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5/16/2018  
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PLAN LEGEND

|                     |       |
|---------------------|-------|
| RIGHT OF WAY LINE   | ---   |
| DITCH CENTERLINE    | ---   |
| FENCE LINE          | ---   |
| RETAINING WALL      | ---   |
| GRAVEL LINE         | ---   |
| GUARD RAIL LINE     | ---   |
| RAILROAD TRACK LINE |       |
| ROAD CENTERLINE     | ---   |
| TREE LINE           | ~~~~~ |
| STREAM LINE         | ~~~~~ |
| WETLAND LINE        | ---   |
| EX SANITARY LINE    | ---   |
| PR SANITARY LINE    | ---   |
| AB SANITARY LINE    | ---   |
| EX FORCEMAIN LINE   | ---   |
| PR FORCEMAIN LINE   | ---   |
| AB FORCEMAIN LINE   | ---   |
| EX STORM LINE       | ---   |
| PR STORM LINE       | ---   |
| AB STORM LINE       | ---   |
| EX WATER LINE       | ---   |
| PR WATER LINE       | ---   |
| AB WATER LINE       | ---   |
| EX GAS LINE         | ---   |
| PR GAS LINE         | ---   |
| AB GAS LINE         | ---   |
| EX STEAM LINE       | ---   |
| PR STEAM LINE       | ---   |
| AB STEAM LINE       | ---   |
| UG CABLE TV LINE    | ---   |
| AB CABLE TV LINE    | ---   |
| UG ELECTRIC LINE    | ---   |
| AB ELECTRIC LINE    | ---   |
| UG FIBEROPTIC LINE  | ---   |
| AB FIBEROPTIC LINE  | ---   |
| UG TELEPHONE LINE   | ---   |
| AB TELEPHONE LINE   | ---   |
| OH ELECTRIC LINE    | ---   |
| OH TELEPHONE LINE   | ---   |
| OH CABLE TV LINE    | ---   |

SYMBOLS

|                           |         |   |
|---------------------------|---------|---|
| EX SANITARY MANHOLE       | (SAN)   | ⊗ |
| EX SANITARY CLEANOUT      | (SAN)   | ⊗ |
| EX STORM MANHOLE          | (STRM)  | ⊗ |
| EX STORM CATCHBASIN       | (STRM)  | ⊗ |
| EX WATER MANHOLE          | (W)     | ⊗ |
| EX WATER VALVE            | (W)     | ⊗ |
| EX WATER HYDRANT          | (W)     | ⊗ |
| EX WATER SHUTOFF          | (W)     | ⊗ |
| EX WATER & GAS MH         | (W&G)   | ⊗ |
| EX GAS MANHOLE            | (GAS)   | ⊗ |
| EX GAS VALVE              | (GAS)   | ⊗ |
| EX GAS SHUTOFF            | (GAS)   | ⊗ |
| EX STEAM MANHOLE          | (STEAM) | ⊗ |
| EX TELEPHONE MANHOLE      | (T)     | ⊗ |
| EX ELECTRIC MANHOLE       | (E)     | ⊗ |
| EX POWERPOLE              | (E)     | ⊗ |
| EX LIGHT POLE             | (E)     | ⊗ |
| EX ELECTRIC VAULT         | (E)     | ⊗ |
| EX ANCHOR                 | (E)     | ⊗ |
| EX ELECTRIC TRANSFORMER   | (ET)    | ⊗ |
| EX STREET LIGHT           | (E)     | ⊗ |
| EX SIGNAL W/ STREET LIGHT | (E)     | ⊗ |
| EX HANDHOLE               | (H.H.)  | ⊗ |
| EX HANDHOLE               | (H.H.)  | ⊗ |
| EX TELEPHONE PEDESTAL     | (H.H.)  | ⊗ |
| EX WELL                   | (W)     | ⊗ |
| BENCHMARK                 | (B)     | ⊗ |
| FOUND CI MONUMENT         | (B)     | ⊗ |
| EX SIGN                   | (S)     | ⊗ |
| CONTROL POINT             | (C)     | ⊗ |
| EX DECIDUOUS TREE         | (T)     | ⊗ |
| EX CONIFEROUS TREE        | (T)     | ⊗ |
| EX PARKING METER          | (P)     | ⊗ |
| EX SOIL BORING            | (SB#)   | ⊗ |

# CITY OF DULUTH

## DEPARTMENT OF PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

CONSTRUCTION PLANS FOR:

CROSS CITY TRAIL RELOCATION

S.P. 6982-340 Agreement  
#1045951

CITY PROJECT NO. 1596



PROJECT LOCATION



THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

WARNING:  
LOCATION OF UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR. CALL BEFORE DIGGING. GOPHER STATE ONE CALL 1-800-252-1166 REQUIRED BY LAW

GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. AVAILABLE AT: <http://www.dot.state.mn.us/pre-letting/spec/index.html>

THE 2019 EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT CONSTRUCTION STANDARDS AND SUPPLEMENTS OR ADDENDUMS SHALL APPLY.

AVAILABLE AT:  
<http://www.duluthmn.gov/engineering/standard-construction-specifications/>

INDEX

| SHEET NO. | DESCRIPTION                                   |
|-----------|---|
| 1         | TITLE SHEET                                   |
| 2         | GENERAL NOTES                                 |
| 3         | GENERAL LAYOUT                                |
| 4         | STATEMENT OF ESTIMATED QUANTITIES             |
| 5         | TABULATIONS                                   |
| 7         | MISCELLANEOUS DESIGN DETAILS                  |
| 8         | STANDARD PLANS                                |
| 19        | REMOVAL AND CONSTRUCTION PLANS                |
| 25        | SWPPP   |
| 28        | TEMPORARY TRAFFIC CONTROL PLANS               |
| 36        | PAVEMENT MARKING AND SIGN PLANS               |
| 47        | CONSTRUCTION BY OTHERS (FOR INFORMATION ONLY) |

THIS PLAN CONTAINS 48 SHEETS

I HEREBY CERTIFY THAT THIS PLAN 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.

CHRISTOPHER J. BOWER

PROJECT ENGINEER (TYPED OR PRINTED NAME)

|                  |          |          |
|------------------|----------|----------|
|                  | 10/26/20 | 52599    |
| PROJECT ENGINEER | DATE     | LIC. NO. |

CITY APPROVAL

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| DocuSigned by:<br>                   | 11/24/2020                            |
| APPROVED 3834EA...<br>DocuSigned by: | CHIEF ENGINEER OF TRANSPORTATION DATE |
| DocuSigned by:<br>                   | 11/24/2020                            |
| APPROVED 3834EA...<br>DocuSigned by: | CHIEF ENGINEER OF UTILITIES DATE      |
| DocuSigned by:<br>                   | 11/24/2020                            |
| APPROVED 3834EA...<br>DocuSigned by: | CITY ENGINEER DATE                    |