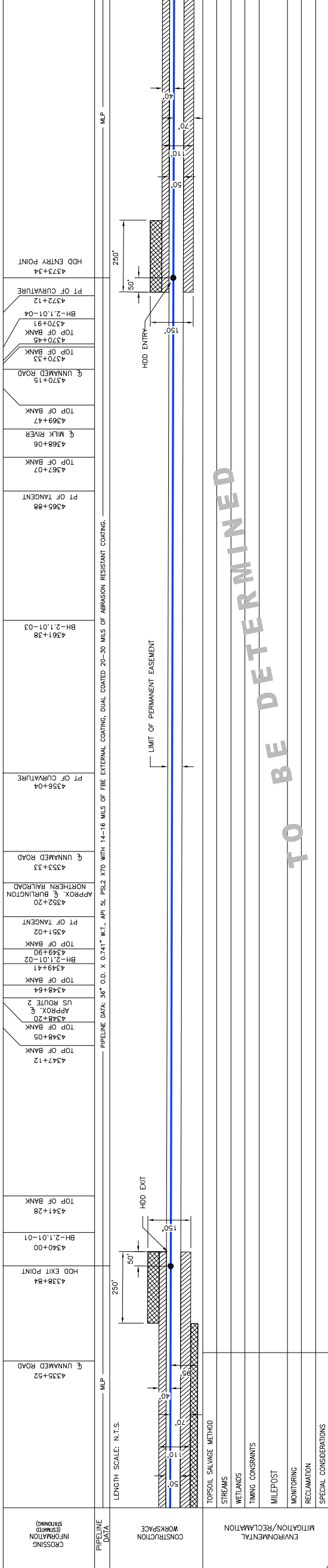
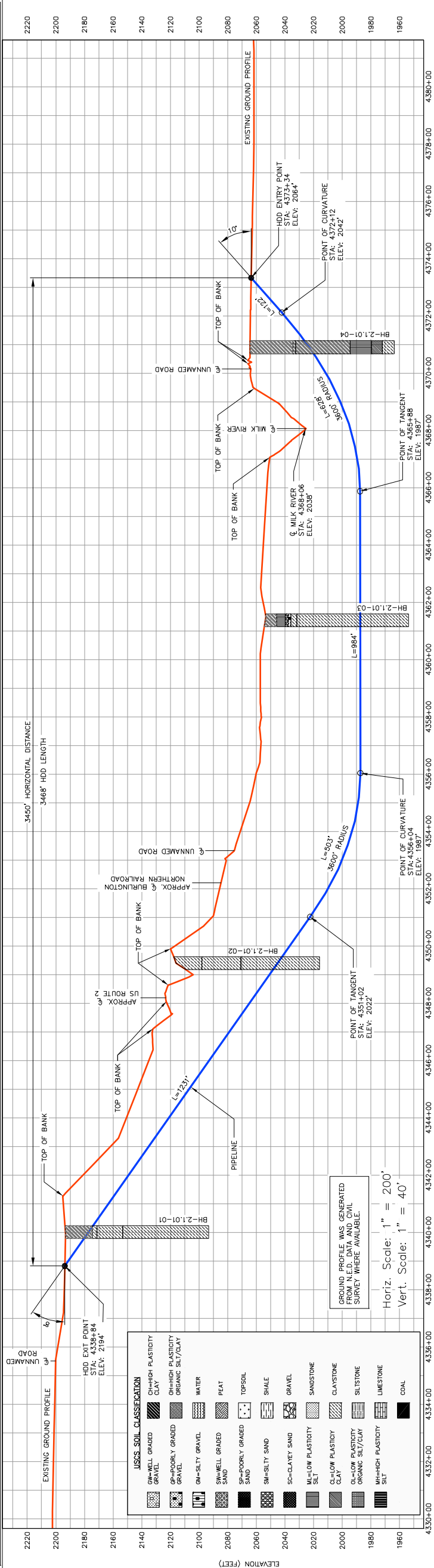
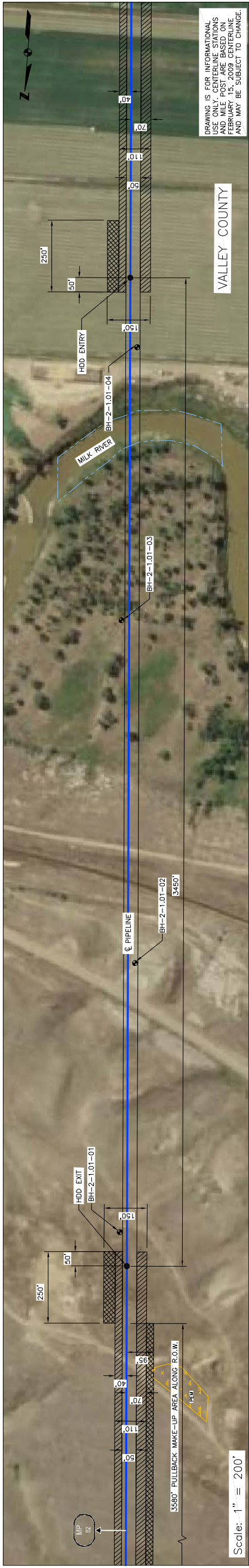


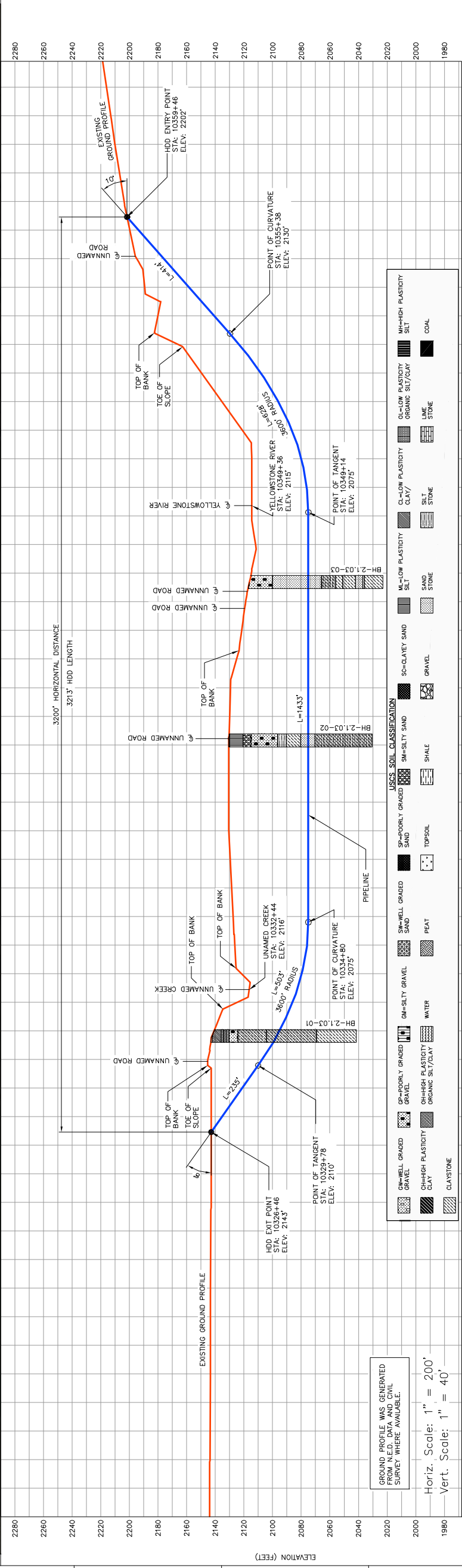
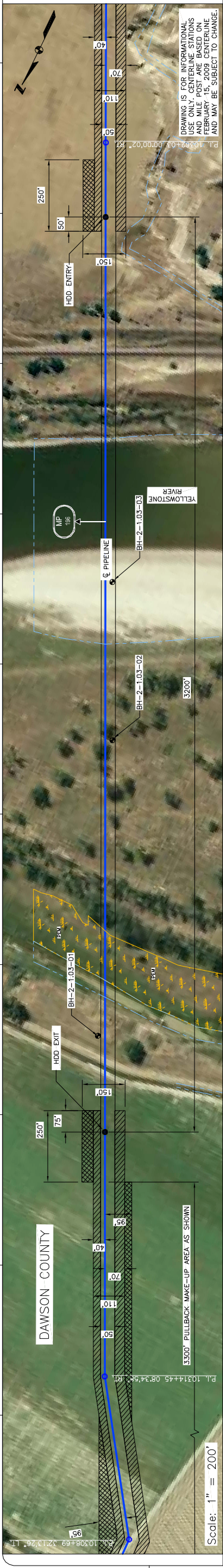
[illegible]

 Trow ENGINEERING CONSULTANTS INC.	 ConocoPhillips	 TransCanada <i>In business to deliver</i>	VALLEY SECTION	
			FIA # 4360	CHAINAGE: MP 82.7
MILK RIVER HDD INSTALLATION KEYSTONE XL PROJECT VALLEY COUNTY, MONTANA			DISCIPLINE # 03	
SCALE AS SHOWN	DRAWING No. 4360-03-ML-03-001		REV	3

TC_UD_BR.DWG 22X34

CADD DRAWING: DO NOT MAKE MANUAL REVISIONS

PLOTTED SIZE: ANSI D (22x34)



- ## INSTALLATION NOTES
- 1) ACCESS: ALL EQUIPMENT MUST ACCESS THE SITE ALONG THE PERMANENT RIGHT-OF-WAY FROM PUBLIC OR APPROVED PRIVATE ROADS.
 - 2) VEHICLE AND EQUIPMENT ACCESS PRESSING MAY BE INSTALLED IF APPROVED BY THE ENVIRONMENTAL INSPECTOR.
 - 3) WORK SPACE: WORK SPACE LIMITS ARE SPECIFIED. CLEANING WILL BE RESTRICTED TO THE WORK SPACES INDICATED AT THE ENTRY AND EXIT CLEARING BETWEEN THE ENTRY AND EXIT POINTS IS LIMITED TO THE INSTALL PUMPS AND PILING TO OBTAIN WATER (SEE APPROPRIATE).
 - 4) WATER SOURCE: DRILL WATER, PRE-INSTALLATION HYDROSTATIC TEST WATER SHALL BE OBTAINED FROM AN APPROVED SOURCE. THE ENTRAINMENT OF FISH OR DEBRIS AND IN ACCORDANCE WITH THE PROJECT TOXICOLOGICAL RISK ASSESSMENT REPORT, ANY PRELIMINARY TOXICOLOGICAL ANALYSIS SHALL BE TAKEN OUT OF THE BOTTOM OF THE WATER BODY.
 - 5) HYDROSTATIC TEST: PRE-INSTALLATION HYDROSTATIC TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROJECT TOXICOLOGICAL RISK ASSESSMENT REPORT. THE CONTRACTOR SHALL DISCHARGE HYDROSTATIC TEST WATER IN THE MIDDLE OF THE RIVER CHANNEL. THE CONTRACTOR SHALL RETURN TO THE LOCATION WHERE IT WAS OBTAINED. THE CONTRACTOR SHALL NOT CAUSE EROSION OF THE BANKS OR DAMAGE TO THE SURROUNDING ENVIRONMENT. THE CONTRACTOR SHALL UTILIZE AN ENERGY-DISSIPATING DEVICE AS DESCRIBED IN THE CMP.
 - 6) SPILL-PREVENTION: ALL PUMPS SHALL BE SET IN SEPARATION FROM EACH OTHER. THE CONTRACTOR SHALL MAINTAIN CONTROL AND CONTAMINANT-FREE PLAN (CFCO). EQUIPMENT AND MATERIALS SHALL BE STORED IN A SECURE AREA. EQUIPMENT REFUELING AND STORAGE OF HAZARDOUS MATERIALS SHALL BE DONE IN A SECURE AREA. EQUIPMENT SHALL BE WASHED FROM BODIES BOATS AND VEHICLES; EACH CONSTRUCTION ORGANIZATION SHALL HAVE A SPILL-KIT ON HAND. THE CONTRACTOR SHALL HAVE LEAKS AND SUPPLIES OF ABSORBENT AND BARRIER MATERIALS TO ALLOW RAPID REMEDIATION AND RECOVERY OF SPILLED MATERIALS.
 - 7) EROSION AND SEDIMENT CONTROL: CONTRACTOR SHALL SUPPLY, INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
 - 8) TOPSOIL SHALL BE STRIPPED AS REQUIRED BY PROJECT SPECIFICATIONS.
 - 9) PRIOR TO PIPE FULLBACK, CONTRACTORS' ACTUAL DRILL PROFILE SHALL BE SUBMITTED TO KESTONE FOR APPROVAL.
 - 10) INSTALLATION: THE PIPE SECTION FOR THE DRENCHED CROSSING SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SHOWING: THE CONTRACTOR SHALL ASSESS THE NEED FOR AND SUPPLY APPROPRIATE BALLAST DURING PULLBACK.
 - 11) MID DISPOSAL: THE CONTRACTOR SHALL DISPOSE OF EXCESS DRILLING FLUIDS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. COMPLIANCE WITH PERMIT CONDITIONS: UNDER NO CIRCUMSTANCES SHALL ANY DRILLING FLUIDS OR ANY OTHER MATERIALS BE DISCHARGED AT ANY POINTS OTHER THAN THE DESIGNATED PUMP-OUT STATIONS. ALL MATERIALS COLLECTED TO THE NEAREST PUMP-OUT STATION AND ENSURED OF AND DIRECTED BY THE COMPANY REPRESENTATIVE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 - 12) CLEANUP: AFTER COMPLETION, ALL DRILLING GROSS SHALL BE RETURNED TO THE ORIGINAL CONDITION. DISTURBED AREAS SHALL BE RESTORED TO THE ORIGINAL CONDITION.
 - 13) NOMINAL WORKING SPACE DIMENSIONS ARE SHOWN. LARGER AREAS MAY BE REQUIRED FOR LOGISTICS PURPOSES. ALL WORK SHALL BE PERFORMED WITH LOCAL TOPOGRAPHY, SOIL TYPES, AND VEGETATION IN MIND.

[illegible][illegible]

PROFESSIONAL ENGINEER/RPT	PERMIT / ENG. APPROVAL
_____	_____
_____	_____
_____	DATE

PRELIMINARY

REV. NO.	DATE	PERMIT NUMBER:

 Trow TROW ENGINEERING CONSULTANTS INC.	 ConocoPhillips	 TransCanada <i>In business to deliver</i>	FORT PECK SECTION	
			FIA # 4361	CHARGE: MP 196.0 DISCIPLINE # 03
YELLOWSTONE RIVER HDD INSTALLATION KEYSTONE XL PROJECT DAWSON & PRAIRIE COUNTY, MONTANA				
SCALE AS SHOWN	DRAWING No 4361-03-ML-03-001	REV 3		