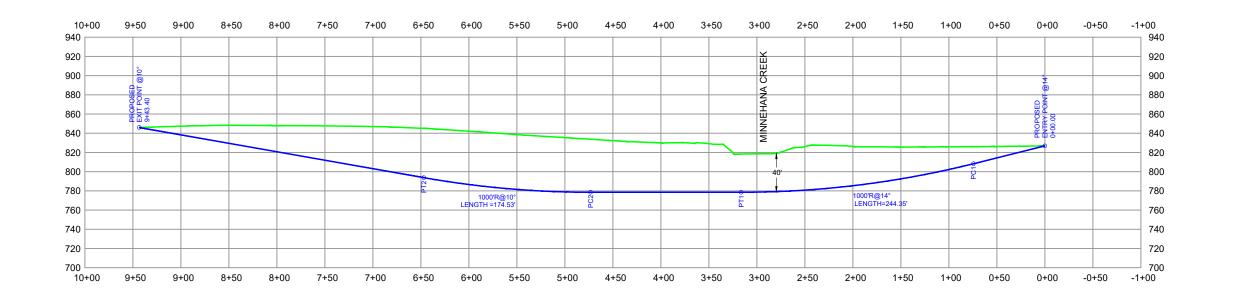


SCALE: 1"=100'

Figure 3 Design Profile



PROPOSED GROUND ENGINEER
PIPE LINE PROPOSED

PROFILE

SCALE: 1"=100' HORIZONTAL 1"=100' VERTICAL

GENERAL LEGEND

PRELIMINARY TIE-IN POINT DRILLED PATH ENTRY/EXIT POINT



BORING LOCATION

GEOTECHNICAL NOTES

1. GEOTECHNICAL ASSUMPTIONS ARE BASED ON ANALYSIS PROVIDED BY THE CLIENT/ENGINEER

DRAWINGS UNITS

- 1. LINEAR: FEET
- VOLUME: GALLONS
 ANGLES: DEGREES

TOPOGRAPHIC SURVEY NOTES

- 1. SHOWN TOPOGRAPHIC SURVEY DATA PROVIDED BY OTHERS (OWNER/)ENGINEER. ADDITIONAL TOPOGRAPHIC DATA MAY NEED TO BE OBTAINED IN FIELD FOR VERIFICATION.
- 2. NORTHINGS AND EASTINGS ARE REFERENCED TO MINNESOTA DOT: HENNEPIN COUNTY, US FOOT (HennepinMN-F)
- ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NAVD88, UNLESS OTHERWISE NOTED.

- DRILLED PATH STATIONING IS IN FEET BY HORIZONTAL MEASUREMENT AND IS REFERENCED TO CONTROL ESTABLISHED FOR THE DRILLED SEGMENT.

 STEPS PRIOR TO COMMENCING DRILLING OPERATIONS.

 STEPS PRIOR TO COMMENCING DRILLING OPERATIONS.
- DRILLED PATH COORDINATES REFER TO CENTERLINE OF PILOT HOLE AS OPPOSED TO TOP OF INSTALLED PIPE.

PROTECTION OF EXISTING FACILITIES

- 1. CONTACT THE UTILITY LOCATION/NOTIFICATION SERVICE FOR THE CONSTRUCTION AREA.
- 2. POSITIVELY LOCATE AND STAKE ALL EXISTING UNDERGROUND FACILITIES.
- MODIFY DRILLING PRACTICES AND DOWNHOLE ASSEMBLIES AS NECESSARY TO PREVENT DAMAGE TO EXISTING FACILITIES.

CONCEPTUAL DRAWING

DIRECTIONAL DATA					
DESCRIPTION	STATION	ELEVATION			
ENTRY@14°	0+00.00	826.81'			
PC1 (1000'R)	0+74.42	808.25'			
PT1	3+16.34	778.55'			
PC2 (1000'R)	4+73.33	778.55'			
PT2	6+46.98	793.74'			
EXIT@10°	9+43.40	846.01'			
HORIZONTAL DISTANCE = 943.40'					
DIRECTIONAL DRILL PIPE LENGTH = 953.56'					

TOLERANCES		REVISIONS		
ENTRY POINT	NO	DATE	REVISION DESCRIPTION	SOURCE DRAWING
EXIT POINT	Α			
MINIMUM 3 JT RADIUS	В			
HORIZONTAL	С			
VERTICAL	D			
	Е			
	F			

MILE	HELS			
UTILITY SERVICES, INC. 817 W. MAIN ST., P.O. BOX 128 BROWNSYLLE WISCONSIN 53008 PHOTO 1292 - 583-51322 FAXI 92-6942-4323				
IONAL BORE FOR:				
TT: NEHANA CREEK CROSSING				
NG: NEHANA CREEK HDD PLAN & PROFILE				
IND REFERENCE: SN, MUSI, MINNEHANA CREEK, MN				
DUCT PIPE SIZE :				
ATION: HENNEPIN COUNTY, MN WN BY: KWW	JOB NUMBER;			
E: 9/10/24				

PRELIMINARY DESIGNED DRAWING MAY BE MODIFIED IN FIELD BASED ON CONDITIONS ENCOUNTERED.

2. FIELD VERIFICATION OF STATIONS AND ELEVATIONS REQUIRED.

PLACEMENT OF DRILL RIG(S) IS NOT FIXED BY DESIGNATED ENTRY AND EXIT POINTS. MICHELS RESERVES THE RIGHT TO DETERMINE PLACEMENT OF DRILL RIG ANDION REDE FOR DUAL RIGS (1-RIG AT ENTRY AND 1-RIG AT EXIT) FOR OVERALL SAFETY AND CONSTRUCTABILITY OF PROPOSED HIDD

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