Work Variance Request Form

Groundwater Remedy Phase 1 Construction, PG&E Topock Compressor Station, Needles, California

PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT Work Variance Request #6 – Realignment of Pipeline F to Pipelines J and B

Request Prepared By: PG&E	Request Approval From: DTSC and DOI			
Date Submitted: 5/3/19	Date Approval Required: 5/15/19			
Variance Request No.: 6	Map Area: N/A			
Location: Along National Trails Highway, near I-40 bridge				
Landowner/Land Manager: PG&E/HNWR (managed by USFWS) Land Owner Parcel No: 650-161-08/650-161-19				
Current Vegetative Cover/Land Use: Minimal along Pipelines B and J, none inside TCS				
Existing Sensitive Resource? No X Yes, Specify: Palo verde plants/cacti/potential ringtail cat habitat along B/J				
Variance From:	/Procedure Response to Comments			
X Drawing Permit Condition	Other			
Detailed Description of Variance and Justification (Attach additional information if necessary):				
Attachments: Photo X Construction Drawing Aerial Photo Mark-Up Correspondence Other				
Potential Impacts of Variance:				
Air Quality Hazardous Mate	erials Aesthetic			
X Biological Resources Noise				
Soils Paleo Resources				
☐ Cultural Resources ☐ Hydrology and V	Vater Quality			

Description and Justification:

In early October 2018, PG&E conducted a geotechnical investigation along the Pipeline F alignment on the entrance road to the Topock Compressor Station (TCS) and the adjacent hill side. Based on the geotechnical results, the construction contractor (PIVOX) indicated that soldier piles and lagging would be installed for temporary shoring. Over 40 soldier piles would be installed by drilling using a 330-sized excavator or larger. A 330-sized excavator has a general width of 11 feet, and counter weight clearance of approximately 4 feet. During operation, this rig would occupy a minimum 15 to 16 feet width of the TCS entrance road for about 12 days. The paved width of the road is between 22 to 24 feet in the area of shoring (per review of the location via Google Earth).

Assuming a minimum clearance of 1 foot (which is still less than the recommended clearance) from any operating equipment, there will be approximately 5 to 8 feet of available lane width for access by TCS traffic. Large vehicles (tractor-trailers, delivery trucks, construction equipment) will likely not be able to pass by the active operation, and passenger vehicles may also not be able to pass the active operation in locations where the road narrows. Also, the excavator cannot be repositioned while soldier piles are being drilled. In sum, access to TCS will be severely restricted for about 12 days. This is not acceptable for Compressor Station operations.

Therefore, PG&E proposes to realign Pipeline F (starting from segment F3) along the approved alignment of Pipelines B and J. Construction of Pipelines F, B, and J would occur in the same alignment and at the same time. The estimated net change in the excavated soil volumes and pipelines/conduits lengths are:

- Soil disturbance: a reduction of 1,590 cubic yards.
- Linear footage of trenches: a reduction of 1,250 feet.
- Linear footage of liquid conveyance piping: an increase of 7,832 feet (because the combined length of Pipelines J and B is 1,000 feet longer than Pipeline F)
- Linear footage of electrical conduits/communication lines: an increase of 979 feet (for same reason as above).

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PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT

Work Variance Request #6 - Realignment of Pipeline F to Pipelines J and B

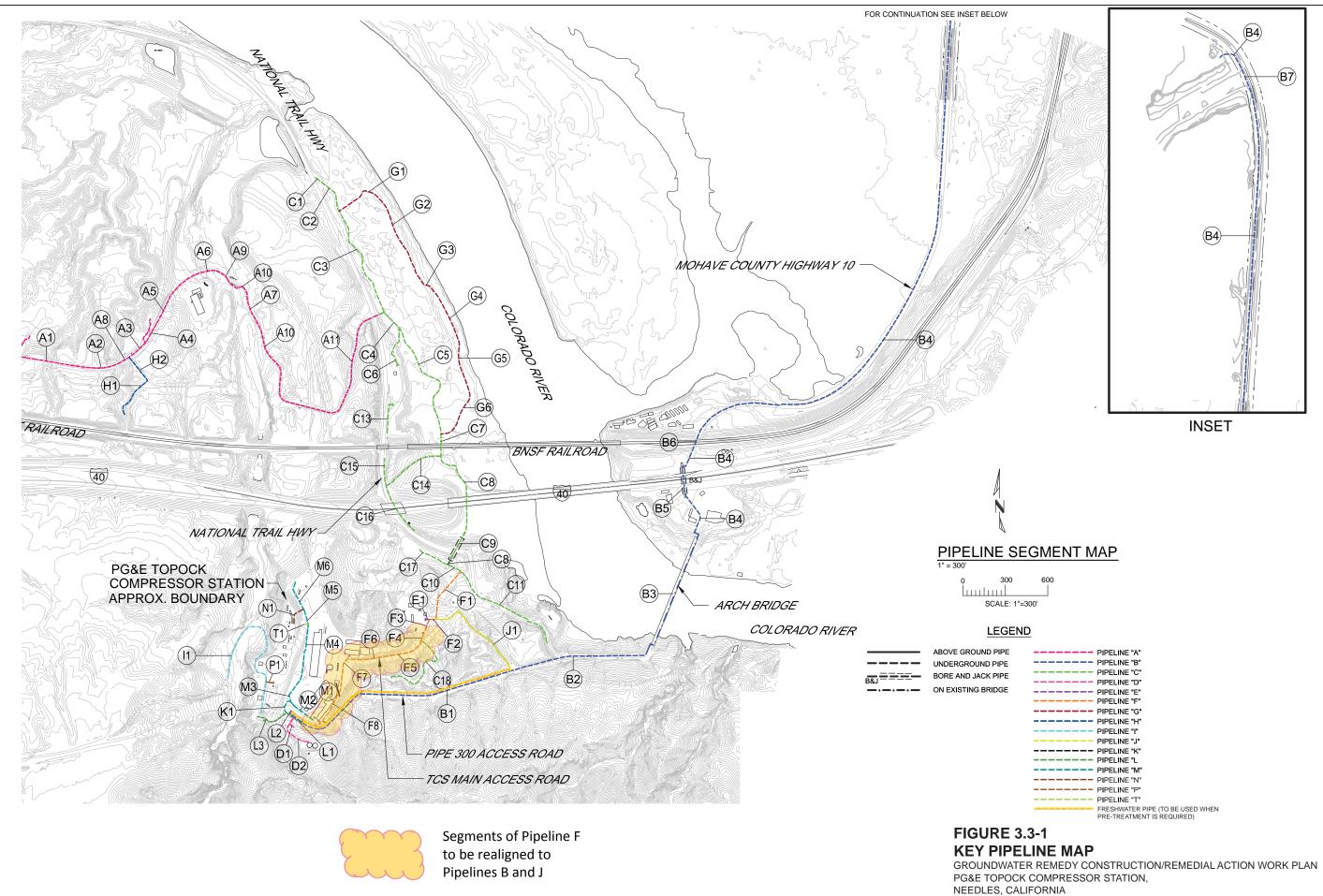
Description and Justification (Continued):

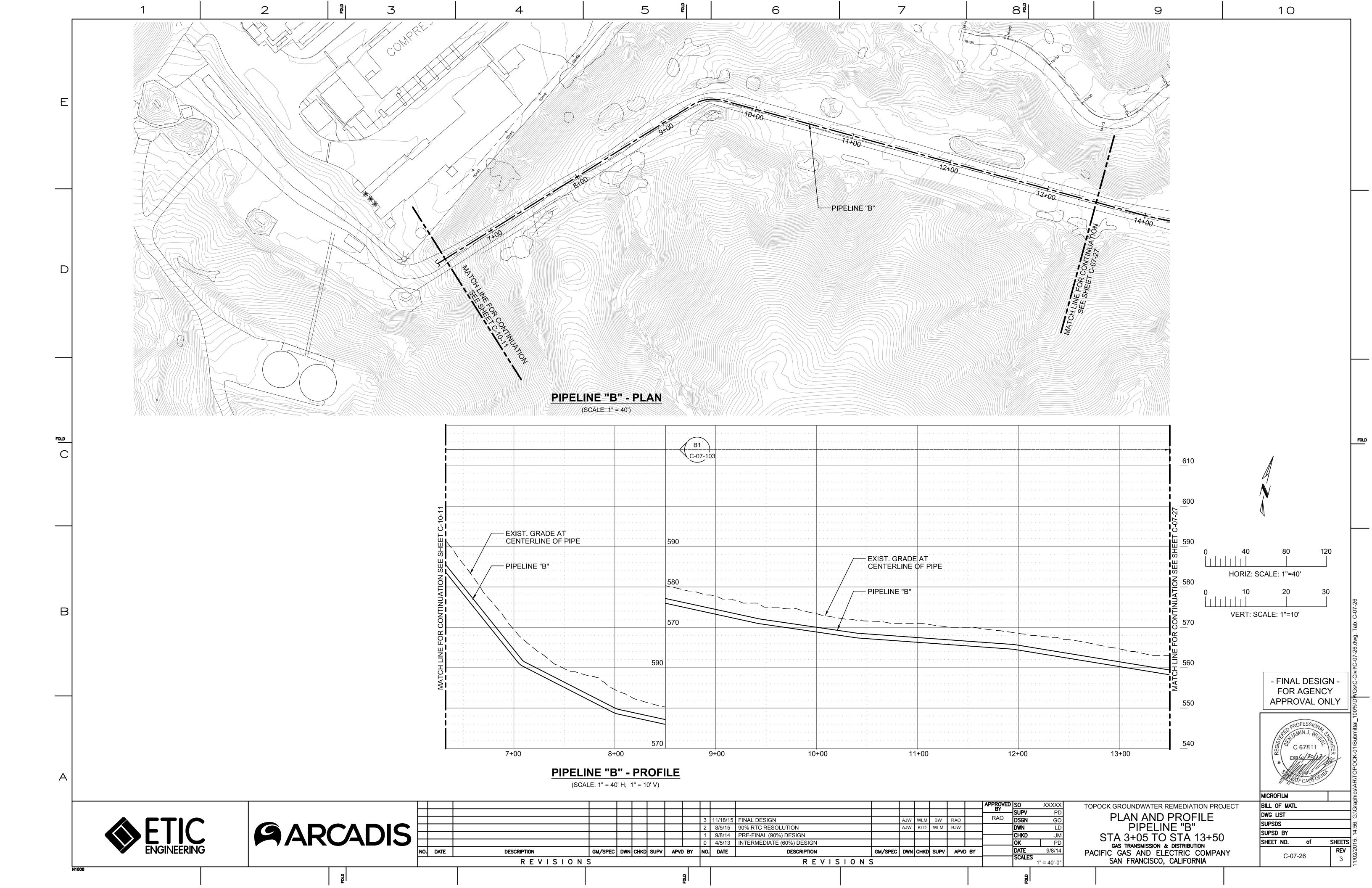
- Linear footage of liquid conveyance piping: an increase of 7,832 feet (because the combined length of Pipelines J and B is 1,000 feet longer than Pipeline F)
- Linear footage of electrical conduits/communication lines: an increase of 979 feet (for same reason as above).

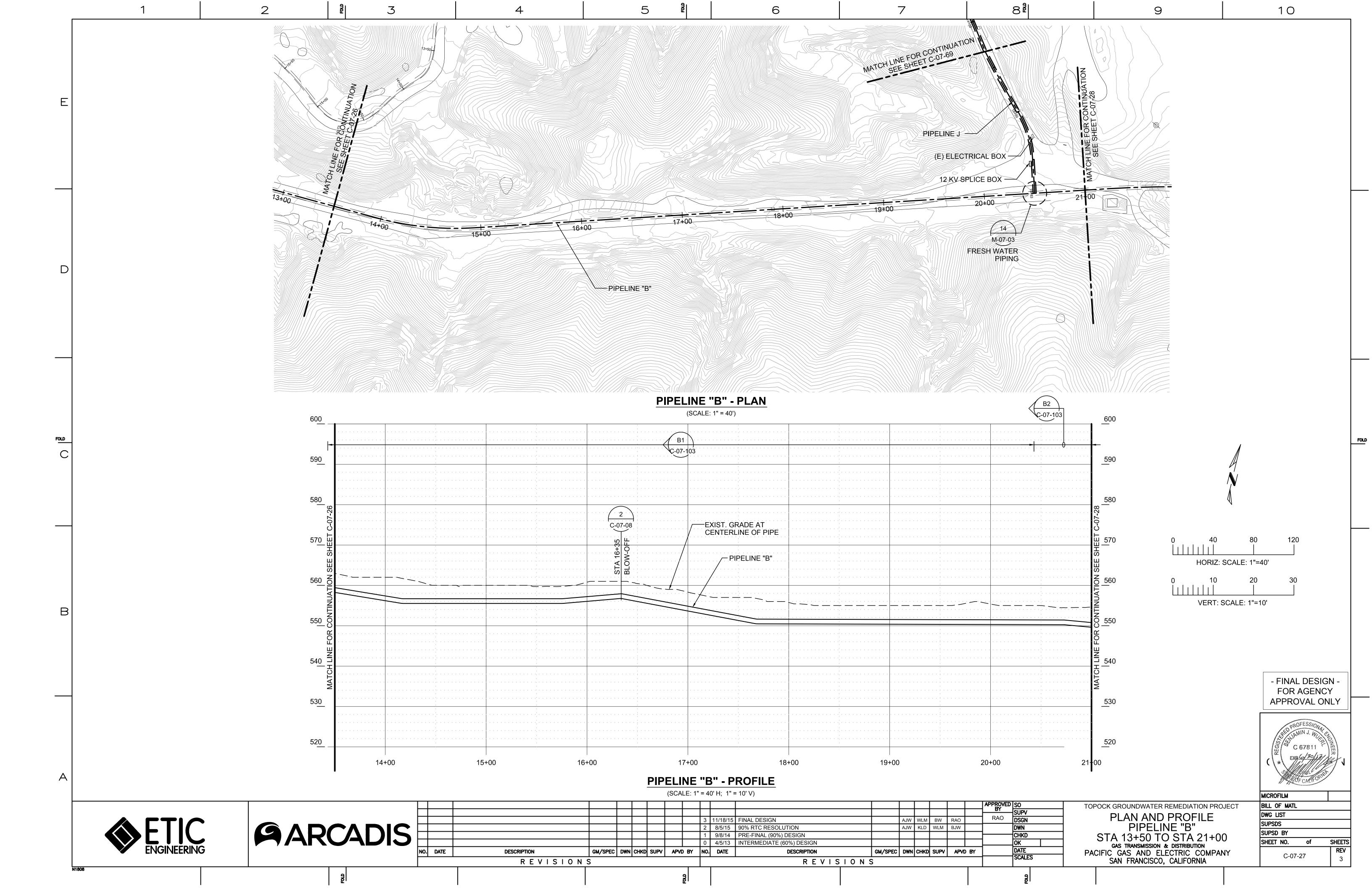
There are no additional impacts to biology, historical, and cultural resources not already evaluated. Similar to previous construction work in this area, PG&E will install traffic cones to block access to the bluff above work area (see drawing C-07-69).

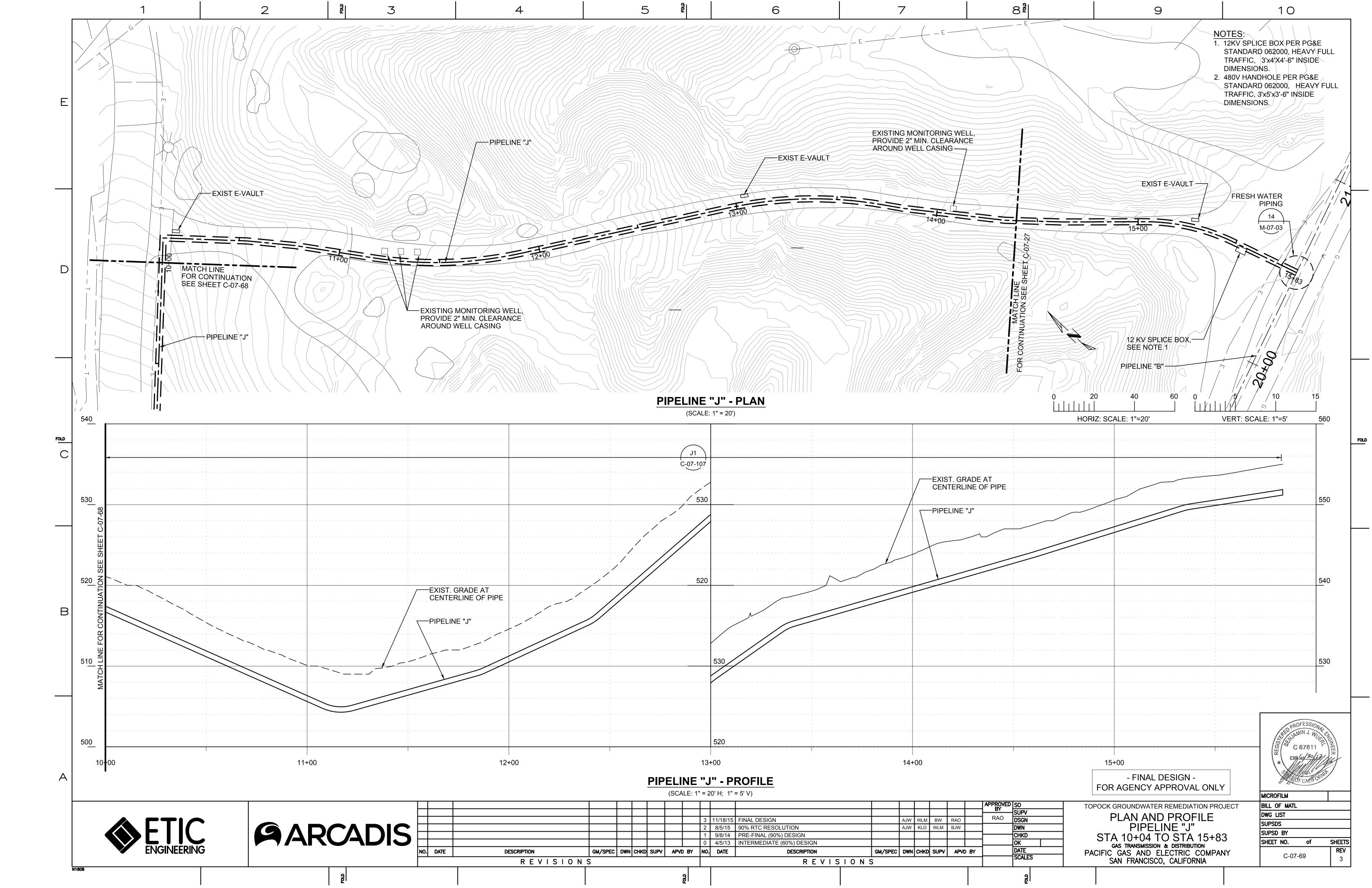
Approval Signatures:		1	
R. B.	5/3/19	Harmy DTSC	5/22/2019
PG&E Construction Manag	ger Date	Approving Agency /	Date
127. glests	oslozlia	Panula Atmis DOI	05/21/2019
PG&E QA Manager	Date	Approving Agency	Date

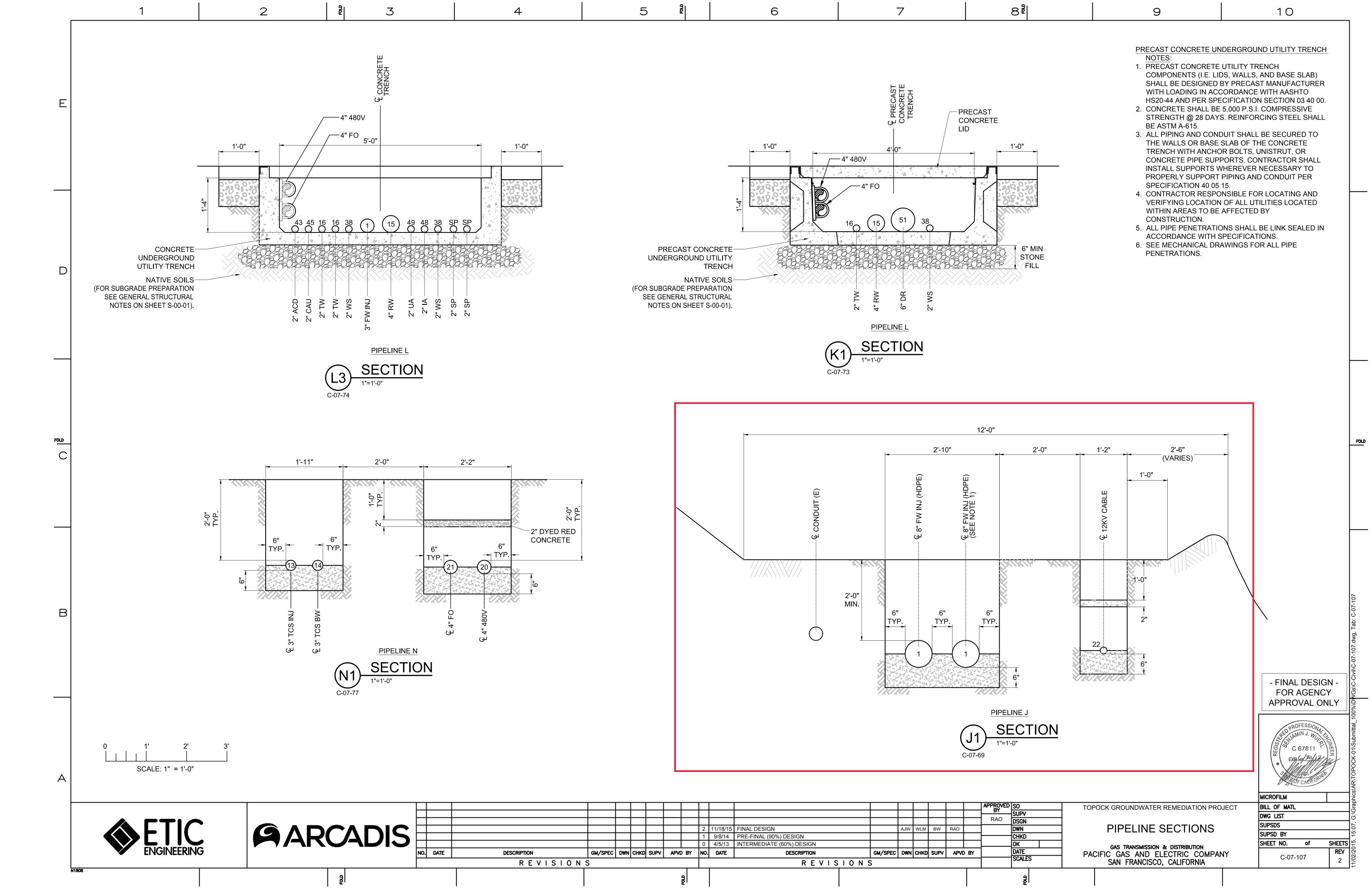
Relevant Drawings from Approved Final Design (November 2015)

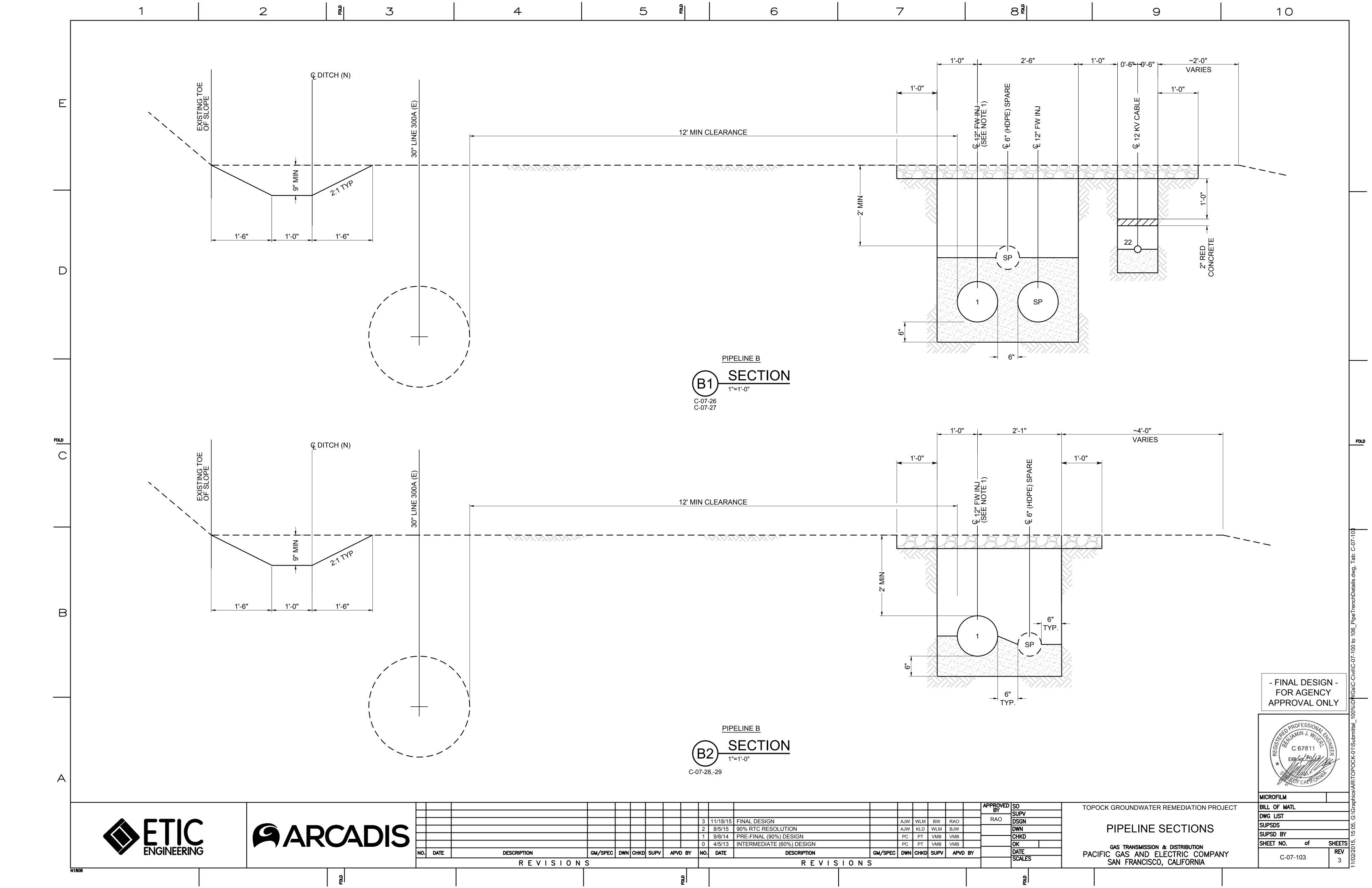


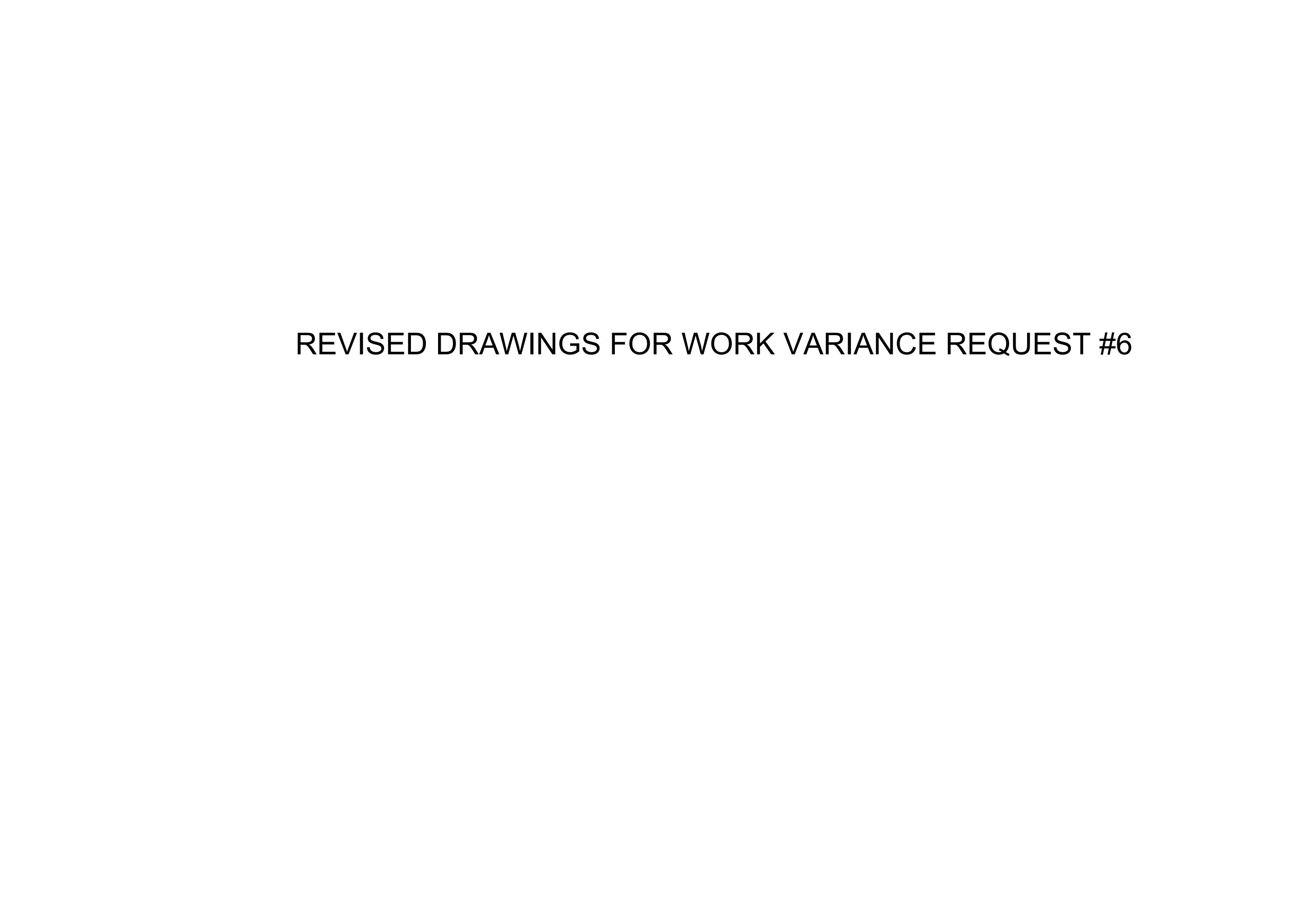


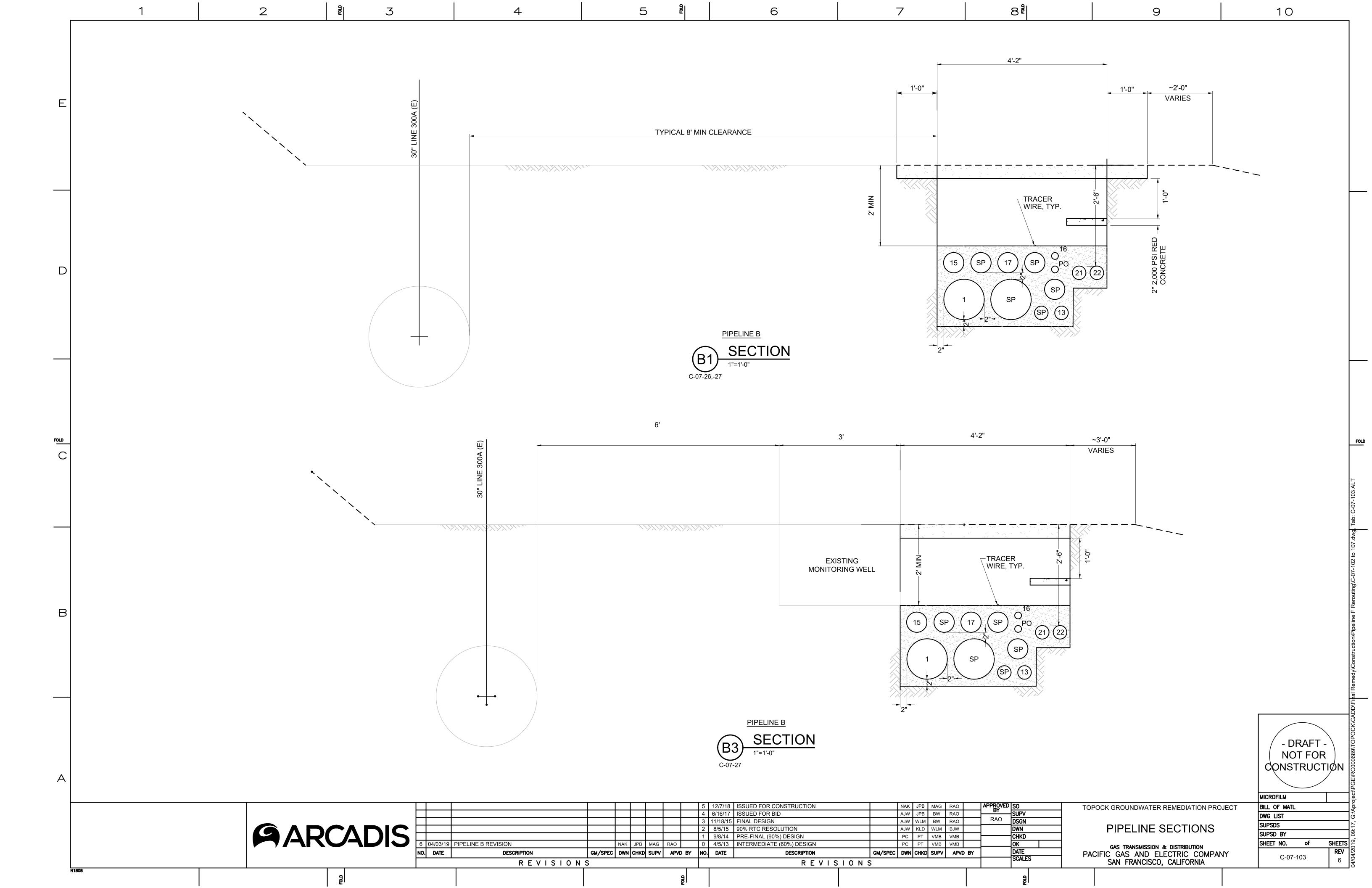


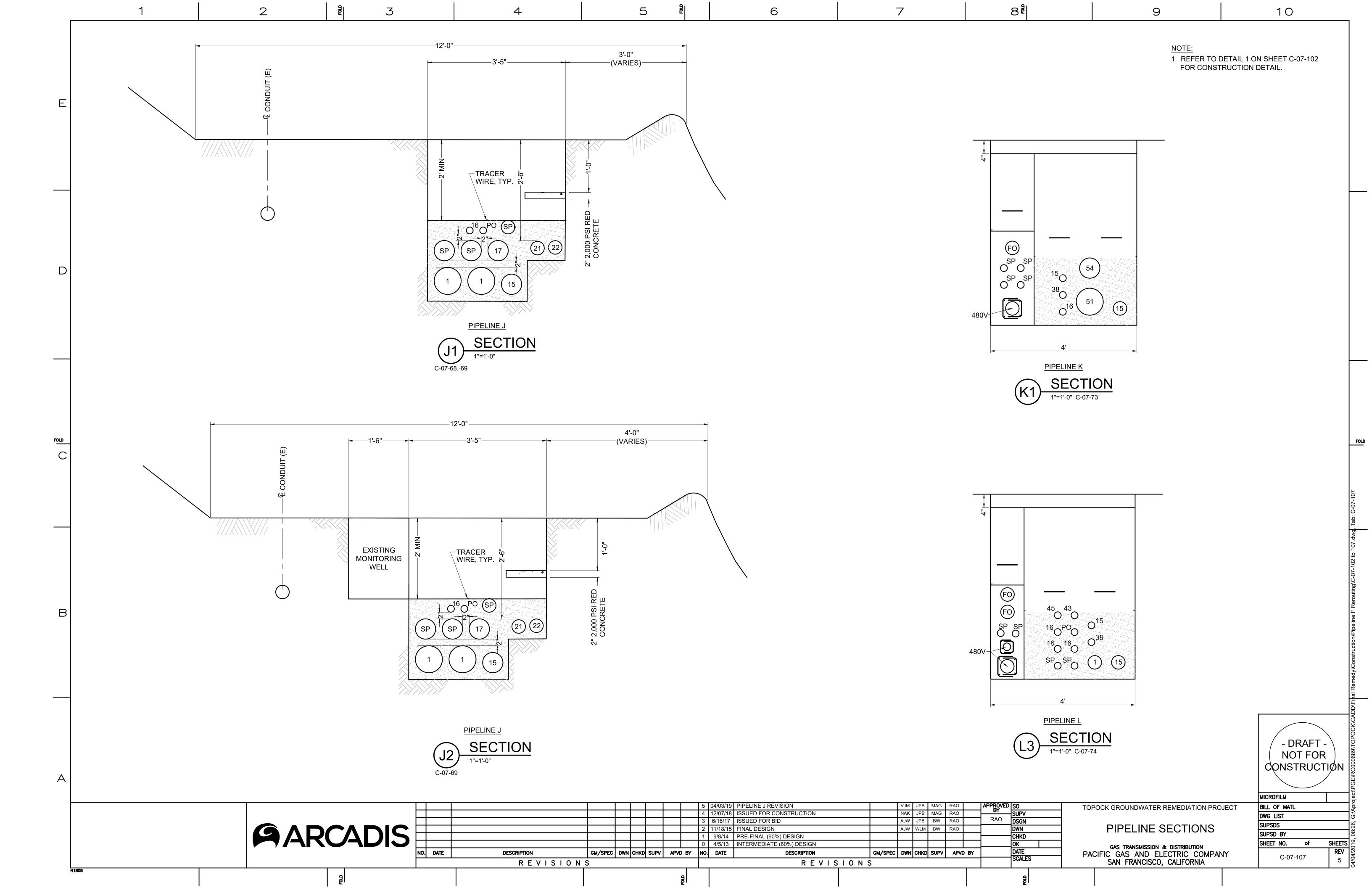












Future Activity Allowance Determination Matrix for Work Variance Request (WVR)

W	ork Variance Request No. 6 Date: 5/3/19				
sup fin pre and me	Future Activity Allowance is an activity that is not considered in the remedy design but necessary to support the project objectives. Future Activity Allowance is a Material Deviation which is defined in the final groundwater remedy design as: Material Deviation means a change or correction required to prevent a condition that would (1) render the approved design non-compliant with codes, regulations, and /or engineering standard of practices, (2) render planned well locations and/or constructions fail to meet the project objectives, (3) cause significant schedule delay, and/or (4) cause a significant increase in costs. (CH2M Hill, 2015)				
to fro the cor of	cording to the SEIR Project Description, "The inclusion of the Future Activity Allowance is not intended account for minor adjustments (work variances) of the remedy design during construction resulting m field conditions. DTSC's objective for the inclusion of the Future Activity Allowance is to consider a potential impacts of needing to take additional but previously unforeseen activities that were not intemplated as part of the Final Remedy Design but are activities that would improve the performance the remedy, or are necessary to gather additional information on the remedy performance, and/or in the transition of the active remedy to monitored natural attenuation." (ESA, 2017)				
1.	Are all components of the WVR in the approved final design as reviewed in the SEIR? $\hfill \boxtimes$ Yes $\hfill \square$ No				
2.	Are all components of the WVR staying within an infrastructure alignment in the approved final design? ☑ Yes □ No				
If a	nswers to both 1 and 2 are Yes, STOP – action is not Future Activity Allowance				
3.	For components not in approved final design, will the WVR require new access not identified for use in the final design and create new ground disturbance beyond those anticipated in final design? \Box Yes \Box No				
If a	nswer is No, STOP – action is not Future Activity Allowance. If Yes, proceed				
4.	For components not in approved final design and require new access or new ground disturbance, will the ground disturbing activity be outside the 2018 SEIR project boundary? \Box Yes \Box No				
	nswer is Yes, STOP – action is subject to additional CEQA evaluation. WVR approval will be a sidered after DTSC completes CEQA determination.				
5.	For WVR requiring new access and/or new ground disturbance, but project components are in approved final design and within the 2018 SEIR project boundary, is the variance necessitated by field conditions which are outside the control of the operator (e.g. refusal during drilling, unstable ground, existing design jeopardizes health and safety, modification to avoid archaeological resource, existing design does not conform to engineering standards, etc.)? □ Yes □ No				
	inswer is No or otherwise explained in Section 7 below, action is Future Activity Allowance, follow mmunication Protocol for Future Activities Allowance, Exhibit 3 to the Statement of Decision and				

Resolution of Approval. If the answer is Yes, action is Future Activity Allowance, and DTSC will work with

Future Activity Allowance Determination Matrix WVR No. 6
Page 2 of 2

Tribes to meet the time sensitivity of the WVR. Regardless of response, because of new access and/or new ground disturbance, WVR action may be subject to Federal Consultation. Inquire with BLM to determine whether there is a need to follow Consultation during Construction protocol.

6.	Does the addition of WVR cause an exceedance from infrastructure limits specified in the 2018 certified Final SEIR (Table 3-1 for well boreholes; Table 3-2 for pipeline trenches, electrical/communication conduit, roadway improvements, or sizes of buildings and structures; Table 3-4 for volume of soil disturbance and Table 3-5 for water usage)? □ Yes □ No
coı	inswer is Yes, STOP – action is subject to additional CEQA evaluation. WVR approval will be insidered after DTSC completes a CEQA checklist to determine if there are new or substantially more nificant environmental impacts than disclosed in the 2018 SEIR.
7.	Other extenuating circumstances or information for FAA considerations: No Yes – provide information and/or justification
Co	nclusion: WVR No. 6 🗵 is not a FAA 🗆 is a FAA
Sig	nature of DTSC reviewer: Date: 05/22/2019