# Appendix A
# Detailed RVSDS Schematic

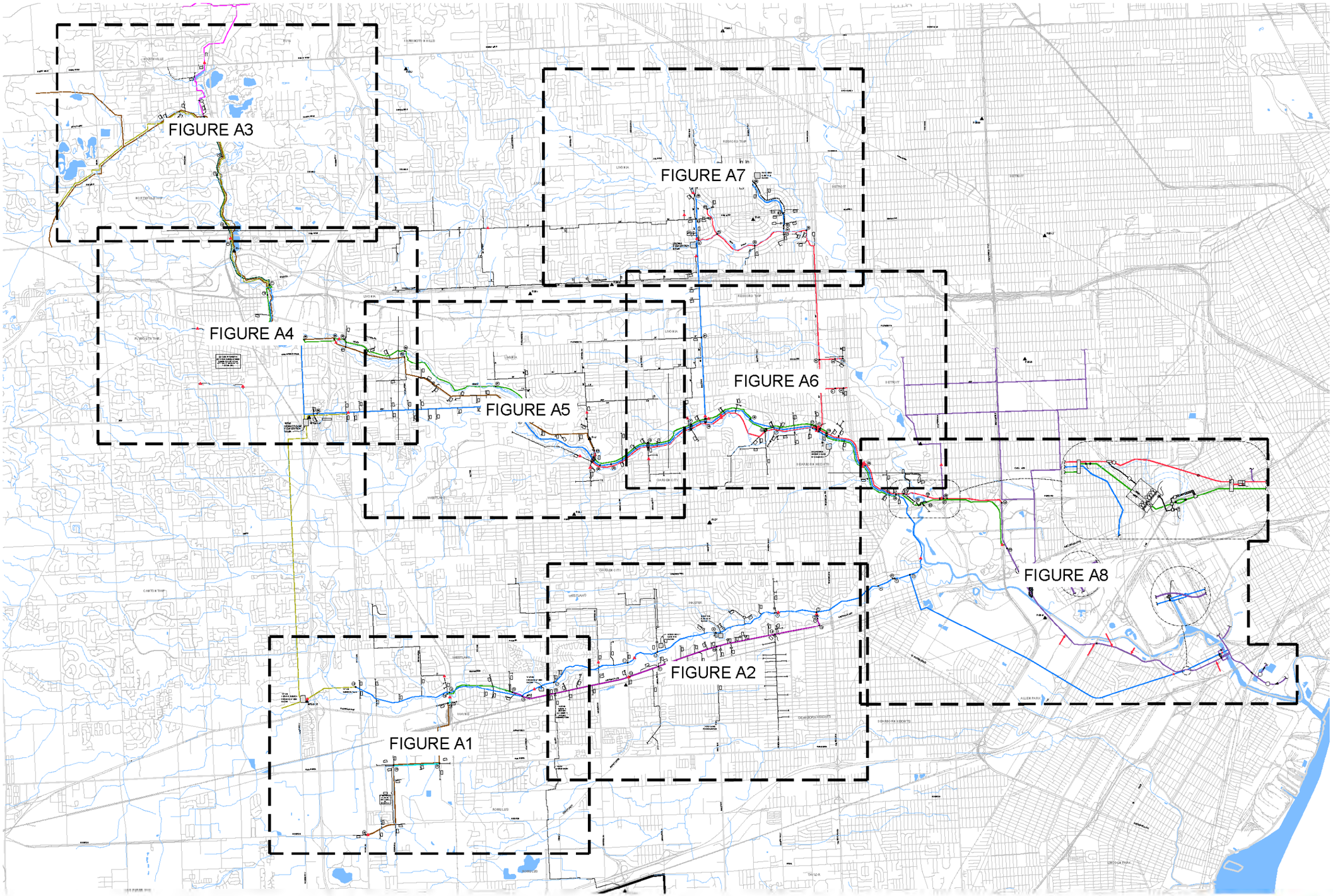



FIGURE 2-1
ROUGE VALLEY SEWAGE DISPOSAL SYSTEM
# INTERCEPTOR SCHEMATIC

SYSTEM
MONITORING
INDEX SHEET

REVISION DATE: FEBRUARY 22, 2017

WESTLAND
WAYNE
ROMULUS
PALMER
GLENWOOD
MICHIGAN AVE
VAN BORN
ECORSE
ANNAPOLIS
HANNAN
NEWBURGH
HAGGERTY
4TH STREET
VENOY
HENRY RUFF
COGWELL
WTUA LOWER ROUGE EQUALIZATION BASIN
FE-19
TO RVSDS
TO YCUA
WTUA-LR
WTUA CONNECTION
WE-25
P-17
P-19
P-15
WAYNE EQUALIZATION BASIN
Reg 53 (L-34)
Reg 52 (L-35)
Reg 50 (L-36)
Reg 51 (L-37)
WAYNE COUNTY AIRPORT AUTHORITY (WCAA) CONNECTION
WCAA FORCEMAIN
24 INDIVIDUAL LEADS ON BOTH SIDES OF COGSWELL
MATCH LINE - FIGURE A2

N
W E
S

GRAPHIC SCALE
1,000 0 1,000
1" = 1,000'

## LEGEND

- REGULATOR
- FLOW METER
- JUNCTION
- (1) JUNCTION ID
- [X-XX] LINE CONNECTION ID
- COMMUNITY SEWER
- WAYNE-ROMULUS-VAN BUREN INTERCEPTOR (W-R-V I)
- WAYNE INTERCEPTOR (WI-1)
- WAYNE INTERCEPTOR EXTENSION (WIE)
- LOWER ROUGE INTERCEPTOR RELIEF (LRIR)
- ROUGE VALLEY INTERCEPTOR (RVI)
- WTUA INTERCEPTOR SYSTEM
- COMMUNITY BOUNDARY
- EQUALIZATION BASIN

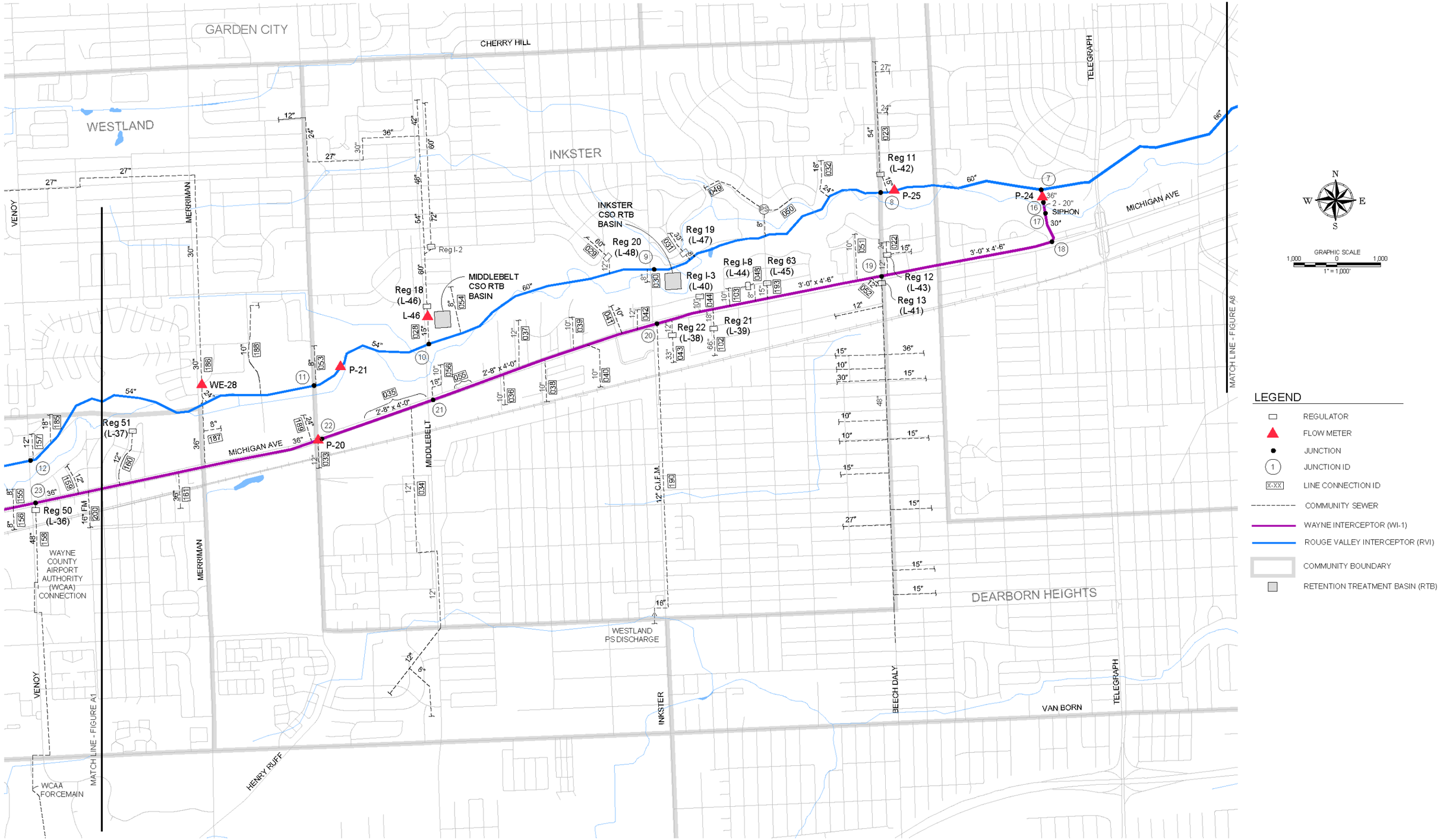
ROUGE VALLEY SEWAGE DISPOSAL SYSTEM

# LOWER ROUGE INTERCEPTOR SCHEMATIC HANNAN TO VENOY

SYSTEM MONITORING PLAN
FIGURE A1 OF 8

REVISION DATE: FEBRUARY 22, 2017

K:\DWG\Fieldo\2015\15\RVSDS SYSTEM MONITORING PLAN (to WWTP).dwg Feb 22, 2017 - 12:26pm



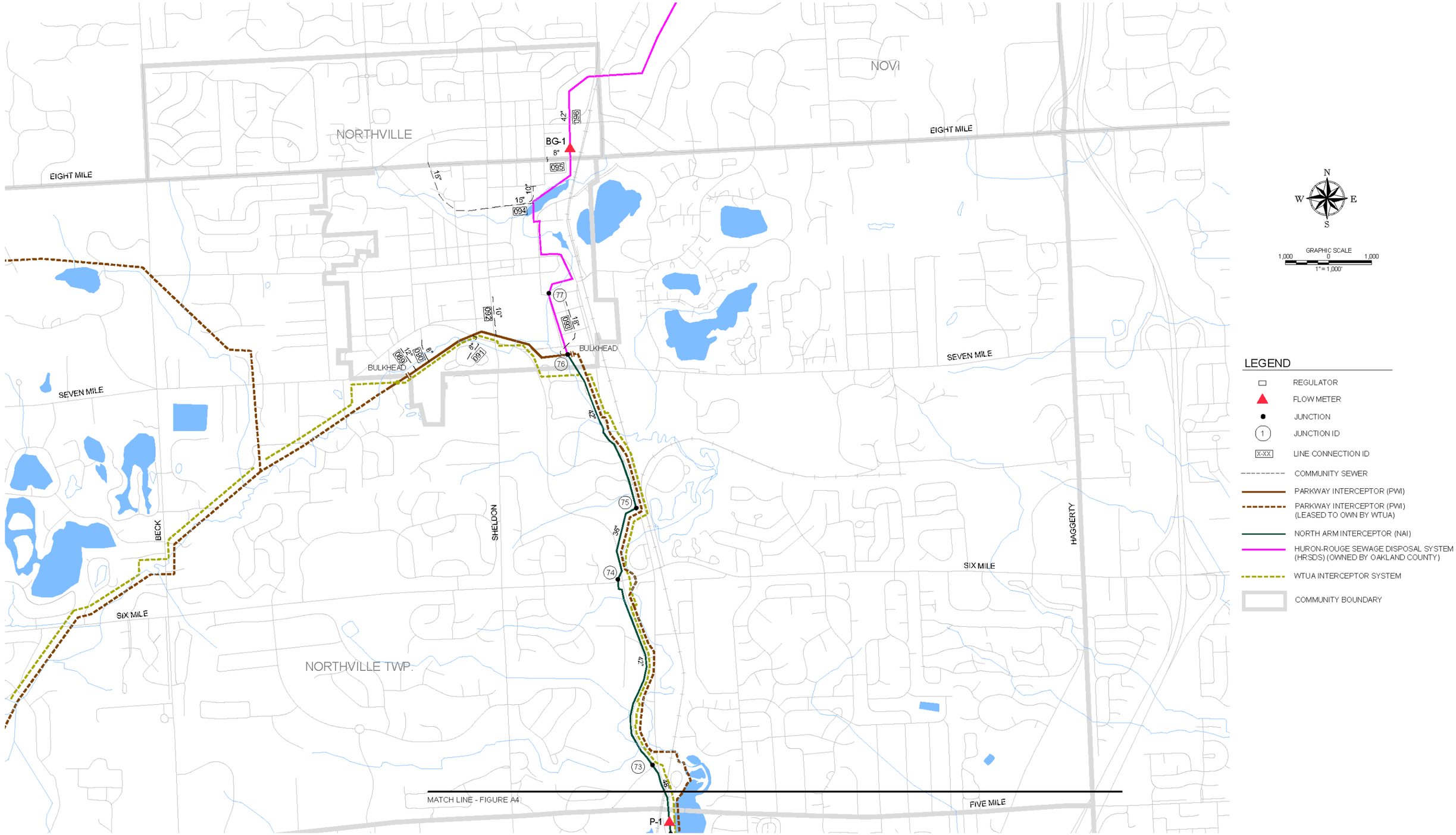

ROUGE VALLEY SEWAGE DISPOSAL SYSTEM

# LOWER ROUGE INTERCEPTOR SCHEMATIC VENOY TO TELEGRAPH

SYSTEM MONITORING PLAN

FIGURE A2 OF 8

REVISION DATE: MAY 18, 2017




ROUGE VALLEY SEWAGE DISPOSAL SYSTEM

# MIDDLE ROUGE INTERCEPTOR SCHEMATIC NORTHVILLE TO 5 MILE ROAD

SYSTEM MONITORING PLAN

FIGURE A3 OF 8

REVISION DATE: FEBRUARY 22, 2017

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MATCH LINE - FIGURE A3

FIVE MILE

WILCOX

SCHOOLCRAFT

LIVONIA

PLYMOUTH

PLYMOUTH TWP.

ANN ARBOR TRAIL

BULKHEAD

HINES

NEWBURGH

JOY

P-1

P-3

P-26

FE-22

A

B

C

WEIR

12" FM
WTUA-MR

CITY OF PLYMOUTH
METERED CONNECTIONS
CONVEYED BY WTUA
INTERCEPTOR SYSTEM
TO THE RVI

WTUA
MIDDLE ROUGE
EQUALIZATION
BASIN

MATCH LINE - FIGURE A5

N
W E
S

GRAPHIC SCALE
1,000 0 1,000
1" = 1,000'

## LEGEND

- REGULATOR
- FLOW METER
- JUNCTION
- (1) JUNCTION ID
- [X-XX] LINE CONNECTION ID
- COMMUNITY SEWER
- PARKWAY INTERCEPTOR (PWI)
- PARKWAY INTERCEPTOR (PWI) (LEASED TO OWN BY WTUA)
- ROUGE VALLEY INTERCEPTOR (RVI)
- ROUGE VALLEY INTERCEPTOR (RVI) (LEASED TO OWN BY WTUA)
- MIDDLE ROUGE INTERCEPTOR RELIEF (MRIR)
- NORTH ARM INTERCEPTOR (NAI)
- WTUA INTERCEPTOR SYSTEM
- COMMUNITY BOUNDARY
- EQUALIZATION BASIN

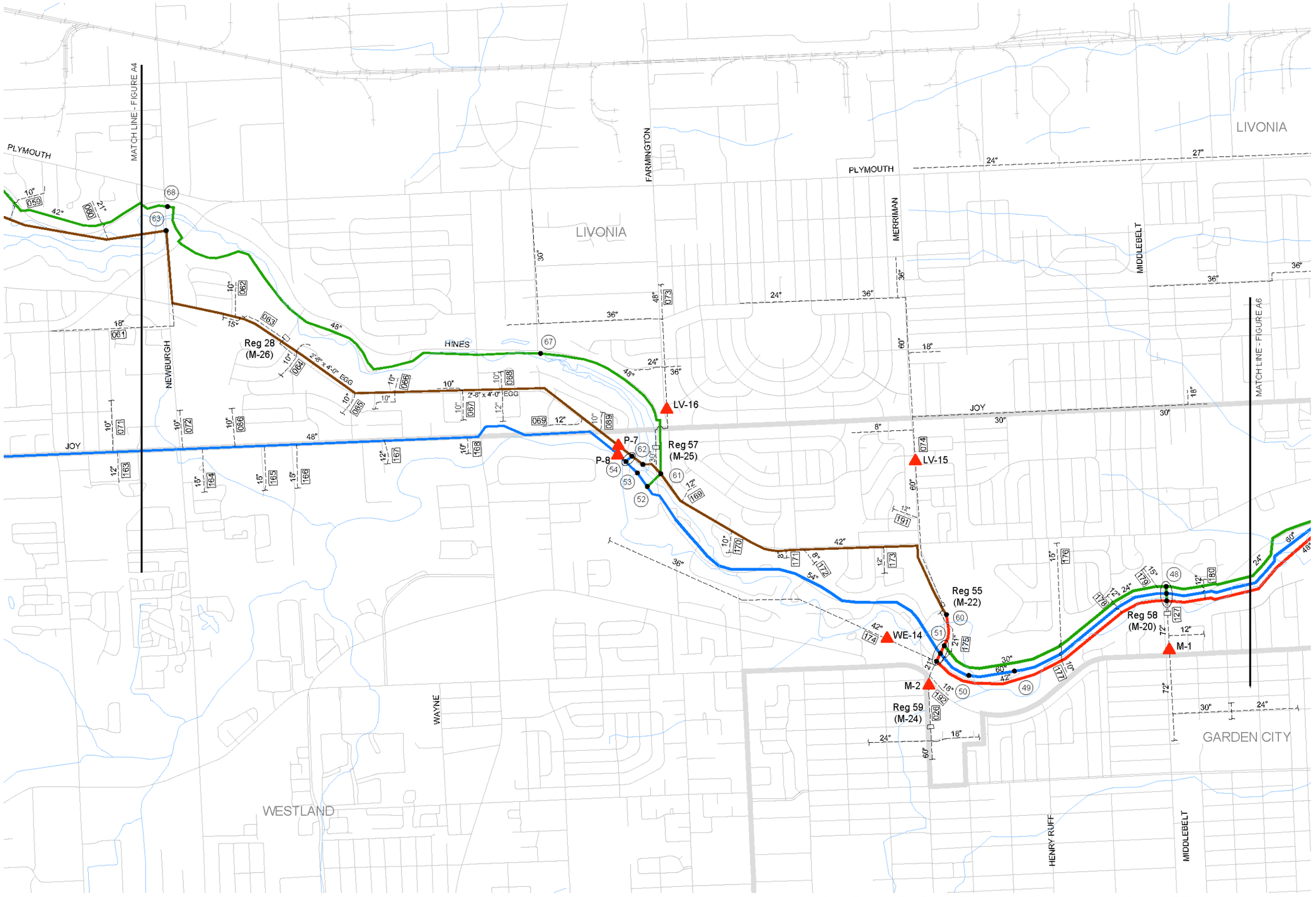
ROUGE VALLEY SEWAGE DISPOSAL SYSTEM

# MIDDLE ROUGE INTERCEPTOR SCHEMATIC
# 5 MILE ROAD TO NEWBURGH

SYSTEM
MONITORING PLAN
FIGURE A4 OF 8

REVISION DATE: FEBRUARY 22, 2017

K:\DWGFiles\2015\1510\RVSDS SYSTEM MONITORING PLAN (to WWTP).dwg Feb 22, 2017 - 12:28pm




## LEGEND

- REGULATOR
- FLOW METER
- JUNCTION
- (1) JUNCTION ID
- X-XX LINE CONNECTION ID
- COMMUNITY SEWER
- PARKWAY INTERCEPTOR (PWI)
- MIDDLE ROUGE PARKWAY INTERCEPTOR EXTENSION (MRPIE)
- ROUGE VALLEY INTERCEPTOR (RVI)
- MIDDLE ROUGE INTERCEPTOR RELIEF (MRIR)
- COMMUNITY BOUNDARY

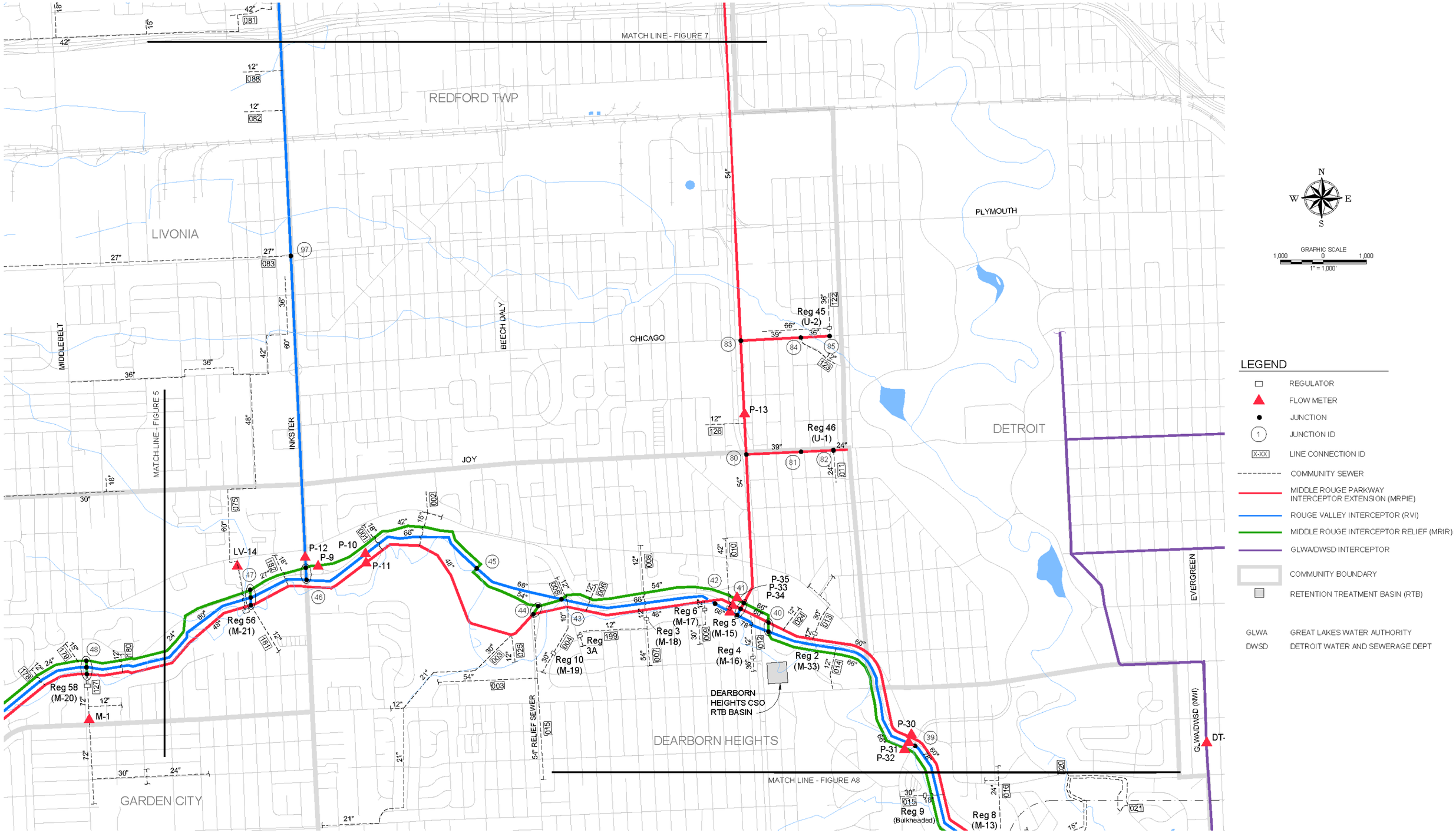
ROUGE VALLEY SEWAGE DISPOSAL SYSTEM

# MIDDLE ROUGE INTERCEPTOR SCHEMATIC NEWBURGH TO MIDDLEBELT

SYSTEM MONITORING PLAN
FIGURE A5 OF 8

REVISION DATE: FEBRUARY 22, 2017

H:\DWG\Files\DWG\151\R\PSDS SYSTEM MONITORING PLAN (to WWTP).dwg Feb 22, 2017 - 12:32pm



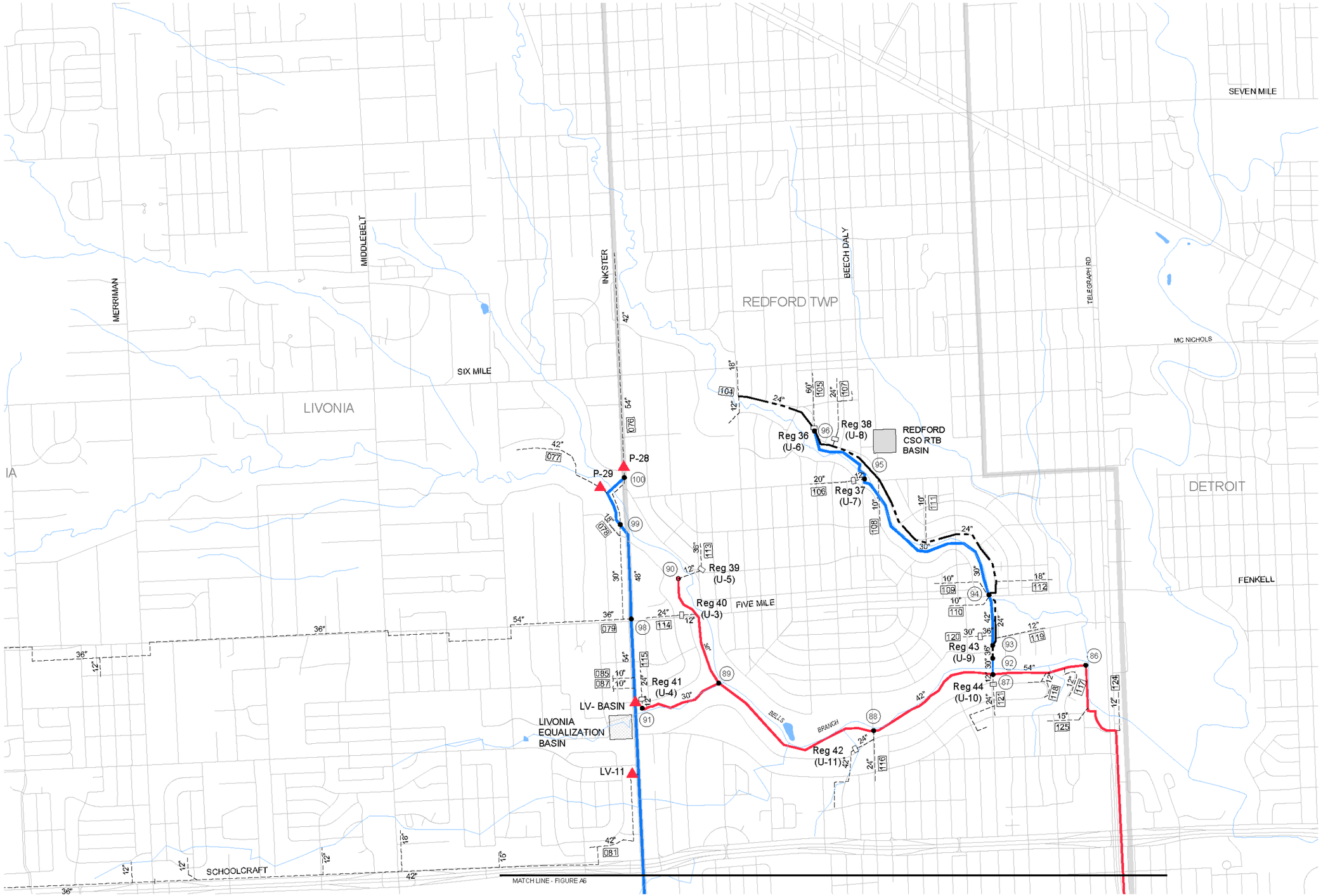

ROUGE VALLEY SEWAGE DISPOSAL SYSTEM

# MIDDLE ROUGE INTERCEPTOR SCHEMATIC MIDDLEBELT TO OUTER DRIVE

SYSTEM MONITORING PLAN

FIGURE A6 OF 8

REVISION DATE: FEBRUARY 22, 2017




ROUGE VALLEY SEWAGE DISPOSAL SYSTEM

# MIDDLE ROUGE INTERCEPTOR SCHEMATIC INKSTER AND REDFORD ARMS

SYSTEM MONITORING PLAN

FIGURE A7 OF 8

REVISION DATE: MAY 18, 2017

K:\DWG\Files\2015\15\RVSDS SYSTEM MONITORING PLAN (to WWTP).dwg May 18, 2017 - 3:24pm

P-30
MATCH LINE FIGURE A6
Reg 9 (Bulkheaded)
Reg 8 (M-13)
Reg 7 (M-14)
LS1A
RIVER SIPHONS
(2 - 36" CONSTRUCTED UNDER MRIR)
(2 - 42" CONSTRUCTED UNDER STCAP)
WC-S-2
L-133
JC I-18A
DT-S-1
GLWA/DWSD (NW)
PAUL AVE
FORD RD
WC-S-3
120" GLWA/DWSD (NWI)
HUBBELL-SOUTHFIELD
2 BBL @ 160' x 174'
MICHIGAN AVE
I-94
L-199
L-132
DEARBORN
HUBBELL-SOUTHFIELD FACILITY
P-14
RVI (OAKWOOD)
102"
W. OUTER DRIVE
MATCH LINE - FIGURE A2
ALLEN PARK
AP-S-2
ALLEN PARK
AP-S-1
L-131
DEARBORN
DN-S-2
MELVINDALE
ME-S-1
WC-S-1A
OAKWOOD PS
B050
GLWA/DWSD CSO OUTFALL 054
GLWA/DWSD ONWI
DEARBORN MILLER ROAD PS CONNECTION (DN-S-8)
DETROIT BABY CREEK CONNECTION (BC-S-2)
PS#2 DWWTP
PS#1 DWWTP
HUBBELL-SOUTHFIELD
10'Ø NWI
7'Ø
L-199
INFLATABLE DAM
L-132
STOP LOG IN SIPHON CHAMBER CREST = 571.4 ft (NAVD88)
10'Ø
RVI
NWI
8'-6"Ø
S-6
(2)6'-6"Ø SIPHONS
60"Ø MRPIE
76"Ø RVI
66"Ø MRIR
JC 2-8
SIPHON S-4
JC 1
MASTER CONTROL
54"Ø
BAR RACK
ROUGE RIVER
WET WELL
SI-2
CHANNEL
SI-1
WET WELL
SI-3
LS1A
FLAP GATE (TYP OF 6)
ELEVATED DISCHARGE BOX
6'x6' SLIDE GATE (NORMALLY OPEN)
DROP HOLE
JC 2
2- 42"Ø SIPHONS
JC 3
JC 4
2- 36"Ø SIPHONS
EMERGENCY RELIEF
FLAP GATE
66"Ø MRPIE
72"Ø MRIR
JC 1-18A
METER WC-S-2
76"Ø
66"Ø MRPIE
54"Ø
93"Ø MRPIE
FLAP GATE
72"Ø MRIR
GRAPHIC SCALE
1,250 0 1,250
1" = 1,250'
N
W E
S

## LEGEND

- REGULATOR
- FLOW METER
- JUNCTION
- 1 JUNCTION ID
- X-XX LINE CONNECTION ID
- COMMUNITY SEWER
- MIDDLE ROUGE PARKWAY INTERCEPTOR EXTENSION (MRPIE)
- ROUGE VALLEY INTERCEPTOR (RVI)
- MIDDLE ROUGE INTERCEPTOR RELIEF (MRIR)
- LIFT STATION 1A (LS1A)
- GLWA/DWSD INTERCEPTOR
- COMMUNITY BOUNDARY
- MAJOR COMMUNITY LINE CONNECTION TO GLWA/DWSD INTERCEPTOR

| | |
|---|---|
| GLWA | GREAT LAKES WATER AUTHORITY |
| DWSD | DETROIT WATER AND SEWERAGE DEPT |
| DWWTP | DETROIT WASTEWATER TREATMENT PLANT |

# ROUGE VALLEY SEWAGE DISPOSAL SYSTEM
# INTERCEPTOR SYSTEM SCHEMATIC
# DOWNSTREAM END OF SYSTEM

SYSTEM MONITORING PLAN
FIGURE A8 OF 8

REVISION DATE: FEBRUARY 22, 2017

K:\WWP files\2015\516\RK\GIS\SYSTEM MONITOR NS PLAN to WWTP).dwg Feb 22, 2017 - 12:24pm