

ABANDONMENT PROCEDURES
 See Construction Procedures for installation of mains and services prior to abandonments.
 This project includes work on one-way feed mains.
 Ensure all proposed main is in service, all taps are completed and all services have been transferred to new main prior to abandonments.
 Cut and Abandon existing main as shown. Purge abandoned mains until essentially 0% gas reading is obtained on Combustible Gas Indicator.
 See CenterPoint Energy Construction and Service Manual Section CS-B-1.110 and Section CS-B-1.230 for purging mains out of service using air movers.
 Contact Engineering with questions.

CONSTRUCTION NOTES
 Install new main as shown or as directed in field at time of installation.
 All test points should be installed in the boulevard or other acceptable locations and avoid placement in driving lanes.
 Verify Coating test results if required prior to abandoning main.

CONSTRUCTION PROCEDURES
 Install, Clean and Test, and Put in Service, Proposed new main per CenterPoint Energy Construction and Services Manual.
 Procedure for tapping or making tie-ins to existing gas mains: Verify existing gas main size, type, and location prior to tapping or making tie-in. Monitor and verify, using a pressure gauge, existing gas main Pressure Class within the bell hole of tap location or tie-in location prior to tapping or making tie-in.
 Purge new main until essentially 100% reading is obtained on Combustible Gas Indicator. See CenterPoint Energy Construction and Service Manual Section CS-B-1.230 for purging mains into service.
 Complete all Service / Meter Work as directed. (See Service Survey)
 See Abandonment Procedures for abandonment and purging procedures.

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.
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.

IDENTIFIES COATING SAMPLE LOCATION. CONTACT CHRISTOPHER LANSA (612) 321-5449 IN ENVIRONMENTAL PROGRAMS TO SCHEDULE SAMPLING OF PIPE COATING. GIVE 48 HOURS NOTICE WHEN POSSIBLE TO ARRANGE FOR A LICENSED INSPECTOR.

When butt fusing to existing in-service polyethylene, visually inspect for the presence of hydrocarbon permeation immediately after removing fusion iron. If any bubbling is identified on the heated surface, do not join to new PE pipe. Allow to cool and cut this end off (12" length) and send to the Golden Valley Lab with street location and W.O.#. Complete tie-in/extension using an electrofusion coupling(s).
 Document in field notes.

Pipe > 4-inches Diameter (Unregulated PCB area):
 Pipe being removed must be tested for PCBs and asbestos to confirm disposal requirements - contact Environmental, 612-361-8471.
 For pipe to be abandoned, refer to CNP Construction and Service Manual CS-B-1.110, CS-B-1.330, and CS-B-1.100.

Pipe < 4-inches Diameter (Unregulated PCB area):
 Project area cleared for internal impacts. Pipe being removed is unregulated for disposal if coating does not exist or is non-asbestos. Refer to CNP Construction and Service Manual CS-B-1.110, CS-B-1.330, and CS-B-1.100, for pipe to be abandoned.

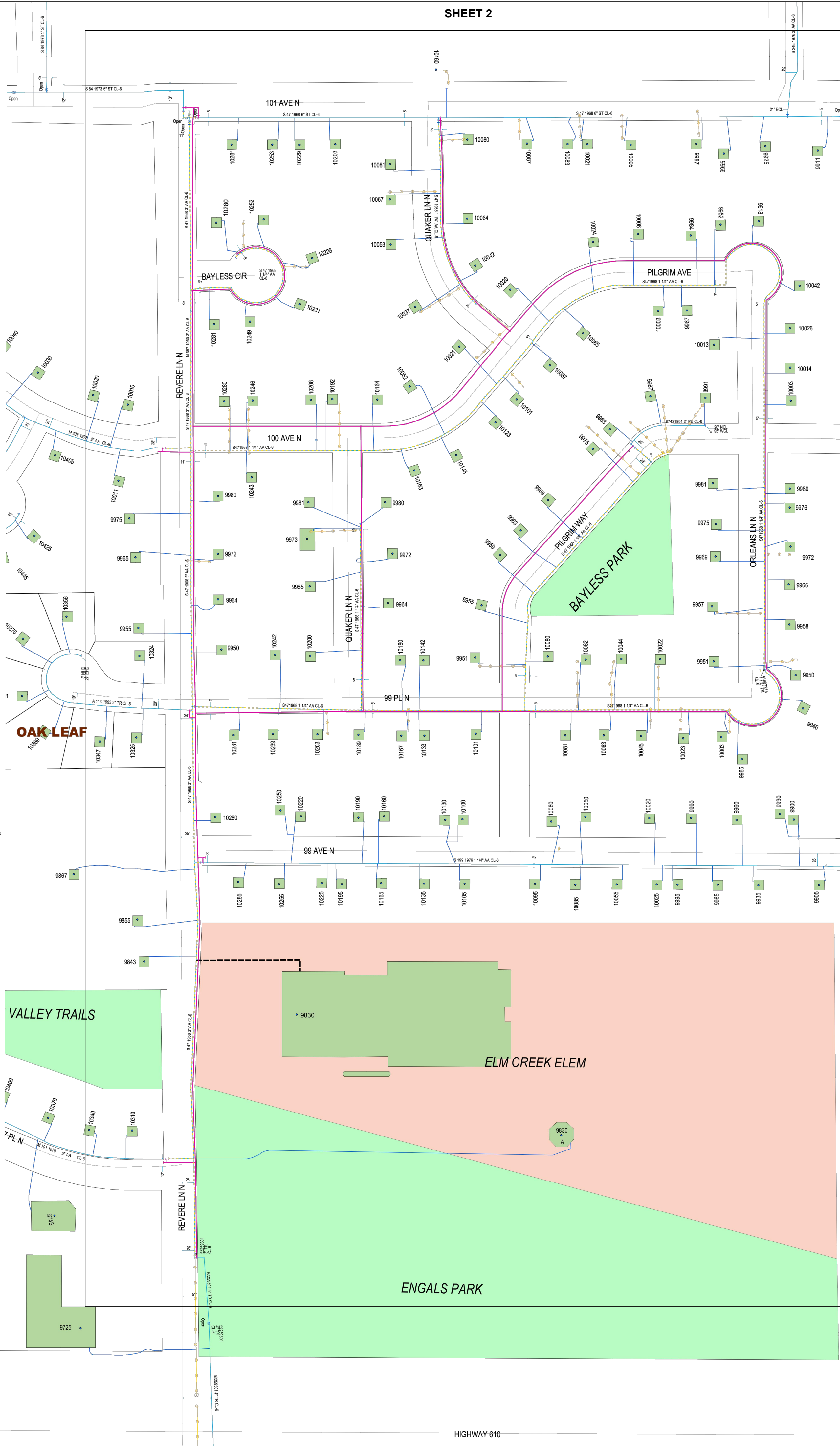
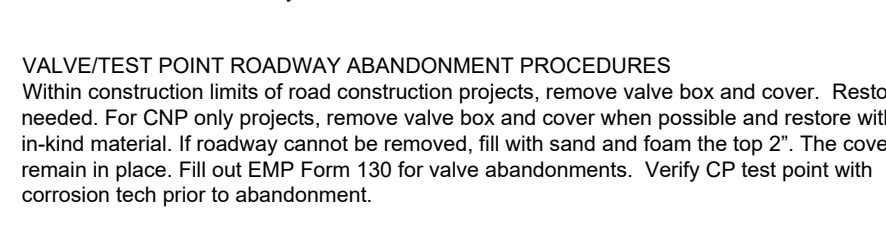
INSTALL REINFORCING SQUEEZE OFF SUPPORT CLAMP ON ALL SQUEEZE OFF POINTS ON ALDLY A PIPE.

AA/PE Pipe Sample
 For AA/PE pipe installed from 1968 to 1973 collect a two foot long pipe sample, document Main Auth and sample location then deliver to Golden Valley Lab.

VALVE/TEST POINT ROADWAY ABANDONMENT PROCEDURES
 Within construction limits of road construction projects, remove valve box and cover. Restore as needed. For CNP only projects, remove valve box and cover when possible and restore with in-kind material. If roadway cannot be removed, fill with sand and foam the top 2". The cover will remain in place. Fill out EMP Form 130 for valve abandonments. Verify CP test point with corrosion tech prior to abandonment.

CORROSION TECH FOR AREA IS PATRICK CARLSON CELL, 612-434-1220

CP TEST POINT WITH ANODE AND PLASTIC PIPE LOCATING STATION ROADWAY INSTALLATION
LOCATING/TRACER WIRE - STEEL
 Solid 12 THIN 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 insulative sealant/epoxy.
 Tracer wire shall also be terminated with plastic pipes when inserting inside.
 Where steel pipes and plastic pipe are joined together, the tracer wire shall be terminated in a bell box or shown in the drawing below. A separate 12 THIN copper wire will be connected to the steel pipe and also terminated in the same bell box with the tracer wire.
NOTE:
 1. Install roadway cap at 4" max. grade.
 2. Allow a minimum of 10" of slack in test wire.



CenterPoint Energy
 MINNESOTA REGION
 PROPRIETARY AND CONFIDENTIAL
 PROJECT #: 96721906
 M50600 BROOKLYN PARK
 M52900 MAPLE GROVE

ONE CALL:
 Hennepin
 *SE1 T119/R22
 *NW7 T119/R21
 *SW6 T119/R21
 *NW12 T119/R22
 *SW12 T119/R22
 *SE12 T119/R22
 *NE12 T119/R22
 *SW1 T119/R22
 * = this Page

LEGEND:
 — ACTIVE MAIN
 — DESIGNED MAIN
 — PROPOSED ABANDONED/
 — OUT OF SERVICE MAIN
 — ABANDONED/
 — OUT OF SERVICE MAIN

PIPE REQUIRED:
 11064' 2" PE CL-6
 2247' 4" PE CL-6
 73' 6" PE CL-6
 13384' PIPE

PROPOSED ABANDONED PIPE:
 2245' 3" AA CL-6
 4' 3" TR CL-6
 3' 4" TR CL-6
 10240' 1 1/4" AA CL-6
 3' 3" ST CL-6
 104' 2" AA CL-6
 345' 1 1/4" TR CL-6
 32' 6" ST CL-6
 36' 2" PE CL-6
 1' 1 1/4" ST CL-6
 2' 2" TR CL-6
 1' 1 1/4" PE CL-6

13016' PIPE

COPIES:
 PIPELINE INTEGRITY PACKET: N
 NATION MANAGER: N
 DD NUMBER: N/A
 CORROSION: PATRICK CARLSON
 EMP: N

FOLLOW INTERNAL PIPE SAMPLING REQUIREMENTS? Y

SURVEYOR REQUIRED? N

RETURN PACKET TO ENG? N

GFIP #: 221-2021

**PERMITS: CITY OF BROOKLYN PARK
 CITY OF MAPLE GROVE**

**PROJECT DESCRIPTION: SP74
 SP74 REVERE LN**

**DESIGNER: Angela Cao
 PHONE #: 612-321-5167
 DRAWN BY: Angela Cao
 DESIGN DATE: 1/13/2021**

REVISION INFO:

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: *Daniel G. Christensen*
 Typed or Printed Name: DANIEL G. CHRISTENSEN
 Date: 01/29/2021 License Number: 46588

Main SCALE 1"=125'
 SSS SHEET 1 OF 3

ONE CALL:
 Hennepin
 *SE1 T119/R22
 *NW7 T119/R21
 *SW6 T119/R21
 *NW12 T119/R22
 *SW12 T119/R22
 *SE12 T119/R22
 *NE12 T119/R22
 *SW11 T119/R22
 *this Page

LEGEND:
 ACTIVE MAIN
 DESIGNED MAIN
 PROPOSED ABANDONED/
 OUT OF SERVICE MAIN
 ABANDONED/
 OUT OF SERVICE MAIN

PIPE REQUIRED:
 11064' 2" PE CL-6
 2247' 4" PE CL-6
 73' 5" PE CL-6
 13384' PIPE

PROPOSED ABANDONED PIPE:
 2245' 3" AA CL-6
 4' 3" TR CL-6
 3' 4" TR CL-6
 10240' 1 1/4" AA CL-6
 3' 3" STL CL-6
 104' 2" AA CL-6
 345' 1 1/4" TR CL-6
 32' 6" STL CL-6
 36' 2" PE CL-6
 1' 1 1/4" STL CL-6
 2' 2" TR CL-6
 1' 1 1/4" PE CL-6
 13016' PIPE

COPIES:
 PIPELINE INTEGRITY PACKET: N
 STATION MANAGER: N
 DD NUMBER: N/A
 CORROSION: PATRICK CARLSON
 EMP: N

FOLLOW INTERNAL PIPE SAMPLING REQUIREMENTS? Y
 SURVEYOR REQUESTED? N
 RETURN PACKET TO ENG? N
 GFIP # 221-2021

PERMITS: CITY OF BROOKLYN PARK
 CITY OF MAPLE GROVE

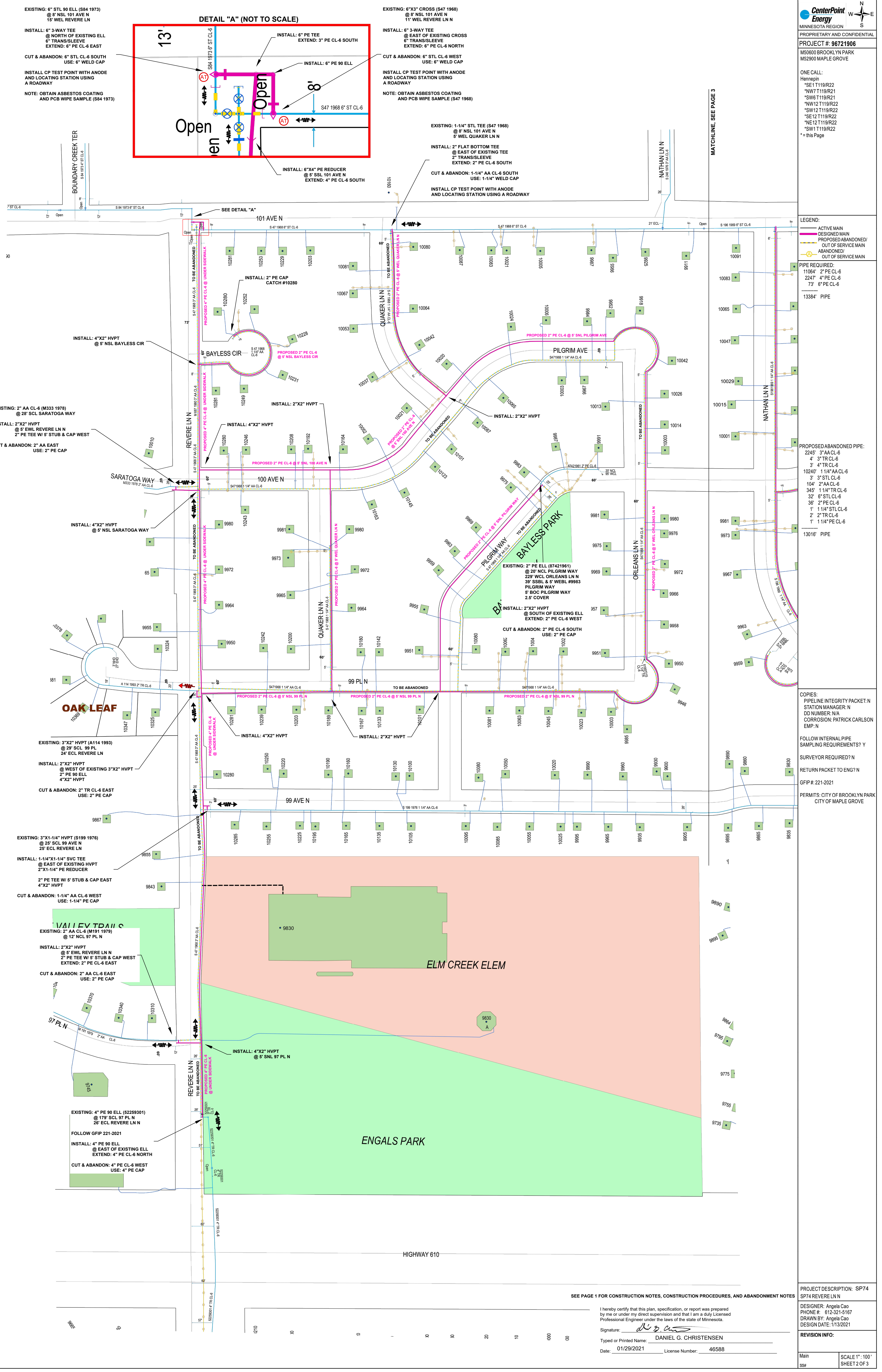
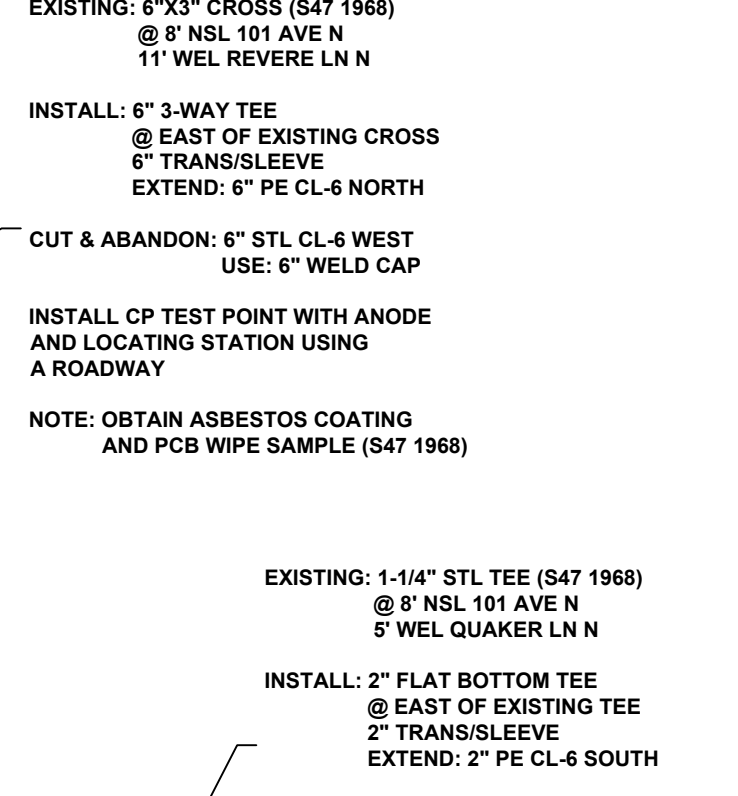
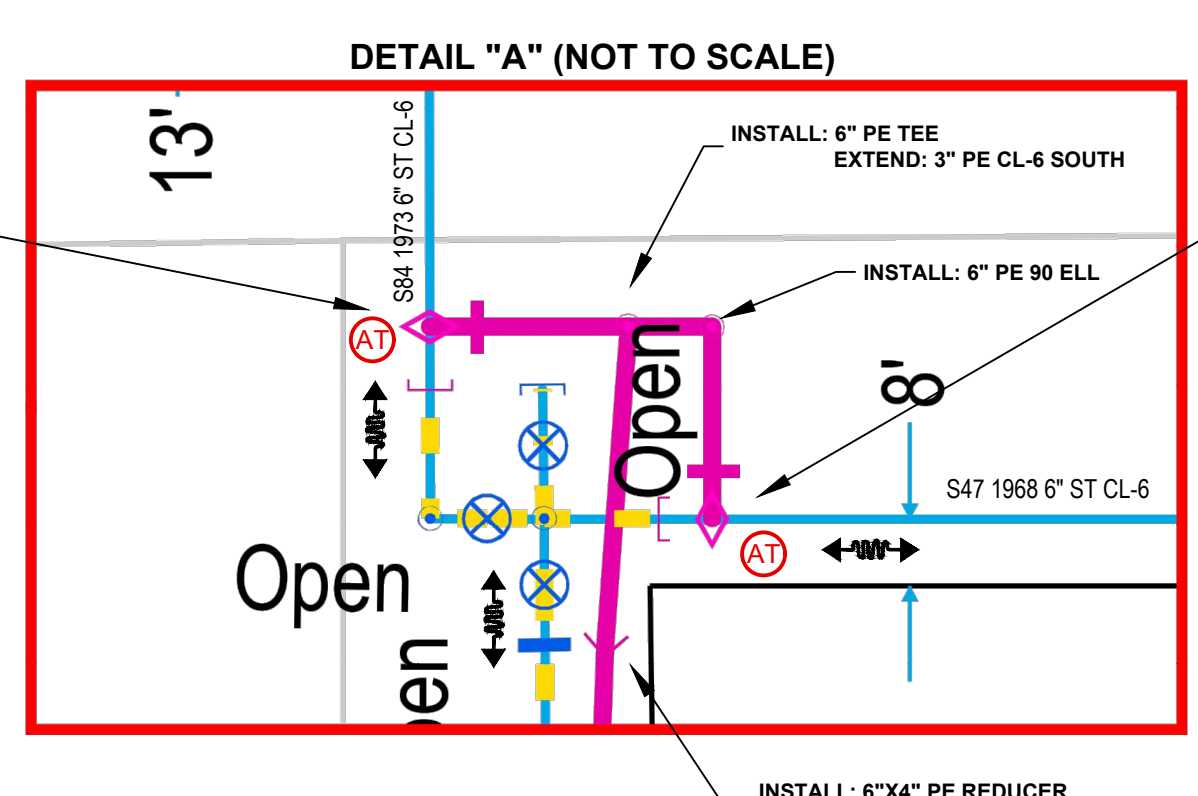
PROJECT DESCRIPTION: SP74
 SP74 REVEREL LN

DESIGNER: Angela Cao
 PHONE #: 612-321-5167
 DRAWN BY: Angela Cao
 DESIGN DATE: 1/13/2021

REVISION INFO:

Main
 Ssr

SCALE 1" = 100'
 SHEET 2 OF 3



SEE PAGE 1 FOR CONSTRUCTION NOTES, CONSTRUCTION PROCEDURES, AND ABANDONMENT NOTES

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: *[Signature]*
 Typed or Printed Name: DANIEL G. CHRISTENSEN
 Date: 01/29/2021 License Number: 46588

ONE CALL:
Hernepin
*SE1 T119/R22
*NW7 T119/R21
*SW6 T119/R21
*NW12 T119/R22
*SW12 T119/R22
*SE12 T119/R22
*NE12 T119/R22
*SW1 T119/R22
* = this Page

LEGEND:
— ACTIVE MAIN
— DESIGNED MAIN
- - - PROPOSED ABANDONED/
OUT OF SERVICE MAIN
- - - ABANDONED
- - - OUT OF SERVICE MAIN

PIPE REQUIRED:
11064' 2" PE CL-6
2247' 4" PE CL-6
73' 6" PE CL-6
13384' PIPE

PROPOSED ABANDONED PIPE:
2245' 3" AA CL-6
4' 3" TR CL-6
3' 4" TR CL-6
10240' 1 1/4" AA CL-6
3' 3" STL CL-6
104' 2" AA CL-6
345' 1 1/4" TR CL-6
32' 6" STL CL-6
36' 2" PE CL-6
1' 1 1/4" STL CL-6
2' 2" TR CL-6
1' 1 1/4" PE CL-6
13016' PIPE

COPIES:
PIPELINE INTEGRITY PACKET: N
STATION MANAGER: N
DD NUMBER: N/A
CORROSION: PATRICK CARLSON
EMP: N

FOLLOW INTERNAL PIPE
SAMPLING REQUIREMENTS? Y
SURVEYOR REQUIRED? N
RETURN PACKET TO ENG? N
GFIP #: 221-2021
PERMITS: CITY OF BROOKLYN PARK
CITY OF MAPLE GROVE

PROJECT DESCRIPTION: SP74
SP74 REVER LN N

DESIGNER: Angela Cao
PHONE #: 612-321-5167
DRAWN BY: Angela Cao
DESIGN DATE: 1/13/2021

REVISION INFO:

Main
SS# SCALE 1" = 100'
SHEET 3 OF 3

EXISTING: 6" WELD ELL (F212965 2002)
@ 30' SCL 101 AVE N
8' EEC

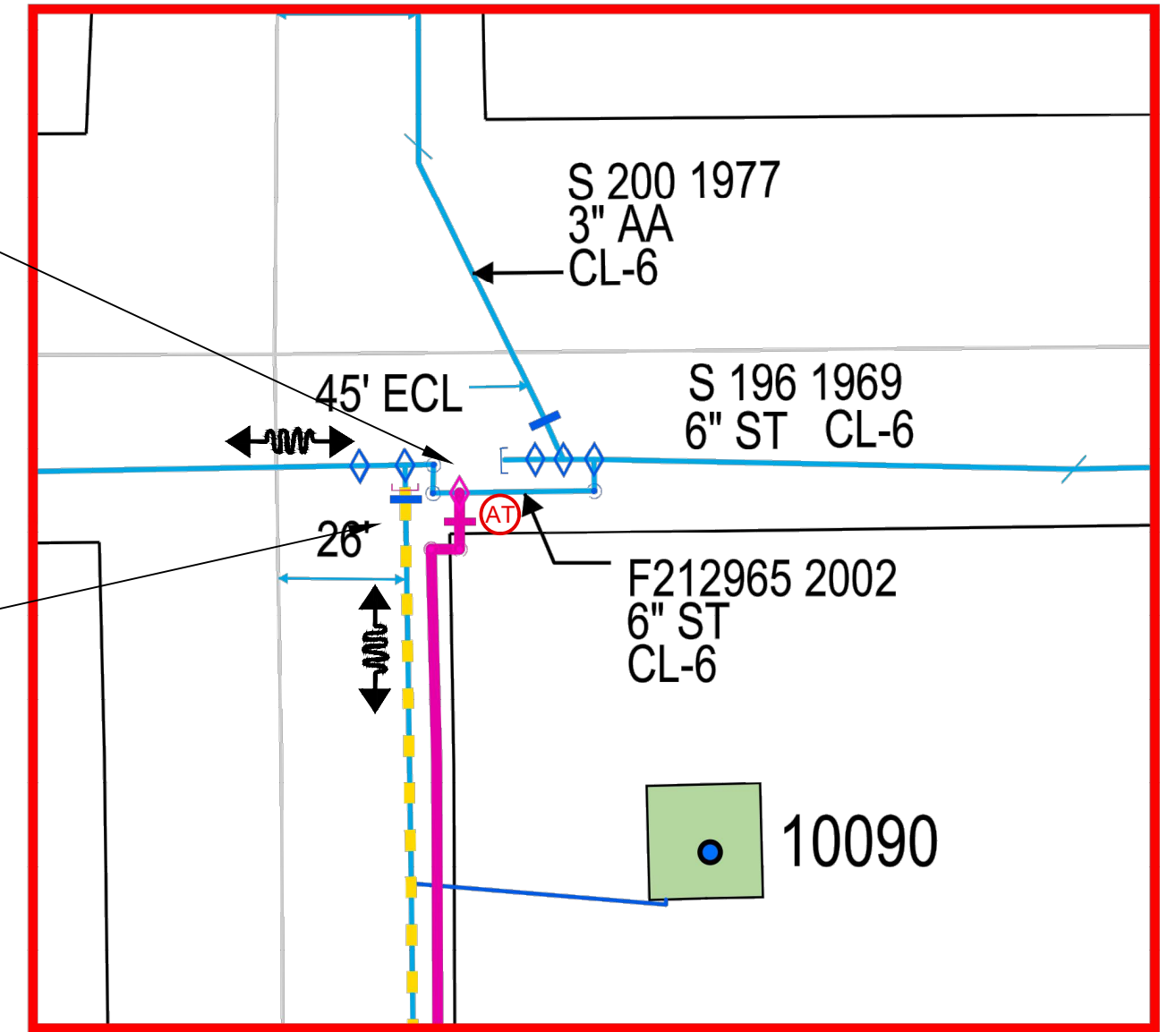
INSTALL: 2" FLAT BOTTOM 3-WAY TEE
@ EAST OF EXISTING ELL
2" TRANS/SLEEVE
(2) 2" PE 90 ELL
EXTEND: 2" PE CL-6 SOUTH

INSTALL CP TEST POINT WITH ANODE
AND LOCATING STATION USING
A ROADWAY

NOTE: OBTAIN ASBESTOS COATING
SAMPLE (F212965 2002)

EXISTING: 1-1/4" NO BLOW TEE (R2296 1980)
W/ 1-1/4" TRANS/SLEEVE
@ 27' SCL 101 AVE N
26' ECL PILGRIM WAY

CUT & ABANDON: 1-1/4" AA CL-6 SOUTH
USE: 1-1/4" WELD CAP



DETAIL "B" (NOT TO SCALE)

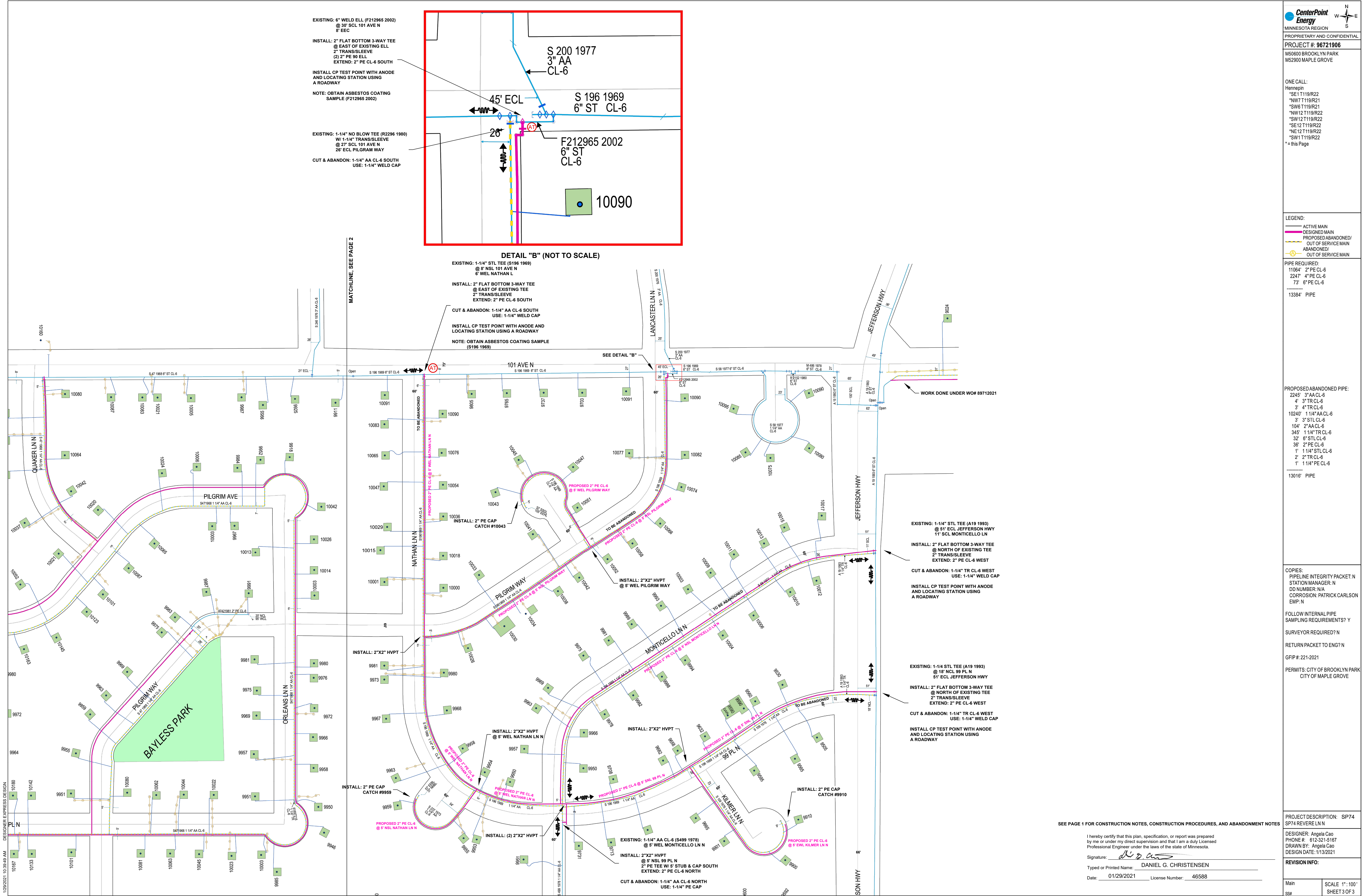
EXISTING: 1-1/4" STL TEE (S196 1969)
@ 8' NSL 101 AVE N
6' WEL NATHAN L

INSTALL: 2" FLAT BOTTOM 3-WAY TEE
@ EAST OF EXISTING TEE
2" TRANS/SLEEVE
EXTEND: 2" PE CL-6 SOUTH

CUT & ABANDON: 1-1/4" AA CL-6 SOUTH
USE: 1-1/4" WELD CAP

INSTALL CP TEST POINT WITH ANODE
AND LOCATING STATION USING A
ROADWAY

NOTE: OBTAIN ASBESTOS COATING
SAMPLE (S196 1969)



1/29/2021 10:39:49 AM
DESIGNER EXPRESS DESIGN
PLN

SEE PAGE 1 FOR CONSTRUCTION NOTES, CONSTRUCTION PROCEDURES, AND ABANDONMENT NOTES

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: *[Signature]*
Typed or Printed Name: DANIEL G. CHRISTENSEN
Date: 01/29/2021 License Number: 46588