



MINNESOTA DEPARTMENT OF TRANSPORTATION

SCOTT COUNTY CSAH 83 IMPROVEMENTS COUNTY PROJECT NO. 83-24

90% PLAN SUBMITTAL
JANUARY 17, 2020

NOTE:
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-2, 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

S.P. 166-020-020 LOCATED ON: 12TH AVE FROM CSAH 83 TO 700' EAST OF CSAH 83

S.P. 070-683-014 LOCATED ON: CSAH 83 (CANTERBURY RD) FROM TH 169 TO 600' NORTH OF VALLEY INDUSTRIAL BLVD SOUTH

S.P. 166-123-003

CONSTRUCTION PLAN FOR GRADING, AGGREGATE BASE, CONCRETE SURFACING, BITUMINOUS SURFACING, ADA IMPROVEMENTS, UTILITY IMPROVEMENTS, WATER MAIN, SIGNAL, AND LANDSCAPING.

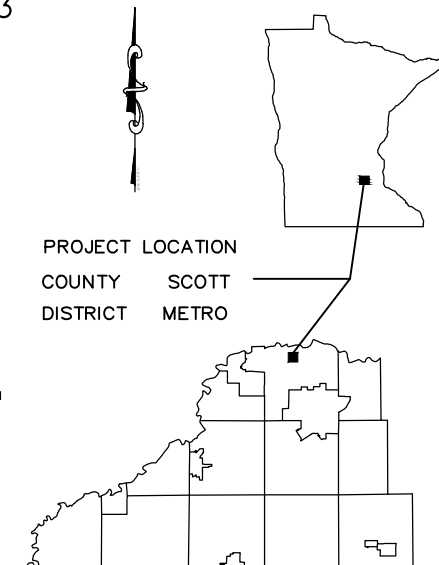
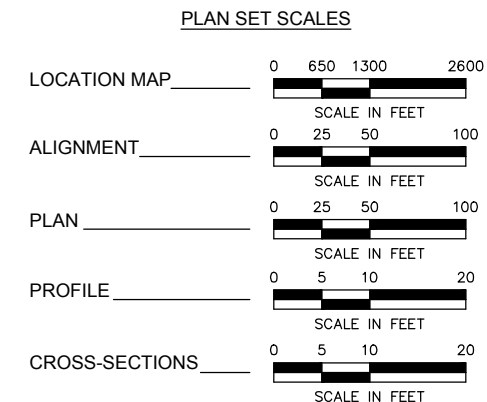
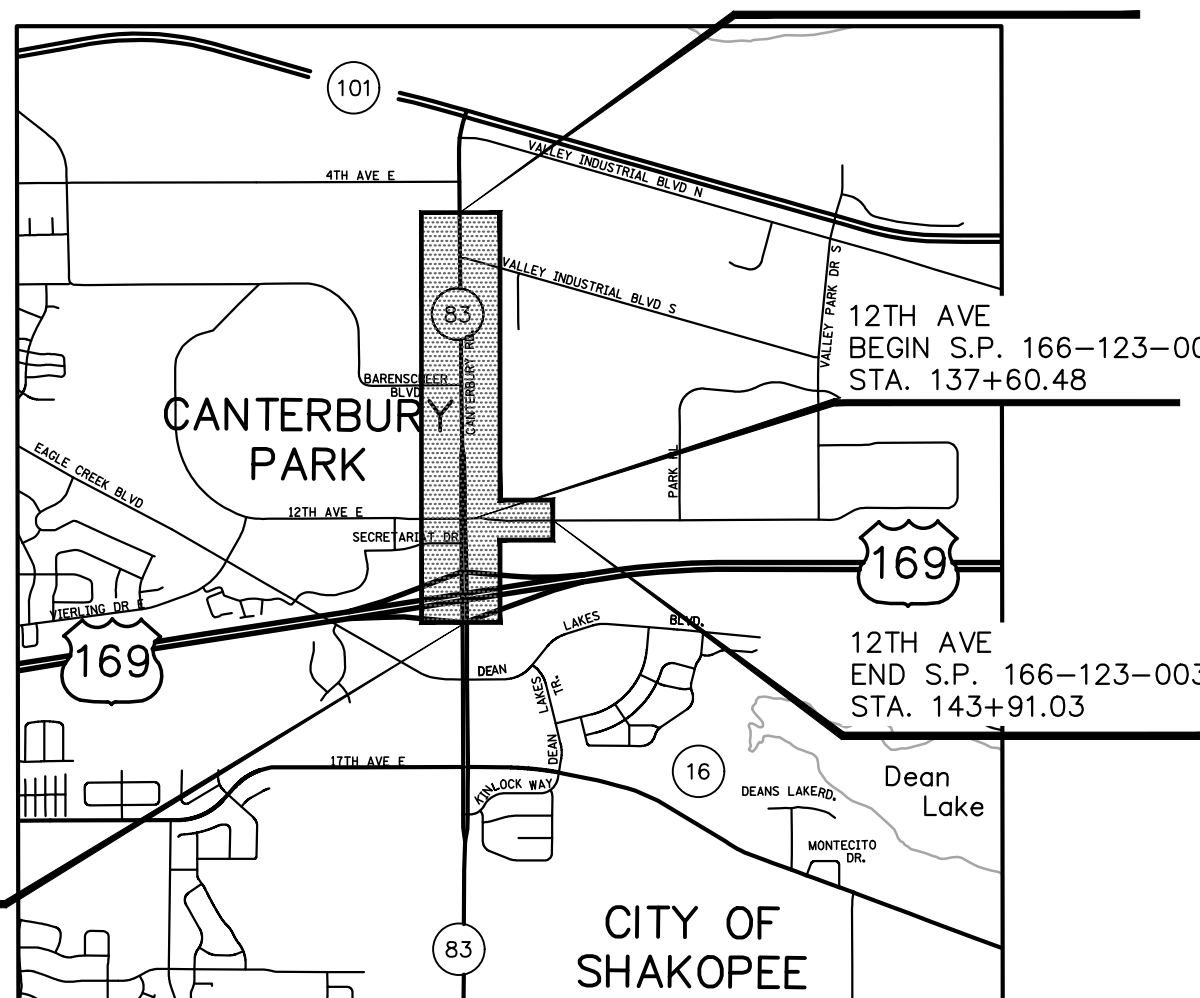
CSAH 83
END C.P. 83-24
END S.P. 070-683-014,
166-020-020
STA. 64+97.23

AGREEMENT NO.: 1035136
WITH SCOTT COUNTY
S.P. 070-683-014 (TH 169=005)
XXXX
METRO DISTRICT

CSAH 83
COUNTY PROJECT NO. 83-24
STATE PROJ. NO. 070-683-014
STATE PROJ. NO. 166-020-020
GROSS LENGTH 5581.80 FEET 1.06 MILES
BRIDGE LENGTH 0 FEET 0.00 MILES
EXCEPTION LENGTH 0 FEET 0.00 MILES
NET LENGTH 5581.80 FEET 1.06 MILES
REF POINT 112+00.732

12TH AVENUE
STATE PROJ. NO. 166-123-003
GROSS LENGTH 630.55 FEET 0.12 MILES
BRIDGE LENGTH 0 FEET 0.00 MILES
EXCEPTION LENGTH 0 FEET 0.00 MILES
NET LENGTH 630.55 FEET 0.12 MILES

CSAH 83
BEGIN C.P. 83-24
BEGIN S.P. 070-683-014,
166-020-020
STA. 9+15.43



DESIGN DESIGNATION: 12TH AVENUE
S.P. 166-123-003
STA. 137+60.48 TO 143+91.03

Present ADT (2020) = 6,400
Projected ADT (2040) = 14,300
Functional Classification: MAJOR COLLECTOR
No. of Traffic Lanes = 4
No. of Parking Lanes = 0
Shoulder Width = 1.5'
Structural Design Strength = 10 tons
R-Value Designed: 50 20 YR ESALS 1,118,000
Designed Speed 30 mph
Based on STOPPING Sight Distance
Height of eye 3.5' Height of Object 2.0'

DESIGN DESIGNATION: TRAIL - C.P. 83-24, S.P. 070-683-014, 166-020-020
Functional Classification: TRAIL
Designed Speed 20 mph Based on Stopping Sight Distance Height of eye 4.5' Height of Object 0.0'
Speed not achieved at: N.A.

DESIGN DESIGNATION: CSAH 83 - C.P. 83-24, S.P. 070-683-014, 166-020-020
STA. 9+15.43 TO 64+97.23

Present ADT (2020) = 18,800 Projected ADT (2040) = 27,100
Functional Classification: MINOR ARTERIAL
No. of Traffic Lanes = 4 No. of Parking Lanes = 0
Shoulder Width = 4'-10' Structural Design Strength = 10 tons
R-Value Designed N.A. 35 YR CONCRETE DESIGN ESALS 12,549,858
Designed Speed 50 mph Based on Stopping Sight Distance Height of eye 3.5' Height of Object 2.0'
Speed not achieved at: N.A.

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, OF THIS PLAN WERE MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ENGINEER _____
DATE _____ REG. NO. _____

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

COUNTY PROJ. NO. 83-24
STATE PROJ. NO. 070-683-014 (TH 169=005)
STATE PROJ. NO. 166-020-020
STATE PROJ. NO. 166-123-003

MINN. PROJ. NO. XXXXXX

GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL SIGNING AND DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2 - 3	STATEMENT OF ESTIMATED QUANTITIES
4	GENERAL NOTES STANDARD PLATES AND TABULATION INDEX
5 - 6	QUANTITY TABULATIONS
7 - 11	UTILITY TABULATIONS
12 - 14	EARTHWORK SUMMARY AND TABULATIONS
15 - 16	MISCELLANEOUS DETAILS
17 - 18	GENERAL LAYOUT
19 - 30	TYPICAL SECTIONS
31 - 40	ALIGNMENT PLANS AND TABULATIONS
41 - 54	TRAFFIC CONTROL PLANS
55 - 60	RIGHT OF WAY PLANS
61 - 66	INPLACE CONDITIONS PLANS
67 - 69	STORM WATER POLLUTION PREVENTION PLANS
70 - 76	EROSION CONTROL AND TURF ESTABLISHMENT PLANS
77 - 90	SEDIMENT CONTROL STANDARD PLANS
91 - 97	REMOVAL PLANS
98 - 103	SANITARY SEWER & WATERMAIN PLAN AND PROFILE
104	SANITARY SEWER & WATERMAIN LATERALS
105 - 110	DRAINAGE PLAN AND PROFILES
111 - 115	DRAINAGE STORM SEWER LATERALS
116 - 118	DRAINAGE TABULATIONS
119	DRAINAGE DETAILS
120 - 123	GRADING PLANS
124 - 131	CONSTRUCTION PLANS
132 - 140	CONSTRUCTION PROFILES
141 - 152	PAVEMENT JOINT PLANS
153 - 157	CONCRETE PAVING STANDARD PLANS
158 - 163	INTERSECTION DETAILS
164 - 169	PEDESTRIAN CURB RAMP STANDARD PLANS
170 - 198	SIGNING AND PAVEMENT MARKING PLANS
199 - 203	SIGNING STANDARD PLANS
204 - 252	TRAFFIC SIGNAL PLANS
253 - 263	RETAINING WALLS
264 - 316	CROSS SECTIONS

THIS PLAN SET CONTAINS 316 SHEETS

Kimley»Horn

767 EUSTIS STREET, SUITE 100,
ST. PAUL, MN 55114
PHONE: 651-645-4197
WWW.KIMLEY-HORN.COM

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.

DATE _____ LIC. NO. 41864

ENGINEER _____
CHADD B. LARSON, PE

APPROVED _____ 2020
SCOTT COUNTY ENGINEER

APPROVED _____ 2020
CITY OF SHAKOPEE ENGINEER

RECOMMENDED FOR APPROVAL _____ 2020
DISTRICT TRANSPORTATION ENGINEER

RECOMMENDED FOR APPROVAL _____ 2020
DISTRICT MATERIALS ENGINEER

RECOMMENDED FOR APPROVAL _____ 2020
DISTRICT WATER RESOURCES/HYDRAULICS ENGINEER

RECOMMENDED FOR APPROVAL _____ 2020
DISTRICT TRAFFIC ENGINEER

RECOMMENDED FOR APPROVAL _____ 2020
STATE BRIDGE ENGINEER

RECOMMENDED FOR APPROVAL _____ 2020
FOR STATE PRE-LETTING ENGINEER

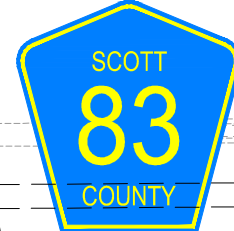
OFFICE OF LAND
MANAGEMENT APPROVAL _____ 2020
DIRECTOR, LAND MANAGEMENT

APPROVED _____ 2020
STATE DESIGN ENGINEER

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

APPROVED FOR STATE AID AND FEDERAL AID FUNDING: STATE AID ENGINEER

SHEET NO. 1 OF 316 SHEETS



TH 169 SW RAMP

TH 169 NW RAMP

TH 169 SE RAMP

TH 169 NW RAMP

TH 169 NE RAMP

AMERICAS BEST
VALUE INN & SUITES

SECRETARIAT DR

SECRETARIAT DR

EB 12th AVE

WB 12th AVE

MCDONALD'S

AMERICINN

CULVER'S

SUPERAMERICA

CANTERBURY
MALL

ASHLEY
HOME
STORE

UNITED
PROPERTIES

CURVE INFO
R=22442.84'
L=400.00'
Δ=1°1'16"

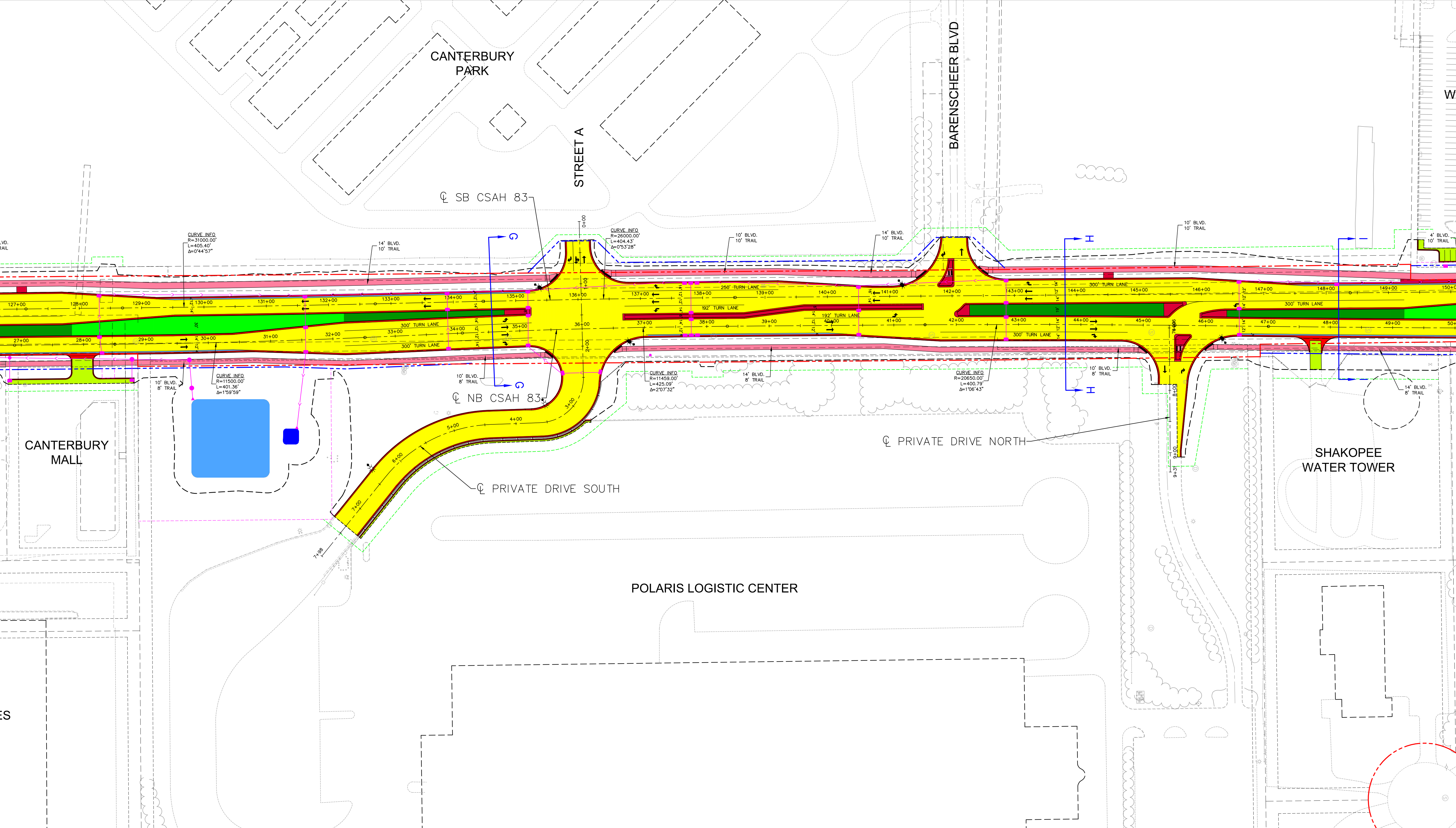
RETAINING WALL

CURVE INFO
R=19427.29'
L=400.00'
Δ=1°10'47"

CURVE INFO
R=26099.71'
L=402.58'
Δ=0°53'02"

CURVE INFO
R=21652.42'
L=400.00'
Δ=1°03'30"





CANTERBURY
PARK

STREET A

BARENSCHEER BLVD

☐ SB CSAH 83

CURVE INFO
R=31000.00'
L=405.40'
Δ=0°44'57"

14' BLVD.
10' TRAIL

CURVE INFO
R=26000.00'
L=404.43'
Δ=0°53'28"

10' BLVD.
10' TRAIL

14' BLVD.
10' TRAIL

10' BLVD.
10' TRAIL

4' BLVD.
10' TRAIL

10' BLVD.
8' TRAIL

CURVE INFO
R=11500.00'
L=401.36'
Δ=1°59'59"

☐ NB CSAH 83

10' BLVD.
8' TRAIL

CURVE INFO
R=11459.00'
L=425.09'
Δ=2°07'32"

14' BLVD.
8' TRAIL

CURVE INFO
R=20650.00'
L=400.79'
Δ=1°06'43"

10' BLVD.
8' TRAIL

14' BLVD.
8' TRAIL

CANTERBURY
MALL

☐ PRIVATE DRIVE NORTH

☐ PRIVATE DRIVE SOUTH

SHAKOPEE
WATER TOWER

POLARIS LOGISTIC CENTER

VALLEY GREEN
WORKFORCE CENTER

SOWLES

COKEM
INTERNATIONAL

4TH AVE E

UNBRIDLED AVE

CURVE INFO
R=29550.00'
L=404.50'
 $\Delta=0^{\circ}47'03''$

CURVE INFO
R=13750.00'
L=473.88'
 $\Delta=1^{\circ}58'29''$

CURVE INFO
R=17000.00'
L=437.96'
 $\Delta=1^{\circ}28'34''$

CURVE INFO
R=15000.00'
L=400.00'
 $\Delta=1^{\circ}31'40''$

CURVE INFO
R=44500.00'
L=546.07'
 $\Delta=0^{\circ}42'11''$

CURVE INFO
R=40000.00'
L=400.00'
 $\Delta=0^{\circ}34'23''$

SHAKOPEE
WATER TOWER

NORTEK AIR
SOLUTIONS

KORE-TEK

ANCHOR G
CONTAIN
CORPORAT

VALLEY INDUSTRIAL BLVD S

VALLEY INDUSTRIAL BLVD S

