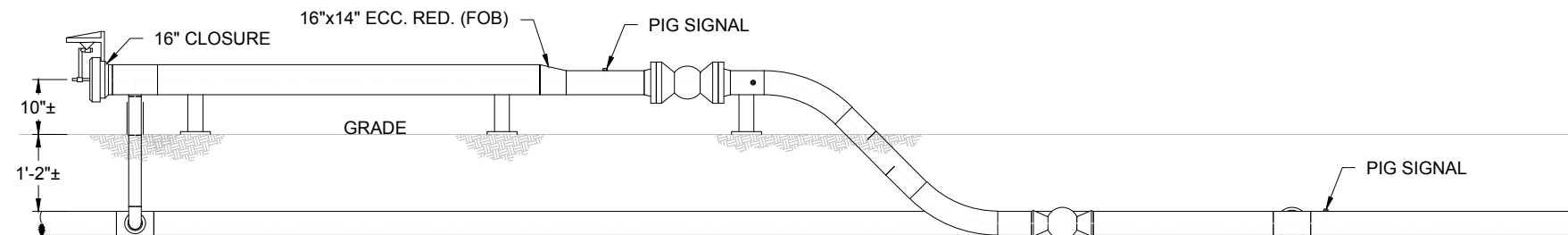
TYPICAL WATERBODY CROSSING HORIZONTAL BORE PROFILE
N.T.S.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYWC-06.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL WATERBODY CROSSING HORIZONTAL BORE	
			SCALE: AS SHOWN	DATE: 10/23/2015	FIGURE NO. PA-138T	FILE NO. POA-1995-120



TYPICAL 16"x14" PIG LAUNCHER PLAN

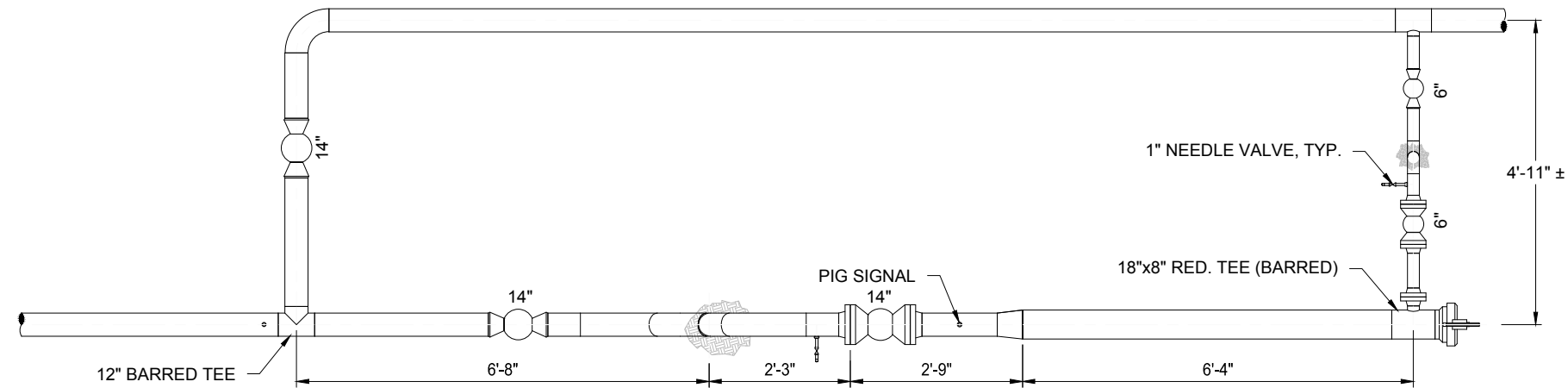
SCALE: $\frac{3}{8}" = 1'-0"$



TYPICAL 16"x14" PIG LAUNCHER ELEVATION

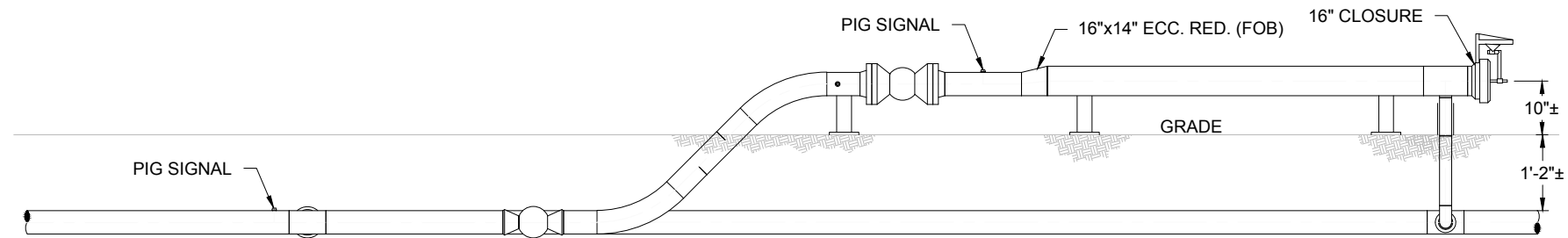
SCALE: $\frac{3}{8}" = 1'-0"$

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01M-TYPL-01.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL 16x14 PIG LAUNCHER	
	SCALE: AS SHOWN		DATE: 10/23/2015		FIGURE NO. PA-139T	FILE NO. POA-1995-120



TYPICAL 16"x14" PIG LAUNCHER PLAN

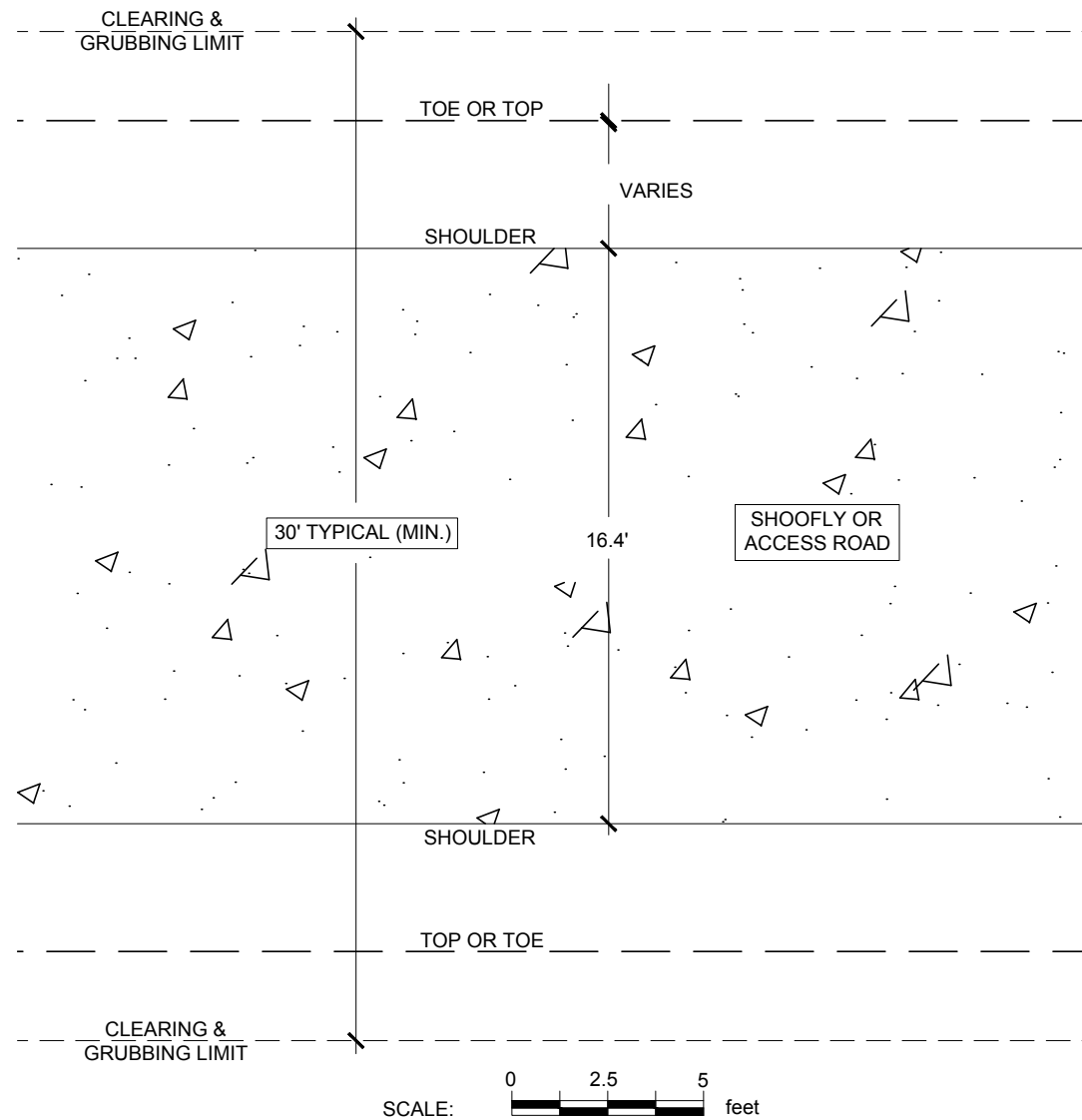
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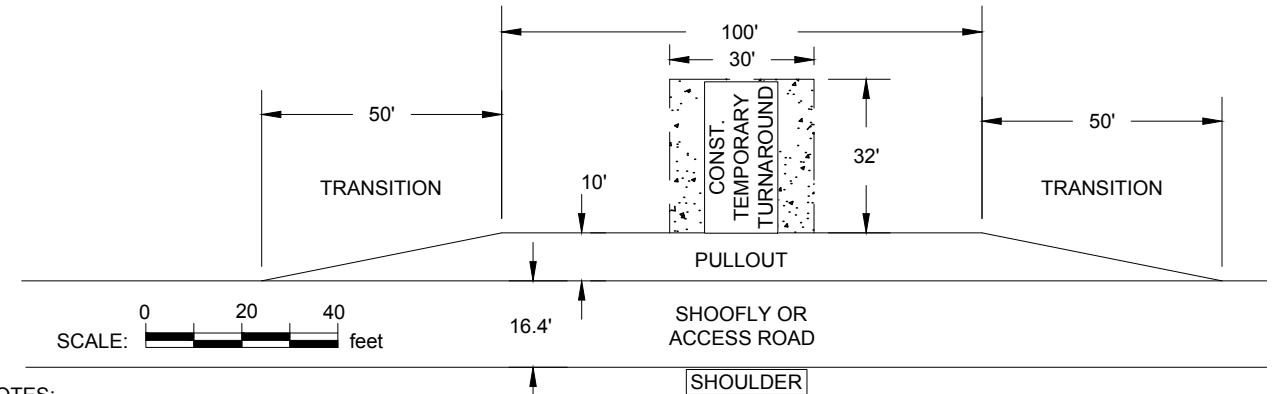
TYPICAL 16"x14" PIG LAUNCHER ELEVATION

SCALE: $\frac{3}{8}$ " = 1'-0"

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01M-TYPL-02.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL 16x14 PIG LAUNCHER	
	SCALE: AS SHOWN		DATE: 10/23/2015		FIGURE NO. PA-140T	FILE NO. POA-1995-120

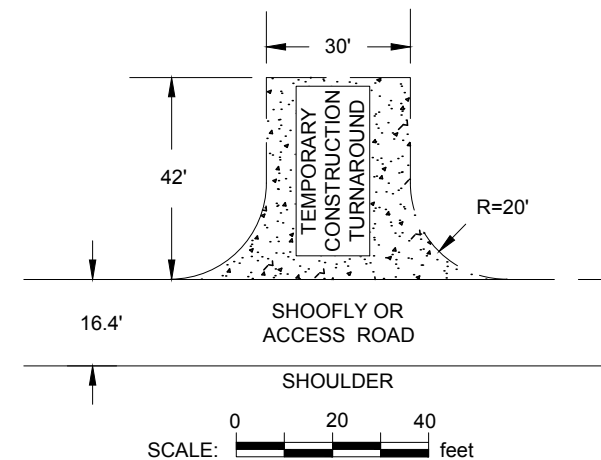


A SHOOFLY OR ACCESS ROAD PLAN VIEW
SCALE: 1" = 5'



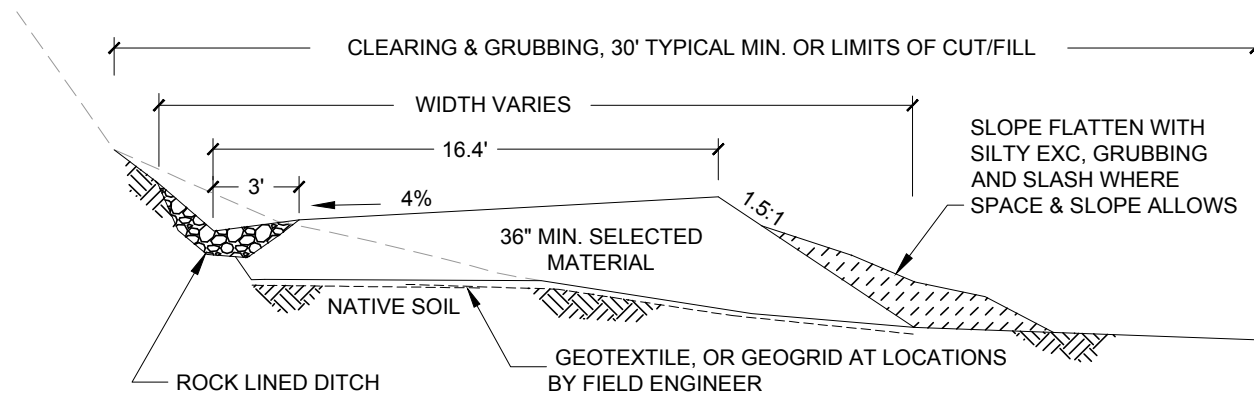
- NOTES:
- PULLOUTS WILL BE INSTALLED AS TERRAIN ALLOWS AT APPROXIMATELY 1/4 MILE INTERVALS. ADDITIONAL PULLOUTS WILL BE CONSTRUCTED WHERE HILLY TERRAIN AND LIMITED SITE DISTANCE ARE PREVALENT.
 - TEMPORARY CONSTRUCTION TURNAROUNDS WILL BE BUILT AT EACH PULLOUT AND FIELD FIT TO MINIMIZE CLEARING.
 - ROCK FILL SHALL BE PLACED IN NO GREATER THAN 12" LIFTS AND COMPACTED.
 - ROCK FILL SHALL BE UNDERLAIN WITH GEOTEXTILE WHEN DIRECTED BY PROJECT ENGINEER.
 - PULLOUTS TO MAY BE WIDENED OR LENGTHENED WHERE NATURAL CONDITION PERMIT AND AS DIRECTED BY PROJECT ENGINEER.
 - TEMP TURNAROUND GRUB ONLY LARGE STUMPS AND PLACE FILL SUFFICIENT TO SUPPORT VEHICLES, CLEAR TO TOE OF FILL OR TOP OF CUT

B PULLOUT PLAN VIEW
SCALE: 1" = 40'



- NOTES:
- FIELD FIT AT 400-500' INTERVALS TO MINIMIZE CLEARING AND EXCAVATION.
 - PLACE FILL SUFFICIENT TO SUPPORT VEHICLES. CLEAR TO TOE OF FILL OR TOP OF CUT
 - TEMPORARY CONSTRUCTION TURNAROUNDS WILL BE BUILT AT EACH PULLOUT AND FIELD FIT TO MINIMIZE CLEARING.
 - ROCK FILL SHALL BE PLACED IN NO GREATER THAN 12" LIFTS AND COMPACTED.
 - ROCK FILL SHALL BE UNDERLAIN WITH GEOTEXTILE WHEN DIRECTED BY PROJECT ENGINEER.
 - TEMP TURNAROUND GRUB ONLY LARGE STUMPS AND PLACE FILL SUFFICIENT TO SUPPORT VEHICLES, CLEAR TO TOE OF FILL OR TOP OF CUT

C TEMPORARY CONSTRUCTION TURNAROUND
SCALE 1" = 40'

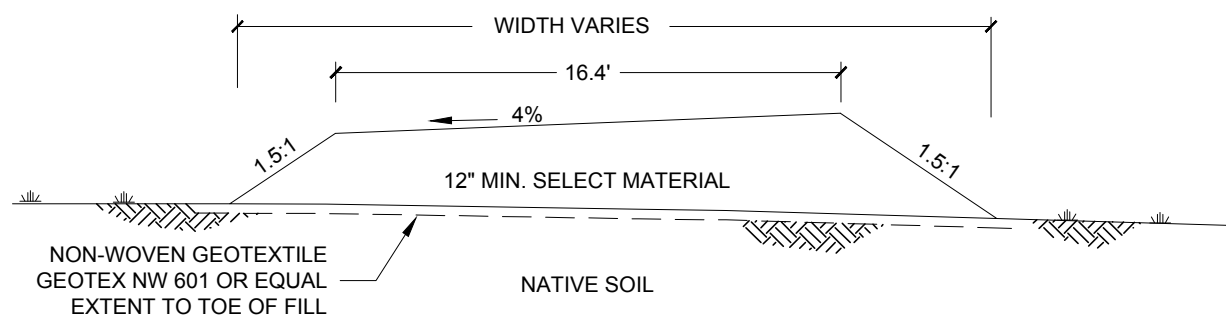


NOTES:

1. MAX ROAD CLEARING WIDTH IS TOP OF CUT OR TOE OF FILL. IN NEARLY LEVEL TERRAIN, REDUCE CLEARING WIDTH TO 30 FT.
2. CUT SLOPES WILL VARY DEPENDING ON SOIL OR ROCK TYPE AND CHARACTER. MIN 0.25:1.
3. FILL SHALL BE UNDERLAIN WITH GEOTEXTILE WHERE SOFT UNDERLYING SOILS ARE ENCOUNTERED.
4. RESERVE TOPSOIL AND ORGANIC MATERIAL FOR STABILIZATION AND SEEDING ON CUT SLOPES.
5. CROSS DRAINS SHALL BE ARMORED WATER BARS OR CULVERTS INSTALLED AT LOCATIONS DETERMINED BY FIELD ENGINEER.

**SHOOFLY OR ACCESS ROAD TYPICAL SECTION
VARIABLE TERRAIN (CUT/FILL)**

A
142T
N.T.S.

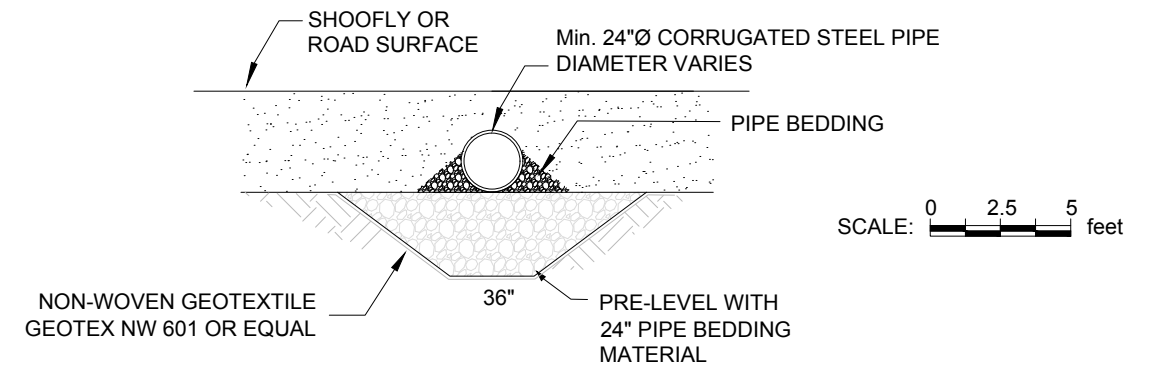


NOTES:

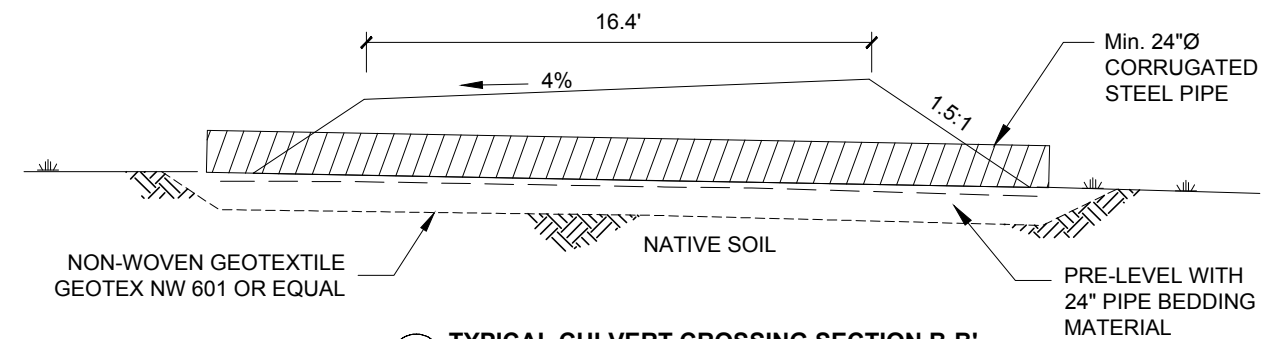
1. "SELECT MATERIAL" TO BE APPROVED GRANULAR SOIL
2. QUARRY ROCK FILL SHALL BE UNDERLAIN WITH NON-WOVEN GEOTEXTILE, GEOTEX NW 601 OR EQUAL.
3. IN WETLAND AREAS GEOGRID, BX 1100 OR EQUAL, MAY BE USED TO STABILIZE FILL AS DETERMINED BY THE ENGINEER.
4. IN WETLAND AREAS, CONTRACTOR MAY NOT PLACE FILL, REMOVE NATIVE MATERIAL, OR RUN EQUIPMENT OUTSIDE DESIGNATED CONSTRUCTION ZONE AS MARKED IN FIELD BY THE ENGINEER.
5. CLEARING LIMITS ARE TOP OF CUT AND TOE OF FILL.
6. DEPTH OF FILL TO VARY DEPENDIG ON SUBGRADE CONDITIONS AND SOIL CHARACTERISTICS. ENGINEER TO FIELD SPECIFY.

**SHOOFLY OR ACCESS ROAD TYPICAL SECTION
LEVEL TERRAIN (FILL)**

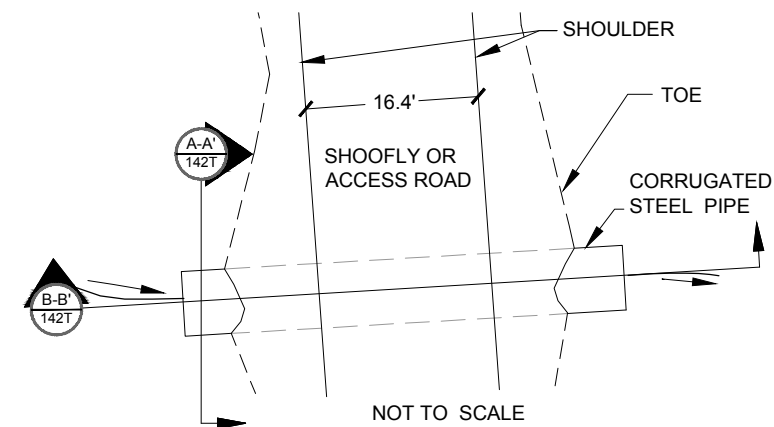
B
142T
N.T.S.



TYPICAL CULVERT CROSSING SECTION A-A'
N.T.S.



TYPICAL CULVERT CROSSING SECTION B-B'
N.T.S.



1. ALL CULVERTS SHALL BE CORRUGATED STEEL AS APPROVED BY PROJECT ENGINEER.
2. PRE-LEVEL WITH 24" OF COARSE ROCK PIPE BEDDING MATERIAL AND ENSURE MIN. 12" OF COVER
3. CROSS CULVERTS IN UPLANDS SHALL BE INSTALLED WITH AN ENLARGED (BELL HOLE) DITCH SECTION ON THE INLET END. FILL TO 6" DEPTH WITH DITCH LINER MATERIAL.
4. CULVERT GRADIENT TO MATCHED NATURAL DRAINAGE GRADIENT OR AS SPECIFIED BY PROJECT ENGINEER (MIN. 2%)
5. CROSS CULVERTS IN UPLANDS SHALL BE INSTALLED WITH AN ENLARGED (BELL HOLE) DITCH SECTION ON THE INLET END. FILL TO 6" DEPTH WITH DITCH LINER MATERIAL.
6. CULVERT DIA. AND LOCATION PER SUMMARY PROVIDED BY PROJECT ENGINEER

TYPICAL CULVERT CROSSING PLAN
N.T.S.

Associated Engineering Drawings

ShooflyTypicals_SheetLayout_toDG.dwg (RECONN) OCT 2014

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

DRAWING TITLE:

SHOOFLY TYPICAL SECTIONS

SCALE: AS SHOWN

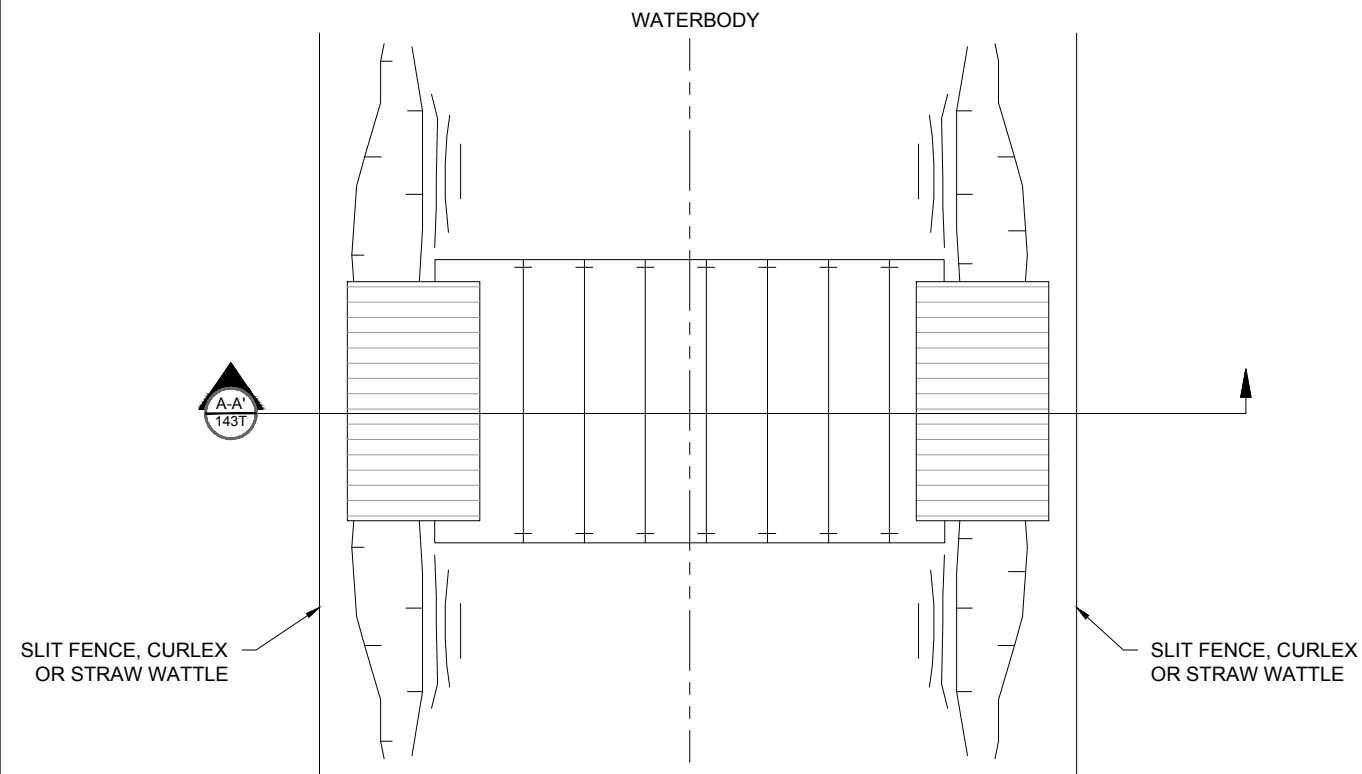
DATE: 9/11/2015

FIGURE NO.

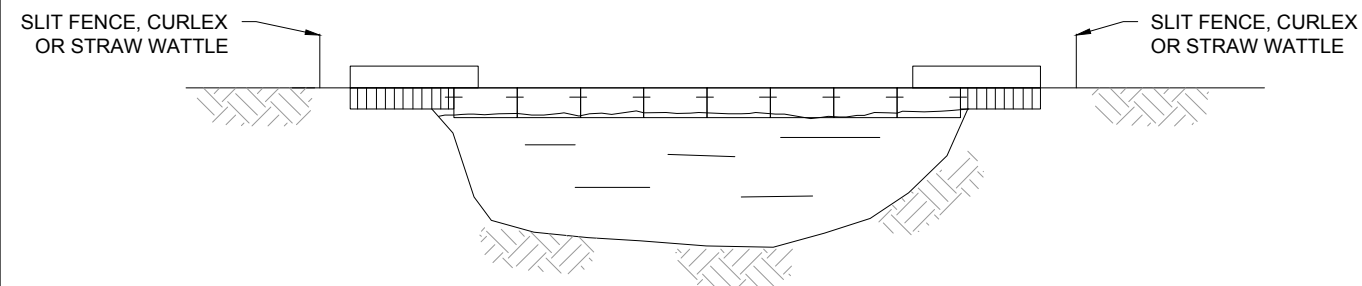
PA-142T

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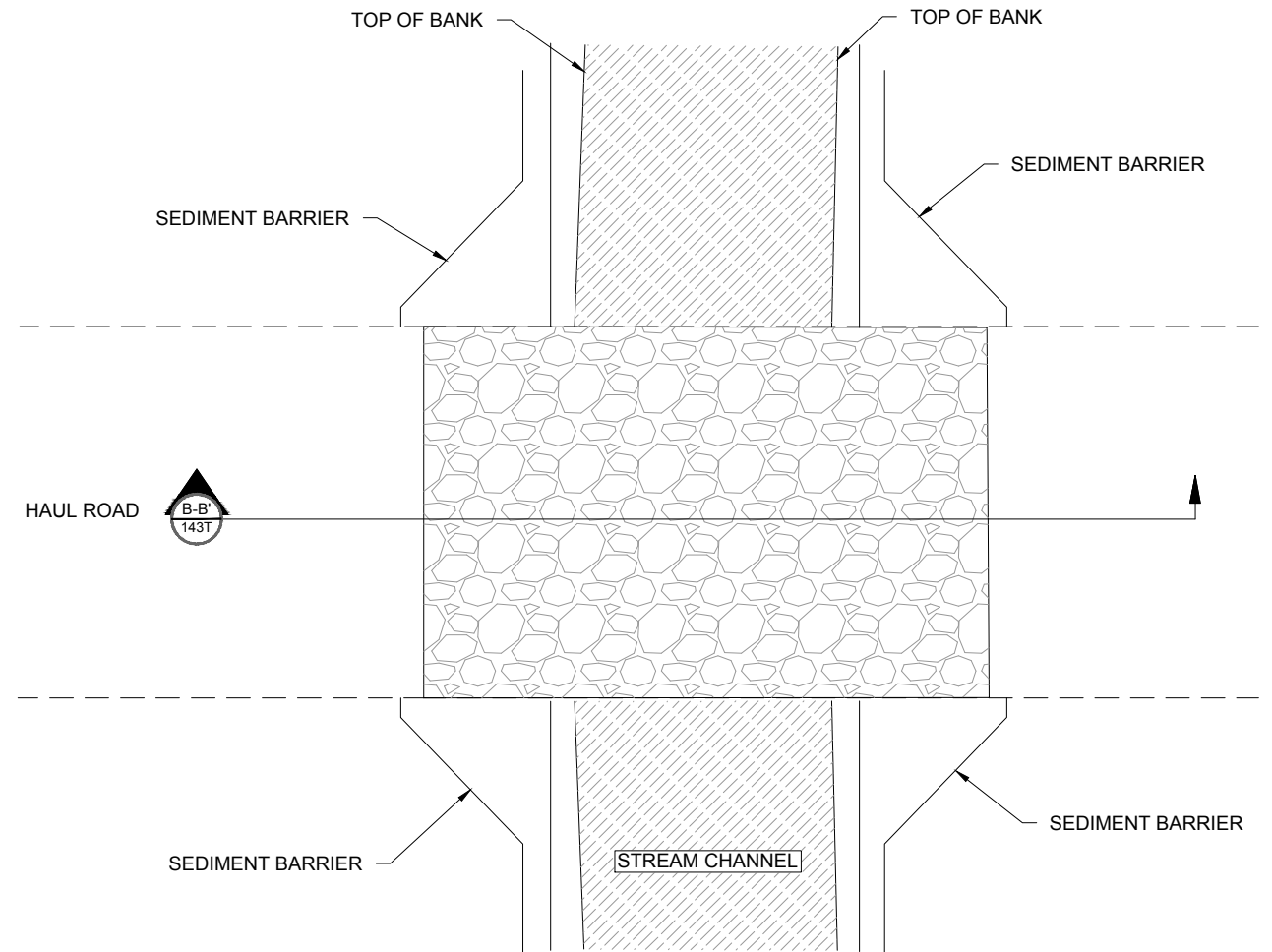
POA-1995-120



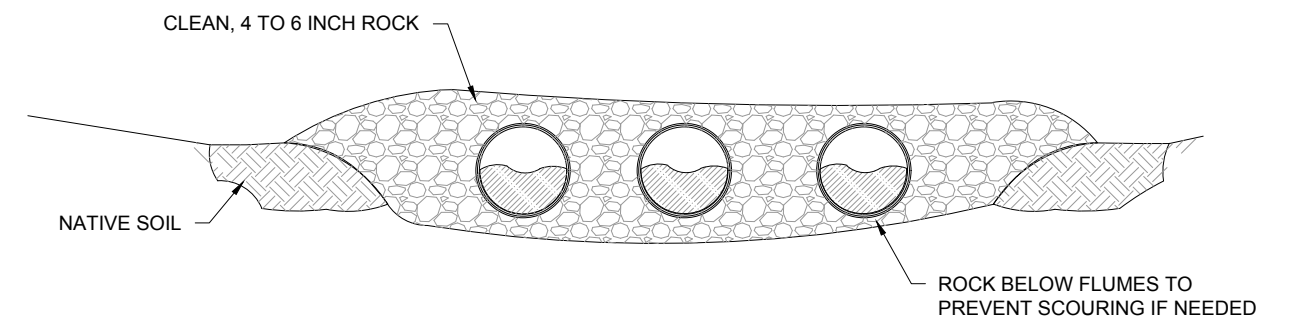
TYPICAL FLEX-FLOAT BRIDGE PLAN
N.T.S.



TYPICAL FLEX-FLOAT BRIDGE SECTION A-A'
N.T.S.



TYPICAL ROCK FLUME BRIDGE PLAN
N.T.S.



TYPICAL ROCK FLUME BRIDGE SECTION B-B'
N.T.S.

BRIDGE DETAIL NOTES:

1. DESIGN AND MAINTAIN BRIDGE TO WITHSTAND AND PASS THE HIGHEST ANTICIPATED FLOW THAT MAY OCCUR WHILE THE BRIDGE IS IN PLACE. CULVERTS MUST BE ALIGNED TO PREVENT BANK EROSION OR STREAM BED SCOUR.
2. INSPECT BRIDGE ELEVATION SO BRIDGE REMAINS SUPPORTED ABOVE HIGH BANK, AND DOES NOT SINK INTO BANK. ADDITIONAL SUPPORT MUST BE ADDED ON TOP OF BANK AND UNDER SPAN IF INITIAL SUPPORT STARTS TO SETTLE. ALL BRIDGES MUST BE ANCHORED FOR STABILITY.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED. CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. SILT FENCE OR SANDBAGS MAY BE USED INTERCHANGEABLY.
4. BRIDGE DECKS WILL BE KEPT FREE OF SOIL.
5. EQUIPMENT BRIDGES WILL CONSIST OF ONE OF THE FOLLOWING: CLEAN ROCK PLACED OVER FLUME PIPES; PREFABRICATED CONSTRUCTION MATS; OR FLEX-FLOAT OR OTHER TEMPORARY BRIDGING, SUCH AS BAILEY BRIDGES.
6. REMOVE EQUIPMENT BRIDGES AND ASSOCIATED MATERIAL AS SOON AS POSSIBLE. RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.
7. DISPOSE OF ANY ROCK AS DIRECTED.

Associated Engineering Drawings

P01C-TYBD-01.DWG, P01C-TYBD-02.DWG, P01C-TYBD-03.DWG
(BAKER) OCT 2013

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

DRAWING TITLE:

**TYPICAL FLEX-FLOAT AND ROCK
FLUME BRIDGE DETAIL**

FIGURE NO.

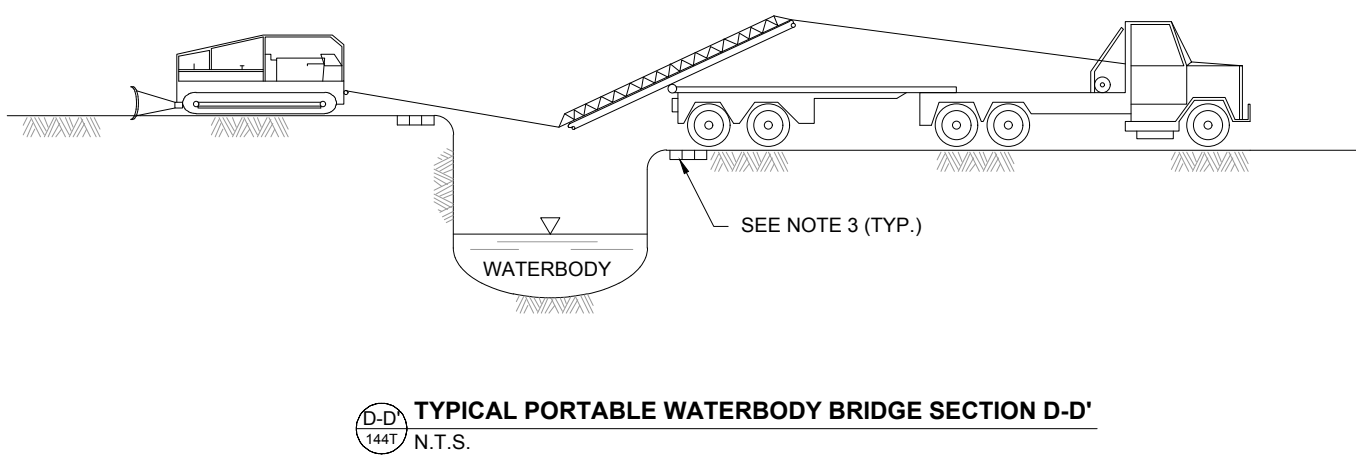
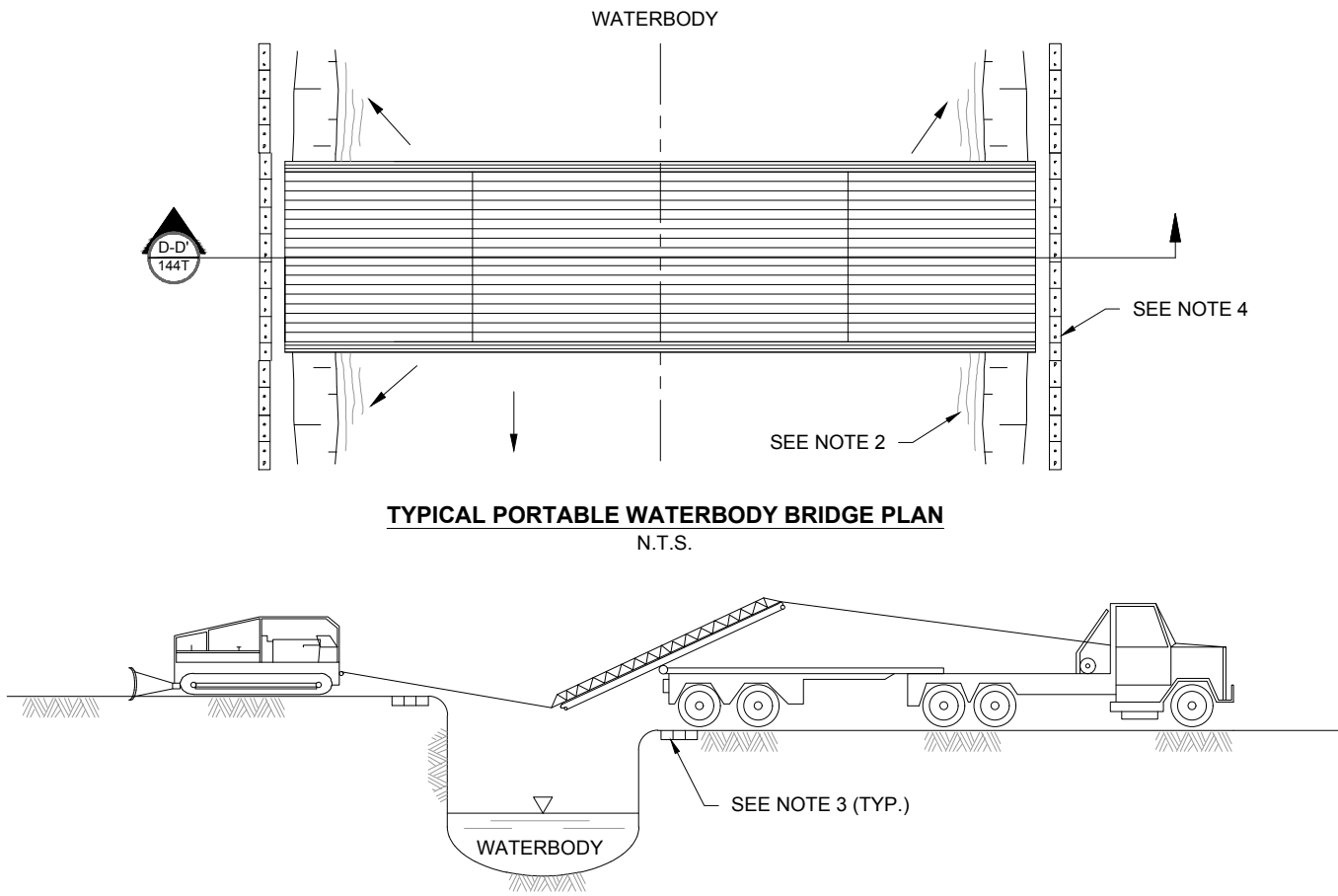
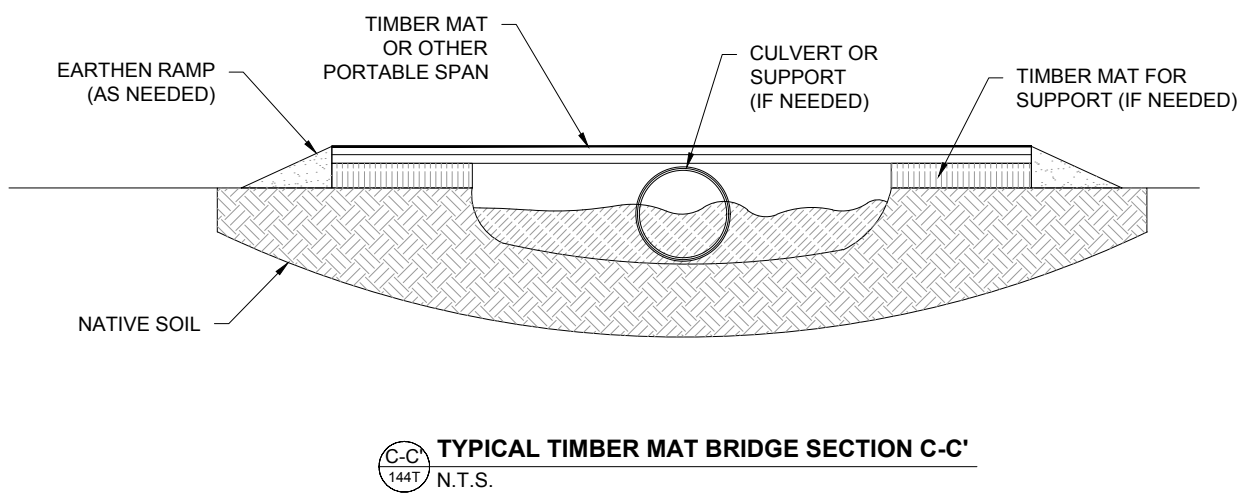
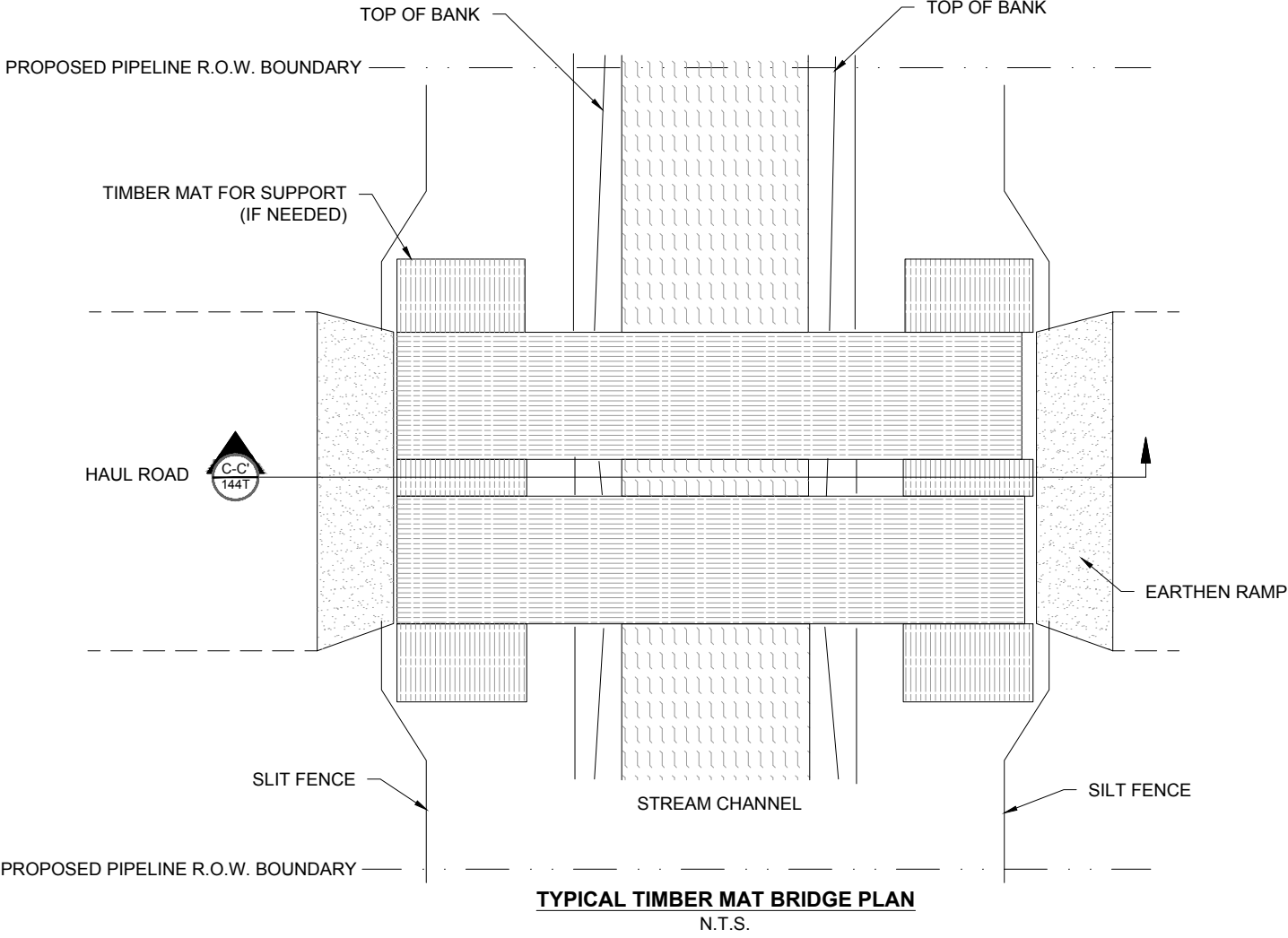
PA-143T

FILE NO.

POA-1995-120

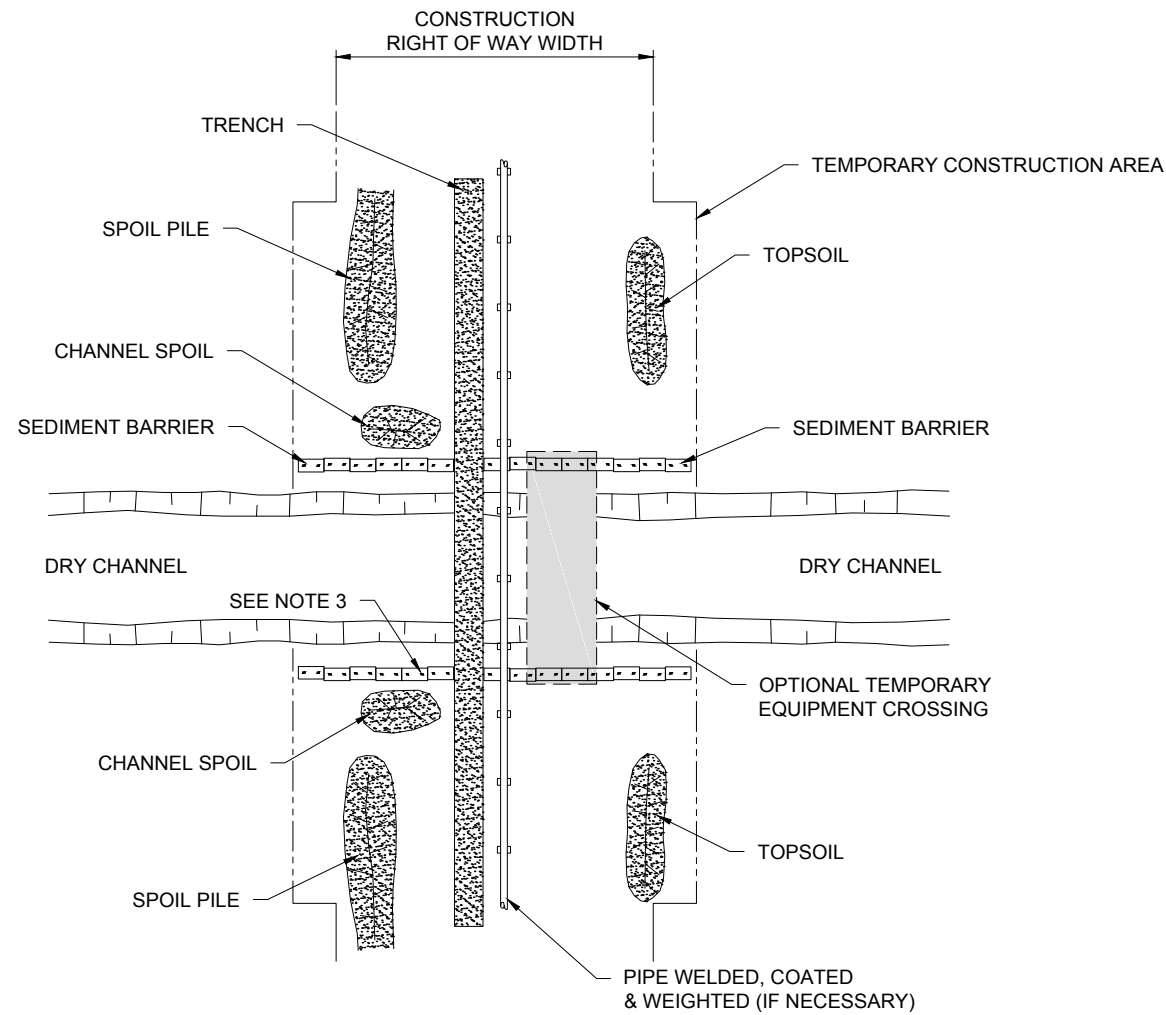
SCALE: AS SHOWN

DATE: 9/30/2015



- BRIDGE DETAIL NOTES:**
1. DESIGN AND MAINTAIN BRIDGE TO WITHSTAND AND PASS THE HIGHEST ANTICIPATED FLOW THAT MAY OCCUR WHILE THE BRIDGE IS IN PLACE. CULVERTS MUST BE ALIGNED TO PREVENT BANK EROSION OR STREAM BED SCOUR.
 2. INSPECT BRIDGE ELEVATION SO BRIDGE REMAINS SUPPORTED ABOVE HIGH BANK, AND DOES NOT SINK INTO BANK. ADDITIONAL SUPPORT MUST BE ADDED ON TOP OF BANK AND UNDER SPAN IF INITIAL SUPPORT STARTS TO SETTLE. ALL BRIDGES MUST BE ANCHORED FOR STABILITY.
 3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED. CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. SILT FENCE OR SANDBAGS MAY BE USED INTERCHANGEABLY.
 4. BRIDGE DECKS WILL BE KEPT FREE OF SOIL.
 5. EQUIPMENT BRIDGES WILL CONSIST OF ONE OF THE FOLLOWING: CLEAN ROCK PLACED OVER FLUME PIPES; PREFABRICATED CONSTRUCTION MATS; OR FLEX-FLOAT OR OTHER TEMPORARY BRIDGING, SUCH AS BAILEY BRIDGES.
 6. REMOVE EQUIPMENT BRIDGES AND ASSOCIATED MATERIAL AS SOON AS POSSIBLE. RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.
 7. DISPOSE OF ANY ROCK AS DIRECTED.

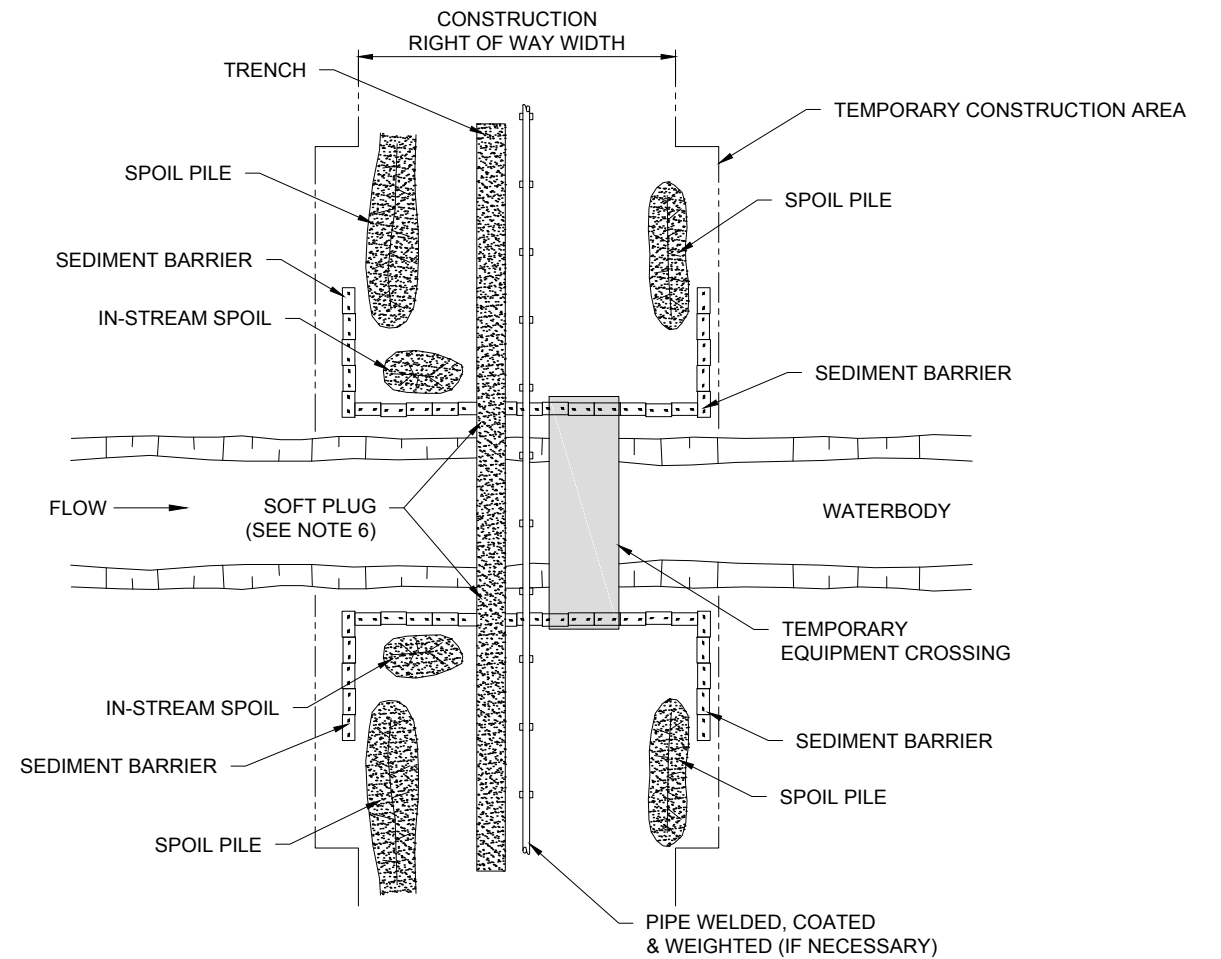
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYBD-01.DWG, P01C-TYBD-04.DWG, P01C-TYBD-05.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL TIMBER MAT AND PORTABLE WATERBODY BRIDGE DETAIL	
			SCALE: AS SHOWN		FIGURE NO. PA-144T	FILE NO. POA-1995-120



A
145T
TYPICAL NON-FLOWING WATERBODY CROSSING OPEN-CUT
N.T.S.

NOTES:

1. METHOD APPLIES TO CROSSING WHERE NO FLOWING WATER IS PRESENT AT THE TIME OF CROSSING.
2. CONTRACTOR MAY "MAINLINE THROUGH" THE CROSSING OR UP TO BOTH SIDES OF THE CROSSING; STRING, WELD, COAT, AND WEIGHT (IF NECESSARY), USING THE MAINLINE CREW WITH THE PIPE SKIDDED OVER THE CROSSING.
3. CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. FOLLOWING CLEARING AND GRADING AND MAINTAIN UNTIL CONSTRUCTION OF THE CROSSING. EROSION CONTROL MEASURES SHALL BE REINSTALLED IMMEDIATELY FOLLOWING BACKFILLING OF TRENCH AND STABILIZATION OF BANKS.
4. TOPSOIL AND SPOIL WILL NOT BE STOCKPILED IN THE CROSSING CHANNEL.
5. MAINTAIN STREAM FLOW THROUGHOUT CROSSING CONSTRUCTION.
6. BACKFILL WITH NATIVE MATERIAL.
7. RESTORE CROSSING CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE.
8. RESTORE CROSSING BANKS TO APPROXIMATE ORIGINAL CONDITION AND STABILIZE, AS REQUIRED.



B
145T
TYPICAL FLOWING WATERBODY CROSSING OPEN-CUT
N.T.S.

NOTES:

1. SCHEDULE CROSSING DURING LOW FLOW PERIOD IF POSSIBLE.
2. COMPLETE ALL IN-STREAM ACTIVITIES WITHIN 24 HOURS IF FEASIBLE.
3. NO REFUELING OF MOBILE EQUIPMENT WITHIN 200 FEET OF WATERBODY. REFUEL STATIONARY EQUIPMENT AS PER THE HAZARDOUS MATERIALS MANAGEMENT AND SPCCC PLAN.
4. CONSTRUCT SEDIMENT BARRIERS ALONG THE SIDES OF STOCKPILES AND ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY.
5. IN-STREAM SPOIL TO BE STORED OUT OF THE STREAM CHANNEL AND WITHIN THE CONSTRUCTION R.O.W.
6. INSTALL SOFT PLUGS AT THE EDGE OF STREAM BANKS UNTIL JUST PRIOR TO PIPE INSTALLATION TO CONTROL WATER FLOW & TRENCH SLOUGHING, IF NEEDED.
7. MAINTAIN STREAM FLOW THROUGHOUT CROSSING CONSTRUCTION.
8. BACKFILL WITH NATIVE MATERIAL.
9. RESTORE WATERBODY CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE.
10. RESTORE STREAM BANKS TO APPROXIMATE ORIGINAL CONDITION AND STABILIZE, AS REQUIRED.
11. ALL DIMENSIONS INDICATED SHALL BE DETERMINED BY ACTUAL CONSTRUCTION CONDITIONS.
12. FOLLOW REQUIREMENTS FROM THE ARMY CORPS OF ENGINEERS.
13. DRAWING DEPICTED IS SUPERSEDED BY WRITTEN STANDARD, SCOPE OF WORK OR LINE LIST.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYWC-01.DWG, P01C-TYWC-02.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL WATERBODY CROSSING DETAIL	
	SCALE: AS SHOWN		DATE: 10/19/2015		FIGURE NO. PA-145T	FILE NO. POA-1995-120