



136 North Monroe Street
Waterloo, WI 53594-1198
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www.waterloowi.us

**PUBLIC NOTICE OF A COMMITTEE MEETING
OF THE COMMON COUNCIL OF THE CITY OF WATERLOO**

Pursuant to Section 19.84 Wisconsin Statutes, notice is hereby given to the public & news media, that the following meeting will be held:

COMMITTEE: PUBLIC WORKS & PROPERTY COMMITTEE
DATE: December 6, 2018
TIME: 6:00 p.m.
LOCATION: Municipal Building Council Chambers, 136 N. Monroe Street

1. CALL TO ORDER AND ROLL CALL
2. APPROVAL OF MEETING MINUTES: November 1, 2018
3. PUBLIC COMMENTS
4. 2018/2019 PROJECT/PROGRAM UPDATES
5. UNFINISHED BUSINESS
 - a. Discussion/Recommendation - 2019 Street & Utilities Reconstruction Of Edison Street / Franklin Street – Cost Estimates And Design Review
 - b. Discussion/Recommendation – Updating 2016-2023 Street & Utility Project Schedule
6. FUTURE AGENDA ITEMS AND ANNOUNCEMENTS
 - a. Road Maintenance Agreements With Adjacent Townships
 - b. January 3, 2019 Discussion/Recommendation - Considering A Sidewalk Special Assessment For The 2019 Street & Utilities Reconstruction of Edison Street / Franklin Street
 - i. Engineer's Draft
7. ADJOURNMENT

A handwritten signature in cursive script that reads "Mo Hansen".

Mo Hansen
Clerk/Treasurer

*** Also on Council Agenda. See Council materials for documentation.

Committee Members: Springer, Stinnett and Osborn posted, e-mailed & distributed: 11/30/2018

PLEASE NOTE: IT IS POSSIBLE THAT MEMBERS OF AND POSSIBLY A QUORUM OF MEMBERS OF OTHER GOVERNMENTAL BODIES OF THE MUNICIPALITY MAY BE IN ATTENDANCE AT THE ABOVE MEETING(S) TO GATHER INFORMATION. NO ACTION WILL BE TAKEN BY ANY GOVERNMENTAL BODY OTHER THAN THAT SPECIFICALLY NOTICED. ALSO, UPON REASONABLE NOTICE, EFFORTS WILL BE MADE TO ACCOMMODATE THE NEEDS OF DISABLED INDIVIDUALS THROUGH APPROPRIATE AIDS AND SERVICES. FOR ADDITIONAL INFORMATION OR TO REQUEST SUCH SERVICES PLEASE CONTACT THE CLERK'S OFFICE AT THE ABOVE LOCATION.

CITY OF WATERLOO PUBLIC WORKS & PROPERTY COMMITTEE
MEETING MINUTES: November 1, 2018

1. CALL TO ORDER AND ROLL CALL. Committee Chair Springer called the meeting to order at 6:00 p.m. in the Council Chambers. Committee members present: Springer, Stinnett and Osborn. Absent: none. Others attending: Public Works Director Chad Yerges; Mitch Leisses of Kunkel Engineering Group; Utility Superintendent Barry Sorenson; Deputy Clerk/Treasurer Kawula; Clerk/Treasurer Hansen.
2. APPROVAL OF MEETING MINUTES: August 2, 2018 (No Quorum September 6, 2018). MOTION: Moved by Stinnett, seconded by Osborn to approve the August 2, 2018 meeting minutes. VOICE VOTE: Motion carried.
3. PUBLIC COMMENTS. None.
4. 2018 PROJECT/PROGRAM STATUS UPDATES. Noted.
5. UNFINISHED BUSINESS
 - a. Discussion/Recommendation - 2019 Street & Utilities Reconstruction Of Edison Street / Franklin Street – Review Of Cost Estimates And Preliminary Design Overview. DISCUSSION: Leisses said the estimate has not changed. Leisses confirmed the project was to be done in one phase not two. He said plans and specifications were close to completion. He said permits have been secured for water, sewer and the notice of intent for storm water. No action taken.
6. NEW BUSINESS
 - a. Discussion/Recommendation - Revising The Special Assessment Policy. DISCUSSION: Leisses said preliminary assessment work has been done for Edison/Franklin taking into consideration corner lots. A final assessment report would need to be completed and a special assessment public hearing would be held. Leisses mentioned information from Mayville and West Bend providing highlights from each. Hansen said the Edison/Franklin special assessments roughly amounted to an additional sum comparable to one year's property tax. Hansen noted inconsistency in the past pattern of deciding to make special assessments. Leisses said other communities assess for driveway aprons, but assessment for existing asphalt roadway was not permitted by state statutes. In response to an Osborn question, Leisses said the preliminary report measurements should be for four-foot wide sidewalk where it existed. Springer suggested the matter of an ordinance change be referred to the Plan Commission. In response to a Stinnett question about missing addresses, Leisses said all parcels should be accounted for and assessments go to the property owners, some of which may not reside at the address. Regarding Franklin Street, Leisses said, after consulting with Yerges, sidewalk would be only on the side where it now exists. Newer Franklin Street sidewalk could remain if it matched the grade and didn't need to be removed to update utility laterals. Hansen said sidewalk abutting the Meier property (PIN 290-0813-0644-020) may also be retained as it was new and didn't involve laterals. MOTION: Moved by Stinnett, seconded by Osborn to forward consideration of an ordinance change to the Plan Commission. VOICE VOTE: Motion carried.
 - b. Discussion/Recommendation - Considering A Sidewalk Special Assessment For The 2019 Street & Utilities Reconstruction of Edison Street / Franklin Street. DISCUSSION: Leisses asked if the assessment should take place with the current policy.
 - i. Engineer's Draft. No action taken.
 - c. Discussion – Review of Scope Of Work And Revised Cost Estimates, Adams Street Reconstruction. DISCUSSION: A revised Adams Street estimate was provided by Kunkel Engineering. Hansen said the Finance, Insurance & Personnel Committee had recommended, as part of its 2019 budget recommendation, moving Adams Street to 2021 in order to get 2019 road funding to work. Leisses described the Adams Street project as a complete utility and street reconstruction with additional drainage along the backsides of the curb due to a high water table. This would be done to help direct ground water to the storm sewer rather than allowing it under the base of the road. Railroad Avenue was given as an example of the construction type described. In response to a Stinnett question about semi-trucks on Adams, Leisses said a design like Railroad Avenue with a thicker stone road base would be included. Yerges said five inches of asphalt would be used just like Railroad Avenue. No action taken.
 - d. Discussion – Updating 2016-2023 Street & Utility Project Schedule. DISCUSSION: Springer noted the Finance Committee recommendation. Handouts included a sheet showing when the Committee last updated the schedule, and showed a citywide PASER rating sheet, which Leisses described. Leisses advised looking at where water main breaks had occurred and consulting with

Waterloo Utilities on road decisions. Springer said decisions could not be made other than the 2020 decision. He suggested getting the current project started. Sorenson said whatever streets are on the list, the Utility would be reconstructing utilities. Leisses said the Inflow and Infiltration Study items have been addressed. Sorenson said he and Yerges could identify and recommend streets for future repair. No action taken.

- e. Discussion/Recommendation – Mill Street & Cleveland Street Parking Arrangement.
DISCUSSION: Springer said parking recommendations should be done by the Public Safety & Health Committee. MOTION: Moved by Stinnett, seconded by Osborn to refer the matter to the Public Safety & Health Committee. VOICE VOTE: Motion carried.

7. FUTURE AGENDA ITEMS AND ANNOUNCEMENTS

- a. Road Maintenance Agreements With Adjacent Townships

- 8. ADJOURNMENT. MOTION: Moved by Stinnett, seconded by Osborn to adjourn. The time was approximately 6:35 pm. Motion carried.



Attest:

Mo Hansen

Clerk/Treasurer

Waterloo 2019 Project Tracking

Sorted by Oversight Entity

12/3/2018 11:40 AM

by Clerk/Treas.

Project Began	Oversight	Project	Description	Type	Lead(s)	Status	Next Action	Notes
2015	Community Development Authority	203 E Madison St (phase 4)	Complete site work per CDA adopted concept plan	Econ. Dev. TID#2	Clerk/Treas.	Need to identify funding to complete	CDA authorized expenditure for fencing	Spring installation of fencing by DPW
2016	Community Development Authority	333 Portland Rd Demolition	Removal of blighted buildings preparing for future reuse of property	Econ. Dev. TID#3	Clerk/Treas.	Testing taking place	Site Marketing; ID Griffin Repair land amount for potential land sale	Hire a broker for site?
2013	Council	333 West Madison Street	Hawthorn & Stone build-out of assisted living facility	Econ. Dev. TID#2	Clerk/Treas.	waiting on developer financing	Monitor	Council action reduced fee in lieu of taxes amount for 2019 and 2020
2017	Council	Commercial Ave Extension	extend road 345 ft north for AB E Discovery access per agreement	Econ. Dev. TID#3	Kunkel Eng. Group; Chad & Barry	Near completion	Parcel off pond for future city maintenance	Certified Survey Map before Plan Commission on 12/18/2018
2017	Council	Ordinance update	2019 update of digital and printed ordinances	Administrative	Clerk/Treas.	2019 budget item	deferred to 2018 from 2019	Must find funding within Clerk's budget
2018	Park Comm	Repair Firemen's Park Sanitary Sewer line leaks	2016 repairs did not remedy inflow of water to lift station at river	Parks	Parks Director & DPW Director	Estimates came in a approx. 37k	Trustees not willing to use Shoe Factor dollars to fund	Waterloo Utilities has committed 25k to project
2018	Public Safety & Health Comm	Police squad car replacement	2019 purchase through bid process of new replacement vehicle with existing traded-in	Equipment	Police Chief	Police Chief collecting bids for Council	Council authorization of purchase	2019 -- \$30,000
2018	Public Works & Property Comm	2019 Edison/Franklin Reconstruct	Full street and utility reconstruction	Road & Utility improve Capital Fund	Kunkel Engineering Group; Chad & Barry	Final design phase	Public Works Committee briefed 12/6/2018	Municipal portion expense 2019 - \$687,665
2017	Public Works & Property Comm	2018 Cleveland / Mill Reconstruct	full reconstruct of Mill & Cleveland	Road & Utility improve Capital Fund	Kunkel Eng.; Chad & Barry	Punch list & a property owner drain tile remain	final close out	
2016	Public Works & Property Comm	DNR Private Lead Service Line Program	Operate program to assist private home owners to remove lead water pipes	Public Health	Clerk/Treas. & Utility Super	Entering last 6-9 months of project	Final year outreach to gain high % compliance	Coordination with Utility for public lead sections required
2017	Public Works & Property Comm	Lease Bobcat	Budget amendment #1 shifted this to 3-year lease to own rather than buy	Equipment	DPW Director	Year 2 lease payment to be made		2019 -- \$15,000
2017	Public Works & Property Comm	Replace 2004 Patrol truck	Purchase replacement truck	Equipment	DPW Director	Approved for 2019 expenditure	Competitive bid for truck purchase	2019 -- \$130,000
2019	Public Works & Property Comm	Multi-building LED light optimization	LED lighting upgrades for 873 fixtures using grant & Focus on Energy incentive	Facility Update	Clerk/Treas.	12/6 meeting on fixture installation timeline		2019 -- grant=\$50,000 and muni share = 26,033

City of Waterloo, Wisconsin
PRELIMINARY COST ESTIMATE
2019 Street and Utility Reconstruction Project

November 5, 2018



Reconstruction of Edison Street from Porter Street to Termini and Franklin Street from Edison Street to STH 89. To include replacement of sanitary sewer mains, structures and lateral; replacement of water mains, structures and services; replacement of storm sewer mains, structures and laterals; replacement of curb and gutter, sidewalk, driveway approaches, curb ramps; placement of road base and asphalt pavement; restoration of disturbed areas.

Estimated Sanitary Sewer Quantities

Quantity	Unit	Item	Unit Cost	Item Cost
1,900	LF	Sanitary Sewer Main, 8-Inch PVC	\$58.00	\$110,200.00
550	LF	Sanitary Sewer Lateral, 6-Inch PVC	\$46.00	\$25,300.00
6	EA	Sanitary Sewer Manhole	\$3,900.00	\$23,400.00
3	EA	Connect to Existing Sanitary Main	\$750.00	\$2,250.00
2,450	LF	Granular Backfill, Sanitary Sewer	\$13.50	\$33,075.00
0.33	LS	Erosion Control	\$5,000.00	\$1,650.00
0.33	LS	Traffic Control and Access	\$10,000.00	\$3,300.00
Engineering and Contingencies				\$19,917.50
Total Sanitary Sewer Construction Cost				\$219,092.50

Estimated Water Quantities

Quantity	Unit	Item	Unit Cost	Item Cost
1,700	LF	Water Main, 8-Inch DI	\$68.00	\$115,600.00
7	EA	Gate Valve and Box, 8-Inch	\$1,850.00	\$12,950.00
3	EA	Hydrant Assembly and Lead	\$5,500.00	\$16,500.00
500	LF	Water Service Pipe, 1-Inch Copper	\$52.00	\$26,000.00
6	EA	Connect to Existing Water Main	\$1,200.00	\$7,200.00
2,200	LF	Granular Backfill, Water Main	\$12.00	\$26,400.00
0.33	LS	Erosion Control	\$5,000.00	\$1,650.00
0.33	LS	Traffic Control and Access	\$10,000.00	\$3,300.00
Engineering and Contingencies				\$20,960.00
Total Water Construction Cost				\$230,560.00

City of Waterloo, Wisconsin
PRELIMINARY COST ESTIMATE
2019 Street and Utility Reconstruction Project

November 5, 2018



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Estimated Storm Sewer and Roadway Quantities

Quantity	Unit	Item	Unit Cost	Item Cost
500	LF	Storm Sewer Main and Leads, 24-Inch RCP	\$75.00	\$37,500.00
750	LF	Storm Sewer Main and Leads, 12-Inch RCP	\$68.00	\$51,000.00
7	EA	Storm Sewer Manhole	\$2,500.00	\$17,500.00
8	EA	Storm Sewer Catch Basin	\$1,750.00	\$14,000.00
1,250	LF	Granular Backfill, Strom Sewer	\$10.00	\$12,500.00
4,300	LF	Concrete Curb and Gutter, 30-Inch	\$12.50	\$53,750.00
9,000	SF	Concrete Driveway Approach 6-Inch	\$6.25	\$56,250.00
16,600	SF	Concrete Sidewalk, 4-Inch	\$5.50	\$91,300.00
16	EA	Detectable Warning Field	\$300.00	\$4,800.00
1	LS	Unclassified Excavation	\$35,000.00	\$35,000.00
24	EA	Tree Removal	\$350.00	\$8,400.00
1,100	CY	Undercutting and Base Course Material	\$28.50	\$31,350.00
3,500	TN	Aggregate Base Dense, 1-1/4-Inch	\$16.00	\$56,000.00
2,200	SY	Geotextile Fabric	\$1.50	\$3,300.00
1,650	TN	Hot Mix Asphalt Pavement, 3LT58-28S and 4LT58-28S	\$65.00	\$107,250.00
2,700	SY	Topsoil, Seed, Fertilizer and Mulch	\$8.00	\$21,600.00
0.33	LS	Erosion Control	\$5,000.00	\$1,650.00
0.33	LS	Traffic Control and Access	\$10,000.00	\$3,300.00
Engineering and Contingencies				\$60,645.00
Total Storm Sewer and Roadway Construction Cost				\$667,095.00

Summary of Cost

Estimated Construction Cost	\$1,015,225.00
Engineering and Contingencies	\$101,522.50
Total Estimated Project Cost	\$1,116,747.50

2018-11-30 Preliminary Plan Set from
Jackie Kohn-Born

CITY OF WATERLOO, WISCONSIN

2019 STREET AND UTILITY RECONSTRUCTION

UTILITIES

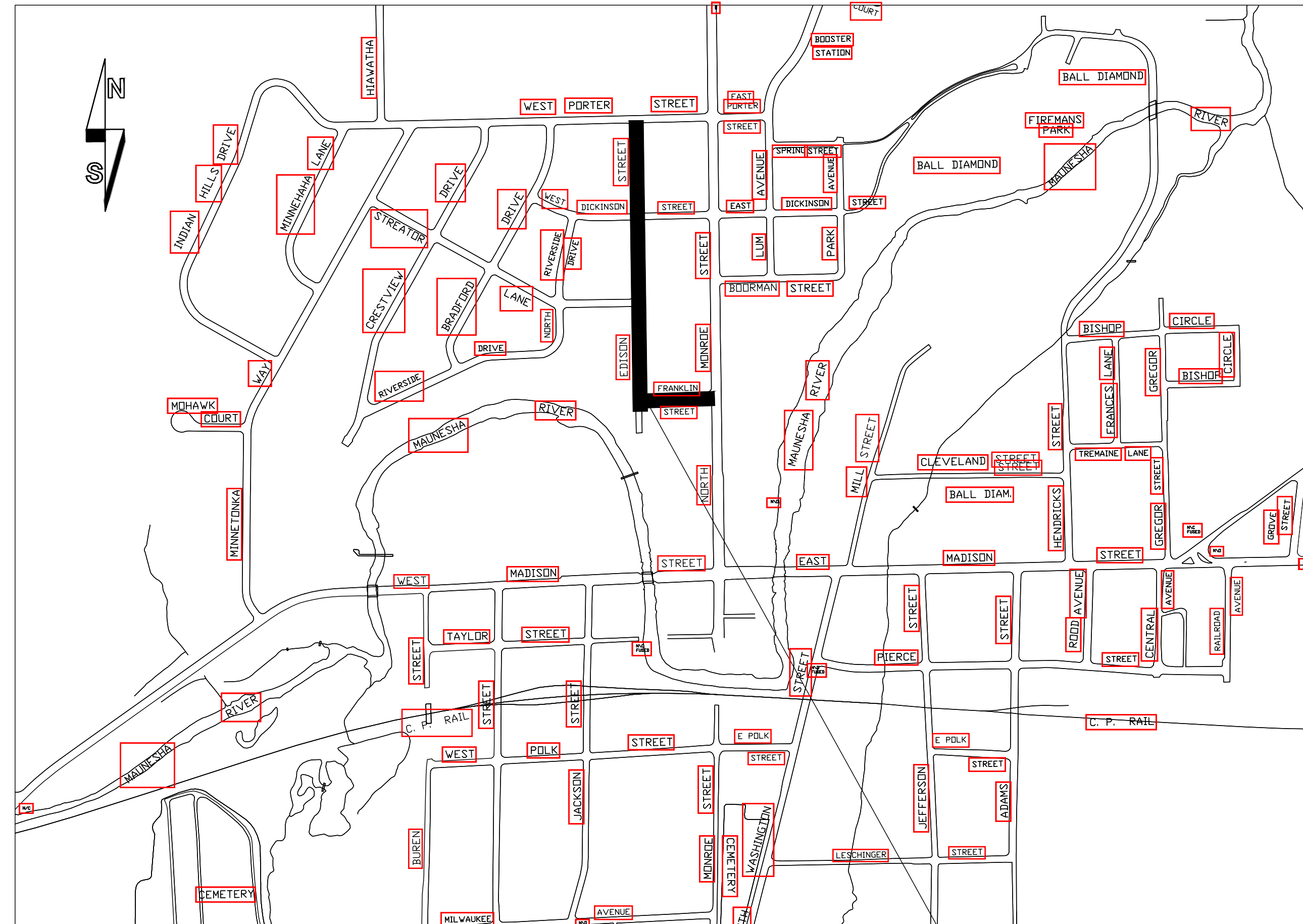
GAS
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PHONE (414) 944-5767
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EMAIL: richard.wroblewski@we-energies.com
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211 HENDRIX ST
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CONTACT: DANA GILLETT
EMAIL: dana.gillett@ftr.com

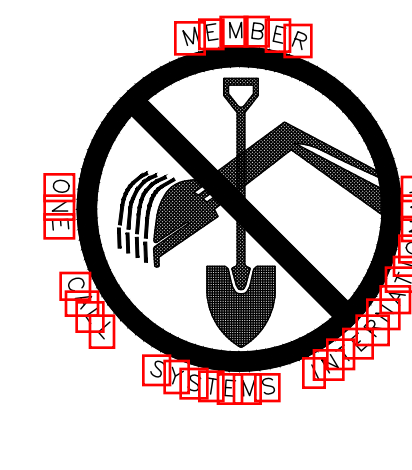
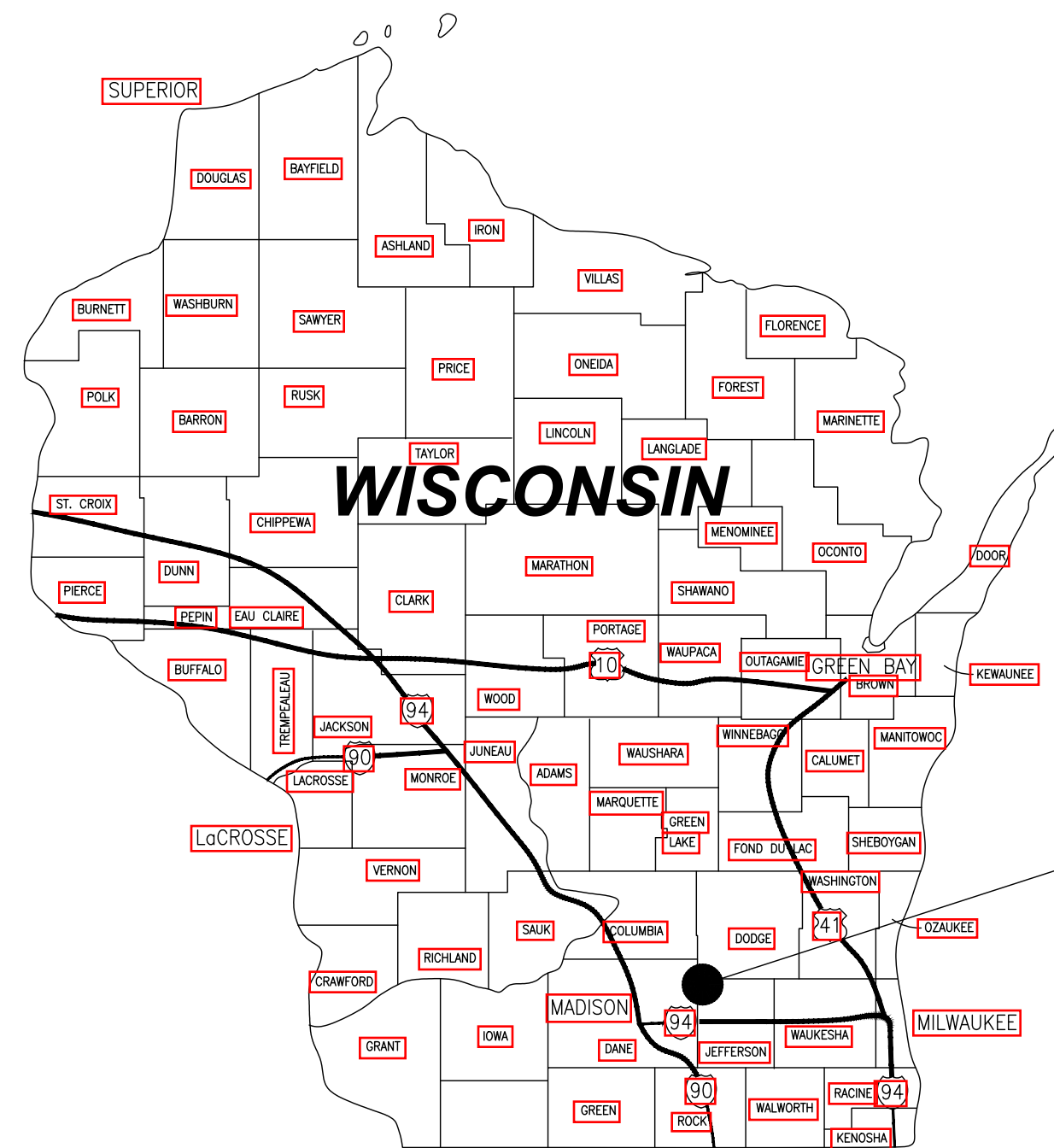
CABLE TELEVISION
CHARTER COMMUNICATIONS
2701 DANIELS STREET
MADISON, WI 53718
PHONE 920-349-3202 X103
CONTACT: RON FRASE
EMAIL: RON.FRASE@CHARTERCOM.COM



SHEET INDEX

- 2 EDISON STREET SEWER AND WATER PLAN
- 5 FRANKLIN STREET SEWER AND WATER PLAN
- 6 EDISON STREET STORM AND STREET PLAN
- 9 FRANKLIN STREET STORM AND STREET PLAN
- 10 SEWER AND WATER DETAILS
- 11 STREET DETAILS AND TYPICAL CROSS-SECTIONS
- 12 TYPICAL CROSS-SECTIONS
- 13 EROSION AND SEDIMENT CONTROL DETAILS

PROJECT LOCATION



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE

811

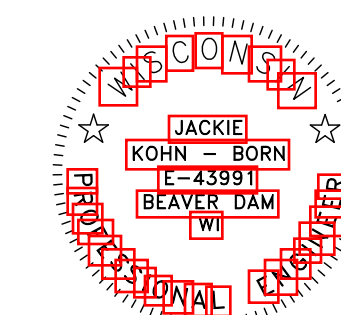
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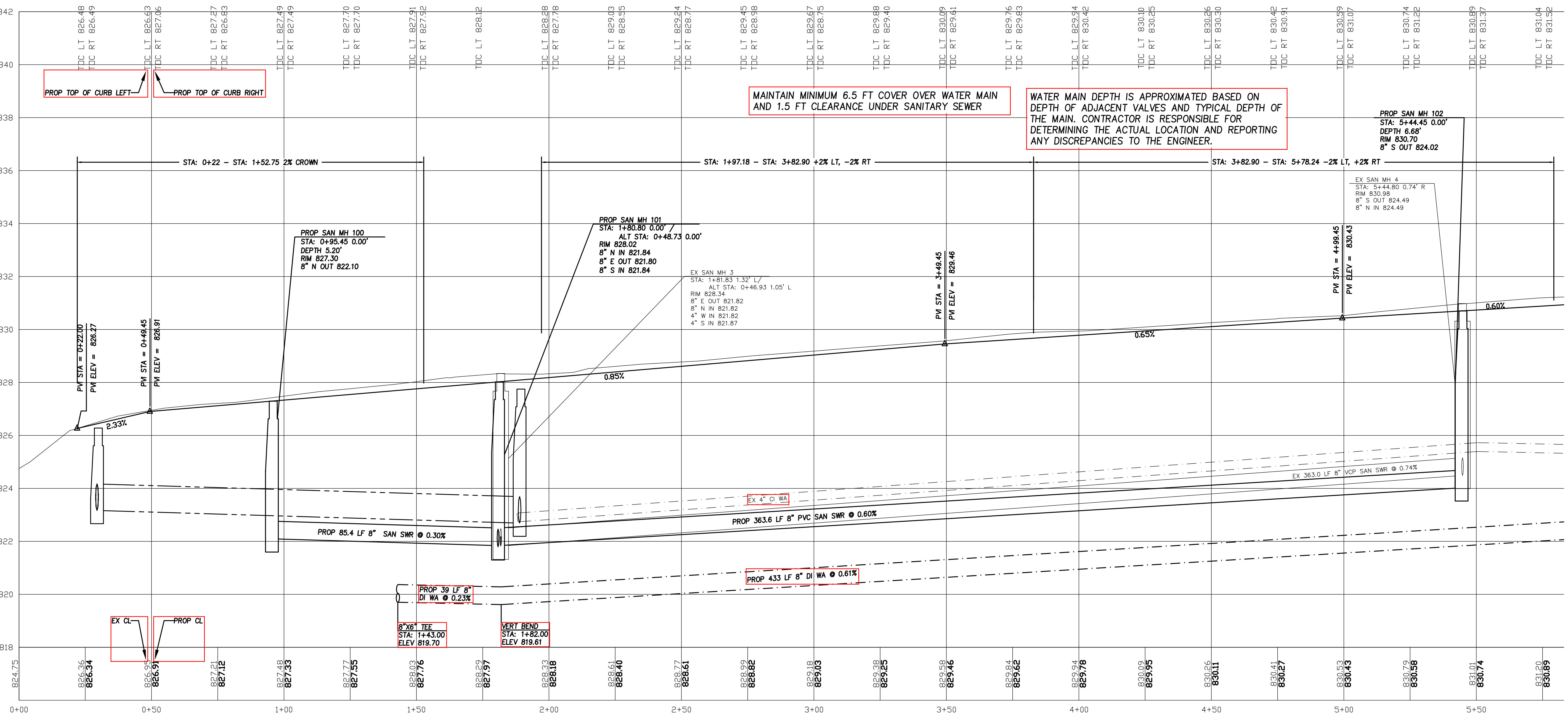
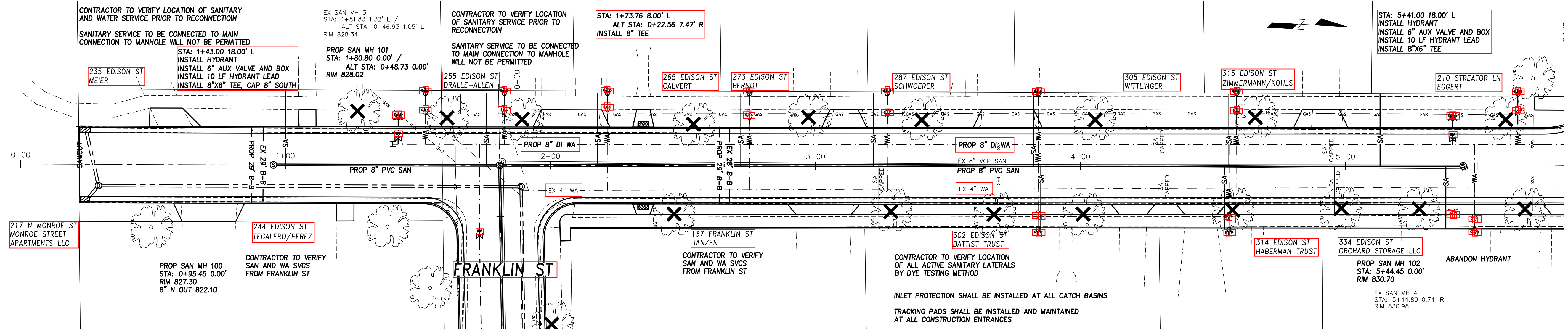
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REQUIRES MINIMUM OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.





KUNKEL
engineering
group

107 Parallel Street
Beaver Dam, WI 53916
(920)356-9447
Fax (920)356-9454

DESIGNED BY:	DATE	INITIALS	DATE	INITIALS
DRAWN BY:	8/2018	JKB	14 REVISION BY:	8/2018
CHECKED BY:	8/2018	JKB	2nd REVISION BY:	8/2018
APPROVED BY:	8/2018	JKB	ASBUILT BY:	8/2018

NOTE:
1. GENERAL UTILITIES AND/OR STRUCTURES BOTH ABOVE AND BELOW GROUND HAVE BEEN LOCATED ON THESE PLANS. THESE LOCATIONS ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND/OR STRUCTURES. WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE ASSUMED TO BE A PART OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND/OR STRUCTURES. WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE ASSUMED TO BE A PART OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND/OR STRUCTURES. WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE ASSUMED TO BE A PART OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND/OR STRUCTURES. WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE ASSUMED TO BE A PART OF THE PROJECT.

City of Waterloo, WI

2019 Street and Utility Reconstruction

Sanitary Sewer and Water Main Plan

Edison Street

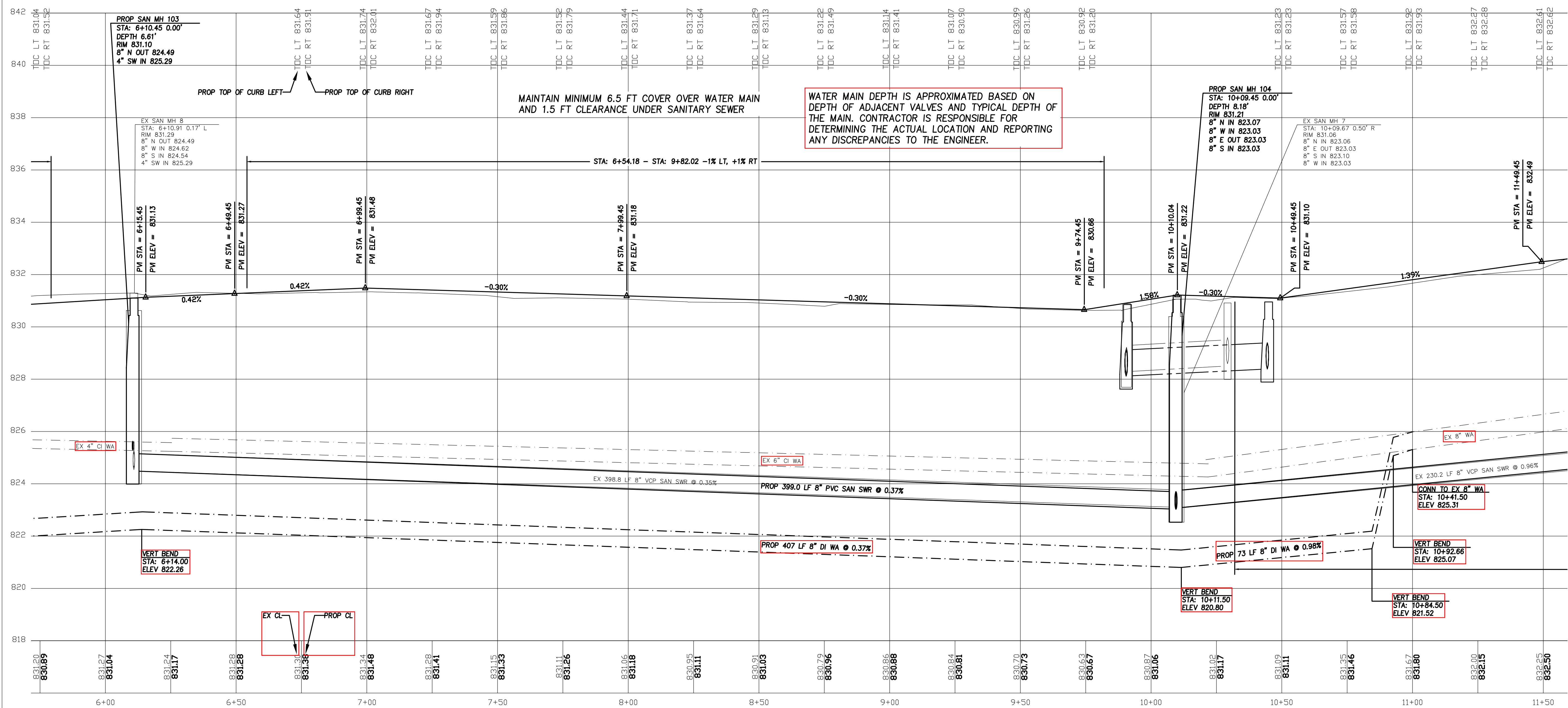
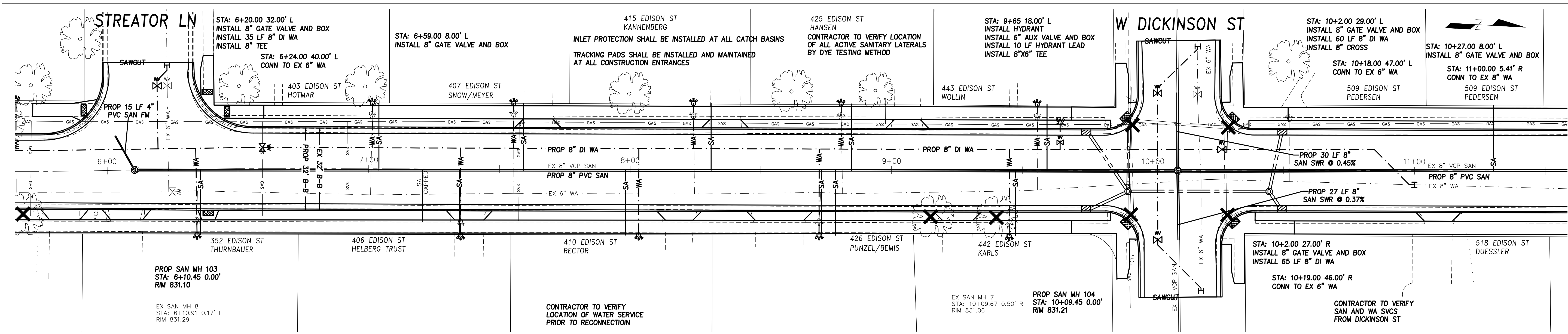
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KU18.1051.00

OWNER PROJ NO:

SHEET NUMBER:
2 of 13



KUNKEL
 engineering
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107 Parallel Street
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DESIGNED BY:	DATE	INITIALS	DATE	INITIALS
DRAWN BY:	8/20/18	JKB	8/20/18	JKB
CHECKED BY:		###		###
APPROVED BY:		###		###
14 REVISION BY:		###		###
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ASBUILT BY:		###		###

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 2. ANY STREET RIGHT OF WAY LINES OR PROPERTY LINES SHOWN ON THESE PLANS ARE ONLY GENERAL APPROXIMATIONS OF SAID LINES AND ARE NOT INTENDED TO BE USED BY ANY NON-CITY PERSONNEL FOR ANY PURPOSE WITHOUT FIRST CONSULTING WITH THE CITY ENGINEER ON THE PROJECT ENGINEER OR KUNKEL ENGINEERING GROUP.

City of Waterloo, WI

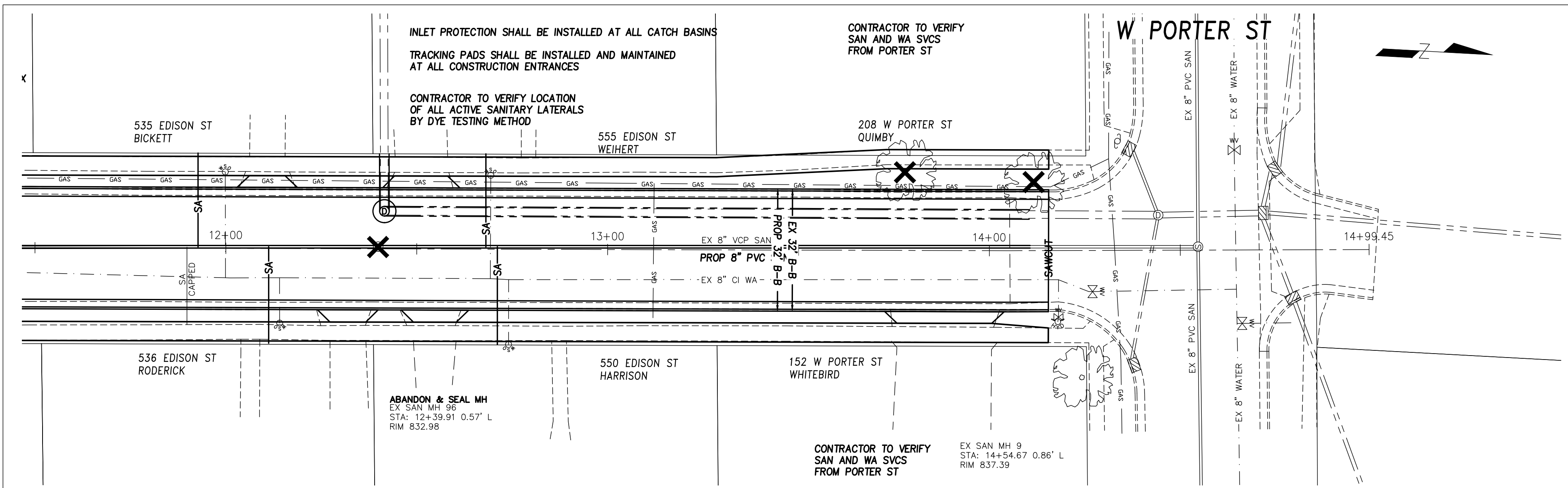
2019 Street and Utility Reconstruction
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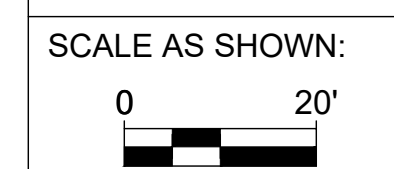


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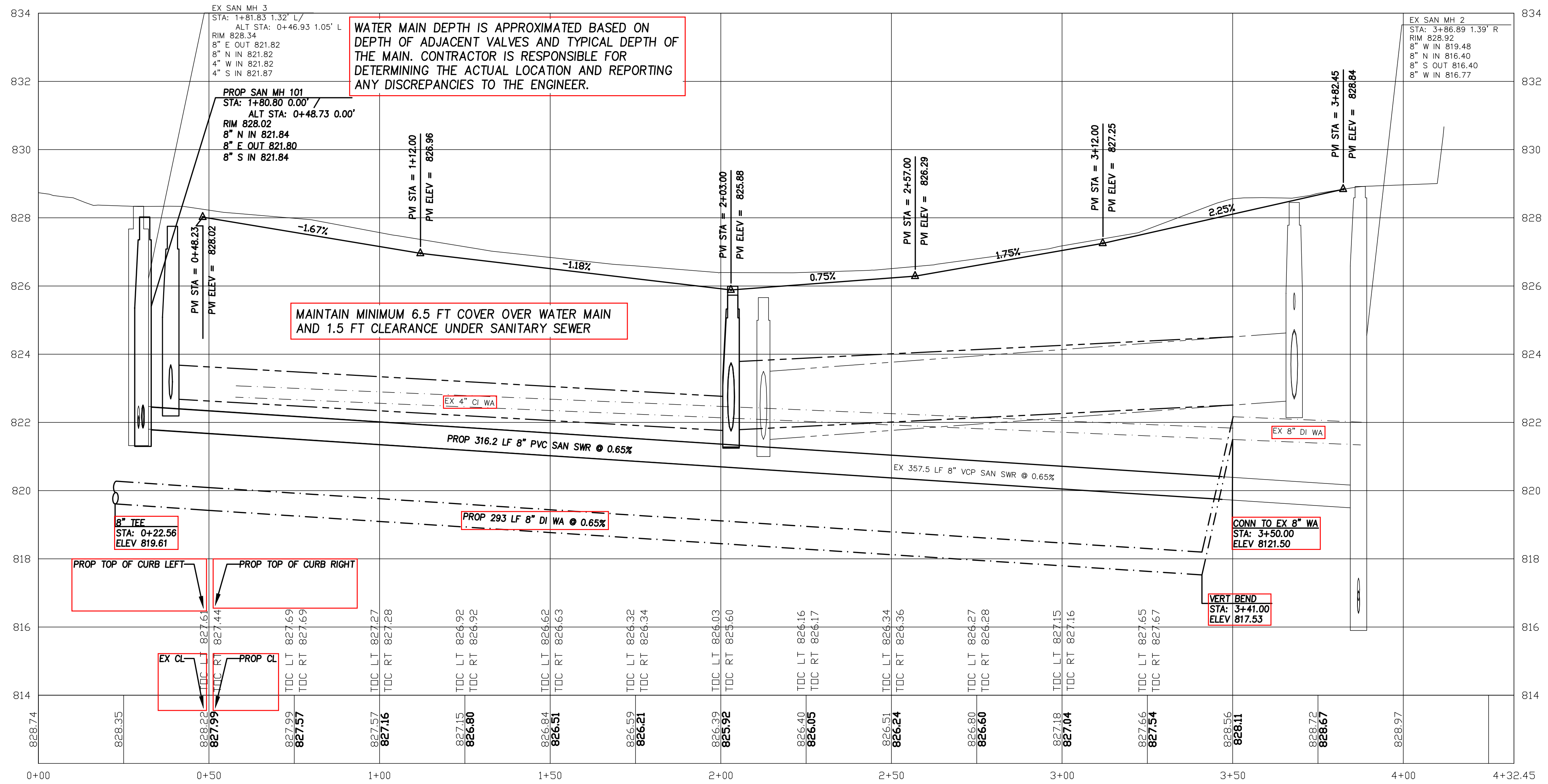
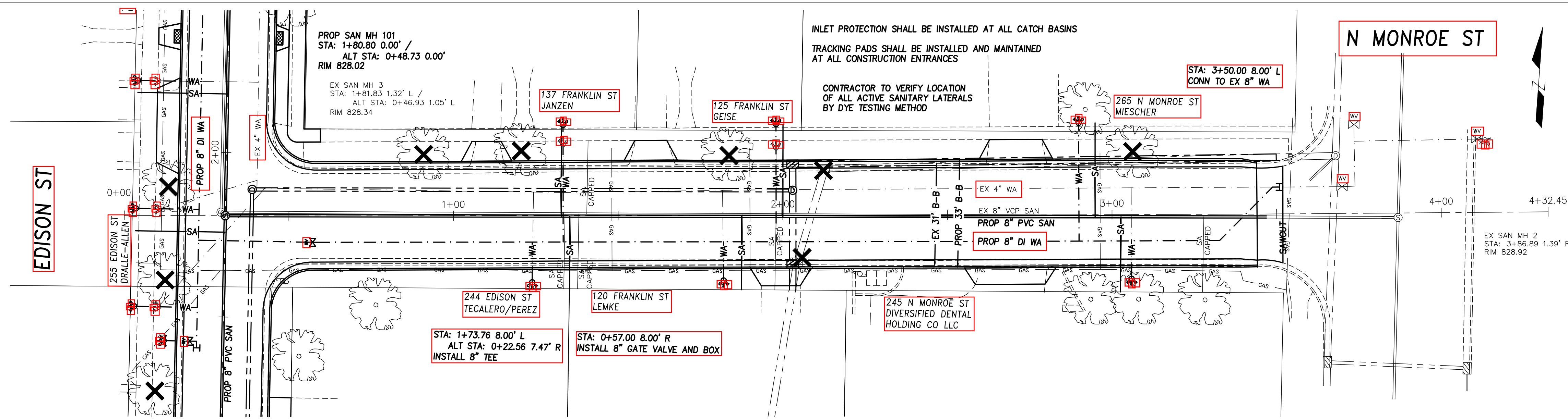
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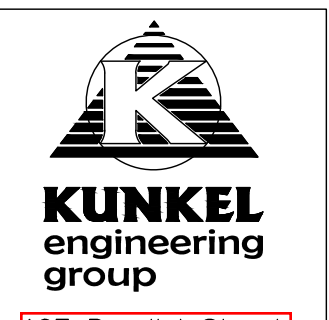
SHEET NUMBER:
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WATER MAIN DEPTH IS APPROXIMATED BASED ON DEPTH OF ADJACENT VALVES AND TYPICAL DEPTH OF THE MAIN. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION AND REPORTING ANY DISCREPANCIES TO THE ENGINEER.

MAINTAIN MINIMUM 6.5 FT COVER OVER WATER MAIN AND 1.5 FT CLEARANCE UNDER SANITARY SEWER

INLET PROTECTION SHALL BE INSTALLED AT ALL CATCH BASINS
TRACKING PADS SHALL BE INSTALLED AND MAINTAINED AT ALL CONSTRUCTION ENTRANCES
CONTRACTOR TO VERIFY LOCATION OF ALL ACTIVE SANITARY LATERALS BY DYE TESTING METHOD

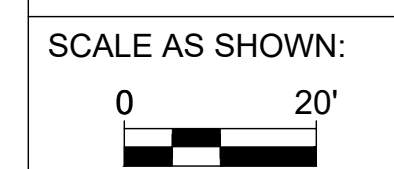


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INITIALS	DATE	DESCRIPTION
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JKB	8/20/18	INITIALS

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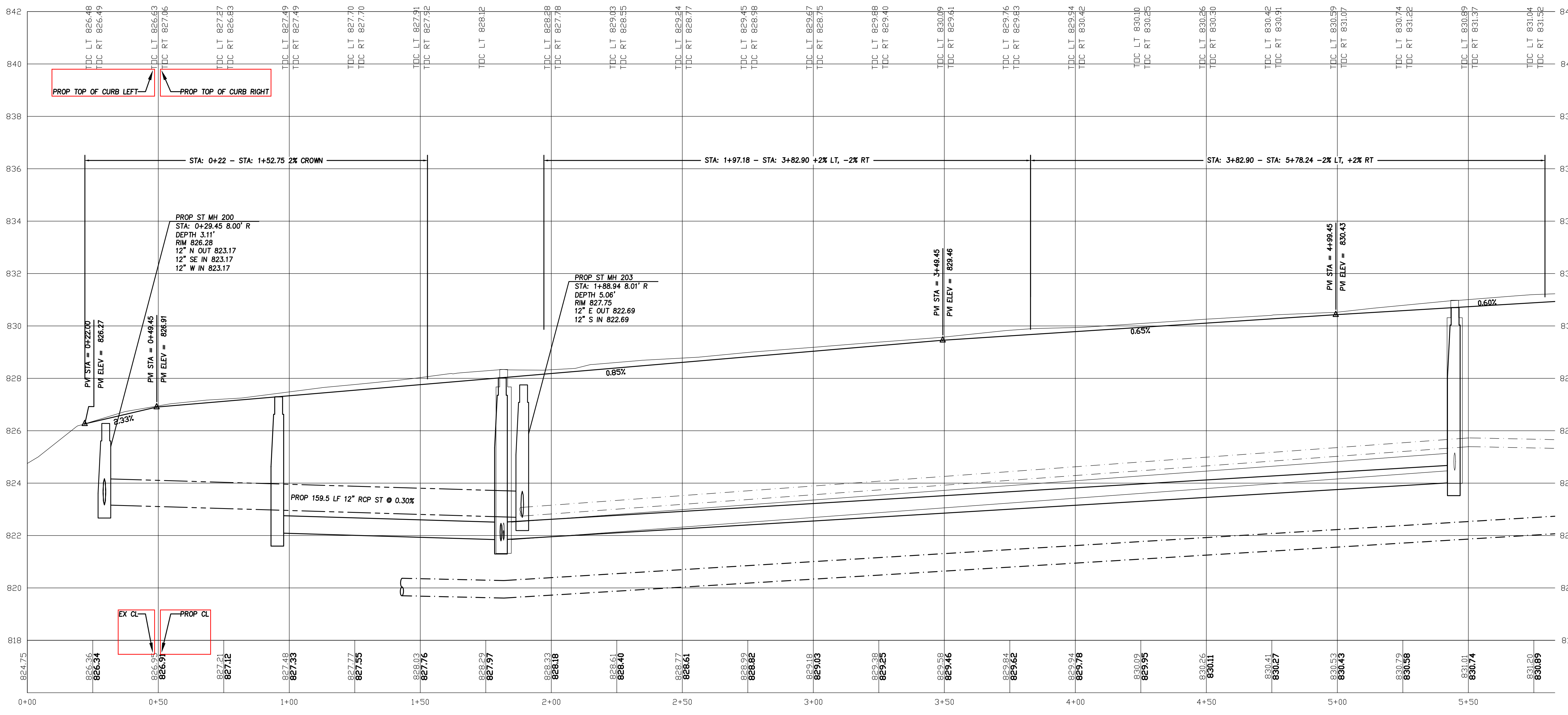
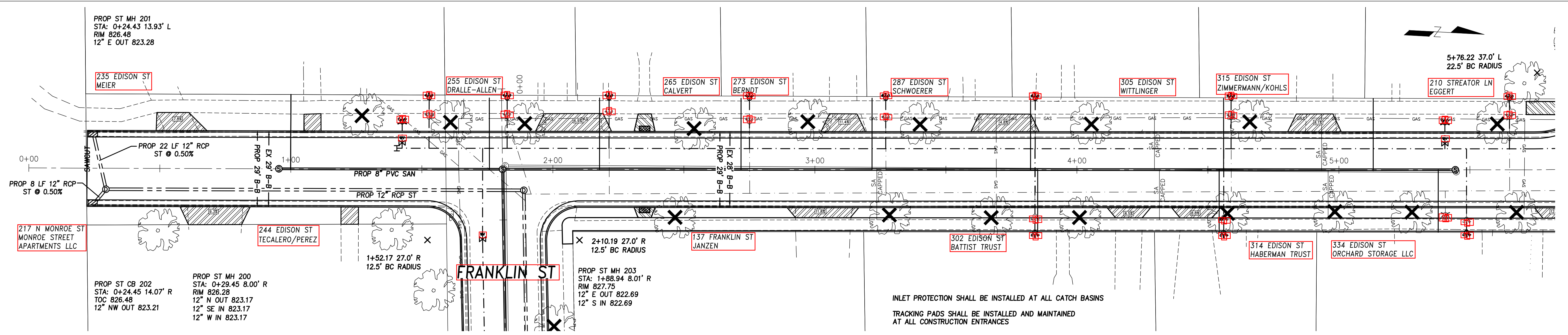
City of Waterloo, WI
2019 Street and Utility Reconstruction
Sanitary Sewer and Water Main Plan
Franklin Street
Sta: 0+00 to Sta: 4+50



ENGINEER PROJ NO:
KU18.1051.00

OWNER PROJ NO:

SHEET NUMBER:
5 of 13



KUNKEL
engineering
group

107 Parallel Street
Beaver Dam, WI 53916
(920)356-9447
Fax (920)356-9454

DESIGNED BY:	DATE:	DATE:
DRAWN BY:	8/2018	8/2018
CHECKED BY:	JKB	JKB
APPROVED BY:	###	###
ASBUILT BY:	###	###
INITIALS	DATE	DATE
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City of Waterloo, WI

2019 Street and Utility Reconstruction

Storm Sewer and Street Plan

Edison Street

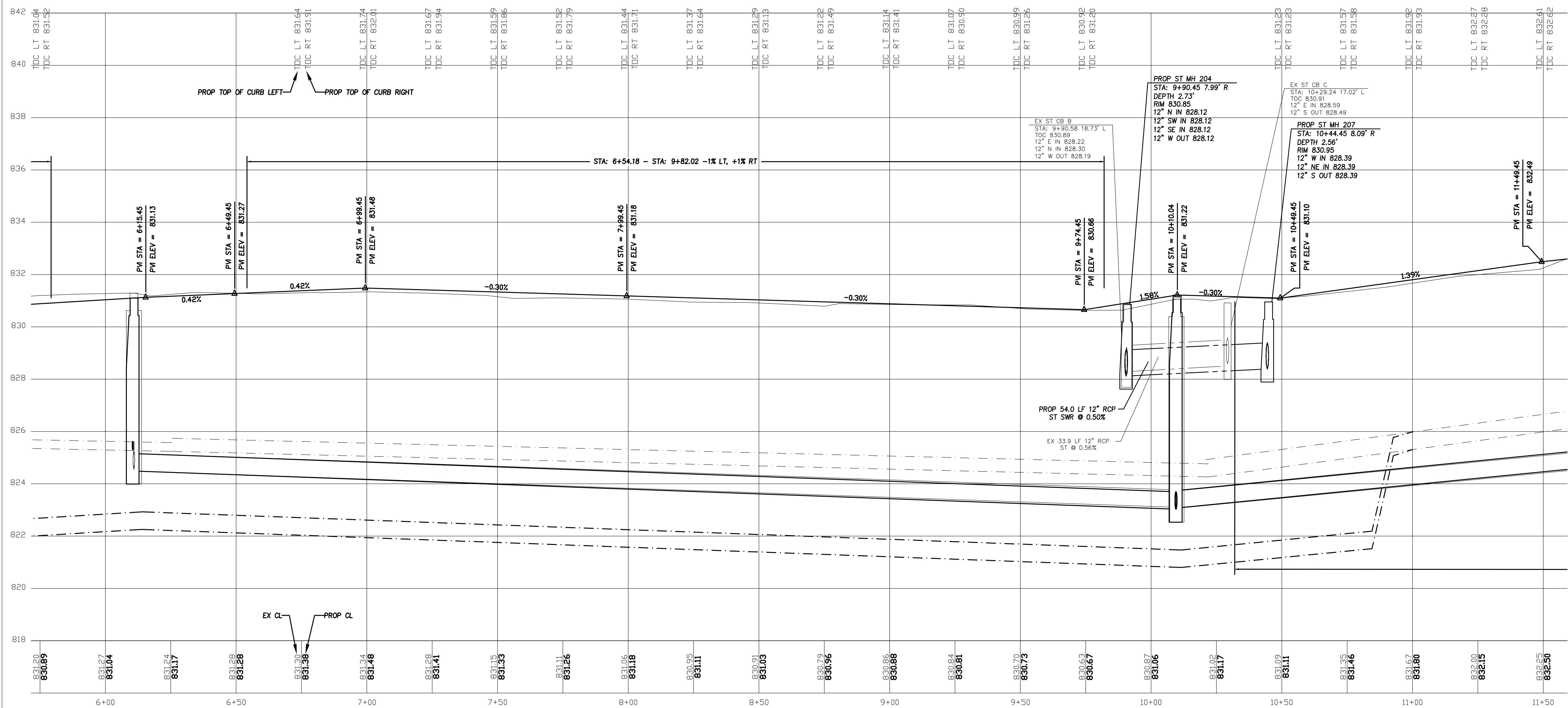
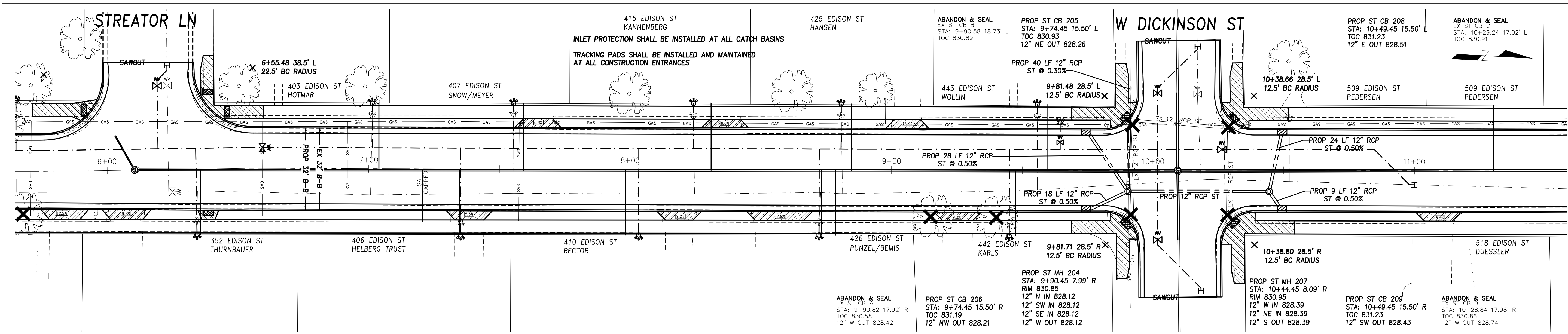
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SCALE AS SHOWN:

ENGINEER PROJ NO:
KU18.1051.00

OWNER PROJ NO:

SHEET NUMBER:
6 of 13



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107 Parallel Street
Beaver Dam, WI 53916
(920)356-9447
Fax (920)356-9454

DESIGNED BY:	DATE:	INITIALS:	DATE:
DRAWN BY:	8/20/18	UJB	8/20/18
CHECKED BY:	8/20/18	###	###
APPROVED BY:	###	###	###

14 REVISION BY: 2nd REVISION BY: ASBUILT BY:

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City of Waterloo, WI

2019 Street and Utility Reconstruction

Storm Sewer and Street Plan

Edison Street

Sta. 6+00 to Sta. 11+50

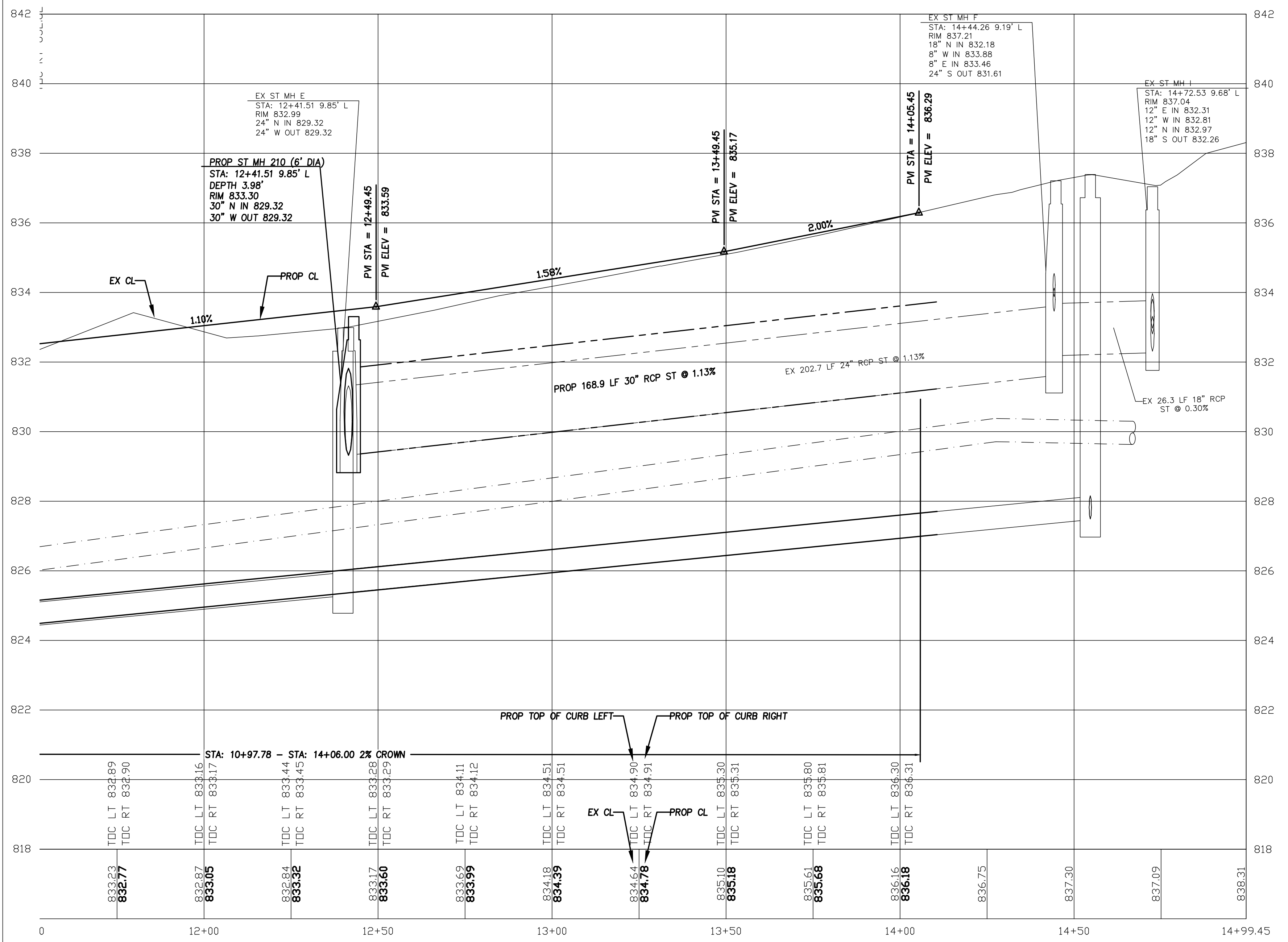
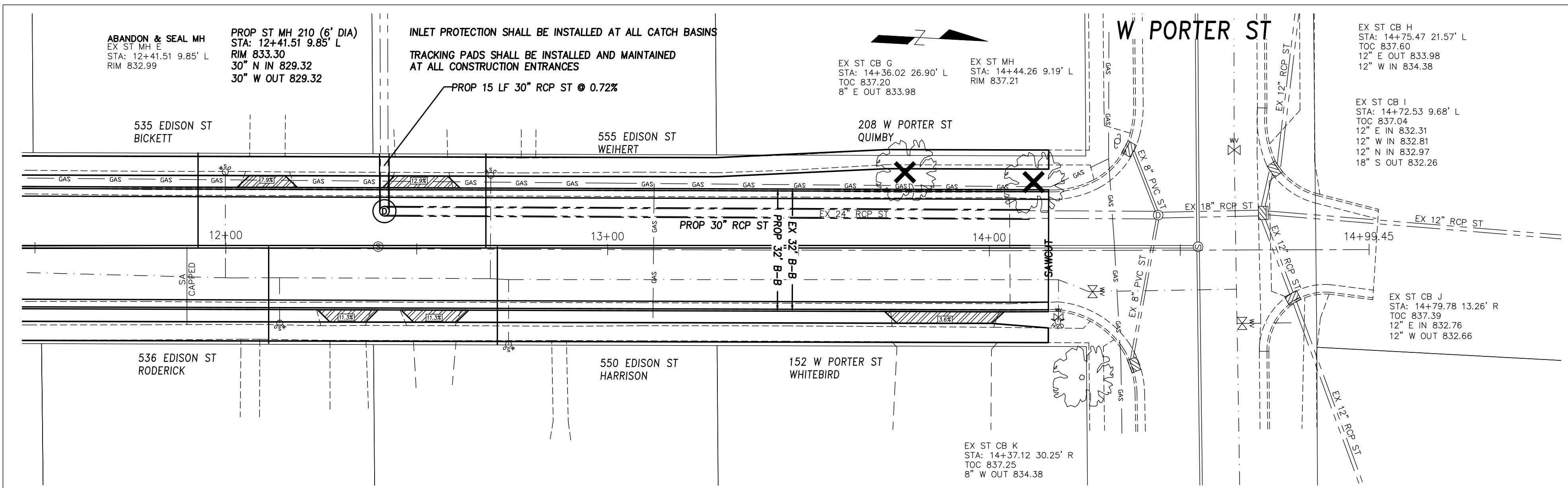
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ENGINEER PROJ NO:
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OWNER PROJ NO:

SHEET NUMBER:
7 of 13

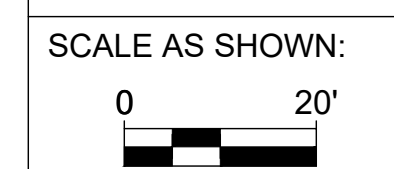


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DESIGNED BY:	INITIALS	DATE
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CHECKED BY:	###	###
APPROVED BY:	###	###
1st REVISION BY:	###	###
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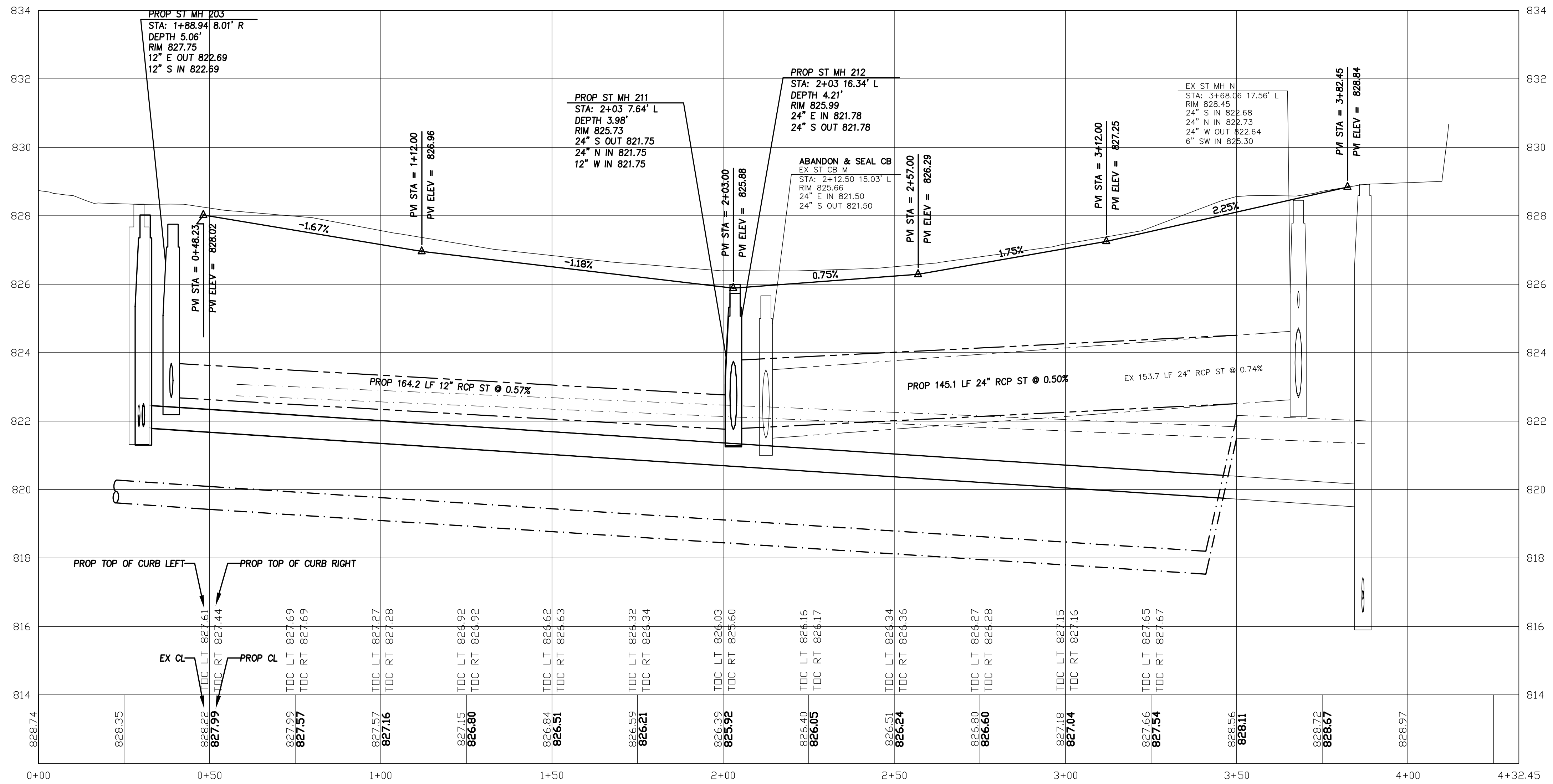
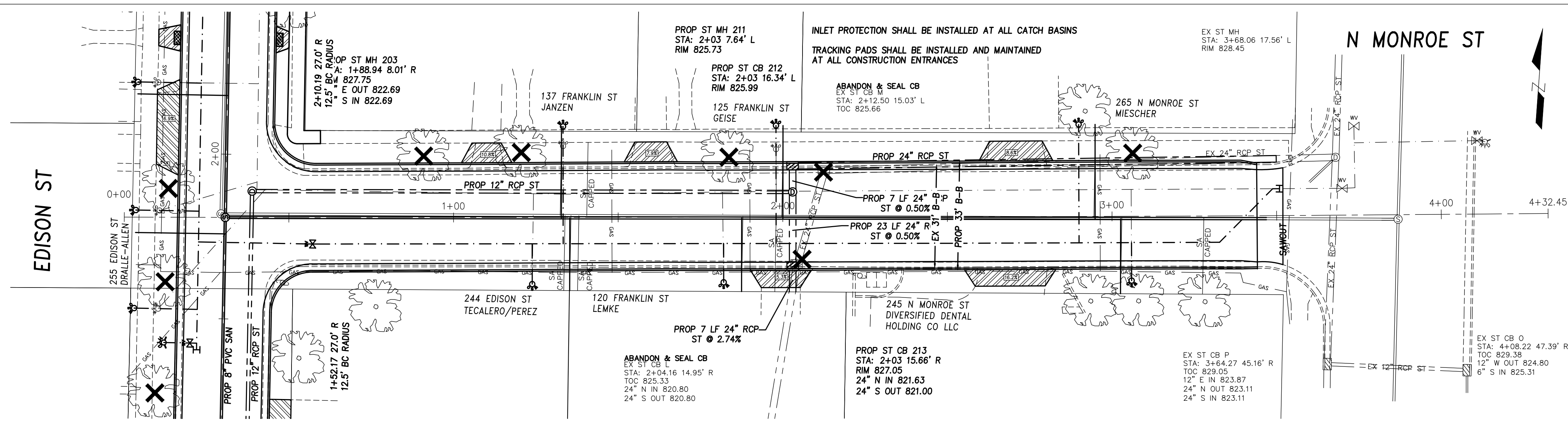
City of Waterloo, WI
2019 Street and Utility Reconstruction
Storm Sewer and Street Plan
Edison Street
Sta: 12+00 to Sta: 15+00



ENGINEER PROJ NO:
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APPROVED BY:	###	###	###

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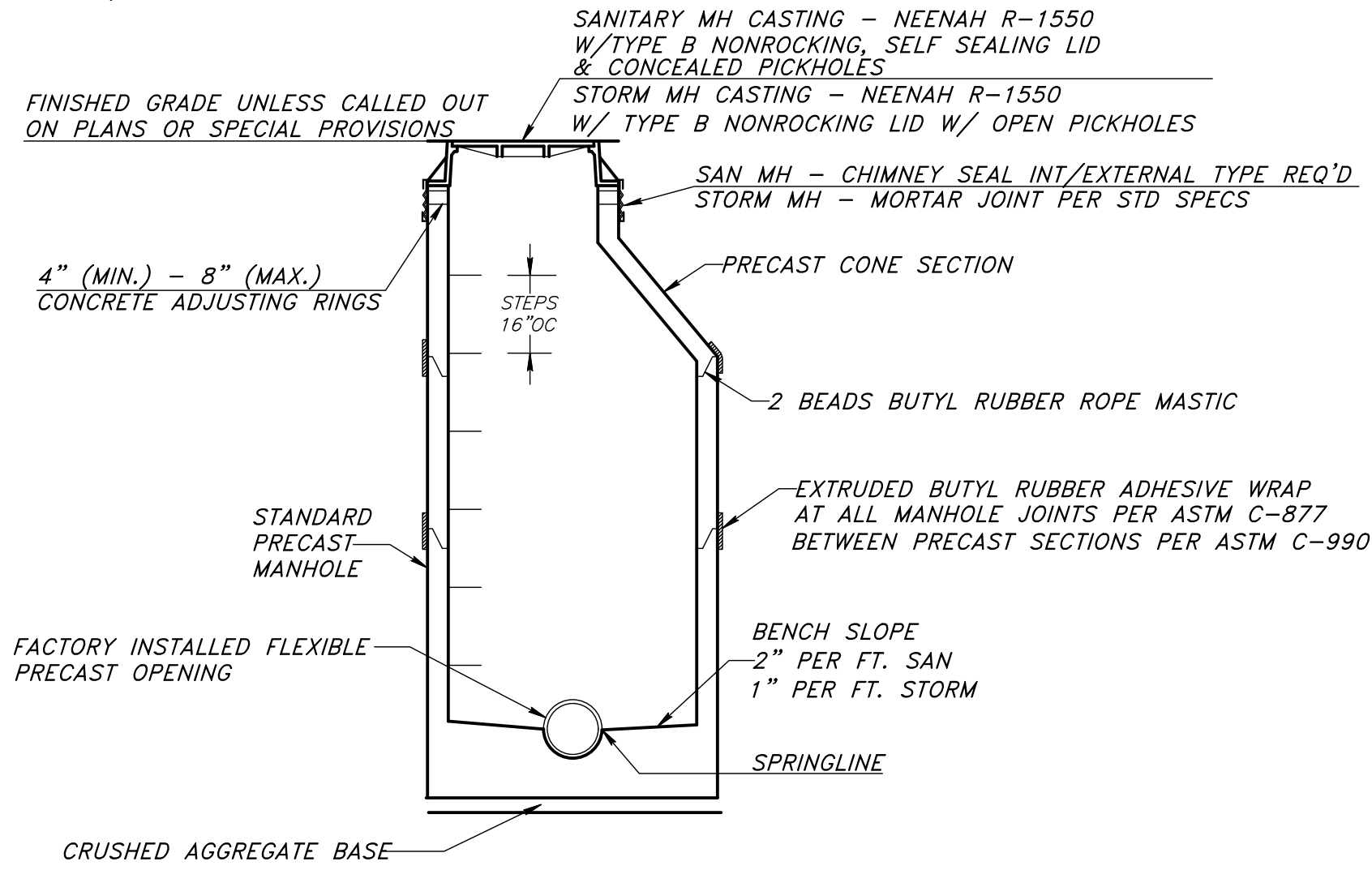
City of Waterloo, WI
2019 Street and Utility Reconstruction
Storm Sewer and Street Plan
Franklin Street
Sta: 0+00 to Sta: 4+50

SCALE AS SHOWN:
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KU18.1051.00
OWNER PROJ NO:

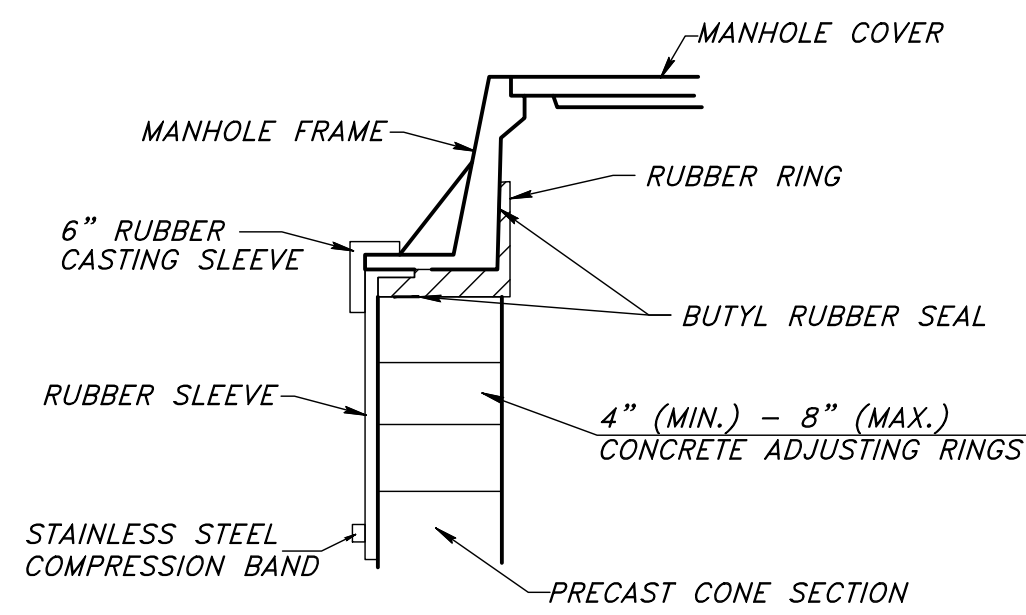
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9 of 13

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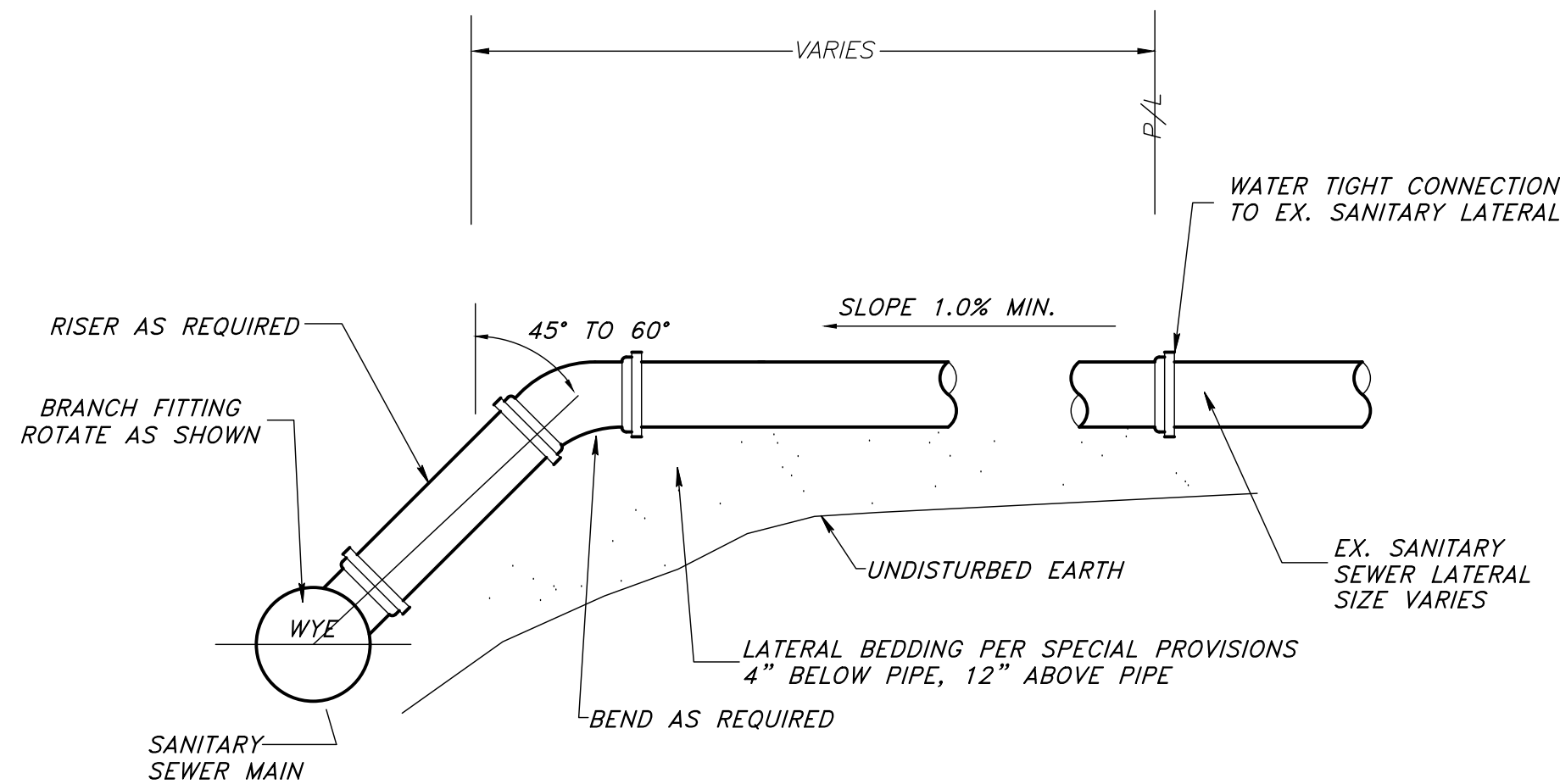
FRAME AND LID FOR SEALED SAN SEWER MANHOLES WHERE CALLED OUT ON PLANS, FURNISH AND INSTALL WATERTIGHT FRAME AND BOLTED LID, NEENAH R-1661 OR EQUAL



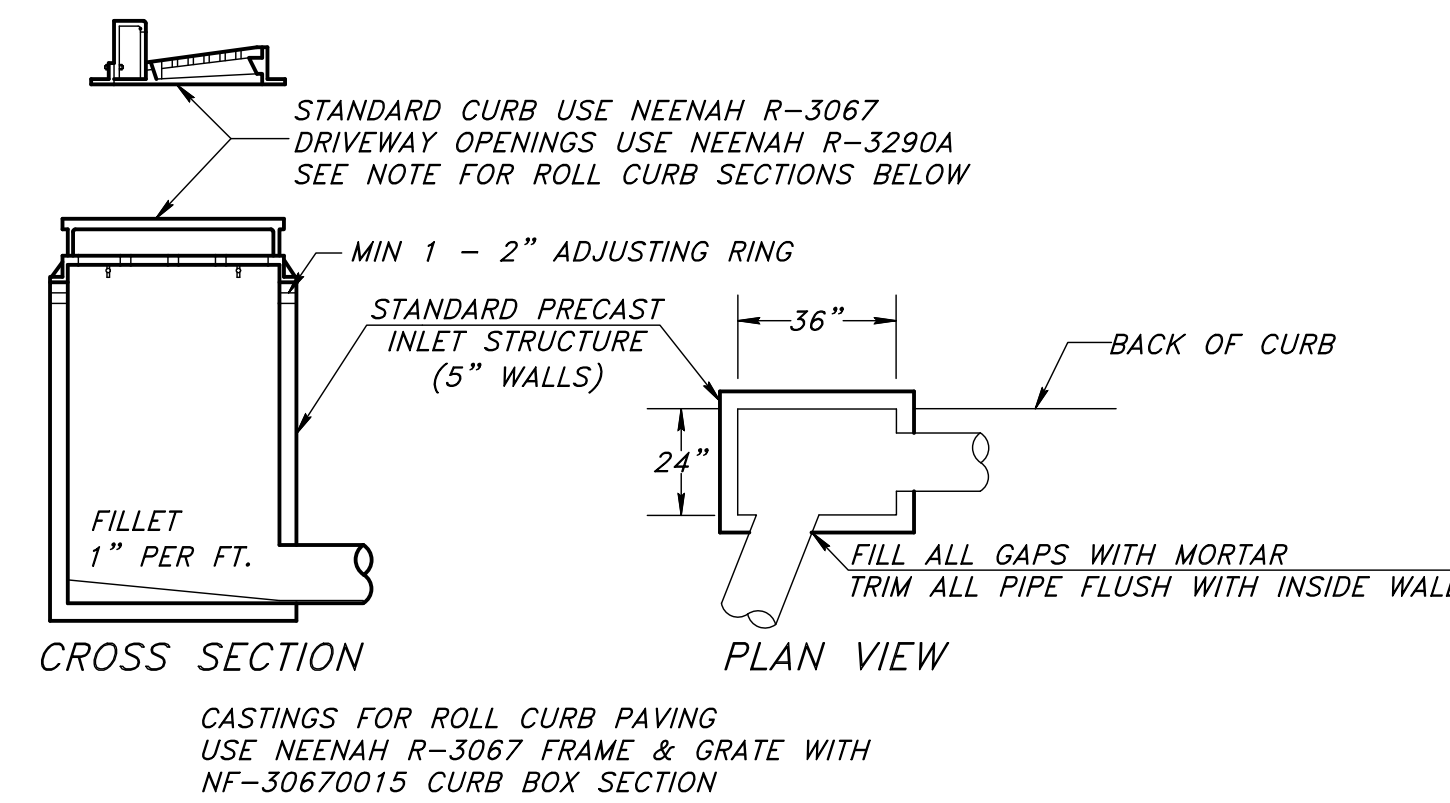
STANDARD MANHOLE DETAIL



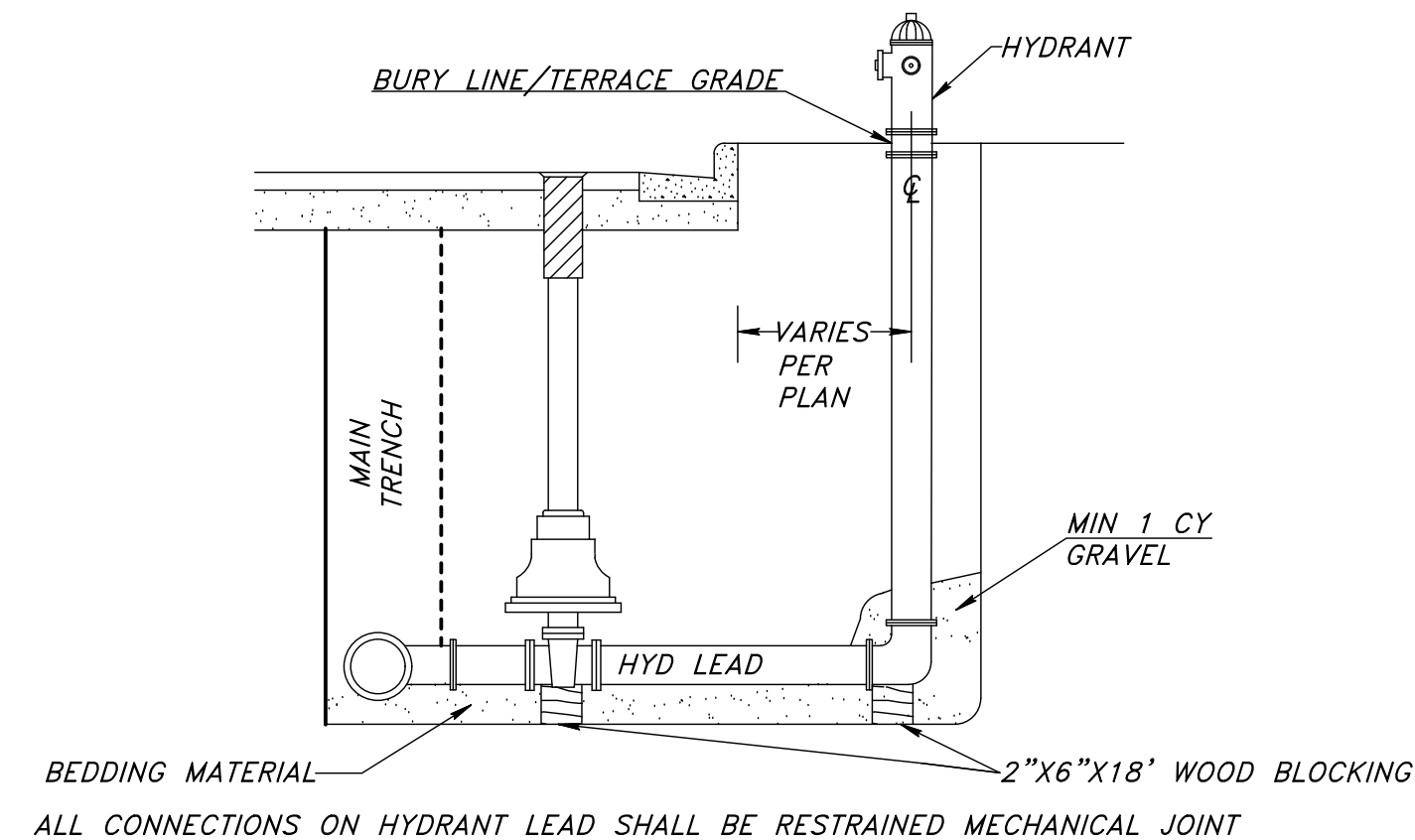
INTERNAL/EXTERNAL FRAME/CHIMNEY SEAL



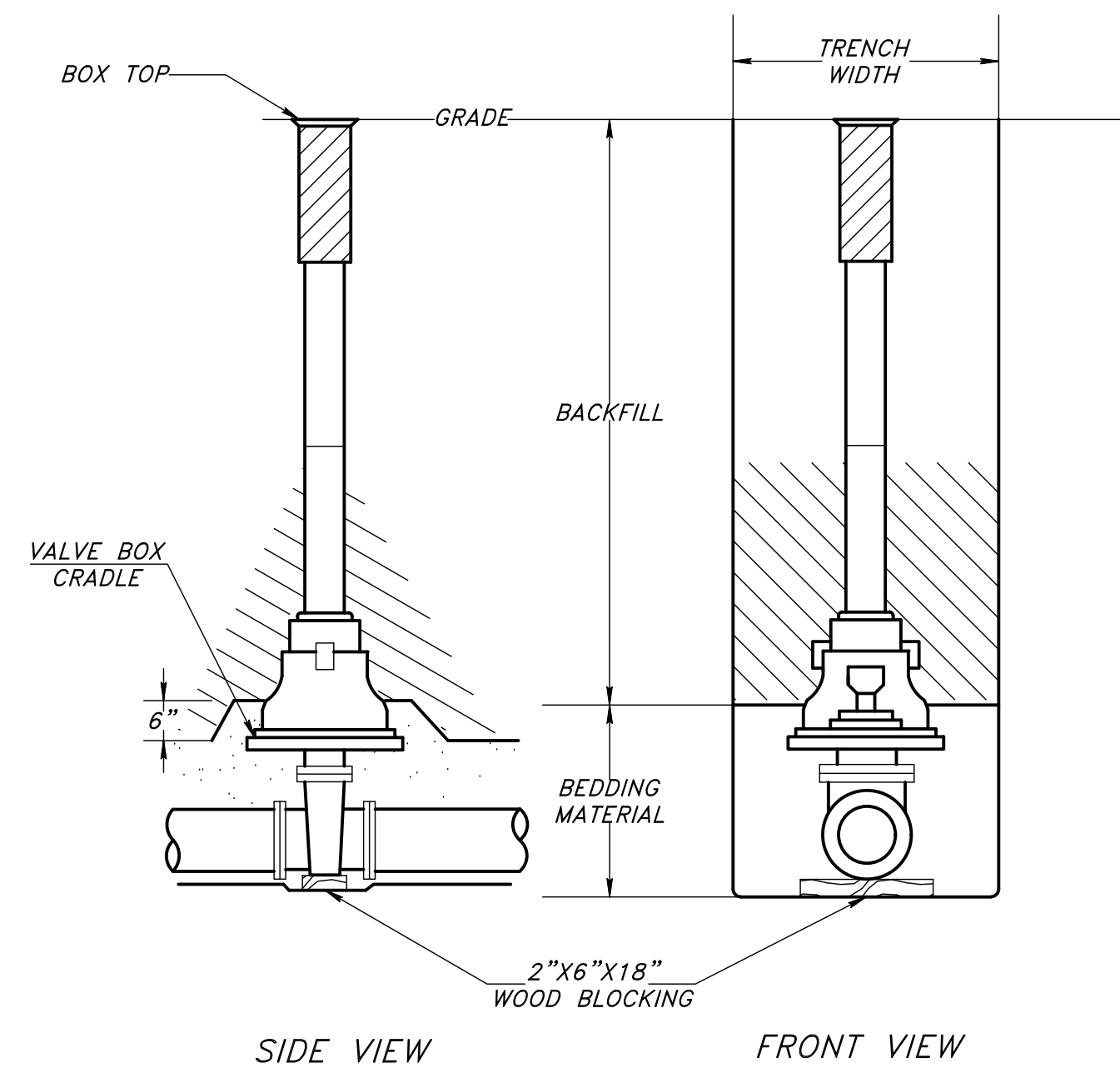
SANITARY SEWER LATERAL



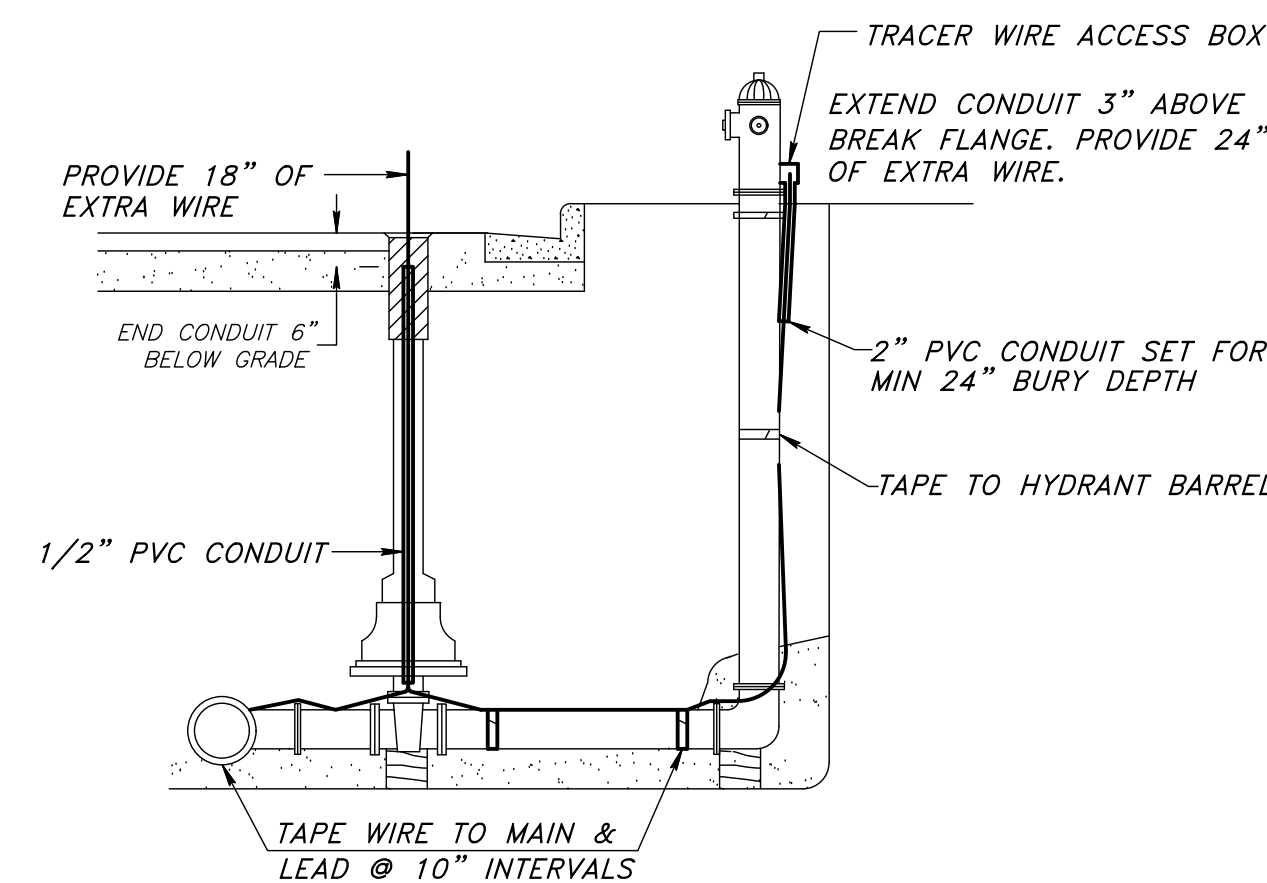
STANDARD INLET DETAIL



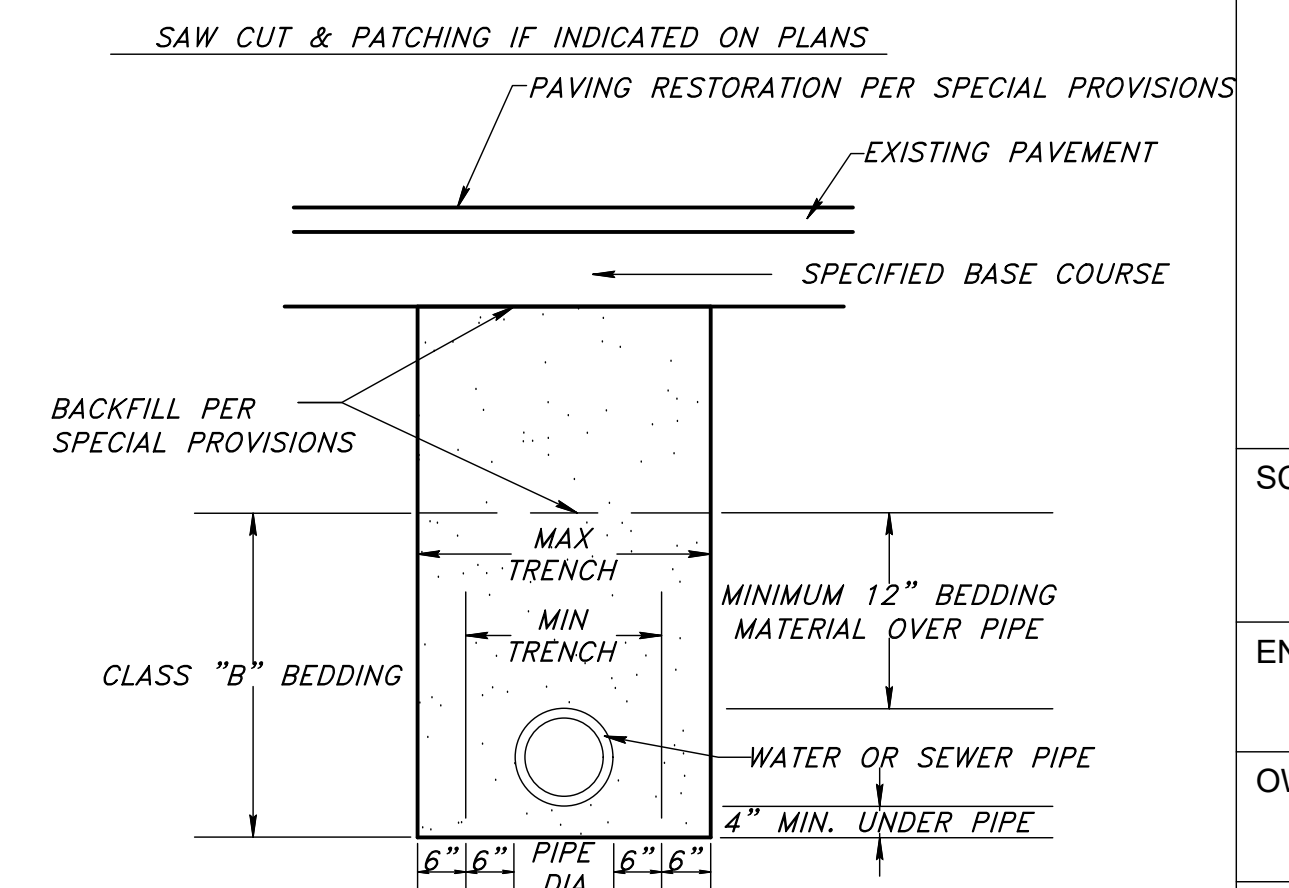
HYDRANT SETTING DETAIL WITH AUXILIARY VALVE



GATE VALVE & BOX SETTING DETAIL



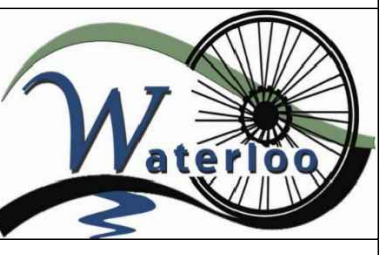
WATERMAIN TRACER WIRE DETAIL
 LOCATING WIRE SHALL BE INSTALLED AT ALL HYDRANTS AND VALVES.



STANDARD TRENCH DETAIL

WATER & SEWER NOTES

- Standard Specifications:**
Install all Sewer and Watermain under this contract as per the provisions of the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, and per the Project's Special Provisions.
- Watermain:**
Shall be Ductile Iron pipe, thickness class 52, conforming to A.W.W.A. C-151, cement mortar lined conforming to A.W.W.A. C-104, and polyethylene wrapped conforming to A.W.W.A. C-105 per Section 8.18.0 of the Standard Specifications. Fittings shall be mechanical joint ductile iron conforming to A.W.W.A. C-110. All watermain to be installed with external copper straps.
- Gate Valves**
Shall be Mueller Company A2370-20, conforming to A.W.W.A. C-500. Valve Box shall be Mueller Buffalo type adjustable iron valve boxes, complete with round or oval base adjustable box and lids, or approved equal.
- Hydrants**
Shall be Mueller A423 hydrants with 1-1/2" pentagon operating nut, 4-1/2" pumper nozzle, 2-1/2" hose nozzles, NFT threads, chains on caps, traffic break-flange, 16" breakaway, stainless steel bolts below grade, mechanical joint shoe, barrel for 6 - 1/2 foot bury. Furnish in red color. All joints on hydrant leads shall have restrained mechanical joints.
- Water service laterals**
All water service laterals shall be 1" Type K continuous copper pipe. Corporation stops shall be Mueller H15000 for copper service pipe. Key stops shall be Mueller H15154 for 1-inch copper pipe, supplied with Mueller 6 foot - 6 inch H10385 arch base boxes, complete with stationary rod and one-piece lid.
- Sanitary Sewer & Lateral Pipe**
Shall be PVC SDR-35 pipe, with rubber gasket joints conforming to Section 8.10.1 - 8.10.6(a) of the Standard W&S Specification.
- Sanitary Sewer Manholes**
Manholes shall be pre-cast concrete, conforming to section 3.5.0 of the Standard W&S Specifications and ASTM C-478. Furnish manholes of a size to accommodate the intersecting sewer per the Standard W&S Specifications, with a minimum 48" inside diameter. All pipe connections to new manholes are to be made with factory installed flexible boots. Install external rubber sleeve frame/chimney seals shall be manufactured by Cretex International or equal. Frames and lids shall be Neenah R-1550 frame, Type "B" sealed non-rocking lid with concealed pick holes.
- Pipe bedding**
Shall be Class B as per sections 3.2.6 & 6.43 of the Wisconsin W&S Specifications. Bedding sand will not be allowed.
- Pipe Backfill**
Shall be mechanically compacted excavated material, or granular material as per Section 209 of the Standard Specifications.



KUNKEL engineering group
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 Beaver Dam, WI 53916
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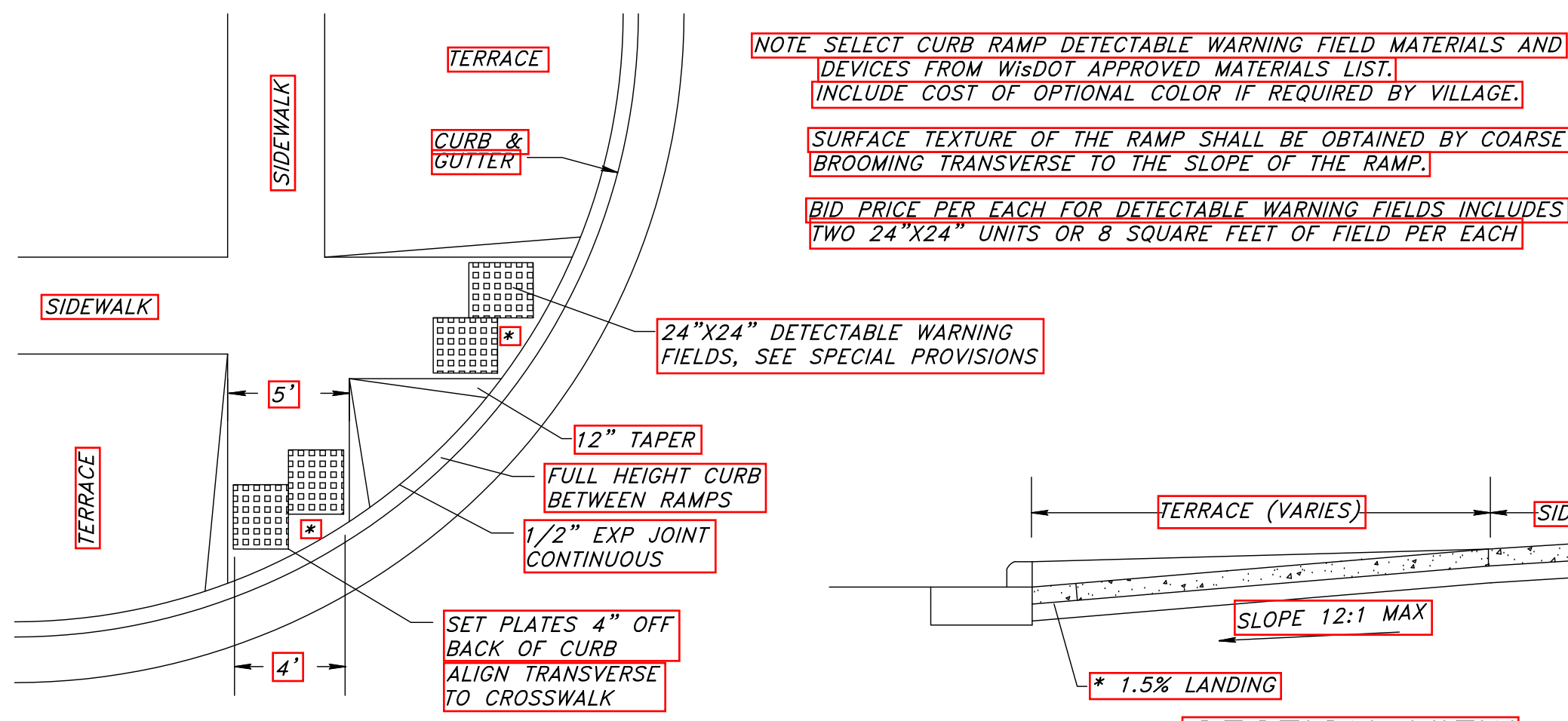
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DRAWN BY:	8/2018	JKB	###
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APPROVED BY:	###	###	###
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2nd REVISION BY:	###	###	###
ASBUILT BY:	###	###	###

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City of Waterloo, WI
 2019 Street and Utility Reconstruction
 Sewer and Water Detail Drawings

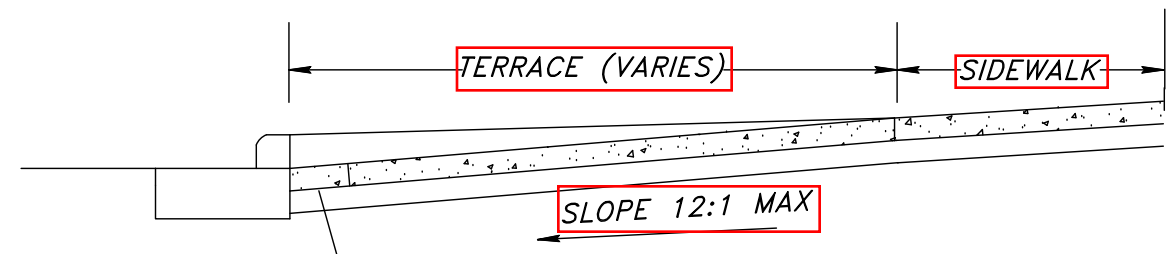
SCALE AS SHOWN:
 ENGINEER PROJ NO:
 KU18.1051.00
 OWNER PROJ NO:
 SHEET NUMBER:
 10 of 13

TWO WAY CROSSING SHOWN FOLLOW PLAN LAYOUT FOR GIVEN INTERSECTION

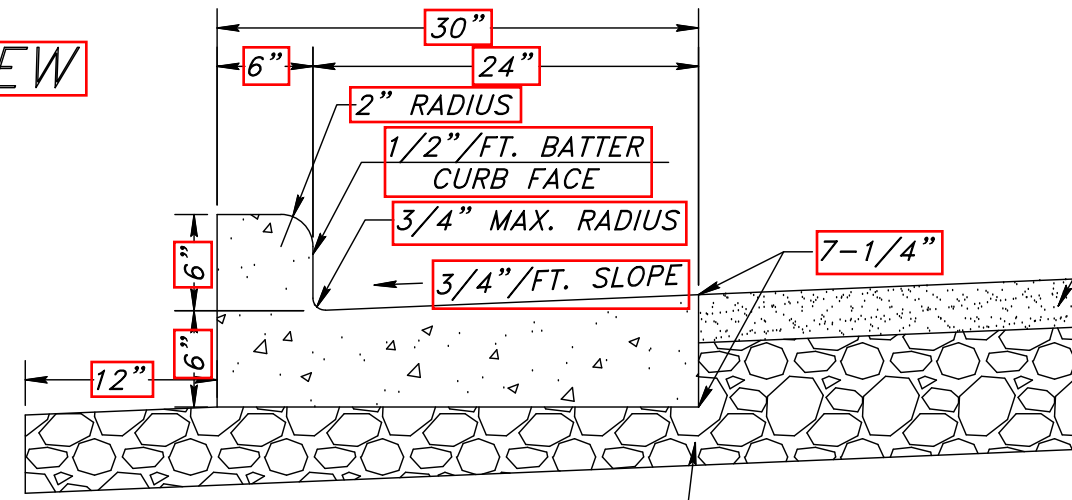


SIDEWALK RAMP DETAILS

REQUIRED AT ALL INTERSECTIONS AND WHERE CALLED OUT ON PLANS NOT TO SCALE



SECTION VIEW

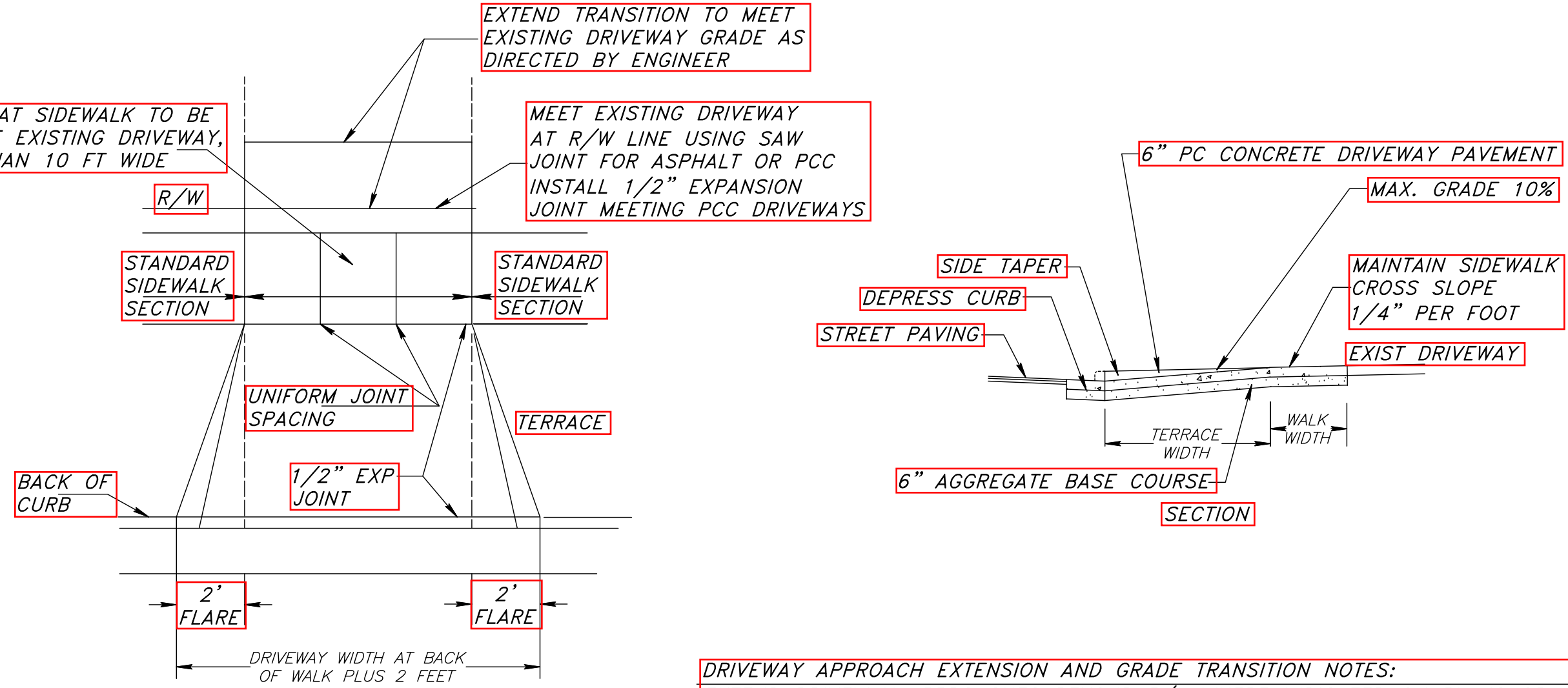


STANDARD TYPE D CURB AND GUTTER

ADJACENT TO ASPHALT PAVEMENT

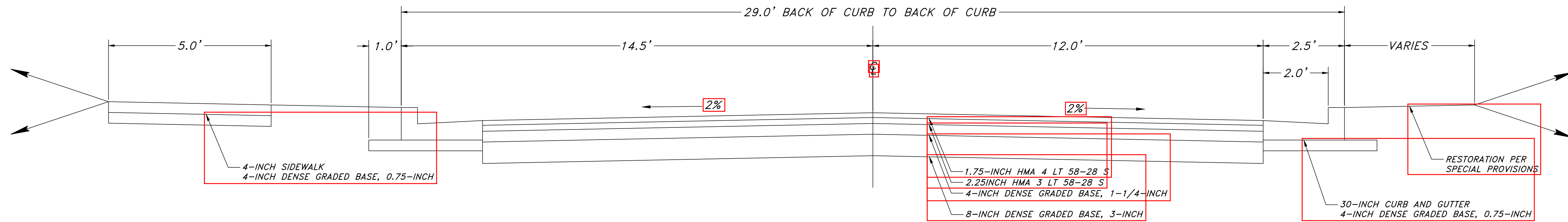
NOT TO SCALE

DRIVEWAY WIDTH AT SIDEWALK TO BE THE SAME AS THE EXISTING DRIVEWAY, BUT NOT LESS THAN 10 FT WIDE



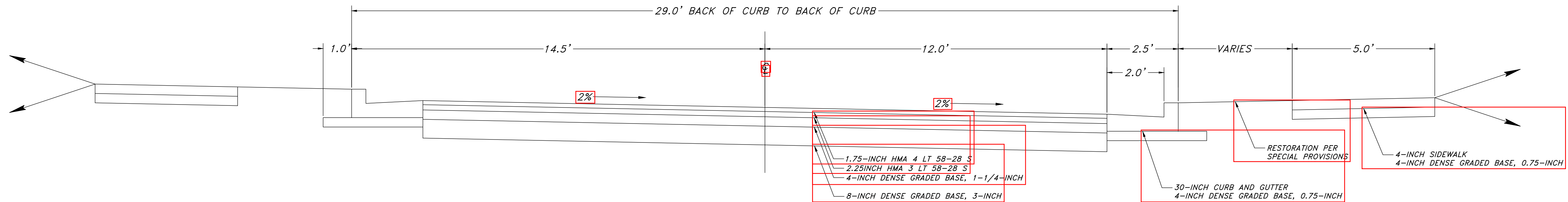
DRIVEWAY APPROACH EXTENSION AND GRADE TRANSITION NOTES:
 EXTEND DRIVEWAY APPROACHES BEYOND P/L WHERE INDICATED ON PLANS OR AS DIRECTED BY THE ENGINEER TO TRANSITION TO THE GRADE OF THE EXISTING DRIVEWAY
 APPROACH EXTENSIONS BEYOND THE BACK OF WALK WILL REPLACE THE EXISTING CONCRETE, ASPHALT OR GRAVEL SURFACE IN KIND WITH THE FOLLOWING MINIMUM THICKNESS
 PC CONCRETE: 6" PCC DRIVEWAY PAVEMENT ON 6" AGGREGATE BASE
 ASPHALT: 2" ASPHALT SURFACE COURSE ON 9" AGGREGATE BASE
 GRAVEL: 9" AGGREGATE BASE COURSE

DRIVEWAY PAVEMENT DETAILS



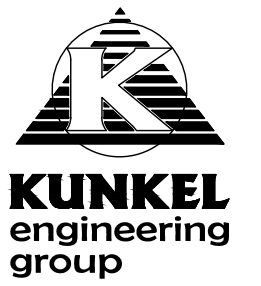
EDISON STREET TYPICAL CROSS-SECTION

2% CROWN
STA: 0+22 TO STA: 1+52.75



EDISON STREET TYPICAL CROSS-SECTION

+2% LT, -2% RT
STA: 1+97.18 TO STA: 3+82.90



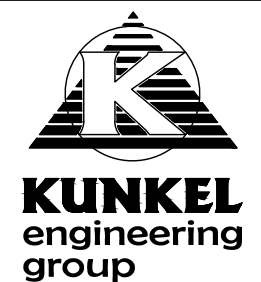
107 Parallel Street
 Beaver Dam, WI 53916
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DRAWN BY:	8/2018	JKB	8/2018
CHECKED BY:	###	###	###
APPROVED BY:	###	###	###
1st REVISION BY:	###	###	###
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City of Waterloo, WI
 2019 Street and Utility Reconstruction
 Street Detail Drawings and Typical Cross-Section

SCALE AS SHOWN:
 ENGINEER PROJ NO:
 KU18.1051.00
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 SHEET NUMBER:
 11 of 13

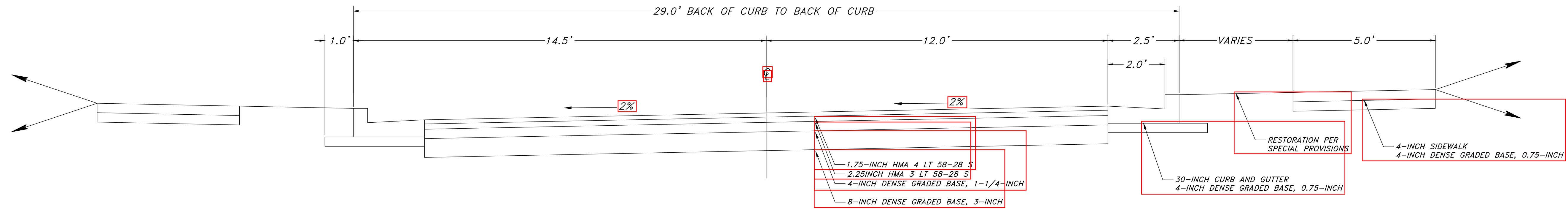


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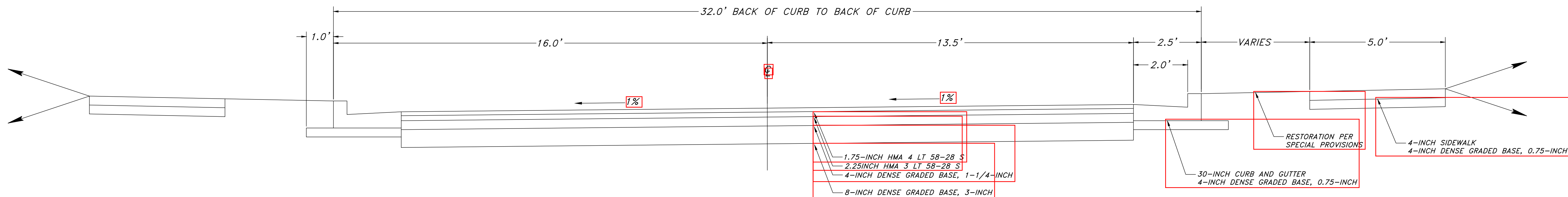
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UKB	8/2018	###	8/2018	###
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 2nd REVISION BY: # # # #
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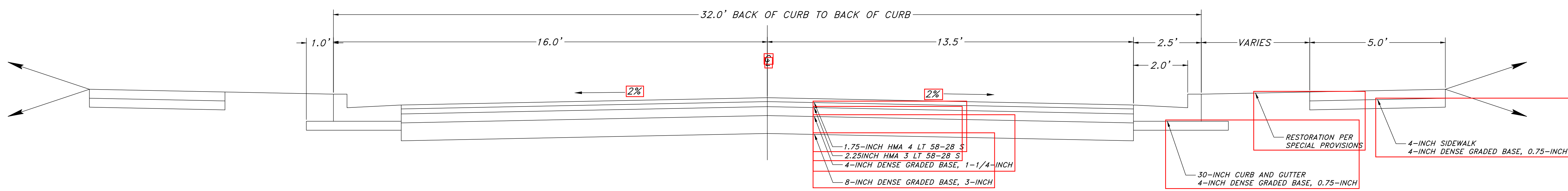
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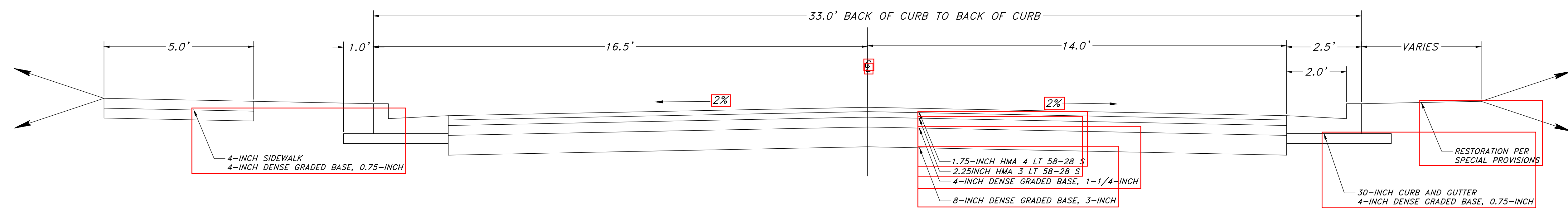
EDISON STREET TYPICAL CROSS-SECTION
 -2% LT, +2% RT
 STA: 3+82.90 TO STA: 5+79.24



EDISON STREET TYPICAL CROSS-SECTION
 -1% LT, +1% RT
 STA: 6+54.18 TO STA: 9+82.02



EDISON STREET TYPICAL CROSS-SECTION
 2% CROWN
 STA: 10+39.78 TO STA: 14+16.04



FRANKLIN STREET TYPICAL CROSS-SECTION
 2% CROWN

City of Waterloo, WI
 2019 Street and Utility Reconstruction
 Typical Cross-Section

SCALE AS SHOWN:

ENGINEER PROJ NO:
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OWNER PROJ NO:

SHEET NUMBER:

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STANDARD EROSION CONTROL PROVISIONS

General Notes for Construction Erosion Control:

1. Refer to WDNR's Stormwater web page of technical standards @ <http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm#Construction>
2. Construct and maintain all erosion and sediment control measures in accordance with the WDNR's Stormwater web page of technical standards @ <http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm#Construction>
3. Install sediment control measures prior to any grading or disturbance of existing surface material. Adjust all sediment control measures to meet field conditions at the time of construction.
4. Provide weekly inspection and maintenance of all sediment control structures to ensure intended purpose is accomplished. Maintain documentation of inspections per the project special provisions. Sediment control measures are to be in working condition at the end of each working day.
5. In addition to weekly inspections, inspect sediment control structures for integrity after any rainfall of 1/2" or greater and correct any damaged structures.
6. Do not remove sediment control measures until the areas served have established vegetative cover.
7. Collect tracked soil from paved roads located near the construction site. All streets shall be swept and cleared of all dirt and debris on a daily basis.
8. When Discharging trench water refer to WDNR Technical Standard 1061 for de-watering in order to properly filter water in a settling basin or filtering device prior to release into a storm sewer or stream.
9. Protect storm sewer section basins from run-off with fabric per WDNR Tech Std 1060.
10. Prevent overland flow from leaving the work site by installing straw bale or fabric filter fencing parallel to the contours located downhill from the work area.
11. Sediment control for pipeline construction.
 - a. Place excavated trench material on the high side of the trench.
 - b. Backfill, compact, and stabilize the trench immediately after pipe installation.
12. Temporary seeding areas which land-disturbing activities will not be performed for a period greater than 30 days and requires vegetative cover for less than one year. Permanent seeding and stabilization should be applied within a week of final grade being established.
13. All land disturbance and stabilization for this project will occur between April 15th and September 15th. Warm season seeding can be used during this time period. Should seeding need to be completed after November 15th, a dormant seed must be used. All seeding construction shall conform to WDNR Conservation Practice Standard 1059.

PROJECT SPECIFIC EROSION CONTROL PLAN
City of Waterloo – 2019 Street and Utility Reconstruction

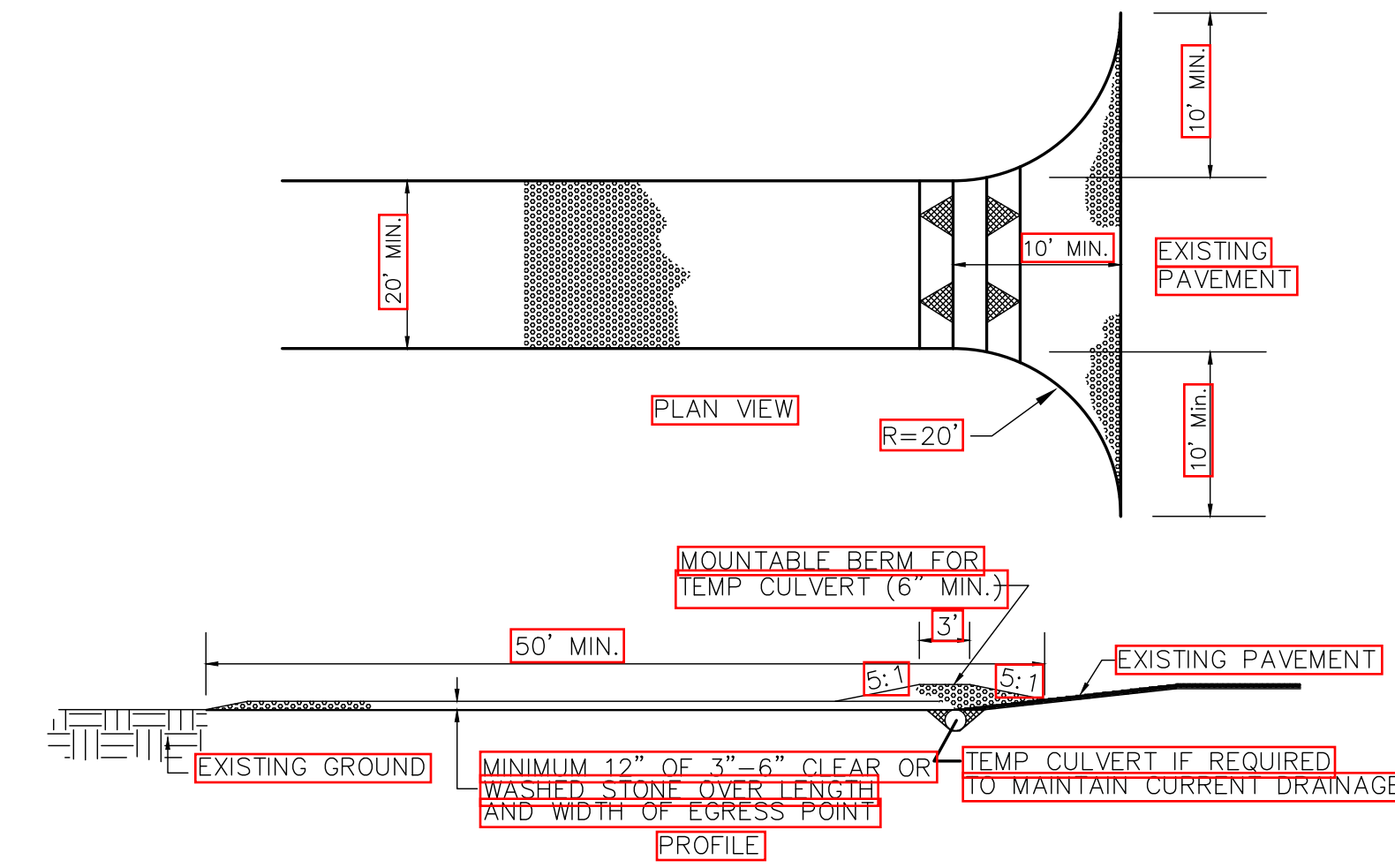
Edison Street and Franklin Street

A tracking pad must be installed per erosion control plan details on each site prior to construction, and maintained through final stabilization.

Inlet protection must be installed on all existing inlets per the Erosion Control Plan and Details Prior to Construction. Inlet protection shall be installed on all new inlets as they are installed. The locations of existing inlets needing inlet protection are shown on plan pages 2-8.

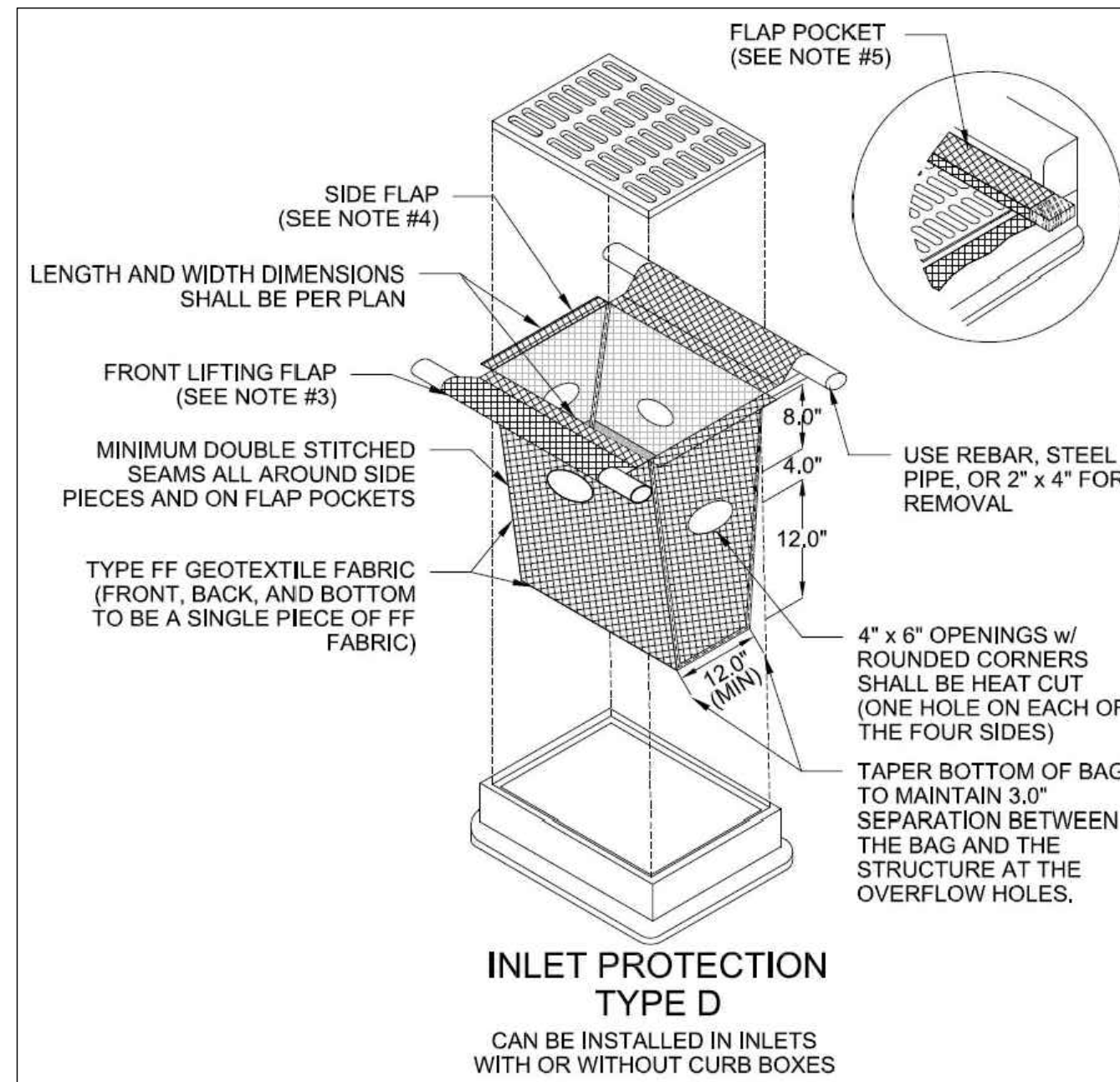
Conform To Applicable WDNR Technical Standards

- 1052 Non Channel Erosion Mat
- 1057 Stone Tracking Pad
- 1058 Mulching
- 1059 Seeding
- 1060 Inlet Protection
- 1061 De-Watering
- 1067 Grading Practices for Erosion Control
- 1068 Dust Control



- 1) LOCATION – A TRACKING PAD SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.
- 2) SURFACE WATER – ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND MINIMUM OF 6" OF STONE OVER THE PIPE. TO BE SIZED ACCORDING TO THE DRAINAGE. 8" MINIMUM WILL BE REQUIRED.
- 3) MAINTENANCE – TRACKING PAD SHALL BE INSPECTED DAILY AND REPAIRED OR REPLACED IMMEDIATELY.
- 4) REMOVAL – SITE STABILIZED/SEEDED/PAVED AS PER SPECIAL PROVISIONS.

TRACKING PAD / STABILIZED CONSTRUCTION ENTRANCE



Required Storm Sewer

Inlet Protection Type D

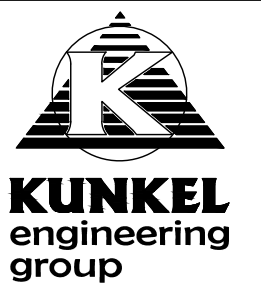
Inlet Protection Type D shall be installed in accordance with WDNR Technical Standards 1060. Inlet protection is to be installed on all existing and installed inlets in the project limits as shown on the paving plans or as directed by owner/engineer. Inlet protection for new or replacement inlets is to be installed as they are installed.

Notes:

1. Taper bottom of bag to maintain three inches of clearance between bag and structure, measured from the bottom of the overflow openings to the structure wall.
2. Geotextile fabric type FF for flaps, top and bottom of outside of filter bag.
3. Front lifting flap is to be used when removing and maintaining filter bag.
4. Side flaps shall be a maximum of two inches long, fold the fabric over and reinforce with multiple stitches.
5. Flap pockets shall be large enough to accept 2"x4". The rebar, steel pipe, or wood shall be installed in the rear flap and shall not block the top half of the curb face opening.

Maintenance Notes:

1. When removing or maintaining inlet protection, care shall be taken so that the sediment trapped in the fabric does not fall into the structure. Material that has fallen into the inlet shall be immediately removed.



107 Parallel Street
Beaver Dam, WI 53916
(920)356-9447
Fax (920)356-9454

DESIGNED BY:	DATE:	INITIALS:	DATE:	INITIALS:
DRAWN BY:	8/20/18	JKB	8/20/18	JKB
CHECKED BY:	###	###	###	###
APPROVED BY:	###	###	###	###
1st REVISION BY:				
2nd REVISION BY:				
ASBUILT BY:				

NOTE:
1. GENERAL UTILITIES AND/OR STRUCTURES BOTH ABOVE AND BELOW GROUND HAVE BEEN LOCATED ON THESE PLANS. THESE LOCATIONS ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. THE USER SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND/OR STRUCTURES. WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE ASSUMED TO BE A PART OF THE PROJECT. ANY STREET RIGHT-OF-WAY LINES OR PROPERTY LINES SHOWN ON THESE PLANS ARE ONLY GENERAL APPROXIMATIONS OF SAID LINES AND ARE NOT INTENDED TO BE USED BY ANY NON-CITY PERSONNEL FOR ANY PURPOSE WITHOUT FIRST CONSULTING WITH THE CITY ENGINEER OR THE PROJECT ENGINEER ON KUNKEL ENGINEERING GROUP.

City of Waterloo, WI
2019 Street and Utility Reconstruction
Erosion and Sediment Control Details

SCALE AS SHOWN:
ENGINEER PROJ NO:
KU18.1051.00
OWNER PROJ NO:
SHEET NUMBER:
13 of 13

City of Waterloo Road / Utility Out-Year Project Plan

As Updated after Passage of the 2019 budget

Year	Location	Description	Funding	Notes	Non-Utility Municipal Share Estimate
2019	Edison Street and Franklin Street	Reconstruct street, sidewalk & utilities			Nov 2018 est. \$687,665
2020	No Project (as determined by of 2019 budget approval)		road repair dollars used to pay for 2019 project		-
2021	Adams St	Full reconstruct using Railroad Ave as design template	Special Assessment?		Oct 2018 est. \$393,936
2022	tbd by City Council		Special Assessments?		unknown
2023	tbd by City Council		Special Assessments?		unknown
2024	tbd by City Council		Special Assessments?		unknown

2017 out-year project recommendations from Public Works Director

Year	Location	Funding	Notes	Estimate
	Jefferson Street			
	Minnehaha; Riverside & Streator			
	South Van Buren and West Milwaukee			
	Taylor Street & North Van Buren			
	Rood and Pierce			
	Leschinger			
	Indian Hills			
	West Riverside Drive			
	Waterloo Road			



2017 Roadway Ratings

Monday, July 31, 2017

PASER RATING LEGEND

	10 Excellent		5 Fair
	9 Excellent		4 Fair
	8 Very Good		3 Poor
	7 Good		2 Very Poor
	6 Good		1 Failed

