

MINNESOTA DEPARTMENT OF TRANSPORTATION

CITY OF SAINT PAUL AND WEST ST. PAUL

ANNAPOLIS STREET RECONSTRUCTION

WEST ST. PAUL CITY PROJECT NO. 23-1

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

THE LATEST EDITION OF THE MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION IS FURTHER AMENDED BY THE 2018 EDITION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA STANDARD SPECIFICATIONS.

CP 23-1, SAP 173-126-001 & SAP 164-282-003 LOCATED ON: ANNAPOLIS ST. FROM SMITH AVE. S TO KANSAS AVE.

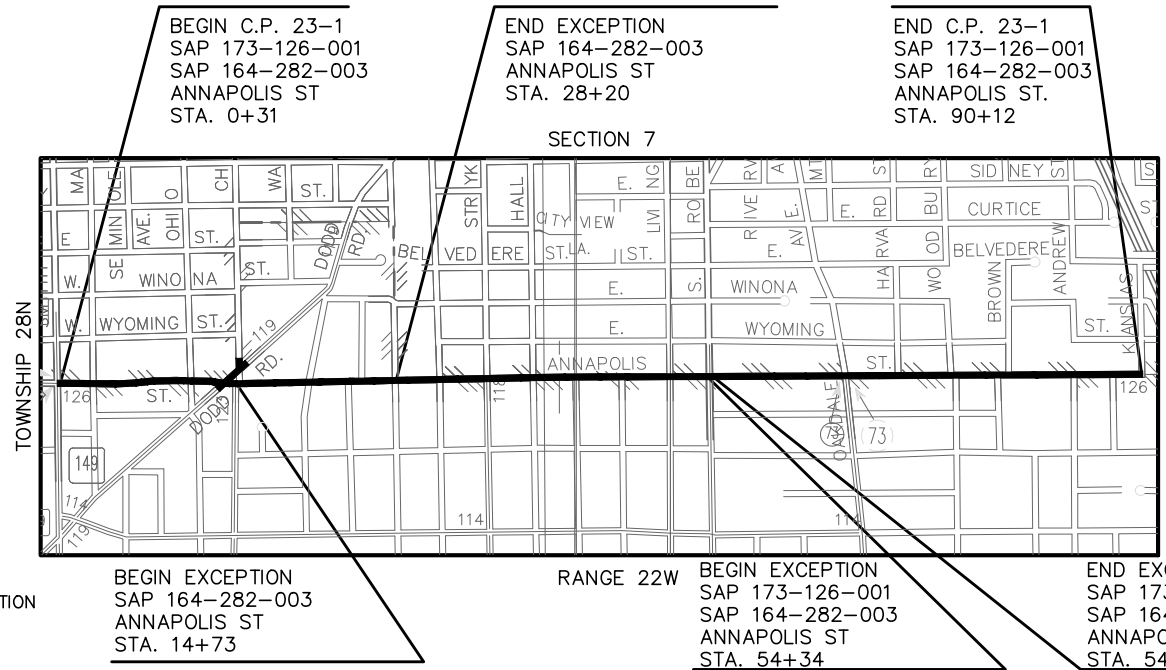
INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2-4	STATEMENT OF ESTIMATED QUANTITIES
5	GENERAL NOTES, STANDARD PLATES, UTILITY CONTACTS
6-7	EARTHWORK SUMMARY
8-13	CITY STANDARD PLATES
14-23	MnDOT STANDARD PLANS
24-25	TYPICAL SECTIONS
26-29	DRAINAGE DETAILS
30-36	ALIGNMENT PLAN PLAN AND TABULATIONS
37-41	TRAFFIC CONTROL AND DETOUR PLAN
42-44	STORM WATER POLLUTION PREVENTION PLAN
45-52	REMOVAL AND EROSION CONTROL PLAN
53-67	STREET AND STORM SEWER PLAN AND PROFILES
68-82	SANITARY SEWER AND WATERMAIN PLAN AND PROFILES
83-89	STORM SEWER LATERALS AND TABULATION
90-91	SANITARY SEWER TABULATIONS
92-99	SUPERELEVATION PLAN
100-115	INTERSECTION DETAIL PLAN
116-121	TRAFFIC SIGNAL PLANS
122-162	SIGNING AND STRIPING PLANS
163-180	STREET LIGHTING PLANS
181-193	LANDSCAPING PLAN
194-216	CROSS SECTIONS

LEGEND

- EXISTING GATE VALVE
- EXISTING HYDRANT
- EXISTING CURB BOX
- EXISTING WATERMAIN MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING GAS MANHOLE
- EXISTING CATCH BASIN
- EXISTING POWER POLE
- SOIL BORING
- EXISTING CABLE TV BOX
- EXISTING TELEPHONE BOX
- EXISTING ELECTRICAL MANHOLE
- EXISTING ELECTRICAL TRANSFORMER
- EXISTING LIGHT POLE
- EXISTING MAILBOX
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- EXISTING CURB AND GUTTER
- EXISTING FIBER OPTIC
- EXISTING GAS MAIN
- EXISTING OVERHEAD POWER/COMMUNICATION
- EXISTING UNDERGROUND POWER
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING STREET SIGN
- PROPOSED GATE VALVE
- PROPOSED HYDRANT
- PROPOSED MANHOLE (STORM OR SANITARY)
- PROPOSED CATCH BASIN
- PROPOSED WATERMAIN
- PROPOSED STORM SEWER
- PROPOSED CURB AND GUTTER
- PROPOSED RETAINING WALL
- DRAIN TILE
- EXISTING RIGHT-OF-WAY
- TEMPORARY CONSTRUCTION EASEMENT
- CONSTRUCTION LIMITS
- PERMANENT EASEMENT

CONSTRUCTION PLANS FOR: GRADING, BITUMINOUS SURFACING, AGGREGATE BASE, CURB & GUTTER, CONCRETE SIDEWALK, STORM SEWER AND UTILITY IMPROVEMENTS



PLAN SET SCALES

LOCATION MAP	0 400 800 1600 1"=800'
ALIGNMENT	0 50 100 200 1"=100'
PLAN	0 15 30 60 1"=30'
PROFILE	0 5 10 20 1"=10'
CROSS-SECTIONS	0 5 10 20 1"=10'

DESIGN DESIGNATION: ANNAPOLIS ST. (CP 23-1, SAP 173-126-001, SAP 164-282-003)
 STA. 0+31 TO 90+12

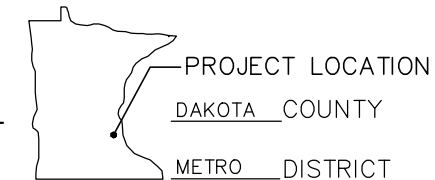
Functional Classification: OTHER ARTERIAL

No. of Traffic Lanes = 2 No. of Parking Lanes = 1 (SMITH AVE TO FELIX ST)
0 (FELIX ST TO KANSAS AVE)

ADT (Current Year) 2023 = 3,800-4,350 (SMITH AVE TO ROBERT ST)
 ADT (Current Year) 2023 = 960-1,571 (ROBERT ST TO KANSAS AVE)
 ADT (Future Year) 2043 = 4,945 (SMITH AVE TO ROBERT ST)
 ADT (Future Year) 2043 = 1,990 (ROBERT ST TO KANSAS AVE)

Design Speed 35 mph Based on STOPPING Sight Distance
 DHV (Design Hr. Vol.) = N/A Height of eye 3.5 Height of Object 2.0
 D (Directional Distr.) = 50%
 Design Speed not achieved at: INTERSECTION AT DODD RD STA.17+05.96 TO STA.19+05.96 MPH 30
 T (Heavy Commercial) = 3.57%
 R-Value 20 20 YR BESALS 489,000 Design Load 10 ton

ANNAPOLIS ST. - SAP 173-126-001	GROSS LENGTH	<u>8981</u>	FEET	<u>1.701</u>	MILES
	EXCEPTION LENGTH	<u>61</u>	FEET	<u>0.012</u>	MILES
	NET LENGTH	<u>8920</u>	FEET	<u>1.689</u>	MILES
ANNAPOLIS ST. - SAP 164-282-003	GROSS LENGTH	<u>8981</u>	FEET	<u>1.701</u>	MILES
	EXCEPTION LENGTH	<u>1408</u>	FEET	<u>0.267</u>	MILES
	NET LENGTH	<u>7573</u>	FEET	<u>1.434</u>	MILES



NOTE:
 THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY 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".

THE EXACT LOCATION OF UNDERGROUND UTILITIES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE PRIOR TO STARTING ANY EXCAVATION.

GOPHER STATE ONE CALL SYSTEM.....1-800-252-1166

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

STATE AID PROJ. NO. 173-126-001 & 164-282-003

THIS PLAN SET CONTAINS 216 SHEETS



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.
 DATE 01/06/2023 LIC. NO. 54190

ENGINEER Luke Moren
 LUKE B. MOREN, P.E.

APPROVED _____ 2023
 CITY OF SAINT PAUL ENGINEER

APPROVED RAB January 17, 2023
 CITY OF WEST ST. PAUL ENGINEER

APPROVED _____ 2023
 ST. PAUL REGIONAL WATER SERVICES ENGINEER

 DISTRICT STATE AID ENGINEER:
 REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY

 STATE AID ENGINEER:
 APPROVED FOR STATE AID FUNDING

SHEET NO. 1 OF 216 SHEETS