

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.

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.

CORROSION TECH FOR AREA IS PAUL TEESELINK, CELL 612-910-1378

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.

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 end 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.

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.

ALL ABANDONED MAIN IS TO BE REMOVED. ALL PIPE IS TO BE DISPOSED OF BY CENTERPOINT ENERGY. CONTACT CHRIS LANASA (612-321-5448) TO COORDINATE DISPOSAL AND ROLL AWAY. REFER TO PACKET FOR PIPE REMOVAL PROCEDURES.

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

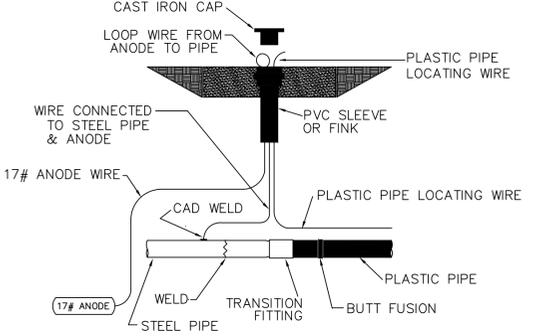
LOCATING/TRACER WIRE - PIPES

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 moldable sealant/tape. Tracer wire shall also be terminated with plastic pipes when inserting inside

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.

- NOTE: 1. Install roadway cap at final grade. 2. Allow a minimum of 10" of slack in test wires.



CenterPoint Energy logo, Minnesota Region, Proprietary and Confidential, Project # 98567562, M15600 BELLE PRAIRIE TOWNSHIP M16000 LITTLE FALLS, ONE CALL: Morrison, \*NW26 T41/R32, \*SW26 T41/R32, \* = this Page

LEGEND: ACTIVE MAIN (solid line), DESIGNED MAIN (dashed line), PROPOSED ABANDONED/OUT OF SERVICE MAIN (dotted line), ABANDONED/OUT OF SERVICE MAIN NOT PART OF THIS PROJECT (dashed line with circles), SEE NOTES

PIPE REQUIRED: 612' 4" PE CL-5, 612' PIPE

PROPOSED ABANDONED PIPE: 636' 3" STL CL-5, 636' PIPE

COPIES: PIPELINE INTEGRITY PACKET: N, STATION MANAGER: N, DD NUMBER: N/A, CORROSION: PAUL TEESELINK, EMP: N, FOLLOW INTERNAL PIPE SAMPLING REQUIREMENTS? Y, SURVEYOR REQUIRED? N, RETURN PACKET TO ENG? N, GFIP #: N/A, PERMITS: MORRISON CTY

PROJECT DESCRIPTION: SCAS Haven Road Casings, DESIGNER: Paul Jacks, PHONE #: 612-321-5077, DRAWN BY: Paul Jacks, DESIGN DATE: 9/28/2021, REVISION INFO: REV 1 10/29/2021: CHANGED PROP. DISTANCE FROM CL TO 55" WCL FOR CONSTRUCTABILITY, REV 2 10/26/2021: CHANGED PROP. DISTANCE FROM 55" WCL TO 58" WCL & MARKED PIPE FOR REMOVAL PER COUNTY REQUEST, PROJECT DESCRIPTION: SCAS Haven Road Casings, DESIGNER: Paul Jacks, PHONE #: 612-321-5077, DRAWN BY: Paul Jacks, DESIGN DATE: 9/28/2021, REVISION INFO: REV 1 10/29/2021: CHANGED PROP. DISTANCE FROM CL TO 55" WCL FOR CONSTRUCTABILITY, REV 2 10/26/2021: CHANGED PROP. DISTANCE FROM 55" WCL TO 58" WCL & MARKED PIPE FOR REMOVAL PER COUNTY REQUEST, Main, SCALE 1" = 50', SHEET 1 OF 1

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: 10/29/2021, License Number: 46588