

NOTE: BORE ALL PAVED STREETS AND DRIVEWAYS  
 Minimum depth requirements for crossings of state highways and county roads is 60".  
 Minimum depth requirements for crossings of city streets and township roads is 48".  
 Minimum depth for parallel installations on state highways and county roads is 36".  
 Minimum depth for parallel installations on city streets and township roads is 30".  
 All steel pipe welds to be coated with 2 part epoxy.

INSTALL 3" PE CL-6  
 JOINT TRENCH IN W 10' OF 20' UTILITY EASEMENT (UE)  
 C = INSTALL 3" PE CAP TO COVER SERVICE LEAVING 7' STUB N

Install, Clean and Test, and Put in Service; Proposed new main per CenterPoint Energy Construction and Service Manual.

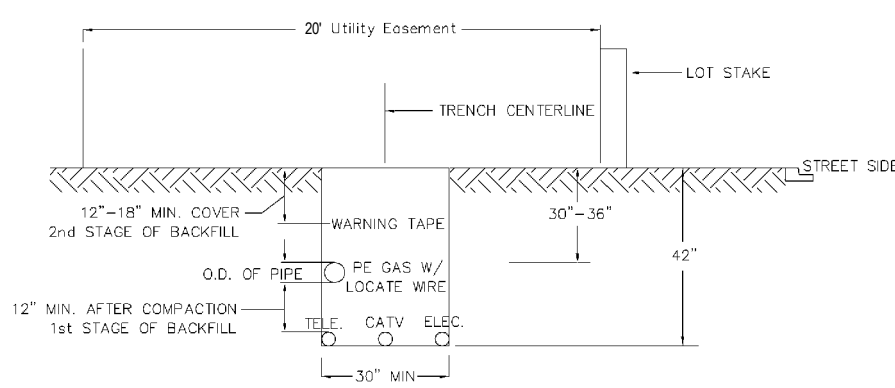
Purge new main until essentially 100% gas reading is obtained on Combustible Gas Indicator. See CenterPoint Energy Construction and Service Manual Section CS-B-1.230 for purging mains into service.

Install a marker ball at a new end of main, at a valve, at each ell of a horizontal offset, at road crossings and at any fitting or pressure control identified as needing to be located in the future. Refer to CenterPoint Energy Construction and Service Manual section CS-B-1.310 for installation procedures.

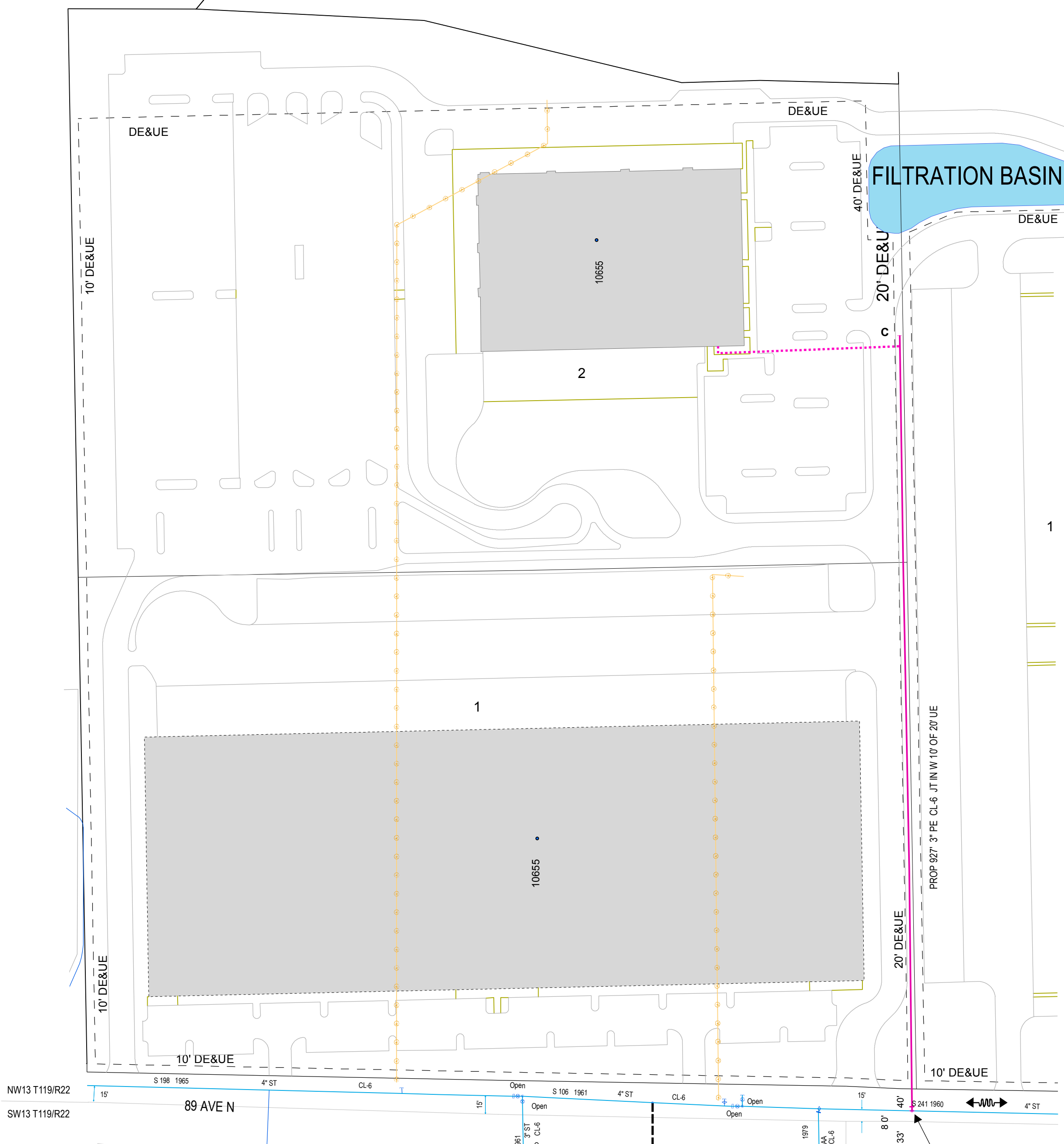
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature: *Nathaniel Nazareno*  
 Typed or Printed Name: NATHANIEL NAZARENO

Date: 5/1/19 License Number: 55917



### DUAL MAIN IN UTILITY EASEMENT



MINNESOTA REGION  
 PROPRIETARY AND CONFIDENTIAL  
 PROJECT #: 89484269  
 M52900 MAPLE GROVE  
 ONE CALL:  
 Hennepin  
 \*NW13 T119/R22  
 \*SW13 T119/R22  
 \* = this Page

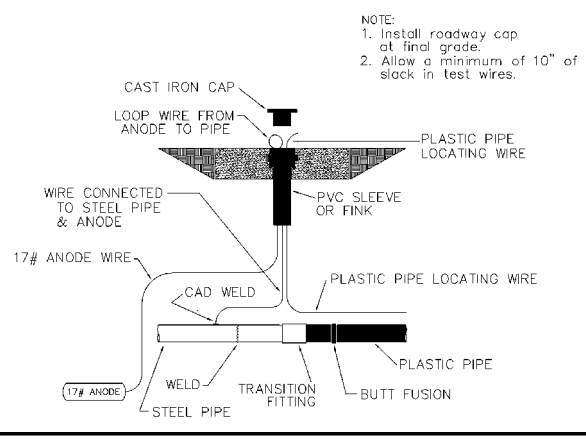
LEGEND:  
 — ACTIVE MAIN  
 — DESIGNED MAIN  
 - - - PROPOSED ABANDONED/  
 - - - OUT OF SERVICE MAIN  
 - - - ABANDONED/  
 - - - OUT OF SERVICE MAIN  
 (A) PROPOSED SERVICE LINE  
 SEE I/C DESIGN FOR EXACT LOCATION

PIPE REQUIRED:  
 927' 3" PE CL-6  
 927' PIPE  
 PROPOSED ABANDONED PIPE:

COPIES:  
 PIPELINE INTEGRITY PACKET: N  
 STATION MANAGER: N  
 DD NUMBER: N  
 CORROSION: DAN JUSTIN  
 EMP: N  
 FOLLOW INTERNAL PIPE SAMPLING REQUIREMENTS? N  
 SURVEYOR REQUIRED? N  
 RETURN PACKET TO ENG? N  
 GFIP #: N  
 PERMITS: MAPLE GROVE

CP TEST POINT WITH ... AND PLASTIC PIPE LOCATING STATION ROADWAY INSTALLATION

LOCATING/TRACER WIRE - PIPES  
 Solid 12 THHN copper tracer wire shall be buried with all plastic pipes.  
 NOTE: Whenever tracer wires are joined together or connected to plastic pipes or services, the connections shall be coated with mastic/epoxy/tape.  
 Tracer wire shall also be terminated with plastic pipes when inserting inside of cast iron pipes.  
 Where steel pipes and plastic pipe are joined together, the tracer wire will be terminated in a test box as shown in the drawing below. A separate 12 THHN copper wire will be connected to the steel pipe and also terminated in the same test box with the tracer wire.



EXISTING:  
 4" ST CL-6 S241-1960 @ 15' NCL 89 AVE N  
 INSTALL:  
 3" FLAT BOTTOM TEE N  
 3" TRANSITION FITTING & SLEEVE  
 CP TEST POINT WITH ANODE AND PLASTIC PIPE LOCATING STATION USING A ROADWAY  
 EXTEND:  
 3" PE CL-6 N JT IN W 10' OF 20' UE

PROJECT DESCRIPTION: NB CO PARK 81 NORTH  
 DESIGNER: Wendy Kronwall  
 PHONE #: 612-321-5508  
 DRAWN BY: Wendy Kronwall  
 DESIGN DATE: 4/30/2019

REVISION INFO:  
 Main  
 SS#

SCALE 1" = 100'  
 SHEET 1 OF 1

DESIGNER EXPRESS DESIGN 4/30/2019 4:57:10 PM