

UTILITY / AGENCY CONTACTS

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gwelker@wsorrailroad.com

WAUKESHA COUNTY HIGHWAY ENGINEERING  
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WAUKESHA COUNTY DPW  
MS. ALLISON BUSLER  
DIRECTOR OF PUBLIC WORKS  
515 WEST MORELAND BOULEVARD  
WAUKESHA, WI 53188  
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WAUKESHA COUNTY DPW - TRAFFIC SIGNALS  
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CITY OF WAUKESHA  
~~DEPARTMENT OF PUBLIC WORKS~~ Engineering Division  
~~SANITARY & STORM SEWER~~  
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pday@ci.waukesha.wi.us

CITY OF WAUKESHA  
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~~CITY OF~~ WAUKESHA WATER UTILITY  
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CITY OF WAUKESHA Traffic Signals/ Fiber Communications  
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WI DEPT OF NATURAL RESOURCES  
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ENVIRONMENTAL SPECIALIST  
141 NW BARSTOW STREET, ROOM 180  
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craig.webster@wisconsin.gov

WI DEPT OF NATURAL RESOURCES  
MR. PAUL SANDGREN  
SUPERINTENDENT  
(FOR GLACIAL DRUMLIN STATE TRAIL)  
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EAGLE, WI 53119

KAPUR AND ASSOCIATES, INC.  
MR. KURT FARRENKOPF  
PROJECT MANAGER  
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MILWAUKEE, WI 53217  
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kfarrenkopf@kapur-assoc.com

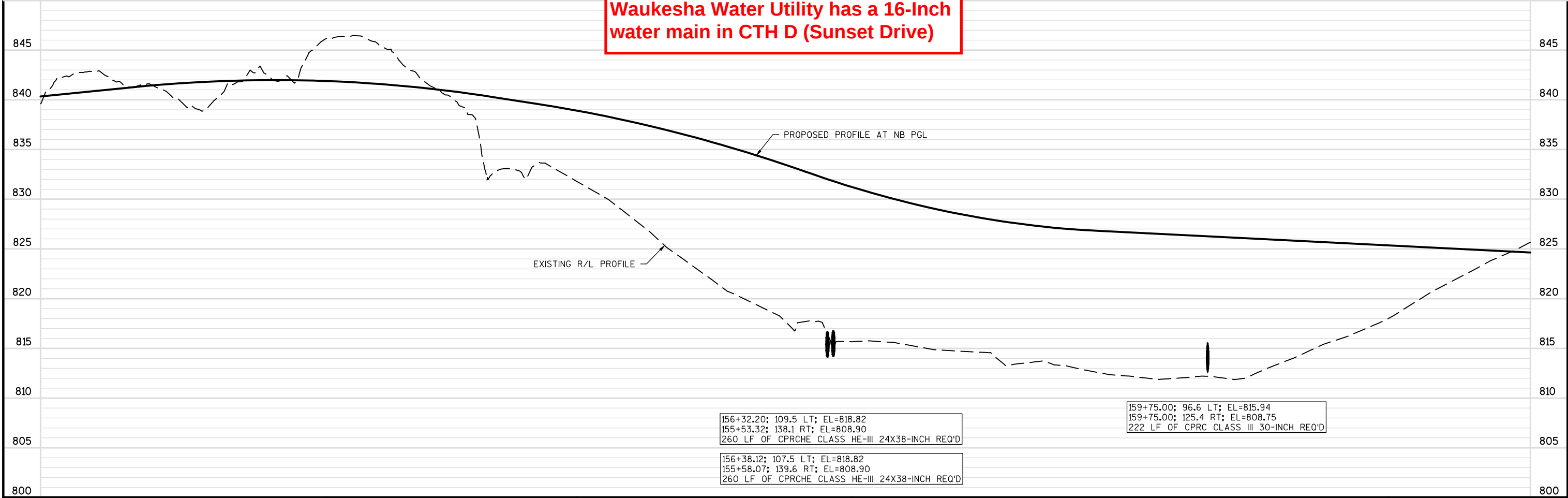
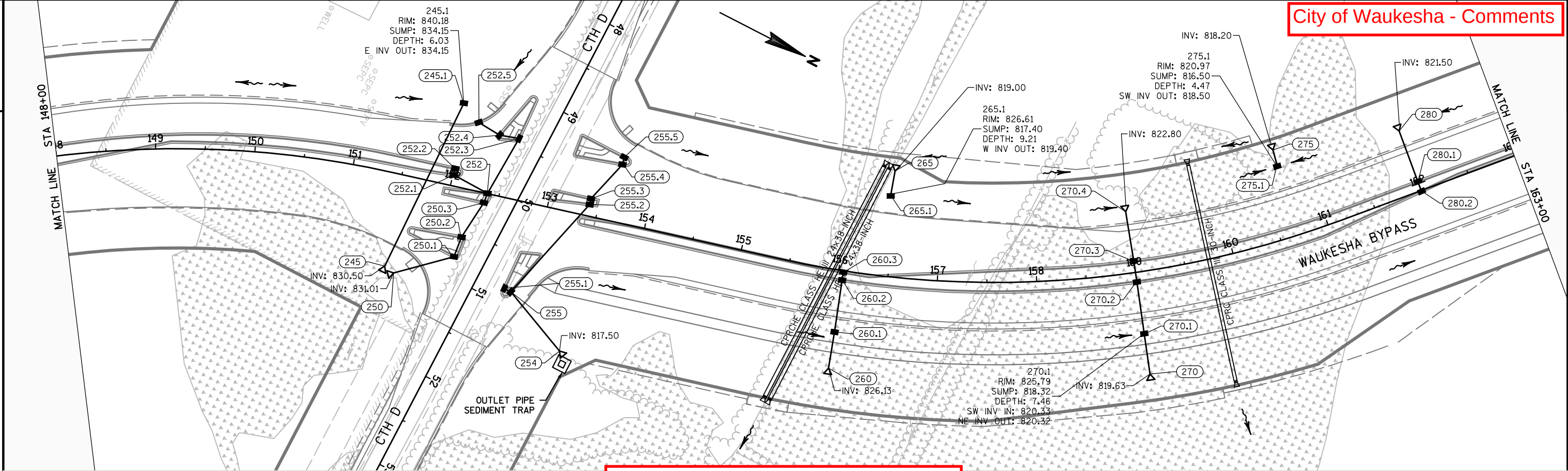


or (800) 242-8511

www.DiggersHotline.com

City of Waukesha - Comments

Waukesha Water Utility has a 16-Inch water main in CTH D (Sunset Drive)





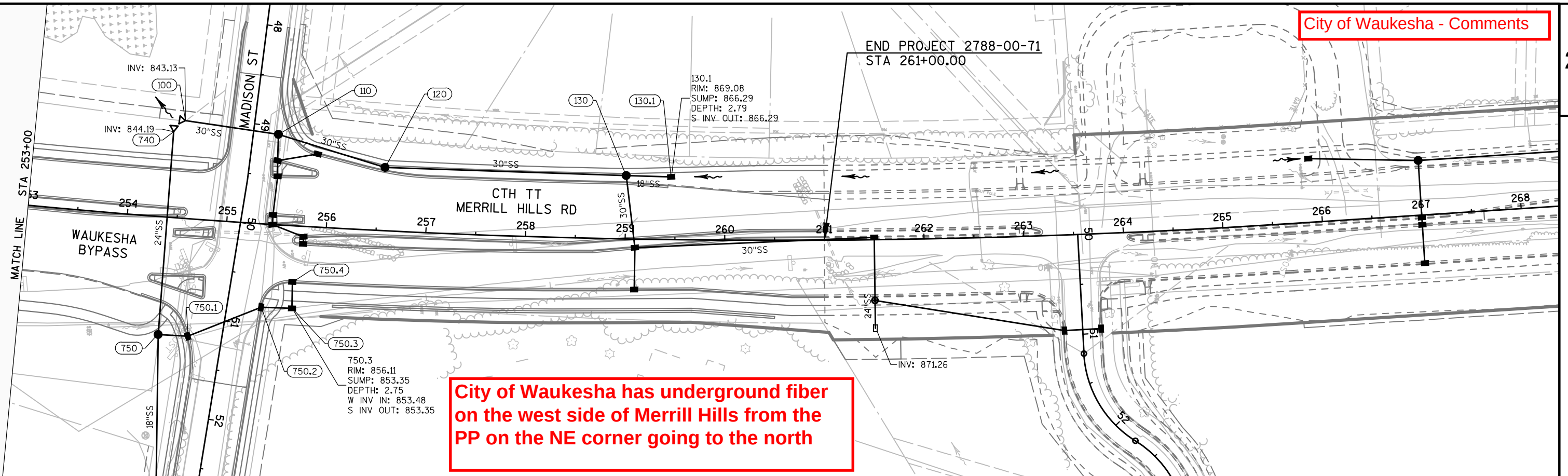
Waukesha Water Utility -  
existing main

W

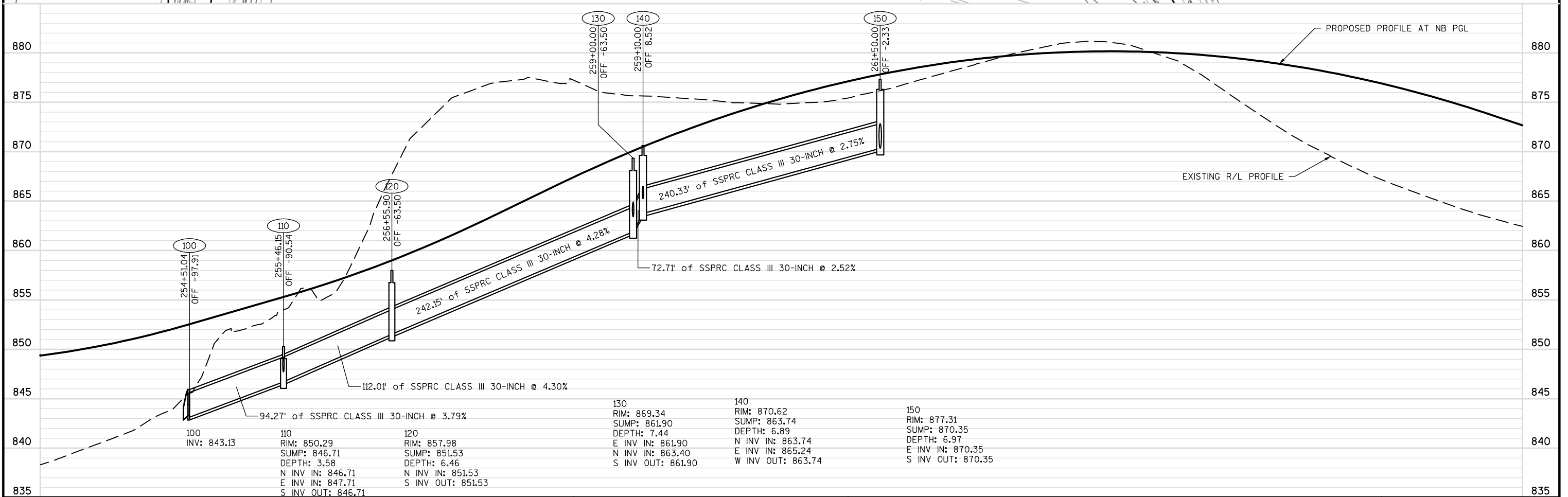
SUNSET

DR

City of Waukesha - Comments



City of Waukesha has underground fiber  
on the west side of Merrill Hills from the  
PP on the NE corner going to the north



PROJECT NO:2788-00-71

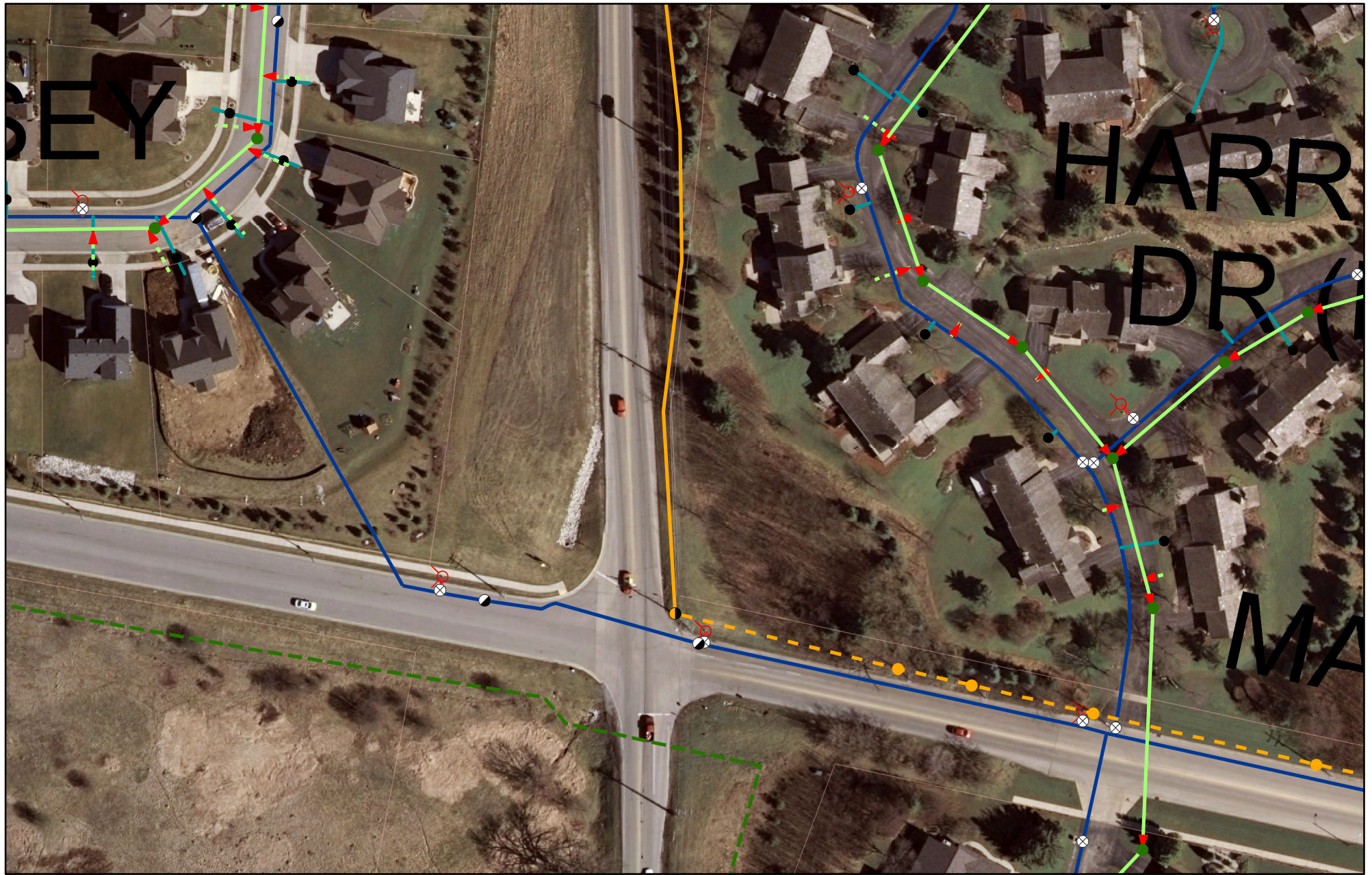
HWY:WEST WAUKESHA BYPASS

COUNTY:WAUKESHA

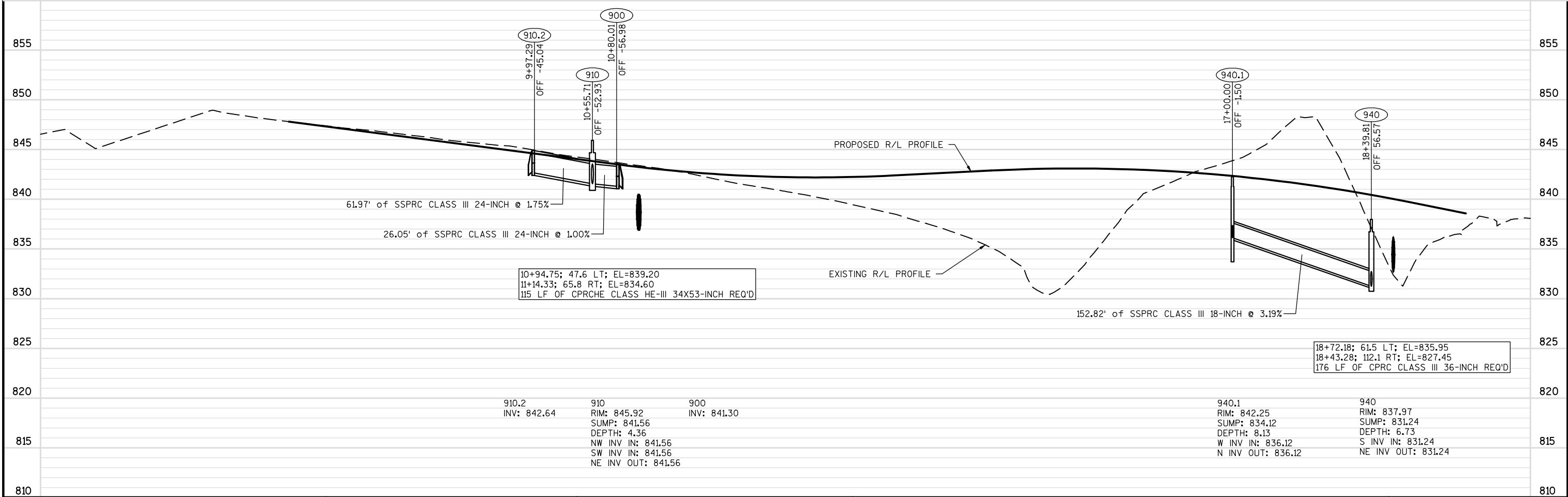
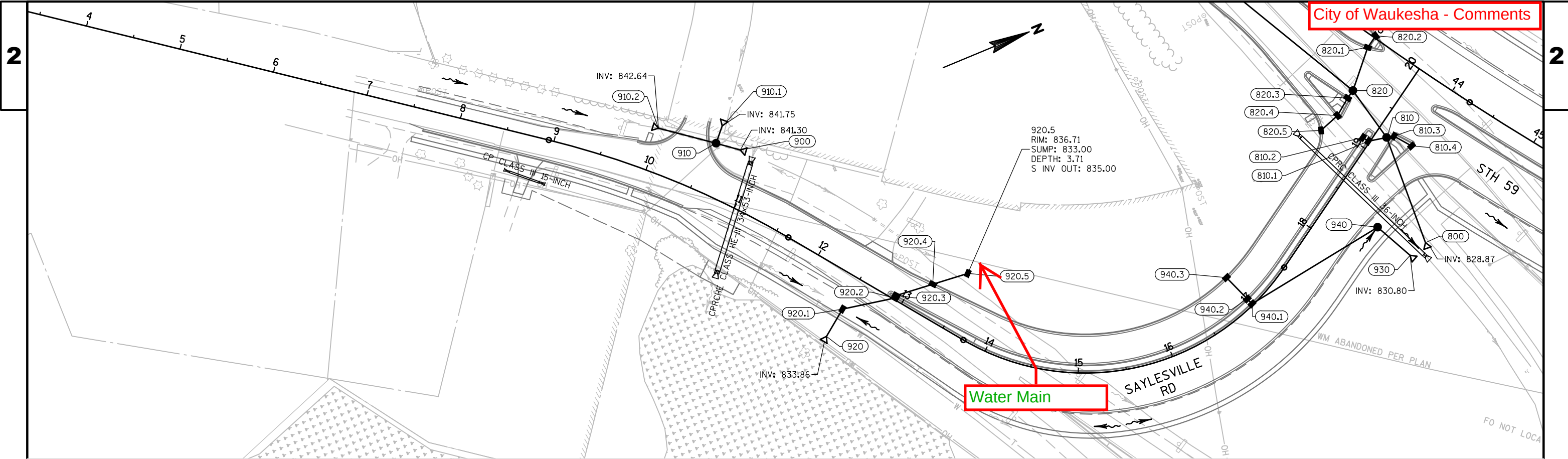
STORM SEWER: WAUKESHA BYPASS

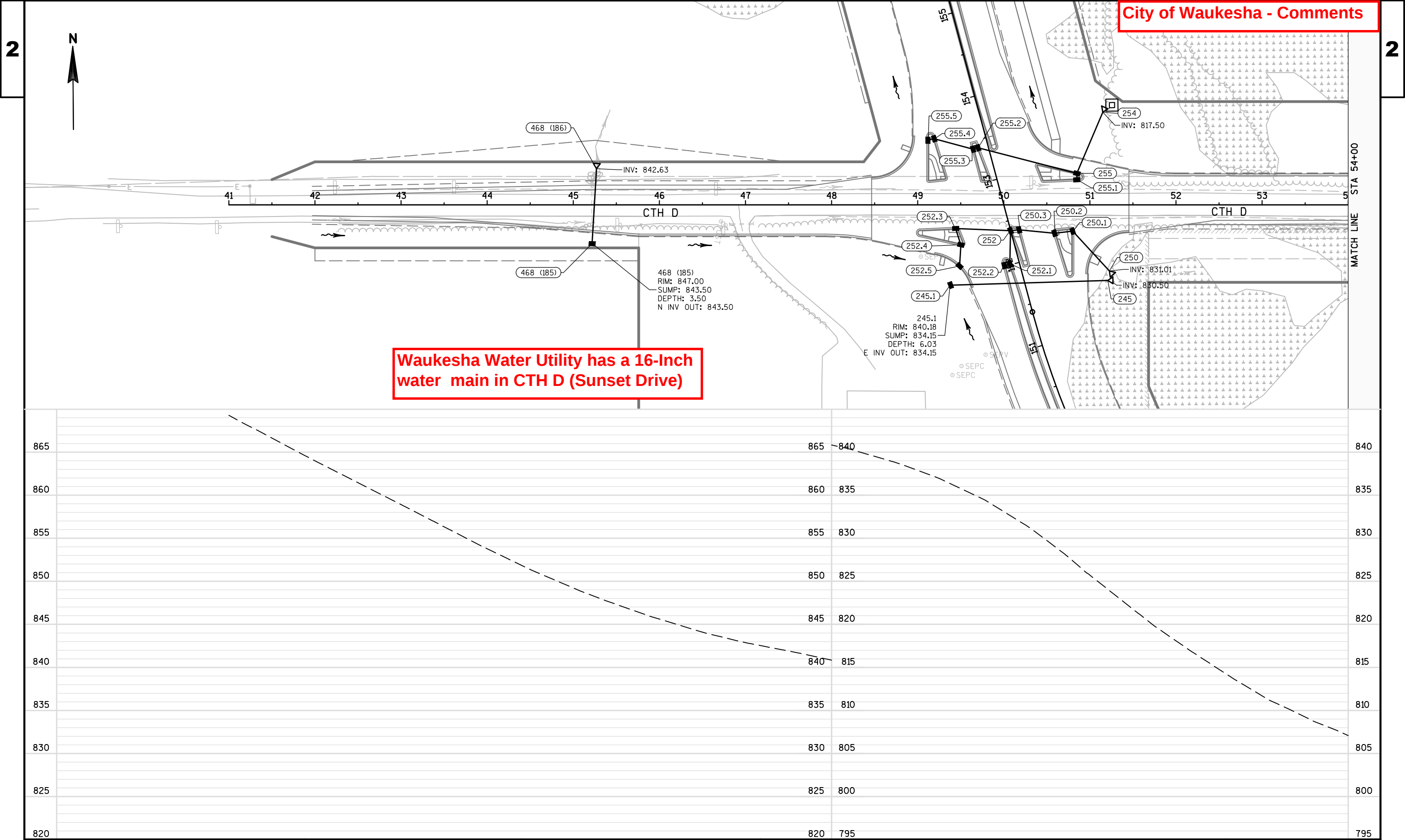
SHEET

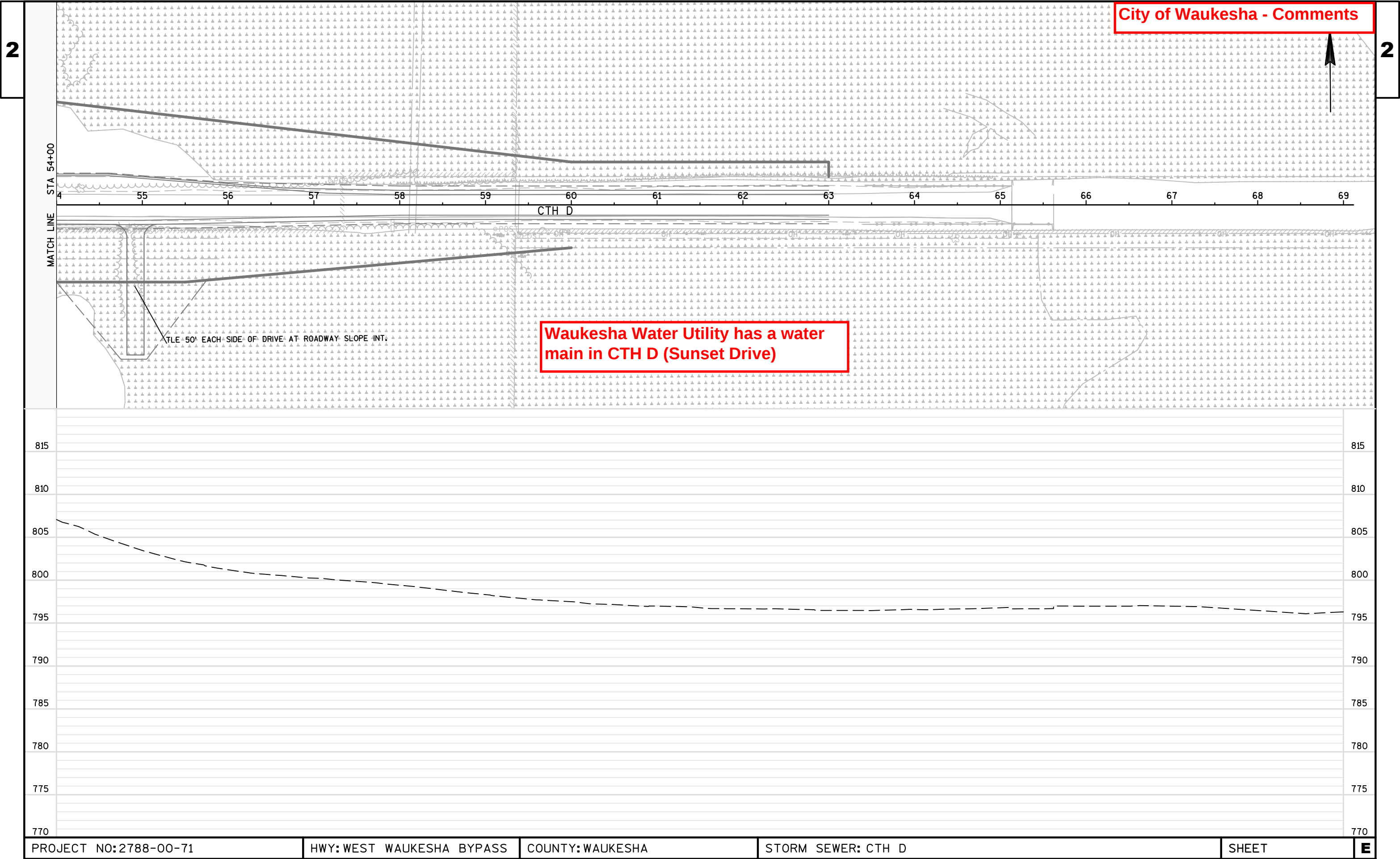
E

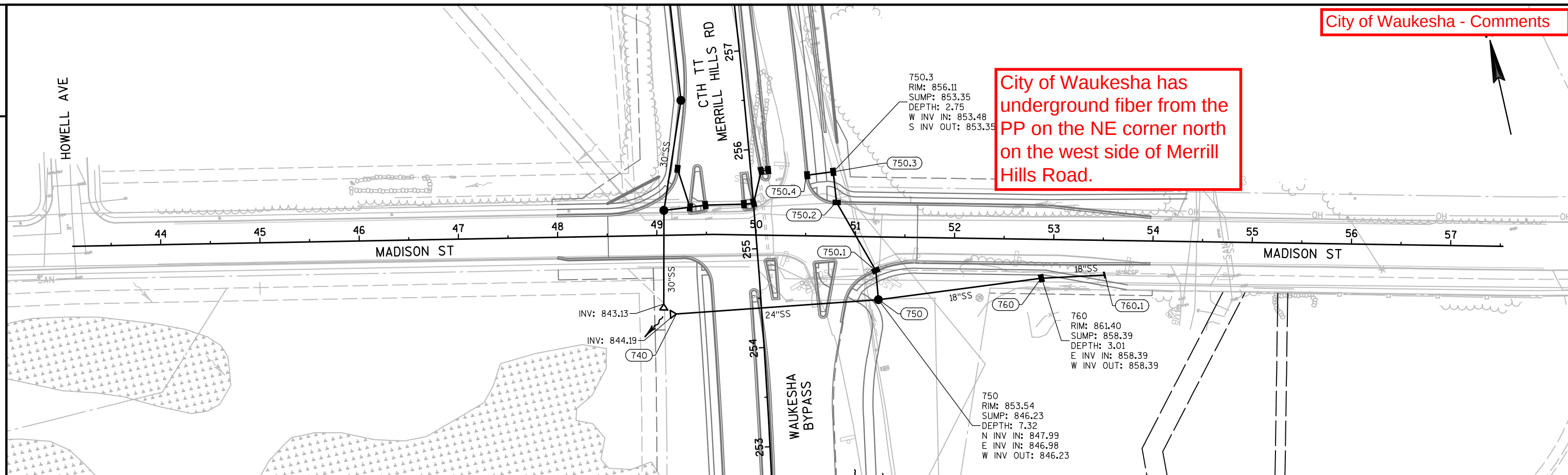


1 inch = 100 feet

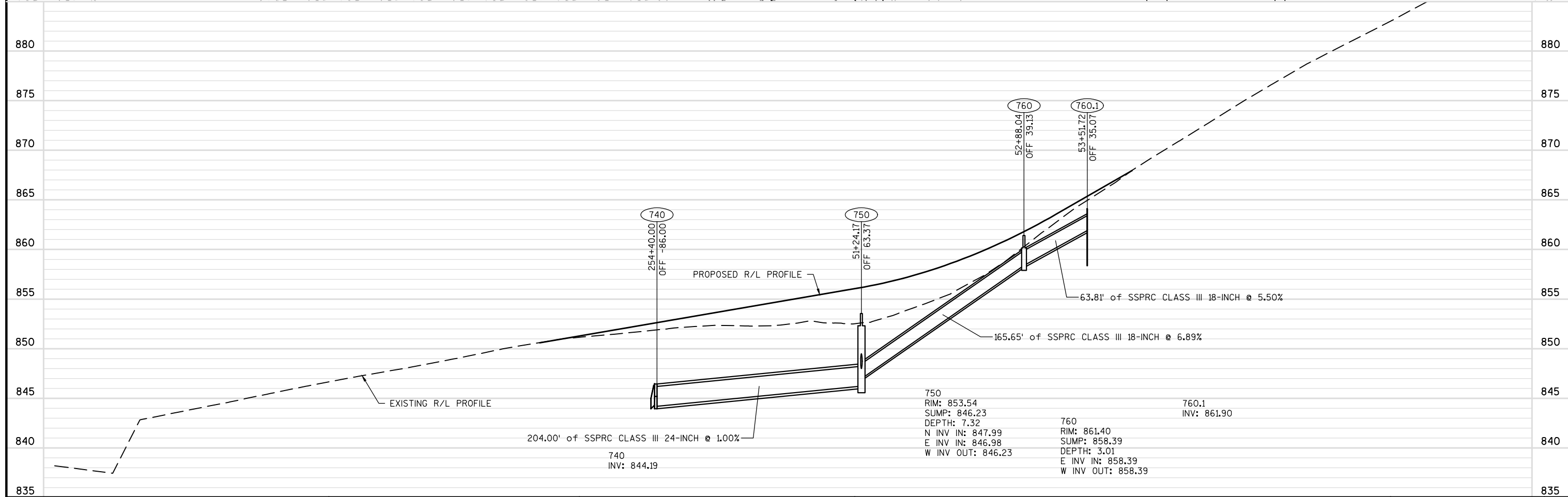








City of Waukesha - Comments



|                        |                           |                  |                             |       |   |
|------------------------|---------------------------|------------------|-----------------------------|-------|---|
| PROJECT NO: 2788-00-71 | HWY: WEST WAUKESHA BYPASS | COUNTY: WAUKESHA | STORM SEWER: MADISON STREET | SHEET | E |
|------------------------|---------------------------|------------------|-----------------------------|-------|---|

## LEGEND

- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE  
(XX) ○ MONOTUBE BASE, POLE, 15'-30' ARM  
(XX) ○ MONOTUBE BASE, POLE, 35'-55' ARM  
● PEDESTRIAN HEAD WITH PUSH BUTTON  
— PUSH BUTTON  
□ SIGNAL HEAD NUMBER  
◻ WALK/DON'T WALK INDICATOR 16" WITH COUNTDOWN TIMER  
Y YIELD SIGN  
◻ CONTROL CABINET  
— NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED  
○ PULL BOX, 24" X 42"

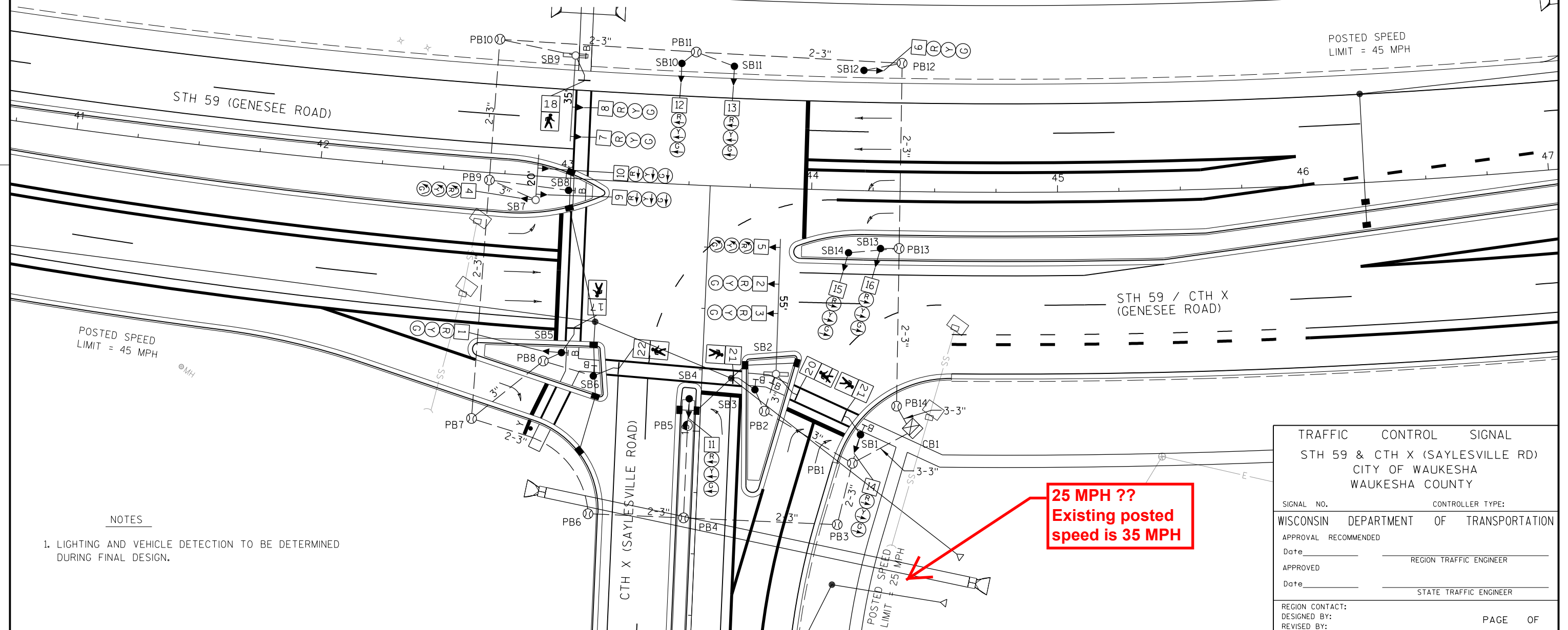
This signal will have EVP in all directions. City uses GTT Opticom with confirmation beacon. Check with City on latest spec.

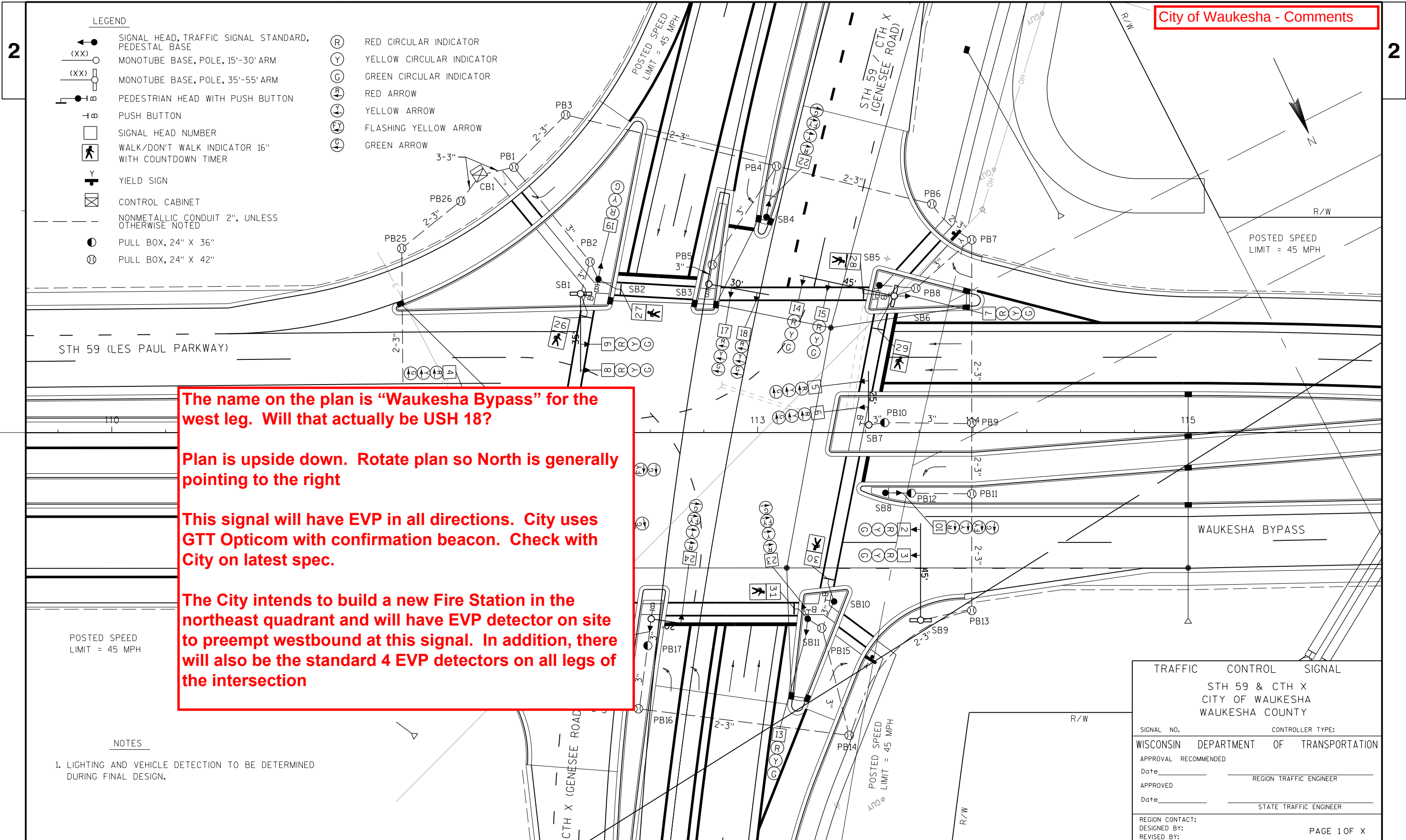
The signal plan will need to place an EVP detector near station 15+00 to pick up an emergency vehicle around the curve in advance for the phase to be pre-empted in time. The designer should calculate the best spot for this detector.

Plans show a storm sewer that may have conflicts with PB1, PB2 and SB3 SB4 may be in conflict with culvert

The crosswalk on the southwest leg of intersection crosses but does not seem to be received by a sidewalk or curb ramp near SB9. Please provide sidewalk landing area

City of Waukesha - Comments





City of Waukesha - Comments

The name on the plan is "Waukesha Bypass" for the west leg. Will that actually be USH 18?

Plan is upside down. Rotate plan so North is generally pointing to the right

This signal will have EVP in all directions. City uses GTT Opticom with confirmation beacon. Check with City on latest spec.

The City intends to build a new Fire Station in the northeast quadrant and will have EVP detector on site to preempt westbound at this signal. In addition, there will also be the standard 4 EVP detectors on all legs of the intersection

|                                                       |                         |
|-------------------------------------------------------|-------------------------|
| TRAFFIC CONTROL SIGNAL                                |                         |
| STH 59 & CTH X<br>CITY OF WAUKESHA<br>WAUKESHA COUNTY |                         |
| SIGNAL NO.                                            | CONTROLLER TYPE:        |
| WISCONSIN DEPARTMENT OF TRANSPORTATION                |                         |
| APPROVAL RECOMMENDED                                  |                         |
| Date                                                  | REGION TRAFFIC ENGINEER |
| APPROVED                                              |                         |
| Date                                                  | STATE TRAFFIC ENGINEER  |
| REGION CONTACT:                                       |                         |
| DESIGNED BY:                                          | PAGE 1 OF X             |
| REVISED BY:                                           |                         |

## LEGEND

- (XX) ○ SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE  
(XX) ○ MONOTUBE BASE, POLE, 15'-30' ARM  
(XX) ○ MONOTUBE BASE, POLE, 35'-55' ARM  
—●— PEDESTRIAN HEAD WITH PUSH BUTTON  
—●— PUSH BUTTON  
□ SIGNAL HEAD NUMBER  
□ WALK/DON'T WALK INDICATOR 16" WITH COUNTDOWN TIMER  
—S— STOP SIGN  
—Y— YIELD SIGN  
□ CONTROL CABINET  
--- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED  
○ PULL BOX, 24" X 42"
- (R) RED CIRCULAR INDICATOR  
(Y) YELLOW CIRCULAR INDICATOR  
(G) GREEN CIRCULAR INDICATOR  
(R) RED ARROW  
(Y) YELLOW ARROW  
(G) GREEN ARROW

City of Waukesha - Comments

Waukesha Water Utility has a 16-Inch main in CTH D (Sunset Drive)

POSTED SPEED  
LIMIT = 45 MPH

WAUKESHA BYPASS/MEADOWBROOK ROAD

POSTED SPEED  
LIMIT = 45 MPH

The name on the plan is "Waukesha Bypass" for the mainline legs. Will that actually be USH 18?

This signal will have EVP in all directions. City uses GTT Opticom with confirmation beacon. Check with City on latest spec.

## NOTES

1. LIGHTING AND VEHICLE DURING FINAL DESIGN.

| TRAFFIC CONTROL SIGNAL                                         |                         |
|----------------------------------------------------------------|-------------------------|
| WAUKESHA BYPASS & CTH D<br>TOWN OF WAUKESHA<br>WAUKESHA COUNTY |                         |
| SIGNAL NO.                                                     | CONTROLLER TYPE:        |
| WISCONSIN DEPARTMENT OF TRANSPORTATION                         |                         |
| APPROVAL RECOMMENDED                                           |                         |
| Date _____                                                     | REGION TRAFFIC ENGINEER |
| APPROVED                                                       |                         |
| Date _____                                                     | STATE TRAFFIC ENGINEER  |
| REGION CONTACT:                                                |                         |
| DESIGNED BY:                                                   | PAGE 1 OF X             |
| REVISED BY:                                                    |                         |

PROJECT NO: 2788-00-01

HWY: WAUKESHA BYPASS

COUNTY: WAUKESHA

TRAFFIC SIGNAL PLAN

SHEET 41

E

## LEGEND

- (XX) ○ SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE  
(XX) ○ MONOTUBE BASE, POLE, 15'-30' ARM  
(XX) ○ MONOTUBE BASE, POLE, 35'-55' ARM  
—●— PEDESTRIAN HEAD WITH PUSH BUTTON  
—●— PUSH BUTTON  
□ SIGNAL HEAD NUMBER  
□ WALK/DON'T WALK INDICATOR 16" WITH COUNTDOWN TIMER  
□ CONTROL CABINET  
--- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED  
S STOP SIGN  
○ PULL BOX, 24" X 42"

- (R) RED CIRCULAR INDICATOR  
(Y) YELLOW CIRCULAR INDICATOR  
(G) GREEN CIRCULAR INDICATOR  
(R) RED ARROW  
(Y) YELLOW ARROW  
(G) GREEN ARROW

POSTED SPEED  
LIMIT = 45 MPH

WAUKESHA BYPASS/MEADOWBROOK ROAD

253

254

255

256

257

258

WAUKESHA BYPASS/MEADOWBROOK ROAD

Consider moving the controller from the southwest quadrant to the northwest quadrant. The SW quadrant is low near a wetland.

The name on the plan is "Waukesha Bypass" for the mainline legs. Will that actually be USH 18?

This signal will have EVP in all directions. City uses GTT Opticom with confirmation beacon. Check with City on latest spec.

## NOTES

1. LIGHTING AND VEHICLE DETECTION TO BE DETERMINED DURING FINAL DESIGN.

|                                                                     |                         |
|---------------------------------------------------------------------|-------------------------|
| TRAFFIC CONTROL SIGNAL                                              |                         |
| WAUKESHA BYPASS & MADISON ST<br>CITY OF WAUKESHA<br>WAUKESHA COUNTY |                         |
| SIGNAL NO.                                                          | CONTROLLER TYPE:        |
| WISCONSIN DEPARTMENT OF TRANSPORTATION                              |                         |
| APPROVAL RECOMMENDED                                                |                         |
| Date _____                                                          | REGION TRAFFIC ENGINEER |
| APPROVED                                                            |                         |
| Date _____                                                          | STATE TRAFFIC ENGINEER  |
| REGION CONTACT:                                                     |                         |
| DESIGNED BY:                                                        | PAGE 1 OF X             |
| REVISED BY:                                                         |                         |

PROJECT NO: 2788-00-01

HWY: WAUKESHA BYPASS

COUNTY: WAUKESHA

TRAFFIC SIGNAL PLAN

SHEET

E

Very preliminary proposed development on the south side - may have a proposed street access at STA 100+00

Proposed Fire Station will use this driveway with the church for eastbound calls

The City intends to build a new Fire Station in the parcel adjacent to St. John Nuemann (northeast quadrant) - will need to have EVP detector on site to preempt westbound at this signal.

Contact Fire Department for best location of EVP (Asst. Chief Steven Howard 262-524-3649)

City of Waukesha - Comments

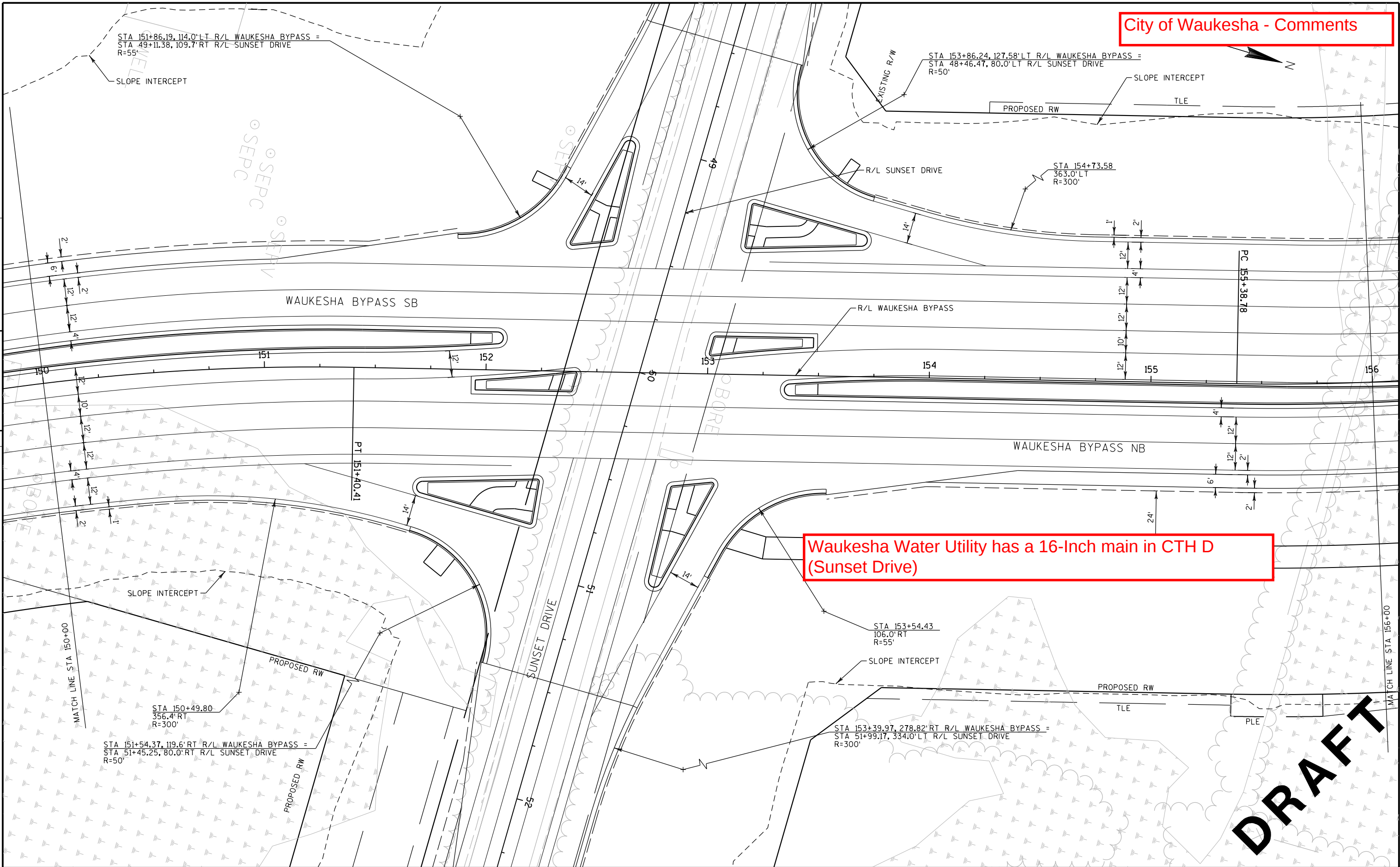
5

5

Proposed Fire Station will use this driveway with the church for westbound calls.

Future City of Waukesha Fire Station - will need to have EVP detector on site to preempt westbound at this signal.  
Contact Fire Department for best location of EVP (Asst. Chief Steven Howard 262-524-3649)

DRAFT



City of Waukesha - Comments

Waukesha Water Utility has a 16-Inch main in CTH D (Sunset Drive)

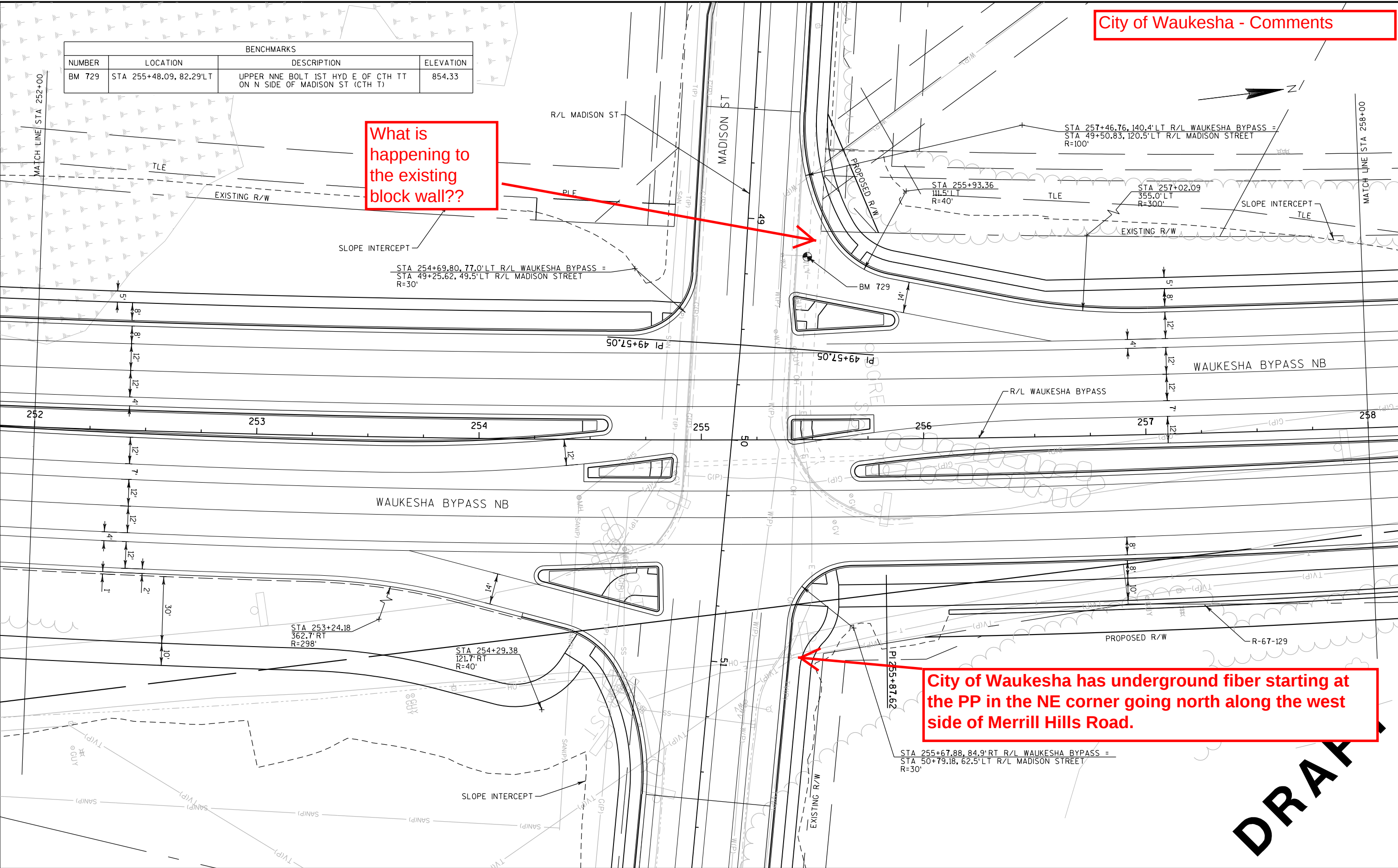
DRAFT

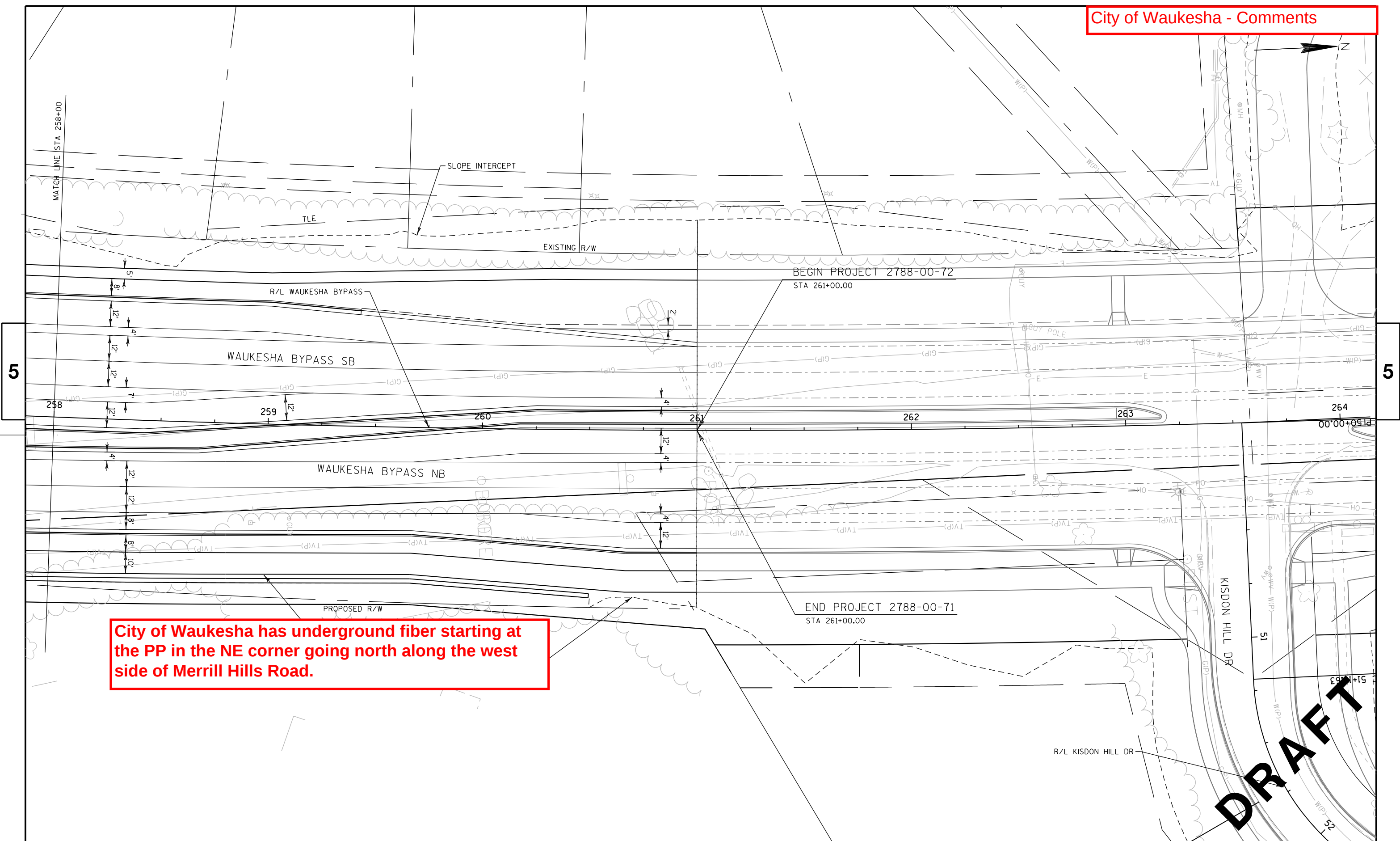
|                        |                      |                  |                       |           |   |
|------------------------|----------------------|------------------|-----------------------|-----------|---|
| PROJECT NO: 2788-00-71 | HWY: WAUKESHA BYPASS | COUNTY: WAUKESHA | PLAN: WAUKESHA BYPASS | SHEET 114 | E |
|------------------------|----------------------|------------------|-----------------------|-----------|---|

City of Waukesha - Comments

What is happening to the existing block wall??

City of Waukesha has underground fiber starting at the PP in the NE corner going north along the west side of Merrill Hills Road.





City of Waukesha has underground fiber starting at the PP in the NE corner going north along the west side of Merrill Hills Road.

DRAFT

City of Waukesha - Comments

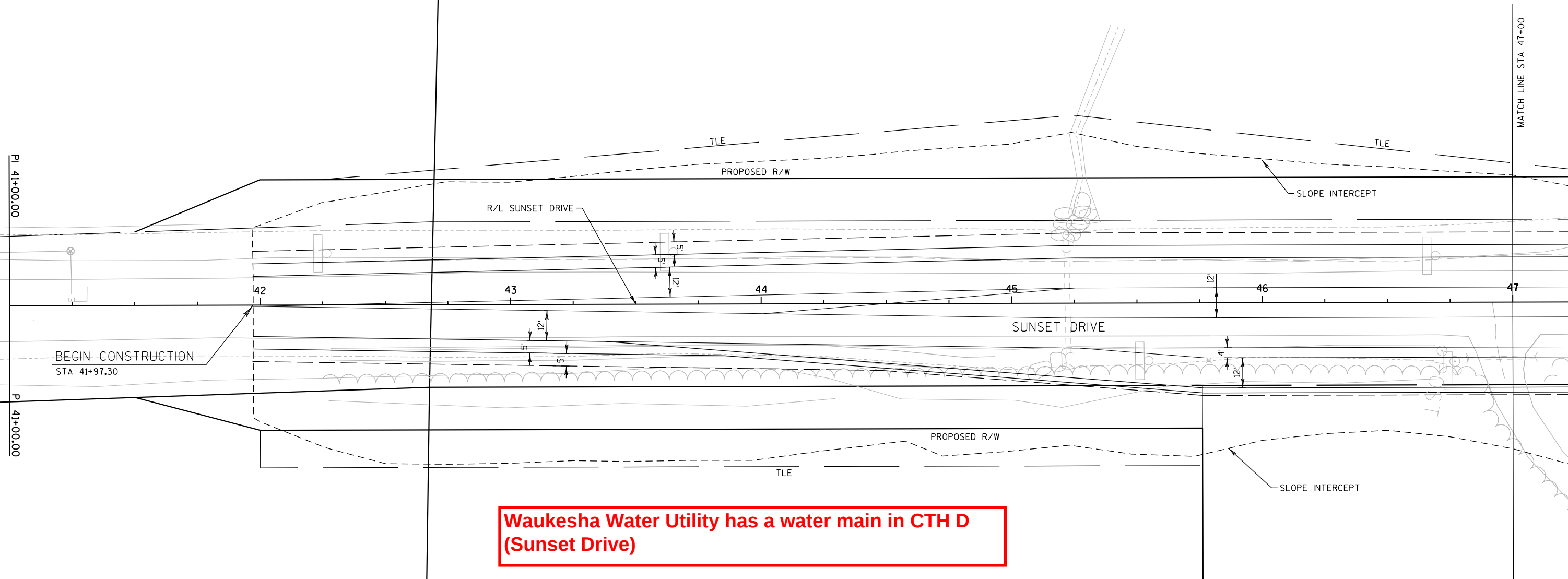


5

5

PI 41+00.00  
P 41+00.00

MATCH LINE STA 47+00



Waukesha Water Utility has a water main in CTH D (Sunset Drive)

DRAFT

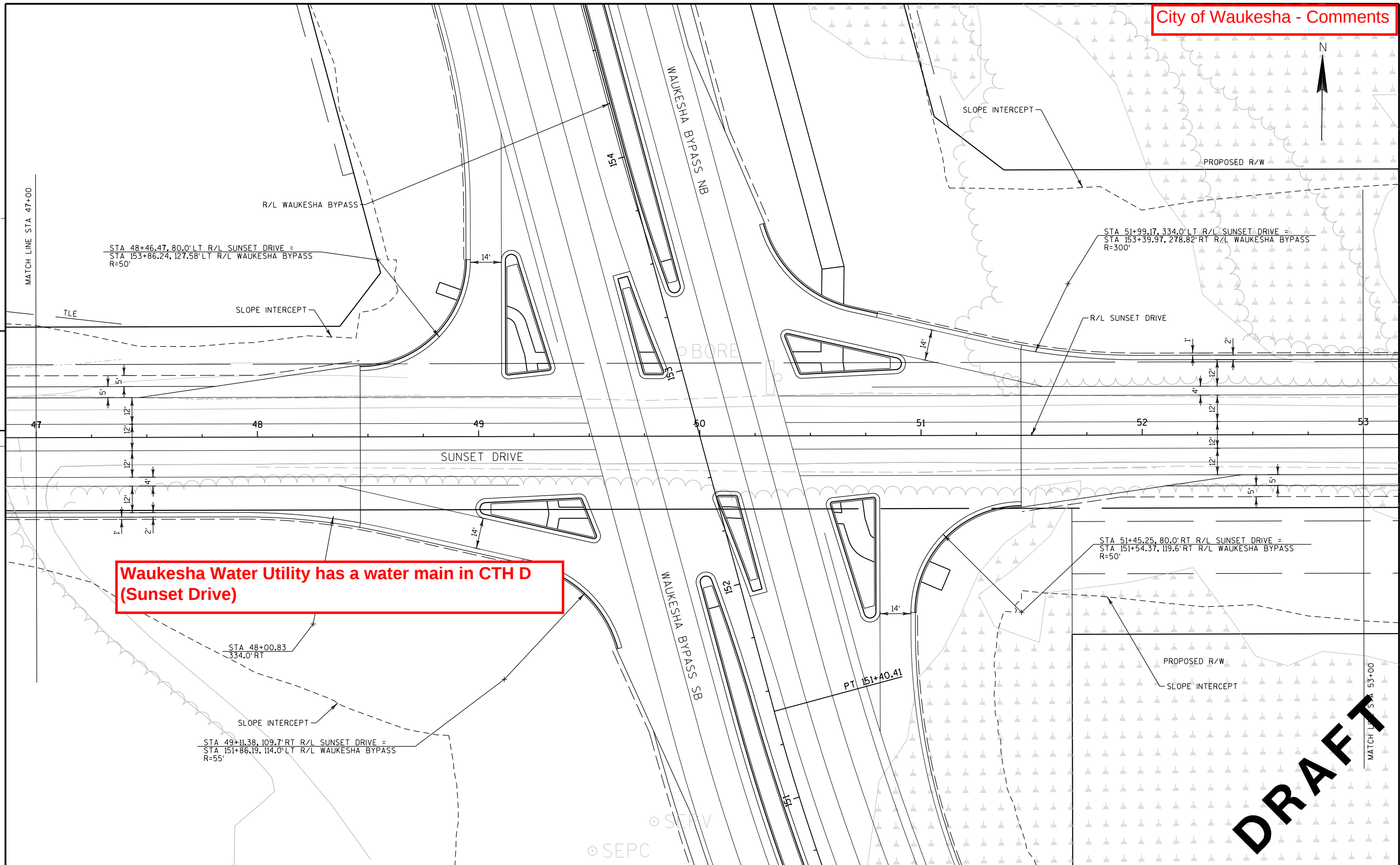
STA 48+46.47, 80.0' LT R/L SUNSET DRIVE =  
STA 153+86.24, 127.58' LT R/L WAUKESHA BYPASS  
R=50'

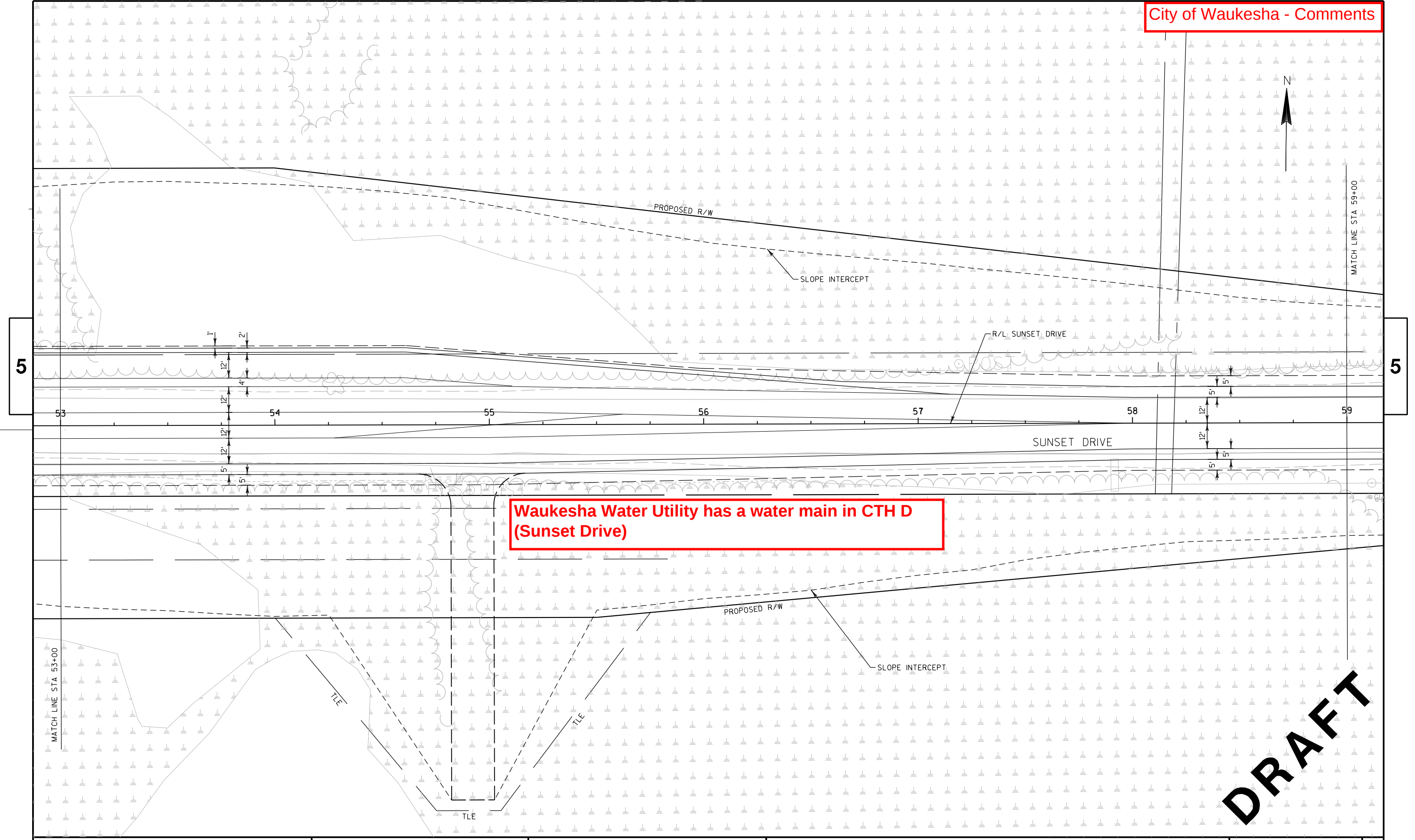
STA 51+99.17, 334.0' LT R/L SUNSET DRIVE =  
STA 153+39.97, 278.82' RT R/L WAUKESHA BYPASS  
R=300'

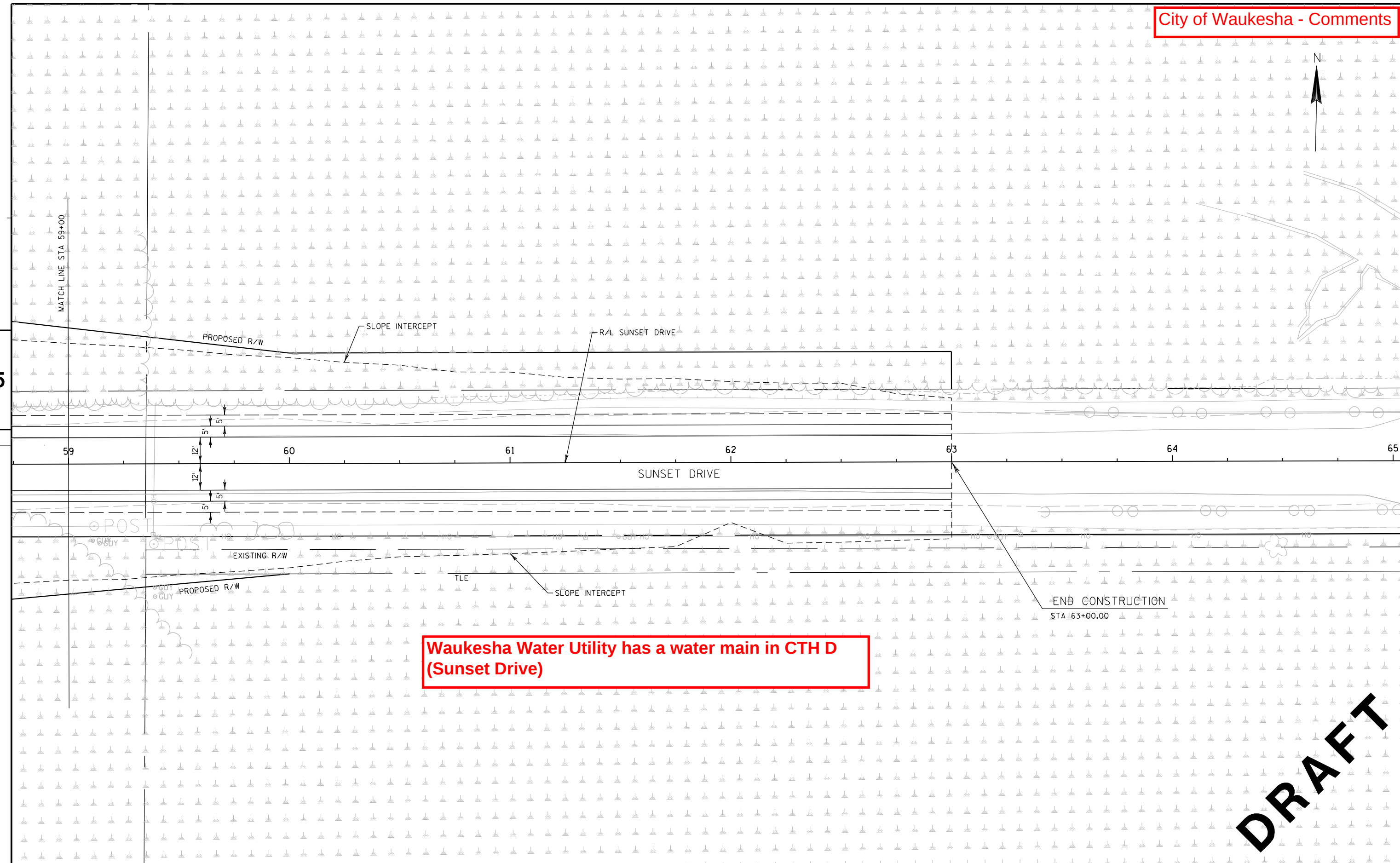
STA 51+45.25, 80.0' RT R/L SUNSET DRIVE =  
STA 151+54.37, 119.6' RT R/L WAUKESHA BYPASS  
R=50'

STA 49+11.38, 109.7' RT R/L SUNSET DRIVE =  
STA 151+86.19, 114.0' LT R/L WAUKESHA BYPASS  
R=55'

Waukesha Water Utility has a water main in CTH D  
(Sunset Drive)







| BENCHMARKS |                        |                                                                       |           |
|------------|------------------------|-----------------------------------------------------------------------|-----------|
| NUMBER     | LOCATION               | DESCRIPTION                                                           | ELEVATION |
| BM 729     | STA 49+15.70, 27.56'LT | UPPER NNE BOLT 1ST HYD E OF CTH TT<br>ON N SIDE OF MADISON ST (CTH T) | 854.33    |

City of Waukesha - Comments

What is happening  
with existing  
wall??

City of Waukesha has underground  
fiber from the PP on the NE corner  
north on the west side of Merrill Hills  
Road.

STA 49+50.83, 120.5'LT R/L MADISON STREET =  
STA 257+46.76, 140.4'LT R/L WAUKESHA BYPASS  
R=100'

STA 50+79.18, 62.5'LT R/L MADISON STREET =  
STA 255+67.88, 84.9'RT R/L WAUKESHA BYPASS  
R=30'  
PI 255+87.62

SLOPE INTERCEPT

SLOPE INTERCEPT

TLE

EXISTING R/W

BM 729

MADISON ST

BEGIN CONSTRUCTION  
STA 48+00.00

STA 49+25.62, 49.5'LT R/L MADISON STREET =  
STA 254+69.80, 77.0'LT R/L WAUKESHA BYPASS  
R=30'

SLOPE INTERCEPT

EXISTING R/W

STA 51+62.39, 123.5'RT R/L MADISON STREET =  
STA 253+78.01, 151.2'RT R/L WAUKESHA BYPASS  
R=100'

R/L WAUKESHA BYPASS

WAUKESHA BYPASS NB

WAUKESHA BYPASS SB

DRAFT

City of Waukesha - Comment

Rebuilding existing  
Wall??

